

World checklist of hornworts and liverworts

Lars Söderström^{1,*}, Anders Hagborg^{2,*}, Matt von Konrat^{2,*},
Sharon Bartholomew-Began³, David Bell⁴, Laura Briscoe², Elizabeth Brown^{5,†},
D. Christine Cargill⁶, Denise P. Costa⁷, Barbara J. Crandall-Stotler⁸,
Endymion D. Cooper⁹, Gregorio Dauphin¹⁰, John J. Engel², Kathrin Feldberg¹¹,
David Glenny¹², S. Robbert Gradstein¹³, Xiaolan He¹⁴, Jochen Heinrichs¹¹,
Jörn Hentschel¹⁵, Anna Luiza Ilkiu-Borges¹⁶, Tomoyuki Katagiri¹⁷,
Nadezhda A. Konstantinova¹⁸, Juan Larraín², David G. Long¹⁹, Martin Nebel²⁰,
Tamás Pócs²¹, Felisa Puche²², Elena Reiner-Drehwald²³, Matt A.M. Renner⁵,
Andrea Sass-Gyarmati²¹, Alfons Schäfer-Verwimp²⁴, José Gabriel Segarra Moragues²⁵,
Raymond E. Stotler^{8,†}, Phiangphak Sukkharak²⁶, Barbara M. Thiers²⁷,
Jaime Uribe²⁸, Jiří Váňa²⁹, Juan Carlos Villarreal³⁰, Martin Wigginton³¹,
Li Zhang³², Rui-Liang Zhu³³

1 Department of Biology, Norwegian University of Science and Technology, N-7491 Trondheim, Norway
2 Department of Science and Education, Field Museum, 1400 South Lake Shore Drive, Chicago, IL 60605–2496, United States of America **3** Department of Biology, West Chester University, West Chester, PA 19383, United States of America **4** Department of Botany, University of British Columbia, 6270 University Boulevard, Vancouver, BC, V6T 1Z4, Canada **5** Royal Botanic Gardens and Domain Trust, Mrs Macquaries Road, Sydney NSW2000, Australia **6** Centre for Australian National Biodiversity Research, Australian National Herbarium, GPO Box 1600, Canberra, ACT 2601, Australia **7** Instituto de Pesquisas Jardim Botânico do Rio de Janeiro, Rua Pacheco Leão 915, 22460-030, Rio de Janeiro, RJ, Brazil **8** Department of Plant Biology, Southern Illinois University, Carbondale, Illinois 62901-6509, United States of America **9** CMNS-Cell Biology and Molecular Genetics, 2107 Bioscience Research Building, University of Maryland, College Park, MD 20742-4451, United States of America **10** Apartado 5-1500, Acosta, Costa Rica **11** Systematic Botany and Mycology, Ludwig Maximilian University of Munich, Menzinger Str. 67, 80638 Munich, Germany **12** Allan Herbarium, Landcare Research, P O Box 69-040, Lincoln 7608, New Zealand **13** Muséum National d'Histoire Naturelle, Department Systématique et Evolution, C.P. 39, 57 Rue Cuvier, 75231 Paris 05, France **14** Botany Unit, Finnish Museum of Natural History, University of Helsinki, P.O. Box 7, Helsinki FI-00014, Finland **15** Department of Systematic Botany with Herbarium Haussknecht and Botanical Garden, Friedrich Schiller University, Fürstengraben 1, 07737 Jena, Germany **16** Museu Paraense Emilio Goeldi, Coordenação de Botânica, Av. Magalhães Barata 376, 66040-1 70 Belem, Para, Brazil **17** Department of Biological Science, Graduate School of Science, Hiroshima University, Kagamiyama 1–3–1, Higashihiroshima-shi, Hiroshima 739–8526, Japan **18** N.A. Avrorin Polar-Alpine Botanical Garden–Institute of Kola SC RAS, 184236 Kirovsk-6, Russia **19** Royal Botanic Garden, Edinburgh EH3 5LR, United Kingdom **20** Staatliches

Museum für Naturkunde Stuttgart, Rosenstein 1, 70191 Stuttgart, Germany **21** *Botany Department, Institute of Biology, Eszterházy Károly College, Eger, Pf. 43, H-3301, Hungary* **22** *Departamento de Botánica, Facultad de Ciencias Biológicas, Universitat de València. C/ Dr. Moliner 50, E-46100, Burjassot (Valencia), Spain* **23** *Albrecht-von-Haller-Institut für Pflanzenwissenschaften, Department of Systematics, Biodiversity and Evolution of Plants, Untere Karspüle 2, 37073 Göttingen, Germany* **24** *Mittlere Letten 11, 88634 Herdwangen-Schönach, Germany* **25** *Centro de Investigaciones sobre Desertificación (CIDE-CSIC-UV-GV), C/ Carretera de Moncada-Náquera Km. 4.5, E-46113, Moncada (Valencia), Spain* **26** *Department of Biology, Faculty of Science, Burapha University, Mueang, 20131 Chonburi, Thailand* **27** *William and Lynda Steere Herbarium, The New York Botanical Garden, Bronx, New York 10458-5126, United States of America* **28** *Instituto de Ciencias Naturales. Universidad Nacional de Colombia. Apartado 7495, Bogotá D.C., Colombia* **29** *Department of Botany, Charles University, Benátská 2, CZ-128 01 Praha 2, Czech Republic* **30** *Department of Biology, Ludwig-Maximilians-Universität, Menzinger Str. 67, D-80638, München, Germany* **31** *36, Big Green, Warmington, Peterborough PE8 6TU, United Kingdom* **32** *Shenzhen Key Laboratory of Southern Subtropical Plant Diversity, FairyLake Botanical Garden, 160 Xianhu Rd., Liantang, Shenzhen 518004, Guangdong, China* **33** *Department of Biology, School of Life Sciences, East China Normal University, 3663 Zhong Shan North Road, Shanghai 200062, China*

* Editors

Corresponding author: *Lars Söderström* (lars.soderstrom@ntnu.no)

Academic editor: *Lyubomir Penev* | Received 20 June 2015 | Accepted 25 September 2015 | Published 29 January 2016

Citation: Söderström L, Hagborg A, von Konrat M, Bartholomew-Began S, Bell D, Briscoe L, Brown E, Cargill DC, Costa DP, Crandall-Stotler BJ, Cooper ED, Dauphin G, Engel JJ, Feldberg K, Glenn D, Gradstein SR, He X, Heinrichs J, Hentschel J, Ilkiu-Borges AL, Katagiri T, Konstantinova NA, Larraín J, Long DG, Nebel M, Pócs T, Felisa Puche F, Reiner-Drehwald E, Renner MAM, Sass-Gyarmati A, Schäfer-Verwimp A, Moragues JGS, Stotler RE, Sukkharak P, Thiers BM, Uribe J, Váña J, Villarreal JC, Wigginton M, Zhang L, Zhu R-L (2015) World checklist of hornworts and liverworts. *PhytoKeys* 59: 1–828. doi: 10.3897/phytokeys.59.6261

This checklist is dedicated to Elizabeth Brown and Ray Stotler, who sadly left us during our work with it.

“.....Charles Darwin wrote of his desire to provide financial support ‘for the formation of a perfect M.S. catalogue of all known plants’ (Darwin 1881, letter 13570). It is a personal embarrassment to me, and should be chastening to us all, that more than 120 years later we still have not delivered on that commitment.” (Crane 2004).

Abstract

A working checklist of accepted taxa worldwide is vital in achieving the goal of developing an online flora of all known plants by 2020 as part of the Global Strategy for Plant Conservation. We here present the first-ever worldwide checklist for liverworts (Marchantiophyta) and hornworts (Anthocerotophyta) that includes 7486 species in 398 genera representing 92 families from the two phyla. The checklist has far reaching implications and applications, including providing a valuable tool for taxonomists and systematists, analyzing phytogeographic and diversity patterns, aiding in the assessment of floristic and

taxonomic knowledge, and identifying geographical gaps in our understanding of the global liverwort and hornwort flora. The checklist is derived from a working data set centralizing nomenclature, taxonomy and geography on a global scale. Prior to this effort a lack of centralization has been a major impediment for the study and analysis of species richness, conservation and systematic research at both regional and global scales. The success of this checklist, initiated in 2008, has been underpinned by its community approach involving taxonomic specialists working towards a consensus on taxonomy, nomenclature and distribution.

Keywords

Marchantiophyta, Anthocerophyta, nomenclature, taxonomy

Introduction

The natural world is changing fast (Balmford et al. 2005). The Global Strategy for Plant Conservation (GSPC) was adopted by the Conference of Parties (COP) of the Convention on Biological Diversity (CBD) in April 2002 (<http://www.cbd.int/decision/cop/?id=7183>; accessed 2014.06.02). The Strategy set out 16 outcome-oriented targets that were to be achieved by 2010. The GSPC was designed as a framework for action to halt the loss of plant diversity. Target 1 of the Strategy was to complete “a widely accessible working list of all known plant species, as a step towards a complete world Flora” (Lughadha 2004). As early as 1881 Charles Darwin expressed a wish to have a catalogue of all known plants (Crane 2004). However, over 125 years later, this wish is not yet fulfilled. Without a working checklist, many of the other objectives in the GSPC cannot be met and botanists around the world cannot communicate about plants on a global basis (Crane 2004). A working list of known plant species is critical for (I) its underpinning role in the effective implementation of the other targets through provision of baseline information; (II) increasing the accessibility and use of accurate botanical name information for research, conservation and sustainable use; and (III) real-world politics and how taxonomists respond to the decisions of policy makers (Paton et al. 2008).

Version 1.0 of The Plant List (<http://www.theplantlist.org/>) was released in December 2010 aimed to be comprehensive for species of vascular plants (flowering plants, conifers, ferns and their allies) and of bryophytes (mosses, liverworts and hornworts), as a response to the 2010 Target 1 of the GSPC and to a clear global need for such data. The Plant List is a broad collaboration, coordinated by the Royal Botanic Gardens, Kew, and the Missouri Botanical Garden (MO), involving diverse partnerships. Paton (2013) noted The Plant List represents a work in progress with future versions planned to improve the quality of names and decrease the number of unresolved names. Target 1 has since been revised and agreed at the 10th COP of the CBD in Nagoya, Japan, with the goal of developing “an online flora of all known plants” by 2020 (<http://www.cbd.int/decision/cop/default.shtml?id=12283>; accessed 2014.06.02). Paton (2013) identified several factors that might assist in the implementation of the

revised target, stressing that achieving a working list for plant taxa worldwide was a vital step to an online flora.

Earlier, Paton et al. (2008) assessed the progress made at that time and discussed prospects for the completion of Target 1. Paton noted that good progress had been made in bryophytes (mosses, liverworts and hornworts), ferns and gymnosperms with widely accessible working lists either complete or almost so for those groups. For bryophytes alone, he tabulated 13,370 accepted species noting that the data was largely derived from Tropicos. However, although Tropicos is an indispensable reference for anyone dealing with bryophyte names and the database is very strong for mosses, the nomenclatural and auxiliary data for liverworts is less complete, especially for larger genera (von Konrat et al. 2008a). The lack of a central source providing a synthesis of nomenclatural data and global distributional data was the impetus toward developing the current checklist of liverworts and hornworts (von Konrat et al. 2008a, 2010d, Söderström et al. 2012e). Checklists are powerful and important tools that can integrate the almost overwhelmingly scattered information concerning taxonomy, systematics, nomenclature, distribution, and even frequency (Söderström et al. 2008).

Ecological and biological significance of liverworts and hornworts

Liverworts and hornworts (Figure 1) are of critical biological, ecological, and phylogenetic significance (e.g. Asakawa 1998, Longton 1992, Hallingbäck and Hodgetts 2000, Gradstein et al. 2001b, Wellman et al. 2003, Qiu et al. 2007). Liverworts are found on soil, rocks, and trees throughout the world, from coastal Antarctica to the tundra of the Northern Hemisphere, and from semi-arid areas of Australia to the Amazon rainforests (Hallingbäck and Hodgetts 2000). Although there are xero-tolerant taxa, the majority of liverworts are found in relatively humid and shaded terrestrial ecosystems (Gradstein and Costa 2003). Liverworts and hornworts are an important component of the vegetation in many regions of the world, constituting a major part of the biodiversity in moist forest, wetlands, mountain, and tundra ecosystems (Hallingbäck and Hodgetts 2000).

Liverworts, hornworts and mosses offer microhabitats that are critical to the survival of a tremendous diversity of organisms such as single-celled eukaryotes, protozoa, and numerous groups of invertebrates (Gerson 1982). Their structural contribution to levels of diversity might be as significant as that of vascular plants, albeit at a smaller scale (von Konrat et al. 2008a). These plants are also important environmental and ecological indicators (Rao 1982, Pitcairn et al. 1995, Gradstein et al. 2001b, Giordano et al. 2004). Liverworts, in concert with mosses and hornworts, play a significant role in the global carbon budget (O'Neill 2000) and CO₂ exchange (De Lucia et al. 2003), plant succession (Cremner and Mount 1965), net production and phytomass (Frahm 1990), nutrient cycling (Coxson 1991), and water retention (Pócs 1980a, Gradstein et al. 2001b). These groups of land plants also have been used as indicators of past climate change, to validate climate models, and as potential indicators of global warming (Gignac 2001, Tuba et al. 2011).

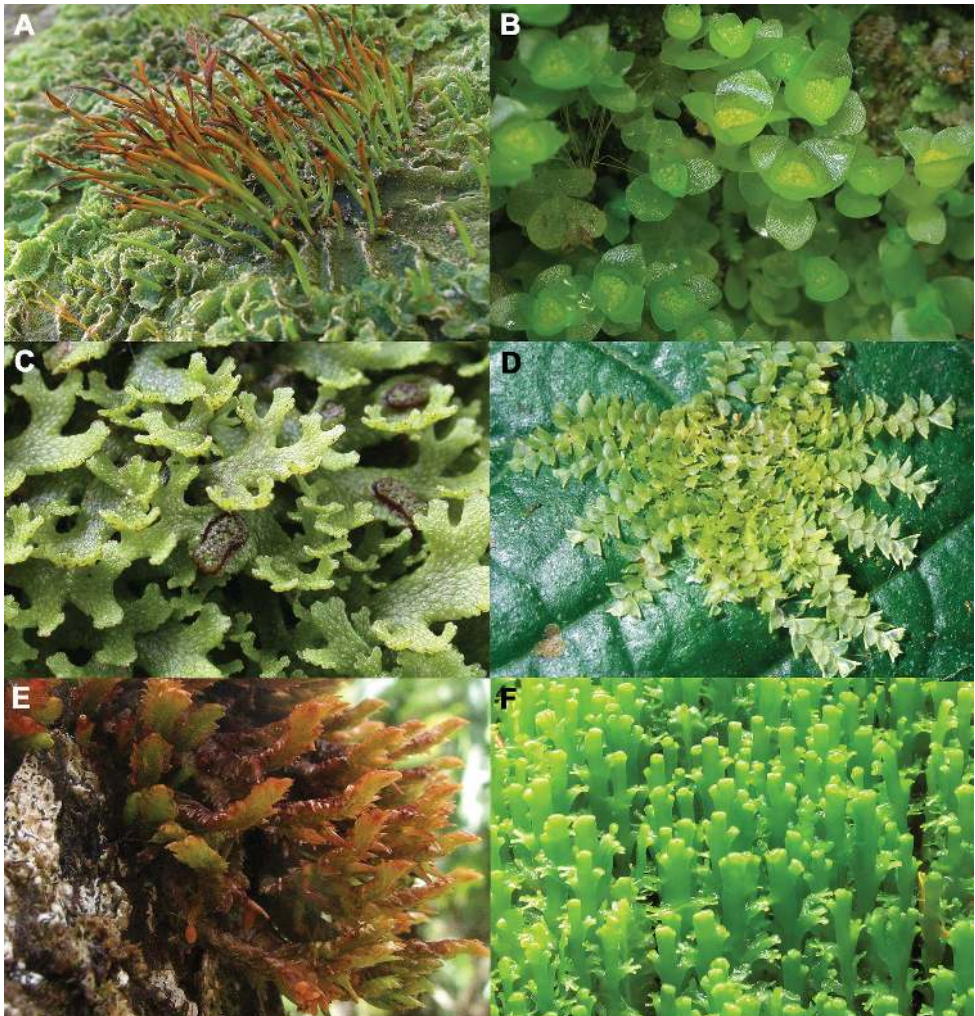


Figure 1. Habit images of selected lineages of Anthocerotophyta (hornworts) and Marchantiophyta (liverworts). **A** *Phaeomegaceros squamuliger*, photo by J. Hollinger **B** *Haplomitrium mnioides*, photo by L. Zhang **C** *Conocephalum japonicum*, photo by D. G. Long **D** *Colura vitiensis*, photo by T. Pócs **E** *Pleurozia gigantea*, photo by L. Söderström **F** *Riccardia spegazziniana*, photo by Juan Larraín.

Species numbers

There are estimated to exist only 215 hornwort species. By comparison estimates of liverwort species richness have varied considerably, by as much as 50%, with estimates ranging from 4,500 to 9,000 (e.g. Pearson 1995, Forrest et al. 2006). In the last decade or so estimates in the range of 5,000 to 6,000 liverwort species have been widely accepted (e.g. Gradstein and Costa 2003, Gradstein and Ilkiu-Borges 2009, Heinrichs et al. 2007). von Konrat et al. (2010a) provided a mean estimate of 7,500

for the number of liverwort species based on estimating rates of synonymy in a sample of recently monographed and revised taxa. A standardized global worldwide liverwort checklist with strong community participation, as presented here, coupled with the critical need for ongoing monographs and revisions, will aid in arriving at clearer estimates of liverwort and hornwort diversity. Significantly, a list of standardized names reviewed by taxonomic experts will enable more meaningful geographical and biogeographical species comparative studies. The global checklist of accepted liverwort and hornwort taxa has vast potential, not only in aiding our understanding of liverwort diversity, patterns, and processes, but also to the broader biological community (von Konrat et al. 2008a).

Below we provide context to the worldwide checklist, including a brief historical account and current informational resources, structure and layout, systematic and classification concepts, and methodology, including a brief overview of the underlying data set and nomenclatural elements.

Major historical works

Schuster (1966d) has provided a detailed account on the history of hepaticology, up to the first half of the 20th century. Earlier, Verdoorn (1934c) also outlined a valuable historical review of important figures in hepaticology. In the early 19th century, possibly the two most influential persons who provided an early framework for taxonomic concepts were W.J. Hooker and G. Raddi. During the middle of the 19th century C.G. Nees von Esenbeck, C.M. Gottsche and J.B.W. Lindenberg provided vastly significant contributions towards developing a classification framework. Frahm and Eggert (2001) provided a brief biography of these workers. This was later followed by R. Spruce and the Austrian-born H. Leitgeb in the second half 19th century. Leitgeb in particular was instrumental in liverwort plant morphology and anatomy including a six part treatise, “Untersuchungen ueber die Lebermoose”, from 1874 to 1881. Towards the end of 19th century and early 20th century V. Schiffner, F. Stephani, and A. Evans were prominent hepaticologists. In the first half of the 20th century A. Evans, H. Buch, F. Verdoorn, and K. Müller (Frib.) were leading influential hepaticologists. In the second half of the 20th century, R. Grolle and R.M. Schuster were of extraordinary influence in working towards contemporary classification schemes. Many of these groundbreaking concepts still serve the foundation from which our current classification scheme is derived. R.M. Schuster’s major contribution to botany and hepaticology lies in the astounding new diversity of liverworts he added to our knowledge. He described a staggering 463 species, 83 genera and 15 families new to science. It is difficult to name another contemporary botanist who discovered this much new diversity of a major clade of land plants (Qiu et al. 2013). R.M. Schuster’s contribution to botany went beyond hepatics. He was one of the first botanists who recognized the importance of Wallace’s Line in plant biogeography, separating Australia of Gondwanaland from Southeast Asia of Laurasia (Cronquist 1988).

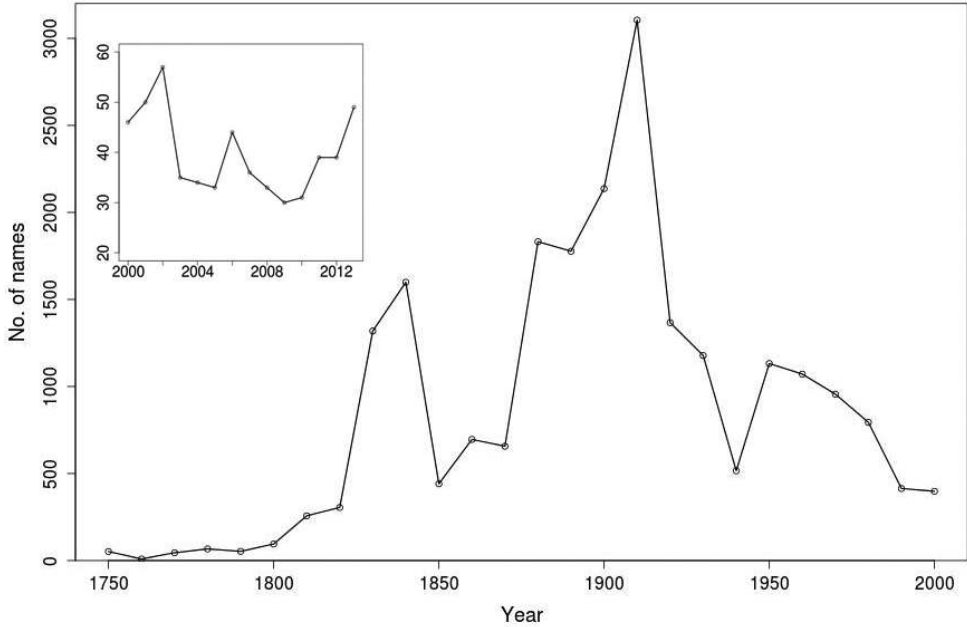


Figure 2. Number of novel liverwort species, excluding new combinations, which have been described over the last 250 years, with an inset of the number described from 2001–2012.

Figure 2 depicts the number of novel liverwort species, excluding new combinations that have been described over the last 250 years. The first major peak corresponds to the works of several early 19th century botanists, including *Synopsis Hepaticarum* by Gottsche, Lindenberg, and Nees (1844–1847). The three decades leading into, but prior to the highest peak, between 1860 and 1890, correspond to publications by a number of prominent bryologists including W. Mitten, J.D. Hooker, T. Taylor, and V. Schiffner. The second and highest peak of almost 1,200 names, in the early 1900s corresponds largely to the plethora of taxa described by F. Stephani (1898–1924) in his monumental work *Species Hepaticarum*. The periods of highest rates of new species described in the 1830s and around 1900 are the same for seed plants (Mutke and Barthlott 2005). The third peak over the four decades between 1950 and 1980 can be attributed mainly to the works of R.M. Schuster, H. Inoue, and S. Hattori. H. Inoue and S. Hattori were influential on large species-rich genera such as *Plagiochila*, *Frullania*, and *Porella*. The decline in newly described species since 1970 does not necessarily translate to the conclusion that taxonomists are closer to discovering all known species. The almost 200 novel liverwort species that have been described in the past six years alone still represent a significant number, considering the relatively few liverwort taxonomists and monographers. Moreover, bryological exploration has been very uneven in many parts of the world. For example, many areas of the Neotropics still remain without a single bryophyte record (Gradstein et al. 2001a). Paradoxically, scores of new species are still being discovered and described in relatively well-studied

areas such as New Zealand, e.g. over 50 new taxa since 2000 alone (e.g. Engel and Schuster 2001, Engel and Glenn 2008a, Renner and de Lange 2011, von Konrat et al. 2012b). Recent attention to cryptic speciation in bryophytes is also revealing novel liverwort species (e.g. Szweykowski et al. 2005). The combination of collecting in yet-to-be explored areas, the continued discovery of species in well-studied regions, and an increased understanding of the biology of liverworts (including cryptic speciation), will lead to a significant number of newly discovered species in the foreseeable future. The corollary of this, coupled with increased monographic and revisional work, will be the increased discovery and the unravelling of synonymy.

Contemporary resources

Data availability and information needs associated with liverworts and hornworts have been reviewed extensively by von Konrat et al. (2008a, 2010a). A fundamental problem common to all nomenclatural indexing projects is the dispersed nature of the biological literature, some of which may date back over 250 years (Lughadha 2004). Our own data records, from 1990 to the present alone, indicate there are over 190 periodical titles and non-serials in which liverwort nomenclatural novelties were published. The most useful and successful web-accessible bryophyte nomenclatural database is Tropicos (<http://www.tropicos.org>), which offers name data with references and type information as well as links to specimen data of its holdings. Tropicos has therefore become an indispensable reference for anyone dealing with bryophyte names. However, as stated above, the database is particularly strong for mosses and far less comprehensive for liverworts. Moreover, Tropicos does not prescribe taxonomic disposition of names, i.e., there is no attempt to adopt a single consistent view on the status of any particular name (Lughadha 2004, von Konrat et al. 2008a).

A major nomenclatural work is the *Index Hepaticarum* (<http://www.ville-ge.ch/musinfo/bd/cjb/hepatic/index.php>), which includes all effectively published liverwort epithets spanning 12 volumes with the closing date of 1973. The indices were prepared as a purely nomenclatural resource and did not claim to express any particular taxonomic concept. Recently, Crosby and Engel (2006) provided an equally valuable nomenclatural resource and catalog of names at all ranks for liverworts and hornworts published during 1974 to 2000. Subsequently, indices of the citations for names published for bryophytes have been compiled for the years 2001–2004 (Crosby and Magill 2005) and 2005 (Crosby and Magill 2006). The Early Land Plants Today initiative has continued this series (von Konrat et al. 2010c, Söderström et al. 2012b, 2014).

The application of molecular phylogenetics continues to generate new insights into the evolutionary history of liverworts and hornworts. In recent years, inferences made from these phylogenies have especially revolutionized liverwort classification (Crandall-Stotler et al. 2009). Yet, the reconstruction of the phylogenetic history of the Marchantiophyta and Anthocerotophyta remains an ongoing effort and the classification is fluid (von Konrat et al. 2010a). The current checklist largely follows the comprehensive

phylogenetic liverwort classification scheme provided by Crandall-Stotler et al. (2009) and the hornwort classification scheme of Stotler and Crandall-Stotler (2005). Thus the checklist largely adheres to their higher classification namely from class to suborder, and the majority of family and genera arrangements provided therein. However, there are some notable exceptions, especially in the systematic treatment of liverworts, which largely either reflect publications subsequent to 2009, or are a slight departure in taxonomic opinion based on earlier works, e.g. the concepts of Saccogynaceae and Stephaniellaceae depart from Crandall-Stotler et al. (2009). Since 2010 there have been a number of realignments and novel hypotheses proposed that were generated from conclusions based on molecular evidence which have influenced the systematic treatment presented here. These include, for example, Adelanthaceae (e.g. Konstantinova and Vilnet 2009, Feldberg et al. 2010b, 2010a, Söderström et al. 2010b, Vilnet et al. 2010), Anastrophyllaceae (e.g. Söderström et al. 2010b), Gymnomitriaceae (e.g. Vilnet et al. 2007a, 2010, Váša et al. 2010b, Shaw et al. 2015), Lepidoziaceae (Cooper 2013), Lophocoleaceae (Söderström et al. 2013b), and Scapaniaceae (e.g. Vilnet et al. 2010, Heinrichs et al. 2012a). In all cases, any such departures, new families, or realignments are noted and very briefly discussed throughout the checklist. As noted by Crandall-Stotler et al. (2009) many small families still remain to be investigated using molecular data, and many of the large families and genera that have been sampled appear to be either polyphyletic or paraphyletic.

The systematic treatment as outlined here also includes the addition of subfamily and infrageneric classification; ranks not presented by Crandall-Stotler et al. (2008b, 2009). Although there are arguably a number of ambiguous placements, especially at the infrageneric rank, and there remain many areas of contention, particularly at the familial and generic level, the systematic treatment itself serves as an excellent synopsis of contemporary taxonomic opinion, including infrageneric ranks. The infrageneric treatments will also aid future efforts in providing a taxonomic framework that will be particularly useful for extremely large genera. In large part, the infrageneric treatments only deal with those taxa that represent phylogenetic clades with strong support. Care has been taken to reduce ambiguity and those taxa where infrageneric placement is weak or without evidence are simply listed under the genus and not placed systematically.

Structure and format of the checklist

The checklist is presented in a taxonomic framework as outlined above with four main sections. The first is arranged systematically with taxa ordered alphabetically within the nearest higher rank. A brief discussion for selected families is provided in the main body of the text under the respective families. This does not appear uniformly for all families, but typically for larger more complicated families. Rather, a brief description is provided mainly where concepts depart from Crandall-Stotler et al. (2009) or if new information has come to light since that publication. Subfamilies and infrageneric ranks have been incorporated where appropriate. However, if the subgeneric place-

ment is unclear the species are listed under “*Incertae sedis*”. From the rank of genus and below, all entries include a three star confidence ranking (described below), accepted taxon name, authority, abbreviated publication title, page number and date, which is cross-referenced to the full citation in the reference list, as well as the basionym if appropriate. A typical entry appears as follows:

*** *Oleolophozia* L.Söderstr., De Roo et Hedd., *Phytotaxa* 3: 50, 2010 (Söderström et al. 2010b).

*** *Oleolophozia perssonii* (H.Buch et S.W.Arnell) L.Söderstr., De Roo et Hedd., *Phytotaxa* 3: 51, 2010 (Söderström et al. 2010b). Bas.: *Lophozia perssonii* H.Buch et S.W.Arnell, *Bot. Not.* 97: 382, 1944 (Buch 1944).

There are comprehensive footnotes throughout the systematic section of the checklist. These are applied to selected names representing the rank of genus and below only. Footnotes without any literature citation represent observations from the authors of the respective family. Footnotes are wide ranging in their content. Generally, footnotes can be categorized into the following: i) general statements relating to taxonomic opinion, ii) comments on the type specimen, iii) comments about possible conspecificity, including citation of conflicting opinions, and iv) comment about species complexes.

This section is followed by a list of taxa in genera that we do not recognize. Those names represent taxa that have not been studied recently and have not been recognized in any recent treatment. However, many of those names are old and may gain priority over some recognized taxa once their identity is determined.

The next section is an alphabetical list of taxa of the ranks of species and below. The alphabetical list includes the confidence level, the taxon name and authority as well as a reference to the page of the corresponding entry in the systematic section. Thus, the alphabetical list provides a rapid gateway requiring no prior knowledge of higher taxonomy, but also serves as an index to the corresponding name in the systematic section that includes more detailed information.

The last section is a reference list where full bibliographic citations are given to all references for taxa included in the checklist. Titles and references have all been checked and verified, except in a few cases where we could not get hold of the publications.

Taxon confidence levels

Significantly, each accepted taxon is qualified using a three level ranking system that summarizes our knowledge about a taxon. The coding convention we are adopting largely follows that described by von Konrat et al. (2010d) using one to three stars, which has been applied to recent regional checklists produced by the Early Land Plants Today initiative, e.g. Söderström et al. (2010a, 2011a, 2011b, 2012g, 2013e). The conventions are briefly outlined below coupled with samples illustrating how these conventions are applied in practice. The application of a confidence level to a taxon's

status and whether it represents a genuine “species” that is reached through community consensus may go towards refining species estimates using an evidence-based approach (von Konrat et al. 2008a, 2008b). The confidence levels coupled with the detailed annotations in the form of footnotes may also provide a rapid assessment of taxa and help aid and drive future research into specific taxonomic or nomenclatural problems and issues.

The coding convention:

- * Serious doubts. There are doubts about the value of the taxon. It can be that there are conflicting views without any substantial evidence in any direction, conflicting views with substantiating evidence supporting one or both positions, or evidence pointing towards synonymization but it is premature to do it. We have adhered to the principle that it is better to keep a taxon with one star (and preferably a note) than to synonymize it too quickly. Example: *Bazzania asymmetrica* is conspecific with *Bazzania macgregorii* in Grolle (1968a), but Kitagawa (1979a) kept them separate. Example: *Nardia kamtschatica* may be conspecific with *Nardia assamica* (Váňa 1976c), but the type specimen could not be studied.
- ** Knowledge problem. The taxon is not well known by the person evaluating it. It may be a newly described species or a species originally not well described and not restudied recently. Example: *Jungermannia erectii* Ajit P.Singh et V.Nath was recently described and has not been independently studied by someone with a global overview. It is therefore difficult to evaluate.
- *** Accepted. A good taxon as currently understood based on personal experience or on taxonomic revisions that have been convincingly performed. Nomenclature and/or taxonomic position may, however, be questioned. Elements may be excluded from the taxon, but the taxon with the current type will still be accepted. Example: H. Bischler-Causse revised the genus *Marchantia* worldwide in a series of publications. Although she had a broad species concept, she also recognized infraspecific taxa. The taxa that she recognized without doubt should be accepted unless new evidence against it exists. Adopting a narrower species concept so that many of her subspecies are elevated to species does not change her view of what a good taxon is.

Methodology

The foundation of the checklist is in the underlying data set from which it is derived. It was briefly described by von Konrat et al. (2008a, 2010a). The working data sets now includes a bibliography of 25,000 publications; approximately 39,000 published liverwort names (including “accepted” taxa, synonyms, invalid and illegitimate names). The data quality and standards were outlined by von Konrat et al. (2010d). In summary, for authorities and for the citation abbreviations, we follow the standards set by the on-line version of *Authors of Plant Names* at the Royal Bota-

nical Gardens, Kew Website (<http://www.ipni.org>), with whom we collaborate closely and provide with updated data records. Publications and journal abbreviations follow *Taxonomic Literature: A selective guide to botanical publications and collections with dates, commentaries and types* (Stafleu and Cowan 1976–2009) (<http://www.sil.si.edu/digitalcollections/tl-2/search.cfm>) and *Botanico Periodicum Huntianum* Lawrence et al. (1968) (<http://huntbot.andrew.cmu.edu/HIBD/Departments/Databases.shtml>).

There has been an intense systematic effort focusing on data quality. In all but a few cases nomenclatural data has been verified against original publications. Söderström and Hagborg have checked and confirmed almost every original publication (three publications have not been available) for correct author, title and journal/book citation, date of publication as far as possible, page number for the protologue, and if the name is validly and legitimately published according to the International Code of Nomenclature for algae, fungi and plants (Melbourne Code; McNeill et al. 2012). Most significantly, the checklist has been community driven and collaborative. Broader participation by taxonomic specialists and regional experts has led to the checklist containing high quality data (cf. Söderström et al. 2008). Development of the checklist has included three international meetings (the first one in 2009) and generated 74 published notes on taxonomy and nomenclature under the auspices of the Early Land Plants Today initiative from 2012 to 2015. The series of meetings were instrumental in providing a framework for direct interaction with taxonomic experts, workshops reviewing names, and helping identify potential participants who were taxonomic experts in specific taxonomic groups, whether these were individual genera or entire families.

The notes, published in the journal *Phytotaxa*, have included 38 authors from 13 countries. These are the results of several years of revisions of taxonomic groups by taxonomic experts. Following these revisions and working with participants identifying nomenclatural and taxonomic problems that would impact the worldwide checklist, Söderström, Hagborg and von Konrat led editorial efforts in compiling manuscripts with baseline information and nomenclatural or taxonomic issues that required resolving. The work was then coordinated with the taxonomic experts who drove and led the process and often identified further issues. The series of notes on taxonomy and nomenclature of liverworts and hornworts provided updated nomenclature, corrected invalid and illegitimate names and described new taxa based on studies (mainly molecular) that did not draw nomenclatural conclusions. Those notes are all open access and any changes were effective immediately as the Melbourne Code of Botanical Nomenclature allows publishing on internet from 1 Jan. 2012 (Knapp et al. 2011).

This checklist builds on all published taxonomic and nomenclatural papers, that have come to our attention until June 30, 2015.

Summary statistics

We here present the first-ever worldwide checklist for liverworts (Marchantiophyta) and hornworts (Anthocerotophyta) that includes 8,078 taxa (species and below) in 7,486 species representing 398 genera, 92 families, 20 orders and 7 classes from the two phyla. The list includes 3,533 species with three stars, 2,988 species with two stars and 915 species with one star. The checklist also has extra utility in that it contains 3,106 references in the bibliography that serve as a powerful bibliographic resource for liverwort and hornwort systematic and taxonomic research.

Concluding remarks

The marked-up publication form of the current checklist by PhytoKeys provides a virtual instrument with a linked environment both internally (e.g. within an article) and externally (GBIF, IPNI, Tropicos, Wikispecies, etc.) that will undoubtedly help accelerate taxonomic research. The published checklist was the first phase in providing a worldwide list of accepted names. The next phase is to establish a generally recognized online repository to augment the huge underlying informational auxiliary data of over 25,000 publications, almost 39,000 published names, and the over 700,000 geographical observations. Several features of Web-based technology make it an essential tool, including 1) a vehicle to facilitate data access, 2) to unify the vastly scattered data on distributional information and nomenclature, 3) offering dynamic rather than static data in a searchable forum. The broader accessibility to the wealth of auxiliary data will help augment monographic and revisional work for many taxonomic groups, aid in identifying the need for increased floristic and survey work in many regions throughout the world, and have broad implications and applications beyond taxonomic research such as conservation science. The current Early Land Plants Today model has strong participation from taxonomic experts and an online resource will provide an opportunity to expand stakeholders to include ecologists, conservationists, scientists from other disciplines and general interest groups. However, such an effort can only be successful if it comes with sustained funding and infrastructure rather than depending on an ad hoc commitment by a few individuals, however dedicated.

The project will help augment monographic and revisional work for many taxonomic groups and aid in identifying the need for increased floristic and survey work in many regions throughout the world. Although there are many challenges ahead to obtain high quality data, quantifying global liverwort diversity is a tractable, multi-faceted and scientifically important goal, and everyone stands to gain by fostering this endeavour. The success of the project will lie on strong collaboration between institutions and the bryological community in general.

Taxonomic synopsis

Anthocerotophyta	27
Anthocerotopsida de Bary ex Jancz.....	27
Anthocerotidae Rosenv.	27
Anthocerotales Limpr.	27
Anthocerotaceae Dumort.....	27
<i>Anthoceros</i> L.....	27
<i>Folioceros</i> D.C.Bharadwaj.....	31
Dendrocerotidae R.J.Duff.....	32
Dendrocerotales Hässel.....	32
Dendrocerotaceae J.Haseg.	32
<i>Dendroceros</i> Nees.....	32
<i>Megaceros</i> Campb.	27
<i>Nothoceros</i> (R.M.Schust.) J.Haseg.....	35
<i>Phaeomegaceros</i> R.J.Duff.....	35
Phymatocerotales R.J.Duff.....	36
Phymatocerotaceae R.J.Duff.....	36
<i>Phymatoceros</i> Stotler.....	36
Notothylatidae R.J.Duff.....	36
Notothyladales Hyvönen et Piippo	36
Notothyladaceae Müll.Frib. ex Prosk.	36
Notothyladoideae Grolle	37
<i>Notothylas</i> Sull. ex A.Gray.....	37
Phaeocerotoidae Hässel	38
<i>Mesoceros</i> Piippo.....	38
<i>Paraphymatoceros</i> Hässel	38
<i>Phaeoceros</i> Prosk.	38
Leiosporocerotopsida Stotler et Crand.-Stotl.....	41
Leiosporocerotales Hässel.....	41
Leiosporocerotaceae Hässel ex Ochyra	41
<i>Leiosporoceros</i> Hässel.....	41
Marchantiophyta	41
Haplomitriopsida Stotler et Crand.-Stotl.	41
Haplomitriidae Stotler et Crand.-Stotl.....	41
Calobryales Hamlin	41
Haplomitriaceae Dědeček.....	41
<i>Haplomitrium</i> Nees	41
Treubiidae Stotler et Crand.-Stotl.....	42
Treubiales Schljakov	42
Treubiaceae Verd.....	42
<i>Apotreubia</i> S.Hatt. et Mizut.	42
<i>Treubia</i> K.I.Goebel.....	43

Jungermannopsida Stotler et Crand.-Stotl.....	43
Jungermanniiidae Engl.....	43
Jungermanniales H.Klinggr.....	43
Cephaloziineae Schljakov.....	43
Adelanthaceae Grolle.....	43
Adelanthoideae K.Feldberg.....	43
<i>Adelanthus</i> Mitt.....	44
<i>Pseudomarsupidium</i> Herzog.....	44
<i>Wettsteinia</i> Schiffn.....	45
Jamesonielloideae Inoue.....	45
<i>Cuspidatula</i> Steph.....	45
<i>Denotarisia</i> Grolle.....	46
<i>Nothostrepta</i> R.M.Schust.....	46
<i>Pisanoa</i> Hässel.....	46
<i>Protosyzygiella</i> (Inoue) R.M.Schust.....	46
<i>Syzygiella</i> Spruce.....	46
<i>Vanaea</i> (Inoue et Gradst.) Inoue et Gradst.....	49
Anastrophyllaceae L.Söderstr.....	49
<i>Anastrepta</i> (Lindb.) Schiffn.....	50
<i>Anastrophyllum</i> (Spruce) Steph.....	50
<i>Barbilophozia</i> Loeske.....	51
<i>Biantheridion</i> (Grolle) Konstant. et Vilnet.....	52
<i>Chandonanthus</i> Mitt.....	52
<i>Crossocalyx</i> Meyl.....	52
<i>Gymnocolea</i> (Dumort.) Dumort.....	52
<i>Hamatostrepta</i> Váňa et D.G.Long.....	52
<i>Hattoria</i> R.M.Schust.....	53
<i>Isopaches</i> H.Buch.....	53
<i>Neoorthocaulis</i> L.Söderstr.....	53
<i>Orthocaulis</i> H.Buch.....	53
<i>Plicanthus</i> R.M.Schust.....	54
<i>Schizophyllopsis</i> Váňa et L.Söderstr.....	54
<i>Schljakovia</i> Konstant. et Vilnet.....	54
<i>Schljakovianthus</i> Konstant. et Vilnet.....	55
<i>Sphenolobopsis</i> R.M.Schust. et N.Kitag.....	55
<i>Sphenolobus</i> (Lindb.) Berggr.....	55
<i>Tetralophozia</i> (R.M.Schust.) Schljakov.....	55
<i>Zantenia</i> (S.Hatt.) Váňa et J.J.Engel.....	56
Cephaloziaceae Mig.....	56
Alobielloideae R.M.Schust.....	56
<i>Alobiella</i> (Spruce) Schiffn.....	56
<i>Alobiellopsis</i> R.M.Schust.....	56
Cephalozioidae Müll.Frib.....	57

<i>Cephalozia</i> (Dumort.) Dumort.....	57
<i>Fuscocephaloziopsis</i> Fulford	59
<i>Nowellia</i> Mitt.....	61
Odontoschismatoideae H.Buch ex Grolle.....	62
<i>Odontoschisma</i> (Dumort.) Dumort.....	62
Schiffnerioideae R.M.Schust.....	64
<i>Schiffneria</i> Steph.....	64
Trabacelluloideae R.M.Schust.....	64
<i>Haesselia</i> Grolle et Gradst.....	64
<i>Trabacellula</i> Fulford	64
Cephaloziellaceae Douin.....	64
<i>Allisoniella</i> E.A.Hodgs.....	65
<i>Amphicephalozia</i> R.M.Schust.....	65
<i>Anastrophylopsis</i> (R.M.Schust.) Vána et L.Söderstr.....	65
<i>Cephalojonesia</i> Grolle.....	66
<i>Cephalomitron</i> R.M.Schust.....	66
<i>Cephaloziella</i> (Spruce) Schiffn.....	66
<i>Cephaloziopsis</i> (Spruce) Schiffn.....	72
<i>Chaetophyllopsis</i> R.M.Schust.....	72
<i>Cylindrocolea</i> R.M.Schust.....	72
<i>Gottschelia</i> Grolle.....	74
<i>Gymnocoleopsis</i> (R.M.Schust.) R.M.Schust.....	74
<i>Herzogobryum</i> Grolle.....	74
<i>Kymatocalyx</i> Herzog.....	74
<i>Lophonardia</i> R.M.Schust.....	75
<i>Nothogymnomitron</i> R.M.Schust.....	75
<i>Obtusifolium</i> S.W.Arnell.....	75
<i>Oleolophozia</i> L.Söderstr.....	75
<i>Phycolepidozia</i> R.M.Schust.....	75
<i>Protolophozia</i> (R.M.Schust.) Schljakov.....	75
Lophoziaceae Cavers.....	77
<i>Andrewsianthus</i> R.M.Schust.....	77
<i>Gerbildiella</i> Grolle.....	78
<i>Heterogemma</i> (Jørg.) Konstant. et Vilnet.....	78
<i>Lophozia</i> (Dumort.) Dumort.....	79
<i>Lophoziopsis</i> Konstant. et Vilnet.....	80
<i>Pseudocephaloziella</i> R.M.Schust.....	81
<i>Trilophozia</i> (R.M.Schust.) Bakalin.....	81
<i>Tritomaria</i> Schiffn. ex Loeske.....	82
Scapaniaceae Mig.....	82
<i>Diplophyllum</i> (Dumort.) Dumort.....	82
<i>Douinia</i> (C.E.O.Jensen) H.Buch.....	84
<i>Pseudotritomaria</i> Konstant. et Vilnet.....	84

<i>Saccobasis</i> H.Buch	85
<i>Scapania</i> (Dumort.) Dumort.	85
<i>Schistochilopsis</i> (N.Kitag.) Konstant.	92
Jungermanniiineae R.M.Schust. ex Stotler et Crand.-Stotl.	93
Acrobolbaceae E.A.Hodgs.	93
<i>Enigmella</i> G.A.M.Scott et K.G.Beckm.	93
Acrobolboideae R.M.Schust. ex Briscoe.	93
<i>Acrobolbus</i> Nees	93
Austrolophozioideae R.M.Schust. ex Crand.-Stotl.	96
<i>Austrolophozia</i> R.M.Schust.	96
<i>Goebelobryum</i> Grolle.	97
Lethocoloideae Grolle	97
<i>Lethocolea</i> Mitt.	97
Saccogynidioideae Crand.-Stotl.	97
<i>Saccogynidium</i> Grolle	97
Antheliaceae R.M.Schust.	98
<i>Anthelia</i> (Dumort.) Dumort.	98
Arnelliaceae Nakai	99
<i>Arnellia</i> Lindb.	99
Balantiopsidaceae H.Buch	99
<i>Acroscyphella</i> N.Kitag. et Grolle.	99
<i>Pseudoisotachis</i> Váňa	99
Balantiopsidoideae J.J.Engel et Váňa	99
<i>Balantiopsis</i> Mitt.	99
Isotachidoideae Grolle	101
<i>Isotachis</i> Mitt.	101
<i>Neesioscyphus</i> Grolle.	102
Ruizanthoideae R.M.Schust. ex J.J.Engel et G.L.Merr.	103
<i>Ruizanthus</i> R.M.Schust.	103
Blepharidophyllaceae R.M.Schust. ex J.J.Engel.	103
<i>Blepharidophyllum</i> Ångstr.	103
<i>Clandarium</i> (Grolle) R.M.Schust.	103
Calypogeiaceae Arnell	103
<i>Calypogeia</i> Raddi	103
<i>Eocalypogeia</i> (R.M.Schust.) R.M.Schust.	107
<i>Metacalypogeia</i> (S.Hatt.) Inoue.	107
<i>Mizutania</i> Furuki et Z.Iwats.	107
<i>Mnioloma</i> Herzog	107
Endogemmataceae Konstant.	109
<i>Endogemma</i> Konstant.	109
Geocalycaceae H.Klinggr.	109
<i>Geocalyx</i> Nees	109
Gymnomitriaceae H.Klinggr.	109

<i>Acrolophozia</i> R.M.Schust.	110
<i>Nanomarsupella</i> R.M.Schust. ex A.Hagborg	110
<i>Paramomitrium</i> R.M.Schust.	110
Gymnomitrioideae T.Jensen.....	110
<i>Cryptocoleopsis</i> Amakawa	110
<i>Gymnomitrium</i> Corda	110
<i>Marsupella</i> Dumort.	112
<i>Poeltia</i> Grolle.....	114
<i>Prasanthus</i> Lindb.	114
Nardioideae Váňa.....	114
<i>Nardia</i> Gray.....	114
Gyrothyraceae R.M.Schust.	115
<i>Gyrothyra</i> M.Howe.....	115
Harpanthaceae Arnell	116
<i>Harpanthus</i> Nees	116
Hygrobiiellaceae Konstant. et Vilnet.....	116
<i>Hygrobiiella</i> Spruce	116
Jackiellaceae R.M.Schust.	116
<i>Jackiella</i> Schiffn.	116
Jungermanniaceae Rchb.	117
Delavayelloideae Grolle	117
<i>Delavayella</i> Steph.	117
<i>Liochlaena</i> Nees	117
Jungermannioideae Dumort.	118
<i>Eremonotus</i> Lindb. et Kaal. ex Pearson	118
<i>Jungermannia</i> L.	118
Mesoptychioideae R.M.Schust.	120
<i>Mesoptychia</i> (Lindb.) A.Evans.....	120
<i>Rivulariella</i> D.H.Wagner	122
Notoscyphaceae Crand.-Stotl.	122
<i>Notoscyphus</i> Mitt.	122
Saccogynaceae Heeg	122
<i>Saccogyna</i> Dumort.....	122
Solenostomataceae Stotler et Crand.-Stotl.	123
<i>Aponardia</i> (R.M.Schust.) Váňa	123
<i>Arctoscyphus</i> Hässel	123
<i>Cryptocolea</i> R.M.Schust.	123
<i>Diplocolea</i> Amakawa	123
<i>Solenostoma</i> Mitt.	123
Southbyaceae Váňa.....	135
<i>Gongylanthus</i> Nees	135
<i>Southbya</i> Spruce	135
Stephaniellaceae R.M.Schust.	136

<i>Stephaniella</i> J.B.Jack	136
<i>Stephaniellidium</i> S.Winkl. ex Grolle	136
Trichotemnomaaceae R.M.Schust.	136
<i>Trichotemnoma</i> R.M.Schust.	136
Lophocoleineae Schljakov	137
Blepharostomataceae W.Frey et M.Stech	137
<i>Blepharostoma</i> (Dumort.) Dumort.	137
Brevianthaceae J.J.Engel et R.M.Schust.	137
<i>Brevianthus</i> J.J.Engel et R.M.Schust.	137
<i>Tetracymbaliella</i> Grolle	137
Chonocoleaceae R.M.Schust. ex Grolle	138
<i>Chonocolea</i> Grolle	138
Grolleaceae Solari ex R.M.Schust.	138
<i>Grollea</i> R.M.Schust.	138
Herbertaceae Müll.Frib. ex Fulford et Hatcher	138
<i>Herbertus</i> Gray	138
<i>Triandrophyllum</i> Fulford et Hatcher	171
Lepicoleaceae R.M.Schust.	141
<i>Lepicolea</i> Dumort.	142
<i>Vetaforma</i> Fulford et J.Taylor	142
Lepidoziaceae Limpr.	142
<i>Meinungeria</i> Frank Müll.	143
Bazzanioideae Rodway	143
<i>Acromastigum</i> A.Evans	143
<i>Bazzania</i> Gray	146
<i>Mastigopelma</i> Mitt.	163
Drucelloideae R.M.Schust.	163
<i>Drucella</i> E.A.Hodgs.	163
Lembidioideae R.M.Schust.	163
<i>Dendrolembidium</i> Herzog	163
<i>Hygrolembidium</i> R.M.Schust.	164
<i>Isolembidium</i> R.M.Schust.	164
<i>Kurzia</i> G.Martens	164
<i>Lembidium</i> Mitt.	168
<i>Megalembidium</i> R.M.Schust.	168
<i>Pseudocephalozia</i> R.M.Schust.	168
Lepidozioideae Müll.Frib.	169
<i>Ceramanus</i> E.D.Cooper	169
<i>Lepidozia</i> (Dumort.) Dumort.	169
<i>Neolepidozia</i> Fulford et J.Taylor	176
<i>Tricholepidozia</i> (R.M.Schust.) E.D.Cooper	179
Micropterygioideae Grolle	181
<i>Micropterygium</i> Gottsche	181

<i>Mytilopsis</i> Spruce	182
Protocephalozioidae R.M.Schust.....	182
<i>Protocephalozia</i> (Spruce) K.I.Goebel.....	182
Zoopsidoideae R.M.Schust.....	183
<i>Amazoopsis</i> J.J.Engel et G.L.Merr.....	183
<i>Hyalolepidozia</i> S.W.Arnell ex Grolle	183
<i>Monodactyloopsis</i> (R.M.Schust.) R.M.Schust.....	183
<i>Neogrollea</i> E.A.Hodgs.....	183
<i>Odontoseris</i> Fulford	183
<i>Paracromastigum</i> Fulford et J.Taylor	183
<i>Psiloclada</i> Mitt.....	185
<i>Pteropsiella</i> Spruce	185
<i>Telaranea</i> Spruce ex Schiffn.....	185
<i>Zoopsidella</i> R.M.Schust.....	187
<i>Zoopsis</i> Hook.f. ex Gottsche.....	188
Lophocoleaceae Vanden Berghen.....	189
<i>Bragginsella</i> R.M.Schust.....	189
<i>Chiloscyphus</i> Corda.....	189
<i>Clasmatocolea</i> Spruce	191
<i>Conoscyphus</i> Mitt.....	193
<i>Cryptolophocolea</i> L.Söderstr.....	193
<i>Deceptifrons</i> J.J.Engel et Váňa.....	196
<i>Evansianthus</i> R.M.Schust. et J.J.Engel	196
<i>Hepatostolonophora</i> J.J.Engel et R.M.Schust.	196
<i>Heteroscyphus</i> Schiffn.....	197
<i>Lamellocolea</i> J.J.Engel	204
<i>Leptophylloopsis</i> R.M.Schust.....	204
<i>Leptoscyphopsis</i> R.M.Schust.	204
<i>Leptoscyphus</i> Mitt.	204
<i>Lophocolea</i> (Dumort.) Dumort.....	208
<i>Otoscyphus</i> J.J.Engel, Bardat et Thouvenot.....	215
<i>Pachyglossa</i> Herzog et Grolle	216
<i>Perdusenien</i> Hässel.....	216
<i>Pigafettoa</i> C.Massal.	217
<i>Platycaulis</i> R.M.Schust.....	217
<i>Stolonivector</i> J.J.Engel	217
<i>Xenocephalozia</i> R.M.Schust.	217
Mastigophoraceae R.M.Schust.....	217
<i>Dendromastigophora</i> R.M.Schust.	217
<i>Mastigophora</i> Nees	217
Plagiochilaceae Müll.Frib.....	218
<i>Acrochila</i> R.M.Schust.	218
<i>Chiastocaulon</i> Carl	219

<i>Dinckleria</i> Trevis.	219
<i>Pedinophyllopsis</i> R.M.Schust. et Inoue.....	219
<i>Pedinophyllum</i> Lindb. ex Nordst.	219
<i>Plagiochila</i> (Dumort.) Dumort.	219
<i>Plagiochilidium</i> Herzog.....	252
<i>Plagiochilion</i> S.Hatt.....	252
<i>Pseudolophocolea</i> R.M.Schust. et J.J.Engel.....	253
<i>Xenochila</i> R.M.Schust.	253
Pseudolepicoleaceae Fulford et J.Taylor.....	253
<i>Archeophylla</i> R.M.Schust.....	253
<i>Castanoclobos</i> J.J.Engel et Glenny	254
<i>Chaetocolea</i> Spruce.....	254
<i>Herzogiaria</i> Fulford ex Hässel.....	254
<i>Isophyllaria</i> E.A.Hodgs. et Allison	254
<i>Pseudolepicolea</i> Fulford et J.Taylor	254
<i>Temnoma</i> Mitt.....	255
Trichocoleaceae Nakai.....	256
<i>Eotrichocolea</i> R.M.Schust.....	256
<i>Leiomitra</i> Lindb.	256
<i>Trichocolea</i> Dumort.	257
Myliineae J.J.Engel et Braggins ex Crand.-Stotl.	258
Myliaceae Schljakov.....	258
<i>Mylia</i> Gray	258
Perssoniellineae R.M.Schust.	259
Schistochilaceae H.Buch.....	259
<i>Schistochila</i> Dumort.	259
Porellales Schljakov.....	264
Jubulineae Müll.Frib.	264
Frullaniaceae Lorch.....	264
<i>Frullania</i> Raddi	264
Jubulaceae H.Klinggr.....	295
<i>Jubula</i> Dumort.	295
<i>Neobattoria</i> Kamim.....	296
<i>Nipponolejeunea</i> S.Hatt.	296
Lejeuneaceae Cavers	297
Lejeuneoideae	297
trib. Brachiolejeuneae	297
subtrib. Brachiolejeuneinae Gradst.	297
<i>Acanthocoleus</i> R.M.Schust.....	297
<i>Blepharolejeunea</i> S.W.Arnell	298
<i>Brachiolejeunea</i> (Spruce) Schiffn.	298
<i>Dicranolejeunea</i> (Spruce) Schiffn.	299
<i>Lindigianthus</i> Kruijt et Gradst.....	299

<i>Odontolejeunea</i> (Spruce) Schiffn.	299
subtrib. Stictolejeuneinae Gradst.	299
<i>Neurolejeunea</i> (Spruce) Schiffn.	299
<i>Stictolejeunea</i> (Spruce) Schiffn.	300
trib. Lejeuneae Dumort.	300
<i>Dactylophorella</i> R.M.Schust.	300
<i>Metalejeunea</i> Grolle	300
<i>Pictolejeunea</i> Grolle	300
subtrib. Ceratolejeuneinae Gradst.	301
<i>Ceratolejeunea</i> (Spruce) J.B.Jack et Steph.	301
<i>Luteolejeunea</i> Piippo	304
<i>Otigonolejeunea</i> (Spruce) Schiffn.	304
subtrib. Cheilolejeuneinae Gradst.	304
<i>Aureolejeunea</i> R.M.Schust.	304
<i>Cheilolejeunea</i> (Spruce) Steph.	305
<i>Cyrtolejeunea</i> A.Evans	316
<i>Cystolejeunea</i> A.Evans.	316
<i>Omphalanthus</i> Lindenb. et Nees.	316
subtrib. Cololejeuneinae Gradst.	317
<i>Aphanotropis</i> Herzog.	317
<i>Calatholejeunea</i> K.I.Goebel	317
<i>Cololejeunea</i> (Spruce) Steph.	317
<i>Colura</i> (Dumort.) Dumort.	340
<i>Diplasiolejeunea</i> (Spruce) Schiffn.	344
<i>Haplolejeunea</i> Grolle.	348
<i>Macrocolura</i> R.M.Schust.	348
<i>Myriocoleopsis</i> Schiffn.	348
<i>Nephelolejeunea</i> Grolle.	349
<i>Schusterolejeunea</i> Grolle	349
<i>Siphonolejeunea</i> Herzog.	350
<i>Tuyamaella</i> S.Hatt.	350
subtrib. Cyclolejeuneinae Gradst.	350
<i>Bromeliophila</i> R.M.Schust.	350
<i>Cyclolejeunea</i> A.Evans	351
<i>Prionolejeunea</i> (Spruce) Schiffn.	351
subtrib. Drepanolejeuneinae Gradst.	353
<i>Capillolejeunea</i> S.W.Arnell	353
<i>Drepanolejeunea</i> (Spruce) Steph.	353
<i>Vitalianthus</i> R.M.Schust. et Giancotti.	361
subtrib. Echinolejeuneinae Gradst.	361
<i>Anoplolejeunea</i> (Spruce) Schiffn.	361
<i>Echinolejeunea</i> R.M.Schust.	362
<i>Kymatolejeunea</i> Grolle	362

subtrib. <i>Leiolejeuneinae</i> Schäf.-Verw. et Heinrichs	362
<i>Leiolejeunea</i> A.Evans	362
subtrib. <i>Lejeuneinae</i> Gradst.	362
<i>Harpalejeunea</i> (Spruce) Schiffn.	362
<i>Hattoriolejeunea</i> Mizut.	364
<i>Lejeunea</i> Lib.	364
<i>Microlejeunea</i> (Spruce) Steph.	385
<i>Taxilejeunea</i> (Spruce) Steph.	388
subtrib. <i>Lepidolejeuneinae</i> Gradst.	391
<i>Lepidolejeunea</i> R.M.Schust.	391
<i>Otolejeunea</i> Grolle et Tixier	392
<i>Rectolejeunea</i> A.Evans	393
subtrib. <i>Leptolejeuneinae</i> Heinrichs et Schäf.-Verw.	394
<i>Leptolejeunea</i> (Spruce) Steph.	394
subtrib. <i>Pycnolejeuneinae</i> Heinrichs et Schäf.-Verw.	396
<i>Pycnolejeunea</i> (Spruce) Schiffn.	396
subtrib. <i>Xylolejeuneinae</i> Heinrichs et Schäf.-Verw.	398
<i>Xylolejeunea</i> Xiao L.He et Grolle	398
trib. <i>Symbiezidiaceae</i> Gradst.	398
<i>Symbiezidium</i> Trevis.	398
Ptychanthoideae Mizut.	399
<i>Acrolejeunea</i> (Spruce) Schiffn.	399
<i>Archilejeunea</i> (Spruce) Steph.	401
<i>Bryopteris</i> (Nees) Lindenb.	403
<i>Caudalejeunea</i> Schiffn.	403
<i>Cephalantholejeunea</i> R.M.Schust.	405
<i>Cephalolejeunea</i> Mizut.	405
<i>Frullanoides</i> Raddi	405
<i>Fulfordianthus</i> Gradst.	405
<i>Lopholejeunea</i> (Spruce) Steph.	406
<i>Marchesinia</i> Gray	408
<i>Mastigolejeunea</i> (Spruce) Steph.	409
<i>Phaeolejeunea</i> Mizut.	410
<i>Ptychanthus</i> Nees	411
<i>Schiffneriolejeunea</i> Verd.	411
<i>Spruceanthus</i> Verd.	412
<i>Thysananthus</i> Lindenb.	413
<i>Tuzibeanthus</i> S.Hatt.	414
<i>Verdoornianthus</i> Gradst.	414
Porellineae R.M.Schust.	415
Goebeliellaceae Verd.	415
<i>Goebeliella</i> Steph.	415
Lepidolaenaceae Nakai	415

<i>Gackstroemia</i> Trevis.	415
<i>Lepidogyna</i> R.M.Schust.	416
<i>Lepidolaena</i> Dumort.	416
Porellaceae Cavers <i>nom. conserv.</i>	417
<i>Asciodiota</i> C.Massal.	417
<i>Porella</i> L.	417
Radulineae R.M.Schust.	424
Radulaceae Müll.Frib.	424
<i>Radula</i> Dumort.	425
Ptilidiales Schljakov	434
Herzogianthaceae Stotler et Crand.-Stotl.	434
<i>Herzogianthus</i> R.M.Schust.	434
Neotrichocoleaceae Inoue.....	434
<i>Neotrichocolea</i> S.Hatt.	434
<i>Trichocoleopsis</i> S.Okamura	434
Ptilidiaceae H.Klinggr.	434
<i>Ptilidium</i> Nees	434
Metzgeriidae Barthol.-Began	435
Metzgeriales Chalaud.....	435
Aneuraceae H.Klinggr.	435
<i>Aneura</i> Dumort.	435
<i>Lobatirricardia</i> (Mizut. et S.Hatt.) Furuki	437
<i>Riccardia</i> Gray	438
<i>Verdoornia</i> R.M.Schust.	456
Metzgeriaceae H.Klinggr.	456
<i>Metzgeria</i> Raddi	457
<i>Steereella</i> Kuwah.	461
<i>Vandiemenia</i> Hewson	461
Pleuroziales Schljakov	462
Pleuroziaceae Müll.Frib.	462
<i>Pleurozia</i> Dumort.	462
Pelliidae He-Nygrén	463
Fossombroniales Schljakov.....	463
Calyculariineae He-Nygrén.....	463
Calyculariaceae He-Nygrén	463
<i>Calycularia</i> Mitt.	463
Fossombroniineae R.M.Schust. ex Stotler et Crand.-Stotl.....	463
Allisoniaceae Schljakov	463
<i>Allisonia</i> Herzog	463
Fossombroniaceae Hazsl. <i>nom. conserv.</i>	463
<i>Fossombronia</i> Raddi	463
Petalophyllaceae Stotler et Crand.-Stotl.	468
<i>Petalophyllum</i> Nees et Gottsche	468

<i>Sewardiella</i> Kashyap	468
Makinoiniinae He-Nygrén	468
Makinoaceae Nakai	468
<i>Makinoa</i> Miyake	468
Pallaviciniales W.Frey et M.Stech	468
Pallaviciniinae R.M.Schust.	468
Hymenophytaceae R.M.Schust.	468
<i>Hymenophyton</i> Dumort.	468
Moerckiaceae K.I.Goebel ex Stotler et Crand.-Stotl.	469
<i>Hattorianthus</i> R.M.Schust. et Inoue	469
<i>Moerckia</i> Gottsche	469
Pallaviciniaceae Mig.	469
Pallavicinioideae Mig. ex Grolle	469
<i>Jensenia</i> Lindb.	469
<i>Pallavicinia</i> Gray	470
<i>Podomitrium</i> Mitt.	471
Symphyogynoideae R.M.Schust. ex Grolle	471
<i>Greeneothallus</i> Hässel	471
<i>Seppeltia</i> Grolle	471
<i>Symphyogyna</i> Nees et Mont.	471
<i>Symphyogynopsis</i> Grolle	473
<i>Xenothallus</i> R.M.Schust.	473
Sandeothallaceae R.M.Schust.	474
<i>Sandeothallus</i> R.M.Schust.	474
Phyllothalliinae R.M.Schust.	474
Phyllothalliaceae E.A.Hodgs. ex T.Katag.	474
<i>Phyllothallia</i> E.A.Hodgs.	474
Pelliales He-Nygrén	474
Noterocladaceae W.Frey et M.Stech	474
<i>Noteroclada</i> Taylor ex Hook.f. et Wilson	474
Pelliaceae H.Klinggr.	475
<i>Pellia</i> Raddi	475
Marchantiopsida Cronquist	476
Blasiidae He-Nygrén	476
Blasiales Stotler et Crand.-Stotl.	476
Blasiaceae H.Klinggr.	476
<i>Blasia</i> L.	476
<i>Cavicularia</i> Steph.	476
Marchantiidae Engl.	476
Lunulariales H.Klinggr.	476
Lunulariaceae H.Klinggr.	476
<i>Lunularia</i> Adans.	476
Marchantiales Limpr.	476

Aytoniaceae Cavers	476
<i>Asterella</i> P.Beauv.	477
<i>Cryptomitrium</i> Austin ex Underw.	481
<i>Mannia</i> Corda	481
<i>Plagiochasma</i> Lehm.	482
<i>Reboulia</i> Raddi	483
Cleveaceae Cavers	484
<i>Athalamia</i> Falc.	484
<i>Clevea</i> Lindb.	484
<i>Peltolepis</i> Lindb.	484
<i>Sauteria</i> Nees	485
Conocephalaceae Müll.Frib. ex Grolle	485
<i>Conocephalum</i> Hill	485
Corsiniaceae Engl.	486
Corsinioideae Schiffn.	486
<i>Corsinia</i> Raddi	486
Cronisioideae R.M.Schust.	486
<i>Cronisia</i> Berk.	486
Cyathodiaceae Stotler et Crand.-Stotl.	486
<i>Cyathodium</i> Kunze	486
Dumortieraceae D.G.Long	487
<i>Dumortiera</i> Nees	487
Exormothecaceae Müll.Frib. ex Grolle	487
<i>Aitchisoniella</i> Kashyap	487
<i>Exormotheca</i> Mitt.	488
<i>Stephensiella</i> Kashyap	488
Marchantiaceae Lindl.	488
Bucegioideae R.M.Schust.	488
<i>Bucegia</i> Radian	488
Marchantioideae Schiffn.	489
<i>Marchantia</i> L.	489
<i>Preissia</i> Corda	492
Monocleaceae A.B.Frank	492
<i>Monoclea</i> Hook.	492
Monosoleniaceae Inoue	492
<i>Monosolenium</i> Griff.	492
Oxymitraceae Müll.Frib. ex Grolle	493
<i>Oxymitra</i> Bisch. ex Lindenb.	493
Ricciaceae Rchb.	493
<i>Riccia</i> L.	493
<i>Ricciocarpos</i> Corda	503
Targioniaceae Dumort.	503

<i>Targionia</i> L.....	503
Wiesnerellaceae Inoue.....	504
<i>Wiesnerella</i> Schiffn.....	504
Neohodgsoniales D.G.Long.....	504
Neohodgsoniaceae D.G.Long.....	504
<i>Neohodgsonia</i> Perss.....	504
Sphaerocarpaceae Cavers	504
Monocarpaceae D.J.Carr ex Schelpe	504
<i>Monocarpus</i> D.J.Carr	504
Riellaceae Engl.....	504
<i>Austroriella</i> Cargill et J.Milne.....	504
<i>Riella</i> Mont.....	505
Sphaerocarpaceae Heeg.....	506
<i>Geothallus</i> Campb.....	506
<i>Sphaerocarpos</i> Boehm.....	506

Taxonomic list

ANTHOCEROTOPHYTA

ANTHOCEROTOPSIDA de Bary ex Jancz.

Anthocerotidae Rosenv.

Anthocerotales Limpr.

*** Anthocerotaceae Dumort.

by J.C. Villarreal and D.C. Cargill

Notes on nomenclature and taxonomy can also be found in Cargill et al. (2013b) and Villarreal et al. (2015)

*** *Anthoceros* L., Sp. Pl. 1: 1139, 1753 (Linnaeus 1753).¹

*** *Anthoceros adscendens* Lehm. et Lindenb., Nov. Stirp. Pug. 4: 24, 1832 (Lehmann 1832).

*** *Anthoceros agrestis* Paton, J. Bryol. 10 (3): 257, 1979 (Paton 1979a), *nom. conserv.*²

*** *Anthoceros alpinus* Steph., Sp. Hepat. (Stephani) 6: 425, 1923 (Stephani 1923).

1 *Anthoceros* includes *Aspiromitus*, but some taxa have neither been transferred nor synonymized. They are listed in the “Names in genera not currently accepted” section below.

2 *Anthoceros agrestis* is conserved against the earlier *Anthoceros nagasakiensis* Steph. 1916. *Anthoceros cristatus* Steph. 1916 is also an earlier synonym and a proposal to conserve *Anthoceros agrestis* against it is in progress.

- * *Anthoceros angustifolius* Gottsche, Lindenb. et Nees, Syn. Hepat. 4: 582, 1846 (Gottsche et al. 1846).³
- *** *Anthoceros angustus* Steph., Sp. Hepat. (Stephani) 5: 1001, 1916 (Stephani 1916b).
- *** *Anthoceros bharadwajii* Udari et A.K.Asthana, Proc. Indian Natl. Sci. Acad., B 51 (4): 484, 1985 (Udari and Asthana 1985b).
- ** *Anthoceros buettneri* Steph., Sp. Hepat. (Stephani) 5: 997, 1916 (Stephani 1916b).
- *** *Anthoceros capricornii* Cargill et G.A.M.Scott, J. Hattori Bot. Lab. 82: 55, 1997 (Cargill and Scott 1997).
- *** *Anthoceros caucasicus* Steph., Izv. Kavkazsk. Muz. 8: 87, 1914 (Voronov' 1914).
- ** *Anthoceros cavernosus* Steph., Sp. Hepat. (Stephani) 5: 998, 1916 (Stephani 1916b).
- * *Anthoceros chambensis* Kashyap, J. Bombay Nat. Hist. Soc. 25 (2): 281, 1917 (Kashyap 1917).
- ** *Anthoceros chungii* Khanna, J. Indian Bot. Soc. 17 (5/6): 316, 1938 (Khanna 1938).
- ** *Anthoceros crispatus* Griff., Not. pl. asiat. 2: 349, 1849 (Griffith 1849).
- ** *Anthoceros dimorphus* Sim, Trans. Roy. Soc. South Africa 15 (1): 114, 1926 (Sim 1926).
- *** *Anthoceros erectus* Kashyap, New Phytol. 14 (1): 9, 1915 (Kashyap 1915).
- ** *Anthoceros expansus* (Steph.) J.C.Villarreal et Cargill, Phytotaxa 208 (1): 92, 2015 (Villarreal et al. 2015). Bas.: *Aspiromitus expansus* Steph., Sp. Hepat. (Stephani) 5: 961, 1916 (Stephani 1916b).
- * *Anthoceros ferdinandi-muelleri* Steph., Sp. Hepat. (Stephani) 5: 1007, 1916 (Stephani 1916b).⁴
- *** *Anthoceros fragilis* Steph., Sp. Hepat. (Stephani) 5: 1006, 1916 (Stephani 1916b).
- *** *Anthoceros fusiformis* Austin, Bull. Torrey Bot. Club 6 (4): 28, 1875 [1876] (Austin 1875a).
- *** *Anthoceros fusiformis* var. *taiwanensis* J.Haseg., Acta Phytotax. Geobot. 44 (2): 100, 1993 (Hasegawa 1993b).
- ** *Anthoceros gasongorii* Gola, Mem. Reale Accad. Sci. Torino (ser. 2) 65 (1): 10, 1916 (Gola 1916).
- ** *Anthoceros granulatus* Gottsche, Mexik. Leverm.: 275, 1863 (Gottsche 1863).
- ** *Anthoceros harrisanus* (Steph.) Parihar, Univ. Allahabad Stud., Bot. 1961-2: 31, 1962 (Parihar 1962). Bas.: *Aspiromitus harrisanus* Steph., Sp. Hepat. (Stephani) 5: 965, 1916 (Stephani 1916b).
- * *Anthoceros helmsii* Steph., Hedwigia 32 (3): 142, 1893 (Stephani 1893b).⁵
- ** *Anthoceros jamesonii* Taylor ex Mitt., Bot. antarct. voy. II (Fl. Nov.-Zel. 2): 171, 1855 (Mitten 1855).

3 *Anthoceros angustifolius* (type from Europe) has neither been recognized in any recent treatment nor synonymized. The name may have priority once its identity is determined.

4 *Anthoceros ferdinandi-muelleri* is similar to *Anthoceros punctatus*, but *Anthoceros* still needs to be revised for Australia.

5 *Anthoceros helmsii* was treated as conspecific with *Anthoceros muscoides* by Campbell (1982), but it is in need of a revision.

- * *Anthoceros javanicoides* H.A.Mill., Phytologia 47 (4): 319, 1981 (Miller 1981). *Nom. nov. pro Anthoceros javanicus* Steph., Sp. Hepat. (Stephani) 5: 988, 1916 (Stephani 1916b), *nom. illeg.*⁶
- ** *Anthoceros jungermannioides* Schwein., Spec. Fl. Amer. Crypt.: 25, 1821 (Schweinitz 1821).
- * *Anthoceros kajumas* (K.I.Goebel) Prosk., Bull. Torrey Bot. Club 78 (4): 347, 1951 (Proskauer 1951a). Bas.: *Aspiromitus kajumas* K.I.Goebel, Ann. Jard. Bot. Buitenzorg 39: 69, 1928 (Goebel 1928).
- * *Anthoceros koshii* Khanna, J. Indian Bot. Soc. 15 (4): 237, 1936 (Khanna 1936).
- *** *Anthoceros lamellatus* Steph., Sp. Hepat. (Stephani) 5: 1000, 1916 (Stephani 1916b).
- *** *Anthoceros laminifer* Steph., J. Linn. Soc., Bot. 29 (201): 266, 1892 (Stephani 1892b).
- *** *Anthoceros macounii* M.Howe, Bull. Torrey Bot. Club 25 (1): 19, 1898 (Howe 1898a).
- *** *Anthoceros macrosporus* Steph., Sp. Hepat. (Stephani) 5: 1005, 1916 (Stephani 1916b).
- ** *Anthoceros maritimus* Steph., Sp. Hepat. (Stephani) 5: 984, 1916 (Stephani 1916b).
- * *Anthoceros megasporus* Meijer, J. Hattori Bot. Lab. 18: 6, 1957 (Meijer 1957).
- ** *Anthoceros muscoides* Colenso, Trans. & Proc. New Zealand Inst. 16: 361, 1884 (Colenso 1884).
- *** *Anthoceros myriandroecius* Steph., Wiss. Ergebn. Deut. Zentr.-Afr. Exped. (1907-08), Bot. 2: 134, 1911 (Stephani 1911a).
- ** *Anthoceros natalensis* Steph., Akad. Wiss. Wien, Math.-Naturwiss. Kl., Denkschr. 88: 732, 1913 (Stephani 1913b).
- *** *Anthoceros neesii* Prosk., Leberm. Eur. 2 (9): 1312, 1958 (Proskauer 1958). *Nom. nov. pro Anthoceros punctatus* α^* *monocarpus* Nees, Naturgesch. Eur. Leberm. 4: 339, 1838 (Nees 1838a).
- ** *Anthoceros niger* Steph., Sp. Hepat. (Stephani) 5: 1005, 1916 (Stephani 1916b).
- ** *Anthoceros orizabensis* (Steph.) Hässel, Candollea 45 (1): 211, 1990 (Hässel 1990b). Bas.: *Aspiromitus orizabensis* Steph., Sp. Hepat. (Stephani) 5: 965, 1916 (Stephani 1916b).
- *** *Anthoceros pandei* Udar et A.K.Asthana, J. Indian Bot. Soc. 64: 305, 1985 (Udar and Asthana 1985a).
- *** *Anthoceros patagonicus* Hässel, Candollea 45 (1): 207, 1990 (Hässel 1990b).
- *** *Anthoceros patagonicus* subsp. *gremmenii* J.C.Villarreal, J.J.Engel et Váña, Mem. New York Bot. Gard. 105: 32, 2013 (Váña and Engel 2013).
- ** *Anthoceros peruvianus* Steph., Sp. Hepat. (Stephani) 5: 999, 1916 (Stephani 1916b).
- ** *Anthoceros pinnatus* Steph., Bol. Soc. Brot. 4: 154 [182], 1885 [1886] (Stephani 1885c).
- *** *Anthoceros punctatus* L., Sp. Pl. 1: 1139, 1753 (Linnaeus 1753).⁷

6 *Anthoceros javanicoides* belongs to the *Anthoceros punctatus* species complex (Söderström et al. 2010a).

7 *Anthoceros punctatus* is a species complex in need of a revision.

- * *Anthoceros pusillus* Colenso, Trans. & Proc. New Zealand Inst. 18: 255, 1886 (Colenso 1886b).
- *** *Anthoceros rosulans* J.Haseg., J. Hattori Bot. Lab. 60: 379, 1986 (Hasegawa 1986b).
- *** *Anthoceros sambesianus* Steph., Sp. Hepat. (Stephani) 5: 996, 1916 (Stephani 1916b).
- *** *Anthoceros scariosus* Austin, Proc. Acad. Nat. Sci. Philadelphia 21: 230, 1869 (Austin 1869).
- ** *Anthoceros schroederi* Steph., 52 (5): 306, 1912 (Stephani 1912a).
- ** *Anthoceros serratus* Steph., Kungl. Svenska Vetensk.-Akad. Handl. (n.ser.) 46 (9): 90, 1911 (Stephani 1911b).
- ** *Anthoceros simulans* M.Howe, Proc. Calif. Acad. Sci. (ser. 4) 21 (17): 204, 1934 (Howe 1934).
- ** *Anthoceros spongiosus* Steph., Sp. Hepat. (Stephani) 5: 1003, 1916 (Stephani 1916b).
- *** *Anthoceros subtilis* Steph., Sp. Hepat. (Stephani) 5: 1003, 1916 (Stephani 1916b).
- *** *Anthoceros telaganus* Steph., Sp. Hepat. (Stephani) 5: 1005, 1916 (Stephani 1916b).
- *** *Anthoceros tristanianus* J.C.Villarreal, J.J.Engel et Váña, Mem. New York Bot. Gard. 105: 33, 2013 (Váña and Engel 2013).
- *** *Anthoceros tuberculatus* Lehm. et Lindenb., Nov. Stirp. Pug. 4: 25, 1832 (Lehmann 1832).
- ** *Anthoceros venosus* Lindenb. et Gottsche, Syn. Hepat. 4: 584, 1846 (Gottsche et al. 1846).

Excluded from the genus

- * *Anthoceros aethyopicus* Gola, Ann. Bot. (Rome) 13 (1): 73, 1914 (Gola 1914a).⁸
- * *Anthoceros brunnthaleri* Steph., Akad. Wiss. Wien, Math.-Naturwiss. Kl., Denkschr. 88: 732, 1913 (Stephani 1913b).⁹
- * *Anthoceros floribundus* Steph., Sp. Hepat. (Stephani) 5: 977, 1916 (Stephani 1916b).¹⁰
- * *Anthoceros mildbraedii* Steph., Sp. Hepat. (Stephani) 6: 428, 1923 (Stephani 1923).¹¹
- * *Anthoceros parvifrons* Steph., 52 (5): 307, 1912 (Stephani 1912a).¹²
- * *Anthoceros pseudocostus* Steph., Sp. Hepat. (Stephani) 5: 977, 1916 (Stephani 1916b).¹³
- * *Anthoceros rossoi* Gola, Mem. Reale Accad. Sci. Torino (ser. 2) 65 (1): 10, 1916 (Gola 1916).¹⁴

8 *Anthoceros aethyopicus* is probably a *Phaeoceros* species (Wigginton 2009).

9 *Anthoceros brunnthaleri* was annotated by Hasegawa in 1993 as probably conspecific with *Phymatoceros bulbiculosus* but the synonymy seems not to have been published.

10 *Anthoceros floribundus* type specimen in G was annotated by Hasegawa in 1993 as conspecific with *Anthoceros parvifrons* which is a *Phaeoceros* species.

11 *Anthoceros mildbraedii* is probably conspecific with *Phaeoceros carolinianus* (Wigginton and Grolle 1996).

12 *Anthoceros parvifrons* is annotated as a *Phaeoceros* species by Hasegawa in 1993 but the new combination has never been published.

13 *Anthoceros pseudocostus* is a *Phaeoceros* species of uncertain status (Grolle 1995).

14 *Anthoceros rossoi* is a *Phaeoceros* species of uncertain status (Wigginton 2009).

- *** ***Folioceros* D.C.Bharadwaj**, Geophytology 1 (1): 9, 1971 (Bharadwaj 1971).
- *** *Folioceros amboinensis* (Schiffn.) Piippo, Acta Bot. Fenn. 148: 36, 1993 (Piippo 1993b). Bas.: *Anthoceros amboinensis* Schiffn., Leberm., Forschungsr. Gazelle 4 (4): 45, 1890 (Schiffner 1890).
- ** *Folioceros apiahynus* (Steph.) Hässel, Candollea 45 (1): 215, 1990 (Hässel 1990b). Bas.: *Anthoceros apiahynus* Steph., Sp. Hepat. (Stephani) 5: 999, 1916 (Stephani 1916b).
- ** *Folioceros argillaceus* (Steph.) J.C.Villarreal et Cargill, Phytotaxa 208 (1): 93, 2015 (Villarreal et al. 2015). Bas.: *Aspiromitus argillaceus* Steph., Sp. Hepat. (Stephani) 5: 970, 1916 (Stephani 1916b).
- *** *Folioceros assamicus* D.C.Bharadwaj, Geophytology 1 (1): 10, 1971 (Bharadwaj 1971).
- ** *Folioceros dilatatus* (Steph.) J.C.Villarreal et Cargill, Phytotaxa 208 (1): 93, 2015 (Villarreal et al. 2015). Bas.: *Anthoceros dilatatus* Steph., Bot. Jahrb. Syst. 8 (2): 95, 1886 (Stephani 1886d).
- *** *Folioceros dixitianus* (Mahab.) D.C.Bharadwaj, Geophytology 5 (2): 227, 1975 (Bharadwaj 1975). Bas.: *Aspiromitus dixitianus* Mahab., Curr. Sci. 10 (12): 532, 1941 (Mahabale 1941).
- *** *Folioceros fuciformis* (Mont.) D.C.Bharadwaj, Geophytology 5 (2): 227, 1975 (Bharadwaj 1975). Bas.: *Anthoceros fuciformis* Mont., Ann. Sci. Nat. Bot. (sér. 2) 20: 296, 1844 (Montagne 1844b).
- *** *Folioceros glandulosus* (Lehm. et Lindenb.) D.C.Bharadwaj, Geophytology 5 (2): 227, 1975 (Bharadwaj 1975). Bas.: *Anthoceros glandulosus* Lehm. et Lindenb., Nov. Stirp. Pug. 4: 26, 1832 (Lehmann 1832).
- *** *Folioceros incurvus* (Steph.) D.C.Bharadwaj, Geophytology 5 (2): 227, 1975 (Bharadwaj 1975). Bas.: *Anthoceros incurvus* Steph., Hedwigia 32 (3): 143, 1893 (Stephani 1893b).
- *** *Folioceros indicus* D.C.Bharadwaj, Geophytology 8 (1): 114, 1978 (Bharadwaj 1978).
- *** *Folioceros kashyapii* S.C.Srivast. et A.K.Asthana, Bryologist 92 (2): 219, 1989 (Srivastava and Asthana 1989).
- *** *Folioceros mangaloreus* (Steph.) D.C.Bharadwaj, Geophytology 5 (2): 227, 1975 (Bharadwaj 1975). Bas.: *Aspiromitus mangaloreus* Steph., Sp. Hepat. (Stephani) 5: 967, 1916 (Stephani 1916b).
- *** *Folioceros paliformis* D.K.Singh, Bull. Bot. Surv. India 29: 176, 1987 [1989] (Singh 1987b).
- *** *Folioceros physocladus* D.C.Bharadwaj, Geophytology 8 (1): 115, 1978 (Bharadwaj 1978). Based on: *Anthoceros physocladus* Schiffn. ex Pandé, Proc. Indian Sci. Congr. Assoc. 47 (2): 98, 1960 (Pandé 1960), *nom. inval.*
- *** *Folioceros pinnilobus* (Steph.) D.C.Bharadwaj, Geophytology 5 (2): 227, 1975 (Bharadwaj 1975). Bas.: *Anthoceros pinnilobus* Steph., Akad. Wiss. Wien, Math.-Naturwiss. Kl., Denkschr. 81: 299, 1907 (Stephani 1907a).
- *** *Folioceros satpurensis* D.C.Bharadwaj et K.P.Srivast., Geophytology 8 (1): 112, 1978 (Bharadwaj 1978). Based on: *Anthoceros satpurensis* K.P.Srivast., Proc. Indian Sci. Congr. Assoc. 47 (3): 337, 1960 (Srivastava 1960), *nom. inval.*

- *** *Folioceros udarii* A.K.Asthana et S.C.Srivast., *Cryptog. Bryol. Lichénol.* 7 (2): 151, 1986 (Asthana and Srivastava 1986).
- *** *Folioceros verruculosus* (J.Haseg.) R.L.Zhu et M.J.Lai, *Ann. Bot. Fenn.* 48 (5): 383, 2011 (Wang et al. 2011). Bas.: *Anthoceros verruculosus* J.Haseg., *Acta Phytotax. Geobot.* 44 (2): 103, 1993 (Hasegawa 1993b).

Dendrocerotidae R.J.Duff, J.C.Villarreal, Cargill et Renzaglia

Dendrocerotales Hässel

*** Dendrocerotaceae J.Haseg.

by J.C. Villarreal and D.C. Cargill

- *** *Dendroceros* Nees, *Syn. Hepat.* 4: 579, 1846 (Gottsche et al. 1846).
- ** **subg. *Apoceros* R.M.Schust.**, *Phytologia* 63 (3): 200, 1987 (Schuster 1987b).
- *** *Dendroceros cavernosus* J.Haseg., *J. Hattori Bot. Lab.* 47: 306, 1980 (Hasegawa 1980).
- *** *Dendroceros difficilis* Steph., *Sp. Hepat. (Stephani)* 5: 1009, 1917 (Stephani 1917b).
- *** *Dendroceros muelleri* Steph., *Hedwigia* 28 (2): 133, 1889 (Stephani 1889a).
- *** *Dendroceros ogeramnangus* Piippo, *Acta Bot. Fenn.* 148: 40, 1993 (Piippo 1993b).
- *** *Dendroceros pedunculatus* Steph., *Sitzungsber. Naturf. Ges. Leipzig* 36: 14, 1909 (Stephani 1909c).
- ** *Dendroceros subdifficilis* S.Hatt., *Bot. Mag. (Tokyo)* 64 (755/756): 119, 1951 (Hattori 1951c).
- ** **subg. *Dendroceros***
- *** *Dendroceros acutilobus* Steph., *Sitzungsber. Naturf. Ges. Leipzig* 36: 18, 1909 (Stephani 1909c).
- *** *Dendroceros borbonicus* Steph., *Bull. Soc. Roy. Bot. Belgique, Compt. Rend.* 32 (2): 31, 1893 [1894] (Stephani 1893e).
- *** *Dendroceros crispus* (Sw.) Nees, *Syn. Hepat.* 4: 581, 1846 (Gottsche et al. 1846). Bas.: *Anthoceros crispus* Sw., *Prodr. (Swartz)*: 146, 1788 (Swartz 1788).
- *** *Dendroceros foliicola* J.Haseg., *J. Hattori Bot. Lab.* 47: 296, 1980 (Hasegawa 1980).
- *** *Dendroceros japonicus* Steph., *Sitzungsber. Naturf. Ges. Leipzig* 36: 15, 1909 (Stephani 1909c).
- *** *Dendroceros javanicus* (Nees) Nees, *Syn. Hepat.* 4: 582, 1846 (Gottsche et al. 1846). Bas.: *Anthoceros javanicus* Nees, *Enum. Pl. Crypt. Javae*: 1, 1830 (Nees 1830).
- *** *Dendroceros subplanus* Steph., *Sitzungsber. Naturf. Ges. Leipzig* 36: 20, 1909 (Stephani 1909c).
- *** *Dendroceros tubercularis* S.Hatt., *Bot. Mag. (Tokyo)* 58 (685): 6, 1944 (Hattori 1944b).

- *** *Dendroceros validus* Steph., Sp. Hepat. (Stephani) 5: 1016, 1917 (Stephani 1917b).
 ** *Dendroceros vesconianus* Gottsche, J. Bot. (Morot) 12: 150, 1898 (Bescherelle 1898).
 ** *Dendroceros wattsonianus* Steph., Sitzungsber. Naturf. Ges. Leipzig 36: 17, 1909 (Stephani 1909c).

Incertae sedis

- * *Dendroceros adglutinatus* (Hook.f. et Taylor) Gottsche, Lindenb. et Nees, Syn. Hepat. 4: 580, 1846 (Gottsche et al. 1846). Bas.: *Monoclea adglutinata* Hook.f. et Taylor, London J. Bot. 4: 96, 1845 (Hooker and Taylor 1845).¹⁵
 *** *Dendroceros africanus* Steph., Sitzungsber. Naturf. Ges. Leipzig 36: 18, 1909 (Stephani 1909c).
 ** *Dendroceros allionii* Steph., Sp. Hepat. (Stephani) 5: 1014, 1917 (Stephani 1917b).
 ** *Dendroceros australis* Steph., Sitzungsber. Naturf. Ges. Leipzig 36: 17, 1909 (Stephani 1909c).
 ** *Dendroceros breutelii* Nees, Syn. Hepat. 4: 581, 1846 (Gottsche et al. 1846).
 ** *Dendroceros breutelii* var. *surinamensis* Lindenb. et Gottsche, Linnaea 24 (6): 639, 1851 [1852] (Lindenberg and Gottsche 1851a).
 *** *Dendroceros cichoraceus* (Mont.) Gottsche, Bot. Zeitung (Berlin) Beil. 16: 16, 1858 (Gottsche 1858). Bas.: *Anthoceros cichoraceus* Mont., Ann. Sci. Nat. Bot. (sér. 3) 4: 355, 1845 (Montagne 1845b).
 * *Dendroceros crassicosatus* Steph., Sp. Hepat. (Stephani) 5: 1015, 1917 (Stephani 1917b).
 ** *Dendroceros crassinervis* (Nees) Gottsche, Bot. Zeitung (Berlin) Beil. 16: 18, 1858 (Gottsche 1858). Bas.: *Anthoceros crassinervis* Nees, Syn. Hepat. 4: 589, 1846 (Gottsche et al. 1846).
 *** *Dendroceros crispatus* (Hook.) Nees, Syn. Hepat. 4: 579, 1846 (Gottsche et al. 1846). Bas.: *Monoclea crispata* Hook., Bot. Misc. 1: 117, 1830 (Hooker 1830).
 ** *Dendroceros crispatus* var. *simplicior* Spruce, Trans. & Proc. Bot. Soc. Edinburgh 15: 574, 1885 (Spruce 1885).
 ** *Dendroceros cucullatus* Steph., Sp. Hepat. (Stephani) 6: 429, 1923 (Stephani 1923).¹⁶
 * *Dendroceros exalatus* Steph., Sitzungsber. Naturf. Ges. Leipzig 36: 14, 1909 (Stephani 1909c).¹⁷
 * *Dendroceros gracilis* Steph., Sp. Hepat. (Stephani) 5: 1015, 1917 (Stephani 1917b).
 *** *Dendroceros granulatus* Mitt., Fl. vit.: 419, 1871 [1873] (Mitten 1871).
 ** *Dendroceros herasii* M.Infante, J. Bryol. 32 (4): 285, 2010 (Infante 2010).
 ** *Dendroceros humboldtensis* Hürl., Bauhinia 1 (3): 254, 1960 (Hürlimann 1960).
 ** *Dendroceros paivae* C.A.Garcia, Sérgio et J.C.Villarreal, Cryptog. Bryol. 33 (1): 5, 2012 (Garcia et al. 2012).

15 *Dendroceros adglutinatus* is conspecific with *Dendroceros crispus* in Proskauer (1960), but later authors accept it.

16 *Dendroceros cucullatus* was treated as conspecific with *Dendroceros difficilis* by Hasegawa (1980), but re-instated by Chantanaorrapint et al. (2014).

17 *Dendroceros exalatus* was reported from the Moluccas in Stephani (1909c), but Hasegawa (1980) states that this is a Brazilian species. *Dendroceros* has not been recently revised for Brazil.

- * *Dendroceros rarus* Steph., Sp. Hepat. (Stephani) 5: 1014, 1917 (Stephani 1917b).
- * *Dendroceros reticulatus* Herzog, Memoranda Soc. Fauna Fl. Fennica 26: 37, 1950 [1951] (Herzog 1950b).¹⁸
- ** *Dendroceros rigidus* Steph., Sp. Hepat. (Stephani) 5: 1017, 1917 (Stephani 1917b).
- *** *Dendroceros seramensis* J.Haseg., Acta Phytotax. Geobot. 37 (1/3): 10, 1986 (Hasegawa 1986a).
- ** *Dendroceros subtropicus* C.J.Wild, Trans. Nat. Hist. Soc. Queensland 1: 49, 1893 (Wild 1893).
- ** *Dendroceros tabitensis* Ångstr., Öfvers. Kongl. Vetensk.-Akad. Förh. 30 (5): 138, 1873 (Ångström 1873).
- *** **Megaceros Campb.**, Ann. Bot. (Oxford) 21 (4): 484, 1907 (Campbell 1907).
- ** *Megaceros aneuriformis* Steph., Sp. Hepat. (Stephani) 5: 949, 1916 (Stephani 1916b).
- *** *Megaceros austronesophilus* Cargill et Seppelt, Austral. Syst. Bot. 26 (5): 372, 2013 (Cargill et al. 2013a).
- ** *Megaceros ciliatus* K.I.Goebel, Ann. Jard. Bot. Buitenzorg 39: 74, 1928 (Goebel 1928).
- *** *Megaceros denticulatus* (Lehm.) Steph., Sp. Hepat. (Stephani) 5: 956, 1916 (Stephani 1916b). Bas.: *Anthoceros denticulatus* Lehm., Nov. Stirp. Pug. 10: 25, 1857 (Lehmann 1857).
- *** *Megaceros flagellaris* (Mitt.) Steph., Sp. Hepat. (Stephani) 5: 951, 1916 (Stephani 1916b). Bas.: *Anthoceros flagellaris* Mitt., Fl. vit.: 419, 1871 [1873] (Mitten 1871).
- *** *Megaceros gracilis* (Reichardt) Steph., Sp. Hepat. (Stephani) 5: 955, 1916 (Stephani 1916b). Bas.: *Anthoceros gracilis* Reichardt, Verh. K.K. Zool.-Bot. Ges. Wien 16: 957, 1866 (Reichardt 1866).
- ** *Megaceros leptohymenius* (Hook.f. et Taylor) Steph., Sp. Hepat. (Stephani) 5: 955, 1916 (Stephani 1916b). Bas.: *Monoclea leptohymenia* Hook.f. et Taylor, London J. Bot. 3: 575, 1844 (Hooker and Taylor 1844d).
- *** *Megaceros pellucidus* (Colenso) E.A.Hodgs., J. Roy. Soc. New Zealand 2 (1): 115, 1972 (Hodgson 1972). Bas.: *Anthoceros pellucidus* Colenso, Trans. & Proc. New Zealand Inst. 17: 263, 1885 (Colenso 1885).
- ** *Megaceros tjibodensis* Campb., Ann. Bot. (Oxford) 21 (4): 484, 1907 (Campbell 1907).

Excluded from the genus¹⁹

- * *Megaceros flavens* (Spruce) Campb., Ann. Bot. (Oxford) 21 (4): 483, 1907 (Campbell 1907). Bas.: *Anthoceros flavens* Spruce, Trans. & Proc. Bot. Soc. Edinburgh 15: 575, 1885 (Spruce 1885).
- * *Megaceros jamesonii* (Taylor) Steph., Biblioth. Bot. 87 (2): 268, 1916 (Stephani 1916a). Bas.: *Dendroceros jamesonii* Taylor, London J. Bot. 7: 285, 1848 (Taylor 1848b).

18 *Dendroceros reticulatus* was mentioned by Hasegawa (1980). He did not synonymise it with *Dendroceros javanicus*, he just stated that Herzog thought it similar to *Dendroceros elegans* which is conspecific with *Dendroceros javanicus*.

19 *Megaceros flavens* and *Megaceros jamesonii* are probably conspecific with *Nothoceros vincentianus* (Villarreal et al. 2010a).

- *** *Nothoceros* (R.M.Schust.) J.Haseg., J. Hattori Bot. Lab. 76: 32, 1994 (Hasegawa 1994b). Bas.: *Megaceros* subg. *Nothoceros* R.M.Schust., Phytologia 63 (3): 200, 1987 (Schuster 1987b).
- *** *Nothoceros aenigmaticus* J.C.Villarreal et K.D.McFarland, Bryologist 113 (1): 109, 2010 (Villarreal et al. 2010b). Based on: *Megaceros aenigmaticus* R.M.Schust., Hepat. Anthocerotae N. Amer. 6: 830, 1992 (Schuster 1992d), *nom. inval.*
- *** *Nothoceros canaliculatus* (Pagán) J.C.Villarreal, Hässel et N.Salazar, Bryologist 110 (2): 283, 2007 (Villarreal et al. 2007). Bas.: *Dendroceros canaliculatus* Pagán, Bryologist 45 (4): 111, 1942 (Pagán 1942a).
- *** *Nothoceros endiviifolius* (Mont.) J.Haseg. ex J.C.Villarreal, Hässel et N.Salazar, Bryologist 110 (2): 283, 2007 (Villarreal et al. 2007). Bas.: *Anthoceros endiviifolius* Mont., Voy. Pole Sud, Bot. 1: 211, 1845 (Montagne 1845c).
- ** *Nothoceros fuegiensis* (Steph.) J.C.Villarreal, Bryologist 113 (1): 109, 2010 (Villarreal et al. 2010b). Bas.: *Megaceros fuegiensis* Steph., Kungl. Svenska Vetensk.-Akad. Handl. (n.ser.) 46 (9): 91, 1911 (Stephani 1911b).
- *** *Nothoceros giganteus* (Lehm. et Lindenb.) J.Haseg. ex J.C.Villarreal, Hässel et N.Salazar, Bryologist 110 (2): 283, 2007 (Villarreal et al. 2007). Bas.: *Anthoceros giganteus* Lehm. et Lindenb., Nov. Stirp. Pug. 4: 25, 1832 (Lehmann 1832).
- *** *Nothoceros minarum* (Nees) J.C.Villarreal, Molec. Phylogen. Evol. 78: 34, 2014 (Villarreal and Renner 2014). Bas.: *Anthoceros minarum* Nees, Naturgesch. Eur. Leberm. 4: 340, 1838 (Nees 1838a).
- ** *Nothoceros renzagliensis* J.C.Villarreal, L.V.Campos et Uribe, Syst. Bot. 37 (1): 32, 2012 (Villarreal et al. 2012).
- *** *Nothoceros schizophyllus* (Steph.) J.C.Villarreal, Molec. Phylogen. Evol. 78: 34, 2014 (Villarreal and Renner 2014). Bas.: *Megaceros schizophyllus* Steph., Sp. Hepat. (Stephani) 5: 949, 1916 (Stephani 1916b).
- *** *Nothoceros superbus* J.C.Villarreal, Hässel et N.Salazar, Bryologist 110 (2): 280, 2007 (Villarreal et al. 2007).
- *** *Nothoceros vincentianus* (Lehm. et Lindenb.) J.C.Villarreal, Bryologist 113 (1): 111, 2010 (Villarreal et al. 2010b). Bas.: *Anthoceros vincentianus* Lehm. et Lindenb., Nov. Stirp. Pug. 6: 16, 1834 (Lehmann 1834).
- ** *Phaeomegaceros* R.J.Duff, J.C.Villarreal, Cargill et Renzaglia, Bryologist 110 (2): 241, 2007 (Duff et al. 2007).
- *** *Phaeomegaceros coriaceus* (Steph.) R.J.Duff, J.C.Villarreal, Cargill et Renzaglia, Bryologist 110 (2): 241, 2007 (Duff et al. 2007). Bas.: *Anthoceros coriaceus* Steph., Sp. Hepat. (Stephani) 5: 991, 1916 (Stephani 1916b).
- *** *Phaeomegaceros fimbriatus* (Gottsche) R.J.Duff, J.C.Villarreal, Cargill et Renzaglia, Bryologist 110 (2): 241, 2007 (Duff et al. 2007). Bas.: *Anthoceros fimbriatus* Gottsche, Ann. Sci. Nat. Bot. (sér. 5) 1: 187, 1864 (Gottsche 1864).
- *** *Phaeomegaceros foveatus* (J.Haseg.) J.C.Villarreal, Nova Hedwigia 91 (3/4): 352, 2010 (Villarreal et al. 2010a). Bas.: *Phaeoceros foveatus* J.Haseg., Bryol. Res. 7 (12): 374, 2001 (Hasegawa 2001).

- *** *Phaeomegaceros hirticalyx* (Steph.) R.J.Duff, J.C.Villarreal, Cargill et Renzaglia, *Bryologist* 110 (2): 241, 2007 (Duff et al. 2007). Bas.: *Aspiromitus hirticalyx* Steph., *Sp. Hepat. (Stephani)* 5: 966, 1916 (Stephani 1916b).
- *** *Phaeomegaceros plicatus* (Mitt.) J.C.Villarreal, J.J.Engel et Váňa, *Mem. New York Bot. Gard.* 105: 85, 2013 (Váňa and Engel 2013). Bas.: *Anthoceros plicatus* Mitt., *Rep. Challenger, Bot.* 1 (2): 178, 1884 (Mitten 1884a).
- *** *Phaeomegaceros skottsbergii* (Steph.) R.J.Duff, J.C.Villarreal, Cargill et Renzaglia, *Bryologist* 110 (2): 241, 2007 (Duff et al. 2007). Bas.: *Anthoceros skottsbergii* Steph., *Kungl. Svenska Vetensk.-Akad. Handl. (n.ser.)* 46 (9): 90, 1911 (Stephani 1911b).
- *** *Phaeomegaceros squamuliger* (Spruce) J.C.Villarreal, *Nova Hedwigia* 91 (3/4): 351, 2010 (Villarreal et al. 2010a). Bas.: *Anthoceros squamuliger* Spruce, *Trans. & Proc. Bot. Soc. Edinburgh* 15: 576, 1885 (Spruce 1885).
- ** *Phaeomegaceros squamuliger* subsp. *hassellii* J.C.Villarreal, Cargill et Goffinet, *Nova Hedwigia* 91 (3/4): 352, 2010 (Villarreal et al. 2010a).

Phymatocerotales R.J.Duff, J.C.Villarreal, Cargill et Renzaglia

*** Phymatocerotaceae R.J.Duff, J.C.Villarreal, Cargill et Renzaglia

by J.C. Villarreal and D.C. Cargill

- *** *Phymatoceros* Stotler, W.T.Doyle et Crand.-Stotl., *Phytologia* 87 (2): 113, 2005 (Stotler et al. 2005).
- *** *Phymatoceros bulbiculosus* (Brot.) Stotler, W.T.Doyle et Crand.-Stotl., *Phytologia* 87 (2): 114, 2005 (Stotler et al. 2005). Bas.: *Anthoceros bulbiculosus* Brot., *Fl. lusit.* 2: 430, 1804 [1805] (Brotero 1804).
- *** *Phymatoceros phymatodes* (M.Howe) R.J.Duff, J.C.Villarreal, Cargill et Renzaglia, *Bryologist* 110 (2): 240, 2007 (Duff et al. 2007). Bas.: *Anthoceros phymatodes* M.Howe, *Bull. Torrey Bot. Club* 25 (1): 12, 1898 (Howe 1898a).

Notothyliatidae R.J.Duff, J.C.Villarreal, Cargill et Renzaglia

Notothyladales Hyvönen et Piippo

*** Notothyladaceae Müll.Frib. ex Prosk.

by J.C. Villarreal and D.C. Cargill

** Notothyladoideae Grolle

*** *Notothylas* Sull. ex A.Gray, Amer. J. Sci. Arts (ser. 2) 1 (1): 74, 1846 (Gray 1846).

** subg. *Notothylas*

*** *Notothylas anaporata* Udar et D.K.Singh, Rev. Bryol. Lichénol. 45 (2): 202, 1979 (Udar and Singh 1979b).

*** *Notothylas breutelii* (Gottsche) Gottsche, Bot. Zeitung (Berlin) Beil. 16: 21, 1858 (Gottsche 1858). Bas.: *Anthoceros breutelii* Gottsche, Syn. Hepat. 4: 583, 1846 (Gottsche et al. 1846).

*** *Notothylas depressispora* J.Haseg., Acta Phytotax. Geobot. 30 (1/3): 26, 1979 (Hasegawa 1979).

*** *Notothylas dissecta* Steph., Sp. Hepat. (Stephani) 5: 1020, 1917 (Stephani 1917b).

*** *Notothylas himalayensis* Udar et D.K.Singh, J. Bryol. 11 (3): 451, 1981 (Udar and Singh 1981a).

*** *Notothylas indica* Kashyap, Proc. Lahore Philos. Soc. 4: 54, 1925 (Kashyap and Dutt 1925).

*** *Notothylas javanica* (Sande Lac.) Gottsche, Bot. Zeitung (Berlin) Beil. 16: 20, 1858 (Gottsche 1858). Bas.: *Blasia javanica* Sande Lac., Syn. hepat. jav.: 94, 1856 [1857] (Sande Lacoste 1856b).

*** *Notothylas orbicularis* (Schwein.) Sull., Amer. J. Sci. Arts (ser. 2) 1 (1): 75, 1846 (Gray 1846). Bas.: *Targionia orbicularis* Schwein., Spec. Fl. Amer. Crypt.: 23, 1821 (Schweinitz 1821).

*** *Notothylas pandei* Udar et V.Chandra, Geophytology 7 (2): 142, 1977 (Udar and Chandra 1977).

** subg. *Notothyloides* A.K.Asthana et S.C.Srivast., Bryophyt. Biblioth. 42: 106, 1991 (Asthana and Srivastava 1991).

*** *Notothylas khasiana* Udar et D.K.Singh, J. Indian Bot. Soc. 60: 112, 1981 (Udar and Singh 1981b).

*** *Notothylas pfliedereri* Udar et D.K.Singh, Lindbergia 5 (1): 28, 1979 (Udar and Singh 1979a).

Incertae sedis

*** *Notothylas decurva* (Mitt.) Steph., Cat. Afr. Pl. (Hiern) 2 (2): 320, 1901 (Stephani 1901d). Bas.: *Anthoceros decurvus* Mitt., Trans. Linn. Soc. London 23 (1): 58, 1860 (Mitten 1860a).

*** *Notothylas flabellata* Steph., Cat. Afr. Pl. (Hiern) 2 (2): 320, 1901 (Stephani 1901d).

*** *Notothylas galapagensis* M.Howe, Proc. Calif. Acad. Sci. (ser. 4) 21 (17): 203, 1934 (Howe 1934).

** *Notothylas irregularis* Chantanaorr., Acta Bot. Hung. 56 (3/4): 270, 2014 (Chantanaorrappint 2014).

- *** *Notothylias kashyapii* D.K.Singh, Indian J. Forest. 23 (4): 386, 2000 (Singh and Semwal 2000).
- *** *Notothylias nepalensis* D.K.Singh, J. Bombay Nat. Hist. Soc. 84 (3): 650, 1987 [1988] (Singh 1987a).
- *** *Notothylias temperata* J.Haseg., Acta Phytotax. Geobot. 30 (1/3): 20, 1979 (Hasegawa 1979).
- *** *Notothylias udarii* D.K.Singh et Semwal, Phytotaxonomy 1: 35, 2001 (Singh and Semwal 2001).
- * *Notothylias verdoornii* Khanna, Rev. Bryol. Lichénol. 6: 118, 1933 (Khanna 1933).
- *** *Notothylias vitalii* Udar et D.K.Singh, Misc. Bryol. Lichenol. 8 (9): 173, 1980 (Udar and Singh 1980).
- ** *Notothylias yunnanensis* T.Peng et R.L.Zhu, Phytotaxa 156 (3): 157, 2014 (Peng and Zhu 2014).

*** **Phaeoceroideae** Hässel

- * **Mesoceros Piippo**, Acta Bot. Fenn. 148: 30, 1993 (Piippo 1993b).²⁰
- * *Mesoceros mesophoros* Piippo, Acta Bot. Fenn. 148: 30, 1993 (Piippo 1993b).
- * *Mesoceros porcatus* Piippo, Haussknechtia, Beih. 9: 279, 1999 (Piippo 1999).
- ** **Paraphymatoceros Hässel**, Phytologia 88 (2): 208, 2006 (Hässel 2006a).
- *** *Paraphymatoceros diadematus* Hässel, Phytologia 88 (2): 209, 2006 (Hässel 2006a).
- *** *Paraphymatoceros hallii* (Austin) Hässel, Phytologia 88 (2): 209, 2006 (Hässel 2006a). Bas.: *Anthoceros hallii* Austin, Bull. Torrey Bot. Club 6 (4): 26, 1875 [1876] (Austin 1875a).
- *** *Paraphymatoceros pearsonii* (M.Howe) J.C.Villarreal et Cargill, Phytotaxa 208 (1): 94, 2015 (Villarreal et al. 2015). Bas.: *Anthoceros pearsonii* M.Howe, Bull. Torrey Bot. Club 25 (1): 8, 1898 (Howe 1898a).
- *** *Paraphymatoceros proskaueri* (Stotler, Crand.-Stotl. et W.T.Doyle) J.C.Villarreal et Cargill, Phytotaxa 208 (1): 94, 2015 (Villarreal et al. 2015). Bas.: *Phaeoceros proskaueri* Stotler, Crand.-Stotl. et W.T.Doyle, Fieldiana, Bot. (n.ser.) 47: 232, 2008 (Crandall-Stotler et al. 2008a).
- *** **Phaeoceros Prosk.**, Bull. Torrey Bot. Club 78 (4): 346, 1951 (Proskauer 1951a).
- ** *Phaeoceros austroandinus* Hässel, Candollea 44 (2): 721, 1989 (Hässel 1989a).
- ** *Phaeoceros bolusii* (Sim) S.W.Arnell, Hepat. South Africa: 401, 1963 (Arnell 1963b). Bas.: *Anthoceros bolusii* Sim, Trans. Roy. Soc. South Africa 15 (1): 114, 1926 (Sim 1926).

²⁰ *Mesoceros* was described from a collection that contains a mixture of both *Anthoceros* and *Phaeoceros* material.

- ** *Phaeoceros brevicapsulus* (Steph.) Hässel, Candollea 44 (2): 725, 1989 (Hässel 1989a). Bas.: *Anthoceros brevicapsulus* Steph., Sp. Hepat. (Stephani) 5: 981, 1916 (Stephani 1916b).
- *** *Phaeoceros carolinianus* (Michx.) Prosk., Bull. Torrey Bot. Club 78 (4): 347, 1951 (Proskauer 1951a). Bas.: *Anthoceros carolinianus* Michx., Fl. bor.-amer. (Michaux) 2: 280, 1803 (Michaux 1803).
- *** *Phaeoceros delicatus* E.O.Campb. et Outred, New Zealand J. Bot. 33 (3): 285, 1995 (Campbell and Outred 1995).
- *** *Phaeoceros dendrocerooides* (Steph.) Hässel, Beih. Nova Hedwigia 134: 487, 2009 (Hässel and Rubies 2009). Bas.: *Anthoceros dendrocerooides* Steph., Sp. Hepat. (Stephani) 5: 984, 1916 (Stephani 1916b).²¹
- *** *Phaeoceros engelii* Cargill et Fuhrer, Fieldiana, Bot. (n.ser.) 47: 248, 2008 (Cargill and Fuhrer 2008).
- ** *Phaeoceros erectus* Udari et D.K.Singh, Geophytology 11 (2): 257, 1981 (Udari and Singh 1981c). *Nom. nov. pro Anthoceros erectus* Steph., Sp. Hepat. (Stephani) 5: 984, 1916 (Stephani 1916b), *nom. illeg.*
- *** *Phaeoceros evanidus* (Steph.) Cargill et Fuhrer, Fieldiana, Bot. (n.ser.) 47: 245, 2008 (Cargill and Fuhrer 2008). Bas.: *Anthoceros evanidus* Steph., Sp. Hepat. (Stephani) 5: 990, 1916 (Stephani 1916b).
- *** *Phaeoceros exiguus* (Steph.) J.Haseg., J. Hattori Bot. Lab. 60: 387, 1986 (Hasegawa 1986b). Bas.: *Anthoceros exiguus* Steph., Sp. Hepat. (Stephani) 5: 988, 1916 (Stephani 1916b).
- *** *Phaeoceros flexivalvis* (Gottsche et Nees) Hässel, Candollea 44 (2): 728, 1989 (Hässel 1989a). Bas.: *Anthoceros flexivalvis* Gottsche et Nees, Syn. Hepat. 4: 586, 1846 (Gottsche et al. 1846).
- *** *Phaeoceros fulvisporus* (Steph.) J.Haseg., Trop. Bryol. 8: 52, 1993 (Hasegawa 1993a). Bas.: *Anthoceros fulvisporus* Steph., 52 (5): 306, 1912 (Stephani 1912a).
- *** *Phaeoceros gemmifer* (Horik.) J.Haseg., J. Hattori Bot. Lab. 57: 252, 1984 (Hasegawa 1984). Bas.: *Anthoceros gemmifer* Horik., Sci. Rep. Tôhoku Imp. Univ., Ser. 4, Biol. 4 (2): 426, 1929 (Horikawa 1929a).
- ** *Phaeoceros gualaquizanus* (Steph.) Gradst., J. Hattori Bot. Lab. 45: 123, 1979 (Gradstein and Hekking 1979). Bas.: *Anthoceros gualaquizanus* Steph., Sp. Hepat. (Stephani) 5: 979, 1916 (Stephani 1916b).
- *** *Phaeoceros himalayensis* (Kashyap) Prosk. ex Bapna et G.G.Vyas, J. Hattori Bot. Lab. 25: 88, 1962 (Bapna and Vyas 1962). Bas.: *Anthoceros himalayensis* Kashyap, New Phytol. 14 (1): 8, 1915 (Kashyap 1915).
- *** *Phaeoceros huebschmannii* Hässel, Veröff. Geobot. Inst. ETH Stiftung Rübel Zürich 91: 301, 1986 (Hässel 1986b).
- *** *Phaeoceros inflatus* (Steph.) Cargill et Fuhrer, Fieldiana, Bot. (n.ser.) 47: 246, 2008 (Cargill and Fuhrer 2008). Bas.: *Anthoceros inflatus* Steph., Sp. Hepat. (Stephani) 5: 990, 1916 (Stephani 1916b).

²¹ *Phaeoceros dendrocerooides* may belong to *Phaeomegaceros*

- *** *Phaeoceros kashyapii* A.K.Asthana et S.C.Srivast., Bryophyt. Biblioth. 42: 129, 1991 (Asthana and Srivastava 1991).
- *** *Phaeoceros laevis* (L.) Prosk., Bull. Torrey Bot. Club 78 (4): 347, 1951 (Proskauer 1951a). Bas.: *Anthoceros laevis* L., Sp. Pl. 1: 1139, 1753 (Linnaeus 1753).
- ** *Phaeoceros maranguensis* (Steph.) Bapna, Univ. Udaipur Res. Stud. 3: 138, 1966 (Bapna 1966). Bas.: *Aspiromitus maranguensis* Steph., Sp. Hepat. (Stephani) 5: 960, 1916 (Stephani 1916b).
- * *Phaeoceros microsporus* (Steph.) Hässel, Candollea 44 (2): 721, 1989 (Hässel 1989a). Bas.: *Aspiromitus microsporus* Steph., Sp. Hepat. (Stephani) 5: 963, 1916 (Stephani 1916b).²²
- *** *Phaeoceros minutus* (Mitt.) S.W.Arnell, Hepat. South Africa: 403, 1963 (Arnell 1963b). Bas.: *Anthoceros minutus* Mitt., J. Linn. Soc., Bot. 16 (91): 195, 1877 (Mitten 1877).
- *** *Phaeoceros mohrii* (Austin) Hässel, Candollea 44 (2): 721, 1989 (Hässel 1989a). Bas.: *Anthoceros mohrii* Austin, Bull. Torrey Bot. Club 6 (52): 304, 1879 (Austin 1879).
- *** *Phaeoceros oreganus* (Austin) Hässel, Candollea 44 (2): 718, 1989 (Hässel 1989a). Bas.: *Anthoceros oreganus* Austin, Bull. Torrey Bot. Club 6 (4): 26, 1875 [1876] (Austin 1875a).
- *** *Phaeoceros parvulus* (Schiffn.) J.Haseg., J. Hattori Bot. Lab. 57: 248, 1984 (Hasegawa 1984). Bas.: *Anthoceros parvulus* Schiffn., Österr. Bot. Z. 49 (11): 391, 1899 (Schiffner 1899c).
- *** *Phaeoceros perpusillus* Chantanaorr., Acta Bot. Hung. 51 (1/2): 30, 2009 (Chantanaorrappint 2009).
- ** *Phaeoceros pichinchensis* (Spruce) Hässel, Candollea 44 (2): 725, 1989 (Hässel 1989a). Bas.: *Anthoceros pichinchensis* Spruce, Trans. & Proc. Bot. Soc. Edinburgh 15: 577, 1885 (Spruce 1885).
- ** *Phaeoceros propagulifer* (Steph.) Prosk., Bull. Torrey Bot. Club 78 (4): 347, 1951 (Proskauer 1951a). Bas.: *Anthoceros propagulifer* Steph., Sp. Hepat. (Stephani) 5: 1001, 1916 (Stephani 1916b).
- * *Phaeoceros striatisporus* J.Haseg., J. Hattori Bot. Lab. 75, 268 (Hasegawa 1994a).²³
- *** *Phaeoceros tenuis* (Spruce) Hässel, Veröff. Geobot. Inst. ETH Stiftung Rübel Zürich 91: 303, 1986 (Hässel 1986b). Bas.: *Anthoceros tenuis* Spruce, Bull. Soc. Bot. France (Congr. Bot.) 36: cxvii, 1889 [1890] (Spruce 1889).
- ** *Phaeoceros tigrinus* (Gola) J.C.Villarreal, Phytotaxa 208 (1): 95, 2015 (Villarreal et al. 2015). Bas.: *Anthoceros tigrinus* Gola, Ann. Bot. (Rome) 13 (1): 72, 1914 (Gola 1914a).
- *** *Phaeoceros tuberosus* (Taylor) Prosk., J. Indian Bot. Soc. 42A: 185, 1964 (Proskauer 1964). Bas.: *Anthoceros tuberosus* Taylor, London J. Bot. 5: 412, 1846 (Taylor 1846b).
- *** *Phaeoceros udarii* A.K.Asthana et V.Nath, Proc. Natl. Acad. Sci. India, B 63 (4): 461, 1993 (Asthana and Nath 1993).
- ** *Phaeoceros wrightii* (Steph.) Hässel, Candollea 44 (2): 722, 1989 (Hässel 1989a). Bas.: *Anthoceros wrightii* Steph., Sp. Hepat. (Stephani) 5: 999, 1916 (Stephani 1916b).

22 *Phaeoceros microsporus* may be conspecific with *Phaeoceros mohrii* in Schuster (1992d), but he did not study any material.

23 *Phaeoceros striatisporus* was nested within *Phaeoceros* in Li et al. (2011). Morphologically it was supposed to differ by its unique spores which, however, turns out to be fungal infections (Villarreal & Renner 2012).

LEIOSPOROCEROTOPSIDA Stotler et Crand.-Stotl.

Leiosporocerotales Hässel

*** Leiosporocerotaceae Hässel ex Ochyra

by J.C. Villarreal and D.C. Cargill

*** *Leiosporoceros* Hässel, J. Bryol. 14 (2): 255, 1986 (Hässel 1986a).

*** *Leiosporoceros dussii* (Steph.) Hässel, J. Bryol. 14 (2): 255, 1986 (Hässel 1986a).
Bas.: *Anthoceros dussii* Steph., Hedwigia 32 (3): 142, 1893 (Stephani 1893b).

MARCHANTIOPHYTA

HAPLOMITRIOPSISIDA Stotler et Crand.-Stotl.

Haplomitriidae Stotler et Crand.-Stotl.

Calobryales Hamlin

*** Haplomitriaceae Dědeček

by S. Bartholomew-Began

The treatment of Haplomitriaceae follows Bartholomew-Began (1991). Morphogenetic and molecular studies support the infrageneric ranks of *Haplomitrium* (Crandall-Stotler et al. 2009, Forrest et al. 2006).

*** *Haplomitrium* Nees, Naturgesch. Eur. Leberm. 1: 109, 1833 (Nees 1833c) nom. conserv.

*** **subg. *Calobryum* (Nees) R.M.Schust.**, Nova Hedwigia 13 (1/2): 40, 1967 (Schuster 1967c). Bas.: *Calobryum* Nees, Syn. Hepat. 4: 507, 1846 (Gottsche et al. 1846).

*** *Haplomitrium blumei* (Nees) R.M.Schust., J. Hattori Bot. Lab. 26: 225, 1963 (Schuster 1963b). Bas.: *Monoclea blumei* Nees, Enum. Pl. Crypt. Javae: 2, 1830 (Nees 1830).

*** *Haplomitrium mnioides* (Lindb.) R.M.Schust., J. Hattori Bot. Lab. 26: 225, 1963 (Schuster 1963b). Bas.: *Rhopalanthus mnioides* Lindb., Not. Sällsk. Fauna Fl. Fenn. Förh. 13: 391, 1874 (Lindberg 1874a).

*** **subg. *Haplomitrium***

** **sect. *Archibryum* (R.M.Schust.) J.J.Engel**, Ann. Missouri Bot. Gard. 68 (4): 675, 1981 (Engel 1981). Bas.: *Haplomitrium* subg. *Archibryum* R.M.Schust., Nova Hedwigia 13 (1/2): 28, 1967 (Schuster 1967c).

- *** *Haplomitrium gibbsiae* (Steph.) R.M.Schust., J. Hattori Bot. Lab. 26: 225, 1963 (Schuster 1963b). Bas.: *Calobryum gibbsiae* Steph., Sp. Hepat. (Stephani) 6: 76, 1917 (Stephani 1917a).
- *** *Haplomitrium intermedium* Berrie, Proc. Linn. Soc. New South Wales (ser. 2) 87 (399): 191, 1963 (Berrie 1963).
- ** **sect. *Haplomitrium***
- *** *Haplomitrium hookeri* (Lyell ex Sm.) Nees, Naturgesch. Eur. Leberm. 1: 111, 1833 (Nees 1833c). Bas.: *Jungermannia hookeri* Lyell ex Sm., Engl. Bot. 35: tab. 2555, 1814 (Smith and Sowerby 1814).
- *** *Haplomitrium hookeri* var. *minutum* (E.O.Campb.) Barthol.-Began, Bryophyt. Biblioth. 41: 230, 1991 (Bartholomew-Began 1991). Bas.: *Steereomitrium minutum* E.O.Campb., Mem. New York Bot. Gard. 45: 569, 1987 (Campbell 1987).
- *** *Haplomitrium monoicum* J.J.Engel, Ann. Missouri Bot. Gard. 68 (4): 668, 1981 [1982] (Engel 1981).
- *** *Haplomitrium ovalifolium* R.M.Schust., Bryologist 74 (2): 136, 1971 (Schuster 1971d).

Treubiidae Stotler et Crand.-Stotl.

Treubiales Schljakov

*** Treubiaceae Verd.

by R. Stotler and B.J. Crandall-Stotler

Stech et al. (2002) showed a clear molecular distinction between *Treubia* and *Apotreubia*, which is in accordance with their morphological differences and supports their recognition as separate genera.

- *** ***Apotreubia* S.Hatt. et Mizut.**, Bryologist 69 (4): 491, 1966 [1967] (Hattori et al. 1966).
- *** *Apotreubia hortoniae* Konstant., Phytotaxa 76 (3): 33, 2013 (Konstantinova et al. 2013b). Based on: *Apotreubia hortoniae* R.M.Schust. et Konstant., J. Hattori Bot. Lab. 78: 55, 1995 (Schuster and Konstantinova 1995), *nom. inval.*
- *** *Apotreubia nana* (S.Hatt. et Inoue) S.Hatt. et Mizut., Bryologist 69 (4): 492, 1966 [1967] (Hattori et al. 1966). Bas.: *Treubia nana* S.Hatt. et Inoue, J. Hattori Bot. Lab. 11: 99, 1954 (Hattori and Inoue 1954).
- ** *Apotreubia pusilla* (R.M.Schust.) Grolle, Acta Bot. Fenn. 125: 63, 1984 (Grolle and Piippo 1984). Bas.: *Treubia pusilla* R.M.Schust., Nova Hedwigia 15: 515, 1968 (Schuster 1968b).

- *** *Apotreubia yunnanensis* Higuchi, Cryptog. Bryol. Lichénol. 19 (4): 321, 1998 (Higuchi 1998).
- *** ***Treubia* K.I.Goebel**, Ann. Jard. Bot. Buitenzorg 9 (1): 1, 1890 [1891] (Goebel 1890) nom. conserv.
- *** *Treubia insignis* K.I.Goebel, Ann. Jard. Bot. Buitenzorg 9 (1): 1, 1890 [1891] (Goebel 1890).
- ** *Treubia insignis* subsp. *bracteata* (Steph.) R.M.Schust. et G.A.M.Scott, J. Hattori Bot. Lab. 32: 241, 1969 (Schuster and Scott 1969). Bas.: *Treubia bracteata* Steph., Bot. Jahrb. Syst. 23 (1/2, 3): 302, 1896 (Stephani 1896a).
- ** *Treubia insignis* subsp. *caledonica* R.M.Schust. et G.A.M.Scott, J. Hattori Bot. Lab. 32: 243, 1969 (Schuster and Scott 1969).
- ** *Treubia insignis* subsp. *vitiensis* R.M.Schust. et G.A.M.Scott, J. Hattori Bot. Lab. 32: 242, 1969 (Schuster and Scott 1969).
- *** *Treubia lacunosa* (Colenso) Prosk., Bryologist 58 (3): 199, 1955 (Proskauer 1955). Bas.: *Noteroclada lacunosa* Colenso, Trans. & Proc. New Zealand Inst. 18: 248, 1886 (Colenso 1886b).
- ** *Treubia lacunosoides* T.Pfeiff., W.Frey et M.Stech, Nova Hedwigia 75 (1/2): 249, 2002 (Pfeiffer et al. 2002).
- *** *Treubia pygmaea* R.M.Schust., Phytologia 56 (7): 460, 1985 (Schuster 1985c).
- *** *Treubia scapanioides* R.M.Schust., J. Hattori Bot. Lab. 32: 246, 1969 (Schuster and Scott 1969).
- *** *Treubia tahitensis* (Nadeaud) Besch., J. Bot. (Morot) 12: 147, 1898 (Bescherelle 1898). Bas.: *Gottschea tahitensis* Nadeaud, Énum. Pl. Tahiti: 7, 1873 (Nadeaud 1873).
- *** *Treubia tasmanica* R.M.Schust. et G.A.M.Scott, J. Hattori Bot. Lab. 32: 248, 1969 (Schuster and Scott 1969).

JUNGERMANNIOPSISIDA Stotler et Crand.-Stotl.

Jungermanniidae Engl.

Jungermanniales H.Klinggr.

Cephaloziineae Schljakov

*** Adelanthaceae Grolle

by K. Feldberg, J. Váňa and J. Heinrichs

The subfamily Jamesonielloideae was excluded from Lophoziaceae/Scapaniaceae by De Roo et al. (2007) and this status was confirmed by e.g. Vilnet et al. (2010). The family was described and defined by Feldberg et al. (2010a). Some taxonomic and nomenclatural notes can also be found in Feldberg et al. (2010b, 2011), Váňa et al. (2014d).

*** Adelanthoideae K.Feldberg, Heinrichs et Váňa

*** *Adelanthus* Mitt., J. Proc. Linn. Soc., Bot. 7 (28): 243, 1864 (Mitten 1864b) nom. conserv.

** sect. *Adelanthus*

*** *Adelanthus falcatus* (Hook.) Mitt., J. Proc. Linn. Soc., Bot. 7 (28): 243, 1864 (Mitten 1864b). Bas.: *Jungermannia falcata* Hook., Musci Exot. 1: tab. 89, 1818 (Hooker 1818).

*** *Adelanthus oclusus* (Hook.f. et Taylor) Carrington, Trans. Bot. Soc. Edinburgh 10: 381, 1870 (Carrington 1870). Bas.: *Jungermannia oclusa* Hook.f. et Taylor, London J. Bot. 3: 369, 1844 (Hooker and Taylor 1844a).

** sect. *Calyptrocolea* (R.M.Schust.) Grolle, J. Hattori Bot. Lab. 35: 331, 1972 (Grolle 1972c). Bas.: *Calyptrocolea* R.M.Schust., Rev. Bryol. Lichénol. 34 (3/4): 685, 1966 (Schuster 1966a).

*** *Adelanthus aureomarginatus* R.M.Schust., Phytologia 39 (4): 250, 1978 (Schuster 1978a).

*** *Adelanthus gemmiparus* (R.M.Schust.) E.A.Hodgs., Trans. Roy. Soc. New Zealand, Biol. Sci. 11 (18): 241, 1970 (Hodgson 1970). Bas.: *Calyptrocolea gemmipara* R.M.Schust., Rev. Bryol. Lichénol. 34 (3/4): 695, 1966 [1967] (Schuster 1966a).

** *Adelanthus lingulatus* J.J.Engel et Váňa, Mem. New York Bot. Gard. 105: 26, 2013 (Váňa and Engel 2013).

*** *Adelanthus tenuis* J.J.Engel et Grolle, J. Hattori Bot. Lab. 35: 333, 1972 (Grolle 1972c).

** sect. *Lindenbergiani* Grolle, J. Hattori Bot. Lab. 35: 331, 1972 (Grolle 1972c).

*** *Adelanthus carabayensis* (Mont.) Grolle, J. Hattori Bot. Lab. 35: 348, 1972 (Grolle 1972c). Bas.: *Plagiochila carabayensis* Mont., Ann. Sci. Nat. Bot. (sér. 4) 5: 348, 1856 (Montagne 1856c).

*** *Adelanthus integerrimus* Grolle, J. Hattori Bot. Lab. 35: 340, 1972 (Grolle 1972c).

*** *Adelanthus lindenbergianus* (Lehm.) Mitt., J. Proc. Linn. Soc., Bot. 7 (28): 244, 1864 (Mitten 1864b). Bas.: *Jungermannia lindenbergiana* Lehm., Linnaea 4: 367, 1829 (Lehmann 1829).

** sect. *Pittieri* Grolle, J. Hattori Bot. Lab. 35: 331, 1972 (Grolle 1972c).

*** *Adelanthus pittieri* (Steph.) Grolle, J. Hattori Bot. Lab. 35: 337, 1972 (Grolle 1972c). Bas.: *Tylimanthus pittieri* Steph., Sp. Hepat. (Stephani) 6: 250, 1922 (Stephani 1922).

*** *Adelanthus squarrosus* Grolle, J. Hattori Bot. Lab. 67: 243, 1989 (Grolle 1989d).

- *** *Pseudomarsupidium Herzog*, Svensk Bot. Tidskr. 47 (1): 42, 1953 (Herzog 1953b).
- *** *Pseudomarsupidium aureocinctum* (R.M.Schust.) J.J.Engel, Novon 17 (3): 312, 2007 (Engel 2007). Bas.: *Adelanthus decipiens* subsp. *aureocinctus* R.M.Schust., Phytologia 39 (4): 250, 1978 (Schuster 1978a).
- *** *Pseudomarsupidium borneensis* (Grolle) Váňa, L.Söderstr., A.Hagborg et von Konrat, Phytotaxa 65: 60, 2012 (Váňa et al. 2012f). Bas.: *Adelanthus borneensis* Grolle, J. Hattori Bot. Lab. 35: 362, 1972 (Grolle 1972c).
- *** *Pseudomarsupidium decipiens* (Hook.) Grolle, Trans. Brit. Bryol. Soc. 4 (3): 443, 1963 (Grolle 1963a). Bas.: *Jungermannia decipiens* Hook., Brit. Jungermann.: tab. 50, 1813 (Hooker 1813).
- *** *Pseudomarsupidium piliferum* (Steph.) Herzog ex Grolle, Trans. Brit. Bryol. Soc. 4 (3): 443, 1963 (Grolle 1963a). Bas.: *Marsupidium piliferum* Steph., Bull. Herb. Boissier (sér. 2) 8 (8): 602 (386), 1908 (Stephani 1908e).
- *** *Wettsteinia Schiffn.*, Ann. Jard. Bot. Buitenzorg, suppl. 2: 44, 1898 (Schiffner 1898c).
- *** *Wettsteinia densiretis* (Herzog) Grolle, J. Hattori Bot. Lab. 28: 99, 1965 (Grolle 1965f). Bas.: *Tylimanthus densiretis* Herzog, Nat. Hist. Juan Fernandez (Botany) 2 (5): 712, 1942 (Herzog 1942a).
- *** *Wettsteinia inversa* (Sande Lac.) Schiffn., Ann. Jard. Bot. Buitenzorg, suppl. 2: 45, 1898 (Schiffner 1898c). Bas.: *Plagiochila inversa* Sande Lac., Ann. Mus. Bot. Lugduno-Batavi 1: 289, 1864 (Sande Lacoste 1864).
- *** *Wettsteinia rotundifolia* (Horik.) Grolle, J. Hattori Bot. Lab. 28: 100, 1965 (Grolle 1965f). Bas.: *Adelanthus rotundifolius* Horik., J. Sci. Hiroshima Univ., Ser. B, Div. 2, Bot. 2: 181, 1934 (Horikawa 1934).
- *** *Wettsteinia schusteriana* Grolle, J. Hattori Bot. Lab. 28: 99, 1965 (Grolle 1965f).
- ** Jamesonielloideae Inoue
- *** *Cuspidatula Steph.*, Bull. Herb. Boissier (sér. 2) 1 (10): 1141 (124), 1901 (Stephani 1901c).
- *** *Cuspidatula contracta* (Reinw., Blume et Nees) Steph., Bull. Herb. Boissier (sér. 2) 1 (11): 1141 (124), 1901 (Stephani 1901c). Bas.: *Jungermannia contracta* Reinw., Blume et Nees, Nova Acta Phys.-Med. Acad. Caes. Leop.-Carol. Nat. Cur. 12 (1): 233, 1824 [1825] (Reinwardt et al. 1824a).
- *** *Cuspidatula flaccida* (Steph.) K.Feldberg, Váňa, Hentschel et Heinrichs, Cryptog. Bryol. 31 (2): 142, 2010 (Feldberg et al. 2010b). Bas.: *Anastrophyllum flaccidum* Steph., Sp. Hepat. (Stephani) 6: 105, 1917 (Stephani 1917a).
- *** *Cuspidatula flexicaulis* (Nees) Váňa et L.Söderstr., Phytotaxa 76 (3): 35, 2013 (Váňa et al. 2013h). Bas.: *Jungermannia flexicaulis* Nees, Linnaea 6 (4): 604, 1831 (Nees 1831).

- *** *Cuspidatula kirkii* (Steph.) K.Feldberg, Váňa, Hentschel et Heinrichs, *Cryptog. Bryol.* 31 (2): 142, 2010 (Feldberg et al. 2010b). Bas.: *Jamesoniella kirkii* Steph., *Hedwigia* 34 (2): 47, 1895 (Stephani 1895c).
- *** *Cuspidatula monodon* (Taylor) Steph., *Bull. Herb. Boissier (sér. 2)* 1 (11): 1143 (126), 1901 (Stephani 1901c). Bas.: *Jungermannia monodon* Taylor, *Nov. Stirp. Pug.* 8: 7, 1844 (Lehmann 1844).
- *** *Cuspidatula orbicularis* (Grolle) Váňa et L.Söderstr., *Phytotaxa* 76 (3): 36, 2013 (Váňa et al. 2013h). Bas.: *Jamesoniella orbicularis* Grolle, *Feddes Repert.* 82 (1): 42, 1971 (Grolle 1971b).
- *** *Cuspidatula robusta* (Austin) Váňa et L.Söderstr., *Phytotaxa* 76 (3): 36, 2013 (Váňa et al. 2013h). Bas.: *Jungermannia robusta* Austin, *Proc. Acad. Nat. Sci. Philadelphia* 21: 219, 1869 (Austin 1869).
- ** *Denotarisia Grolle*, *Feddes Repert.* 82 (1): 6, 1971 (Grolle 1971b).
- *** *Denotarisia linguifolia* (De Not.) Grolle, *Feddes Repert.* 82 (1): 6, 1971 (Grolle 1971b). Bas.: *Plagiochila linguifolia* De Not., *Epat. Borneo*: 13, 1874 (De Notaris 1874).
- ** *Nothostrepta R.M.Schust.*, *Phytologia* 45 (5): 420, 1980 (Schuster 1980b).
- *** *Nothostrepta bifida* (Steph.) R.M.Schust., *Phytologia* 45 (5): 420, 1980 (Schuster 1980b). Bas.: *Plagiochila bifida* Steph., *Annuario Reale Ist. Bot. Roma* 2: 86, 1885 [1886] (Stephani 1885d).
- *** *Nothostrepta longissima* (Steph.) R.M.Schust., *Phytologia* 45 (5): 420, 1980 (Schuster 1980b). Bas.: *Anastrophyllum longissimum* Steph., *Bih. Kongl. Svenska Vetensk.-Akad. Handl.* 26 (III, 17): 13, 1901 (Stephani 1901b).
- ** *Pisanoa Hässel*, *Lindbergia* 14 (3): 179, 1988 [1989] (Hässel 1988).
- *** *Pisanoa chilensis* Hässel, *Lindbergia* 14 (3): 179, 1988 [1989] (Hässel 1988).
- ** *Protosyzygiella (Inoue) R.M.Schust.*, *Hepat. Anthocerotae N. Amer.* 4: 334, 1980 (Schuster 1980c). Bas.: *Syzygiella* subg. *Protosyzygiella* Inoue, *J. Hattori Bot. Lab.* 29: 180, 1966 (Inoue 1966c).
- *** *Protosyzygiella pseudoconnexa* (Herzog) R.M.Schust., *Hepat. Anthocerotae N. Amer.* 4: 334, 1980 (Schuster 1980c). Bas.: *Plagiochila pseudoconnexa* Herzog, *Rev. Bryol. Lichénol.* 21 (3/4): 259, 1952 [1953] (Herzog 1952d).
- *** *Syzygiella Spruce*, *J. Bot.* 14: 234, 1876 (Spruce 1876a).²⁴
- *** **subg. *Anomalae* (Inoue) K.Feldberg, Váňa, Hentschel et Heinrichs**, *Cryptog. Bryol.* 31 (2): 143, 2010 (Feldberg et al. 2010b). Bas.: *Syzygiella* sect. *Anomalae* Inoue, *J. Hattori Bot. Lab.* 29: 183, 1966 (Inoue 1966c).

24 *Syzygiella* includes *Jamesoniella* (cf. Feldberg et al. 2010a), but one taxon has neither been transferred nor synonymized. It is listed in the “Names in genera not currently accepted” section below.

- *** *Syzygiella anomala* (Lindenb. et Gottsche) Steph., Bull. Herb. Boissier (sér. 2) 2 (5): 471 (190), 1902 (Stephani 1902f). Bas.: *Plagiochila anomala* Lindenb. et Gottsche, Syn. Hepat. 5: 646, 1847 (Gottsche et al. 1847).
- *** *Syzygiella bilobata* Inoue, J. Hattori Bot. Lab. 29: 186, 1966 (Inoue 1966c).
- ** *Syzygiella ciliata* Gradst. et A.R.Benitez, Nova Hedwigia 99 (1/2): 115, 2014 (Gradstein and Benitez 2014).
- *** *Syzygiella concreta* (Gottsche) Spruce, J. Bot. 14: 234, 1876 (Spruce 1876a). Bas.: *Jungermannia concreta* Gottsche, Mexik. Leverm.: 82, 1863 (Gottsche 1863).
- *** *Syzygiella manca* (Mont.) Steph., Hedwigia 31 (1): 14, 1892 (Jack and Stephani 1892). Bas.: *Chiloscyphus mancus* Mont., Syll. Gen. Sp. Crypt.: 63, 1856 (Montagne 1856b).
- *** *Syzygiella pectiniformis* Spruce, Trans. & Proc. Bot. Soc. Edinburgh 15: 501, 1885 (Spruce 1885).
- *** *Syzygiella tonduziana* Steph., Sp. Hepat. (Stephani) 6: 118, 1917 (Stephani 1917a).
- *** *Syzygiella trigonifolia* (Steph.) Herzog, Hedwigia 74 (2): 87, 1934 (Herzog 1934a). Bas.: *Jamesoniella trigonifolia* Steph., Biblioth. Bot. 87 (2): 185, 1916 (Stephani 1916a).
- *** **subg. *Cryptochila* (R.M.Schust.) K.Feldberg, Váňa, Hentschel et Heinrichs**, Cryptog. Bryol. 31 (2): 143, 2010 (Feldberg et al. 2010b). Bas.: *Cryptochila* R.M.Schust., J. Hattori Bot. Lab. 26: 284, 1963 (Schuster 1963b).
- *** *Syzygiella acinacifolia* (Hook.f. et Taylor) K.Feldberg, Váňa, Hentschel et Heinrichs, Cryptog. Bryol. 31 (2): 143, 2010 (Feldberg et al. 2010b). Bas.: *Jungermannia acinacifolia* Hook.f. et Taylor, London J. Bot. 3: 367, 1844 (Hooker and Taylor 1844a).
- *** *Syzygiella nigrescens* (Steph.) K.Feldberg, Váňa, Hentschel et Heinrichs, Cryptog. Bryol. 31 (2): 143, 2010 (Feldberg et al. 2010b). Bas.: *Jamesoniella nigrescens* Steph., Hedwigia 34 (2): 48, 1895 (Stephani 1895c).
- *** *Syzygiella paludosa* (Steph.) K.Feldberg, Váňa, Hentschel et Heinrichs, Cryptog. Bryol. 31 (2): 143, 2010 (Feldberg et al. 2010b). Bas.: *Jamesoniella paludosa* Steph., Bih. Kongl. Svenska Vetensk.-Akad. Handl. 26 (III, 17): 11, 1901 (Stephani 1901b).
- *** *Syzygiella pseudocclusa* (E.A.Hodgs.) K.Feldberg, Váňa, Hentschel et Heinrichs, Cryptog. Bryol. 31 (2): 143, 2010 (Feldberg et al. 2010b). Bas.: *Jamesoniella pseudocclusa* E.A.Hodgs., Trans. Roy. Soc. New Zealand 85 (4): 583, 1958 (Hodgson 1958).
- *** *Syzygiella sonderi* (Gottsche) K.Feldberg, Váňa, Hentschel et Heinrichs, Cryptog. Bryol. 31 (2): 143, 2010 (Feldberg et al. 2010b). Bas.: *Jungermannia sonderi* Gottsche, Linnaea 28 (5): 550, 1856 [1857] (Gottsche 1856).
- *** *Syzygiella spegazziniana* (Spruce ex C.Massal.) K.Feldberg, Váňa, Hentschel et Heinrichs, Cryptog. Bryol. 31 (2): 144, 2010 (Feldberg et al. 2010b). Bas.: *Jungermannia spegazziniana* Spruce ex C.Massal., Nuovo Giorn. Bot. Ital. 17 (3): 216, 1885 (Massalongo 1885).
- *** **subg. *Pseudoplagiochila* Inoue**, J. Hattori Bot. Lab. 29: 182, 1966 (Inoue 1966c).
- *** *Syzygiella ovalifolia* Inoue, J. Hattori Bot. Lab. 29: 191, 1966 (Inoue 1966c).

- * *Syzygiella securifolia* (Nees) Inoue, J. Hattori Bot. Lab. 46: 232, 1979 (Inoue 1979a). Bas.: *Plagiochila securifolia* Nees, Sp. Hepat. (Lindenberg) 2-4: 58, 1840 (Lindenberg 1840).²⁵
- *** *Syzygiella subintegerrima* (Reinw., Blume et Nees) Spruce, J. Linn. Soc., Bot. 30 (210): 362, 1895 (Gepp 1895b). Bas.: *Jungermannia subintegerrima* Reinw., Blume et Nees, Nova Acta Phys.-Med. Acad. Caes. Leop.-Carol. Nat. Cur. 12 (1): 238, 1824 [1825] (Reinwardt et al. 1824a).
- *** *Syzygiella tasmanica* (Hook.f. et Taylor) K.Feldberg, Váňa, Hentschel et Heinrichs, Cryptog. Bryol. 31 (2): 144, 2010 (Feldberg et al. 2010b). Bas.: *Jungermannia tasmanica* Hook.f. et Taylor, London J. Bot. 5: 274, 1846 (Taylor 1846a).
- *** **subg. *Roivainenia* (Perss.) K.Feldberg, Váňa, Hentschel et Heinrichs**, Cryptog. Bryol. 31 (2): 144, 2010 (Feldberg et al. 2010b). Bas.: *Roivainenia* Perss., Nova Hedwigia 3 (1): 43, 1961 (Persson and Grolle 1961).
- *** *Syzygiella jacquinotii* (Mont.) Hentschel, K.Feldberg, Váňa et Heinrichs, Cryptog. Bryol. 31 (2): 144, 2010 (Feldberg et al. 2010b). Bas.: *Jungermannia jacquinotii* Mont., Ann. Sci. Nat. Bot. (sér. 2) 19: 250, 1843 (Montagne 1843).
- *** **subg. *Syzygiella***
- *** *Syzygiella autumnalis* (DC.) K.Feldberg, Váňa, Hentschel et Heinrichs, Cryptog. Bryol. 31 (2): 144, 2010 (Feldberg et al. 2010b). Bas.: *Jungermannia autumnalis* DC., Fl. Franç. (DC. & Lamarck), 5 (6): 202, 1815 (De Candolle and Lamarck 1815).
- *** *Syzygiella campanulata* Herzog, Rev. Bryol. Lichénol. 11 (1): 9, 1938 [1939] (Herzog 1938a).
- *** *Syzygiella colorata* (Lehm.) K.Feldberg, Váňa, Hentschel et Heinrichs, Cryptog. Bryol. 31 (2): 144, 2010 (Feldberg et al. 2010b). Bas.: *Jungermannia colorata* Lehm., Linnaea 4: 366, 1829 (Lehmann 1829).
- ** *Syzygiella colorata* var. *collenchymata* J.J.Engel et Váňa, Mem. New York Bot. Gard. 105: 102, 2013 (Váňa and Engel 2013).
- *** *Syzygiella contigua* Steph., Bull. Herb. Boissier (sér. 2) 2 (5): 470 (189), 1902 (Stephani 1902f). *Nom. nov. pro Jungermannia contigua* Gottsche, Ann. Sci. Nat. Bot. (sér. 5) 1: 118, 1864 (Gottsche 1864), *nom. illeg.*
- *** *Syzygiella elongella* (Taylor) K.Feldberg, Váňa, Hentschel et Heinrichs, Cryptog. Bryol. 31 (2): 144, 2010 (Feldberg et al. 2010b). Bas.: *Jungermannia elongella* Taylor, London J. Bot. 5: 274, 1846 (Taylor 1846a).
- *** *Syzygiella macrocalyx* (Mont.) Spruce, J. Bot. 14: 234, 1876 (Spruce 1876a). Bas.: *Jungermannia macrocalyx* Mont., Ann. Sci. Nat. Bot. (sér. 2) 19: 248, 1843 (Montagne 1843).
- *** *Syzygiella nipponica* (S.Hatt.) K.Feldberg, Váňa, Hentschel et Heinrichs, Cryptog. Bryol. 31 (2): 145, 2010 (Feldberg et al. 2010b). Bas.: *Jamesoniella nipponica* S.Hatt., J. Jap. Bot. 19 (11): 350, 1943 (Hattori 1943b).

25 *Syzygiella securifolia* is a sister taxon to *Syzygiella subintegerrima* (Feldberg et al. 2010b) and it is debatable if they are different enough to warrant separation on the species level. Morphologically they are very similar (Söderström et al. 2010a).

- ** *Syzygiella oenops* (Lindenb. et Gottsche) K.Feldberg, Váňa, Hentschel et Heinrichs, Cryptog. Bryol. 31 (2): 145, 2010 (Feldberg et al. 2010b). Bas.: *Jungermannia oenops* Lindenb. et Gottsche, Syn. Hepat. 5: 673, 1847 (Gottsche et al. 1847).
- *** *Syzygiella perfoliata* (Sw.) Spruce, J. Bot. 14: 234, 1876 (Spruce 1876a). Bas.: *Jungermannia perfoliata* Sw., Prodr. (Swartz): 143, 1788 (Swartz 1788).
- *** *Syzygiella purpurascens* (Steph.) K.Feldberg, Váňa, Hentschel et Heinrichs, Cryptog. Bryol. 31 (2): 145, 2010 (Feldberg et al. 2010b). Bas.: *Jamesoniella purpurascens* Steph., Bull. Soc. Roy. Bot. Belgique, Compt. Rend. 30 (2): 200, 1891 [1892] (Stephani 1891b).
- *** *Syzygiella rubricaulis* (Nees) Steph., Bull. Herb. Boissier (sér. 2) 2 (5): 468 (187), 1902 (Stephani 1902f). Bas.: *Jungermannia rubricaulis* Nees, Fl. Bras. (Martius) 1 (1): 344, 1833 (Nees 1833a).
- *** *Syzygiella setulosa* Steph., Bull. Herb. Boissier (sér. 2) 2 (5): 469 (188), 1902 (Stephani 1902f).
- *** *Syzygiella teres* (Carrington et Pearson) Váňa, Phytotaxa 76 (3): 35, 2013 (Váňa et al. 2013h). Bas.: *Jungermannia teres* Carrington et Pearson, Pap. & Proc. Roy. Soc. Tasmania 1887: 9, 1888 (Carrington and Pearson 1888b).
- *** *Syzygiella undata* (Mont.) K.Feldberg, Váňa, Hentschel et Heinrichs, Cryptog. Bryol. 31 (2): 145, 2010 (Feldberg et al. 2010b). Bas.: *Jungermannia undata* Mont., Ann. Sci. Nat. Bot. (sér. 4) 14: 183, 1860 (Montagne 1860).

Incertae sedis

- *** *Syzygiella eatonii* (Austin) Inoue, J. Jap. Bot. 37 (12): 359, 1962 (Inoue 1962a). Bas.: *Plagiochila eatonii* Austin, Trans. Connecticut Acad. Arts 8 (15): 257, 1891 (Evans 1891).
- *** *Syzygiella uleana* Steph., Hedwigia 44 (4): 224, 1905 (Stephani 1905a).
- ** ***Vanaea* (Inoue et Gradst.) Inoue et Gradst.**, Trop. Bryol. 1: 33, 1989 (Gradstein and Florschütz-de Waard 1989). Bas.: *Anastrophyllum* subg. *Vanaea* Inoue et Gradst., Bull. Natl. Sci. Mus. Tokyo, B 14 (3): 88, 1988 (Inoue and Gradstein 1988).
- *** *Vanaea plagiochiloides* (Inoue et Gradst.) Inoue et Gradst., Trop. Bryol. 1: 33, 1989 (Gradstein and Florschütz-de Waard 1989). Bas.: *Anastrophyllum plagiochiloides* Inoue et Gradst., Bull. Natl. Sci. Mus. Tokyo, B 14 (3): 88, 1988 (Inoue and Gradstein 1988).

*** Anastrophyllaceae L.Söderstr., De Roo et Hedd.

by J. Váňa and L. Söderström

Anastrophyllaceae was described by Söderström et. al (2010b) from elements usually included in Lophoziaceae. Further taxonomic and nomenclatural notes can be found in Váňa et al. (2013k, 2013a). The complex of *Chandonanthus*/*Plicanthus*/*Tetralophozia* should be checked using molecular methods before generic and specific status of most

of the species can be confirmed. The placement of *Hattoria* and *Zantenia* in the family is still provisional. The placement of *Isopaches* is also unclear, de Roo et al. (2007) placed it in the family, but the study of Vilnet et al. (2010) showed that it can not be placed there.

- *** *Anastrepta* (Lindb.) Schiffn., *Hepat.* (Engl.-Prantl): 85, 1893 (Schiffner 1893b). Bas.: *Jungermannia* sect. *Anastrepta* Lindb., *Kongl. Svenska Vetensk.-Akad. Handl.* (n.ser.) 23 (5): 40, 1889 (Lindberg and Arnell 1889).
- *** *Anastrepta orcadensis* (Hook.) Schiffn., *Hepat.* (Engl.-Prantl): 85, 1893 (Schiffner 1893b). Bas.: *Jungermannia orcadensis* Hook., *Brit. Jungermann.*: tab. 71, 1815 (Hooker 1815).
- *** *Anastrophyllum* (Spruce) Steph., *Hedwigia* 32 (3): 139, 1893 (Stephani 1893b). Bas.: *Jungermannia* subg. *Anastrophyllum* Spruce, *J. Bot.* 14: 235, 1876 (Spruce 1876a).
- *** *Anastrophyllum alpinum* Steph., *Sp. Hepat.* (Stephani) 6: 103, 1917 (Stephani 1917a).
- *** *Anastrophyllum assimile* (Mitt.) Steph., *Hedwigia* 32 (3): 140, 1893 (Stephani 1893b). Bas.: *Jungermannia assimilis* Mitt., *J. Proc. Linn. Soc., Bot.* 5 (18): 93, 1860 [1861] (Mitten 1860c).
- *** *Anastrophyllum auritum* (Lehm.) Steph., *Bull. Herb. Boissier (sér. 2)* 1 (11): 1137 (120), 1901 (Stephani 1901c). Bas.: *Jungermannia aurita* Lehm., *Linnaea* 4: 368, 1829 (Lehmann 1829).
- *** *Anastrophyllum ciliatum* Steph., *Hedwigia* 32 (3): 139, 1893 (Stephani 1893b).
- *** *Anastrophyllum donnianum* (Hook.) Steph., *Hedwigia* 32 (3): 140, 1893 (Stephani 1893b). Bas.: *Jungermannia donniana* Hook., *Brit. Jungermann.*: tab. 39, 1813 (Hooker 1813).
- *** *Anastrophyllum ellipticum* Inoue, *Bull. Natl. Sci. Mus. Tokyo*, B 4 (1): 13, 1978 (Inoue 1978b).²⁶
- ** *Anastrophyllum esenbeckii* (Mont.) Steph., *Hedwigia* 32 (3): 140, 1893 (Stephani 1893b). Bas.: *Jungermannia esenbeckii* Mont., *Ann. Sci. Nat. Bot. (sér. 2)* 19: 247, 1843 (Montagne 1843).
- *** *Anastrophyllum fissum* Steph., *Bull. Herb. Boissier* 5 (10): 845, 1897 (Stephani 1897c).
- *** *Anastrophyllum joergensenii* Schiffn., *Hedwigia* 49 (4): 396, 1910 (Schiffner 1910b).
- * *Anastrophyllum lignicola* D.B.Schill et D.G.Long, *Ann. Bot. Fenn.* 39 (2): 130, 2002 (Schill and Long 2002).²⁷
- *** *Anastrophyllum michauxii* (F.Weber) H.Buch, *Memoranda Soc. Fauna Fl. Fennica* 8: 289, 1932 [1933] (Buch 1932). Bas.: *Jungermannia michauxii* F.Weber, *Hist. Musc. Hepat. Prodr.*: 76, 1815 (Weber 1815).

²⁶ *Anastrophyllum ellipticum* is only tentatively placed in the genus following Mamontov & Vilnet (2013).

²⁷ *Anastrophyllum lignicola* is possibly conspecific with *Anastrophyllum ellipticum* and its generic placement is uncertain.

- *** *Anastrophyllum nigrescens* (Mitt.) Steph., Hedwigia 32 (3): 140, 1893 (Stephani 1893b). Bas.: *Jungermannia nigrescens* Mitt., Hooker's J. Bot. Kew Gard. Misc. 3: 358, 1851 (Mitten 1851).
- *** *Anastrophyllum obtusum* Herzog, Trans. Brit. Bryol. Soc. 1 (4): 285, 1950 (Herzog 1950a).
- *** *Anastrophyllum piligerum* (Nees) Steph., Hedwigia 32 (3): 140, 1893 (Stephani 1893b). Bas.: *Jungermannia piligera* Nees, Nova Acta Phys.-Med. Acad. Caes. Leop.-Carol. Nat. Cur. 12 (1): 414, 1824 [1825] (Reinwardt et al. 1824b).
- *** *Anastrophyllum squarrosum* Herzog, Ann. Bryol. 5: 72, 1932 (Herzog 1932b).
- *** *Anastrophyllum stellatum* R.M.Schust., Phytologia 39 (4): 243, 1978 (Schuster 1978a).
- *** *Anastrophyllum tubulosum* (Nees) Grolle, J. Hattori Bot. Lab. 28: 101, 1965 (Grolle 1965e). Bas.: *Jungermannia tubulosa* Nees, Enum. Pl. Crypt. Javae: 32, 1830 (Nees 1830).
- *** ***Barbilophozia* Loeske**, Verh. Bot. Vereins Prov. Brandenburg 49 (1): 37, 1908 (Loeske 1908).
- ** **subg. *Barbilophozia***
- *** *Barbilophozia barbata* (Schmidel ex Schreb.) Loeske, Verh. Bot. Vereins Prov. Brandenburg 49 (1): 37, 1908 (Loeske 1908). Bas.: *Jungermannia barbata* Schmidel ex Schreb., Spic. Fl. Lips.: 107, 1771 (Schreber 1771).
- *** *Barbilophozia hatcheri* (A.Evans) Loeske, Verh. Bot. Vereins Prov. Brandenburg 49 (1): 37, 1908 (Loeske 1908). Bas.: *Jungermannia hatcheri* A.Evans, Bull. Torrey Bot. Club 25 (8): 417, 1898 (Evans 1898).
- *** *Barbilophozia lycopodioides* (Wallr.) Loeske, Verh. Bot. Vereins Prov. Brandenburg 49 (1): 37, 1908 (Loeske 1908). Bas.: *Jungermannia lycopodioides* Wallr., Comp. fl. Germ. 2 (III): 76, 1831 (Bluff and Fingerhuth 1831).
- *** *Barbilophozia rubescens* (R.M.Schust. et Damsh.) Kartt. et L.Söderstr., Ann. Bot. Fenn. 29 (2): 120, 1992 (Söderström et al. 1992). Bas.: *Lophozia rubescens* R.M.Schust. et Damsh., Phytologia 63 (5): 325, 1987 (Schuster and Damsholt 1987).
- ** **subg. *Sudeticae* (Schljakov) L.Söderstr., De Roo et Hedd.**, Phytotaxa 3: 50, 2010 (Söderström et al. 2010b). Bas.: *Lophozia* sect. *Sudeticae* Schljakov, Pečen. Mchi Sev. SSSR 3: 113, 1980 (Shliakov 1980a).
- *** *Barbilophozia sudetica* (Nees ex Huebener) L.Söderstr., De Roo et Hedd., Phytotaxa 3: 50, 2010 (Söderström et al. 2010b). Bas.: *Jungermannia sudetica* Nees ex Huebener, Hepaticol. germ.: 142, 1834 (Hübener 1834).²⁸

28 *Barbilophozia sudetica* was transferred from *Lophozia* by Söderström et al. (2010a), but transferred to the new genus *Pseudolophozia* Konstant. and Vilnet (sister to *Barbilophozia*) by Konstantinova and Vilnet (2009).

- *** ***Biantheridion* (Grolle) Konstant. et Vilnet**, *Arctoa* 18: 67, 2009 [2010] (Konstantinova and Vilnet 2009). Bas.: *Jamesoniella* sect. *Biantheridion* Grolle, *Trans. Brit. Bryol. Soc.* 4 (4): 662, 1964 (Grolle 1964i).
- *** *Biantheridion undulifolium* (Nees) Konstant. et Vilnet, *Arctoa* 18: 67, 2009 [2010] (Konstantinova and Vilnet 2009). Bas.: *Jungermannia schraderi* β *undulifolia* Nees, *Naturgesch. Eur. Leberm.* 1: 306, 1833 (Nees 1833c).
- *** ***Chandonanthus* Mitt.**, *Handb. N. Zeal. fl.* 2: 753, 1867 (Hooker 1867).
- *** *Chandonanthus squarrosus* (Menzies) Mitt., *Handb. N. Zeal. fl.* 2: 753, 1867 (Hooker 1867). Bas.: *Jungermannia squarrosa* Menzies, *Musci Exot.* 1: tab. 78, 1818 (Hooker 1818).
- *** ***Crossocalyx* Meyl.**, *Bull. Soc. Vaud. Sci. Nat.* 60 (249): 266, 1939 (Meylan 1939).
- *** *Crossocalyx hellerianus* (Nees ex Lindenb.) Meyl., *Bull. Soc. Vaud. Sci. Nat.* 60 (249): 266, 1939 (Meylan 1939). Bas.: *Jungermannia helleriana* Nees ex Lindenb., *Syn. hepat. eur.* 64, 1829 (Lindenberg 1829).
- *** *Crossocalyx tenuis* (Harry Williams) Schljakov, *Novosti Sist. Nizš. Rast.* 15: 246, 1978 (Shliakov 1978). Bas.: *Anastrophyllum tenue* Harry Williams, *Bryologist* 71 (1): 34, 1968 (Williams 1968).
- *** ***Gymnocolea* (Dumort.) Dumort.**, *Recueil Observ. Jungerm.*: 17, 1835 (Dumortier 1835). Bas.: *Jungermannia* sect. *Gymnocolea* Dumort., *Syll. Jungerm. Europ.*: 52, 1831 (Dumortier 1831).
- *** *Gymnocolea borealis* (Frisvoll et Moen) R.M.Schust., *Lindbergia* 12 (1): 7, 1986 (Schuster 1986). Bas.: *Lophozia borealis* Frisvoll et Moen, *Lindbergia* 6 (2): 138, 1980 [1981] (Frisvoll and Moen 1980).
- ** *Gymnocolea fascinifera* Potemkin, *Arctoa* 2: 76, 1993 (Potemkin 1993).
- *** *Gymnocolea inflata* (Huds.) Dumort., *Recueil Observ. Jungerm.*: 17, 1835 (Dumortier 1835). Bas.: *Jungermannia inflata* Huds., *Fl. Angl. (Hudson)*, ed. 2: 511, 1778 (Hudson 1778).
- * *Gymnocolea inflata* subsp. *acutiloba* (Schiffn.) R.M.Schust. et Damsh. ex L.Söderstr. et Váňa, *Lindbergia* 27 (1): 43, 2002 (Söderström et al. 2002). Bas.: *Lophozia acutiloba* Schiffn., *Hedwigia* 48 (3): 187, 1909 (Schiffner 1909a).²⁹
- *** ***Hamatostrepta* Váňa et D.G.Long**, *Fieldiana, Bot. (n.ser.)* 47: 134, 2008 (Váňa and Long 2008).
- *** *Hamatostrepta concinna* Váňa et D.G.Long, *Fieldiana, Bot. (n.ser.)* 47: 134, 2008 (Váňa and Long 2008).

29 *Gymnocolea inflata* subsp. *acutiloba* is a problematic taxon that sometimes has been treated as conspecific with *Gymnocolea inflata*, sometimes as a separate species.

- ** ***Hattoria* R.M.Schust.**, Rev. Bryol. Lichénol. 30 (1/2): 69, 1961 (Schuster 1961a).
- *** ***Hattoria yakushimensis* (Horik.) R.M.Schust.**, Rev. Bryol. Lichénol. 30 (1/2): 70, 1961 (Schuster 1961a). Bas.: *Anastrophyllum yakushimense* Horik., J. Sci. Hiroshima Univ., Ser. B, Div. 2, Bot. 2: 149, 1934 (Horikawa 1934).
- *** ***Isopaches* H.Buch**, Memoranda Soc. Fauna Fl. Fennica 8: 287, 1932 [1933] (Buch 1932).
- *** ***Isopaches alboviridis* (R.M.Schust.) Schljakov**, Novosti Sist. Nizš. Rast. 16: 205, 1979 (Shliakov 1979). Bas.: *Lophozia alboviridis* R.M.Schust., Hepat. Anthocerotae N. Amer. 2: 487, 1969 (Schuster 1969b).
- *** ***Isopaches bicrenatus* (Schmidel ex Hoffm.) H.Buch**, Memoranda Soc. Fauna Fl. Fennica 8: 288, 1932 [1933] (Buch 1932). Bas.: *Jungermannia bicrenata* Schmidel ex Hoffm., Deutschl. Fl., Theil 2 (Hoffm.): 11 (addenda), 1795 [1796] (Hoffmann 1795).
- *** ***Isopaches decolorans* (Limpr.) H.Buch**, Memoranda Soc. Fauna Fl. Fennica 8: 288, 1932 [1933] (Buch 1932). Bas.: *Jungermannia decolorans* Limpr., Jahresber. Schles. Ges. Vaterl. Cult. 57: 316, 1879 [1880] (Limpricht 1879).
- *** ***Isopaches pumicicola* (Berggr.) Bakalin**, Arctoa 17: 162, 2008 [2009] (Bakalin 2008b). Bas.: *Lophozia pumicicola* Berggr., New Zealand Hepat.: 21, 1898 (Berggren 1898).
- *** ***Neoorthocaulis* L.Söderstr., De Roo et Hedd.**, Phytotaxa 3: 49, 2010 (Söderström et al. 2010b).
- *** ***Neoorthocaulis attenuatus* (Mart.) L.Söderstr., De Roo et Hedd.**, Phytotaxa 3: 49, 2010 (Söderström et al. 2010b). Bas.: *Jungermannia quinquedentata* δ *attenuata* Mart., Fl. crypt. erlang.: 177, 1817 (Martius 1817).
- *** ***Neoorthocaulis binsteadii* (Kaal.) L.Söderstr., De Roo et Hedd.**, Phytotaxa 3: 49, 2010 (Söderström et al. 2010b). Bas.: *Jungermannia binsteadii* Kaal., Skr. Vidensk.-Selsk. Christiana, Math.-Naturvidensk. Kl. 1898 (9): 9, 1898 (Kaalaas 1898).
- *** ***Neoorthocaulis floerkei* (F.Weber et D.Mohr) L.Söderstr., De Roo et Hedd.**, Phytotaxa 3: 50, 2010 (Söderström et al. 2010b). Bas.: *Jungermannia floerkei* F.Weber et D.Mohr, Bot. Taschenb. (Weber): 410, 1807 (Weber and Mohr 1807).
- ** ***Neoorthocaulis hyperboreus* (R.M.Schust.) L.Söderstr., De Roo et Hedd.**, Phytotaxa 3: 50, 2010 (Söderström et al. 2010b). Bas.: *Lophozia floerkei* var. *hyperborea* R.M.Schust., Bull. Natl. Mus. Canada 164: 21, 1959 (Schuster et al. 1959).
- *** ***Orthocaulis* H.Buch**, Memoranda Soc. Fauna Fl. Fennica 8: 293, 1932 [1933] (Buch 1932).
- *** ***Orthocaulis atlanticus* (Kaal.) H.Buch**, Memoranda Soc. Fauna Fl. Fennica 8: 294, 1932 [1933] (Buch 1932). Bas.: *Jungermannia atlantica* Kaal., Skr. Vidensk.-Selsk. Christiana, Math.-Naturvidensk. Kl. 1898 (9): 11, 1898 (Kaalaas 1898).
- * ***Orthocaulis cavifolius* H.Buch et S.W.Arnell**, Memoranda Soc. Fauna Fl. Fennica 26: 71, 1951 (Buch 1951).

- ** *Plicanthus* R.M.Schust., *Nova Hedwigia* 74 (3/4): 484, 2002 (Schuster 2002a).
- *** *Plicanthus birmensis* (Steph.) R.M.Schust., *Beih. Nova Hedwigia* 119: 223, 2002 (Schuster 2002b). Bas.: *Chandonanthus birmensis* Steph., *Bull. Soc. Roy. Bot. Belgique* 38 (1): 43, 1899 (Stephani 1899h).³⁰
- ** *Plicanthus difficilis* (Steph.) L.Söderstr. et Váňa, *Phytotaxa* 81 (1): 30, 2013 (Váňa et al. 2013a). Bas.: *Chandonanthus difficilis* Steph., *J. & Proc. Roy. Soc. New South Wales* 48 (1/2): 101, 1914 (Stephani and Watts 1914).
- ** *Plicanthus giganteus* (Steph.) R.M.Schust., *Nova Hedwigia* 74 (3/4): 485, 2002 (Schuster 2002a). Bas.: *Chandonanthus giganteus* Steph., *Wiss. Ergebn. Deut. Zentr.-Afr. Exped. (1907-08), Bot.* 2: 124, 1911 (Stephani 1911a).³¹
- *** *Plicanthus hirtellus* (F.Weber) R.M.Schust., *Nova Hedwigia* 74 (3/4): 492, 2002 (Schuster 2002a). Bas.: *Jungermannia hirtella* F.Weber, *Hist. Musc. Hepat. Prodr.*: 50, 1815 (Weber 1815).
- *** *Schizophyllopsis Váňa et L.Söderstr.*, *Phytotaxa* 152 (1): 48, 2013 (Váňa et al. 2013f). *Nom. nov. pro Anastrophyllum* subg. *Schizophyllum* R.M.Schust., *Hepat. Anthocerotae N. Amer.* 2: 739, 1969 (Schuster 1969b).³²
- ** *Schizophyllopsis aristata* (Herzog ex N.Kitag.) Váňa et L.Söderstr., *Phytotaxa* 152 (1): 48, 2013 (Váňa et al. 2013f). Bas.: *Anastrophyllum bidens* var. *aristatum* Herzog ex N.Kitag., *J. Hattori Bot. Lab.* 33: 216, 1970 (Kitagawa 1970).
- *** *Schizophyllopsis bidens* (Reinw., Blume et Nees) Váňa et L.Söderstr., *Phytotaxa* 152 (1): 48, 2013 (Váňa et al. 2013f). Bas.: *Jungermannia bidens* Reinw., *Blume et Nees, Nova Acta Phys.-Med. Acad. Caes. Leop.-Carol. Nat. Cur.* 12 (1): 208, 1824 [1825] (Reinwardt et al. 1824a).
- ** *Schizophyllopsis lanciloba* (Steph.) Váňa et L.Söderstr., *Phytotaxa* 152 (1): 48, 2013 (Váňa et al. 2013f). Bas.: *Anastrophyllum lancilobum* Steph., *Sp. Hepat. (Stephani)* 6: 107, 1917 (Stephani 1917a).
- *** *Schizophyllopsis papillosa* (J.J.Engel et Braggins) Váňa et L.Söderstr., *Phytotaxa* 152 (1): 48, 2013 (Váňa et al. 2013f). Bas.: *Anastrophyllum papillosum* J.J.Engel et Braggins, *J. Bryol.* 20 (2): 381, 1998 (Engel and Braggins 1998).
- *** *Schizophyllopsis sphenoloboides* (R.M.Schust.) Váňa et L.Söderstr., *Phytotaxa* 152 (1): 49, 2013 (Váňa et al. 2013f). Bas.: *Anastrophyllum sphenoloboides* R.M.Schust., *Hepat. Anthocerotae N. Amer.* 2: 741, 1969 (Schuster 1969b).
- *** *Schljakovia Konstant. et Vilnet*, *Arctoa* 18: 66, 2009 [2010] (Konstantinova and Vilnet 2009).

30 *Plicanthus birmensis* seems to be closely related to *Tetralophozia* (Vilnet et al. 2010), but Grolle (1995) considered it a possibly depauperate form of *Plicanthus hirtellus*. However, it may be a good species, possibly of the genus *Tetralophozia*.

31 *Plicanthus giganteus* is often treated as a subspecies of *Plicanthus hirtellus* (e.g. Pócs and Lye 1999).

32 *Schizophyllopsis* was originally published as *Schizophyllum* (R.M.Schust.) Váňa et L.Söderstr. (Váňa et al. 2013k), but that is a later homonym of *Schizophyllum* Fr. (1815; Fungus) and Nutt. (1841; Asteraceae).

- *** *Schljakovia kunzeana* (Huebener) Konstant. et Vilnet, *Arctoa* 18: 66, 2009 [2010] (Konstantinova and Vilnet 2009). Bas.: *Jungermannia kunzeana* Huebener, *Hepaticol. germ.*: 115, 1834 (Hübener 1834).
- *** ***Schljakovianthus* Konstant. et Vilnet**, *Arctoa* 18: 66, 2009 [2010] (Konstantinova and Vilnet 2009).
- *** *Schljakovianthus quadrilobus* (Lindb.) Konstant. et Vilnet, *Arctoa* 18: 66, 2009 [2010] (Konstantinova and Vilnet 2009). Bas.: *Jungermannia quadriloba* Lindb., *Kongl. Svenska Vetensk.-Akad. Handl. (n.ser.)* 23 (5): 55, 1889 (Lindberg and Arnell 1889).
- *** ***Sphenolobopsis* R.M.Schust. et N.Kitag.**, *Nova Hedwigia* 22: 152, 1971 [1972] (Schuster 1971b).
- *** *Sphenolobopsis pearsonii* (Spruce) R.M.Schust., *Nova Hedwigia* 22: 153, 1971 [1972] (Schuster 1971b). Bas.: *Jungermannia pearsonii* Spruce, *J. Bot.* 19: 33, 1881 (Spruce 1881b).
- *** ***Sphenolobus* (Lindb.) Berggr.**, *New Zealand Hepat.*: 22, 1898 (Berggren 1898). Bas.: *Jungermannia* sect. *Sphenolobus* Lindb., *Not. Sällsk. Fauna Fl. Fenn. Förh.* 13: 369, 1874 (Lindberg 1874a).
- *** *Sphenolobus austroamericanus* (Váňa) Váňa, *Phytotaxa* 81 (1): 30, 2013 (Váňa et al. 2013a). Bas.: *Anastrophyllum austroamericanum* Váňa, *J. Hattori Bot. Lab.* 48: 225, 1980 (Váňa 1980).
- *** *Sphenolobus minutus* (Schreb. ex D.Crantz) Berggr., *New Zealand Hepat.*: 22, 1898 (Berggren 1898). Bas.: *Jungermannia minuta* Schreb. ex D.Crantz, *Forts. Hist. Grönland*: 285, 1770 (Crantz 1770; non vidi).
- *** *Sphenolobus saxicola* (Schrad.) Steph., *Bull. Herb. Boissier (sér. 2)* 2 (2): 168 (160), 1902 (Stephani 1902d). Bas.: *Jungermannia saxicola* Schrad., *Syst. Samml. Crypt. Gew.* 2: 4, 1797 (Schradler 1797).
- ** ***Tetralophozia* (R.M.Schust.) Schljakov**, *Novosti Sist. Nizš. Rast.* 13: 227, 1976 (Shliakov 1976). Bas.: *Chandonanthus* subg. *Tetralophozia* R.M.Schust., *J. Hattori Bot. Lab.* 23: 206, 1960 [1961] (Schuster 1960a).
- *** *Tetralophozia cavallii* (Gola) Váňa, *Trop. Bryol.* 8: 102, 1993 (Váňa 1993). Bas.: *Blepharostomum cavallii* Gola, *Ann. Bot. (Rome)* 6 (2): 274, 1907 (Gola 1907).
- *** *Tetralophozia filiformis* (Steph.) Urmí, *J. Bryol.* 12 (3): 394, 1983 (Urmí 1983). Bas.: *Chandonanthus filiformis* Steph., *Sp. Hepat. (Stephani)* 3: 644, 1909 (Stephani 1909a).
- ** *Tetralophozia pilifera* (Steph.) R.M.Schust., *Nova Hedwigia* 74 (3/4): 482, 2002 (Schuster 2002a). Bas.: *Chandonanthus pilifer* Steph., *Sp. Hepat. (Stephani)* 3: 644, 1909 (Stephani 1909a).
- *** *Tetralophozia setiformis* (Ehrh.) Schljakov, *Novosti Sist. Nizš. Rast.* 13: 228, 1976 (Shliakov 1976). Bas.: *Jungermannia setiformis* Ehrh., *Hannover. Mag.* 22 (8): 142, 1784 (Ehrhart 1784).

- *** ***Zantenia* (S.Hatt.) Váňa et J.J.Engel**, Mem. New York Bot. Gard. 105: 29, 2013 (Váňa and Engel 2013). Bas.: *Anastrophyllum* subg. *Zantenia* S.Hatt., Bot. Mag. (Tokyo) 79 (937): 342, 1966 (Hattori 1966a).
- *** *Zantenia borneensis* (Herzog) Váňa et J.J.Engel, Mem. New York Bot. Gard. 105: 29, 2013 (Váňa and Engel 2013). Bas.: *Anastrophyllum borneense* Herzog, Trans. Brit. Bryol. Soc. 1 (4): 282, 1950 (Herzog 1950a).
- *** *Zantenia denticulata* (Grolle) Váňa et J.J.Engel, Mem. New York Bot. Gard. 105: 30, 2013 (Váňa and Engel 2013). Bas.: *Anastrophyllum denticulatum* Grolle, Nova Hedwigia 16: 148, 1968 (Grolle 1968d).
- *** *Zantenia karstenii* (Schiffn.) Váňa et J.J.Engel, Mem. New York Bot. Gard. 105: 30, 2013 (Váňa and Engel 2013). Bas.: *Anastrophyllum karstenii* Schiffn., Nova Acta Acad. Caes. Leop.-Carol. German. Nat. Cur. 60 (2): 268, 1893 (Schiffner 1893a).
- *** *Zantenia prionophylla* (S.Hatt.) Váňa et J.J.Engel, Mem. New York Bot. Gard. 105: 30, 2013 (Váňa and Engel 2013). Bas.: *Anastrophyllum prionophyllum* S.Hatt., Bot. Mag. (Tokyo) 79 (937): 342, 1966 (Hattori 1966a).

*** Cephaloziaceae Mig.

by J. Váňa with contributions by S.R. Gradstein (*Odontoschisma*)

Cephaloziaceae was recently studied by Vilnet et al. (2012) and Feldberg et al. (2013). Some taxonomic and nomenclatural notes were published by Váňa et al. (2013g, 2013i) and Gradstein et al. (2014b).

** Alobielloideae R.M.Schust.

- ** ***Albiella* (Spruce) Schiffn.**, Hepat. (Engl.-Prantl): 98, 1893 (Schiffner 1893b). Bas.: *Cephalozia* subg. *Albiella* Spruce, Cephalozia: 28, 1882 (Spruce 1882).
- *** *Albiella husnotii* (Spruce) Schiffn., Hepat. (Engl.-Prantl): 98, 1893 (Schiffner 1893b). Bas.: *Cephalozia husnotii* Spruce, Cephalozia: 30, 1882 (Spruce 1882).
- ** ***Albiellopsis* R.M.Schust.**, Nova Hedwigia 10 (1/2): 25, 1965 (Schuster 1965b).
- *** *Albiellopsis acrosypha* (Spruce) R.M.Schust., Nova Hedwigia 10 (1/2): 25, 1965 (Schuster 1965b). Bas.: *Cephalozia acrosypha* Spruce, Cephalozia: 30, 1882 (Spruce 1882).
- *** *Albiellopsis dominicensis* (Spruce) Fulford, Mem. New York Bot. Gard. 11 (3): 350, 1968 (Fulford 1968). Bas.: *Albiella dominicensis* Spruce, J. Linn. Soc., Bot. 30 (210): 355, 1895 (Gepp 1895b).
- *** *Albiellopsis heteromorpha* (Lehm.) R.M.Schust., Bull. Natl. Sci. Mus. Tokyo (n.ser.) 12 (3): 682, 1969 (Schuster 1969a). Bas.: *Jungermannia heteromorpha* Lehm., Linnaea 4: 362, 1829 (Lehmann 1829).

- *** *Alobiellopsis parvifolia* (Steph.) R.M.Schust., Bull. Natl. Sci. Mus. Tokyo (n.ser.) 12 (3): 679, 1969 (Schuster 1969a). Bas.: *Alobiella parvifolia* Steph., Bull. Herb. Boissier (sér. 2) 8 (8): 568 (352), 1908 (Stephani 1908e).
- *** *Alobiellopsis pillansii* (Sim) R.M.Schust., Bull. Natl. Sci. Mus. Tokyo (n.ser.) 12 (3): 683, 1969 (Schuster 1969a). Bas.: *Cephalozia pillansii* Sim, Trans. Roy. Soc. South Africa 15 (1): 87, 1926 (Sim 1926).
- ✧ **Cephalozioideae Müll.Frib.**
- *** ***Cephalozia* (Dumort.) Dumort.**, Recueil Observ. Jungerm.: 18, 1835 (Dumortier 1835). Bas.: *Jungermannia* sect. *Cephalozia* Dumort., Syll. Jungerm. Europ.: 60, 1831 (Dumortier 1831).
- *** *Cephalozia acuminata* (Herzog) Váňa, Phytotaxa 112 (1): 11, 2013 (Váňa et al. 2013g). Bas.: *Hygrobiiella acuminata* Herzog, Trans. Brit. Bryol. Soc. 1 (4): 292, 1950 (Herzog 1950a).
- ** *Cephalozia acutiloba* (Inoue) Váňa, Phytotaxa 112 (1): 11, 2013 (Váňa et al. 2013g). Bas.: *Metahygrobiiella acutiloba* Inoue, Bull. Natl. Sci. Mus. Tokyo (n.ser.) 10 (2): 155, 1967 (Inoue 1967c).
- *** *Cephalozia albula* Steph., Hedwigia 32 (5): 318, 1893 (Stephani 1893d). *Nom. nov. pro Jungermannia albula* Mitt., J. Proc. Linn. Soc., Bot. 5 (18): 93, 1860 [1861] (Mitten 1860c), *nom. illeg.*
- *** *Cephalozia ambigua* C.Massal., Malpighia 21 (7/8): 310, 1907 (Massalongo 1907).
- *** *Cephalozia austriгена* R.M.Schust. ex J.J.Engel, Novon 17 (3): 312, 2007 (Engel 2007). Based on: *Cephalozia bicuspidata* subsp. *austriгена* R.M.Schust., Hapat. Anthocerotae N. Amer. 3: 712, 1974 (Schuster 1974), *nom. inval.*
- *** *Cephalozia badia* (Gottsche) Steph., Bull. Herb. Boissier (sér. 2) 8 (7): 483 (313), 1908 (Stephani 1908f). Bas.: *Jungermannia badia* Gottsche, Int. Polarforsch., Deutsch. Exped. 2: 452, 1890 (Gottsche 1890).
- *** *Cephalozia bicuspidata* (L.) Dumort., Recueil Observ. Jungerm.: 18, 1835 (Dumortier 1835). Bas.: *Jungermannia bicuspidata* L., Sp. Pl. 1: 1132, 1753 (Linnaeus 1753).
- * *Cephalozia bicuspidata* subsp. *lammersiana* (Huebener) R.M.Schust., Hapat. Anthocerotae N. Amer. 3: 730, 1974 (Schuster 1974). Bas.: *Jungermannia lammersiana* Huebener, Flora 15 (20): 306, 1832 (Hübener 1832).
- *** *Cephalozia chilensis* (J.J.Engel et R.M.Schust.) R.M.Schust., Beih. Nova Hedwigia 119: 29, 2002 (Schuster 2002b). Bas.: *Metahygrobiiella chilensis* J.J.Engel et R.M.Schust., Brittonia 40 (2): 203, 1988 (Engel and Schuster 1988).
- *** *Cephalozia conchata* (Grolle et Váňa) Váňa, Syst. Bot. 40 (1): 38, 2015 (Shaw et al. 2015). Bas.: *Jungermannia conchata* Grolle et Váňa, Fragm. Florist. Geobot. 37 (1): 3, 1992 (Grolle and Váňa 1992).
- *** *Cephalozia crossii* Spruce, Cephalozia: 46, 1882 (Spruce 1882).
- *** *Cephalozia darjeelingensis* Udar et D.Kumar, Geophytology 6 (1): 36, 1976 (Udar and Kumar 1976).

- *** *Cephalozia drucei* (R.M.Schust.) Váňa, *Phytotaxa* 112 (1): 11, 2013 (Váňa et al. 2013g). Bas.: *Metahygrobiella drucei* R.M.Schust., *J. Hattori Bot. Lab.* 26: 273, 1963 (Schuster 1963b).
- *** *Cephalozia fuegiensis* Váňa, *Phytotaxa* 112 (1): 12, 2013 (Váňa et al. 2013g). *Nom. nov. pro Hygrobiella dusenii* Steph., *Sp. Hepat. (Stephani)* 6: 444, 1924 (Stephani 1924).
- *** *Cephalozia hamatiloba* Steph., *Bull. Herb. Boissier (sér. 2)* 8 (6): 427 (303), 1908 (Stephani 1908g).
- *** *Cephalozia hamatiloba* subsp. *siamensis* (N.Kitag.) Váňa, *Acta Bot. Fenn.* 177: 16, 2004 (Koponen et al. 2004). Bas.: *Cephalozia siamensis* N.Kitag., *J. Hattori Bot. Lab.* 32: 293, 1969 (Kitagawa 1969c).
- *** *Cephalozia lacinulata* (J.B.Jack ex Gottsche et Rabenh.) Spruce, *Cephalozia*: 45, 1882 (Spruce 1882). Bas.: *Jungermannia lacinulata* J.B.Jack ex Gottsche et Rabenh., *Hepat. Eur., Leberm.* 62-64: no. 624, 1877 (Gottsche and Rabenhorst 1877).
- *** *Cephalozia lucens* (A.Evans) Steph., *Bull. Herb. Boissier (sér. 2)* 8 (7): 496 (326), 1908 (Stephani 1908f). Bas.: *Jungermannia lucens* A.Evans, *Trans. Connecticut Acad. Arts* 8 (15): 258, 1891 (Evans 1891).
- *** *Cephalozia macgregorii* (Steph.) Váňa, *Phytotaxa* 112 (1): 12, 2013 (Váňa et al. 2013g). Bas.: *Hygrobiella macgregorii* Steph., *Hedwigia* 34 (2): 45, 1895 (Stephani 1895c).
- *** *Cephalozia macounii* (Austin) Austin, *Hepat. bor.-amer.*: 14, 1873 (Austin 1873). Bas.: *Jungermannia macounii* Austin, *Proc. Acad. Nat. Sci. Philadelphia* 21: 222, 1869 (Austin 1869).
- *** *Cephalozia maxima* Steph., *Sp. Hepat. (Stephani)* 6: 441, 1924 (Stephani 1924).
- *** *Cephalozia mollusca* (De Not.) Váňa, *Phytotaxa* 112 (1): 12, 2013 (Váňa et al. 2013g). Bas.: *Jungermannia mollusca* De Not., *Epat. Borneo*: 16, 1874 (De Notaris 1874).
- * *Cephalozia neesiana* Steph., *Bull. Herb. Boissier (sér. 2)* 8 (6): 429 (305), 1908 (Stephani 1908g).³³
- *** *Cephalozia nishimurae* (N.Kitag.) Váňa, *Phytotaxa* 112 (1): 12, 2013 (Váňa et al. 2013g). Bas.: *Hygrobiella nishimurae* N.Kitag., *Misc. Bryol. Lichenol.* 9 (4): 69, 1982 (Kitagawa 1982).
- ** *Cephalozia pachygyma* R.M.Schust. ex J.J.Engel, *Novon* 17 (3): 313, 2007 (Engel 2007).
- ** *Cephalozia physocaula* (Hook.f. et Taylor) Steph., *Bull. Herb. Boissier (sér. 2)* 8 (7): 485 (315), 1908 (Stephani 1908f). Bas.: *Jungermannia physocaula* Hook.f. et Taylor, *London J. Bot.* 3: 455, 1844 (Hooker and Taylor 1844b).
- ** *Cephalozia schusteriana* J.J.Engel, *Novon* 17 (3): 313, 2007 (Engel 2007).
- *** *Cephalozia stolonacea* (Herzog) Váňa, *Phytotaxa* 112 (1): 12, 2013 (Váňa et al. 2013g). Bas.: *Hygrobiella stolonacea* Herzog, *Trans. Brit. Bryol. Soc.* 1 (4): 293, 1950 (Herzog 1950a).
- *** *Cephalozia tubulata* (Hook.f. et Taylor) Trevis., *Mem. Reale Ist. Lombardo Sci. (Ser. 3), C. Sci. Mat.* 4 (13): 417, 1877 (Trevisan 1877). Bas.: *Jungermannia tubulata* Hook.f. et Taylor, *London J. Bot.* 3: 463, 1844 (Hooker and Taylor 1844b).

33 *Cephalozia neesiana* may be conspecific with *Cephalozia hamatiloba* (Váňa 1988).

Excluded from the genus

- * *Cephalozia hians* Steph., Sp. Hepat. (Stephani) 6: 441, 1924 (Stephani 1924).³⁴
- * *Cephalozia indica* Udar et D.Kumar, Geophytology 6 (1): 42, 1976 (Udar and Kumar 1976).³⁵
- * *Cephalozia kodaikanalensis* G.Asthana et Saumya Srivast., Geophytology 43 (1): 63, 2013 (Asthana and Srivastava 2013).³⁶
- * *Cephalozia parvifolia* Arnell, Rev. Bryol. 25 (1): 1, 1898 (Arnell 1898).³⁷
- * *Cephalozia tricuspidata* (Nees) Trevis., Mem. Reale Ist. Lombardo Sci. (Ser. 3), C. Sci. Mat. 4 (13): 417, 1877 (Trevisan 1877). Bas.: *Jungermannia tricuspidata* Nees, Enum. Pl. Crypt. Javae: 31, 1830 (Nees 1830).³⁸

- *** ***Fuscocephaloziopsis Fulford***, Mem. New York Bot. Gard. 11 (3): 353, 1968 (Fulford 1968).
- ** *Fuscocephaloziopsis affinis* (Lindb. ex Steph.) Váňa et L.Söderstr., Phytotaxa 112 (1): 9, 2013 (Váňa et al. 2013g). Bas.: *Cephalozia affinis* Lindb. ex Steph., Bull. Herb. Boissier (sér. 2) 8 (4): 277 (291), 1908 (Stephani 1908j).
- *** *Fuscocephaloziopsis africana* (Váňa) Váňa et L.Söderstr., Phytotaxa 112 (1): 9, 2013 (Váňa et al. 2013g). Bas.: *Cephalozia africana* Váňa, Beih. Nova Hedwigia 90: 187, 1988 (Váňa 1988).
- *** *Fuscocephaloziopsis albescens* (Hook.) Váňa et L.Söderstr., Phytotaxa 112 (1): 9, 2013 (Váňa et al. 2013g). Bas.: *Jungermannia albescens* Hook., Brit. Jungermann.: tab. 72, 1815 (Hooker 1815).
- * *Fuscocephaloziopsis albescens* var. *islandica* (Nees) Váňa et L.Söderstr., Phytotaxa 112 (1): 9, 2013 (Váňa et al. 2013g). Bas.: *Jungermannia islandica* Nees, Naturgesch. Eur. Leberm. 2: 29, 1836 (Nees 1836).
- *** *Fuscocephaloziopsis baldwinii* (C.M.Cooke) Váňa et L.Söderstr., Phytotaxa 112 (1): 9, 2013 (Váňa et al. 2013g). Bas.: *Cephalozia baldwinii* C.M.Cooke, Trans. Connecticut Acad. Arts 12 (1): 35, 1904 (Cooke 1904).
- ** *Fuscocephaloziopsis biloba* (Herzog) Fulford, Mem. New York Bot. Gard. 11 (3): 355, 1968 (Fulford 1968). Bas.: *Alobiella biloba* Herzog, Feddes Repert. Spec. Nov. Regni Veg. 57 (1/2): 166, 1955 (Herzog 1955).
- *** *Fuscocephaloziopsis catenulata* (Huebener) Váňa et L.Söderstr., Phytotaxa 112 (1): 9, 2013 (Váňa et al. 2013g). Bas.: *Jungermannia catenulata* Huebener, Hepaticol. germ.: 169, 1834 (Hübener 1834).
- *** *Fuscocephaloziopsis catenulata* subsp. *nipponica* (S.Hatt.) Váňa et L.Söderstr., Phytotaxa 112 (1): 9, 2013 (Váňa et al. 2013g). Bas.: *Cephalozia nipponica* S.Hatt., Bull. Tokyo Sci. Mus. 11: 74, 1944 (Hattori 1944d).

34 *Cephalozia hians* is probably an *Isotachis* or *Lophocolea* species.

35 *Cephalozia indica* is a *Lophocolea* species and probably conspecific with "*Cephalozia*" *kodaikanalensis*.

36 *Cephalozia kodaikanalensis* is a *Lophocolea* species, possibly conspecific with "*Cephalozia*" *indica*.

37 *Cephalozia parvifolia* is a *Cephaloziella* species although the type specimen has not been found.

38 *Cephalozia tricuspidata* is a *Lepidozia* species (Schiffner 1898b).

- *** *Fuscocephaloziopsis connivens* (Dicks.) Váňa et L.Söderstr., *Phytotaxa* 112 (1): 9, 2013 (Váňa et al. 2013g). Bas.: *Jungermannia connivens* Dicks., *Fasc. Pl. Crypt. Brit.* 4: 19, 1801 (Dickson 1801).
- *** *Fuscocephaloziopsis connivens* subsp. *fissa* (Steph.) Váňa et L.Söderstr., *Phytotaxa* 112 (1): 9, 2013 (Váňa et al. 2013g). Bas.: *Cephalozia fissa* Steph., *Hedwigia* 30 (5): 204, 1891 (Stephani 1891a).
- *** *Fuscocephaloziopsis connivens* subsp. *sandwicensis* (Mont.) Váňa et L.Söderstr., *Phytotaxa* 112 (1): 9, 2013 (Váňa et al. 2013g). Bas.: *Jungermannia sandwicensis* Mont., *Ann. Sci. Nat. Bot. (sér. 2)* 19: 249, 1843 (Montagne 1843).
- *** *Fuscocephaloziopsis crassifolia* (Lindenb. et Gottsche) Váňa et L.Söderstr., *Phytotaxa* 112 (1): 10, 2013 (Váňa et al. 2013g). Bas.: *Jungermannia crassifolia* Lindenb. et Gottsche, *Syn. Hepat.* 5: 685, 1847 (Gottsche et al. 1847).
- *** *Fuscocephaloziopsis gollanii* (Steph.) Váňa et L.Söderstr., *Phytotaxa* 112 (1): 10, 2013 (Váňa et al. 2013g). Bas.: *Cephalozia gollanii* Steph., *Bull. Herb. Boissier (sér. 2)* 8 (6): 428 (304), 1908 (Stephani 1908g).
- *** *Fuscocephaloziopsis leucantha* (Spruce) Váňa et L.Söderstr., *Phytotaxa* 112 (1): 10, 2013 (Váňa et al. 2013g). Bas.: *Cephalozia leucantha* Spruce, *Cephalozia*: 68, 1882 (Spruce 1882).
- *** *Fuscocephaloziopsis loitlesbergeri* (Schiffn.) Váňa et L.Söderstr., *Phytotaxa* 112 (1): 10, 2013 (Váňa et al. 2013g). Bas.: *Cephalozia loitlesbergeri* Schiffn., *Österr. Bot. Z.* 62 (1): 10, 1912 (Schiffner 1912b).
- *** *Fuscocephaloziopsis lunulifolia* (Dumort.) Váňa et L.Söderstr., *Phytotaxa* 112 (1): 10, 2013 (Váňa et al. 2013g). Bas.: *Jungermannia lunulifolia* Dumort., *Syll. Jungerm. Europ.*: 61, 1831 (Dumortier 1831).³⁹
- *** *Fuscocephaloziopsis macrostachya* (Kaal.) Váňa et L.Söderstr., *Phytotaxa* 112 (1): 10, 2013 (Váňa et al. 2013g). Bas.: *Cephalozia macrostachya* Kaal., *Rev. Bryol.* 29 (1): 8, 1902 (Kaalaas 1902).
- *** *Fuscocephaloziopsis macrostachya* subsp. *australis* (R.M.Schust.) Váňa et L.Söderstr., *Phytotaxa* 112 (1): 10, 2013 (Váňa et al. 2013g). Bas.: *Cephalozia macrostachya* subsp. *australis* R.M.Schust., *Hepat. Anthocerotae N. Amer.* 3: 754, 1974 (Schuster 1974).
- *** *Fuscocephaloziopsis macrostachya* subsp. *macrostachya* var. *spiniflora* (Schiffn.) Váňa et L.Söderstr., *Phytotaxa* 112 (1): 10, 2013 (Váňa et al. 2013g). Bas.: *Cephalozia spiniflora* Schiffn., *Hedwigia* 54 (6): 323, 1914 (Schiffner 1914a).
- *** *Fuscocephaloziopsis monticola* (J.D.Godfrey) Váňa et L.Söderstr., *Phytotaxa* 112 (1): 11, 2013 (Váňa et al. 2013g). Bas.: *Schofieldia monticola* J.D.Godfrey, *Bryologist* 79 (3): 315, 1976 (Godfrey 1976).
- *** *Fuscocephaloziopsis pachycaulis* (R.M.Schust.) Váňa et L.Söderstr., *Phytotaxa* 112 (1): 11, 2013 (Váňa et al. 2013g). Bas.: *Cephalozia pachycaulis* R.M.Schust., *Bryologist* 96 (4): 623, 1993 (Schuster 1993b).

39 *Fuscocephaloziopsis lunulifolia* is a species complex also including *Fuscocephaloziopsis affinis* and *Fuscocephaloziopsis schusteri*.

- *** *Fuscocephaloziopsis pleniceps* (Austin) Váňa et L.Söderstr., Phytotaxa 112 (1): 11, 2013 (Váňa et al. 2013g). Bas.: *Jungermannia pleniceps* Austin, Proc. Acad. Nat. Sci. Philadelphia 21: 222, 1869 (Austin 1869).
- ** *Fuscocephaloziopsis pleniceps* var. *caroliniana* (R.M.Schust.) Váňa et L.Söderstr., Phytotaxa 112 (1): 11, 2013 (Váňa et al. 2013g). Bas.: *Cephalozia pleniceps* var. *caroliniana* R.M.Schust., Hepat. Anthocerotae N. Amer. 3: 780, 1974 (Schuster 1974).
- *** *Fuscocephaloziopsis pulvinata* (Steph.) Fulford, Mem. New York Bot. Gard. 11 (3): 355, 1968 (Fulford 1968). Bas.: *Alobiella pulvinata* Steph., Bull. Herb. Boissier (sér. 2) 8 (8): 572 (356), 1908 (Stephani 1908e).
- * *Fuscocephaloziopsis schusteri* (Sushil K.Singh et D.K.Singh) Váňa, Phytotaxa 183 (4): 291, 2014 (Váňa et al. 2014a). Bas.: *Cephalozia schusteri* Sushil K.Singh et D.K.Singh, Lindbergia 32 (1): 1, 2007 (Singh and Singh 2007a).
- *** *Fuscocephaloziopsis subintegra* Gradst. et Váňa, Cryptog. Bryol. 25 (3): 274, 2004 (Parolly et al. 2004).
- *** *Fuscocephaloziopsis zoopsioides* (Horik.) Váňa et L.Söderstr., Phytotaxa 112 (1): 11, 2013 (Váňa et al. 2013g). Bas.: *Cephalozia zoopsioides* Horik., J. Sci. Hiroshima Univ., Ser. B, Div. 2, Bot. 2: 178, 1934 (Horikawa 1934).
- *** ***Nowellia* Mitt.**, Nat. hist. Azores: 321, 1870 (Mitten 1870).
- ** **sect. *Acronowellia* R.M.Schust.**, Hepat. Anthocerotae N. Amer. 3: 816, 1974 (Schuster 1974).
- *** *Nowellia reedii* H.Rob., Bryologist 73 (1): 150, 1970 (Robinson 1970).
- *** *Nowellia yunckeri* Fulford, Mem. New York Bot. Gard. 11 (3): 329, 1968 (Fulford 1968).
- ** **sect. *Metanowellia* (Grolle) R.M.Schust.**, Hepat. Anthocerotae N. Amer. 3: 816, 1974 (Schuster 1974). Bas.: *Nowellia* subg. *Metanowellia* Grolle, J. Hattori Bot. Lab. 31: 33, 1968 (Grolle 1968b).
- *** *Nowellia borneensis* (De Not.) Schiffn., Hepat. (Engl.-Prantl): 98, 1893 (Schiffner 1893b). Bas.: *Jungermannia curvifolia* var. *borneensis* De Not., Epat. Borneo: 19, 1874 (De Notaris 1874).
- *** *Nowellia dominicensis* Steph., Sp. Hepat. (Stephani) 6: 443, 1924 (Stephani 1924).
- *** *Nowellia evansii* Grolle, J. Hattori Bot. Lab. 31: 33, 1968 (Grolle 1968b).
- *** *Nowellia langii* Pearson, J. Linn. Soc., Bot. 46 (305): 25, 1922 (Pearson 1922b).
- *** *Nowellia pusilla* Grolle, J. Hattori Bot. Lab. 31: 37, 1968 (Grolle 1968b).
- *** *Nowellia wrightii* (Gottsche ex Spruce) Steph. ex Duss, Enum. musc. Antilles franç., Hép.: 21, 1903 (Duss 1903). Bas.: *Cephalozia wrightii* Gottsche ex Spruce, J. Linn. Soc., Bot. 30 (210): 354, 1895 (Gepp 1895b).

** **sect. *Nowellia***

*** *Nowellia aciliata* (P.C.Chen et P.C.Wu) Mizut., *Hikobia* 11: 469, 1994 (Mizutani 1994). Bas.: *Nowellia curvifolia* var. *aciliata* P.C.Chen et P.C.Wu, *Obs. fl. Hwang.*: 6, 1965 (Chen and Wu 1965).

*** *Nowellia curvifolia* (Dicks.) Mitt., *Nat. hist. Azores*: 321, 1870 (Mitten 1870). Bas.: *Jungermannia curvifolia* Dicks., *Fasc. Pl. Crypt. Brit.* 2: 15, 1790 (Dickson 1790).

✱ **Odontoschismatoideae H.Buch ex Grolle**

*** ***Odontoschisma* (Dumort.) Dumort.**, *Recueil Observ. Jungerm.*: 19, 1835 (Dumortier 1835). Bas.: *Pleuroschisma* sect. *Odontoschisma* Dumort., *Syll. Jungerm. Europ.*: 68, 1831 (Dumortier 1831).

** **sect. *Cladopodiella* (H.Buch) Gradst., S.C.Aranda et Vanderp.**, *Taxon* 63 (5): 1017, 2014 (Aranda et al. 2014). Bas.: *Cladopodiella* H.Buch, *Memoranda Soc. Fauna Fl. Fennica* 1: 89, 1927 (Buch 1927).

*** *Odontoschisma francisci* (Hook.) L.Söderstr. et Váňa, *Phytotaxa* 112 (1): 12, 2013 (Váňa et al. 2013g). Bas.: *Jungermannia francisci* Hook., *Brit. Jungermann.*: tab. 49, 1813 (Hooker 1813).

** **sect. *Denudata* R.M.Schust.**, *Hepat. Anthocerotae N. Amer.* 3: 833, 1974 (Schuster 1974).

*** *Odontoschisma brasiliense* Steph., *Bull. Herb. Boissier (sér. 2)* 8 (8): 585 (369), 1908 (Stephani 1908e).

** *Odontoschisma cleefii* Gradst., S.C.Aranda et Vanderp., *Taxon* 63 (5): 1017, 2014 (Aranda et al. 2014).

*** *Odontoschisma denudatum* (Mart.) Dumort., *Recueil Observ. Jungerm.*: 19, 1835 (Dumortier 1835). Bas.: *Jungermannia scalaris* var. *denudata* Mart., *Fl. crypt. erlang.*: 183, 1817 (Martius 1817).

** *Odontoschisma denudatum* subsp. *naviculare* (Steph.) Gradst., S.C.Aranda et Vanderp., *Taxon* 63 (5): 1019, 2014 (Aranda et al. 2014). Bas.: *Jamesoniella navicularis* Steph., *Sp. Hepat. (Stephani)* 6: 101, 1917 (Stephani 1917a).

** *Odontoschisma denudatum* subsp. *sandvicense* (Ångstr.) Gradst., S.C.Aranda et Vanderp., *Taxon* 63 (5): 1019, 2014 (Aranda et al. 2014). Bas.: *Sphagnoecetis sandvicensis* Ångstr., *Öfvers. Kongl. Vetensk.-Akad. Förh.* 29 (4): 22, 1872 (Ångström 1872).

*** *Odontoschisma elongatum* (Lindb.) A.Evans, *Rhodora* 14 (157): 13, 1912 (Evans 1912b). Bas.: *Odontoschisma denudatum* f. *elongatum* Lindb., *Helsingf. Dagbl.* 1874 (45, 16 Feb): 2, 1874 (Lindberg 1874b).

*** *Odontoschisma engelii* Gradst. et Burghardt, *Fieldiana, Bot. (n.ser.)* 47: 194, 2008 (Gradstein and Burghardt 2008).

- *** *Odontoschisma longiflorum* (Taylor) Trevis., Mem. Reale Ist. Lombardo Sci. (Ser. 3), C. Sci. Mat. 4 (13): 419, 1877 (Trevisan 1877). Bas.: *Sphagnoecetis longiflora* Taylor, London J. Bot. 5: 281, 1846 (Taylor 1846a).
- *** *Odontoschisma macounii* (Austin) Underw., Bull. Illinois State Lab. Nat. Hist. 2 (1): 92, 1884 (Underwood 1884). Bas.: *Sphagnoecetis macounii* Austin, Bull. Torrey Bot. Club 3 (3): 13, 1872 (Austin 1872).
- *** *Odontoschisma portoricense* (Hampe et Gottsche) Steph., Hedwigia 27 (11/12): 296, 1888 (Stephani 1888c). Bas.: *Sphagnoecetis portoricensis* Hampe et Gottsche, Linnaea 25 (3): 343, 1852 [1853] (Hampe and Gottsche 1852).
- ** *Odontoschisma pseudogrosseverrucosum* Gradst., S.C.Aranda et Vanderp., Taxon 63 (5): 1019, 2014 (Aranda et al. 2014).
- *** *Odontoschisma purpuratum* Herzog, Trans. Brit. Bryol. Soc. 1 (4): 297, 1950 (Herzog 1950a).
- *** *Odontoschisma soratamum* Fulford, Mem. New York Bot. Gard. 11 (3): 338, 1968 (Fulford 1968).
- *** *Odontoschisma variabile* (Lindenb. et Gottsche) Trevis., Mem. Reale Ist. Lombardo Sci. (Ser. 3), C. Sci. Mat. 4 (13): 419, 1877 (Trevisan 1877). Bas.: *Sphagnoecetis variabilis* Lindenb. et Gottsche, Syn. Hepat. 5: 688, 1847 (Gottsche et al. 1847).
- ** *Odontoschisma zhui* Gradst., S.C.Aranda et Vanderp., Taxon 63 (5): 1020, 2014 (Aranda et al. 2014).
- ** **sect. *Iwatsukia* (N.Kitag.) Gradst., S.C.Aranda et Vanderp.**, Phytotaxa 162 (4): 232, 2014 (Gradstein et al. 2014b). Bas.: *Iwatsukia* N.Kitag., J. Hattori Bot. Lab. 27: 178, 1964 (Kitagawa 1964).
- *** *Odontoschisma bifidum* (Fulford) Gradst., S.C.Aranda et Vanderp., Phytotaxa 162 (4): 232, 2014 (Gradstein et al. 2014b). Bas.: *Cladomastigum bifidum* Fulford, Acta Bot. Venez. 2 (5/8): 80, 1967 (Fulford 1967).
- *** *Odontoschisma jishibae* (Steph.) L.Söderstr. et Váňa, Phytotaxa 112 (1): 13, 2013 (Váňa et al. 2013g). Bas.: *Cephalozia jishibae* Steph., Sp. Hepat. (Stephani) 6: 437, 1924 (Stephani 1924).
- *** *Odontoschisma spinosum* (Fulford) Gradst., S.C.Aranda et Vanderp., Phytotaxa 162 (4): 232, 2014 (Gradstein et al. 2014b). Bas.: *Cladomastigum spinosum* Fulford, Mem. New York Bot. Gard. 23: 840, 1972 (Fulford 1972).
- ** **sect. *Neesia* Gradst., S.C.Aranda et Vanderp.**, Taxon 63 (5): 1017, 2014 (Aranda et al. 2014).
- *** *Odontoschisma fluitans* (Nees) L.Söderstr. et Váňa, Phytotaxa 112 (1): 12, 2013 (Váňa et al. 2013g). Bas.: *Jungermannia fluitans* Nees, Flora 6 (2): 30, 1823 (Link 1823).
- ** **sect. *Odontoschisma***
- *** *Odontoschisma grosseverrucosum* Steph., Bull. Herb. Boissier (sér. 2) 8 (8): 593 (377), 1908 (Stephani 1908e).

- *** *Odontoschisma sphagni* (Dicks.) Dumort., Recueil Observ. Jungerm.: 19, 1835 (Dumortier 1835). Bas.: *Jungermannia sphagni* Dicks., Fasc. Pl. Crypt. Brit. 1: 6, 1785 (Dickson 1785).
- ** *Odontoschisma steyermarkii* Gradst. et Ilk.-Borg., Nova Hedwigia 100 (1/2): 38, 2015 [2014 online] (Gradstein and Ilkiu-Borges 2015).

Incertae sedis

- * *Odontoschisma obcordatum* (Spruce) Steph., Bull. Herb. Boissier (sér. 2) 8 (8): 586 (370), 1908 (Stephani 1908e). Bas.: *Cephalozia obcordata* Spruce, Cephalozia: 61, 1882 (Spruce 1882).⁴⁰

✱ Schiffnerioideae R.M.Schust.

- ** ***Schiffneria* Steph.**, Österr. Bot. Z. 44 (1): 1, 1894 (Stephani 1894c).
- *** *Schiffneria hyalina* Steph., Österr. Bot. Z. 44 (1): 1, 1894 (Stephani 1894c).

✱ Trabacelluloideae R.M.Schust.

- ** ***Haesselia* Grolle et Gradst.**, J. Hattori Bot. Lab. 64: 327, 1988 (Grolle and Gradstein 1988).
- *** *Haesselia acuminata* Gradst., Trop. Bryol. 1: 30, 1989 (Gradstein and Florschütz-de Waard 1989).
- *** *Haesselia roraimensis* Grolle et Gradst., J. Hattori Bot. Lab. 64: 327, 1988 (Grolle and Gradstein 1988).
- ** ***Trabacellula* Fulford**, Acta Bot. Venez. 2 (5/8): 86, 1967 (Fulford 1967).
- *** *Trabacellula tumidula* Fulford, Acta Bot. Venez. 2 (5/8): 86, 1967 (Fulford 1967).

*** Cephaloziellaceae Douin

by J. Váňa

The treatment of Cephaloziellaceae follows what was outlined in Váňa et al. (2013e). Some nomenclatural and taxonomic notes can also be found in Söderström et al. (2013a) and Váňa et al. (2013b, 2013l). The placement of *Phycolepidozia* follows Gradstein et al. (2014a).

⁴⁰ *Odontoschisma obcordatum* is to be excluded from *Odontoschisma* but its identity remains unclear as the type is not found. Based on the original description this species might belong to *Alobiellopsis* (Gradstein & Ilkiu-Borges 2014: 81).

- *** *Allisoniella* **E.A.Hodgs.**, Trans. Roy. Soc. New Zealand, Bot. 3 (4): 80, 1965 (Hodgson 1965).
- ** **sect. *Allisoniella***
- *** *Allisoniella nigra* (Rodway) R.M.Schust., Nova Hedwigia 22: 137, 1971 [1972] (Schuster 1971b). Bas.: *Sphenolobus niger* Rodway, Tasm. Bryoph.: 33, 1917 (Rodway 1917b).
- ** *Allisoniella nigra* var. *acutiloba* J.J.Engel, Novon 17 (3): 313, 2007 (Engel 2007).
- ** *Allisoniella nigra* subsp. *novaezelandiae* R.M.Schust., Nova Hedwigia 22: 143, 1971 [1972] (Schuster 1971b).
- *** *Allisoniella recurva* R.M.Schust., Nova Hedwigia 22: 146, 1971 [1972] (Schuster 1971b).
- *** *Allisoniella subbipartita* (C.Massal.) R.M.Schust. et J.J.Engel, Nova Hedwigia 22: 147, 1971 [1972] (Schuster 1971b). Bas.: *Cephalozia subbipartita* C.Massal., Nuovo Giorn. Bot. Ital. 17 (3): 235, 1885 (Massalongo 1885).
- *** *Allisoniella tasmanica* R.M.Schust., Nova Hedwigia 22: 145, 1971 [1972] (Schuster 1971b).
- ** **sect. *Protomarsupella* (R.M.Schust.) R.M.Schust.**, Nova Hedwigia 22: 150, 1971 (Schuster 1971b). Bas.: *Protomarsupella* R.M.Schust., Rev. Bryol. Lichénol. 34 (1/2): 264, 1966 (Schuster 1966b).
- *** *Allisoniella scottii* (R.M.Schust.) R.M.Schust., Nova Hedwigia 22: 151, 1971 [1972] (Schuster 1971b). Bas.: *Protomarsupella scottii* R.M.Schust., Rev. Bryol. Lichénol. 34 (1/2): 267, 1966 (Schuster 1966b).
- *** ***Amphicephalozia* R.M.Schust.**, Nova Hedwigia 22: 131, 1971 [1972] (Schuster 1971b).
- *** *Amphicephalozia africana* Váňa et M.Wigginton, J. Bryol. 30 (1): 55, 2008 (Váňa and Wigginton 2008).
- *** *Amphicephalozia amplexicaulis* R.M.Schust., Nova Hedwigia 22: 133, 1971 [1972] (Schuster 1971b).
- *** *Amphicephalozia geisslerae* Pócs et Váňa, Polish Bot. J. 46 (2): 145, 2001 (Pócs and Váňa 2001).
- *** ***Anastrophyllopsis* (R.M.Schust.) Váňa et L.Söderstr.**, Phytotaxa 81 (1): 15, 2013 (Váňa et al. 2013k). Bas.: *Anastrophyllum* sect. *Anastrophyllopsis* R.M.Schust., Beih. Nova Hedwigia 119: 310, 2002 (Schuster 2002b).
- *** *Anastrophyllopsis involutifolia* (Mont. ex Gottsche, Lindenb. et Nees) Váňa et L.Söderstr., Phytotaxa 81 (1): 15, 2013 (Váňa et al. 2013k). Bas.: *Jungermannia involutifolia* Mont. ex Gottsche, Lindenb. et Nees, Syn. Hepat. 1: 81, 1844 (Gottsche et al. 1844).
- *** *Anastrophyllopsis revoluta* (Steph.) Váňa et L.Söderstr., Phytotaxa 81 (1): 16, 2013 (Váňa et al. 2013k). Bas.: *Anastrophyllum revolutum* Steph., Hedwigia 32 (3): 139, 1893 (Stephani 1893b).

- *** *Anastrophyllopsis subcomplicata* (Lehm. et Lindenb.) Váňa et L.Söderstr., *Phytotaxa* 81 (1): 16, 2013 (Váňa et al. 2013k). Bas.: *Jungermannia subcomplicata* Lehm. et Lindenb., *Nov. Stirp. Pug.* 7: 4, 1838 (Lehmann 1838).
- ** ***Cephalojonesia* Grolle**, *Rev. Bryol. Lichénol.* 37 (4): 763, 1970 [1971] (Grolle and Vanden Berghen 1970).
- *** *Cephalojonesia incuba* Grolle et Vanden Berghen, *Rev. Bryol. Lichénol.* 37 (4): 764, 1970 [1971] (Grolle and Vanden Berghen 1970).
- *** *Cephalojonesia incuba* subsp. *mexicana* Burghardt, *Gradst. et Váňa, J. Hattori Bot. Lab.* 100: 35, 2006 (Burghardt et al. 2006).
- ** ***Cephalomitrion* R.M.Schust.**, *Nova Hedwigia* 61 (3/4): 550, 1995 (Schuster 1995b).
- *** *Cephalomitrion aterrimum* (Steph.) R.M.Schust., *Nova Hedwigia* 61 (3/4): 554, 1995 (Schuster 1995b). Bas.: *Cephalozia aterrima* Steph., *Bull. Herb. Boissier (sér. 2)* 8 (7): 501 (331), 1908 (Stephani 1908f).
- *** ***Cephaloziella* (Spruce) Schiffn.**, *Hepat. (Engl.-Prantl)*: 98, 1893 (Schiffner 1893b) nom. conserv. Bas.: *Cephalozia* subg. *Cephaloziella* Spruce, *Cephalozia*: 62, 1882 (Spruce 1882).⁴¹
- ** **subg. *Cephaloziella***
- *** *Cephaloziella aenigmatica* R.M.Schust., *Nova Hedwigia* 63 (1/2): 20, 1996 (Schuster 1996d).
- *** *Cephaloziella anthelioides* S.W.Arnell, *Bot. Not.* 105: 322, 1952 (Arnell 1952a).
- *** *Cephaloziella arctogena* (R.M.Schust.) Konstant., *Arctoa* 3: 126, 1994 (Konstantinova and Vasil'ev 1994). Bas.: *Cephaloziella rubella* var. *arctogena* R.M.Schust., *Hepat. Anthocerotae N. Amer.* 4: 125, 1980 (Schuster 1980c).
- ** *Cephaloziella arenaria* (Steph.) R.M.Schust., *J. Hattori Bot. Lab.* 26: 280, 1963 (Schuster 1963b). Bas.: *Cephalozia arenaria* Steph., *Bull. Herb. Boissier (sér. 2)* 8 (7): 504 (334), 1908 (Stephani 1908f).
- *** *Cephaloziella aspericaulis* Jørg., *Bergens Mus. Skr. (n.ser.)* 16: 197, 1934 (Jørgensen 1934).
- *** *Cephaloziella baumgartneri* Schiffn., *Verh. K.K. Zool.-Bot. Ges. Wien* 56 (3): 273, 1906 (Schiffner 1906c).
- ** *Cephaloziella breviperianthia* C.Gao, *Fl. Hepat. Chin. Boreali-Orient.*: 208, 1981 (Gao and Chang 1981).
- ** *Cephaloziella brinkmannii* Douin, *Mém. Soc. Bot. France* 29: 75, 1920 (Douin 1920).
- *** *Cephaloziella capensis* (Sim) S.W.Arnell, *Bot. Not.* 105: 326, 1952 (Arnell 1952a). Bas.: *Cephalozia capensis* Sim, *Trans. Roy. Soc. South Africa* 15 (1): 87, 1926 (Sim 1926).

41 *Cephaloziella* is a large genus and the subgeneric division is unclear. The traditional subdivisions used here do not necessary agree with recent phylogenetic studies.

- *** *Cephaloziella capillaris* (Steph.) Douin, Mém. Soc. Bot. France 29: 59, 1920 (Douin 1920). Bas.: *Cephalozia capillaris* Steph., Bull. Herb. Boissier (sér. 2) 8 (7): 496 (326), 1908 (Stephani 1908f).
- *** *Cephaloziella crassigyna* (R.M.Schust.) R.M.Schust., Nova Hedwigia 61 (3/4): 556, 1995 (Schuster 1995b). Bas.: *Cephaloziella aterrima* var. *crassigyna* R.M.Schust., Nova Hedwigia 22: 211, 1971 [1972] (Schuster 1971b).
- *** *Cephaloziella crispata* N.Kitag., J. Hattori Bot. Lab. 32: 301, 1969 (Kitagawa 1969c).
- *** *Cephaloziella densifolia* R.M.Schust., Nova Hedwigia 22: 199, 1971 [1972] (Schuster 1971b).
- ** *Cephaloziella densifolia* var. *dubia* R.M.Schust., Nova Hedwigia 22: 202, 1971 [1972] (Schuster 1971b).
- *** *Cephaloziella divaricata* (Sm.) Schiffn., Hepat. (Engl.-Prantl): 99, 1893 (Schiffner 1893b). Bas.: *Jungermannia divaricata* Sm., Engl. Bot. 10: tab. 719, 1800 (Smith and Sowerby 1800).
- ** *Cephaloziella divaricata* var. *scabra* (M.Howe) Haynes, Bryologist 12 (4): 68, 1909 (Haynes 1909). Bas.: *Cephalozia divaricata* var. *scabra* M.Howe, Mem. Torrey Bot. Club 7: 129, 1899 (Howe 1899).⁴²
- ** *Cephaloziella dusenii* Steph., Bih. Kongl. Svenska Vetensk.-Akad. Handl. 26 (III, 6): 49, 1900 (Stephani 1900b).
- *** *Cephaloziella elachista* (J.B.Jack ex Gottsche et Rabenh.) Schiffn., Sitzungsber. deutsch. naturwiss.-med. Vereins Böhmen "Lotos" Prag 48: 336, 1900 (Schiffner 1900d). Bas.: *Jungermannia elachista* J.B.Jack ex Gottsche et Rabenh., Hepat. Eur., Leberm. 58-59: no. 574, 1873 (Gottsche and Rabenhorst 1873a).
- ** *Cephaloziella elachista* var. *spinophylla* (C.Gao) C.Gao, Fl. Bryoph. Sin. 9: 181, 2003 (Gao 2003). Bas.: *Cephaloziella spinophylla* C.Gao, Fl. Hepat. Chin. Boreali-Orient.: 208, 1981 (Gao and Chang 1981).
- ** *Cephaloziella elegans* (Heeg) Schiffn., Sitzungsber. deutsch. naturwiss.-med. Vereins Böhmen "Lotos" Prag 48: 336, 1900 (Schiffner 1900d). Bas.: *Cephalozia elegans* Heeg, Rev. Bryol. 20 (5): 82, 1893 (Heeg 1893).
- *** *Cephaloziella exigua* R.M.Schust., Nova Hedwigia 63 (1/2): 49, 1996 (Schuster 1996d).
- *** *Cephaloziella exiliflora* (Taylor) Douin, Mém. Soc. Bot. France 29: 72, 1920 (Douin 1920). Bas.: *Jungermannia exiliflora* Taylor, London J. Bot. 5: 279, 1846 (Taylor 1846a).
- ** *Cephaloziella fragillima* (Spruce) Fulford, Mem. New York Bot. Gard. 11 (4): 409, 1976 (Fulford 1976). Bas.: *Cephalozia fragillima* Spruce, Mem. Torrey Bot. Club 1 (3): 131, 1890 (Spruce 1890).
- *** *Cephaloziella garsidei* S.W.Arnell, Rev. Bryol. Lichénol. 23 (1/2): 173, 1954 (Arnell 1954a).
- *** *Cephaloziella grandiretis* (R.M.Schust.) R.M.Schust., Nova Hedwigia 63 (1/2): 35, 1996 (Schuster 1996d). Bas.: *Cephaloziella byssacea* subsp. *grandiretis* R.M.Schust., Nova Hedwigia 22: 195, 1971 [1972] (Schuster 1971b).

42 The correct name for the variety was discussed by Söderström et al. (2012d).

- *** *Cephaloziella grimsulana* (J.B.Jack ex Gottsche et Rabenh.) Lacout., Hépat. France: 52, 1905 (Lacouture 1905). Bas.: *Jungermannia grimsulana* J.B.Jack ex Gottsche et Rabenh., Hepat. Eur., Leberm. 53–55: no. 526, 1872 (Gottsche and Rabenhorst 1872).
- *** *Cephaloziella hampeana* (Nees) Schiffn. ex Loeske, Moosfl. Harz.: 92, 1903 (Loeske 1903). Bas.: *Jungermannia hampeana* Nees, Naturgesch. Eur. Leberm. 3: 560, 1838 (Nees 1838b).
- ** *Cephaloziella hebridensis* Steph., Hedwigia 32 (5): 316, 1893 (Stephani 1893d).
- *** *Cephaloziella herzogiana* (Pandé et K.P.Srivast.) Udar et D.Kumar, Geophytology 6 (1): 45, 1976 (Udar and Kumar 1976). Bas.: *Cephalozia herzogiana* Pandé et K.P.Srivast., Feddes Repert. Spec. Nov. Regni Veg. 58: 75, 1955 (Pandé and Srivastava 1955).
- ** *Cephaloziella heteroica* (C.M.Cooke) Douin, Mém. Soc. Bot. France 29: 76, 1920 (Douin 1920). Bas.: *Cephalozia heteroica* C.M.Cooke, Trans. Connecticut Acad. Arts 12 (1): 38, 1904 (Cooke 1904).
- ** *Cephaloziella hyalina* Douin, Mém. Soc. Bot. France 29: 77, 1920 (Douin 1920).
- * *Cephaloziella hyalina* var. *rappii* (Douin) R.M.Schust., Hepat. Anthocerotae N. Amer. 4: 56, 1980 (Schuster 1980c). Bas.: *Cephaloziella rappii* Douin, Mém. Soc. Bot. France 29: 77, 1920 (Douin 1920).
- *** *Cephaloziella inaequalis* R.M.Schust., Nova Hedwigia 22: 186, 1971 [1972] (Schuster 1971b).
- *** *Cephaloziella invisula* R.M.Schust., Nova Hedwigia 63 (1/2): 30, 1996 (Schuster 1996d).
- ** *Cephaloziella kilohanensis* (C.M.Cooke) Douin, Mém. Soc. Bot. France 29: 85, 1920 (Douin 1920). Bas.: *Cephalozia kilohanensis* C.M.Cooke, Trans. Connecticut Acad. Arts 12 (1): 37, 1904 (Cooke 1904).
- *** *Cephaloziella longii* Váňa, Folia Geobot. Phytotax. 27 (2): 193, 1992 (Váňa 1992).
- *** *Cephaloziella lycopodioides* (Sim) S.W.Arnell, Bot. Not. 105: 321, 1952 (Arnell 1952a). Bas.: *Cephalozia lycopodioides* Sim, Trans. Roy. Soc. South Africa 15 (1): 85, 1926 (Sim 1926).
- ** *Cephaloziella mammillifera* R.M.Schust. et Damsh., Phytologia 63 (5): 327, 1987 (Schuster and Damsholt 1987).
- *** *Cephaloziella massalongi* (Spruce) Müll.Frib., Lebermoose 2 (17): 191, 1913 (Müller 1913a). Bas.: *Cephalozia massalongi* Spruce, Cephalozia: 71, 1882 (Spruce 1882).
- *** *Cephaloziella muelleriana* R.M.Schust., Nova Hedwigia 63 (1/2): 24, 1996 (Schuster 1996d).
- *** *Cephaloziella natalensis* (Sim) S.W.Arnell, Hepat. South Africa: 338, 1963 (Arnell 1963b). Bas.: *Cephalozia natalensis* Sim, Trans. Roy. Soc. South Africa 15 (1): 86, 1926 (Sim 1926).
- ** *Cephaloziella nicholsonii* Douin, Rev. Bryol. 40 (6): 81, 1913 (Douin 1913b).
- *** *Cephaloziella nothogena* R.M.Schust., Nova Hedwigia 63 (1/2): 37, 1996 (Schuster 1996d).
- ** *Cephaloziella obtusilobula* R.M.Schust., Hepat. Anthocerotae N. Amer. 4: 108, 1980 (Schuster 1980c).

- ** *Cephaloziella patulifolia* (Steph.) Douin, Mém. Soc. Bot. France 29: 70, 1920 (Douin 1920). Bas.: *Cephalozia patulifolia* Steph., Bull. Herb. Boissier (sér. 2) 8 (7): 509 (339), 1908 (Stephani 1908f).
- *** *Cephaloziella phyllacantha* (C.Massal. et Carestia) Müll.Frib., Lebermoose 2 (17): 194, 1913 (Müller 1913a). Bas.: *Anthelia phyllacantha* C.Massal. et Carestia, Nuovo Giorn. Bot. Ital. 12 (4): 340, 1880 (Massalongo and Carestia 1880).
- *** *Cephaloziella polystratos* (R.M.Schust. et Damsh.) Konstant., Bot. Zhurn. (Moscow & Leningrad) 85 (10): 127, 2000 (Konstantinova 2000). Bas.: *Cephaloziella byssacea* var. *polystratos* R.M.Schust. et Damsh., Phytologia 63 (5): 327, 1987 (Schuster and Damsholt 1987).
- *** *Cephaloziella pseudocrassigyna* R.M.Schust. ex J.J.Engel, Novon 17 (3): 313, 2007 (Engel 2007).
- *** *Cephaloziella pulcherrima* R.M.Schust., Nova Hedwigia 22: 203, 1971 [1972] (Schuster 1971b).
- ** *Cephaloziella pulcherrima* subsp. *sphagnicola* R.M.Schust., Nova Hedwigia 22: 205, 1971 [1972] (Schuster 1971b).
- ** *Cephaloziella pungens* Steph. ex Fulford, Mem. New York Bot. Gard. 11 (4): 410, 1976 (Fulford 1976).
- *** *Cephaloziella rubella* (Nees) Warnst., Krypt.-Fl. Brandenburg, Leber- & Torfmoose: 231, 1902 (Warnstorf 1902). Bas.: *Jungermannia rubella* Nees, Naturgesch. Eur. Leberm. 2: 236, 1836 (Nees 1836).
- *** *Cephaloziella schelpei* S.W.Arnell, Bot. Not. 110 (1): 18, 1957 (Arnell 1957a).
- *** *Cephaloziella spegazziniana* (C.Massal.) Douin, Mém. Soc. Bot. France 29: 69, 1920 (Douin 1920). Bas.: *Cephalozia spegazziniana* C.Massal., Nuovo Giorn. Bot. Ital. 17 (3): 234, 1885 (Massalongo 1885).
- *** *Cephaloziella spinicaulis* Douin, Mém. Soc. Bot. France 29: 62, 1920 (Douin 1920).
- *** *Cephaloziella spinigera* (Lindb.) Jørg., Bergens Mus. Skr. (n.ser.) 16: 189, 1934 (Jørgensen 1934). Bas.: *Cephalozia spinigera* Lindb., Musci Scand.: 4, 1879 (Lindberg 1879).
- *** *Cephaloziella stellulifera* (Taylor ex Carrington et Pearson) Croz., Rev. Bryol. 30 (2): 31, 1903 (Crozals 1903a). Bas.: *Jungermannia stellulifera* Taylor ex Carrington et Pearson, Hepat. Brit. Exsicc. Fasc. I: no. 32, 1878 (Carrington and Pearson 1878).
- *** *Cephaloziella stephanii* Schiffn. ex Douin, Mém. Soc. Bot. France 29: 85, 1920 (Douin 1920).
- ** *Cephaloziella stolonifera* R.M.Schust., Phytologia 39 (6): 426, 1978 (Schuster 1978b).
- ** *Cephaloziella subtilis* (Lindenb. et Gottsche) Steph., Hedwigia 32 (5): 318, 1893 (Stephani 1893d). Bas.: *Jungermannia subtilis* Lindenb. et Gottsche, Syn. Hepat. 5: 685, 1847 (Gottsche et al. 1847).
- *** *Cephaloziella sumatrana* Schiffn. ex Douin, Mém. Soc. Bot. France 29: 59, 1920 (Douin 1920).
- *** *Cephaloziella tabularis* S.W.Arnell, Bot. Not. 105: 318, 1952 (Arnell 1952a).
- *** *Cephaloziella transvaalensis* S.W.Arnell, Bot. Not. 110 (1): 19, 1957 (Arnell 1957a).
- *** *Cephaloziella triplicata* S.W.Arnell, Bot. Not. 115: 203, 1962 (Arnell 1962a).

- *** *Cephaloziella umtaliensis* S.W.Arnell, Bot. Not. 110 (1): 20, 1957 (Arnell 1957a).
- *** *Cephaloziella uncinata* R.M.Schust., Meddel. Grønland 199 (1): 316, 1974 (Schuster and Damsholt 1974).
- ** *Cephaloziella uncinata* var. *brevigyna* R.M.Schust. et Damsh., Phytologia 63 (5): 327, 1987 (Schuster and Damsholt 1987).
- ** *Cephaloziella uncinata* var. *sphagnicola* R.M.Schust., Meddel. Grønland 199 (1): 323, 1974 (Schuster and Damsholt 1974).
- *** *Cephaloziella vaginans* Steph., Wiss. Ergebn. Deut. Zentr.-Afr. Exped. (1907-08), Bot. 2: 119, 1911 (Stephani 1911a).
- *** *Cephaloziella varians* (Gottsche) Steph., Wiss. Ergebn. Schwed. Südpolar-Exped. [1901–1903] 4 (1): 4, 1905 (Stephani 1905e). Bas.: *Jungermannia varians* Gottsche, Int. Polarforsch., Deutsch. Exped. 2: 452, 1890 (Gottsche 1890).
- *** *Cephaloziella verrucosa* Steph., Hedwigia 32 (5): 318, 1893 (Stephani 1893d).
- * *Cephaloziella villaumei* (Steph.) Váňa, Phytotaxa 112 (1): 3, 2013 (Váňa et al. 2013e). Bas.: *Cephalozia villaumei* Steph., Sp. Hepat. (Stephani) 6: 437, 1924 (Stephani 1924).⁴³
- ** *Cephaloziella violacea* Schljakov, Novosti Sist. Nizš. Rast. 15: 242, 1978 (Shliakov 1978).
- ** *Cephaloziella welwitschii* (Steph.) Douin, Mém. Soc. Bot. France 29: 58, 1920 (Douin 1920). Bas.: *Cephalozia welwitschii* Steph., Bull. Herb. Boissier (sér. 2) 8 (6): 432 (308), 1908 (Stephani 1908g).
- ** **subg. *Dichiton* (Mont.) Müll.Frib.**, Lebermoose 2 (27): 787, 1916 (Müller 1916). Bas.: *Dichiton* Mont., Syll. Gen. Sp. Crypt.: 52, 1856 (Montagne 1856b).
- *** *Cephaloziella calyculata* (Durieu et Mont.) Müll.Frib., Lebermoose 2 (27): 787, 1916 (Müller 1916). Bas.: *Jungermannia calyculata* Durieu et Mont., Ann. Sci. Nat. Bot. (sér. 3) 11: 34, 1849 (Montagne 1849).
- *** *Cephaloziella integerrima* (Lindb.) Warnst., Krypt.-Fl. Brandenburg, Leber- & Torfmoose: 232, 1902 (Warnstorf 1902). Bas.: *Cephalozia integerrima* Lindb., Acta Soc. Sci. Fenn. 10: 502, 1875 (Lindberg 1875).
- ** **subg. *Evansia* (Douin et Schiffn.) Müll.Frib.**, Lebermoose 2 (27): 787, 1916 (Müller 1916). Bas.: *Evansia* Douin et Schiffn., Rev. Bryol. 40 (5): 66, 1913 (Douin 1913a).
- *** *Cephaloziella antillana* (Besch. et Spruce) Fulford, Mem. New York Bot. Gard. 11 (4): 405, 1976 (Fulford 1976). Bas.: *Cephalozia antillana* Besch. et Spruce, Bull. Soc. Bot. France (Congr. Bot.) 36: clxxxiii, 1889 [1890] (Bescherelle and Spruce 1889).
- *** *Cephaloziella dentata* (Raddi) Steph., Bull. Herb. Boissier 5 (2): 78, 1897 (Stephani 1897b). Bas.: *Jungermannia dentata* Raddi, Jungermannogr. Etrusca: 21, 1818 (Raddi 1818a).
- *** *Cephaloziella hirta* (Steph.) R.M.Schust., J. Hattori Bot. Lab. 26: 280, 1963 (Schuster 1963b). Bas.: *Cephalozia hirta* Steph., Bull. Herb. Boissier (sér. 2) 8 (8): 561 (345), 1908 (Stephani 1908e).

⁴³ *Cephaloziella villaumei* is possibly conspecific with *Cephaloziella anthelioides*.

- ** *Cephaloziella squarrosula* (Trevis.) Steph., Hedwigia 32 (5): 318, 1893 (Stephani 1893d). Bas.: *Cephalozia squarrosula* Trevis., Mem. Reale Ist. Lombardo Sci. (Ser. 3), C. Sci. Mat. 4 (13): 417, 1877 (Trevisan 1877).
- *** *Cephaloziella subspinosa* R.M.Schust., Nova Hedwigia 22: 210, 1971 [1972] (Schuster 1971b).
- ** **subg. *Prionolobus* (Spruce) Müll.Frib.**, Lebermoose 2 (16): 110, 1912 (Müller 1912). Bas.: *Cephalozia* subg. *Prionolobus* Spruce, Trans. & Proc. Bot. Soc. Edinburgh 15: 508, 1885 (Spruce 1885).
- *** *Cephaloziella acanthophora* (S.Hatt.) Horik., Hikobia 1 (2): 79, 1951 (Horikawa 1951c). Bas.: *Prionolobus acanthophorus* S.Hatt., Bull. Tokyo Sci. Mus. 11: 29, 1944 (Hattori 1944d).
- *** *Cephaloziella biokoensis* Váňa et Frank Müll., Trop. Bryol. 24: 1, 2003 (Váňa and Müller 2003).
- *** *Cephaloziella granatensis* (J.B.Jack ex Steph.) Fulford, Mem. New York Bot. Gard. 11 (4): 411, 1976 (Fulford 1976). Bas.: *Cephalozia granatensis* J.B.Jack ex Steph., Bull. Herb. Boissier (sér. 2) 8 (7): 500 (330), 1908 (Stephani 1908f).
- *** *Cephaloziella grisea* R.M.Schust., Phytologia 39 (6): 425, 1978 (Schuster 1978b).
- * *Cephaloziella meghalayensis* Udar et Ad.Kumar, Lindbergia 8 (1): 34, 1982 (Udar and Kumar 1982d).⁴⁴
- *** *Cephaloziella microphylla* (Steph.) Douin, Mém. Soc. Bot. France 29: 59, 1920 (Douin 1920). Bas.: *Cephalozia microphylla* Steph., Bull. Herb. Boissier (sér. 2) 8 (7): 513 (343), 1908 (Stephani 1908f).
- *** *Cephaloziella tenuissima* (Lehm.) Steph., Hedwigia 32 (5): 318, 1893 (Stephani 1893d). Bas.: *Jungermannia tenuissima* Lehm., Linnaea 4: 367, 1829 (Lehmann 1829).
- *** *Cephaloziella turneri* (Hook.) Müll.Frib., Lebermoose 2 (17): 202, 1913 (Müller 1913a). Bas.: *Jungermannia turneri* Hook., Brit. Jungermann.: tab. 29, 1812 (Hooker 1812).

Incertae sedis

- ** *Cephaloziella dentifolia* Udar et Ad.Kumar, Lindbergia 8 (1): 30, 1982 (Udar and Kumar 1982d).
- ** *Cephaloziella filum* (Trevis.) Steph., Hedwigia 32 (5): 318, 1893 (Stephani 1893d). Bas.: *Cephalozia filum* Trevis., Mem. Reale Ist. Lombardo Sci. (Ser. 3), C. Sci. Mat. 4 (13): 417, 1877 (Trevisan 1877).
- * *Cephaloziella flexuosa* C.Gao et K.C.Chang, Bull. Bot. Res., Harbin 4 (3): 88, 1984 (Chang and Gao 1984).⁴⁵
- ** *Cephaloziella intricata* Schiffn. ex Douin, Mém. Soc. Bot. France 29: 59, 1920 (Douin 1920).

⁴⁴ *Cephaloziella meghalayensis* is probably conspecific with *Cephaloziella acanthophora* or *Cephaloziella microphylla*.

⁴⁵ *Cephaloziella flexuosa* may be a form of *Plicanthus birmensis* or a juvenile form of *Tetralophozia filiformis*.

- ** *Cephaloziella levieri* Schiffn. ex Douin, Mém. Soc. Bot. France 29: 80, 1920 (Douin 1920).
- *** *Cephaloziella pellucida* R.M.Schust., Nova Hedwigia 63 (1/2): 57, 1996 (Schuster 1996d).⁴⁶
- * *Cephaloziella pygmaea* (Spruce) Váňa, Phytotaxa 183 (4): 290, 2014 (Váňa et al. 2014a). Bas.: *Cephalozia pygmaea* Spruce, Cephalozia: 69, 1882 (Spruce 1882).⁴⁷
- * *Cephaloziella secundifolia* Pearson, Ann. Bryol. 4: 106, 1931 (Pearson 1931b).⁴⁸
- ** *Cephaloziella sinensis* Douin, Rev. Bryol. 41 (1): 8, 1914 (Douin 1914).
- ** ***Cephaloziopsis* (Spruce) Schiffn.**, Hepat. (Engl.-Prantl): 85, 1893 (Schiffner 1893b). Bas.: *Jungermannia* sect. *Cephaloziopsis* Spruce, Trans. & Proc. Bot. Soc. Edinburgh 15: 511, 1885 (Spruce 1885).
- *** *Cephaloziopsis intertexta* (Gottsche) R.M.Schust., Nova Hedwigia 22: 183, 1971 [1972] (Schuster 1971b). Bas.: *Jungermannia intertexta* Gottsche, Syn. Hepat. 1: 107, 1844 (Gottsche et al. 1844).
- ** ***Chaetophyllopsis* R.M.Schust.**, J. Hattori Bot. Lab. 23: 69, 1960 [1961] (Schuster 1960b).
- *** *Chaetophyllopsis whiteleggei* (Carrington et Pearson) R.M.Schust. ex Hamlin, Rec. Domin. Mus. 7: 255, 1972 (Hamlin 1972). Bas.: *Jungermannia whiteleggei* Carrington et Pearson, Proc. Linn. Soc. New South Wales (ser. 2) 2 (4): 1051, 1888 (Carrington and Pearson 1888a).
- ** ***Cylindrocolea* R.M.Schust.**, Bull. Natl. Sci. Mus. Tokyo (n.ser.) 12 (3): 666, 1969 (Schuster 1969a).
- ** **subg. *Cylindrocolea***
- *** *Cylindrocolea kiaeri* (Austin) Váňa, Phytotaxa 112 (1): 2, 2013 (Váňa et al. 2013e). Bas.: *Jungermannia kiaeri* Austin, Bull. Torrey Bot. Club 6 (3): 18, 1875 (Austin 1875b).
- *** *Cylindrocolea sanctae-helenae* M.Wigginton, Polish Bot. J. 58 (1): 107, 2013 (Wigginton 2013).
- ** **sect. *Cylindrocolea***
- *** *Cylindrocolea andersonii* R.M.Schust., Hepat. Anthocerotae N. Amer. 4: 33, 1980 (Schuster 1980c).
- *** *Cylindrocolea brasiliensis* D.P.Costa, N.D.Santos et Váňa, Bryologist 111 (4): 667, 2008 (Costa et al. 2008).
- *** *Cylindrocolea chevalieri* (Steph.) R.M.Schust., Bull. Natl. Sci. Mus. Tokyo (n.ser.) 12 (3): 666, 1969 (Schuster 1969a). Bas.: *Alobiella chevalieri* Steph., Bull. Herb. Boissier (sér. 2) 8 (8): 567 (351), 1908 (Stephani 1908e).

46 *Cephaloziella pellucida* is probably not a *Cephaloziella*, but the type specimen has not been found.

47 *Cephaloziella pygmaea* is possibly conspecific with *Cephaloziella granatensis* (Váňa et al. 2014a).

48 *Cephaloziella secundifolia* could not be studied by Fulford (1976) and she did not know what it is.

- *** *Cylindrocolea gittinsii* (E.W.Jones) R.M.Schust., Nova Hedwigia 22: 172, 1971 [1972] (Schuster 1971b). Bas.: *Cephaloziella gittinsii* E.W.Jones, Trans. Brit. Bryol. Soc. 3 (3): 437, 1958 (Jones 1958).
- *** *Cylindrocolea madagascariensis* (Steph.) R.M.Schust., Bull. Natl. Sci. Mus. Tokyo (n.ser.) 12 (3): 666, 1969 (Schuster 1969a). Bas.: *Lophozia madagascariensis* Steph., Sp. Hepat. (Stephani) 6: 112, 1917 (Stephani 1917a).
- *** *Cylindrocolea nigerica* (E.W.Jones) R.M.Schust., Nova Hedwigia 22: 172, 1971 [1972] (Schuster 1971b). Bas.: *Cephaloziella nigerica* E.W.Jones, Trans. Brit. Bryol. Soc. 3 (3): 435, 1958 (Jones 1958).
- *** *Cylindrocolea novae-caledoniae* (Grolle) R.M.Schust., Nova Hedwigia 22: 161, 1971 [1972] (Schuster 1971b). Bas.: *Cephaloziella novae-caledoniae* Grolle, Rev. Bryol. Lichénol. 29 (3/4): 208, 1960 [1961] (Grolle 1960a).
- *** *Cylindrocolea planifolia* (Steph.) R.M.Schust., Nova Hedwigia 22: 164, 1971 [1972] (Schuster 1971b). Bas.: *Cephaloziella planifolia* Steph., Hedwigia 32 (5): 317, 1893 (Stephani 1893d).
- *** *Cylindrocolea sprucei* R.M.Schust., Nova Hedwigia 22: 163, 1971 [1972] (Schuster 1971b).
- *** *Cylindrocolea ugandica* (E.W.Jones) R.M.Schust., Nova Hedwigia 22: 171, 1971 [1972] (Schuster 1971b). Bas.: *Cephaloziella ugandica* E.W.Jones, Trans. Brit. Bryol. Soc. 3 (3): 433, 1958 (Jones 1958).
- ** **sect. *Platycaulis* R.M.Schust.**, Nova Hedwigia 22: 173, 1971 (Schuster 1971b).
- *** *Cylindrocolea recurvifolia* (Steph.) Inoue, J. Jap. Bot. 47 (11): 348, 1972 (Inoue 1972a). Bas.: *Cephalozia recurvifolia* Steph., Bull. Herb. Boissier (sér. 2) 8 (7): 497 (327), 1908 (Stephani 1908f).
- *** *Cylindrocolea tagawae* (N.Kitag.) R.M.Schust., Nova Hedwigia 22: 174, 1971 [1972] (Schuster 1971b). Bas.: *Cephaloziella tagawae* N.Kitag., J. Hattori Bot. Lab. 32: 303, 1969 (Kitagawa 1969c).
- ** **subg. *Cylindroscyphus* (Douin) R.M.Schust.**, Hepat. Anthocerotae N. Amer. 4: 20, 1980 (Schuster 1980c). Bas.: *Cephaloziella* subg. *Cylindroscyphus* Douin, Mém. Soc. Bot. France 29: 56, 1920 (Douin 1920).
- *** *Cylindrocolea abyssinica* (Gola) Váňa, Phytotaxa 112 (1): 2, 2013 (Váňa et al. 2013e). Bas.: *Cephaloziella abyssinica* Gola, Ann. Bot. (Rome) 13 (1): 68, 1914 (Gola 1914a).
- ** *Cylindrocolea obtusifolia* Fulford, Mem. New York Bot. Gard. 11 (4): 401, 1976 (Fulford 1976).
- ** *Cylindrocolea reticulata* Udar et Ad.Kumar, Lindbergia 8 (3): 181, 1982 [1983] (Udar and Kumar 1982c).
- *** *Cylindrocolea rhizantha* (Mont.) R.M.Schust., Nova Hedwigia 22: 175, 1971 [1972] (Schuster 1971b). Bas.: *Jungermannia rhizantha* Mont., Hist. Phys. Cuba, Bot., Pl. Cell.: 454, 1842 (Montagne 1842a).

- *** **Gottscheia Grolle**, J. Hattori Bot. Lab. 31: 13, 1968 (Grolle 1968c).
- *** *Gottscheia maxima* (Steph.) Grolle, J. Bryol. 25 (1): 6, 2003 (Grolle et al. 2003). Bas.: *Tylimanthus maximus* Steph., Sp. Hepat. (Stephani) 6: 249, 1922 (Stephani 1922).
- *** *Gottscheia schizopleura* (Spruce) Grolle, J. Hattori Bot. Lab. 31: 16, 1968 (Grolle 1968c). Bas.: *Jungermannia schizopleura* Spruce, Trans. & Proc. Bot. Soc. Edinburgh 15: 517, 1885 (Spruce 1885).
- ** **Gymnocoleopsis (R.M.Schust.) R.M.Schust.**, Phytologia 39 (4): 243, 1978 (Schuster 1978a). Bas.: *Gymnocolea* subg. *Gymnocoleopsis* R.M.Schust., Bryologist 70 (1): 111, 1967 (Schuster 1967b).
- *** *Gymnocoleopsis capensis* (S.W.Arnell) R.M.Schust., J. Hattori Bot. Lab. 78: 123, 1995 (Schuster 1995c). Bas.: *Lophozia capensis* S.W.Arnell, Svensk Bot. Tidskr. 47 (1): 112, 1953 (Arnell 1953a).
- *** *Gymnocoleopsis cylindriciformis* (Mitt.) R.M.Schust., J. Hattori Bot. Lab. 78: 126, 1995 (Schuster 1995c). Bas.: *Jungermannia cylindriciformis* Mitt., J. Linn. Soc., Bot. 15 (84): 196, 1876 (Mitten 1876b).
- *** **Herzogobryum Grolle**, Rev. Bryol. Lichénol. 32 (3/4): 160, 1963 [1964] (Grolle 1963d). *Nom. nov. pro Chondrophyllum* Herzog, Rev. Bryol. Lichénol. 21 (1/2): 46, 1952 (Herzog 1952f).
- *** *Herzogobryum atrocapillum* (Hook.f. et Taylor) Grolle, Österr. Bot. Z. 113 (2): 228, 1966 (Grolle 1966j). Bas.: *Gymnomitrium atrocapillum* Hook.f. et Taylor, London J. Bot. 5: 258, 1846 (Taylor 1846a).
- *** *Herzogobryum filiforme* R.M.Schust., Phytologia 45 (5): 422, 1980 (Schuster 1980b).
- *** *Herzogobryum molle* Grolle, Österr. Bot. Z. 113 (2): 226, 1966 (Grolle 1966j).
- *** *Herzogobryum vermiculare* (Schiffn.) Grolle, J. Hattori Bot. Lab. 28: 103, 1965 (Grolle 1965e). Bas.: *Gymnomitrium vermiculare* Schiffn., Leberm., Forschungsgr. Gazelle 4 (4): 2, 1890 (Schiffner 1890).
- ** **Kymatocalyx Herzog**, Memoranda Soc. Fauna Fl. Fennica 25: 56, 1950 (Herzog 1950c).
- *** *Kymatocalyx africanus* Váňa et M. Wigginton, Haussknechtia, Beih. 9: 158, 1999 (Gradstein and Váňa 1999).
- *** *Kymatocalyx dominicensis* (Spruce) Váňa, Österr. Bot. Z. 118 (5): 575, 1970 (Váňa 1970b). Bas.: *Jungermannia dominicensis* Spruce, J. Linn. Soc., Bot. 30 (210): 363, 1895 (Gepp 1895b).
- *** *Kymatocalyx madagascariensis* (Steph.) Gradst. et Váňa, Haussknechtia, Beih. 9: 164, 1999 (Gradstein and Váňa 1999). Bas.: *Acrobolbus madagascariensis* Steph., Bull. Herb. Boissier (sér. 2) 2 (5): 460 (179), 1902 (Stephani 1902f).
- *** *Kymatocalyx rhizomaticus* (Herzog) Gradst. et Váňa, Haussknechtia, Beih. 9: 166, 1999 (Gradstein and Váňa 1999). Bas.: *Stenorhipis rhizomatica* Herzog, Trans. Brit. Bryol. Soc. 1 (4): 290, 1950 (Herzog 1950a).

- *** ***Lophonardia* R.M.Schust.**, *Phytologia* 39 (4): 244, 1978 (Schuster 1978a).
- *** *Lophonardia jamesonii* (Mont.) L.Söderstr. et Váňa, *Phytotaxa* 81 (1): 19, 2013 (Söderström et al. 2013a). Bas.: *Jungermannia jamesonii* Mont., *Syll. Gen. Sp. Crypt.*: 60, 1856 (Montagne 1856b).
- *** *Lophonardia laxifolia* (Mont.) L.Söderstr. et Váňa, *Phytotaxa* 81 (1): 20, 2013 (Söderström et al. 2013a). Bas.: *Sarcocypbos laxifolius* Mont., *Ann. Sci. Nat. Bot.* (sér. 3) 4: 346, 1845 (Montagne 1845b).
- *** *Lophonardia tristaniana* (S.W.Arnell) L.Söderstr. et Váňa, *Phytotaxa* 81 (1): 20, 2013 (Söderström et al. 2013a). Bas.: *Jungermannia tristaniana* S.W.Arnell, *Results Norweg. Sci. Exped. Tristan da Cunha* 42: 12, 1958 (Arnell 1958b).
- *** ***Nothogymnomitrium* R.M.Schust.**, *J. Hattori Bot. Lab.* 80: 43, 1996 (Schuster 1996a).
- *** *Nothogymnomitrium erosum* (Carrington et Pearson) R.M.Schust., *J. Hattori Bot. Lab.* 80: 44, 1996 (Schuster 1996a). Bas.: *Cesius erosus* Carrington et Pearson, *Pap. & Proc. Roy. Soc. Tasmania* 1887: 8, 1888 (Carrington and Pearson 1888b).
- *** ***Obtusifolium* S.W.Arnell**, *Ill. Moss Fl. Fennosc. Hep.*: 309, 1956 (Arnell 1956b).
- *** *Obtusifolium obtusum* (Lindb.) S.W.Arnell, *Ill. Moss Fl. Fennosc. Hep.*: 133, 1956 (Arnell 1956b). Bas.: *Jungermannia obtusa* Lindb., *Musci Scand.*: 7, 1879 (Lindberg 1879).
- *** ***Oleolophozia* L.Söderstr., De Roo et Hedd.**, *Phytotaxa* 3: 50, 2010 (Söderström et al. 2010b).
- *** *Oleolophozia perssonii* (H.Buch et S.W.Arnell) L.Söderstr., De Roo et Hedd., *Phytotaxa* 3: 51, 2010 (Söderström et al. 2010b). Bas.: *Lophozia perssonii* H.Buch et S.W.Arnell, *Bot. Not.* 97: 382, 1944 (Buch 1944).
- ** ***Phycolepidozia* R.M.Schust.**, *Bull. Torrey Bot. Club* 93 (6): 438, 1966 [1967] (Schuster 1966f).
- ** **subg. *Metaphycolepidozia* Gradst., J.-P.Frahm et U.Schwarz**, *Taxon* 63 (3): 506, 2014 (Gradstein et al. 2014a).
- ** *Phycolepidozia indica* Gradst., J.-P.Frahm et U.Schwarz, *Taxon* 63 (3): 499, 2014 (Gradstein et al. 2014a).
- ** **subg. *Phycolepidozia***
- *** *Phycolepidozia exigua* R.M.Schust., *Bull. Torrey Bot. Club* 93 (6): 440, 1966 [1967] (Schuster 1966f).
- ** ***Protolophozia* (R.M.Schust.) Schljakov**, *Novosti Sist. Nizš. Rast.* 16: 204, 1979 (Shliakov 1979). Bas.: *Lophozia* subg. *Protolophozia* R.M.Schust., *Nova Hedwigia* 15: 472, 1968 (Schuster 1968b).

- ** *Protolophozia androgyna* R.M.Schust. ex Váňa et L.Söderstr., *Phytotaxa* 76 (3): 51, 2013 (Váňa et al. 2013l). Based on: *Lophozia androgyna* R.M.Schust., *Beih. Nova Hedwigia* 119: 266, 2002 (Schuster 2002b), *nom. inval.*
- ** *Protolophozia autoica* (R.M.Schust.) Váňa et L.Söderstr., *Phytotaxa* 76 (3): 51, 2013 (Váňa et al. 2013l). Bas.: *Lophozia autoica* R.M.Schust., *Nova Hedwigia* 15: 479, 1968 (Schuster 1968b).
- ** *Protolophozia crispata* (R.M.Schust.) Váňa et L.Söderstr., *Phytotaxa* 76 (3): 51, 2013 (Váňa et al. 2013l). Bas.: *Lophozia crispata* R.M.Schust., *Nova Hedwigia* 15: 474, 1968 (Schuster 1968b).
- *** *Protolophozia druceae* (Grolle et E.A.Hodgs.) Váňa et L.Söderstr., *Phytotaxa* 76 (3): 51, 2013 (Váňa et al. 2013l). Bas.: *Lophozia druceae* Grolle et E.A.Hodgs., *J. Roy. Soc. New Zealand* 2 (1): 112, 1972 (Hodgson 1972).
- *** *Protolophozia elongata* (Steph.) Schljakov, *Novosti Sist. Nizš. Rast.* 16: 204, 1979 (Shliakov 1979). Bas.: *Lophozia elongata* Steph., *Bull. Herb. Boissier (sér. 2)* 2 (1): 41 (141), 1902 (Stephani 1902c).
- *** *Protolophozia herzogiana* (E.A.Hodgs. et Grolle) Váňa et L.Söderstr., *Phytotaxa* 76 (3): 51, 2013 (Váňa et al. 2013l). Bas.: *Lophozia herzogiana* E.A.Hodgs. et Grolle, *Rev. Bryol. Lichénol.* 31 (3/4): 152, 1962 [1963] (Grolle 1962c).
- *** *Protolophozia lancistipa* (Grolle) Váňa et L.Söderstr., *Phytotaxa* 76 (3): 51, 2013 (Váňa et al. 2013l). Bas.: *Andrewsianthus lancistipus* Grolle, *Marion Prince Edw. Is:* 230, 1971 (Grolle 1971d).
- *** *Protolophozia leucorbiza* (Mitt.) Váňa et L.Söderstr., *Phytotaxa* 76 (3): 51, 2013 (Váňa et al. 2013l). Bas.: *Jungermannia leucorbiza* Mitt., *J. Linn. Soc., Bot.* 15 (82): 68, 1876 (Mitten 1876a).
- *** *Protolophozia longiflora* (Herzog) L.Söderstr. et Váňa, *Phytotaxa* 76 (3): 51, 2013 (Váňa et al. 2013l). Bas.: *Orthocaulis longiflorus* Herzog, *Rev. Bryol. Lichénol.* 23 (1/2): 32, 1954 (Herzog 1954).
- ** *Protolophozia monoica* (E.A.Hodgs.) Váňa et L.Söderstr., *Phytotaxa* 76 (3): 52, 2013 (Váňa et al. 2013l). Bas.: *Metahygrobiella monoica* E.A.Hodgs., *Trans. Roy. Soc. New Zealand, Bot.* 3 (4): 76, 1965 (Hodgson 1965).
- *** *Protolophozia multicuspidata* (Hook.f. et Taylor) Váňa et L.Söderstr., *Phytotaxa* 76 (3): 52, 2013 (Váňa et al. 2013l). Bas.: *Jungermannia multicuspidata* Hook.f. et Taylor, *London J. Bot.* 3: 375, 1844 (Hooker and Taylor 1844a).
- ** *Protolophozia nivicola* (R.M.Schust.) Váňa et L.Söderstr., *Phytotaxa* 76 (3): 52, 2013 (Váňa et al. 2013l). Bas.: *Lophozia nivicola* R.M.Schust., *Nova Hedwigia* 15: 477, 1968 (Schuster 1968b).
- *** *Protolophozia perssoniana* (H.A.Mill.) Váňa et L.Söderstr., *Phytotaxa* 76 (3): 52, 2013 (Váňa et al. 2013l). Bas.: *Lophozia perssoniana* H.A.Mill., *Ark. Bot. (n.ser.)* 5 (2): 508, 1963 (Miller 1963).
- ** *Protolophozia subalpina* (R.M.Schust.) Váňa et L.Söderstr., *Phytotaxa* 76 (3): 52, 2013 (Váňa et al. 2013l). Bas.: *Lophozia autoica* var. *subalpina* R.M.Schust., *Nova Hedwigia* 15: 482, 1968 (Schuster 1968b).

- *** *Protolophozia tasmanica* (R.M.Schust.) Váňa et L.Söderstr., Phytotaxa 76 (3): 52, 2013 (Váňa et al. 2013l). Bas.: *Lophozia tasmanica* R.M.Schust., Nova Hedwigia 15: 484, 1968 (Schuster 1968b).
- *** *Protolophozia verruculosa* (R.M.Schust.) Váňa et L.Söderstr., Phytotaxa 76 (3): 52, 2013 (Váňa et al. 2013l). Bas.: *Lophozia verruculosa* R.M.Schust., Phytologia 39 (4): 242, 1978 (Schuster 1978a).

*** Lophoziaceae Cavers

by L. Söderström and J. Váňa

Lophoziaceae was broadly defined by de Roo et al. (2007) excluding Anastrophyllaceae and Jamesonielloideae and also moving several traditionally included genera to other families. Vilnet et al. (2010) further refined the family. Nomenclatural and taxonomic notes can also be found in Vilnet et al. (2007b, 2008), Söderström et al. (2013c) and Váňa et al. (2013m). The placement of *Gerhildiella* and *Pseudocephaloziella* in the family is provisional.

- *** *Andrewsianthus* R.M.Schust., Rev. Bryol. Lichénol. 30 (1/2): 66, 1961 (Schuster 1961a).

** subg. *Andrewsianthus*

- *** *Andrewsianthus aberrans* (Nees et Mont.) Grolle, Trans. Brit. Bryol. Soc. 4 (3): 440, 1963 (Grolle 1963a). Bas.: *Jungermannia aberrans* Nees et Mont., Ann. Sci. Nat. Bot. (sér. 2) 19: 250, 1843 (Montagne 1843).
- *** *Andrewsianthus bidens* (Mitt. ex Steph.) R.M.Schust., Nova Hedwigia 15: 492, 1968 (Schuster 1968b). Bas.: *Lophozia bidens* Mitt. ex Steph., Bull. Herb. Boissier (sér. 2) 2 (1): 41 (141), 1902 (Stephani 1902c).
- *** *Andrewsianthus bilobus* (Mitt.) Grolle, Trans. Brit. Bryol. Soc. 4 (3): 437, 1963 (Grolle 1963a). Bas.: *Gymnanthe biloba* Mitt., J. Proc. Linn. Soc., Bot. 7 (27): 166, 1863 (Mitten 1863).
- *** *Andrewsianthus carinatus* Grolle, Marion Prince Edw. Is: 229, 1971 (Grolle 1971d).
- *** *Andrewsianthus cavifolius* Grolle et Váňa, J. Hattori Bot. Lab. 38: 640, 1974 (Váňa 1974b).
- *** *Andrewsianthus chimbuensis* R.M.Schust., Nova Hedwigia 15: 491, 1968 (Schuster 1968b).
- *** *Andrewsianthus kinabaluensis* N.Kitag., J. Hattori Bot. Lab. 33: 205, 1970 (Kitagawa 1970).
- *** *Andrewsianthus koponenii* Váňa et Piippo, Ann. Bot. Fenn. 26 (3): 284, 1989 (Váňa and Piippo 1989).
- *** *Andrewsianthus mizutanii* N.Kitag., J. Hattori Bot. Lab. 32: 307, 1969 (Kitagawa 1969a).

- *** *Andrewsianthus papillosus* N.Kitag., J. Hattori Bot. Lab. 33: 207, 1970 (Kitagawa 1970).
- *** *Andrewsianthus perigonalis* (Hook.f. et Taylor) R.M.Schust., Beih. Nova Hedwigia 119: 336, 2002 (Schuster 2002b). Bas.: *Jungermannia perigonalis* Hook.f. et Taylor, London J. Bot. 3: 368, 1844 (Hooker and Taylor 1844a).
- *** *Andrewsianthus puniceus* (Nees) R.M.Schust. ex Grolle, Trans. Brit. Bryol. Soc. 4 (3): 439, 1963 (Grolle 1963a). Bas.: *Jungermannia punicea* Nees, Enum. Pl. Crypt. Javae: 32, 1830 (Nees 1830).
- *** *Andrewsianthus recurvifolius* (Nees) R.M.Schust., Hapat. Anthocerotae N. Amer. 2: 710, 1969 (Schuster 1969b). Bas.: *Jungermannia recurvifolia* Nees, Enum. Pl. Crypt. Javae: 32, 1830 (Nees 1830).
- *** *Andrewsianthus sundaicus* (Schiffn.) R.M.Schust., Hapat. Anthocerotae N. Amer. 2: 710, 1969 (Schuster 1969b). Bas.: *Anastrophyllum sundaicum* Schiffn., Denkschr. Kaiserl. Akad. Wiss., Math.-Naturwiss. Kl. 67: 202, 1898 (Schiffner 1898a).
- *** *Andrewsianthus zantenii* Váňa, J. Hattori Bot. Lab. 38: 645, 1974 (Váňa 1974b).
- ** **subg. *Cephalolobus* (R.M.Schust.) R.M.Schust.**, Beih. Nova Hedwigia 119: 326, 2002 (Schuster 2002b). Bas.: *Cephalolobus* R.M.Schust., Rev. Bryol. Lichénol. 34 (1/2): 244, 1966 (Schuster 1966b).
- *** *Andrewsianthus hodgsoniae* (R.M.Schust.) R.M.Schust. ex J.J.Engel, Novon 17 (3): 311, 2007 (Engel 2007). Bas.: *Cephalolobus hodgsoniae* R.M.Schust., Rev. Bryol. Lichénol. 34 (1/2): 254, 1966 (Schuster 1966b).
- *** *Andrewsianthus marionensis* (S.W.Arnell) Grolle, Marion Prince Edw. Is: 232, 1971 (Grolle 1971d). Bas.: *Lophozia marionensis* S.W.Arnell, Svensk Bot. Tidskr. 47 (3): 421, 1953 (Arnell 1953c).
- *** *Andrewsianthus scabrellus* (C.Massal.) R.M.Schust. ex J.J.Engel, Novon 17 (3): 311, 2007 (Engel 2007). Bas.: *Cephalozia scabrella* C.Massal., Nuovo Giorn. Bot. Ital. 17 (3): 233, 1885 (Massalongo 1885).
- ** *Andrewsianthus sphenoloboides* (R.M.Schust.) R.M.Schust. ex J.J.Engel, Novon 17 (3): 311, 2007 (Engel 2007). Bas.: *Cephalolobus sphenoloboides* R.M.Schust., Rev. Bryol. Lichénol. 34 (1/2): 251, 1966 (Schuster 1966b).
- ** ***Gerhildiella* Grolle**, Rev. Bryol. Lichénol. 34 (1/2): 187, 1966 (Grolle 1966a).
- *** *Gerhildiella rossneriana* Grolle, Rev. Bryol. Lichénol. 34 (1/2): 187, 1966 (Grolle 1966a).
- *** ***Heterogemma* (Jørg.) Konstant. et Vilnet**, Arctoa 18: 67, 2009 [2010] (Konstantinova and Vilnet 2009). Bas.: *Lophozia* sect. *Heterogemma* Jørg., Bergens Mus. Skr. (n.ser.) 16: 146, 1934 (Jørgensen 1934).
- *** *Heterogemma capitata* (Hook.) Konstant. et Vilnet, Arctoa 18: 67, 2009 [2010] (Konstantinova and Vilnet 2009). Bas.: *Jungermannia capitata* Hook., Brit. Jungermann.: tab. 80, 1816 (Hooker 1816a).

- *** *Heterogemma laxa* (Lindb.) Konstant. et Vilnet, *Arctoa* 18: 67, 2009 [2010] (Konstantinova and Vilnet 2009). Bas.: *Jungermannia laxa* Lindb., *Acta Soc. Sci. Fenn.* 10: 529, 1875 (Lindberg 1875).
- *** *Heterogemma patagonica* (Herzog et Grolle) L.Söderstr. et Váňa, *Phytotaxa* 97 (2): 29, 2013 (Söderström et al. 2013c). Bas.: *Lophozia patagonica* Herzog et Grolle, *Rev. Bryol. Lichénol.* 28 (3/4): 343, 1959 [1960] (Grolle 1959a).
- *** ***Lophozia* (Dumort.) Dumort.**, *Recueil Observ. Jungerm.*: 17, 1835 (Dumortier 1835). Bas.: *Jungermannia* sect. *Lophozia* Dumort., *Syll. Jungerm. Europ.*: 53, 1831 (Dumortier 1831).⁴⁹
- *** *Lophozia ascendens* (Warnst.) R.M.Schust., *Bryologist* 55 (3): 180, 1952 (Schuster 1952). Bas.: *Sphenolobus ascendens* Warnst., *Hedwigia* 57 (1/2): 63, 1916 (Warnstorf 1916).
- * *Lophozia austrosibirica* Bakalin, *Ann. Bot. Fenn.* 40 (1): 49, 2003 (Bakalin 2003).
- ** *Lophozia ciliata* Damsh., L.Söderstr. et H.Weibull, *Lindbergia* 25 (1): 3, 2000 (Söderström et al. 2000).
- *** *Lophozia guttulata* (Lindb. et Arnell) A.Evans, *Proc. Wash. Acad. Sci.* 2: 302, 1900 (Evans 1900c). Bas.: *Jungermannia guttulata* Lindb. et Arnell, *Kongl. Svenska Vetensk.-Akad. Handl. (n.ser.)* 23 (5): 51, 1889 (Lindberg and Arnell 1889).
- * *Lophozia jamaicensis* (Nees) Steph., *Bull. Herb. Boissier (sér. 2)* 1 (2): 128 (155), 1901 (Stephani 1901h). Bas.: *Jungermannia jamaicensis* Nees, *Syn. Hepat.* 1: 105, 1844 (Gottsche et al. 1844).⁵⁰
- ** *Lophozia lacerata* N.Kitag., *Hikobia* 3 (3): 172, 1963 (Kitagawa 1963a).
- ** *Lophozia lantratoviae* Bakalin, *Ann. Bot. Fenn.* 40 (1): 47, 2003 (Bakalin 2003).
- ** *Lophozia murmanica* Kaal., *Rep. Second Norweg. Arctic Exped.* 11: 34, 1906 (Bryhn 1906).
- ** *Lophozia pacifica* Bakalin, *Bryologist* 114 (2): 302, 2011 (Bakalin 2011).
- * *Lophozia pallida* (Steph.) Grolle, *J. Jap. Bot.* 39 (6): 174, 1964 (Grolle 1964a). Bas.: *Anastrophyllum pallidum* Steph., *Bull. Herb. Boissier (sér. 2)* 1 (10): 1131 (114), 1901 (Stephani 1901c).⁵¹
- ** *Lophozia savicziae* Schljakov, *Novosti Sist. Nizš. Rast.* 10: 299, 1973 (Shliakov 1973).
- * *Lophozia schusterana* Schljakov, *Novosti Sist. Nizš. Rast.* 12: 320, 1975 (Shliakov 1975).
- *** *Lophozia silvicola* H.Buch, *Beret.* 18 Skand. Naturforskarmøde: 228, 1929 (Buch 1929).
- *** *Lophozia silvicoloides* N.Kitag., *J. Hattori Bot. Lab.* 28: 276, 1965 (Kitagawa 1965).

49 *Lophozia* has many nomenclatural and taxonomic problems. This treatment follows Söderström et al. (2013c).

50 *Lophozia jamaicensis* is probably not a *Lophozia*, but the type specimen is missing in Nees's herbarium (Söderström et al. 2010a).

51 *Lophozia pallida* may be conspecific with *Lophozia guttulata* (Bakalin 2003).

- * *Lophozia subapiculata* R.M.Schust. et Damsh., Meddel. Grønland 199 (1): 104, 1974 (Schuster and Damsholt 1974).⁵²
- ** *Lophozia udarii* S.Srivast., S.C.Srivast. et K.K.Rawat, Nelumbo 55: 130, 2013 (Srivastava et al. 2013).⁵³
- *** *Lophozia ventricosa* (Dicks.) Dumort., Recueil Observ. Jungerm.: 17, 1835 (Dumortier 1835). Bas.: *Jungermannia ventricosa* Dicks., Fasc. Pl. Crypt. Brit. 2: 14, 1790 (Dickson 1790).⁵⁴
- * *Lophozia wenzelii* (Nees) Steph., Bull. Herb. Boissier (sér. 2) 2 (1): 35 (135), 1902 (Stephani 1902c). Bas.: *Jungermannia wenzelii* Nees, Naturgesch. Eur. Leberm. 2: 58, 1836 (Nees 1836).⁵⁵

Excluded from the genus

- * *Lophozia serpens* (Dumort.) Dumort., Recueil Observ. Jungerm.: 17, 1835 (Dumortier 1835). Bas.: *Jungermannia serpens* Dumort., Syll. Jungerm. Europ.: 56, 1831 (Dumortier 1831).⁵⁶
- ** ***Lophozioipsis* Konstant. et Vilnet**, Arctoa 18: 66, 2009 [2010] (Konstantinova and Vilnet 2009).
- *** *Lophozioipsis excisa* (Dicks.) Konstant. et Vilnet, Arctoa 18: 66, 2009 [2010] (Konstantinova and Vilnet 2009). Bas.: *Jungermannia excisa* Dicks., Fasc. Pl. Crypt. Brit. 3: 11, 1793 (Dickson 1793).
- ** *Lophozioipsis excisa* var. *elegans* (R.M.Schust.) Konstant. et Vilnet, Arctoa 18: 66, 2009 [2010] (Konstantinova and Vilnet 2009). Bas.: *Lophozia excisa* var. *elegans* R.M.Schust., Hepat. Anthocerotae N. Amer. 2: 522, 1969 (Schuster 1969b).
- ** *Lophozioipsis excisa* var. *infuscata* (R.M.Schust. et Damsh.) Konstant. et Vilnet, Arctoa 18: 66, 2009 [2010] (Konstantinova and Vilnet 2009). Bas.: *Lophozia excisa* var. *infuscata* R.M.Schust. et Damsh., Meddel. Grønland 199 (1): 94, 1974 (Schuster and Damsholt 1974).
- ** *Lophozioipsis excisa* var. *succulenta* (R.M.Schust. et Damsh.) Konstant. et Vilnet, Arctoa 18: 66, 2009 [2010] (Konstantinova and Vilnet 2009). Bas.: *Lophozia excisa* var.

52 *Lophozia subapiculata* may be a form of *Lophozia guttulata*, but Bakalin (2005) treated it as conspecific with *Lophozia ventricosa*.

53 *Lophozia udarii* has recently been described using the generic concept of *Lophozia* in the wide sense (as e.g. Schuster 1969b). We do not know where to refer the species. It is possibly a *Schistochilopsis* species close to *Schistochilopsis incisa*.

54 *Lophozia ventricosa* is very variable and many segregates at various subspecific levels have been described. The species complex also includes at least *Lophozia austrosibirica*, *Lophozia schusteriana* and *Lophozia wenzelii*.

55 *Lophozia wenzelii* is closely related to *Lophozia ventricosa* according to De Roo et al. (2007) and Vilnet et al. (2010) based on molecular and morphological evidence. It is variable and many varieties are described. The variability and relationships to related species needs further study.

56 *Lophozia serpens* is probably conspecific with *Schistochilopsis incisa*.

- succulenta* R.M.Schust. et Damsh., Meddel. Grønland 199 (1): 96, 1974 (Schuster and Damsholt 1974).
- *** *Lophozia longidens* (Lindb.) Konstant. et Vilnet, Arctoa 18: 66, 2009 [2010] (Konstantinova and Vilnet 2009). Bas.: *Jungermannia longidens* Lindb., Helsingf. Dagbl. 1876 (323, 26 Nov.): 2, 1876 (Lindberg 1876a).
- ** *Lophozia longidens* subsp. *arctica* (R.M.Schust.) Váňa et L.Söderstr., Phytotaxa 97 (2): 28, 2013 (Söderström et al. 2013c). Bas.: *Lophozia longidens* subsp. *arctica* R.M.Schust., Hepat. Anthocerotae N. Amer. 2: 539, 1969 (Schuster 1969b).⁵⁷
- *** *Lophozia pellucida* (R.M.Schust.) Konstant. et Vilnet, Arctoa 18: 67, 2009 [2010] (Konstantinova and Vilnet 2009). Bas.: *Lophozia pellucida* R.M.Schust., Canad. J. Bot. 39 (4): 978, 1961 (Schuster 1961b).
- ** *Lophozia pellucida* var. *minor* (R.M.Schust.) L.Söderstr. et Váňa, Phytotaxa 97 (2): 28, 2013 (Söderström et al. 2013c). Bas.: *Lophozia pellucida* var. *minor* R.M.Schust., Canad. J. Bot. 39 (4): 984, 1961 (Schuster 1961b).
- *** *Lophozia polaris* (R.M.Schust.) Konstant. et Vilnet, Arctoa 18: 67, 2009 [2010] (Konstantinova and Vilnet 2009). Bas.: *Lophozia alpestris* subsp. *polaris* R.M.Schust., Hepat. Anthocerotae N. Amer. 2: 614, 1969 (Schuster 1969b).
- ** *Lophozia polaris* var. *sphagnorum* (R.M.Schust.) Konstant. et Vilnet, Arctoa 18: 67, 2009 [2010] (Konstantinova and Vilnet 2009). Bas.: *Lophozia alpestris* f. *sphagnorum* R.M.Schust., Hepat. Anthocerotae N. Amer. 2: 619, 1969 (Schuster 1969b).
- * *Lophozia propagulifera* (Gottsche) Konstant. et Vilnet, Arctoa 18: 67, 2009 [2010] (Konstantinova and Vilnet 2009). Bas.: *Jungermannia propagulifera* Gottsche, Int. Polarforsch., Deutsch. Exped. 2: 451, 1890 (Gottsche 1890).⁵⁸
- ** *Lophozia rubrigemma* (R.M.Schust.) Konstant. et Vilnet, Arctoa 18: 67, 2009 [2010] (Konstantinova and Vilnet 2009). Bas.: *Lophozia rubrigemma* R.M.Schust., Hepat. Anthocerotae N. Amer. 2: 621, 1969 (Schuster 1969b).
- ** *Pseudocephaloziella* R.M.Schust., Phytologia 39 (4): 243, 1978 (Schuster 1978a).
- *** *Pseudocephaloziella epiphytica* R.M.Schust., Phytologia 39 (4): 243, 1978 (Schuster 1978a).
- *** ***Trilophozia* (R.M.Schust.) Bakalin**, Monogr. Lophozia: 34, 2005 (Bakalin 2005). Bas.: *Tritomaria* subg. *Trilophozia* R.M.Schust., Amer. Midl. Naturalist 49 (2): 382, 1953 (Schuster 1953).
- *** *Trilophozia quinquedentata* (Huds.) Bakalin, Monogr. Lophozia: 34, 2005 (Bakalin 2005). Bas.: *Jungermannia quinquedentata* Huds., Fl. Angl. (Hudson): 433, 1762 (Hudson 1762).

⁵⁷ *Lophozia longidens* var. *arctica* was treated as a form of *Lophozia pellucida* by Bakalin (2005).

⁵⁸ *Lophozia propagulifera* belongs to the *Lophozia excisa* species complex. It is probably only a modification (cf. discussion by Váňa and Engel 2013).

- ** *Tritophozia quinquedentata* var. *asymmetrica* (Horik.) L.Söderstr. et Váňa, *Phytotaxa* 97 (2): 32, 2013 (Söderström et al. 2013c). Bas.: *Lophozia asymmetrica* Horik., *J. Sci. Hiroshima Univ.*, Ser. B, Div. 2, Bot. 2: 153, 1934 (Horikawa 1934).
- *** ***Tritomaria Schiffn. ex Loeske***, *Hedwigia* 49 (1/2): 13, 1909 (Loeske 1909). Based on: *Tritomaria* Schiffn., *Ber. Naturwiss.-Med. Vereins Innsbruck* 31 [Beilage]: 12, 1908 (Schiffner 1908a).
- *** *Tritomaria exsecta* (Schmidel) Schiffn. ex Loeske, *Hedwigia* 49 (1/2): 13, 1909 (Loeske 1909). Bas.: *Jungermannia exsecta* Schmidel, *Syst. Samml. Crypt. Gew.* 2: 5, 1797 (Schrader 1797), *nom. conserv.*
- ** *Tritomaria exsecta* subsp. *novaezealandiae* J.J.Engel, *Bryologist* 109 (1): 61, 2006 (Engel 2006b).
- *** *Tritomaria exsectiformis* (Breidl.) Schiffn. ex Loeske, *Hedwigia* 49 (1/2): 13, 1909 (Loeske 1909). Bas.: *Jungermannia exsectiformis* Breidl., *Mitt. Naturwiss. Vereins Steiermark* 30: 321, 1894 (Breidler 1894).
- ** *Tritomaria exsectiformis* subsp. *arctica* R.M.Schust., *Hepat. Anthocerotae N. Amer.* 2: 661, 1969 (Schuster 1969b).
- ** *Tritomaria exsectiformis* subsp. *camerunensis* S.W.Arnell ex Váňa, *Phytotaxa* 167 (2): 216, 2014 (Váňa et al. 2014b). Based on: *Tritomaria camerunensis* S.W.Arnell, *Svensk Bot. Tidskr.* 52 (1): 64, 1958 (Arnell 1958a), *nom. inval.*
- *** *Tritomaria ferruginea* (Grolle) Váňa, *Phytotaxa* 81 (1): 24, 2013 (Váňa et al. 2013m). Bas.: *Andrewsianthus ferrugineus* Grolle, *Khumbu Himal* 1 (4): 275, 1966 (Grolle 1966k).
- * *Tritomaria koreana* Bakalin, S.S.Choi et B.Y.Sun, *Arctoa* 18: 163, 2009 [2010] (Bakalin et al. 2009a).
- * *Tritomaria mexicana* Bakalin, *Arctoa* 17: 162, 2008 [2009] (Bakalin 2008b).
- *** *Tritomaria scitula* (Taylor) Jørg., *Bergens Mus. Aarbok* 1919/20 (7): 3, 1922 (Jørgensen 1922). Bas.: *Jungermannia scitula* Taylor, *London J. Bot.* 5: 274, 1846 (Taylor 1846a).

*** Scapaniaceae Mig.

by J. Váňa

Scapaniaceae, in its classical concept, was recognized as monophyletic and nested within Lophoziaceae s. lat. (cf. Davis 2004, Schill et al. 2004, Yatsentyuk et al. 2004, He-Nygrén et al. 2006). More recent molecular studies classified Scapaniaceae as a sister clade to Lophoziaceae, and the genus *Schistochilopsis*, a segregate of the genus *Lophozia* s. lat., more closely related to Scapaniaceae than to Lophoziaceae (cf. de Roo et al. 2007, Vilnet et al. 2007). The genus *Scapania* was recently studied by morphological methods by Potemkin (2002), by molecular methods by Vilnet et al. (2007) and especially Heinrichs et al. (2012a). Some taxonomic and nomenclatural notes

can be found in Váňa et al. (2012a, 2013j, 2015) and Konstantinova et al. (2013a). The placement of *Pseudotritomaria*, *Saccobasis* and *Schistochilopsis* in the family follows Vilnet et al. (2010).

*** *Diplophyllum* (Dumort.) Dumort., Recueil Observ. Jungerm.: 15, 1835 (Dumortier 1835) nom. conserv. Bas.: *Jungermannia* sect. *Diplophyllum* Dumort., Syll. Jungerm. Europ.: 44, 1831 (Dumortier 1831).

*** subg. *Austrodiplophyllum* R.M.Schust., Bull. Natl. Sci. Mus. Tokyo (n.ser.) 11 (1): 18, 1968 (Schuster 1968a).

** *Diplophyllum recurvifolium* C.Massal., Atti Reale Ist. Veneto Sci. Lett. Arti 87 (2): 221, 1928 (Massalongo 1928).

*** *Diplophyllum squarrosum* Steph., Sp. Hepat. (Stephani) 4: 116, 1910 (Stephani 1910b).

*** *Diplophyllum verrucosum* R.M.Schust., Bull. Natl. Sci. Mus. Tokyo (n.ser.) 11 (1): 19, 1968 (Schuster 1968a).

*** subg. *Diplophyllum*

*** sect. *Diplophyllum*

*** *Diplophyllum albicans* (L.) Dumort., Recueil Observ. Jungerm.: 16, 1835 (Dumortier 1835). Bas.: *Jungermannia albicans* L., Sp. Pl. 1: 1133, 1753 (Linnaeus 1753).

*** sect. *Protodiplophyllum* (R.M.Schust.) Váňa et L.Söderstr., Phytotaxa 76 (3): 29, 2013 (Váňa et al. 2013j). Bas.: *Diplophyllum* subg. *Protodiplophyllum* R.M.Schust., Hepat. Anthocerotae N. Amer. 3: 192, 1974 (Schuster 1974).

*** *Diplophyllum africanum* S.W.Arnell, Ark. Bot. (n.ser.) 3 (16): 527, 1956 (Arnell 1956e).

*** *Diplophyllum andicola* R.M.Schust., Phytologia 39 (4): 248, 1978 (Schuster 1978a).

*** *Diplophyllum andrewsii* A.Evans, Bryologist 25 (2): 28, 1922 (Evans 1922).

* *Diplophyllum androgynum* J.J.Engel et G.L.Merr., J. Hattori Bot. Lab. 84: 277, 1998 (Engel and Smith Merrill 1998).

* *Diplophyllum angustifolium* J.J.Engel et G.L.Merr., J. Hattori Bot. Lab. 84: 262, 1998 (Engel and Smith Merrill 1998).

*** *Diplophyllum apiculatum* (A.Evans) Steph., Sp. Hepat. (Stephani) 4: 110, 1910 (Stephani 1910b). Bas.: *Diplophylleia apiculata* A.Evans, Bot. Gaz. 34 (5): 372, 1902 (Evans 1902b).

** *Diplophyllum dioicum* R.M.Schust., Bull. Natl. Sci. Mus. Tokyo (n.ser.) 11 (1): 20, 1968 (Schuster 1968a).

** *Diplophyllum exiguum* Steph., Sp. Hepat. (Stephani) 6: 500, 1924 (Stephani 1924).

* *Diplophyllum gemmiparum* J.J.Engel et G.L.Merr., J. Hattori Bot. Lab. 84: 255, 1998 (Engel and Smith Merrill 1998).

- * *Diplophyllum incrassatum* J.J.Engel et G.L.Merr., J. Hattori Bot. Lab. 84: 265, 1998 (Engel and Smith Merrill 1998).
- *** *Diplophyllum nanum* Herzog, Memoranda Soc. Fauna Fl. Fennica 26: 48, 1950 [1951] (Herzog 1950b).
- * *Diplophyllum novum* J.J.Engel et G.L.Merr., J. Hattori Bot. Lab. 84: 274, 1998 (Engel and Smith Merrill 1998).
- *** *Diplophyllum obtusatum* (R.M.Schust.) R.M.Schust., Hepat. Anthocerotae N. Amer. 3: 215, 1974 (Schuster 1974). Bas.: *Diplophyllum apiculatum* var. *obtusatum* R.M.Schust., Amer. Midl. Naturalist 49 (2): 432, 1953 (Schuster 1953).
- *** *Diplophyllum obtusifolium* (Hook.) Dumort., Recueil Observ. Jungerm.: 16, 1835 (Dumortier 1835). Bas.: *Jungermannia obtusifolia* Hook., Brit. Jungermann.: tab. 26, 1812 (Hooker 1812).⁵⁹
- ** *Diplophyllum obtusifolium* subsp. *domesticum* (Gottsche) Váňa, Phytotaxa 76 (3): 29, 2013 (Váňa et al. 2013j). Bas.: *Jungermannia domestica* Gottsche, Linnaea 28 (5): 548, 1856 [1857] (Gottsche 1856).
- *** *Diplophyllum serrulatum* (Müll.Frib.) Steph., Sp. Hepat. (Stephani) 4: 112, 1910 (Stephani 1910b). Bas.: *Diplophylleia serrulata* Müll.Frib., Bull. Herb. Boissier (sér. 2) 3 (1): 34, 1903 (Müller 1903).
- *** *Diplophyllum taxifolium* (Wahlenb.) Dumort., Recueil Observ. Jungerm.: 16, 1835 (Dumortier 1835). Bas.: *Jungermannia taxifolia* Wahlenb., Fl. Lapp. (Wahlenberg): 389, 1812 (Wahlenberg 1812).
- ** *Diplophyllum taxifolium* var. *mucronatum* R.M.Schust., Hepat. Anthocerotae N. Amer. 3: 203, 1974 (Schuster 1974).
- *** *Diplophyllum trollii* Grolle, Khumbu Himal 1 (4): 273, 1966 (Grolle 1966k).
- *** ***Douinia* (C.E.O.Jensen) H.Buch**, Scapan. N.-Eur. Sib.: 13, 1928 (Buch 1928). Bas.: *Diplophylleia* subg. *Douinia* C.E.O.Jensen, Danmarks mosser: 145, 1915 (Jensen 1915).
- *** *Douinia imbricata* (M.Howe) Konstant. et Vilnet, Phytotaxa 76 (3): 31, 2013 (Konstantinova et al. 2013a). Bas.: *Scapania imbricata* M.Howe, Bull. New York Bot. Gard. 2 (6): 104, 1901 (Howe 1901b).
- *** *Douinia ovata* (Dicks.) H.Buch, Scapan. N.-Eur. Sib.: 14, 1928 (Buch 1928). Bas.: *Jungermannia ovata* Dicks., Fasc. Pl. Crypt. Brit. 3: 11, 1793 (Dickson 1793).
- *** *Douinia plicata* (Lindb.) Konstant. et Vilnet, Phytotaxa 76 (3): 31, 2013 (Konstantinova et al. 2013a). Bas.: *Diplophyllum plicatum* Lindb., Acta Soc. Sci. Fenn. 10: 235, 1872 [1873] (Lindberg 1872b).
- ** ***Pseudotritomaria* Konstant. et Vilnet**, Arctoa 18: 66, 2009 [2010] (Konstantinova and Vilnet 2009).

59 *Diplophyllum obtusifolium* is a species complex also including *Diplophyllum androgynum*, *Diplophyllum angustifolium*, *Diplophyllum gemmiparum*, *Diplophyllum incrassatum* and *Diplophyllum novum*.

- *** *Pseudotritomaria heterophylla* (R.M.Schust.) Konstant. et Vilnet, Arctoa 18: 66, 2009 [2010] (Konstantinova and Vilnet 2009). Bas.: *Tritomaria heterophylla* R.M.Schust., Canad. J. Bot. 36 (2): 272, 1958 (Schuster 1958b).
- ** ***Saccobasis* H.Buch**, Memoranda Soc. Fauna Fl. Fennica 8: 291, 1932 [1933] (Buch 1932).
- *** *Saccobasis polita* (Nees) H.Buch, Memoranda Soc. Fauna Fl. Fennica 8: 292, 1932 [1933] (Buch 1932). Bas.: *Jungermannia polita* Nees, Naturgesch. Eur. Leberm. 2: 145, 1836 (Nees 1836).
- ** *Saccobasis polymorpha* (R.M.Schust.) Schljakov, Novosti Sist. Nizš. Rast. 16: 205, 1979 (Shliakov 1979). Bas.: *Tritomaria polita* subsp. *polymorpha* R.M.Schust., Hepat. Anthocerotae N. Amer. 2: 700, 1969 (Schuster 1969b).
- *** ***Scapania* (Dumort.) Dumort.**, Recueil Observ. Jungerm.: 14, 1835 (Dumortier 1835) nom. conserv. Bas.: *Radula* sect. *Scapania* Dumort., Syll. Jungerm. Europ.: 38, 1831 (Dumortier 1831).
- ** **subg. *Ascapania* Grolle**, Khumbu Himal 1 (4): 268, 1966 (Grolle 1966k).
- *** *Scapania contorta* Mitt., J. Proc. Linn. Soc., Bot. 5 (18): 101, 1860 [1861] (Mitten 1860c).
- ** **subg. *Gracilidae* (H.Buch) Váňa, Hentschel, Joch.Müll. et Heinrichs**, Phyto-Keys 10: 15, 2012 (Váňa et al. 2012a). Bas.: *Scapania* sect. *Gracilidae* H.Buch, Scapan. N.-Eur. Sib.: 106, 1928 (Buch 1928).
- *** *Scapania ampliata* Steph., Bull. Herb. Boissier 5 (2): 106, 1897 (Stephani 1897b).
- ** *Scapania ampliata* subsp. *queenslandica* M.L.Hicks, J. Hattori Bot. Lab. 69: 130, 1991 (Hicks 1991).
- *** *Scapania bolanderi* Austin, Proc. Acad. Nat. Sci. Philadelphia 21: 218, 1869 (Austin 1869).
- *** *Scapania gracilis* Lindb., Morgonblad et (Helsinki) 1873 (286, 9 Dec): 2, 1873 (Lindberg 1873a).
- ** *Scapania macroparaphyllia* T.Cao, C.Gao et J.Sun, Acta Phytotax. Sin. 42 (2): 180, 2004 (Cao et al. 2004).
- *** *Scapania maxima* Horik., J. Sci. Hiroshima Univ., Ser. B, Div. 2, Bot. 2: 223, 1934 (Horikawa 1934).
- *** *Scapania nipponica* (Amakawa et S.Hatt.) Amakawa, J. Hattori Bot. Lab. 30: 319, 1967 (Amakawa 1967a). Bas.: *Scapania bolanderi* var. *nipponica* Amakawa et S.Hatt., J. Hattori Bot. Lab. 14: 83, 1955 (Amakawa and Hattori 1955).
- ** *Scapania paraphyllia* T.Cao, C.Gao, J.Sun et B.R.Zuo, Acta Phytotax. Sin. 45 (3): 311, 2007 (Zuo et al. 2007b).
- *** *Scapania subnimbosa* Steph., Sp. Hepat. (Stephani) 4: 150, 1910 (Stephani 1910b).

- ** **subg. *Macroscapania* R.M.Schust.**, *Hepat. Anthocerotae N. Amer.* 3: 248, 1974 (Schuster 1974).
- * *Scapania geppii* Steph., *Hedwigia* 44 (1): 14, 1904 (Stephani 1904i).
- *** *Scapania portoricensis* Hampe et Gottsche, *Linnaea* 25 (3): 342, 1852 [1853] (Hampe and Gottsche 1852).
- ** *Scapania portoricensis* var. *boliviensis* (Steph.) Herzog, *Ann. Bryol.* 1: 110, 1928 (Herzog 1928). Bas.: *Scapania boliviensis* Steph., *Biblioth. Bot.* 87 (2): 231, 1916 (Stephani 1916a).
- ** *Scapania portoricensis* var. *organensis* (Herzog) Herzog, *Ann. Bryol.* 1: 110, 1928 (Herzog 1928). Bas.: *Scapania organensis* Herzog, *Repert. Spec. Nov. Regni Veg.* 21 (1/7): 27, 1925 (Herzog 1925a).
- ** *Scapania portoricensis* var. *roraimensis* Warnst., *Hedwigia* 63 (2): 109, 1921 (Warnstorff 1921).
- ** **subg. *Plicaticalyx* Müll.Frib.**, *Bull. Herb. Boissier (sér. 2)* 3 (1): 36, 1903 (Müller 1903).
- ** **sect. *Planifoliae* (Müll.Frib.) Potemkin**, *J. Hattori Bot. Lab.* 85: 56, 1998 (Potemkin 1998). Bas.: *Scapania* Gruppe *Planifoliae* Müll.Frib., *Nova Acta Acad. Caes. Leop.-Carol. German. Nat. Cur.* 83: 286, 1905 (Müller 1905).
- *** *Scapania davidii* Potemkin, *Ann. Bot. Fenn.* 38 (2): 83, 2001 (Potemkin 2001).
- ** *Scapania ferruginaeoides* T.Cao, C.Gao et J.Sun, *Guihaia* 24 (1): 23, 2004 (Sun et al. 2004).
- ** *Scapania gaochii* X.Fu ex T.Cao, *Phytotaxa* 97 (2): 26, 2013 (Cao et al. 2013). Based on: *Scapania gaochii* X.Fu ex T.Cao, *Acta Bot. Yunnan.* 25 (5): 541, 2003 (Cao et al. 2003), *nom. inval.*
- *** *Scapania harae* Amakawa, *J. Hattori Bot. Lab.* 27: 5, 1964 (Amakawa 1964a).
- *** *Scapania nimbose* Taylor, *Nov. Stirp. Pug.* 8: 6, 1844 (Lehmann 1844).
- *** *Scapania ornithopodioides* (With.) Waddell, *Moss Exch. Club Cat. Hepat.*: 4, 1897 (Waddell 1897). Bas.: *Jungermannia ornithopodioides* With., *Bot. arr. veg. Gr. Brit.* 2: 695, 1776 (Withering 1776).
- *** *Scapania rotundifolia* W.E.Nicholson, *Symb. Sin.* 5: 31, 1930 (Nicholson et al. 1930).
- *** *Scapania secunda* Steph., *Mém. Soc. Nat. Sci. Nat. Math. Cherbourg* 29: 226, 1894 (Stephani 1894b).
- *** *Scapania zhukovae* Potemkin, *Arctoa* 9: 121, 2000 (Potemkin 2000b).
- ** **sect. *Plicaticalyx* (Müll.Frib.) Potemkin**, *Ann. Bot. Fenn.* 39 (4): 326, 2002 (Potemkin 2002). Bas.: *Scapania* subg. *Plicaticalyx* Müll.Frib., *Bull. Herb. Boissier (sér. 2)* 3 (1): 36, 1903 (Müller 1903).
- *** *Scapania ciliatospinosa* Horik., *J. Sci. Hiroshima Univ., Ser. B, Div. 2, Bot.* 2: 222, 1934 (Horikawa 1934).

- *** *Scapania ferruginea* (Lehm. et Lindenb.) Lehm. et Lindenb., Syn. Hepat. 1: 72, 1844 (Gottsche et al. 1844). Bas.: *Jungermannia ferruginea* Lehm. et Lindenb., Nov. Stirp. Pug. 4: 20, 1832 (Lehmann 1832).
- *** *Scapania hians* Steph. ex Müll.Frib., Nova Acta Acad. Caes. Leop.-Carol. German. Nat. Cur. 83: 223, 1905 (Müller 1905).
- ** *Scapania hians* subsp. *salishensis* J.D.Godfrey et G.Godfrey, Bryologist 81 (3): 362, 1978 (Godfrey and Godfrey 1978).
- *** *Scapania orientalis* Steph. ex Müll.Frib., Bull. Herb. Boissier (sér. 2) 1 (6): 606, 1901 (Müller 1901a).
- *** *Scapania pseudocontorta* Potemkin, Arctoa 9: 115, 2000 (Potemkin 2000b).
- *** *Scapania sinikkae* Potemkin, Ann. Bot. Fenn. 38 (2): 85, 2001 (Potemkin 2001).
- *** *Scapania spiniloba* Potemkin, Arctoa 9: 117, 2000 (Potemkin 2000b).
- ** **subg. *Pseudomacrodiplphyllum* Váňa, Hentschel, Joch.Müll. et Heinrichs**, PhytoKeys 10: 15, 2012 (Váňa et al. 2012a).
- *** *Scapania microdonta* (Mitt.) Müll.Frib., Nova Acta Acad. Caes. Leop.-Carol. German. Nat. Cur. 83: 262, 1905 (Müller 1905). Bas.: *Martinellius microdontus* Mitt., Trans. Linn. Soc. London, Bot. 3 (3): 196, 1891 (Mitten 1891).
- *** **subg. *Scapania***
- ** **sect. *Aequilobae* (Müll.Frib.) H.Buch**, Scapan. N.-Eur. Sib.: 110, 1928 (Buch 1928). Bas.: *Scapania* Gruppe *Aequilobae* Müll.Frib., Nova Acta Acad. Caes. Leop.-Carol. German. Nat. Cur. 83: 219, 1905 (Müller 1905).
- *** *Scapania aequiloba* (Schwägr.) Dumort., Recueil Observ. Jungerm.: 14, 1835 (Dumortier 1835). Bas.: *Jungermannia aequiloba* Schwägr., Hist. Musc. Hepat. Prodr.: 24, 1814 (Schwägrichen 1814).
- *** *Scapania aspera* M.Bernet et Bernet, Cat. hép. Suisse: 42, 1888 (Bernet 1888).
- ** **sect. *Americanae* Váňa, Hentschel, Joch.Müll. et Heinrichs**, PhytoKeys 10: 15, 2012 (Váňa et al. 2012a).
- *** *Scapania americana* Müll.Frib., Bull. Herb. Boissier (sér. 2) 3 (1): 44, 1903 (Müller 1903).
- ** **sect. *Apiculatae* H.Buch**, Scapan. N.-Eur. Sib.: 53, 1928 (Buch 1928).
- *** *Scapania apiculata* Spruce, Hep. Pyr. Exsic.: no. 15, 1847 (Spruce 1847).
- *** *Scapania carinthiaca* J.B.Jack ex Lindb., Rev. Bryol. 7 (4): 77, 1880 (Lindberg 1880a).
- *** *Scapania carinthiaca* var. *massalongi* Müll.Frib., Bull. Herb. Boissier (sér. 2) 1 (6): 598, 1901 (Müller 1901a).
- *** *Scapania umbrosa* (Schrad.) Dumort., Recueil Observ. Jungerm.: 14, 1835 (Dumortier 1835). Bas.: *Jungermannia umbrosa* Schrad., Syst. Samml. Crypt. Gew. 2: 5, 1797 (Schradler 1797).

- ** **sect. *Ciliatae* Grolle**, *Khumbu Himal* 1 (4): 272, 1966 (Grolle 1966k).
- *** *Scapania bhutanensis* Amakawa, *Fl. E. Himalaya* 2: 230, 1971 (Hattori 1971a).
- *** *Scapania ciliata* Sande Lac., *Prolus. fl. jap.*: 209, 1867 (Sande Lacoste 1867).
- *** *Scapania ciliata* subsp. *hawaiiica* (Müll.Frib.) Potemkin, *Ann. Bot. Fenn.* 39 (4): 321, 2002 (Potemkin 2002). Bas.: *Scapania hawaiiica* Müll.Frib., *Nova Acta Acad. Caes. Leop.-Carol. German. Nat. Cur.* 83: 160, 1905 (Müller 1905).
- *** *Scapania hirosakiensis* Steph. ex Müll.Frib., *Nova Acta Acad. Caes. Leop.-Carol. German. Nat. Cur.* 83: 120, 1905 (Müller 1905).
- *** *Scapania hollandiae* W.S.Hong, *Bryologist* 83 (1): 56, 1980 (Hong 1980).
- *** *Scapania koponenii* Potemkin, *Ann. Bot. Fenn.* 37 (1): 41, 2000 (Potemkin 2000c).
- *** *Scapania lepida* Mitt., *J. Proc. Linn. Soc., Bot.* 5 (18): 101, 1860 [1861] (Mitten 1860c).
- *** *Scapania sandei* Schiffn. ex Müll.Frib., *Bull. Herb. Boissier (sér. 2)* 1 (6): 612, 1901 (Müller 1901a).
- ** **sect. *Compactae* (Müll.Frib.) H.Buch**, *Scapan. N.-Eur. Sib.*: 101, 1928 (Buch 1928). Bas.: *Scapania* Gruppe *Compactae* Müll.Frib., *Nova Acta Acad. Caes. Leop.-Carol. German. Nat. Cur.* 83: 53, 1905 (Müller 1905).
- *** *Scapania compacta* (Roth) Dumort., *Recueil Observ. Jungerm.*: 14, 1835 (Dumortier 1835). Bas.: *Jungermannia compacta* Roth, *Tent. Fl. Germ.* 3: 375, 1800 (Roth 1800).
- *** *Scapania kaurinii* Ryan, *Bot. Not.* 42: 210, 1889 (Ryan 1889).
- *** *Scapania spitsbergensis* (Lindb.) Müll.Frib., *Bull. Herb. Boissier (sér. 2)* 1 (6): 607, 1901 (Müller 1901a). Bas.: *Martinellius spitsbergensis* Lindb., *Kongl. Svenska Vetensk.-Akad. Handl. (n.ser.)* 23 (5): 31, 1889 (Lindberg and Arnell 1889).
- ** **sect. *Curtae* (Müll.Frib.) H.Buch**, *Scapan. N.-Eur. Sib.*: 55, 1928 (Buch 1928). Bas.: *Scapania* Gruppe *Curtae* Müll.Frib., *Nova Acta Acad. Caes. Leop.-Carol. German. Nat. Cur.* 83: 245, 1905 (Müller 1905).
- *** *Scapania curta* (Mart.) Dumort., *Recueil Observ. Jungerm.*: 14, 1835 (Dumortier 1835). Bas.: *Jungermannia curta* Mart., *Fl. crypt. erlang.*: 148, 1817 (Martius 1817).
- ** *Scapania curta* var. *grandiretis* R.M.Schust., *Hepat. Anthocerotae N. Amer.* 3: 393, 1974 (Schuster 1974).
- ** *Scapania curta* var. *isoloba* R.M.Schust., *Hepat. Anthocerotae N. Amer.* 3: 396, 1974 (Schuster 1974).
- *** *Scapania diplophyloides* Amakawa et S.Hatt., *J. Hattori Bot. Lab.* 9: 59, 1953 (Amakawa and Hattori 1953).
- *** *Scapania esterhuyensiae* S.W.Arnell, *Bot. Not.* 110 (1): 26, 1957 (Arnell 1957a).
- *** *Scapania fulfordiae* W.S.Hong, *Bryologist* 83 (1): 46, 1980 (Hong 1980).
- *** *Scapania gamundiae* R.M.Schust., *Bull. Natl. Sci. Mus. Tokyo (n.ser.)* 11 (1): 14, 1968 (Schuster 1968a).

- *** *Scapania helvetica* Gottsche, Hepat. Eur., Leberm. 42-44: no. 426, 1868 (Gottsche and Rabenhorst 1868).
- *** *Scapania irrigua* (Nees) Nees, Syn. Hepat. 1: 67, 1844 (Gottsche et al. 1844). Bas.: *Jungermannia irrigua* Nees, Naturgesch. Eur. Leberm. 1: 193, 1833 (Nees 1833c).
- ** *Scapania irrigua* subsp. *rufescens* (Loeske) R.M.Schust., Hepat. Anthocerotae N. Amer. 3: 471, 1974 (Schuster 1974). Bas.: *Scapania irrigua* f. *rufescens* Loeske, Moosfl. Harz.: 71, 1903 (Loeske 1903).
- *** *Scapania lingulata* H.Buch, Meddel. Soc. Fauna Fl. Fenn. 42: 92, 1916 (Buch 1916).
- ** *Scapania lingulata* var. *microphylla* (Warnst.) R.M.Schust., Hepat. Anthocerotae N. Amer. 3: 415, 1974 (Schuster 1974). Bas.: *Scapania microphylla* Warnst., Hedwigia 63 (2): 75, 1921 (Warnstorf 1921).
- ** *Scapania magadanica* S.S.Choi, Bakalin et B.Y.Sun, Bot. Pacifica 1: 46, 2012 (Choi et al. 2012).
- *** *Scapania mucronata* H.Buch, Meddel. Soc. Fauna Fl. Fenn. 42: 91, 1916 (Buch 1916).
- *** *Scapania obcordata* (Berggr.) S.W.Arnell, Ark. Bot. (n.ser.) 4 (6): 117, 1959 (Arnell and Mårtensson 1959). Bas.: *Sarcocyphos obcordatus* Berggr., Kongl. Svenska Vetensk.-Akad. Handl. (n.ser.) 13 (7): 96, 1875 (Berggren 1875).
- ** *Scapania parvifolia* Warnst., Hedwigia 63 (2): 78, 1921 (Warnstorf 1921).
- *** *Scapania praetervisa* Meyl., Jahresber. Naturf. Ges. Graubündens (n.f.) 64: 364, 1926 (Meylan 1926).
- *** *Scapania scandica* (Arnell et H.Buch) Macvicar, Stud. handb. Brit. hepat. (ed. 2): 394, 1926 (Macvicar 1926). Bas.: *Martinellius scandicus* Arnell et H.Buch, Bot. Not. 74: 1, 1921 (Arnell and Buch 1921).
- ** *Scapania scandica* var. *argutedentata* H.Buch, Scapan. N.-Eur. Sib.: 75, 1928 (Buch 1928).
- ** *Scapania scandica* var. *dimorpha* R.M.Schust., Hepat. Anthocerotae N. Amer. 3: 453, 1974 (Schuster 1974).
- ** *Scapania scandica* var. *grandiretis* (Schljakov) Schljakov, Pečen. Mchi Sev. SSSR 4: 152, 1981 (Shliakov 1981). Bas.: *Scapania parvifolia* var. *grandiretis* Schljakov, Novosti Sist. Nizš. Rast. 8: 332, 1971 (Shliakov 1971).
- *** *Scapania uliginosa* (Lindenb.) Dumort., Recueil Observ. Jungerm.: 14, 1835 (Dumortier 1835). Bas.: *Jungermannia undulata* var. *uliginosa* Lindenb., Syn. hepat. eur: 58, 1829 (Lindenberg 1829).
- *** *Scapania valdonii* Váňa, Bedn.-Ochyra et Cykowska, Nova Hedwigia 89 (1/2): 126, 2009 (Váňa et al. 2009).
- *** *Scapania zemliae* S.W.Arnell, Svensk Bot. Tidskr. 41: 215, 1947 (Arnell 1947).
- ** **sect. *Cuspiduligerae* H.Buch**, Scapan. N.-Eur. Sib.: 125, 1928 (Buch 1928).
- *** *Scapania cuspiduligera* (Nees) Müll.Frib., Lebermoose 2 (22): 472, 1915 (Müller 1915a). Bas.: *Jungermannia cuspiduligera* Nees, Naturgesch. Eur. Leberm. 1: 180, 1833 (Nees 1833c).
- ** *Scapania cuspiduligera* var. *diplophyllopsis* R.M.Schust., Hepat. Anthocerotae N. Amer. 3: 361, 1974 (Schuster 1974).

- ** **sect. *Grolleoscapania* Potemkin**, Ann. Bot. Fenn. 39 (4): 329, 2002 (Potemkin 2002).
- *** *Scapania karl-muelleri* Grolle, Khumbu Himal 1 (4): 270, 1966 (Grolle 1966k).
- ** **sect. *Hyperboreae* Váňa, Hentschel, Joch.Müll. et Heinrichs**, *PhytoKeys* 10: 16, 2012 (Váňa et al. 2012a).
- *** *Scapania hyperborea* Jørg., Forh. Vidensk.-Selsk. Kristiania 1894 (8): 56, 1894 (Jørgensen 1894).
- *** *Scapania paludicola* Loeske et Müll.Frib., *Lebermoose* 2 (21): 425, 1915 (Müller 1915b).
- ** *Scapania paludicola* var. *viridigemma* R.M.Schust., Bull. Natl. Mus. Canada 122: 20, 1950 [1951] (Schuster 1950).
- *** *Scapania tundrae* (Arnell) H.Buch, *Scapan. N.-Eur. Sib.*: 99, 1928 (Buch 1928). Bas.: *Martinellius tundrae* Arnell, Bot. Not. 74: 289, 1921 (Arnell 1921).
- ** **sect. *Kaalaasia* (H.Buch) Jørg.**, Bergens Mus. Skr. (n.ser.) 16: 210, 1934 (Jørgensen 1934). Bas.: *Scapania* subg. *Kaalaasia* H.Buch, *Scapan. N.-Eur. Sib.*: 47, 1928 (Buch 1928).
- *** *Scapania calcicola* (Arnell et J.Perss.) Ingham, *Naturalist (Hull)* 564: 11, 1904 (Ingham 1904). Bas.: *Martinellius calcicola* Arnell et J.Perss., *Rev. Bryol.* 30 (6): 97, 1903 (Arnell 1903).
- *** *Scapania gymnostomophila* Kaal., Bot. Not. 49: 21, 1896 (Kaalaas 1896).
- *** *Scapania ligulifolia* R.M.Schust., *Hepat. Anthocerotae N. Amer.* 3: 306, 1974 (Schuster 1974).
- *** *Scapania pseudocalcicola* R.M.Schust., *Phytologia* 63 (5): 327, 1987 (Schuster and Damsholt 1987).
- * ***Scapania* sect. *Muelleria* Potemkin**, Ann. Bot. Fenn. 39 (4): 320, 2002 (Potemkin 2002).
- *** *Scapania himalayica* Müll.Frib. ex Herzog, Ann. Bryol. 12: 81, 1939 (Herzog 1939b).
- *** *Scapania schljakovii* Potemkin, Ann. Bot. Fenn. 38 (2): 87, 2001 (Potemkin 2001).
- ** **sect. *Nemorosae* (Müll.Frib.) H.Buch**, *Scapan. N.-Eur. Sib.*: 152, 1928 (Buch 1928). Bas.: *Scapania* Gruppe *Nemorosae* Müll.Frib., *Nova Acta Acad. Caes. Leop.-Carol. German. Nat. Cur.* 83: 155, 1905 (Müller 1905).
- *** *Scapania brevicaulis* Taylor, *London J. Bot.* 5: 272, 1846 (Taylor 1846a).
- *** *Scapania crassiretis* Bryhn, *Rev. Bryol.* 19 (1): 7, 1892 (Bryhn 1892).
- * *Scapania degenii* Schiffn. ex Müll.Frib., *Lebermoose* 2 (22): 497, 1915 (Müller 1915a).⁶⁰
- * *Scapania glaucoviridis* Horik., *J. Sci. Hiroshima Univ., Ser. B, Div. 2, Bot.* 2: 221, 1934 (Horikawa 1934).⁶¹

60 *Scapania degenii* is conspecific with *Scapania brevicaulis* in Potemkin (1998), but recognized by Konstantinova et al. (2009).

61 *Scapania glaucoviridis* was treated as conspecific with *Scapania parvitexta* by Potemkin (2002), but accepted by Zuo et al. (2007a).

- ** *Scapania grossidens* Steph. ex Müll.Frib., Nova Acta Acad. Caes. Leop.-Carol. German. Nat. Cur. 83: 146, 1905 (Müller 1905).
- *** *Scapania hedbergii* S.W.Arnell, Ark. Bot. (n.ser.) 3 (16): 556, 1956 (Arnell 1956e).
- *** *Scapania integerrima* Steph., Sp. Hepat. (Stephani) 4: 148, 1910 (Stephani 1910b).
- *** *Scapania matveyevae* Potemkin, Arctoa 9: 97, 2000 (Potemkin 2000a).
- *** *Scapania nemorea* (L.) Grolle, Rev. Bryol. Lichénol. 32 (3/4): 160, 1963 [1964] (Grolle 1963d). Bas.: *Jungermannia nemorea* L., Syst. Nat., ed. 10., 2: 1337, 1759 (Linnaeus 1759).
- ** *Scapania parvidens* Steph., Hedwigia 44 (1): 15, 1904 (Stephani 1904i).⁶²
- *** *Scapania parvitexta* Steph., Bull. Herb. Boissier 5 (2): 107, 1897 (Stephani 1897b).
- *** *Scapania rigida* Nees, Syn. Hepat. 1: 69, 1844 (Gottsche et al. 1844).
- ** **sect. *Scapania***
- *** *Scapania gigantea* Horik., J. Sci. Hiroshima Univ., Ser. B, Div. 2, Bot. 1: 15, 1931 (Horikawa 1931b).
- ** *Scapania grandiloba* Steph., Sp. Hepat. (Stephani) 6: 502, 1924 (Stephani 1924).
- *** *Scapania komagadakensis* Amakawa, J. Hattori Bot. Lab. 31: 96, 1968 (Amakawa 1968a).
- *** *Scapania obscura* (Arnell et C.E.O.Jensen) Schiffn., Österr. Bot. Z. 58 (10): 377, 1908 (Schiffner 1908b). Bas.: *Martinellius obscurus* Arnell et C.E.O.Jensen, Moose Sarekgeb.: 91, 1907 (Arnell and Jensen 1907).
- ** *Scapania paludosa* (Müll.Frib.) Müll.Frib., Mitt. Bad. Bot. Vereins 4 (182/183): 287, 1902 (Müller 1902). Bas.: *Scapania undulata* var. *paludosa* Müll.Frib., Beih. Bot. Centralbl. 10 (4/5): 220, 1901 (Müller 1901b).
- *** *Scapania rufidula* Warnst., Hedwigia 63 (2): 94, 1921 (Warnstorf 1921).
- *** *Scapania serrulata* R.M.Schust., Hepat. Anthocerotae N. Amer. 3: 539, 1974 (Schuster 1974).
- *** *Scapania subalpina* (Nees ex Lindenb.) Dumort., Recueil Observ. Jungerm.: 14, 1835 (Dumortier 1835). Bas.: *Jungermannia subalpina* Nees ex Lindenb., Syn. hepat. eur: 55, 1829 (Lindenberg 1829).
- ** *Scapania subalpina* var. *haynesiae* Frye et L.Clark, Univ. Wash. Publ. Biol. 6 (4): 638, 1946 (Frye and Clark 1946).
- ** *Scapania subalpina* var. *muddiae* C.D.Bird et W.S.Hong, Bryologist 83 (1): 51, 1980 (Hong 1980).
- *** *Scapania undulata* (L.) Dumort., Recueil Observ. Jungerm.: 14, 1835 (Dumortier 1835). Bas.: *Jungermannia undulata* L., Sp. Pl. 1: 1132, 1753 (Linnaeus 1753).
- ** **sect. *Scapaniella* (H.Buch) Potemkin**, J. Hattori Bot. Lab. 85: 43, 1998 (Potemkin 1998). Bas.: *Scapaniella* H.Buch, Scapan. N.-Eur. Sib.: 33, 1928 (Buch 1928).

62 *Scapania parvidens* was treated as conspecific with *Scapania parvitexta* by Potemkin (2002), but accepted by Zuo et al. (2007a) and Choi et al. (2012).

- *** *Scapania glaucocephala* (Taylor) Austin, Bull. Torrey Bot. Club 6 (16): 85, 1876 (Austin 1876c). Bas.: *Jungermannia glaucocephala* Taylor, London J. Bot. 5: 277, 1846 (Taylor 1846a).
- *** *Scapania glaucocephala* var. *saxicola* (R.M.Schust.) Potemkin, Bryologist 102 (1): 36, 1999 (Potemkin 1999). Bas.: *Scapania saxicola* R.M.Schust., Amer. Midl. Naturalist 49 (2): 448, 1953 (Schuster 1953).
- * *Scapania scapanioides* (C.Massal.) Grolle, Feddes Repert. 87 (3/4): 235, 1976 (Grolle 1976a). Bas.: *Jungermannia scapanioides* C.Massal., Hepaticol. ven.: 64, 1879 (Massalongo 1879).⁶³
- ** **sect. *Simmonsiae* (R.M.Schust.) Váňa, Hentschel, Joch.Müll. et Heinrichs**, *PhytoKeys* 10: 16, 2012 (Váňa et al. 2012a). Bas.: *Scapania* subsect. *Simmonsiae* R.M.Schust., Hepat. Anthocerotae N. Amer. 3: 612, 1974 (Schuster 1974).
- *** *Scapania simmonsii* Bryhn et Kaal., Rep. Second Norweg. Arctic Exped. 11: 51, 1906 (Bryhn 1906).
- ** **sect. *Sphaeriferae* Konstant. et Potemkin**, Ann. Bot. Fenn. 31 (2): 125, 1994 (Konstantinova and Potemkin 1994).
- *** *Scapania sphaerifera* H.Buch et Tuom., Memoranda Soc. Fauna Fl. Fennica 11: 227, 1936 (Buch and Tuomikoski 1936).
- ** **sect. *Stephaniae* Potemkin**, J. Hattori Bot. Lab. 85: 57, 1998 (Potemkin 1998). Based on: *Scapania* sect. *Stephaniae* Amakawa et S.Hatt., J. Hattori Bot. Lab. 12: 94, 1954 (Amakawa and Hattori 1954). *nom. inval.*
- *** *Scapania griffithii* Schiffn., Österr. Bot. Z. 49 (6): 204, 1899 (Schiffner 1899a).
- *** *Scapania javanica* Gottsche, Natuurk. Tijdschr. Ned.-Indië 4: 575, 1853 (Gottsche 1853).
- * *Scapania javanica* var. *scabra* Schiffn., Arch. Hydrobiol., suppl. 21 (3/4): 397, 1955 (Schiffner 1955).
- *** *Scapania ligulata* Steph., Hedwigia 44 (1): 14, 1904 (Stephani 1904i).
- ** *Scapania ligulata* subsp. *stephanii* (Müll.Frib.) Potemkin, Piippo et T.J.Kop., Ann. Bot. Fenn. 41 (6): 423, 2004 (Potemkin et al. 2004). Bas.: *Scapania stephanii* Müll.Frib., Nova Acta Acad. Caes. Leop.-Carol. German. Nat. Cur. 83: 273, 1905 (Müller 1905).
- ** **sect. *Verrucosae* Potemkin**, J. Hattori Bot. Lab. 85: 54, 1998 (Potemkin 1998).
- *** *Scapania udarii* S.C.Srivast. et A.Srivast., J. Indian Bot. Soc. 72: 237, 1993 (Srivastava and Srivastava 1993).
- *** *Scapania verrucosa* Heeg, Rev. Bryol. 20 (5): 81, 1893 (Heeg 1893).
- *** ***Schistochilopsis* (N.Kitag.) Konstant.**, Arctoa 3: 125, 1994 (Konstantinova and Vasil'ev 1994). Bas.: *Lophozia* subg. *Schistochilopsis* N.Kitag., J. Hattori Bot. Lab. 28: 289, 1965 (Kitagawa 1965).

⁶³ *Scapania scapanioides* is possibly conspecific with *Scapania glaucocephala* (Potemkin 2002).

- *** *Schistochilopsis cornuta* (Steph.) Konstant., *Arctoa* 3: 125, 1994 (Konstantinova and Vasil'ev 1994). Bas.: *Schistochila cornuta* Steph., *Sp. Hepat.* (Stephani) 4: 84, 1909 (Stephani 1909d).
- *** *Schistochilopsis grandiretis* (Lindb. ex Kaal.) Konstant., *Arctoa* 3: 125, 1994 (Konstantinova and Vasil'ev 1994). Bas.: *Jungermannia grandiretis* Lindb. ex Kaal., *Nyt Mag. Naturvidensk.* 33 (4/5): 322, 1893 (Kaalaas 1893b).
- ** *Schistochilopsis hyperarctica* Konstant. et L.Söderstr., *Phytotaxa* 162 (4): 240, 2014 (Konstantinova et al. 2014b). Based on: *Lophozia hyperarctica* R.M.Schust., *Canad. J. Bot.* 39 (4): 967, 1961 (Schuster 1961b), *nom. inval.*
- *** *Schistochilopsis incisa* (Schrad.) Konstant., *Arctoa* 3: 125, 1994 (Konstantinova and Vasil'ev 1994). Bas.: *Jungermannia incisa* Schrad., *Syst. Samml. Crypt. Gew.* 2: 5, 1797 (Schrader 1797).
- * *Schistochilopsis nakanishii* (Inoue) Konstant., *Arctoa* 3: 125, 1994 (Konstantinova and Vasil'ev 1994). Bas.: *Lophozia nakanishii* Inoue, *Bull. Natl. Sci. Mus. Tokyo* (n.ser.) 9 (1): 37, 1966 (Inoue 1966a).⁶⁴
- ** *Schistochilopsis opacifolia* (Culm. ex Meyl.) Konstant., *Arctoa* 3: 125, 1994 (Konstantinova and Vasil'ev 1994). Bas.: *Lophozia opacifolia* Culm. ex Meyl., *Beitr. Kryptogamenfl. Schweiz* 6 (4): 174, 1924 (Meylan 1924).⁶⁵
- *** *Schistochilopsis setosa* (Mitt.) Konstant., *Arctoa* 3: 125, 1994 (Konstantinova and Vasil'ev 1994). Bas.: *Jungermannia setosa* Mitt., *J. Proc. Linn. Soc., Bot.* 5 (18): 92, 1860 [1861] (Mitten 1860c).

Jungermanniiineae R.M.Schust. ex Stotler et Crand.-Stotl.

*** Acrobolbaceae E.A.Hodgs.

by L. Briscoe and J.J. Engel

- ** *Enigmella* G.A.M.Scott et K.G.Beckm., *J. Bryol.* 17 (2): 297, 1992 (Beckmann and Scott 1992).
- ** *Enigmella thallina* G.A.M.Scott et K.G.Beckm., *J. Bryol.* 17 (2): 297, 1992 (Beckmann and Scott 1992).

** Acrobolboideae R.M.Schust. ex Briscoe

- *** *Acrobolbus* Nees, *Syn. Hepat.* 1: 5, 1844 (Gottsche et al. 1844).
- ** *Acrobolbus africanus* (Pearson) Briscoe, *Phytotaxa* 202 (1): 59, 2015 (Briscoe et al. 2015). Bas.: *Tylimanthus africanus* Pearson, *Forch. Vidensk.-Selsk. Kristiania* 1887 (9): 14, 1887 (Pearson 1887b).

⁶⁴ *Schistochilopsis nakanishii* is possibly conspecific with *Schistochilopsis incisa*.

⁶⁵ *Schistochilopsis opacifolia* is sometimes treated as a subspecies of *Schistochilopsis incisa* (e.g. Bisang 1991).

- *** *Acrobolbus anisodontus* (Hook.f. et Taylor) Briscoe, *Phytotaxa* 202 (1): 59, 2015 (Briscoe et al. 2015). Bas.: *Jungermannia anisodonta* Hook.f. et Taylor, *London J. Bot.* 4: 79, 1845 (Hooker and Taylor 1845).
- ** *Acrobolbus antillanus* R.M.Schust., *J. Hattori Bot. Lab.* 90: 143, 2001 (Schuster 2001a).
- ** *Acrobolbus azoricus* (Grolle et Perss.) Briscoe, *Phytotaxa* 202 (1): 59, 2015 (Briscoe et al. 2015). Bas.: *Tylimanthus azoricus* Grolle et Perss., *Svensk Bot. Tidskr.* 60 (1): 169, 1966 (Grolle and Persson 1966).
- *** *Acrobolbus caducifolius* R.M.Schust., *J. Hattori Bot. Lab.* 90: 154, 2001 (Schuster 2001a).
- *** *Acrobolbus ciliatus* (Mitt.) Schiffn., *Hepat. (Engl.-Prantl)*: 86, 1893 (Schiffner 1893b). Bas.: *Gymnanthe ciliata* Mitt., *J. Proc. Linn. Soc., Bot.* 5 (18): 100, 1860 [1861] (Mitten 1860c).
- *** *Acrobolbus cinerascens* (Lehm. et Lindenb.) Bastow, *Pap. & Proc. Roy. Soc. Tasmania* 1887: 242, 1888 (Bastow 1888). Bas.: *Jungermannia cinerascens* Lehm. et Lindenb., *Nov. Stirp. Pug.* 4: 46, 1832 (Lehmann 1832).
- *** *Acrobolbus concinnus* (Mitt.) Steph., *Trans. & Proc. New Zealand Inst.* 24: 399, 1892 (Colenso 1892). Bas.: *Gymnanthe concinna* Mitt., *Bot. antarct. voy. III (Fl. Tasman. 2)*: 230, 1860 (Mitten 1860b).
- ** *Acrobolbus cuneifolius* (Steph.) Briscoe, *Phytotaxa* 202 (1): 59, 2015 (Briscoe et al. 2015). Bas.: *Tylimanthus cuneifolius* Steph., *Bull. Herb. Boissier (sér. 2)* 5 (12): 1138 (10), 1905 (Stephani 1905b).
- *** *Acrobolbus diversifolius* R.M.Schust., *J. Hattori Bot. Lab.* 90: 150, 2001 (Schuster 2001a).
- *** *Acrobolbus epiphytus* (Colenso) Briscoe, *Phytotaxa* 202 (1): 59, 2015 (Briscoe et al. 2015). Bas.: *Marsupidium epiphytum* Colenso, *Trans. & Proc. New Zealand Inst.* 21: 64, 1889 (Colenso 1889).
- *** *Acrobolbus flavicans* (J.J.Engel et Grolle) Briscoe et J.J.Engel, *Phytotaxa* 202 (1): 59, 2015 (Briscoe et al. 2015). Bas.: *Marsupidium flavicans* J.J.Engel et Grolle, *J. Hattori Bot. Lab.* 34: 438, 1971 (Engel and Grolle 1971).
- *** *Acrobolbus gradsteinii* (Grolle) Briscoe, *Phytotaxa* 202 (1): 59, 2015 (Briscoe et al. 2015). Bas.: *Marsupidium gradsteinii* Grolle, *J. Hattori Bot. Lab.* 66: 337, 1989 (Grolle 1989a).
- ** *Acrobolbus integrifolius* (A.Evans) Briscoe, *Phytotaxa* 202 (1): 59, 2015 (Briscoe et al. 2015). Bas.: *Tylimanthus integrifolius* A.Evans, *Trans. Connecticut Acad. Arts* 8 (15): 259, 1891 (Evans 1891).
- *** *Acrobolbus knightii* (Mitt.) Briscoe, *Phytotaxa* 202 (1): 59, 2015 (Briscoe et al. 2015). Bas.: *Marsupidium knightii* Mitt., *Handb. N. Zeal. fl.* 2: 753, 1867 (Hooker 1867).
- ** *Acrobolbus kunkelii* (Hässel et Solari) Briscoe et J.J.Engel, *Phytotaxa* 202 (1): 60, 2015 (Briscoe et al. 2015). Bas.: *Tylimanthus kunkelii* Hässel et Solari, *Darwiniana* 17: 574, 1972 (Hässel and Solari 1972).
- *** *Acrobolbus laxis* (Lehm. et Lindenb.) Briscoe, *Phytotaxa* 202 (1): 60, 2015 (Briscoe et al. 2015). Bas.: *Plagiochila laxa* Lehm. et Lindenb., *Sp. Hepat. (Lindenberg)* 2-4: 68, 1840 (Lindenberg 1840).

- *** *Acrobolbus limbatus* (Steph.) Briscoe et J.J.Engel, Phytotaxa 202 (1): 60, 2015 (Briscoe et al. 2015). Bas.: *Tylimanthus limbatus* Steph., Kungl. Svenska Vetensk.-Akad. Handl. (n.ser.) 46 (9): 25, 1911 (Stephani 1911b).
- *** *Acrobolbus lophocoleoides* (Mitt.) Mitt., Handb. N. Zeal. fl. 2: 753, 1867 (Hooker 1867). Bas.: *Gymnanthe lophocoleoides* Mitt., Bot. antarct. voy. II (Fl. Nov.-Zel. 2): 144, 1854 (Mitten 1854).
- ** *Acrobolbus madeirensis* (Grolle et Perss.) Briscoe, Phytotaxa 202 (1): 60, 2015 (Briscoe et al. 2015). Bas.: *Tylimanthus madeirensis* Grolle et Perss., Svensk Bot. Tidskr. 60 (1): 166, 1966 (Grolle and Persson 1966).
- ** *Acrobolbus mittenii* Steph., Bull. Herb. Boissier (sér. 2) 2 (5): 460 (179), 1902 (Stephani 1902f).
- *** *Acrobolbus ochrophyllus* (Hook.f. et Taylor) R.M.Schust., Rev. Bryol. Lichénol. 30 (1/2): 64, 1961 (Schuster 1961a). Bas.: *Jungermannia ochrophylla* Hook.f. et Taylor, London J. Bot. 3: 368, 1844 (Hooker and Taylor 1844a).
- *** *Acrobolbus papillosum* (J.J.Engel et Glenn) Briscoe, Phytotaxa 202 (1): 60, 2015 (Briscoe et al. 2015). Bas.: *Marsupidium papillosum* J.J.Engel et Glenn, Nova Hedwigia 87 (3/4): 289, 2008 (Engel and Glenn 2008c).
- *** *Acrobolbus perpusillus* (Colenso) Briscoe, Phytotaxa 202 (1): 60, 2015 (Briscoe et al. 2015). Bas.: *Tylimanthus perpusillus* Colenso, Trans. & Proc. New Zealand Inst. 19: 286, 1887 (Colenso 1887).
- *** *Acrobolbus perpusillus* var. *denticulatus* (J.J.Engel et Glenn) Briscoe, Phytotaxa 202 (1): 60, 2015 (Briscoe et al. 2015). Bas.: *Marsupidium perpusillum* var. *denticulatum* J.J.Engel et Glenn, Nova Hedwigia 87 (3/4): 284, 2008 (Engel and Glenn 2008c).
- *** *Acrobolbus plagiociloides* (J.J.Engel et Glenn) Briscoe, Phytotaxa 202 (1): 60, 2015 (Briscoe et al. 2015). Bas.: *Marsupidium plagiociloides* J.J.Engel et Glenn, Nova Hedwigia 87 (3/4): 284, 2008 (Engel and Glenn 2008c).
- *** *Acrobolbus pseudosaccatus* (Grolle) Briscoe, Phytotaxa 202 (1): 60, 2015 (Briscoe et al. 2015). Bas.: *Tylimanthus pseudosaccatus* Grolle, Nova Hedwigia 6 (3/4): 391, 1963 (Grolle 1963c).
- *** *Acrobolbus renifolius* (Hässel et Solari) Briscoe et J.J.Engel, Phytotaxa 202 (1): 60, 2015 (Briscoe et al. 2015). Bas.: *Tylimanthus renifolius* Hässel et Solari, Darwiniana 17: 583, 1972 (Hässel and Solari 1972).
- ** *Acrobolbus ruwenzorensis* (S.W.Arnell) Briscoe, Phytotaxa 202 (1): 60, 2015 (Briscoe et al. 2015). Bas.: *Tylimanthus ruwenzorensis* S.W.Arnell, Ark. Bot. (n.ser.) 3 (16): 560, 1956 (Arnell 1956e).
- *** *Acrobolbus saccatus* (Hook.) Trevis., Mem. Reale Ist. Lombardo Sci. (Ser. 3), C. Sci. Mat. 4 (13): 423, 1877 (Trevisan 1877). Bas.: *Jungermannia saccata* Hook., Musci Exot. 1: tab. 16, 1818 (Hooker 1818).
- *** *Acrobolbus setulosus* (Mitt.) Briscoe, Phytotaxa 202 (1): 60, 2015 (Briscoe et al. 2015). Bas.: *Gymnanthe setulosa* Mitt., Bot. antarct. voy. II (Fl. Nov.-Zel. 2): 144, 1854 (Mitten 1854).
- *** *Acrobolbus spinifolius* R.M.Schust., J. Hattori Bot. Lab. 90: 137, 2001 (Schuster 2001a).

- *** *Acrobolbus sumatranus* (Schiffn.) Briscoe, *Phytotaxa* 202 (1): 61, 2015 (Briscoe et al. 2015). Bas.: *Lophozia sumatrana* Schiffn., *Denkschr. Kaiserl. Akad. Wiss., Math.-Naturwiss. Kl.* 67: 203, 1898 (Schiffner 1898a).
- *** *Acrobolbus surculosus* (Nees) Trevis., *Mem. Reale Ist. Lombardo Sci. (Ser. 3), C. Sci. Mat.* 4 (13): 423, 1877 (Trevisan 1877). Bas.: *Scapania surculosa* Nees, *Syn. Hepat.* 1: 62, 1844 (Gottsche et al. 1844).
- *** *Acrobolbus tenellus* (Taylor) Trevis., *Mem. Reale Ist. Lombardo Sci. (Ser. 3), C. Sci. Mat.* 4 (13): 423, 1877 (Trevisan 1877). Bas.: *Gymnanthe tenella* Taylor, *Nov. Stirp. Pug.* 8: 1, 1844 (Lehmann 1844).
- *** *Acrobolbus tenellus* var. *diversifolius* (E.A.Hodgs.) Briscoe, *Phytotaxa* 202 (1): 61, 2015 (Briscoe et al. 2015). Bas.: *Tylimanthus diversifolius* E.A.Hodgs., *Trans. Roy. Soc. New Zealand* 85 (4): 575, 1958 (Hodgson 1958).
- *** *Acrobolbus urvilleanus* (Mont.) Trevis., *Mem. Reale Ist. Lombardo Sci. (Ser. 3), C. Sci. Mat.* 4 (13): 423, 1877 (Trevisan 1877). Bas.: *Plagiochila urvilleana* Mont., *Ann. Sci. Nat. Bot. (sér. 2)* 19: 247, 1843 (Montagne 1843).
- *** *Acrobolbus viridis* (Mitt.) Briscoe et J.J.Engel, *Phytotaxa* 202 (1): 61, 2015 (Briscoe et al. 2015). Bas.: *Tylimanthus viridis* Mitt., *J. Linn. Soc., Bot.* 15 (84): 197, 1876 (Mitten 1876b).
- *** *Acrobolbus wilsonii* Nees, *Syn. Hepat.* 1: 5, 1844 (Gottsche et al. 1844).
- ** *Acrobolbus wilsonii* var. *andinus* Spruce, *Trans. & Proc. Bot. Soc. Edinburgh* 15: 522, 1885 (Spruce 1885).

Excluded from the genus

- * *Acrobolbus bispinosus* (J.B.Jack et Steph.) Steph., *Bull. Herb. Boissier (sér. 2)* 2 (5): 459 (178), 1902 (Stephani 1902f). Bas.: *Tylimanthus bispinosus* J.B.Jack et Steph., *Hedwigia* 31 (1): 26, 1892 (Jack and Stephani 1892).⁶⁶
- ※ **Austrolophozioideae** R.M.Schust. ex Crand.-Stotl., Váňa et Stotler
- ** ***Austrolophozia* R.M.Schust.**, *J. Hattori Bot. Lab.* 26: 282, 1963 (Schuster 1963b).
- ** *Austrolophozia andina* R.M.Schust., *Nova Hedwigia* 15: 495, 1968 (Schuster 1968b).
- *** *Austrolophozia camensis* (Steph.) Grolle ex Hässel et Solari, *Revista Mus. Argent. Ci. Nat., Bernardino Rivadavia Inst. Nac. Invest. Ci. Nat. Bot.* 3 (6): 240, 1970 (Hässel and Solari 1970). Bas.: *Tylimanthus camensis* Steph., *Kungl. Svenska Vetensk.-Akad. Handl. (n.ser.)* 46 (9): 24, 1911 (Stephani 1911b).
- *** *Austrolophozia paradoxa* R.M.Schust., *J. Hattori Bot. Lab.* 26: 282, 1963 (Schuster 1963b).

⁶⁶ *Acrobolbus bispinosus* is a *Plagiochila* species (Burghardt and Gradstein 2008).

- *** ***Goebelobryum Grolle***, J. Hattori Bot. Lab. 25: 135, 1962 (Grolle 1962b).
- *** *Goebelobryum grossitextum* (Steph.) Grolle, J. Hattori Bot. Lab. 25: 137, 1962 (Grolle 1962b). Bas.: *Marsupidium grossitextum* Steph., Sp. Hepat. (Stephani) 6: 446, 1924 (Stephani 1924).
- *** *Goebelobryum unguiculatum* (Hook.f. et Taylor) Grolle, J. Hattori Bot. Lab. 25: 137, 1962 (Grolle 1962b). Bas.: *Jungermannia unguiculata* Hook.f. et Taylor, London J. Bot. 5: 279, 1846 (Taylor 1846a).
- *** *Goebelobryum vermiculare* J.J.Engel et Glenný, Nova Hedwigia 95 (3/4): 320, 2012 (Engel and Glenný 2012).

*: Lethocoleoideae Grolle

- *** ***Lethocolea Mitt.***, Handb. N. Zeal. fl. 2: 751, 1867 (Hooker 1867) nom. conserv.
- ** *Lethocolea congesta* (Lehm.) S.W.Arnell, Bot. Not. 108: 311, 1955 (Arnell 1955b). Bas.: *Jungermannia congesta* Lehm., Linnaea 4: 365, 1829 (Lehmann 1829).
- *** *Lethocolea glossophylla* (Spruce) Grolle, Bot. Mag. (Tokyo) 78 (921): 83, 1965 (Grolle 1965c). Bas.: *Symphyomitra glossophylla* Spruce, Trans. & Proc. Bot. Soc. Edinburgh 15: 503, 1885 (Spruce 1885).
- ** *Lethocolea indica* G.Asthana et Maurya, Natl. Acad. Sci. Lett. 37 (6): 535, 2014 (Asthana and Maurya 2014).
- *** *Lethocolea javanica* (Schiffn.) Grolle, Bot. Mag. (Tokyo) 78 (921): 83, 1965 (Grolle 1965c). Bas.: *Symphyomitra javanica* Schiffn., Denkschr. Kaiserl. Akad. Wiss., Math.-Naturwiss. Kl. 67: 193, 1898 (Schiffner 1898a).
- ** *Lethocolea naruto-toganensis* Furuki, Bryologist 104 (2): 306, 2001 (Furuki 2001).
- *** *Lethocolea pansa* (Taylor) G.A.M.Scott et K.G.Beckm., Symp. Biol. Hung. 35: 212, 1987 (Scott and Beckmann 1987). Bas.: *Jungermannia pansa* Taylor, London J. Bot. 5: 275, 1846 (Taylor 1846a).
- *** *Lethocolea radicata* (Lehm. et Lindenb.) Grolle, Bot. Mag. (Tokyo) 78 (921): 83, 1965 (Grolle 1965c). Bas.: *Jungermannia radicata* Lehm. et Lindenb., Nov. Stirp. Pug. 6: 35, 1834 (Lehmann 1834).
- * *Lethocolea repens* S.Winkl., Mitt. Inst. Colombo-Alemán Invest. Ci. 3: 67, 1969 (Winkler 1969).

*: Saccogynidioideae Crand.-Stotl., Vána et Stotler

- *** ***Saccogynidium Grolle***, J. Hattori Bot. Lab. 23: 43, 1960 [1961] (Grolle 1960d).
- ** **sect. *Decurvum* Grolle**, J. Hattori Bot. Lab. 23: 59, 1960 (Grolle 1960d).
- *** *Saccogynidium decurvum* (Mitt.) Grolle, J. Hattori Bot. Lab. 23: 59, 1960 [1961] (Grolle 1960d). Bas.: *Lophocolea decurva* Mitt., Bot. antarct. voy. III (Fl. Tasman. 2): 227, 1860 (Mitten 1860b).

- ** **sect. *Jugata* Grolle**, J. Hattori Bot. Lab. 23: 55, 1960 (Grolle 1960d).
- ** *Saccogynidium rigidulum* (Nees) Grolle, J. Hattori Bot. Lab. 23: 52, 1960 [1961] (Grolle 1960d). Bas.: *Jungermannia rigidula* Nees, Enum. Pl. Crypt. Javae: 25, 1830 (Nees 1830).
- ** **sect. *Saccogynidium***
- *** *Saccogynidium australe* (Mitt.) Grolle, J. Hattori Bot. Lab. 23: 49, 1960 [1961] (Grolle 1960d). Bas.: *Saccogyna australis* Mitt., Bot. antarct. voy. II (Fl. Nov.-Zel. 2): 145, 1854 (Mitten 1854).
- ** *Saccogynidium caldense* (Ångstr.) Grolle, J. Hattori Bot. Lab. 23: 44, 1960 [1961] (Grolle 1960d). Bas.: *Chiloscyphus caldensis* Ångstr., Öfvers. Kongl. Vetensk.-Akad. Förh. 33 (7): 80, 1876 [1877] (Ångström 1876).
- ** *Saccogynidium goebelii* (Herzog) Grolle, J. Hattori Bot. Lab. 23: 52, 1960 [1961] (Grolle 1960d). Bas.: *Leioscyphus goebelii* Herzog, Ann. Bryol. 5: 89, 1932 (Herzog 1932a).
- ** *Saccogynidium muricellum* (De Not.) Grolle, J. Hattori Bot. Lab. 36: 80, 1972 [1973] (Grolle and Schultze-Motel 1972). Bas.: *Chiloscyphus muricellus* De Not., Epat. Borneo: 24, 1874 (De Notaris 1874).
- *** *Saccogynidium vasculosum* (Hook.f. et Taylor) Grolle, J. Hattori Bot. Lab. 23: 46, 1960 [1961] (Grolle 1960d). Bas.: *Jungermannia vasculosa* Hook.f. et Taylor, London J. Bot. 3: 461, 1844 (Hooker and Taylor 1844b).

Incertae sedis

- ** *Saccogynidium chiloscyphoides* R.M.Schust., J. Hattori Bot. Lab. 26: 272, 1963 (Schuster 1963b).
- ** *Saccogynidium irregularospinum* C.Gao, T.Cao et M.J.Lai, Bryologist 104 (1): 129, 2001 (Gao et al. 2001).

*** **Antheliaceae** R.M.Schust.

- *** ***Anthelia* (Dumort.) Dumort.**, Recueil Observ. Jungerm.: 18, 1835 (Dumortier 1835). Bas.: *Jungermannia* sect. *Anthelia* Dumort., Syll. Jungerm. Europ.: 63, 1831 (Dumortier 1831).
- *** *Anthelia julacea* (L.) Dumort., Recueil Observ. Jungerm.: 18, 1835 (Dumortier 1835). Bas.: *Jungermannia julacea* L., Sp. Pl., ed. 2: 1601, 1763 (Linnaeus 1763).
- ** *Anthelia juratzkana* (Limpr.) Trevis., Mem. Reale Ist. Lombardo Sci. (Ser. 3), C. Sci. Mat. 4 (13): 416, 1877 (Trevisan 1877). Bas.: *Jungermannia juratzkana* Limpr., Hedwigia 15 (2): 18, 1876 (Limpricht 1876).

*** **Arnelliaceae Nakai**

Crandall-Stotler et al. (2009) placed *Stephaniella* and *Stephaniellidium* in Arnelliaceae following de Roo et al. (2007). However, Váňa et al. (2012e) argued based on further molecular evidence that Arnelliaceae should be retained as a monotypic family with a single species.

*** ***Arnellia* Lindb.**, Kongl. Svenska Vetensk.-Akad. Handl. (n.ser.) 23 (5): 35, 1889 (Lindberg and Arnell 1889).

*** ***Arnellia fennica* (Gottsche) Lindb.**, Kongl. Svenska Vetensk.-Akad. Handl. (n.ser.) 23 (5): 35, 1889 (Lindberg and Arnell 1889). Bas.: *Jungermannia fennica* Gottsche, Hepat. Eur., Leberm. 42-44: no. 418, 1868 (Gottsche and Rabenhorst 1868).

*** **Balantiopsidaceae H.Buch**

by J.J. Engel with contribution by J. Váňa (*Neesioscyphus*)

The placement of *Pseudoisotachis* in Balantiopsidaceae is only preliminary (cf. Váňa 2013).

*** ***Acroscyphella* N.Kitag. et Grolle**, Acta Phytotax. Geobot. 36 (1/3): 58, 1985 (Kitagawa and Grolle 1985). *Nom. nov. pro Acroscyphus* N.Kitag., Acta Phytotax. Geobot. 35 (1/3): 1, 1984 (Kitagawa 1984).

*** ***Acroscyphella iwatsukii* (N.Kitag.) N.Kitag. et Grolle**, Acta Phytotax. Geobot. 36 (1/3): 58, 1985 (Kitagawa and Grolle 1985). Bas.: *Acroscyphus iwatsukii* N.Kitag., Acta Phytotax. Geobot. 35 (1/3): 3, 1984 (Kitagawa 1984).

*** ***Acroscyphella phoenicorbiza* (Grolle) N.Kitag. et Grolle**, Acta Phytotax. Geobot. 36 (1/3): 58, 1985 (Kitagawa and Grolle 1985). Bas.: *Neesioscyphus phoenicorbizus* Grolle, Österr. Bot. Z. 111 (1): 27, 1964 (Grolle 1964e).

*** ***Acroscyphella tjiwideiensis* (Sande Lac.) N.Kitag. et Grolle**, Acta Phytotax. Geobot. 36 (1/3): 58, 1985 (Kitagawa and Grolle 1985). Bas.: *Chiloscyphus tjiwideiensis* Sande Lac., Ned. Kruidk. Arch. 3: 418, 1854 [1855] (Sande Lacoste 1854).

** ***Pseudoisotachis* Váňa**, Polish Bot. J. 58 (1): 55, 2013 (Váňa 2013).

** ***Pseudoisotachis pocsii* Váňa**, Polish Bot. J. 58 (1): 55, 2013 (Váňa 2013).

*** **Balantiopsidoideae J.J.Engel et Váňa**

*** ***Balantiopsis* Mitt.**, Handb. N. Zeal. fl. 2: 751, 1867 (Hooker 1867).

*** ***Balantiopsis asymmetrica* (Herzog) J.J.Engel**, Nova Hedwigia 16: 93, 1968 (Engel 1968). Bas.: *Balantiopsis latifolia* var. *asymmetrica* Herzog, Rev. Bryol. Lichénol. 23 (1/2): 53, 1954 (Herzog 1954).

- *** *Balantiopsis bisbifida* (Steph.) Steph., Sp. Hepat. (Stephani) 4: 101, 1910 (Stephani 1910b). Bas.: *Isotachis bisbifida* Steph., Bih. Kongl. Svenska Vetensk.-Akad. Handl. 26 (III, 17): 24, 1901 (Stephani 1901b).
- *** *Balantiopsis brasiliensis* Steph., Sp. Hepat. (Stephani) 4: 104, 1910 (Stephani 1910b).
- *** *Balantiopsis cancellata* (Nees) Steph., Sp. Hepat. (Stephani) 4: 103, 1910 (Stephani 1910b). Bas.: *Ptilidium cancellatum* Nees, Syn. Hepat. 2: 251, 1845 (Gottsche et al. 1845a).
- *** *Balantiopsis ciliaris* S.Hatt., J. Jap. Bot. 41 (5): 129, 1966 (Hattori 1966b).
- ** *Balantiopsis ciliaris* subsp. *novoguineensis* S.Hatt., J. Jap. Bot. 41 (5): 131, 1966 (Hattori 1966b).
- *** *Balantiopsis convexiuscula* Berggr., New Zealand Hepat.: 44, 1898 (Berggren 1898).
- *** *Balantiopsis crocea* Herzog, Beih. Bot. Centralbl. 60B (1/2): 12, 1939 (Herzog 1939c).
- *** *Balantiopsis diplophylla* (Hook.f. et Taylor) Mitt., Handb. N. Zeal. fl. 2: 753, 1867 (Hooker 1867). Bas.: *Jungermannia diplophylla* Hook.f. et Taylor, London J. Bot. 3: 377, 1844 (Hooker and Taylor 1844a).
- ** *Balantiopsis diplophylla* var. *hockenii* (Berggr.) J.J.Engel et G.L.Merr., Fieldiana, Bot. (n.ser.) 37: 11, 1997 (Engel and Smith Merrill 1997). Bas.: *Balantiopsis hockenii* Berggr., New Zealand Hepat.: 46, 1898 (Berggren 1898).
- *** *Balantiopsis erinacea* (Hook.f. et Taylor) Mitt., Handb. N. Zeal. fl. 2: 753, 1867 (Hooker 1867). Bas.: *Jungermannia erinacea* Hook.f. et Taylor, London J. Bot. 3: 462, 1844 (Hooker and Taylor 1844b).
- *** *Balantiopsis lingulata* R.M.Schust., Bull. Natl. Sci. Mus. Tokyo (n.ser.) 11 (1): 26, 1968 (Schuster 1968a).
- *** *Balantiopsis montana* (Colenso) J.J.Engel et G.L.Merr., Fieldiana, Bot. (n.ser.) 37: 12, 1997 (Engel and Smith Merrill 1997). Bas.: *Chiloscyphus montanus* Colenso, Trans. & Proc. New Zealand Inst. 21: 62, 1889 (Colenso 1889).
- ** *Balantiopsis neocaledonica* Pearson, J. Linn. Soc., Bot. 46 (305): 28, 1922 (Pearson 1922b).
- ** *Balantiopsis paucidens* Steph., Bih. Kongl. Svenska Vetensk.-Akad. Handl. 26 (III, 17): 29, 1901 (Stephani 1901b).
- *** *Balantiopsis purpurata* Mitt., Rep. Challenger, Bot. 1 (3, 1): 86, 1884 (Mitten 1884b).
- *** *Balantiopsis rosea* Berggr., New Zealand Hepat.: 43, 1898 (Berggren 1898).
- *** *Balantiopsis splendens* (Steph.) J.J.Engel et G.L.Merr., Fieldiana, Bot. (n.ser.) 37: 55, 1997 (Engel and Smith Merrill 1997). Bas.: *Isotachis splendens* Steph., Hedwigia 34 (2): 49, 1895 (Stephani 1895c).
- *** *Balantiopsis tumida* Berggr., New Zealand Hepat.: 45, 1898 (Berggren 1898).
- *** *Balantiopsis verrucosa* J.J.Engel et G.L.Merr., Fieldiana, Bot. (n.ser.) 37: 16, 1997 (Engel and Smith Merrill 1997).

*** Isotachidoideae Grolle

- *** *Isotachis* Mitt., Bot. antarct. voy. II (Fl. Nov.-Zel. 2): 148, 1854 (Mitten 1854).
- *** *Isotachis armata* (Nees) Gottsche, Ann. Sci. Nat. Bot. (sér. 5) 1: 121, 1864 (Gottsche 1864). Bas.: *Jungermannia armata* Nees, Syn. Hepat. 1: 129, 1844 (Gottsche et al. 1844).
- *** *Isotachis aubertii* (Schwägr.) Mitt., J. Linn. Soc., Bot. 22 (146): 322, 1886 (Mitten 1886b). Bas.: *Jungermannia aubertii* Schwägr., Hist. Musc. Hepat. Prodr.: 19, 1814 (Schwägrichen 1814).
- * *Isotachis boliviensis* Gottsche, Sp. Hepat. (Stephani) 3: 670, 1909 (Stephani 1909a).
- ** *Isotachis chinensis* C.Gao, T.Cao et J.Sun, Bryologist 105 (4): 694, 2002 [2003] (Gao et al. 2002).
- ** *Isotachis erythrorhiza* (Lehm. et Lindenb.) Spruce, Trans. & Proc. Bot. Soc. Edinburgh 15: 338, 1885 (Spruce 1885). Bas.: *Jungermannia erythrorhiza* Lehm. et Lindenb., Nov. Stirp. Pug. 4: 44, 1832 (Lehmann 1832).
- *** *Isotachis fragilis* Steph., Kungl. Svenska Vetensk.-Akad. Handl. (n.ser.) 46 (9): 67, 1911 (Stephani 1911b).
- ** *Isotachis grandis* Carrington et Pearson, Proc. Linn. Soc. New South Wales (ser. 2) 2 (4): 1041, 1888 (Carrington and Pearson 1888a).
- *** *Isotachis grossidens* Steph., Kungl. Svenska Vetensk.-Akad. Handl. (n.ser.) 46 (9): 69, 1911 (Stephani 1911b).
- ** *Isotachis hastatistipula* (Steph.) J.J.Engel, Phytotaxa 183 (4): 299, 2014 (Engel et al. 2014). Bas.: *Balantiopsis hastatistipula* Steph., J. & Proc. Roy. Soc. New South Wales 48 (1/2): 98, 1914 (Stephani and Watts 1914).
- * *Isotachis hians* Steph., Sp. Hepat. (Stephani) 3: 665, 1909 (Stephani 1909a).
- *** *Isotachis humectata* (Hook.f. et Taylor) Steph., Sp. Hepat. (Stephani) 3: 654, 1909 (Stephani 1909a). Bas.: *Jungermannia humectata* Hook.f. et Taylor, London J. Bot. 3: 462, 1844 (Hooker and Taylor 1844b).
- ** *Isotachis inflata* Steph., Arch. Mus. Nac. Rio de Janeiro 13: 113, 1905 (Stephani 1905c).
- *** *Isotachis intortifolia* (Hook.f. et Taylor) Gottsche, Ann. Sci. Nat. Bot. (sér. 5) 1: 121, 1864 (Gottsche 1864). Bas.: *Jungermannia intortifolia* Hook.f. et Taylor, London J. Bot. 3: 374, 1844 (Hooker and Taylor 1844a).
- ** *Isotachis japonica* Steph., Sp. Hepat. (Stephani) 3: 652, 1909 (Stephani 1909a).
- * *Isotachis lacustris* Herzog, Hedwigia 74 (2): 94, 1934 (Herzog 1934a).
- *** *Isotachis lopezii* (R.M.Schust.) Gradst., Mem. New York Bot. Gard. 84: 66, 1999 (Gradstein 1999). Bas.: *Ruizanthus lopezii* R.M.Schust., Phytologia 39 (4): 241, 1978 (Schuster 1978a).
- *** *Isotachis lyallii* Mitt., Bot. antarct. voy. II (Fl. Nov.-Zel. 2): 149, 1854 (Mitten 1854).
- *** *Isotachis minima* Pearson, Univ. Calif. Publ. Bot. 10 (4): 322, 1923 (Pearson 1923).
- *** *Isotachis montana* Colenso, Trans. & Proc. New Zealand Inst. 21: 68, 1889 (Colenso 1889).

- *** *Isotachis multiceps* (Lindenb. et Gottsche) Gottsche, Mexik. Leverm.: 105, 1863 (Gottsche 1863). Bas.: *Jungermannia multiceps* Lindenb. et Gottsche, Syn. Hepat. 5: 687, 1847 (Gottsche et al. 1847).⁶⁷
- ** *Isotachis multiceps* var. *fendleri* Gottsche, Ann. Sci. Nat. Bot. (sér. 5) 1: 125, 1864 (Gottsche 1864).
- ** *Isotachis nigella* Herzog, Memoranda Soc. Fauna Fl. Fennica 27: 107, 1952 (Herzog 1952c).
- *** *Isotachis obtusa* Steph., Sp. Hepat. (Stephani) 6: 354, 1922 (Stephani 1922).
- ** *Isotachis olivacea* R.M.Schust., J. Hattori Bot. Lab. 83: 207, 1997 (Schuster and Engel 1997).
- *** *Isotachis plicata* J.J.Engel, J. Hattori Bot. Lab. 83: 210, 1997 (Schuster and Engel 1997).
- ** *Isotachis pusilla* Steph., Sp. Hepat. (Stephani) 3: 655, 1909 (Stephani 1909a).
- ** *Isotachis riparia* Rodway, Tasm. Bryoph.: 63, 1917 (Rodway 1917b).
- *** *Isotachis serrulata* (Sw.) Gottsche, Ann. Sci. Nat. Bot. (sér. 5) 1: 121, 1864 (Gottsche 1864). Bas.: *Jungermannia serrulata* Sw., Prodr. (Swartz): 143, 1788 (Swartz 1788).
- *** *Isotachis spegazziniana* C.Massal., Nuovo Giorn. Bot. Ital. 17 (3): 220, 1885 (Mas-salongo 1885).
- * *Isotachis sprucei* Beauverd, Sp. Hepat. (Stephani) 6: 572, 1924 (Stephani 1924). *Nom. nov. pro Isotachis trifida* Steph., Sp. Hepat. (Stephani) 6: 356, 1922 (Stephani 1922), *nom. illeg.*
- *** *Isotachis stephanii* E.S.Salmon, Rev. Bryol. 28 (4): 75, 1901 (Salmon 1901).
- * *Isotachis vexans* Steph., Sp. Hepat. (Stephani) 3: 662, 1909 (Stephani 1909a).
- *** *Isotachis westlandica* (E.A.Hodgs.) R.M.Schust., Nova Hedwigia 15: 455, 1968 (Schuster 1968b). Bas.: *Rhizocaulia westlandica* E.A.Hodgs., Trans. Roy. Soc. New Zealand, Bot. 3 (4): 78, 1965 (Hodgson 1965).
- *** ***Neesioscyphus Grolle***, Österr. Bot. Z. 111 (1): 19, 1964 (Grolle 1964e).
- *** *Neesioscyphus allionii* (Steph.) Grolle, Rev. Bryol. Lichénol. 34 (1/2): 185, 1966 (Grolle 1966c). Bas.: *Isotachis allionii* Steph., Sp. Hepat. (Stephani) 6: 350, 1922 (Stephani 1922).
- *** *Neesioscyphus argillaceus* (Nees) Grolle, Österr. Bot. Z. 111 (1): 24, 1964 (Grolle 1964e). Bas.: *Jungermannia argillacea* Nees, Fl. Bras. (Martius) 1 (1): 338, 1833 (Nees 1833a).
- *** *Neesioscyphus bicuspidatus* (Steph.) Grolle, Rev. Bryol. Lichénol. 34 (1/2): 182, 1966 (Grolle 1966c). Bas.: *Isotachis bicuspidata* Steph., Symb. Antill. 2: 471, 1901 (Stephani 1901f).
- *** *Neesioscyphus carneus* (Nees) Grolle, Österr. Bot. Z. 111 (1): 20, 1964 (Grolle 1964e). Bas.: *Jungermannia carnea* Nees, Fl. Bras. (Martius) 1 (1): 337, 1833 (Nees 1833a).
- *** *Neesioscyphus homophyllus* (Nees) Grolle, Österr. Bot. Z. 111 (2/3): 188, 1964 (Grolle 1964f). Bas.: *Jungermannia homophylla* Nees, Fl. Bras. (Martius) 1 (1): 336, 1833 (Nees 1833a).

⁶⁷ *Isotachis multiceps* is sometimes treated as a *Hypoisotachis*, but recent molecular studies (Forrest et al. 2006, Cooper et al. 2012b) point towards inclusion in *Isotachis*.

** Ruizanthoideae R.M.Schust. ex J.J.Engel et G.L.Merr.

*** *Ruizanthus* R.M.Schust., Phytologia 39 (4): 240, 1978 (Schuster 1978a).*** *Ruizanthus venezuelanus* R.M.Schust., Phytologia 39 (4): 240, 1978 (Schuster 1978a).

*** Blepharidophyllaceae R.M.Schust. ex J.J.Engel

by J.J. Engel

*** *Blepharidophyllum* Ångstr., Öfvers. Kongl. Vetensk.-Akad. Förh. 30 (5): 151, 1873 (Ångström 1873).*** *Blepharidophyllum densifolium* (Hook.) Ångstr. ex C.Massal., Nuovo Giorn. Bot. Ital. 17 (3): 208, 1885 (Massalongo 1885). Bas.: *Jungermannia densifolia* Hook., Musci Exot. 1: tab. 36, 1818 (Hooker 1818).*** *Blepharidophyllum vertebrale* (Gottsche) Ångstr. ex C.Massal., Nuovo Giorn. Bot. Ital. 17 (3): 208, 1885 (Massalongo 1885). Bas.: *Scapania vertebralis* Gottsche, Syn. Hepat. 1: 72, 1844 (Gottsche et al. 1844).*** *Clandarium* (Grolle) R.M.Schust., New Manual Bryol. 1: 541, 1983 [1984] (Schuster 1983a). Bas.: *Blepharidophyllum* subg. *Clandarium* Grolle, J. Hattori Bot. Lab. 28: 65, 1965 (Grolle 1965a).*** *Clandarium clandestinum* (Mont.) R.M.Schust., New Manual Bryol. 1: 541, 1983 [1984] (Schuster 1983a). Bas.: *Plagiochila clandestina* Mont., Ann. Sci. Nat. Bot. (sér. 2) 19: 247, 1843 (Montagne 1843).*** *Clandarium gottscheanum* (Grolle) R.M.Schust., New Manual Bryol. 1: 541, 1983 [1984] (Schuster 1983a). Bas.: *Blepharidophyllum gottscheanum* Grolle, J. Hattori Bot. Lab. 28: 69, 1965 (Grolle 1965a).*** *Clandarium xiphophyllum* (Grolle) R.M.Schust., Phytologia 56 (2): 68, 1984 (Schuster 1984). Bas.: *Blepharidophyllum xiphophyllum* Grolle, J. Hattori Bot. Lab. 28: 65, 1965 (Grolle 1965a).

*** Calypogeiaceae Arnell

by M.A.M. Renner

Calypogeiaceae is shown to be monophyletic (Masuzaki et al. 2010b) and the classification follows Schuster (2000a) and Masuzaki et al. (2010b).

*** *Calypogeia Raddi*, Jungermannogr. Etrusca: 31, 1818 (Raddi 1818a) nom. conserv.

- ** **subg. *Asperifoliae* (Warnst.) R.M.Schust.**, Hepat. Anthocerotae N. Amer. 2: 115, 1969 (Schuster 1969b). Bas.: *Calypogeia* [unranked] *Asperifoliae* Warnst., Bryol. Z. 1 (7): 111, 1917 (Warnstorf 1917).
- *** *Calypogeia arguta* Nees et Mont., Naturgesch. Eur. Leberm. 3: 24, 1838 (Nees 1838b).
- ** *Calypogeia sullivantii* Austin, Hepat. bor.-amer.: 19, 1873 (Austin 1873).
- ** **subg. *Calypogeia***
- *** *Calypogeia andicola* Bischl., Candollea 18: 79, 1962 (Bischler 1962a).
- ** *Calypogeia annabonensis* Steph., Sp. Hepat. (Stephani) 6: 447, 1924 (Stephani 1924).
- ** *Calypogeia azorica* Bischl., Rev. Bryol. Lichénol. 37 (1): 116, 1970 (Bischler 1970).
- *** *Calypogeia azurea* Stotler et Crotz, Taxon 32 (1): 74, 1983 (Stotler and Crotz 1983).
- *** *Calypogeia bidentula* (F.Weber) Nees, Syn. Hepat. 2: 199, 1845 (Gottsche et al. 1845a). Bas.: *Jungermannia bidentula* F.Weber, Hist. Musc. Hepat. Prodr.: 38, 1815 (Weber 1815).
- ** *Calypogeia falcata* Bischl., Candollea 18: 112, 1962 (Bischler 1962c).
- *** *Calypogeia fissa* (L.) Raddi, Jungermanniogr. Etrusca: 33, 1818 (Raddi 1818a). Bas.: *Mnium fissum* L., Sp. Pl. 1: 1114, 1753 (Linnaeus 1753), *nom. conserv.*⁶⁸
- ** *Calypogeia fissa* subsp. *neogaea* R.M.Schust., Hepat. Anthocerotae N. Amer. 2: 169, 1969 (Schuster 1969b).
- ** *Calypogeia goebelii* (Schiffn.) Steph., Bull. Herb. Boissier (sér. 2) 8 (9): 677 (409), 1908 (Stephani 1908d). Bas.: *Kantius goebelii* Schiffn., Nova Acta Acad. Caes. Leop.-Carol. German. Nat. Cur. 60 (2): 260, 1893 (Schiffner 1893a).
- ** *Calypogeia goebelii* var. *siamensis* N.Kitag., Beih. Nova Hedwigia 90: 165, 1988 (Kitagawa 1988).
- *** *Calypogeia grandistipula* (Steph.) Steph., Bull. Herb. Boissier (sér. 2) 8 (9): 669 (401), 1908 (Stephani 1908d). Bas.: *Kantius grandistipulus* Steph., Hedwigia 34 (2): 52, 1895 (Stephani 1895c).
- *** *Calypogeia integristipula* Steph., Bull. Herb. Boissier (sér. 2) 8 (9): 662 (394), 1908 (Stephani 1908d).
- *** *Calypogeia laxa* Gottsche et Lindenb., Syn. Hepat. 5: 713, 1847 (Gottsche et al. 1847).
- *** *Calypogeia lechleri* (Steph.) Steph., Bull. Herb. Boissier (sér. 2) 8 (9): 680 (412), 1908 (Stephani 1908d). Bas.: *Kantius lechleri* Steph., Hedwigia 34 (2): 53, 1895 (Stephani 1895c).⁶⁹
- ** *Calypogeia lechleri* var. *densifolia* (Steph.) Bischl., Candollea 18: 101, 1962 (Bischler 1962c). Bas.: *Kantius densifolius* Steph., Hedwigia 34 (2): 52, 1895 (Stephani 1895c).
- ** *Calypogeia longifolia* Steph., Sp. Hepat. (Stephani) 6: 449, 1924 (Stephani 1924).
- ** *Calypogeia lophocoleoides* Steph., Bull. Herb. Boissier (sér. 2) 8 (9): 677 (409), 1908 (Stephani 1908d).

68 *Calypogeia fissa* contains two well separated taxa (Buczowska et al. 2011), but a formal taxonomic treatment is not yet available.

69 *Calypogeia lechleri* was treated as conspecific with *Calypogeia leptoloma* by Bischler (1962c) with hesitation (type specimen not found).

- ** *Calypogeia mascarenensis* Bischl., Rev. Bryol. Lichénol. 37 (1): 89, 1970 (Bischler 1970).
- ** *Calypogeia microstipula* (Steph.) Steph., Bull. Herb. Boissier (sér. 2) 8 (9): 670 (402), 1908 (Stephani 1908d). Bas.: *Kantius microstipulus* Steph., Hedwigia 34 (2): 53, 1895 (Stephani 1895c).
- *** *Calypogeia miquelii* Mont. ex Gottsche, Lindenb. et Nees, Syn. Hepat. 2: 200, 1845 (Gottsche et al. 1845a).
- *** *Calypogeia muelleriana* (Schiffn.) Müll.Frib., Beih. Bot. Centralbl. 10 (4/5): 217, 1901 (Müller 1901b). Bas.: *Kantius muellerianus* Schiffn., Sitzungsber. deutsch. naturwiss.-med. Vereins Böhmen "Lotos" Prag 48: 342, 1900 (Schiffner 1900d).⁷⁰
- ** *Calypogeia muelleriana* subsp. *blomquistii* R.M.Schust., Hepat. Anthocerotae N. Amer. 2: 187, 1969 (Schuster 1969b).
- *** *Calypogeia neesiana* (C.Massal. et Carestia) Müll.Frib., Verh. Bot. Vereins Prov. Brandenburg 47: 320, 1905 (Loeske 1905). Bas.: *Kantius trichomanis* var. *neesianus* C.Massal. et Carestia, Nuovo Giorn. Bot. Ital. 12 (4): 351, 1880 (Massalongo and Carestia 1880).
- ** *Calypogeia neesiana* subsp. *subalpina* (Inoue) Inoue, Mem. Natl. Sci. Mus. (Tokyo) 4: 58, 1971 (Inoue 1971a). Bas.: *Calypogeia subalpina* Inoue, J. Jap. Bot. 37 (4): 103, 1962 (Inoue 1962b).
- *** *Calypogeia oblata* Herzog, Svensk Bot. Tidskr. 51 (1): 189, 1957 (Herzog 1957a).
- *** *Calypogeia peruviana* Nees et Mont., Ann. Sci. Nat. Bot. (sér. 2) 9: 47, 1838 (Montagne 1838).
- *** *Calypogeia rhombifolia* (Spruce) Steph., Bull. Herb. Boissier (sér. 2) 8 (9): 667 (399), 1908 (Stephani 1908d). Bas.: *Kantius rhombifolius* Spruce, Trans. & Proc. Bot. Soc. Edinburgh 15: 413, 1885 (Spruce 1885).
- ** *Calypogeia rhombifolia* var. *colombiana* Bischl., Candollea 18: 104, 1962 (Bischler 1962c).
- *** *Calypogeia sphagnicola* (Arnell et J.Perss.) Warnst. et Loeske, Verh. Bot. Vereins Prov. Brandenburg 47: 320, 1905 (Loeske 1905). Bas.: *Kantius sphagnicola* Arnell et J.Perss., Rev. Bryol. 29 (2): 26, 1902 (Arnell 1902).⁷¹
- *** *Calypogeia subintegra* (Gottsche, Lindenb. et Nees) Bischl., Candollea 18: 75, 1962 (Bischler 1962a). Bas.: *Calypogeia peruviana* β *subintegra* Gottsche, Lindenb. et Nees, Syn. Hepat. 5: 712, 1847 (Gottsche et al. 1847).
- ** *Calypogeia subintegra* var. *dussiana* (Steph.) Bischl., Candollea 18: 77, 1962 (Bischler 1962a). Bas.: *Calypogeia dussiana* Steph., Bull. Herb. Boissier (sér. 2) 8 (9): 672 (404), 1908 (Stephani 1908d).

70 *Calypogeia muelleriana* contains two well separated taxa (Buczowska 2010, Buczowska and Bączkiewicz 2011). One corresponds well to the type of the species while the name of the other is unknown.

71 *Calypogeia sphagnicola* is a species complex including at least three genetically and morphologically well separated taxa (Buczowska et al. 2012b, 2012a). They all need to be compared with types of many existing names in the genus before the correct name can be assigned.

- *** *Calypogeia suecica* (Arnell et J.Perss.) Müll.Frib., Beih. Bot. Centralbl. 17 (2): 224, 1904 (Müller 1904). Bas.: *Kantius suecicus* Arnell et J.Perss., Rev. Bryol. 29 (2): 29, 1902 (Arnell 1902).
- *** *Calypogeia tenax* (Spruce) Steph., Bull. Herb. Boissier (sér. 2) 8 (9): 664 (396), 1908 (Stephani 1908d). Bas.: *Kantius tenax* Spruce, Trans. & Proc. Bot. Soc. Edinburgh 15: 416, 1885 (Spruce 1885).
- ** *Calypogeia uncinulatula* Herzog, Hedwigia 67 (6): 250, 1927 (Herzog 1927).

Incertae sedis

- *** *Calypogeia aeruginosa* Mitt., J. Proc. Linn. Soc., Bot. 5 (18): 107, 1860 [1861] (Mitten 1860c).
- * *Calypogeia amazonica* (Spruce) Steph., Bull. Herb. Boissier (sér. 2) 8 (9): 680 (412), 1908 (Stephani 1908d). Bas.: *Kantius amazonicus* Spruce, Trans. & Proc. Bot. Soc. Edinburgh 15: 415, 1885 (Spruce 1885).⁷²
- ** *Calypogeia angusta* Steph., Bull. Herb. Boissier (sér. 2) 8 (9): 663 (395), 1908 (Stephani 1908d).
- ** *Calypogeia apiculata* (Steph.) Steph., Bull. Herb. Boissier (sér. 2) 8 (9): 668 (400), 1908 (Stephani 1908d). Bas.: *Kantius apiculatus* Steph., Hedwigia 34 (2): 51, 1895 (Stephani 1895c).
- ** *Calypogeia asakawana* S.Hatt. ex Inoue, J. Jap. Bot. 39 (4): 107, 1964 (Inoue 1964a).
- ** *Calypogeia ceylanica* S.Hatt. et Mizut., Candollea 23: 288, 1968 (Hattori 1968).
- ** *Calypogeia contracta* Inoue, Bull. Natl. Sci. Mus. Tokyo, B 1 (4): 139, 1975 (Inoue 1975b).
- ** *Calypogeia cuspidata* (Steph.) Steph., Bull. Herb. Boissier (sér. 2) 8 (9): 669 (401), 1908 (Stephani 1908d). Bas.: *Kantius cuspidatus* Steph., Bull. Herb. Boissier 5 (10): 846, 1897 (Stephani 1897c).
- * *Calypogeia decurrens* (Steph.) Steph., Bull. Herb. Boissier (sér. 2) 8 (9): 675 (407), 1908 (Stephani 1908d). Bas.: *Kantius decurrens* Steph., Hedwigia 34 (2): 52, 1895 (Stephani 1895c).
- ** *Calypogeia formosana* Horik., J. Sci. Hiroshima Univ., Ser. B, Div. 2, Bot. 2: 186, 1934 (Horikawa 1934).
- ** *Calypogeia fujisana* Inoue, Bull. Natl. Sci. Mus. Tokyo, B 1 (4): 135, 1975 (Inoue 1975b).
- ** *Calypogeia granulata* Inoue, J. Jap. Bot. 43 (10/11): 468, 1968 (Inoue 1968b).
- ** *Calypogeia japonica* Steph., Sp. Hepat. (Stephani) 6: 448, 1924 (Stephani 1924).
- ** *Calypogeia khasiana* Ajit P.Singh et V.Nath, Taiwania 52 (4): 320, 2007 (Singh and Nath 2007a).
- ** *Calypogeia latissima* Steph., Sp. Hepat. (Stephani) 6: 449, 1924 (Stephani 1924).

72 *Calypogeia amazonica* was treated as conspecific with *Calypogeia miquelii* in Gradstein et al. (1994), but it has been accepted by later authors (e.g. Churchill et al. 2008, Söderström et al. 2013e).

- *** *Calypogeia lunata* Mitt., J. Proc. Linn. Soc., Bot. 5 (18): 107, 1860 [1861] (Mitten 1860c).
- ** *Calypogeia marginella* Mitt., J. Proc. Linn. Soc., Bot. 5 (18): 106, 1860 [1861] (Mitten 1860c).
- ** *Calypogeia obovata* R.M.Schust., Phytologia 39 (4): 242, 1978 (Schuster 1978a).
- * *Calypogeia steyermarkii* Fulford, Mem. New York Bot. Gard. 11 (3): 305, 1968 (Fulford 1968).
- ** *Calypogeia tosana* (Steph.) Steph., Bull. Herb. Boissier (sér. 2) 8 (9): 678 (410), 1908 (Stephani 1908d). Bas.: *Kantius tosanus* Steph., Hedwigia 34 (2): 54, 1895 (Stephani 1895c).
- ** *Calypogeia udarii* Sudipa Das et D.K.Singh, Nelumbo 53: 194, 2011 (Das and Singh 2011).
- ** ***Eocalypogeia* (R.M.Schust.) R.M.Schust.**, Fragm. Florist. Geobot. 40 (2): 861, 1995 (Schuster 1995a). Bas.: *Metacalypogeia* subg. *Eocalypogeia* R.M.Schust., Hepat. Anthocerotae N. Amer. 2: 107, 1969 (Schuster 1969b).
- ** *Eocalypogeia quelpaertensis* (S.Hatt. et Inoue) R.M.Schust., Fragm. Florist. Geobot. 40 (2): 861, 1995 (Schuster 1995a). Bas.: *Metacalypogeia quelpaertensis* S.Hatt. et Inoue, J. Hattori Bot. Lab. 25: 129, 1962 (Hattori et al. 1962).
- ** *Eocalypogeia schusterana* (S.Hatt. et Mizut.) R.M.Schust., Fragm. Florist. Geobot. 40 (2): 861, 1995 (Schuster 1995a). Bas.: *Metacalypogeia schusterana* S.Hatt. et Mizut., Misc. Bryol. Lichenol. 4 (8): 121, 1967 (Hattori and Mizutani 1967).
- ** ***Metacalypogeia* (S.Hatt.) Inoue**, J. Hattori Bot. Lab. 21: 231, 1959 (Inoue 1959b). Bas.: *Calypogeia* subg. *Metacalypogeia* S.Hatt., J. Hattori Bot. Lab. 18: 83, 1957 (Hattori 1957b).
- *** *Metacalypogeia alternifolia* (Nees) Grolle, Österr. Bot. Z. 111 (2/3): 185, 1964 (Grolle 1964f). Bas.: *Mastigobryum alternifolium* Nees, Syn. Hepat. 2: 216, 1845 (Gottsche et al. 1845a).
- ** *Metacalypogeia cordifolia* (Steph.) Inoue, J. Hattori Bot. Lab. 21: 233, 1959 (Inoue 1959b). Bas.: *Calypogeia cordifolia* Steph., Bull. Herb. Boissier (sér. 2) 8 (9): 661 (393), 1908 (Stephani 1908d).
- ** ***Mizutania Furuki et Z.Iwats.***, J. Hattori Bot. Lab. 67: 291, 1989 (Furuki and Iwatsuki 1989).
- *** *Mizutania riccardioides* Furuki et Z.Iwats., J. Hattori Bot. Lab. 67: 291, 1989 (Furuki and Iwatsuki 1989).
- *** ***Mnioloma Herzog***, Ann. Bryol. 3: 115, 1930 (Herzog 1930a).
- ** **subg. *Caracoma* (Bischl.) R.M.Schust.**, Fragm. Florist. Geobot. 40 (2): 833, 1995 (Schuster 1995a). Bas.: *Calypogeia* subg. *Caracoma* Bischl., Candollea 18: 26, 1962 (Bischler 1962b).

- ** *Mnioloma bolivianum* (Fulford) R.M.Schust., Beih. Nova Hedwigia 118: 509, 2000 (Schuster 2000a). Bas.: *Calypogeia boliviana* Fulford, Mem. New York Bot. Gard. 11 (3): 291, 1968 (Fulford 1968).
- *** *Mnioloma caespitosum* (Spruce) R.M.Schust., Fragm. Florist. Geobot. 40 (2): 839, 1995 (Schuster 1995a). Bas.: *Kantius caespitosus* Spruce, Trans. & Proc. Bot. Soc. Edinburgh 15: 412, 1885 (Spruce 1885).
- *** *Mnioloma cellulolum* (Spreng.) R.M.Schust., Fragm. Florist. Geobot. 40 (2): 836, 1995 (Schuster 1995a). Bas.: *Jungermannia cellulosa* Spreng. Syst. Veg. (ed. 16) [Sprengel] 4 (1): 232, 1827 (Sprengel 1827a).
- *** *Mnioloma crenulatum* (Bischl.) R.M.Schust., Fragm. Florist. Geobot. 40 (2): 839, 1995 (Schuster 1995a). Bas.: *Calypogeia crenulata* Bischl., Candollea 18: 35, 1962 (Bischler 1962b).
- *** *Mnioloma cyclostipum* (Spruce) R.M.Schust., Fragm. Florist. Geobot. 40 (2): 843, 1995 (Schuster 1995a). Bas.: *Kantius cyclostipus* Spruce, Trans. & Proc. Bot. Soc. Edinburgh 15: 411, 1885 (Spruce 1885).
- ** *Mnioloma elliotii* (Steph.) R.M.Schust., Fragm. Florist. Geobot. 40 (2): 841, 1995 (Schuster 1995a). Bas.: *Calypogeia elliotii* Steph., Bull. Herb. Boissier (sér. 2) 8 (9): 663 (395), 1908 (Stephani 1908d).
- ** *Mnioloma fissistipulum* (Bischl.) R.M.Schust., Fragm. Florist. Geobot. 40 (2): 847, 1995 (Schuster 1995a). Bas.: *Calypogeia fissistipula* Bischl., Candollea 18: 47, 1962 (Bischler 1962b).
- *** *Mnioloma fuscum* (Lehm.) R.M.Schust., Fragm. Florist. Geobot. 40 (2): 848, 1995 (Schuster 1995a). Bas.: *Jungermannia fusca* Lehm., Linnaea 4: 360, 1829 (Lehmann 1829).
- *** *Mnioloma nephrostipum* (Spruce) R.M.Schust., Fragm. Florist. Geobot. 40 (2): 847, 1995 (Schuster 1995a). Bas.: *Kantius nephrostipus* Spruce, Trans. & Proc. Bot. Soc. Edinburgh 15: 412, 1885 (Spruce 1885).
- ** *Mnioloma novaezelandiae* J.J.Engel, Cryptog. Bryol. 27 (1): 111, 2006 (Engel 2006a).
- *** *Mnioloma parallelogramum* (Spruce) R.M.Schust., Fragm. Florist. Geobot. 40 (2): 847, 1995 (Schuster 1995a). Bas.: *Kantius parallelogramus* Spruce, Trans. & Proc. Bot. Soc. Edinburgh 15: 413, 1885 (Spruce 1885).
- ** *Mnioloma retusum* (Bischl.) R.M.Schust., Fragm. Florist. Geobot. 40 (2): 839, 1995 (Schuster 1995a). Bas.: *Calypogeia retusa* Bischl., Candollea 18: 33, 1962 (Bischler 1962b).
- ** *Mnioloma stamatotonomum* M.A.M.Renner et E.A.Br., Fieldiana, Bot. (n.ser.) 47: 173, 2008 (Renner and Brown 2008).
- *** *Mnioloma venezuelanum* (Fulford) R.M.Schust., Beih. Nova Hedwigia 118: 509, 2000 (Schuster 2000a). Bas.: *Calypogeia venezuelana* Fulford, Mem. New York Bot. Gard. 11 (3): 287, 1968 (Fulford 1968).
- ** **subg. *Mnioloma***, Fragm. Florist. Geobot. 40 (2): 833, 1995 (Schuster 1995a).
- *** *Mnioloma rhynchophyllum* Herzog, Ann. Bryol. 3: 120, 1930 (Herzog 1930a).

*** Endogemmataceae Konstant., Vilnet et A.V.Troitsky

by N.A. Konstantinova

Vilnet et al. (2011) described the monotypic family Endogemmataceae based on molecular evidence after a re-evaluation of Solenostomataceae.

*** *Endogemma* Konstant., Vilnet et A.V.Troitsky, Folia Cryptog. Estonica 48: 132, 2011 (Vilnet et al. 2011).

*** *Endogemma caespiticia* (Lindenb.) Konstant., Vilnet et A.V.Troitsky, Folia Cryptog. Estonica 48: 132, 2011 (Vilnet et al. 2011). Bas.: *Jungermannia caespiticia* Lindenb., Syn. hepat. eur: 67, 1829 (Lindenberg 1829).

*** Geocalyceae H.Klinggr.

Placement of Geocalyceae in Jungermanniinae follows Shaw et al. (2015).

*** *Geocalyx* Nees, Naturgesch. Eur. Leberm. 1: 97, 1833 (Nees 1833c).

*** *Geocalyx caledonicus* Steph., Bull. Herb. Boissier (sér. 2) 8 (3): 205 (265), 1908 (Stephani 1908h).

*** *Geocalyx graveolens* (Schrad.) Nees, Naturgesch. Eur. Leberm. 2: 397, 1836 (Nees 1836). Bas.: *Jungermannia graveolens* Schrad., Syst. Samml. Crypt. Gew. 2: 6, 1797 (Schrader 1797).

** *Geocalyx lancistipulus* (Steph.) S.Hatt., J. Jap. Bot. 28 (8): 234, 1953 (Hattori 1953a). Bas.: *Lophocolea lancistipula* Steph., Sp. Hepat. (Stephani) 6: 281, 1922 (Stephani 1922).

** *Geocalyx orientalis* Besch. et Spruce, Bull. Soc. Bot. France (Congr. Bot.) 36: clxxxix, 1889 [1890] (Bescherelle and Spruce 1889).

*** Gymnomitriaceae H.Klinggr.

by J. Váňa

The treatment of the family follows Váňa et al. (2010b) with some modifications. Nardioideae is included following Vilnet et al. (2010) and Váňa et al. (2014c). Some re-arrangements in *Apomarsupella*, *Gymnomitrium* and *Marsupella* were done by Vilnet et al (2010) and Shaw et al. (2015). Further notes on nomenclature and taxonomy can be found in Váňa et al. (2013d). *Herzogobryum* and *Nothogymnomitrium* were removed from the family by Váňa et al. (2013e). The placement of *Acrolophozia*, *Nanomarsupella* and *Paramomitrium* is provisional. Inclusion of *Cryptocoleopsis* follows Shaw et al (2015).

- *** ***Acrolophozia* R.M.Schust.**, Rev. Bryol. Lichénol. 34 (1/2): 259, 1966 (Schuster 1966b).
- *** *Acrolophozia fuegiana* R.M.Schust., Nova Hedwigia 15: 499, 1968 (Schuster 1968b).
- *** *Acrolophozia pectinata* R.M.Schust., Rev. Bryol. Lichénol. 34 (1/2): 261, 1966 (Schuster 1966b).
- *** *Acrolophozia sulcata* Hässel, J. Bryol. 11 (1): 108, 1980 (Hässel 1980).
- ** ***Nanomarsupella* R.M.Schust. ex A.Hagborg, L.Söderstr. et von Konrat**, Phytotaxa 112 (1): 16, 2013 (Hagborg et al. 2013). Based on: *Marsupella* subg. *Nanomarsupella* R.M.Schust., Phytologia 39 (4): 248, 1978 (Schuster 1978a).
- *** *Nanomarsupella xenophylla* (R.M.Schust.) R.M.Schust. ex A.Hagborg, L.Söderstr. et von Konrat, Phytotaxa 112 (1): 16, 2013 (Hagborg et al. 2013). Bas.: *Marsupella xenophylla* R.M.Schust., Phytologia 39 (4): 248, 1978 (Schuster 1978a).
- ** ***Paramomitrium* R.M.Schust.**, J. Hattori Bot. Lab. 80: 134, 1996 (Schuster 1996a).
- *** *Paramomitrium paradoxum* R.M.Schust., J. Hattori Bot. Lab. 80: 135, 1996 (Schuster 1996a).
- *** **Gymnomitrioideae T.Jensen**
- ** ***Cryptocoleopsis* Amakawa**, J. Hattori Bot. Lab. 21: 274, 1959 (Amakawa 1959a).
- *** *Cryptocoleopsis imbricata* Amakawa, J. Hattori Bot. Lab. 21: 274, 1959 (Amakawa 1959a).
- *** ***Gymnomitrium* Corda**, Gen. hepat.: 651, 1829 (Corda 1829) nom. conserv.
- *** *Gymnomitrium adustum* Nees, Naturgesch. Eur. Leberm. 1: 120, 1833 (Nees 1833c).
- *** *Gymnomitrium africanum* (Steph.) Horik., Acta Phytotax. Geobot. 13: 212, 1943 (Horikawa 1943). Bas.: *Acolea africana* Steph., Sp. Hepat. (Stephani) 6: 77, 1917 (Stephani 1917a).
- *** *Gymnomitrium alpinum* (Gottsche ex Husn.) Schiffn., Österr. Bot. Z. 53 (7): 280, 1903 (Schiffner 1903a). Bas.: *Sarcocyphos alpinus* Gottsche ex Husn., Hepaticol. gall. 1: 13, 1875 (Husnot 1875).
- *** *Gymnomitrium asperulatum* R.M.Schust., Acta Acad. Ped. Agr., Sect. Biol. 24: 114, 2003 (Váňa 2003).
- *** *Gymnomitrium atrofilum* Váňa, J. Hattori Bot. Lab. 41: 411, 1976 (Váňa 1976b).
- *** *Gymnomitrium bolivianum* (Steph.) Váňa, Novon 20 (2): 225, 2010 (Váňa et al. 2010c). Bas.: *Anastrophyllum bolivianum* Steph., Biblioth. Bot. 87 (2): 186, 1916 (Stephani 1916a).
- *** *Gymnomitrium brevissimum* (Dumort.) Warnst., Hedwigia 53 (3): 196, 1913 (Warnstorf 1913). Bas.: *Acolea brevissima* Dumort., Syll. Jungerm. Europ.: 76, 1831 (Dumortier 1831).

- *** *Gymnomitrium commutatum* (Limpr.) Schiffn., Magyar Bot. Lapok 13: 304, 1914 [1915] (Schiffner 1914b). Bas.: *Sarcocyphos commutatus* Limpr., Jahresber. Schles. Ges. Vaterl. Cult. 57: 314, 1879 [1880] (Limpricht 1879).
- *** *Gymnomitrium concinnatum* (Lightf.) Corda, Gen. hepat.: 651, 1829 (Corda 1829). Bas.: *Jungermannia concinnata* Lightf., Fl. Scot. 2: 786, 1777 (Lightfoot 1777), *nom. conserv.*
- *** *Gymnomitrium corallioides* Nees, Naturgesch. Eur. Leberm. 1: 118, 1833 (Nees 1833c).
- *** *Gymnomitrium crenatilibum* Grolle, Khumbu Himal 1 (4): 278, 1966 (Grolle 1966k).
- *** *Gymnomitrium crenulatum* Gottsche ex Carrington, Trans. Bot. Soc. Edinburgh 7 (3): 444, 1863 (Carrington 1863).
- *** *Gymnomitrium crystallocaulon* (Grolle) Váňa, Crand.-Stotl. et Stotler, Syst. Bot. 40 (1): 39, 2015 (Shaw et al. 2015). Bas.: *Marsupella crystallocaulon* Grolle, Khumbu Himal 1 (4): 281, 1966 (Grolle 1966k).
- ** *Gymnomitrium incompletum* (Gottsche) R.M.Schust. ex Váňa, J. Hattori Bot. Lab. 40: 186, 1976 (Váňa 1976a). Bas.: *Jungermannia incompleta* Gottsche, Linnæa 28 (5): 551, 1856 [1857] (Gottsche 1856).
- *** *Gymnomitrium laceratum* (Steph.) Horik., Acta Phytotax. Geobot. 13: 212, 1943 (Horikawa 1943). Bas.: *Acolea lacerata* Steph., Sp. Hepat. (Stephani) 6: 78, 1917 (Stephani 1917a).
- *** *Gymnomitrium miniatum* Lindenb. et Gottsche, Syn. Hepat. 4: 617, 1846 (Gottsche et al. 1846).
- *** *Gymnomitrium minutulum* (Hässel) Váňa, Novon 20 (2): 225, 2010 (Váňa et al. 2010c). Bas.: *Marsupella minutula* Hässel, J. Bryol. 11 (1): 123, 1980 (Hässel 1980).
- ** *Gymnomitrium moralesae* Váňa, J. Hattori Bot. Lab. 48: 230, 1980 (Váňa 1980).
- *** *Gymnomitrium mucronulatum* (N.Kitag.) N.Kitag., Acta Phytotax. Geobot. 19 (2/3): 53, 1962 (Kitagawa 1962a). Bas.: *Gymnomitrium concinnatum* var. *mucronulatum* N.Kitag., Acta Phytotax. Geobot. 18 (2/3): 38, 1959 (Kitagawa 1959).
- ** *Gymnomitrium mucrophorum* R.M.Schust., Bryologist 98 (2): 243, 1995 (Schuster 1995d).
- *** *Gymnomitrium nigrum* (Grolle et Váňa) Váňa, Novon 20 (2): 225, 2010 (Váňa et al. 2010c). Bas.: *Marsupella nigra* Grolle et Váňa, J. Hattori Bot. Lab. 40: 186, 1976 (Váňa 1976a).
- *** *Gymnomitrium noguchianum* S.Hatt., J. Jap. Bot. 27 (2): 55, 1952 (Hattori 1952b).
- *** *Gymnomitrium obtusilobum* N.Kitag., Bull. Univ. Mus. Univ. Tokyo 8: 229, 1975 (Hattori 1975e).
- *** *Gymnomitrium obtusum* Lindb., Morgonbladet (Helsinki) 1877 (30, 6 Feb): 2, 1877 (Lindberg 1877a).
- *** *Gymnomitrium pacificum* Grolle, Trans. Brit. Bryol. Soc. 5 (1): 92, 1966 (Grolle 1966f).
- *** *Gymnomitrium revolutum* (Nees) H.Philib., Rev. Bryol. 17 (3): 34, 1890 (Philibert 1890). Bas.: *Sarcocyphos revolutus* Nees, Naturgesch. Eur. Leberm. 2: 419, 1836 (Nees 1836).

- ** *Gymnomitrion revolutum* subsp. *novoguineanensis* (R.M.Schust.) Váňa, Crand.-Stotl. et Stotler, Syst. Bot. 40 (1): 39, 2015 (Shaw et al. 2015). Bas.: *Apomarsupella revoluta* subsp. *novoguineanensis* R.M.Schust., J. Hattori Bot. Lab. 80: 90, 1996 (Schuster 1996a).
- *** *Gymnomitrion rubidum* (Mitt.) Váňa, Crand.-Stotl. et Stotler, Syst. Bot. 40 (1): 39, 2015 (Shaw et al. 2015). Bas.: *Jungermannia rubida* Mitt., J. Proc. Linn. Soc., Bot. 5 (18): 90, 1860 [1861] (Mitten 1860c).
- *** *Gymnomitrion setaceum* Grolle et Váňa, J. Hattori Bot. Lab. 41: 411, 1976 (Váňa 1976b).
- *** *Gymnomitrion sinense* Müll.Frib., Rev. Bryol. Lichénol. 20 (1/2): 176, 1951 (Müller 1951b).
- ** *Gymnomitrion strictum* (Berggr.) R.M.Schust., J. Hattori Bot. Lab. 26: 280, 1963 (Schuster 1963b). Bas.: *Cesius strictus* Berggr., New Zealand Hepat.: 2, 1898 (Berggren 1898).
- ** *Gymnomitrion strictum* var. *inaequale* R.M.Schust., J. Hattori Bot. Lab. 80: 118, 1996 (Schuster 1996a).
- *** *Gymnomitrion subintegrum* (S.W.Arnell) Váňa, Novon 20 (2): 225, 2010 (Váňa et al. 2010c). Bas.: *Marsupella subintegra* S.W.Arnell, Ark. Bot. (n.ser.) 3 (16): 545, 1956 (Arnell 1956e).
- *** *Gymnomitrion truncatoapiculatum* Herzog, Hedwigia 74 (2): 81, 1934 (Herzog 1934a).
- *** *Gymnomitrion verrucosum* W.E.Nicholson, Symb. Sin. 5: 10, 1930 (Nicholson et al. 1930).
- *** ***Marsupella Dumort.***, Commentat. Bot. (Dumortier): 114, 1822 (Dumortier 1822).
- *** *Marsupella alata* S.Hatt. et N.Kitag., Mem. Coll. Sci. Kyoto Imp. Univ., Ser. B, Biol. 27: 79, 1960 (Kitagawa 1960b).
- *** *Marsupella andreaeoides* (Lindb.) Müll.Frib., Feddes Repert. Spec. Nov. Regni Veg. 54 (2/3): 214, 1951 (Müller 1951a). Bas.: *Cesius andreaeoides* Lindb., Meddel. Soc. Fauna Fl. Fenn. 14: 68, 1887 (Lindberg 1887a).
- *** *Marsupella apiculata* Schiffn., Österr. Bot. Z. 53 (6): 249, 1903 (Schiffner 1903b).
- *** *Marsupella aquatica* (Lindenb.) Schiffn., Sitzungsber. deutsch. naturwiss.-med. Vereins Böhmen "Lotos" Prag 44 (8): 267, 1896 [1897] (Schiffner 1896a). Bas.: *Jungermannia emarginata* var. *aquatica* Lindenb., Syn. hepat. eur: 75, 1829 (Lindenberg 1829).
- *** *Marsupella arctica* (Berggr.) Bryhn et Kaal., Rep. Second Norweg. Arctic Exped. 11: 26, 1906 (Bryhn 1906). Bas.: *Sarcocypbos emarginatus* var. *arcticus* Berggr., Kongl. Svenska Vetensk.-Akad. Handl. (n.ser.) 13 (7): 96, 1875 (Berggren 1875).
- *** *Marsupella boeckii* (Austin) Lindb. ex Kaal., Nyt Mag. Naturvidensk. 33 (4/5): 409, 1893 (Kaalas 1893b). Bas.: *Sarcocypbos boeckii* Austin, Bull. Torrey Bot. Club 3 (3): 9, 1872 (Austin 1872).
- *** *Marsupella bolanderi* (Austin) Underw., Zoe 1 (12): 365, 1891 (Underwood 1891). Bas.: *Sarcocypbos bolanderi* Austin, Bull. Torrey Bot. Club 3 (3): 9, 1872 (Austin 1872).

- *** *Marsupella condensata* (Ångstr. ex C.Hartm.) Lindb. ex Kaal., Nyt Mag. Naturvidensk. 33 (4/5): 420, 1893 (Kaalaas 1893b). Bas.: *Gymnomitrium condensatum* Ångstr. ex C.Hartm., Handb. Skand. fl. (ed. 10): 128, 1871 (Hartman 1871).
- *** *Marsupella disticha* Steph., Bull. Herb. Boissier (sér. 2) 1 (2): 164 (25), 1901 (Stephani 1901h).
- *** *Marsupella emarginata* (Ehrh.) Dumort., Recueil Observ. Jungerm.: 24, 1835 (Dumortier 1835). Bas.: *Jungermannia emarginata* Ehrh., Hannover. Mag. 22 (8): 141, 1784 (Ehrhart 1784).
- ** *Marsupella emarginata* subsp. *tubulosa* (Steph.) N.Kitag., Mem. Coll. Sci. Kyoto Imp. Univ., Ser. B, Biol. 27: 76, 1960 (Kitagawa 1960b). Bas.: *Marsupella tubulosa* Steph., Bull. Herb. Boissier 5 (2): 99, 1897 (Stephani 1897b).
- ** *Marsupella emarginata* subsp. *tubulosa* var. *apertifolia* (Steph.) N.Kitag., J. Hattori Bot. Lab. 26: 89, 1963 (Kitagawa 1963b). Bas.: *Marsupella apertifolia* Steph., Bull. Herb. Boissier (sér. 2) 1 (2): 162 (23), 1901 (Stephani 1901h).
- ** *Marsupella emarginata* subsp. *tubulosa* var. *patens* N.Kitag., Mem. Coll. Sci. Kyoto Imp. Univ., Ser. B, Biol. 27: 77, 1960 (Kitagawa 1960b).
- ** *Marsupella emarginata* subsp. *tubulosa* var. *tubulosa* (Steph.) N.Kitag. ex Váňa et L.Söderstr., Phytotaxa 183 (4): 288, 2014 (Váňa et al. 2014c). Bas.: *Marsupella tubulosa* Steph., Bull. Herb. Boissier 5 (2): 99, 1897 (Stephani 1897b).
- *** *Marsupella funckii* (F.Weber et D.Mohr) Dumort., Recueil Observ. Jungerm.: 24, 1835 (Dumortier 1835). Bas.: *Jungermannia funckii* F.Weber et D.Mohr, Bot. Taschenb. (Weber): 422, 1807 (Weber and Mohr 1807).
- *** *Marsupella microphylla* R.M.Schust., Phytologia 39 (4): 249, 1978 (Schuster 1978a).
- ** *Marsupella minutissima* N.Kitag., Mem. Coll. Sci. Kyoto Imp. Univ., Ser. B, Biol. 27: 81, 1960 (Kitagawa 1960b).
- *** *Marsupella neesii* Sande Lac. ex Schiffn., Consp. Hepat. Arch. Ind.: 70, 1898 (Schiffner 1898b). Based on: *Sarcocypnos neesii* Nees ex Sande Lac., Ann. Mus. Bot. Lugduno-Batavi 1: 288, 1864 (Sande Lacoste 1864), *nom. inval.*
- *** *Marsupella paroica* R.M.Schust., Bryologist 60 (2): 145, 1957 (Schuster 1957b).
- *** *Marsupella profunda* Lindb., Rev. Bryol. 14 (2): 19, 1887 (Lindberg 1887b).
- *** *Marsupella pseudofunckii* S.Hatt., J. Hattori Bot. Lab. 4: 63, 1950 (Hattori 1950).
- *** *Marsupella sparsifolia* (Lindb.) Dumort., Bull. Soc. Roy. Bot. Belgique 13: 128, 1874 (Dumortier 1874). Bas.: *Sarcocypnos sparsifolius* Lindb., Not. Sällsk. Fauna Fl. Fenn. Förh. 9: 280, 1868 (Lindberg 1868b).
- ** *Marsupella sparsifolia* subsp. *childii* R.M.Schust., Phytotaxa 183 (4): 288, 2014 (Váňa et al. 2014c). Based on: *Marsupella sparsifolia* subsp. *childii* R.M.Schust., J. Hattori Bot. Lab. 80: 61, 1996 (Schuster 1996a), *nom. inval.*
- *** *Marsupella sphacelata* (Giesecke ex Lindenb.) Dumort., Recueil Observ. Jungerm.: 24, 1835 (Dumortier 1835). Bas.: *Jungermannia sphacelata* Giesecke ex Lindenb., Syn. hepat. eur: 76, 1829 (Lindenberg 1829).
- *** *Marsupella spiniloba* R.M.Schust. et Damsh., Phytologia 63 (5): 326, 1987 (Schuster and Damsholt 1987).

- *** *Marsupella sprucei* (Limpr.) Bernet, Cat. hép. Suisse: 33, 1888 (Bernet 1888). Bas.: *Sarcocyphos sprucei* Limpr., Flora 64 (5): 72, 1881 (Limpricht 1881).
- ** *Marsupella stableri* Spruce, Rev. Bryol. 8 (6): 96, 1881 (Spruce 1881a).
- *** *Marsupella stoloniformis* N.Kitag., J. Hattori Bot. Lab. 30: 201, 1967 (Kitagawa 1967b).
- ** *Marsupella stoloniformis* subsp. *vermiformis* R.M.Schust., J. Hattori Bot. Lab. 80: 72, 1996 (Schuster 1996a).
- *** *Marsupella yakushimensis* (Horik.) S.Hatt., Bull. Tokyo Sci. Mus. 11: 80, 1944 (Hattori 1944d). Bas.: *Sphenolobus yakushimensis* Horik., J. Sci. Hiroshima Univ., Ser. B, Div. 2, Bot. 2: 156, 1934 (Horikawa 1934).
- *** *Poeltia Grolle*, Khumbu Himal 1 (4): 280, 1966 (Grolle 1966k).
- *** *Poeltia campylata* Grolle, Khumbu Himal 1 (4): 280, 1966 (Grolle 1966k).
- *** *Prasanthus Lindb.*, Kongl. Svenska Vetensk.-Akad. Handl. (n.ser.) 23 (5): 62, 1889 (Lindberg and Arnell 1889).
- ** *Prasanthus jamalicus* Potemkin, Ann. Bot. Fenn. 29 (4): 319, 1992 (Potemkin 1992).
- *** *Prasanthus suecicus* (Gottsche) Lindb., Kongl. Svenska Vetensk.-Akad. Handl. (n. ser.) 23 (5): 62, 1889 (Lindberg and Arnell 1889). Bas.: *Gymnomitrium suecicum* Gottsche, Fl. Danica 16 (48): 20, 1871 (Lange 1871).

*** Nardioideae Váňa

- *** *Nardia Gray*, Nat. Arr. Brit. Pl. 1: 694, 1821 (Gray 1821) nom. conserv.
- *** *Nardia arnelliana* Grolle, Bot. Mag. (Tokyo) 77 (914): 297, 1964 (Grolle 1964b).
- *** *Nardia assamica* (Mitt.) Amakawa, J. Hattori Bot. Lab. 26: 23, 1963 (Amakawa 1963). Bas.: *Jungermannia assamica* Mitt., J. Proc. Linn. Soc., Bot. 5 (18): 91, 1860 [1861] (Mitten 1860c).
- *** *Nardia breidlerii* (Limpr.) Lindb., Helsingf. Dagbl. 1880 (311, 15 Nov.): 2, 1880 (Lindberg 1880b). Bas.: *Alicularia breidlerii* Limpr., Jahresber. Schles. Ges. Vaterl. Cult. 57: 311, 1879 [1880] (Limpricht 1879).
- *** *Nardia compressa* (Hook.) Gray, Nat. Arr. Brit. Pl. 1: 694, 1821 (Gray 1821). Bas.: *Jungermannia compressa* Hook., Brit. Jungermann.: tab. 58, 1813 (Hooker 1813).
- *** *Nardia flagelliformis* Inoue, J. Jap. Bot. 46 (1): 1, 1971 (Inoue 1971b).
- *** *Nardia geoscyphus* (De Not.) Lindb., Not. Sällsk. Fauna Fl. Fenn. Förh. 13: 371, 1874 (Lindberg 1874a). Bas.: *Alicularia geoscyphus* De Not., Mem. Reale Accad. Sci. Torino (ser. 2) 18: 486, 1859 (De Notaris 1859).
- * *Nardia geoscyphus* var. *dioica* Bakalin, Arctoa 18: 87, 2009 [2010] (Bakalin et al. 2009b).
- * *Nardia geoscyphus* var. *suberecta* (Lindb. ex Kaal.) Váňa, Phytotaxa 76 (3): 37, 2013 (Váňa et al. 2013d). Bas.: *Nardia haematosticta* var. *suberecta* Kaal., Nyt Mag. Naturvidensk. 33 (4/5): 395, 1893 (Kaalaas 1893b).

- *** *Nardia grollei* Váňa et D.G.Long, Nova Hedwigia 89 (3/4): 491, 2009 (Váňa and Long 2009).
- *** *Nardia insecta* Lindb., Helsingf. Dagbl. 1878 (315, 18 Nov.): 2, 1878 (Lindberg 1878).
- *** *Nardia japonica* Steph., Bull. Herb. Boissier 5 (2): 101, 1897 (Stephani 1897b).
- * *Nardia kamtschatica* Arnell et C.E.O.Jensen, Hedwigia 67 (1/2): 111, 1927 (Arnell 1927).⁷³
- * *Nardia leptocaulis* C.Gao, Fl. Hepat. Chin. Boreali-Orient.: 205, 1981 (Gao and Chang 1981).
- *** *Nardia lescurii* (Austin) Underw., Bull. Illinois State Lab. Nat. Hist. 2 (1): 115, 1884 (Underwood 1884). Bas.: *Alicularia lescurii* Austin, Hepat. bor.-amer.: 4, 1873 (Austin 1873).
- ** *Nardia minutifolia* Furuki, Bryol. Res. 9 (3): 73, 2006 (Furuki 2006b).
- ** *Nardia nuda* (Lindenb. et Gottsche) Váňa, Folia Geobot. Phytotax. 8 (2): 193, 1973 (Váňa 1973b). Bas.: *Jungermannia nuda* Lindenb. et Gottsche, Syn. Hepat. 5: 668, 1847 (Gottsche et al. 1847).
- *** *Nardia poeltii* Váňa, J. Hattori Bot. Lab. 36: 73, 1972 [1973] (Váňa 1972b).
- *** *Nardia scalaris* Gray, Nat. Arr. Brit. Pl. 1: 694, 1821 (Gray 1821).
- * *Nardia scalaris* var. *botryoidea* (R.M.Schust.) Váňa, Phytotaxa 76 (3): 38, 2013 (Váňa et al. 2013d). Bas.: *Nardia scalaris* subsp. *botryoidea* R.M.Schust., Hepat. Anthocerotae N. Amer. 2: 862, 1969 (Schuster 1969b).
- * *Nardia scalaris* var. *harae* (Amakawa) Váňa, Phytotaxa 76 (3): 38, 2013 (Váňa et al. 2013d). Bas.: *Nardia harae* Amakawa, J. Jap. Bot. 32 (2): 38, 1957 (Amakawa 1957c).
- *** *Nardia subclavata* (Steph.) Amakawa, J. Jap. Bot. 32 (2): 40, 1957 (Amakawa 1957c). Bas.: *Jungermannia subclavata* Steph., Sp. Hepat. (Stephani) 6: 93, 1917 (Stephani 1917a).
- *** *Nardia succulenta* (A.Rich.) Spruce, Trans. & Proc. Bot. Soc. Edinburgh 15: 519, 1885 (Spruce 1885). Bas.: *Jungermannia succulenta* A.Rich., Nov. Stirp. Pug. 4: 43, 1832 (Lehmann 1832).
- *** *Nardia unispiralis* Amakawa, J. Jap. Bot. 32 (6): 167, 1957 (Amakawa 1957a).

** Gyrothyraceae R.M.Schust.

Placement of Gyrothyraceae in Jungermanniiinae follows Shaw et al. (2015).

- ** *Gyrothyra* M.Howe, Bull. Torrey Bot. Club 24 (4): 201, 1897 (Howe 1897a).
- *** *Gyrothyra underwoodiana* M.Howe, Bull. Torrey Bot. Club 24 (4): 202, 1897 (Howe 1897a).

⁷³ *Nardia kamtschatica* may be conspecific with *Nardia assamica* (Váňa 1976c), but the type specimen could not be studied.

*** Harpanthaceae Arnell

Davis (2004) and Hentschel et al. (2006) resolved *Harpanthus* as an independent lineage which is recognized here as a monogeneric family as originally construed by Arnell (1928).

- *** *Harpanthus* Nees, Naturgesch. Eur. Leberm. 2: 351, 1836 (Nees 1836).
- *** *Harpanthus drummondii* (Taylor) Grolle, Österr. Bot. Z. 112 (3): 274, 1965 (Grolle 1965g). Bas.: *Chiloscyphus drummondii* Taylor, London J. Bot. 5: 283, 1846 (Taylor 1846a).
- *** *Harpanthus flotovianus* (Nees) Nees, Naturgesch. Eur. Leberm. 2: 353, 1836 (Nees 1836). Bas.: *Jungermannia flotoviana* Nees, Flora 16 (26): 408, 1833 (Nees 1833b).
- *** *Harpanthus scutatus* (F.Weber et D.Mohr) Spruce, Trans. Bot. Soc. Edinburgh 3 (1/4): 209, 1850 (Spruce 1850). Bas.: *Jungermannia scutata* F.Weber et D.Mohr, Bot. Taschenb. (Weber): 408, 1807 (Weber and Mohr 1807).

** Hygrobiiellaceae Konstant. et Vilnet

by N. Konstantinova

The family Hygrobiiellaceae was validated by Konstantinova et al. (2014a).

- *** *Hygrobiiella* Spruce, Cephalozia: 73, 1882 (Spruce 1882).
- ** *Hygrobiiella intermedia* Bakalin et Vilnet, Pl. Syst. Evol. 300 (10): 2286, 2014 (Bakalin and Vilnet 2014).
- *** *Hygrobiiella laxifolia* (Hook.) Spruce, Cephalozia: 74, 1882 (Spruce 1882). Bas.: *Jungermannia laxifolia* Hook., Brit. Jungermann.: tab. 59, 1813 (Hooker 1813).
- ** *Hygrobiiella squamosa* Bakalin et Vilnet, Pl. Syst. Evol. 300 (10): 2286, 2014 (Bakalin and Vilnet 2014).

*** Jackiellaceae R.M.Schust.

by J. Váňa

The monogeneric status of *Jackiella* is supported by a molecular study based on three loci by Hendry et al. (2007).

- *** *Jackiella* Schiffn., Hep. Fl. Buitenzorg: 211, 1900 (Schiffner 1900a).
- ** *Jackiella angustifolia* Herzog, Trans. Brit. Bryol. Soc. 1 (4): 296, 1950 (Herzog 1950a).
- ** *Jackiella ceylanica* Schiffn. ex Steph., Bull. Herb. Boissier (sér. 2) 8 (3): 212 (272), 1908 (Stephani 1908h).

- *** *Jackiella curvata* E.A.Hodgs. et Allison, Trans. Roy. Soc. New Zealand 85 (4): 571, 1958 (Hodgson 1958).
- *** *Jackiella javanica* Schiffn., Hep. Fl. Buitenzorg: 212, 1900 (Schiffner 1900a).
- ** *Jackiella javanica* var. *cavifolia* Schiffn., Hep. Fl. Buitenzorg: 213, 1900 (Schiffner 1900a).
- ** *Jackiella javanica* var. *cordifolia* Schiffn., Hep. Fl. Buitenzorg: 213, 1900 (Schiffner 1900a).
- ** *Jackiella renifolia* Schiffn., Denkschr. Kaiserl. Akad. Wiss., Math.-Naturwiss. Kl. 70: 218, 1900 [1901] (Schiffner 1900c).
- ** *Jackiella sinensis* (W.E.Nicholson) Grolle, Österr. Bot. Z. 111 (2/3): 186, 1964 (Grolle 1964f). Bas.: *Aplozia sinensis* W.E.Nicholson, Symb. Sin. 5: 12, 1930 (Nicholson et al. 1930).
- ** *Jackiella singaporensis* Schiffn., Denkschr. Kaiserl. Akad. Wiss., Math.-Naturwiss. Kl. 70: 218, 1900 [1901] (Schiffner 1900c).
- ** *Jackiella singaporensis* var. *philippinensis* N.Kitag., Misc. Bryol. Lichenol. 9 (1): 9, 1981 (Kitagawa 1981b).

Excluded from the genus

- * *Jackiella unica* Steph., Sp. Hepat. (Stephani) 6: 318, 1922 (Stephani 1922).⁷⁴

*** Jungermanniaceae Rchb.

by J. Váňa

The treatment of Jungermanniaceae follows Shaw et al. (2015). Many old names in *Jungermannia* are still neither synonymized nor transferred and we do not know their value. Some of them may prove to be older names of currently accepted taxa. We list those doubtful names in a separate section below.

** Delavayelloideae Grolle

- ** ***Delavayella* Steph.**, Hedwigia 33 (1): 4, 1894 (Stephani 1894a).
- ** *Delavayella serrata* Steph., Mém. Soc. Nat. Sci. Nat. Math. Cherbourg 29: 211, 1894 (Stephani 1894b).
- ** *Delavayella serrata* var. *purpurea* P.C.Chen, Feddes Repert. Spec. Nov. Regni Veg. 58: 38, 1955 (Chen 1955).
- ** ***Liochlaena* Nees**, Syn. Hepat. 2: 150, 1845 (Gottsche et al. 1845a).
- *** *Liochlaena lanceolata* Nees, Syn. Hepat. 2: 150, 1845 (Gottsche et al. 1845a).

⁷⁴ *Jackiella unica* was identified as a *Colura* species before the B herbarium burned (Grolle 1966d).

- *** *Liochlaena subulata* (A.Evans) Schljakov, Pečen. Mchi Sev. SSSR 4: 71, 1981 (Shliakov 1981). Bas.: *Jungermannia subulata* A.Evans, Trans. Connecticut Acad. Arts 8 (15): 258, 1891 (Evans 1891).
- ** **Jungermannioideae Dumort.**
- ** *Eremonotus Lindb. et Kaal. ex Pearson*, Hepat. Br. Isl. 1 (6-15): 200, 1900 (Pearson 1900).
- *** *Eremonotus myriocarpus* (Carrington) Lindb. et Kaal. ex Pearson, Hepat. Br. Isl. 1 (6-15): 201, 1900 (Pearson 1900). Bas.: *Jungermannia myriocarpa* Carrington, Hepat. Brit. Exsicc. Fasc. II: no. 96, 1879 (Carrington and Pearson 1879).
- *** *Jungermannia* L., Sp. Pl. 1: 1131, 1753 (Linnaeus 1753).⁷⁵
- *** *Jungermannia atrovirens* Dumort., Syll. Jungerm. Europ.: 51, 1831 (Dumortier 1831).
- *** *Jungermannia borealis* Damsh. et Váňa, Lindbergia 4 (1/2): 5, 1977 (Damsholt and Váňa 1977).
- * *Jungermannia erectii* Ajit P.Singh et V.Nath, Hepat. Khasi Jaintia Hills: E. Himal.: 117, 2007 (Singh and Nath 2007b).⁷⁶
- *** *Jungermannia exsertifolia* Steph., Sp. Hepat. (Stephani) 6: 86, 1917 (Stephani 1917a).
- ** *Jungermannia exsertifolia* subsp. *cordifolia* (Dumort.) Váňa, Folia Geobot. Phytotax. 8 (3): 268, 1973 (Váňa 1973c). Bas.: *Aplozia cordifolia* Dumort., Bull. Soc. Roy. Bot. Belgique 13: 59, 1874 (Dumortier 1874).
- *** *Jungermannia gollanii* Steph., Sp. Hepat. (Stephani) 6: 86, 1917 (Stephani 1917a).
- ** *Jungermannia konstantinovae* Bakalin et Vilnet, Arctoa 18: 161, 2009 [2010] (Bakalin and Vilnet 2009).
- *** *Jungermannia ovatotrigona* (Steph.) Grolle, Feddes Repert. 82 (1): 90, 1971 (Grolle 1971b). Bas.: *Jamesoniella ovatotrigona* Steph., Biblioth. Bot. 87 (2): 184, 1916 (Stephani 1916a).
- *** *Jungermannia polaris* Lindb., Öfvers. Kongl. Vetensk.-Akad. Förh. 23 (10): 560, 1866 [1867] (Lindberg 1866).
- *** *Jungermannia pumila* With., Arr. Brit. Pl., ed. 3, 3: 883, 1796 (Withering 1796).

75 *Jungermannia* was used for almost all leafy liverworts from Linnaeus (1753) and well into the 19th century. Some taxa have neither been transferred nor synonymized. As the names often are very old, they may gain priority over existing names if proven to be a synonym of something. They are listed in the “Names in genera not currently accepted” section below.

76 *Jungermannia erectii* was described on the basis of sterile material and it is not certain if it belongs in *Jungermannia* or *Solenostoma* (Váňa and Long 2009).

Taxa doubtfully belonging to the genus⁷⁷

- * *Jungermannia amentacea* Bertol., Mem. Reale Accad. Sci. Ist. Bologna (ser. 2) 1: 19, 1862 (Bertoloni 1862).
- * *Jungermannia brasiliensis* Raddi, Critt. Brasil.: 15, 1822 (Raddi 1822).⁷⁸
- * *Jungermannia chinensis* Osbeck, Dagb. Ostind. Resa: 221, 1757 (Osbeck 1757).⁷⁹
- * *Jungermannia cordata* Vill., Hist. Pl. Dauphiné (Villars) 3: 923, 1789 (Villars 1789).
- * *Jungermannia crenulata* Schmidel, Jungerm. Char.: 20, 1760 (Schmidel 1760).
- * *Jungermannia creutzeri* Kremer, Monogr. hépat. Moselle: 26, 1837 (Krémer 1837).
- * *Jungermannia digitata* C.F.W.Meissn. ex Spreng. Syst. Veg. (ed. 16) [Sprengel] 4 (2): 326, 1827 (Sprengel 1827b).
- * *Jungermannia dubioides* H.A.Mill., Phytologia 47 (4): 322, 1981 (Miller 1981). *Nom. nov. pro Jungermannia dubia* Nees, Prodr. Fl. Norfolk.: 5, 1833 (Endlicher 1833), *nom. illeg.*
- * *Jungermannia fernandeziana* Mitt., Rep. Challenger, Bot. 1 (3, 1): 85, 1884 (Mitt. 1884b).
- * *Jungermannia hexagona* Schwägr., Hist. Musc. Hepat. Prodr.: 18, 1814 (Schwägrichen 1814).
- * *Jungermannia holandriana* Kremer, Monogr. hépat. Moselle: 25, 1837 (Krémer 1837).
- * *Jungermannia incerta* Gottsche, Abh. Naturwiss. Vereins Bremen 7: 344, 1882 (Gottsche 1882).⁸⁰
- * *Jungermannia lateriflora* Hampe ex Gottsche, Mexik. Leverm.: 82, 1863 (Gottsche 1863).
- * *Jungermannia lescuriana* Austin, Rep. (Annual) Regents Univ. State New York State Cab. Nat. Hist. 19: 67, 1866 (Peck 1866).⁸¹
- * *Jungermannia longiretis* Besch. et Spruce, Bull. Soc. Bot. France (Congr. Bot.) 36: clxxxv, 1889 [1890] (Bescherelle and Spruce 1889).⁸²
- * *Jungermannia mastigophora* Spreng. Neue Entdeck. Pflanzenk. 2: 99, 1821 (Sprengel 1821).⁸³
- * *Jungermannia michelii* Mérat, Nouv. fl. env. Paris (ed. 2) 1: 219, 1821 (Mérat 1821).⁸⁴
- * *Jungermannia minima* Scop., Fl. Carniol. (ed. 2) 2: 350, 1772 (Scopoli 1772).
- * *Jungermannia odorata* With., Bot. arr. veg. Gr. Brit. 2: 693, 1776 (Withering 1776).
- * *Jungermannia peltata* Schmidel, Jungerm. Char.: 14, 1760 (Schmidel 1760).

77 *Jungermannia* was used for almost all leafy hepatics from Linnaeus (1753) and well into the 19th century. The following names have not been studied recently and are neither accepted nor synonymized. Many of them may have priority when their identity is determined.

78 *Jungermannia brasiliensis* is a taxon of uncertain status. Costa (2009) could not find any authentic material and did not know what it is.

79 *Jungermannia chinensis* may be conspecific with *Cephalozia connivens* or *Cephalozia bicuspidata*.

80 *Jungermannia incerta* is a doubtful taxon (Grolle 1995). The type specimen was burned in B.

81 *Jungermannia lescuriana* is a *Cephaloziella* species.

82 *Jungermannia longiretis* is an *Isotachis* species.

83 *Jungermannia mastigophora* is probably a *Mastigophora* species.

84 *Jungermannia michelii* is a *Fossombronia* species.

- * *Jungermannia quadridigitata* Griff., Not. pl. asiat. 2: 314, 1849 (Griffith 1849).⁸⁵
- * *Jungermannia sauteri* De Not. ex Rabenh., Hedwigia 1 (20): 121, 1857 (Rabenhorst 1857).
- * *Jungermannia secunda* Hampe ex Gottsche, Mexik. Leverm.: 82, 1863 (Gottsche 1863).
- * *Jungermannia stereocaulis* Bory, Voy. Uranie, Bot. 4: 130, 1827 (Gaudichaud 1827).⁸⁶
- * *Jungermannia submersa* Kremer, Monogr. hépat. Moselle: 36, 1837 (Krémer 1837).
- * *Jungermannia sullivantiana* Austin, Rep. (Annual) Regents Univ. State New York State Cab. Nat. Hist. 19: 66, 1866 (Peck 1866).⁸⁷
- * *Jungermannia supina* Hoffm., Deutschl. Fl., Theil 2 (Hoffm.): 86, 1795 [1796] (Hoffmann 1795).
- * *Jungermannia tenuis* Ehrh., Beitr. Naturk. (Ehrhart) 4: 45, 1789 (Ehrhart 1789).⁸⁸
- * *Jungermannia uncifolia* Steph., Hedwigia 34 (2): 51, 1895 (Stephani 1895c).
- * *Jungermannia vernicosa* Cass. ex Mérat, Nouv. fl. env. Paris (ed. 2) 1: 221, 1821 (Mérat 1821).

** Mesoptychioideae R.M.Schust.

- *** **Mesoptychia (Lindb.) A.Evans**, Ottawa Naturalist 17: 15, 1903 (Evans 1903a). Bas.: *Jungermannia* sect. *Mesoptychia* Lindb., Kongl. Svenska Vetensk.-Akad. Handl. (n.ser.) 23 (5): 39, 1889 (Lindberg and Arnell 1889).
- *** *Mesoptychia badensis* (Gottsche ex Rabenh.) L.Söderstr. et Váňa, Phytotaxa 65: 52, 2012 (Váňa et al. 2012b). Bas.: *Jungermannia badensis* Gottsche ex Rabenh., Hepat. Eur., Leberm. 9-10: no. 95, 1859 (Rabenhorst 1859).
- *** *Mesoptychia bantriensis* (Hook.) L.Söderstr. et Váňa, Phytotaxa 65: 52, 2012 (Váňa et al. 2012b). Bas.: *Jungermannia bantriensis* Hook., Brit. Jungermann.: tab. 41, 1813 (Hooker 1813).
- ** *Mesoptychia bantriensis* subsp. *wallfischii* (Ștefănuț) L.Söderstr. et Váňa, Phytotaxa 65: 52, 2012 (Váňa et al. 2012b). Bas.: *Leiocolea bantriensis* subsp. *wallfischii* Ștefănuț, Hornwort Liverwort Romania: 21, 2008 (Ștefănuț 2008).
- * *Mesoptychia chichibuensis* (Inoue) L.Söderstr. et Váňa, Phytotaxa 65: 53, 2012 (Váňa et al. 2012b). Bas.: *Lophozia chichibuensis* Inoue, J. Jap. Bot. 36 (2): 41, 1961 (Inoue 1961b).
- * *Mesoptychia collaris* (Nees) L.Söderstr. et Váňa, Phytotaxa 65: 53, 2012 (Váňa et al. 2012b). Bas.: *Jungermannia collaris* Nees, Fl. crypt. erlang.: xv, 1817 (Martius 1817).

85 *Jungermannia quadridigitata* is conspecific with *Kurzia pauciflora* in Schuster (1969b), but that species does not occur in India (Sharma and Srivastava 1993). It is probably some other *Kurzia* species.

86 *Jungermannia stereocaulis* is a doubtful taxon. Engel (1990b) did not find any type specimen and did not know what it is.

87 *Jungermannia sullivantiana* is a *Cephaloziella* species.

88 *Jungermannia tenuis* is a *Lejeunea* species.

- * *Mesoptychia fitzgeraldiae* (Paton et A.R.Perry) L.Söderstr. et Váňa, Phytotaxa 65: 53, 2012 (Váňa et al. 2012b). Bas.: *Leiocolea fitzgeraldiae* Paton et A.R.Perry, J. Bryol. 18 (3): 470, 1995 (Paton and Perry 1995).
- *** *Mesoptychia gillmanii* (Austin) L.Söderstr. et Váňa, Phytotaxa 65: 53, 2012 (Váňa et al. 2012b). Bas.: *Jungermannia gillmanii* Austin, Bull. Torrey Bot. Club 3 (3): 12, 1872 (Austin 1872).
- *** *Mesoptychia heterocolpos* (Thed. ex Hartm.) L.Söderstr. et Váňa, Phytotaxa 65: 53, 2012 (Váňa et al. 2012b). Bas.: *Jungermannia heterocolpos* Thed. ex Hartm., Handb. Skand. fl. (ed. 3): 328, 1838 (Hartman 1838).
- ** *Mesoptychia heterocolpos* var. *arctica* (S.W.Arnell) L.Söderstr. et Váňa, Phytotaxa 65: 53, 2012 (Váňa et al. 2012b). Bas.: *Leiocolea arctica* S.W.Arnell, Svensk Bot. Tidskr. 44 (2): 374, 1950 (Arnell 1950).
- ** *Mesoptychia heterocolpos* var. *harpanthoides* (Bryhn et Kaal.) L.Söderstr. et Váňa, Phytotaxa 65: 53, 2012 (Váňa et al. 2012b). Bas.: *Lophozia harpanthoides* Bryhn et Kaal., Rep. Second Norweg. Arctic Exped. 11: 31, 1906 (Bryhn 1906).
- *** *Mesoptychia igiana* (S.Hatt.) L.Söderstr. et Váňa, Phytotaxa 65: 54, 2012 (Váňa et al. 2012b). Bas.: *Lophozia igiana* S.Hatt., J. Jap. Bot. 31 (7): 201, 1956 (Hattori 1956a).
- * *Mesoptychia mamatkulovii* (Duda) L.Söderstr. et Váňa, Phytotaxa 65: 54, 2012 (Váňa et al. 2012b). Bas.: *Lophozia mamatkulovii* Duda, Trans. Brit. Bryol. Soc. 6 (1): 82, 1970 (Duda 1970).
- *** *Mesoptychia mayebarae* (S.Hatt.) L.Söderstr. et Váňa, Phytotaxa 65: 54, 2012 (Váňa et al. 2012b). Bas.: *Cephalozia mayebarae* S.Hatt., J. Hattori Bot. Lab. 3: 37, 1948 [1950] (Hattori 1948a).
- *** *Mesoptychia morrisoncola* (Horik.) L.Söderstr. et Váňa, Phytotaxa 65: 54, 2012 (Váňa et al. 2012b). Bas.: *Lophozia morrisoncola* Horik., J. Sci. Hiroshima Univ., Ser. B, Div. 2, Bot. 2: 150, 1934 (Horikawa 1934).
- * *Mesoptychia polymorpha* Stotler, Crand.-Stotl. et Bakalin, Polish Bot. J. 58 (1): 82, 2013 (Crandall-Stotler et al. 2013).
- *** *Mesoptychia rutheana* (Limpr.) L.Söderstr. et Váňa, Phytotaxa 65: 54, 2012 (Váňa et al. 2012b). Bas.: *Jungermannia rutheana* Limpr., Jahresber. Schles. Ges. Vaterl. Cult. 61: 207, 1884 (Limpricht 1884).
- ** *Mesoptychia rutheana* var. *laxa* (Schiffn. ex Burrell) L.Söderstr. et Váňa, Phytotaxa 65: 54, 2012 (Váňa et al. 2012b). Bas.: *Lophozia schultzei* var. *laxa* Schiffn. ex Burrell, J. Bot. 49: 217, 1911 (Burrell 1911).
- *** *Mesoptychia sahlbergii* (Lindb. et Arnell) A.Evans, Ottawa Naturalist 17: 15, 1903 (Evans 1903a). Bas.: *Jungermannia sahlbergii* Lindb. et Arnell, Kongl. Svenska Vetensk.-Akad. Handl. (n.ser.) 23 (5): 40, 1889 (Lindberg and Arnell 1889).
- *** *Mesoptychia subcrispa* (Herzog) L.Söderstr. et Váňa, Phytotaxa 65: 54, 2012 (Váňa et al. 2012b). Bas.: *Lophozia subcrispa* Herzog, Ann. Naturhist. Mus. Wien 53 (1): 362, 1942 [1943] (Herzog 1942b).

- *** *Mesoptychia turbinata* (Raddi) L.Söderstr. et Váňa, *Phytotaxa* 65: 55, 2012 (Váňa et al. 2012b). Bas.: *Jungermannia turbinata* Raddi, *Jungermanniogr. Etrusca*: 18, 1818 (Raddi 1818a).
- * *Mesoptychia ussuriensis* (Bakalin) L.Söderstr. et Váňa, *Phytotaxa* 65: 55, 2012 (Váňa et al. 2012b). Bas.: *Leiocolea ussuriensis* Bakalin, *Arctoa* 17: 103, 2008 [2009] (Bakalin 2008c).
- ** *Rivulariella* **D.H.Wagner**, *Phytoneuron* 2013 (10): 2, 2013 (Wagner 2013).
- ** *Rivulariella gemmipara* (A.Evans) D.H.Wagner, *Phytoneuron* 2013 (10): 2, 2013 (Wagner 2013). Bas.: *Chiloscyphus gemmiparus* A.Evans, *Bryologist* 41 (3): 50, 1938 (Evans 1938b).

** Notoscyphaceae Crand.-Stotl., Váňa et Stotler

Shaw et al. (2015) circumscribed Notoscyphaceae as monogeneric based on molecular and morphological evidence.

- *** *Notoscyphus* **Mitt.**, *Fl. vit.*: 407, 1871 [1873] (Mitten 1871).
- *** *Notoscyphus lutescens* (Lehm. et Lindenb.) Mitt., *Fl. vit.*: 407, 1871 [1873] (Mitten 1871). Bas.: *Jungermannia lutescens* Lehm. et Lindenb., *Nov. Stirp. Pug.* 4: 16, 1832 (Lehmann 1832).

** Saccogynaceae Heeg

Shaw et al. (2015) recognized Saccogynaceae as being monogeneric.

- *** *Saccogyna* **Dumort.**, *Commentat. Bot. (Dumortier)*: 113, 1822 (Dumortier 1822) nom. conserv.
- * *Saccogyna ligulata* Steph., *Bull. Herb. Boissier (sér. 2)* 8 (3): 207 (267), 1908 (Stephani 1908h).
- ** *Saccogyna subacuta* Steph., *Sp. Hepat. (Stephani)* 6: 316, 1922 (Stephani 1922).
- *** *Saccogyna viticulosa* (L.) Dumort., *Syll. Jungerm. Europ.*: 74, 1831 (Dumortier 1831). Bas.: *Jungermannia viticulosa* L., *Sp. Pl.* 1: 1131, 1753 (Linnaeus 1753).

Excluded from the genus

- * *Saccogyna tridens* Steph., *Sp. Hepat. (Stephani)* 6: 317, 1922 (Stephani 1922).⁸⁹

⁸⁹ *Saccogyna tridens* is a *Bazzania* species, but the affinity is unclear and the type specimen was burned in B (Grolle and Piippo 1984).

*** Solenostomataceae Stotler et Crand.-Stotl.

by J. Váňa

Solenostomataceae was first defined by Crandall-Stotler et al. (2009) and refined to the current circumscription in Shaw et al. (2015). The placement of *Aponardia* is provisional following Váňa et al. (2012c) and the placement of *Arctoscyphus*, *Cryptocolea* and *Diplocolea* in the family is also provisional. Taxonomic and nomenclatural notes can also be found in Váňa and Long (2009) and Váňa et al. (2012d, 2013c).

- ** *Aponardia* (R.M.Schust.) Váňa, *Phytotaxa* 65: 46, 2012 (Váňa et al. 2012c). Bas.: *Nardia* subg. *Aponardia* R.M.Schust., *Beih. Nova Hedwigia* 119: 360, 2002 (Schuster 2002b).
- *** *Aponardia huerlimannii* (Váňa et Grolle) Váňa, *Phytotaxa* 65: 46, 2012 (Váňa et al. 2012c). Bas.: *Nardia huerlimannii* Váňa et Grolle, *Österr. Bot. Z.* 118 (3): 233, 1970 (Váňa 1970c).
- ** *Arctoscyphus* Hässel, *Lindbergia* 16 (4): 133, 1990 [1992] (Hässel 1990a).
- ** *Arctoscyphus fuegiensis* (C.Massal.) Hässel, *Cryptog. Bryol. Lichénol.* 17 (3): 164, 1996 (Hässel 1996). Bas.: *Leioscyphus repens* var. *fuegiensis* C.Massal., *Nuovo Giorn. Bot. Ital.* 17 (3): 212, 1885 (Massalongo 1885).
- ** *Arctoscyphus ronsmithii* Hässel, *Lindbergia* 16 (4): 133, 1990 [1992] (Hässel 1990a).
- ** *Cryptocolea* R.M.Schust., *Amer. Midl. Naturalist* 49 (2): 414, 1953 (Schuster 1953).
- *** *Cryptocolea imbricata* R.M.Schust., *Amer. Midl. Naturalist* 49 (2): 417, 1953 (Schuster 1953).
- ** *Diplocolea Amakawa*, *J. Jap. Bot.* 37 (9): 274, 1962 (Amakawa 1962).
- *** *Diplocolea sikkimensis* Amakawa, *J. Jap. Bot.* 37 (9): 274, 1962 (Amakawa 1962).
- *** *Solenostoma* Mitt., *J. Proc. Linn. Soc., Bot.* 8 (29): 51, 1864 [1865] (Mitten 1864c) nom. conserv.⁹⁰
- ** subg. *Eucalyx* (Lindb.) Váňa, Crand.-Stotl. et Stotler, *Syst. Bot.* 40 (1): 38, 2015 (Shaw et al. 2015). Bas.: *Nardia* sect. *Eucalyx* Lindb., *Acta Soc. Sci. Fenn.* 10: 525, 1875 (Lindberg 1875).
- *** *Solenostoma bilobum* (S.Hatt. ex Amakawa) Potemkin et Nyushko, *Liverworts and Hornworts of Russia* 1: 286, 2009 (Potemkin and Sofronova 2009). Bas.: *Plectocolea biloba* S.Hatt. ex Amakawa, *J. Jap. Bot.* 32 (7): 216, 1957 (Amakawa 1957d).

90 *Solenostoma* subdivisions are following Shaw et al. (2015), but the subgeneric placement of several species is preliminary and only based on morphological characteristics. *Plectocolea* is synonymous with *Solenostoma*, but one taxon has neither been transferred nor synonymized. It is listed in the “Names in genera not currently accepted” section below.

- *** *Solenostoma emarginatum* (Amakawa) Váňa, Hentschel et Heinrichs, *Cryptog. Bryol.* 31 (2): 136, 2010 (Váňa et al. 2010a). Bas.: *Plectocolea emarginata* Amakawa, *J. Jap. Bot.* 33 (11): 340, 1958 (Amakawa 1958b).
- *** *Solenostoma flagellatum* (S.Hatt.) Váňa et D.G.Long, *Nova Hedwigia* 89 (3/4): 501, 2009 (Váňa and Long 2009). Bas.: *Plectocolea flagellata* S.Hatt., *J. Hattori Bot. Lab.* 3: 13, 1948 [1950] (Hattori 1948b).
- *** *Solenostoma hokkaidense* (Váňa) Váňa, Hentschel et Heinrichs, *Cryptog. Bryol.* 31 (2): 137, 2010 (Váňa et al. 2010a). Bas.: *Jungermannia hokkaidensis* Váňa, *J. Hattori Bot. Lab.* 35: 314, 1972 (Váňa 1972a).
- *** *Solenostoma obovatum* (Nees) C.Massal., *Epat. erb. critt. ital.*: 17, 1903 (Massalongo 1903). Bas.: *Jungermannia obovata* Nees, *Naturgesch. Eur. Leberm.* 1: 332, 1833 (Nees 1833c).
- *** *Solenostoma obscurum* (A.Evans) R.M.Schust., *Hepat. Anthocerotae N. Amer.* 2: 1013, 1969 (Schuster 1969b). Bas.: *Nardia obscura* A.Evans, *Rhodora* 21 (249): 159, 1919 (Evans 1919a).
- *** *Solenostoma schusteranum* (J.D.Godfrey et G.Godfrey) Váňa, Hentschel et Heinrichs, *Cryptog. Bryol.* 31 (2): 137, 2010 (Váňa et al. 2010a). Bas.: *Jungermannia schusterana* J.D.Godfrey et G.Godfrey, *J. Hattori Bot. Lab.* 46: 109, 1979 (Godfrey and Godfrey 1979).
- *** *Solenostoma subtilissimum* (Schiffn.) R.M.Schust., *Hepat. Anthocerotae N. Amer.* 2: 1027, 1969 (Schuster 1969b). Bas.: *Nardia subtilissima* Schiffn., *Ann. K. K. Naturhist. Hofmus.* 23: 136, 1909 (Schiffner 1909b).
- ** **subg. *Metasolenostoma* Váňa, Crand.-Stotl. et Stotler**, *Syst. Bot.* 40 (1): 38, 2015 (Shaw et al. 2015).
- *** *Solenostoma fusiforme* (Steph.) R.M.Schust., *Hepat. Anthocerotae N. Amer.* 2: 944, 1969 (Schuster 1969b). Bas.: *Nardia fusiformis* Steph., *Bull. Herb. Boissier* 5 (2): 99, 1897 (Stephani 1897b).
- *** *Solenostoma gracillimum* (Sm.) R.M.Schust., *Hepat. Anthocerotae N. Amer.* 2: 972, 1969 (Schuster 1969b). Bas.: *Jungermannia gracillima* Sm., *Engl. Bot.* 32: tab. 2238, 1811 (Smith and Sowerby 1811).
- *** *Solenostoma handelii* (Schiffn.) Müll.Frib., *Beitr. Kryptogamenfl. Schweiz* 10 (2): 38, 1947 (Müller 1947). Bas.: *Nardia handelii* Schiffn., *Ann. K. K. Naturhist. Hofmus.* 23: 135, 1909 (Schiffner 1909b).
- ** *Solenostoma lignicola* (Schiffn.) Váňa, Hentschel et Heinrichs, *Cryptog. Bryol.* 31 (2): 137, 2010 (Váňa et al. 2010a). Bas.: *Nardia lignicola* Schiffn., *Ann. K. K. Naturhist. Hofmus.* 23: 137, 1909 (Schiffner 1909b).
- *** *Solenostoma limbatifolium* (Amakawa) Váňa et D.G.Long, *Nova Hedwigia* 89 (3/4): 504, 2009 (Váňa and Long 2009). Bas.: *Jungermannia limbatifolia* Amakawa, *J. Hattori Bot. Lab.* 31: 112, 1968 (Amakawa 1968b).
- ** *Solenostoma philippinense* Váňa, *Phytotaxa* 152 (1): 43, 2013 (Váňa et al. 2013c). Based on: *Solenostoma gracillimum* subsp. *camiguinense* Bakalin, *Polish Bot. J.* 58 (1): 134, 2013 (Bakalin 2013).

- *** *Solenostoma rubrum* (Gottsche) R.M.Schust., Hepat. Anthocerotae N. Amer. 2: 975, 1969 (Schuster 1969b). Bas.: *Jungermannia rubra* Gottsche, Bot. Gaz. 13 (5): 113, 1888 (Underwood 1888).
- *** *Solenostoma suborbiculatum* (Amakawa) Váňa et D.G.Long, Nova Hedwigia 89 (3/4): 508, 2009 (Váňa and Long 2009). Bas.: *Jungermannia suborbiculata* Amakawa, J. Hattori Bot. Lab. 31: 112, 1968 (Amakawa 1968b).
- ** **subg. *Plectocolea* Mitt.**, J. Linn. Soc., Bot. 8 (31): 156, 1864 (Mitten 1864a).
- *** *Solenostoma balfourii* (Váňa) Váňa, Hentschel et Heinrichs, Cryptog. Bryol. 31 (2): 136, 2010 (Váňa et al. 2010a). Bas.: *Jungermannia balfourii* Váňa, Folia Geobot. Phytotax. 9 (3): 279, 1974 (Váňa 1974a).
- *** *Solenostoma borneense* (Amakawa) Váňa, Hentschel et Heinrichs, Cryptog. Bryol. 31 (2): 136, 2010 (Váňa et al. 2010a). Bas.: *Jungermannia borneensis* Amakawa, J. Hattori Bot. Lab. 33: 160, 1970 (Amakawa 1970).
- *** *Solenostoma callithrix* (Lindenb. et Gottsche) Steph., Bull. Herb. Boissier (sér. 2) 1 (5): 486 (48), 1901 (Stephani 1901a). Bas.: *Jungermannia callithrix* Lindenb. et Gottsche, Syn. Hepat. 5: 673, 1847 (Gottsche et al. 1847).
- *** *Solenostoma champawatense* (S.N.Srivast. et Amakawa) Váňa et D.G.Long, Nova Hedwigia 89 (3/4): 496, 2009 (Váňa and Long 2009). Bas.: *Jungermannia champawatensis* S.N.Srivast. et Amakawa, Proc. Natl. Acad. Sci. India, B 61 (2): 205, 1991 (Srivastava and Amakawa 1991).
- *** *Solenostoma comatum* (Nees) C.Gao, Fl. Hepat. Chin. Boreali-Orient.: 73, 1981 (Gao and Chang 1981). Bas.: *Jungermannia comata* Nees, Enum. Pl. Crypt. Javae: 78, 1830 (Nees 1830).
- *** *Solenostoma comatum* var. *novae-guineae* (Váňa) Váňa, Hentschel et Heinrichs, Cryptog. Bryol. 31 (2): 136, 2010 (Váňa et al. 2010a). Bas.: *Jungermannia comata* var. *novae-guineae* Váňa, J. Hattori Bot. Lab. 37: 187, 1973 (Váňa 1973a).
- *** *Solenostoma crenuliforme* (Austin) Steph., Bull. Herb. Boissier (sér. 2) 1 (5): 494 (56), 1901 (Stephani 1901a). Bas.: *Jungermannia crenuliformis* Austin, Bull. Torrey Bot. Club 3 (3): 10, 1872 (Austin 1872).
- *** *Solenostoma decolor* (Schiffn.) R.M.Schust. ex Váňa, Hentschel et Heinrichs, Cryptog. Bryol. 31 (2): 136, 2010 (Váňa et al. 2010a). Bas.: *Jungermannia decolor* Schiffn., Leberm., Forschungsr. Gazelle 4 (4): 10, 1890 (Schiffner 1890).
- *** *Solenostoma dusenii* (Steph.) Váňa, Hentschel et Heinrichs, Cryptog. Bryol. 31 (2): 136, 2010 (Váňa et al. 2010a). Bas.: *Nardia dusenii* Steph., Hedwigia 30 (5): 209, 1891 (Stephani 1891a).
- *** *Solenostoma erectum* (Amakawa) C.Gao, Fl. Hepat. Chin. Boreali-Orient.: 66, 1981 (Gao and Chang 1981). Bas.: *Plectocolea erecta* Amakawa, J. Jap. Bot. 32 (10): 307, 1957 (Amakawa 1957b).
- * *Solenostoma flagellalioides* C.Gao, Fl. Hepat. Chin. Boreali-Orient.: 205, 1981 (Gao and Chang 1981).

- *** *Solenostoma flavialbicans* (Amakawa et Grolle) Váňa et D.G.Long, *Nova Hedwigia* 89 (3/4): 501, 2009 (Váňa and Long 2009). Bas.: *Jungermannia flavialbicans* Amakawa et Grolle, *J. Hattori Bot. Lab.* 31: 108, 1968 (Amakawa 1968b).
- *** *Solenostoma fossombronioides* (Austin) R.M.Schust., *Hepat. Anthocerotae N. Amer.* 2: 1027, 1969 (Schuster 1969b). Bas.: *Jungermannia fossombronioides* Austin, *Proc. Acad. Nat. Sci. Philadelphia* 21: 220, 1869 (Austin 1869).
- *** *Solenostoma glaucum* (Amakawa) Váňa et D.G.Long, *Nova Hedwigia* 89 (3/4): 502, 2009 (Váňa and Long 2009). Bas.: *Jungermannia glauca* Amakawa, *Fl. E. Himalaya*: 511, 1966 (Hattori 1966c).
- * *Solenostoma gongshanense* (C.Gao et J.Sun) Váňa et D.G.Long, *Nova Hedwigia* 89 (3/4): 502, 2009 (Váňa and Long 2009). Bas.: *Jungermannia gongshanensis* C.Gao et J.Sun, *Bull. Bot. Res., Harbin* 27 (2): 140, 2007 (Sun and Duan 2007).
- *** *Solenostoma haskarlianum* (Nees) R.M.Schust. ex Váňa et D.G.Long, *Nova Hedwigia* 89 (3/4): 502, 2009 (Váňa and Long 2009). Bas.: *Alicularia haskarliana* Nees, *Syn. Hepat.* 1: 12, 1844 (Gottsche et al. 1844).
- *** *Solenostoma hattorianum* (Amakawa) Potemkin et Nyushko, *Liverworts and Hornworts of Russia* 1: 287, 2009 (Potemkin and Sofronova 2009). Bas.: *Plectocolea hattoriana* Amakawa, *J. Jap. Bot.* 33 (11): 341, 1958 (Amakawa 1958b).
- *** *Solenostoma hirticalyx* (Steph.) R.M.Schust. ex Váňa, Hentschel et Heinrichs, *Cryptog. Bryol.* 31 (2): 137, 2010 (Váňa et al. 2010a). Bas.: *Jungermannia hirticalyx* Steph., *Sp. Hepat. (Stephani)* 6: 87, 1917 (Stephani 1917a).
- *** *Solenostoma horikawanum* (Amakawa) Váňa, Hentschel et Heinrichs, *Cryptog. Bryol.* 31 (2): 137, 2010 (Váňa et al. 2010a). Bas.: *Plectocolea horikawana* Amakawa, *J. Jap. Bot.* 32 (7): 219, 1957 (Amakawa 1957d).
- *** *Solenostoma hyalinum* (Lyell) Mitt., *Nat. hist. Azores*: 319, 1870 (Mitten 1870). Bas.: *Jungermannia hyalina* Lyell, *Brit. Jungermann.*: tab. 63, 1814 (Hooker 1814).
- *** *Solenostoma infusum* (Mitt.) Hentschel, *Pl. Syst. Evol.* 268 (1/4): 152, 2007 (Hentschel et al. 2007a). Bas.: *Plectocolea infusca* Mitt., *Trans. Linn. Soc. London, Bot.* 3 (3): 196, 1891 (Mitten 1891).
- *** *Solenostoma infusum* var. *ovicalyx* (Steph.) Potemkin et Sofronova, *Liverworts and Hornworts of Russia* 1: 288, 2009 (Potemkin and Sofronova 2009). Bas.: *Solenostoma ovicalyx* Steph., *Sp. Hepat. (Stephani)* 6: 82, 1917 (Stephani 1917a).
- ** *Solenostoma kurilense* (Bakalin) Váňa, *Phytotaxa* 152 (1): 40, 2013 (Váňa et al. 2013c). Bas.: *Plectocolea flagellata* var. *kurilensis* Bakalin, *Arctoa* 18: 90, 2009 [2010] (Bakalin et al. 2009b).
- * *Solenostoma lixingjiangii* (C.Gao et X.L.Bai) Váňa et D.G.Long, *Nova Hedwigia* 89 (3/4): 504, 2009 (Váňa and Long 2009). Bas.: *Jungermannia lixingjiangii* C.Gao et X.L.Bai, *Philipp. Scientist* 38: 128, 2001 (Gao and Bai 2001).
- *** *Solenostoma marginatum* (S.Hatt.) R.M.Schust., *Hepat. Anthocerotae N. Amer.* 2: 983, 1969 (Schuster 1969b). Bas.: *Plectocolea marginata* S.Hatt., *J. Hattori Bot. Lab.* 3: 40, 1948 [1950] (Hattori 1948a).

- *** *Solenostoma micranthum* (Mitt.) Váňa, Hentschel et Heinrichs, Cryptog. Bryol. 31 (2): 137, 2010 (Váňa et al. 2010a). Bas.: *Plectocolea micrantha* Mitt., Fl. vit.: 405, 1871 [1873] (Mitten 1871).
- ** *Solenostoma montanum* (Steph.) Váňa, Phytotaxa 65: 44, 2012 (Váňa et al. 2012d). Bas.: *Nardia montana* Steph., Hedwigia 28 (3): 164, 1889 (Stephani 1889d).
- * *Solenostoma multicarpum* (C.Gao et J.Sun) Váňa et D.G.Long, Nova Hedwigia 89 (3/4): 505, 2009 (Váňa and Long 2009). Bas.: *Jungermannia multicarpa* C.Gao et J.Sun, Bull. Bot. Res., Harbin 27 (2): 139, 2007 (Sun and Duan 2007).
- ** *Solenostoma nilgiriense* (A.Alam, Ad.Kumar et S.C.Srivast.) Váňa et D.G.Long, Nova Hedwigia 89 (3/4): 505, 2009 (Váňa and Long 2009). Bas.: *Jungermannia nilgiriensis* A.Alam, Ad.Kumar et S.C.Srivast., Bull. Bot. Surv. India 49 (1/4): 220, 2007 (Alam et al. 2007).
- *** *Solenostoma obliquifolium* (Schiffn.) R.M.Schust. ex Váňa, Hentschel et Heinrichs, Cryptog. Bryol. 31 (2): 137, 2010 (Váňa et al. 2010a). Bas.: *Nardia obliquifolia* Schiffn., Denkschr. Kaiserl. Akad. Wiss., Math.-Naturwiss. Kl. 67: 191, 1898 (Schiffner 1898a).
- *** *Solenostoma onraedtii* (Váňa) Váňa, Hentschel et Heinrichs, Cryptog. Bryol. 31 (2): 137, 2010 (Váňa et al. 2010a). Bas.: *Jungermannia onraedtii* Váňa, Folia Geobot. Phytotax. 9 (3): 282, 1974 (Váňa 1974a).
- * *Solenostoma orbicularifolium* (Piippo ex C.Gao et Bai) Váňa, Phytotaxa 222 (2): 199, 2015 (Söderström et al. 2015d). Bas.: *Jungermannia orbicularifolia* Piippo ex C.Gao et Bai, Philipp. Scientist 38: 129, 2001 (Gao and Bai 2001).
- *** *Solenostoma otianum* (S.Hatt.) R.M.Schust., Hepat. Anthocerotae N. Amer. 2: 984, 1969 (Schuster 1969b). Bas.: *Plectocolea otiana* S.Hatt., J. Jap. Bot. 28 (6): 183, 1953 (Hattori 1953b).
- *** *Solenostoma ovalifolium* (Amakawa) Váňa, Phytotaxa 152 (1): 40, 2013 (Váňa et al. 2013c). Bas.: *Plectocolea infusca* var. *ovalifolia* Amakawa, J. Jap. Bot. 34 (4): 115, 1959 (Amakawa 1959b).
- *** *Solenostoma paroicum* (Schiffn.) R.M.Schust., Amer. Midl. Naturalist 49 (2): 402, 1953 (Schuster 1953). Bas.: *Nardia paroica* Schiffn., Lotos 58: 320, 1910 (Schiffner 1910d).
- *** *Solenostoma plagiochilaceum* (Grolle) Váňa et D.G.Long, Nova Hedwigia 89 (3/4): 505, 2009 (Váňa and Long 2009). Bas.: *Jungermannia plagiochilacea* Grolle, J. Hattori Bot. Lab. 58: 197, 1985 (Grolle 1985b).
- *** *Solenostoma polyrhizoides* (Grolle ex Amakawa) Váňa et D.G.Long, Nova Hedwigia 89 (3/4): 505, 2009 (Váňa and Long 2009). Bas.: *Jungermannia polyrhizoides* Grolle ex Amakawa, J. Hattori Bot. Lab. 29: 262, 1966 (Amakawa 1966).
- *** *Solenostoma radiculosum* Mitt., J. Linn. Soc., Bot. 8 (31): 156, 1864 [1865] (Mitten 1864a).
- *** *Solenostoma renauldii* (Steph.) Váňa, Hentschel et Heinrichs, Cryptog. Bryol. 31 (2): 137, 2010 (Váňa et al. 2010a). Bas.: *Jungermannia renauldii* Steph., Bull. Soc. Roy. Bot. Belgique, Compt. Rend. 30 (2): 201, 1891 [1892] (Stephani 1891b).

- *** *Solenostoma rigidulum* (S.Hatt.) R.M.Schust., *Hepat. Anthocerotae N. Amer.* 2: 983, 1969 (Schuster 1969b). Bas.: *Plectocolea rigidula* S.Hatt., *J. Jap. Bot.* 27 (2): 53, 1952 (Hattori 1952b).
- *** *Solenostoma rosulans* (Steph.) Váňa et D.G.Long, *Nova Hedwigia* 89 (3/4): 507, 2009 (Váňa and Long 2009). Bas.: *Nardia rosulans* Steph., *Bull. Herb. Boissier* 5 (2): 101, 1897 (Stephani 1897b).
- *** *Solenostoma rotundatum* Amakawa, *J. Jap. Bot.* 31 (2): 50, 1956 (Amakawa 1956).
- *** *Solenostoma rubripunctatum* (S.Hatt.) R.M.Schust., *Hepat. Anthocerotae N. Amer.* 2: 898, 1969 (Schuster 1969b). Bas.: *Plectocolea rubripunctata* S.Hatt., *J. Hattori Bot. Lab.* 3: 41, 1948 [1950] (Hattori 1948a).
- * *Solenostoma rupicola* (Amakawa) Váňa et D.G.Long, *Nova Hedwigia* 89 (3/4): 507, 2009 (Váňa and Long 2009). Bas.: *Jungermannia rupicola* Amakawa, *J. Hattori Bot. Lab.* 22: 23, 1960 (Amakawa 1960b).⁹¹
- *** *Solenostoma sikkimense* (Schiffn. ex Steph.) Váňa et D.G.Long, *Nova Hedwigia* 89 (3/4): 508, 2009 (Váňa and Long 2009). Bas.: *Jungermannia sikkimensis* Schiffn. ex Steph., *Sp. Hepat. (Stephani)* 6: 92, 1917 (Stephani 1917a).
- *** *Solenostoma tetragonum* (Lindenb.) R.M.Schust. ex Váňa et D.G.Long, *Nova Hedwigia* 89 (3/4): 509, 2009 (Váňa and Long 2009). Bas.: *Jungermannia tetragona* Lindenb., *Bot. Zeitung (Berlin)* 6 (25): 462, 1848 (Meissner 1848).
- * *Solenostoma tetragonum* var. *kodaikanalense* A.Alam, D.Sharma et So.Yadav, *Phytotaxonomy* 12: 70, 2012 (Alam et al. 2012).
- *** *Solenostoma torticalyx* (Steph.) C.Gao, *Fl. Hepat. Chin. Boreali-Orient.*: 69, 1981 (Gao and Chang 1981). Bas.: *Jungermannia torticalyx* Steph., *Sp. Hepat. (Stephani)* 6: 94, 1917 (Stephani 1917a).
- *** *Solenostoma truncatum* (Nees) R.M.Schust. ex Váňa et D.G.Long, *Nova Hedwigia* 89 (3/4): 509, 2009 (Váňa and Long 2009). Bas.: *Jungermannia truncata* Nees, *Enum. Pl. Crypt. Javae*: 29, 1830 (Nees 1830).
- ** *Solenostoma truncatum* var. *setulosum* (Herzog) Váňa et D.G.Long, *Nova Hedwigia* 89 (3/4): 510, 2009 (Váňa and Long 2009). Bas.: *Plectocolea setulosa* Herzog, *J. Hattori Bot. Lab.* 14: 33, 1955 (Herzog and Noguchi 1955).
- *** *Solenostoma tuberculiferum* (Herzog) Váňa, Hentschel et Heinrichs, *Cryptog. Bryol.* 31 (2): 138, 2010 (Váňa et al. 2010a). Bas.: *Aplozia tuberculifera* Herzog, *Ann. Bryol.* 5: 84, 1932 (Herzog 1932a).
- *** *Solenostoma unispire* (Amakawa) Váňa, Hentschel et Heinrichs, *Cryptog. Bryol.* 31 (2): 138, 2010 (Váňa et al. 2010a). Bas.: *Plectocolea unispiris* Amakawa, *J. Jap. Bot.* 29 (6): 178, 1954 (Amakawa 1954).
- *** *Solenostoma virgatum* (Mitt.) Váňa et D.G.Long, *Nova Hedwigia* 89 (3/4): 510, 2009 (Váňa and Long 2009). Bas.: *Plectocolea virgata* Mitt., *Trans. Linn. Soc. London, Bot.* 3 (3): 197, 1891 (Mitten 1891).

91 *Solenostoma rupicola* is conspecific with *Solenostoma rosulans* in Váňa (1975a), but accepted by Váňa and Long (2009).

- *** *Solenostoma vulcanicola* (Schiffn.) Nyushko ex Potemkin et Sofronova, Liverworts and Hornworts of Russia 1: 289, 2009 (Potemkin and Sofronova 2009). Bas.: *Nardia vulcanicola* Schiffn., Denkschr. Kaiserl. Akad. Wiss., Math.-Naturwiss. Kl. 67: 191, 1898 (Schiffner 1898a).
- * *Solenostoma zangmuui* (C.Gao et X.L.Bai) Váňa et D.G.Long, Nova Hedwigia 89 (3/4): 510, 2009 (Váňa and Long 2009). Bas.: *Jungermannia zangmuui* C.Gao et X.L.Bai, Philiph. Scientist 38: 135, 2001 (Gao and Bai 2001).
- ** **subg. *Solenostoma***
- *** *Solenostoma amoenum* (Lindenb. et Gottsche) R.M.Schust. ex Váňa, Hentschel et Heinrichs, Cryptog. Bryol. 31 (2): 136, 2010 (Váňa et al. 2010a). Bas.: *Jungermannia amoena* Lindenb. et Gottsche, Syn. Hepat. 5: 674, 1847 (Gottsche et al. 1847).
- *** *Solenostoma amplexifolium* (Hampe) Váňa et Schäf.-Verw., Acta Bot. Hung. 51 (3/4): 408, 2009 (Schäfer-Verwimp and Pócs 2009). Bas.: *Plagiochila amplexifolia* Hampe, Nov. Stirp. Pug. 7: 6, 1838 (Lehmann 1838).
- ** *Solenostoma appalachianum* R.M.Schust. ex Bakalin, Arctoa 23: 127, 2014 (Bakalin 2014). Based on: *Solenostoma appalachianum* R.M.Schust., Rhodora 60 (717): 246, 1958 (Schuster 1958a), *nom. inval.*⁹²
- *** *Solenostoma appressifolium* (Mitt.) Váňa et D.G.Long, Nova Hedwigia 89 (3/4): 494, 2009 (Váňa and Long 2009). Bas.: *Jungermannia appressifolia* Mitt., J. Proc. Linn. Soc., Bot. 5 (18): 91, 1860 [1861] (Mitten 1860c).⁹³
- *** *Solenostoma appressifolium* var. *minor* (Amakawa) Váňa et D.G.Long, Nova Hedwigia 89 (3/4): 495, 2009 (Váňa and Long 2009). Bas.: *Jungermannia clavellata* var. *minor* Amakawa, J. Hattori Bot. Lab. 26: 25, 1963 (Amakawa 1963).
- *** *Solenostoma appressifolium* var. *nigricans* (Amakawa) Váňa et D.G.Long, Nova Hedwigia 89 (3/4): 495, 2009 (Váňa and Long 2009). Bas.: *Jungermannia decolyana* var. *nigricans* Amakawa, J. Hattori Bot. Lab. 30: 185, 1967 (Amakawa 1967b).
- *** *Solenostoma ariadne* (Taylor) R.M.Schust. ex Váňa et D.G.Long, Nova Hedwigia 89 (3/4): 495, 2009 (Váňa and Long 2009). Bas.: *Jungermannia ariadne* Taylor, Nov. Stirp. Pug. 8: 9, 1844 (Lehmann 1844).
- *** *Solenostoma atrobrunneum* (Amakawa) Váňa et D.G.Long, Nova Hedwigia 89 (3/4): 495, 2009 (Váňa and Long 2009). Bas.: *Jungermannia atrobrunnea* Amakawa, J. Hattori Bot. Lab. 30: 192, 1967 (Amakawa 1967b).
- *** *Solenostoma atrorevolutum* (Grolle ex Amakawa) Váňa et D.G.Long, Nova Hedwigia 89 (3/4): 496, 2009 (Váňa and Long 2009). Bas.: *Jungermannia atrorevoluta* Grolle ex Amakawa, J. Hattori Bot. Lab. 29: 255, 1966 (Amakawa 1966).
- *** *Solenostoma atrovirens* Steph., Bull. Herb. Boissier (sér. 2) 1 (5): 493 (55), 1901 (Stephani 1901a).

92 *Solenostoma appalachianum* is placed in synonymy with *Solenostoma pyriflorum* by Schuster (1969b) but Shaw et al. (2015) shows that the North American specimens differs from the East Asiatic specimens so named.

93 *Solenostoma appressifolium* seems to be a species complex (Shaw et al. 2015).

- *** *Solenostoma baueri* (Schiffn.) Steph., Bull. Herb. Boissier (sér. 2) 1 (5): 495 (57), 1901 (Stephani 1901a). Bas.: *Aplozia baueri* Schiffn., Denkschr. Kaiserl. Akad. Wiss., Math.-Naturwiss. Kl. 67: 195, 1898 (Schiffner 1898a).
- *** *Solenostoma bengalense* (Amakawa) Váňa et D.G.Long, Nova Hedwigia 89 (3/4): 496, 2009 (Váňa and Long 2009). Bas.: *Jungermannia bengalensis* Amakawa, J. Hattori Bot. Lab. 31: 112, 1968 (Amakawa 1968b).
- ** *Solenostoma breviflorum* Kashyap et R.S.Chopra, Liverworts W. Himal. 2: 85, 1932 (Kashyap and Chopra 1932).
- *** *Solenostoma caeleste* (Inoue et Váňa) Váňa, Hentschel et Heinrichs, Cryptog. Bryol. 31 (2): 136, 2010 (Váňa et al. 2010a). Bas.: *Jungermannia caelestis* Inoue et Váňa, Stud. Cryptog. Papua N. Guinea: 16, 1979 (Inoue 1979b).
- * *Solenostoma caoi* (C.Gao et X.L.Bai) Váňa et D.G.Long, Nova Hedwigia 89 (3/4): 496, 2009 (Váňa and Long 2009). Bas.: *Jungermannia caoi* C.Gao et X.L.Bai, Philipp. Scientist 38: 152, 2001 (Gao and Bai 2001).
- *** *Solenostoma caucasicum* (Váňa) Konstant., Arctoa 1: 123, 1992 (Konstantinova et al. 1992). Bas.: *Jungermannia caucasica* Váňa, Preslia 42: 96, 1970 (Váňa 1970a).
- *** *Solenostoma chenianum* (C.Gao, Y.H.Wu et Grolle) Váňa et D.G.Long, Nova Hedwigia 89 (3/4): 496, 2009 (Váňa and Long 2009). Bas.: *Jungermannia cheniana* C.Gao, Y.H.Wu et Grolle, Nova Hedwigia 77 (1/2): 190, 2003 (Gao et al. 2003).
- *** *Solenostoma clavellatum* Mitt. ex Steph., Bull. Herb. Boissier (sér. 2) 1 (5): 491 (53), 1901 (Stephani 1901a).
- *** *Solenostoma confertissimum* (Nees) Schljakov, Novosti Sist. Nizš. Rast. 17: 239, 1980 (Shliakov 1980b). Bas.: *Jungermannia confertissima* Nees, Naturgesch. Eur. Leberm. 1: 291, 1833 (Nees 1833c).
- *** *Solenostoma coniflorum* (Schiffn.) Steph., Bull. Herb. Boissier (sér. 2) 1 (5): 497 (59), 1901 (Stephani 1901a). Bas.: *Jungermannia coniflora* Schiffn., Leberm., Forschungsgr. Gazelle 4 (4): 10, 1890 (Schiffner 1890).
- *** *Solenostoma crassulum* (Nees et Mont.) Steph., Bull. Herb. Boissier (sér. 2) 1 (5): 497 (59), 1901 (Stephani 1901a). Bas.: *Jungermannia crassula* Nees et Mont., Ann. Sci. Nat. Bot. (sér. 2) 5: 54, 1836 (Nees and Montagne 1836).
- ** *Solenostoma cryptogynum* R.M.Schust. ex J.J.Engel, Novon 17 (3): 311, 2007 (Engel 2007). Based on: *Solenostoma cryptogynum* R.M.Schust., Beih. Nova Hedwigia 119: 380, 2002 (Schuster 2002b), *nom. inval.*
- *** *Solenostoma cyclops* (S.Hatt.) R.M.Schust., Hepat. Anthocerotae N. Amer. 2: 945, 1969 (Schuster 1969b). Bas.: *Jungermannia cyclops* S.Hatt., J. Hattori Bot. Lab. 3: 5, 1948 [1950] (Hattori 1948b).
- *** *Solenostoma diversiclavellatum* (Amakawa et Grolle) R.M.Schust. ex Váňa et D.G.Long, Nova Hedwigia 89 (3/4): 501, 2009 (Váňa and Long 2009). Bas.: *Jungermannia diversiclavellata* Amakawa et Grolle, J. Hattori Bot. Lab. 31: 107, 1968 (Amakawa 1968b).
- *** *Solenostoma dulongense* Váňa et D.G.Long, Nova Hedwigia 89 (3/4): 497, 2009 (Váňa and Long 2009).

- *** *Solenostoma exsertum* (A.Evans) Steph., Bull. Herb. Boissier (sér. 2) 1 (5): 490 (52), 1901 (Stephani 1901a). Bas.: *Nardia exserta* A.Evans, Trans. Connecticut Acad. Arts 8 (15): 259, 1891 (Evans 1891).
- *** *Solenostoma faurieanum* (Beauverd) R.M.Schust., Hepat. Anthocerotae N. Amer. 2: 945, 1969 (Schuster 1969b). Bas.: *Jungermannia faurieana* Beauverd, Sp. Hepat. (Stephani) 6: 571, 1924 (Stephani 1924).
- *** *Solenostoma flagellare* (Amakawa) Váňa et D.G.Long, Nova Hedwigia 89 (3/4): 501, 2009 (Váňa and Long 2009). Bas.: *Jungermannia flagellaris* Amakawa, J. Hattori Bot. Lab. 29: 258, 1966 (Amakawa 1966).
- *** *Solenostoma flavorevolutum* (Váňa) Váňa et D.G.Long, Nova Hedwigia 89 (3/4): 501, 2009 (Váňa and Long 2009). Bas.: *Jungermannia flavorevoluta* Váňa, J. Hattori Bot. Lab. 36: 63, 1972 [1973] (Váňa 1972b).
- *** *Solenostoma grollei* (D.G.Long et Váňa) K.Feldberg, Hentschel, Bombosch, D.G.Long, Váňa et Heinrichs, Pl. Syst. Evol. 280 (3/4): 244, 2009 (Feldberg et al. 2009). Bas.: *Gottschelia grollei* D.G.Long et Váňa, J. Bryol. 29 (3): 167, 2007 (Long and Váňa 2007).
- *** *Solenostoma grosseverrucosum* (Amakawa et S.Hatt.) Váňa, Crand.-Stotl. et Stotler, Syst. Bot. 40 (1): 39, 2015 (Shaw et al. 2015). Bas.: *Horikawaella grosseverrucosa* Amakawa et S.Hatt., Bull. Univ. Mus. Univ. Tokyo 8: 216, 1975 (Hattori 1975e).
- *** *Solenostoma heterolimbatum* (Amakawa) Váňa et D.G.Long, Nova Hedwigia 89 (3/4): 503, 2009 (Váňa and Long 2009). Bas.: *Jungermannia heterolimbata* Amakawa, J. Hattori Bot. Lab. 30: 183, 1967 (Amakawa 1967b).
- *** *Solenostoma hewsoniae* (Amakawa et Grolle) R.M.Schust. ex Váňa, Hentschel et Heinrichs, Cryptog. Bryol. 31 (2): 136, 2010 (Váňa et al. 2010a). Bas.: *Jungermannia hewsoniae* Amakawa et Grolle, J. Hattori Bot. Lab. 31: 108, 1968 (Amakawa 1968b).
- *** *Solenostoma hiugaense* Amakawa, J. Jap. Bot. 31 (2): 47, 1956 (Amakawa 1956).
- *** *Solenostoma indrodayanum* (Sushil K.Singh et D.K.Singh) Váňa et D.G.Long, Nova Hedwigia 89 (3/4): 503, 2009 (Váňa and Long 2009). Bas.: *Jungermannia indrodayana* Sushil K.Singh et D.K.Singh, Cryptog. Bryol. 28 (2): 103, 2007 (Singh and Singh 2007b).
- *** *Solenostoma inundatum* (Hook.f. et Taylor) Mitt. ex Steph., Bull. Herb. Boissier (sér. 2) 1 (5): 490 (52), 1901 (Stephani 1901a). Bas.: *Jungermannia inundata* Hook.f. et Taylor, London J. Bot. 3: 559, 1844 (Hooker and Taylor 1844d).
- *** *Solenostoma javanicum* (Schiffn.) Steph., Bull. Herb. Boissier (sér. 2) 1 (5): 494 (56), 1901 (Stephani 1901a). Bas.: *Aplozia javanica* Schiffn., Denkschr. Kaiserl. Akad. Wiss., Math.-Naturwiss. Kl. 67: 193, 1898 (Schiffner 1898a).
- ** *Solenostoma kanaii* (Amakawa) Váňa et D.G.Long, Nova Hedwigia 89 (3/4): 503, 2009 (Váňa and Long 2009). Bas.: *Jungermannia kanaii* Amakawa, J. Hattori Bot. Lab. 30: 194, 1967 (Amakawa 1967b).
- *** *Solenostoma kashyapii* (S.C.Srivast., S.Srivast. et D.Sharma) Váňa et D.G.Long, Nova Hedwigia 89 (3/4): 503, 2009 (Váňa and Long 2009). Bas.: *Jungermannia*

- kashyapii* S.C.Srivast., S.Srivast. et D.Sharma, *Lindbergia* 28 (3): 131, 2003 (Srivastava et al. 2003).
- *** *Solenostoma lanigerum* (Mitt.) Váňa et D.G.Long, *Nova Hedwigia* 89 (3/4): 503, 2009 (Váňa and Long 2009). Bas.: *Jungermannia lanigera* Mitt., J. Proc. Linn. Soc., Bot. 5 (18): 91, 1860 [1861] (Mitten 1860c).
- *** *Solenostoma macrocarpum* (Schiffn. ex Steph.) Váňa et D.G.Long, *Nova Hedwigia* 89 (3/4): 504, 2009 (Váňa and Long 2009). Bas.: *Jungermannia macrocarpa* Schiffn. ex Steph., Sp. Hepat. (Stephani) 6: 87, 1917 (Stephani 1917a).
- *** *Solenostoma mamatkulovii* (Váňa et Zerov) Váňa, Hentschel et Heinrichs, *Cryptog. Bryol.* 31 (2): 137, 2010 (Váňa et al. 2010a). Bas.: *Jungermannia mamatkulovii* Váňa et Zerov, *Preslia* 49: 181, 1977 (Váňa 1977).
- * *Solenostoma microphyllum* C.Gao, *Fl. Hepat. Chin. Boreali-Orient.*: 206, 1981 (Gao and Chang 1981).
- * *Solenostoma microrevolutum* (C.Gao et X.L.Bai) Váňa et D.G.Long, *Nova Hedwigia* 89 (3/4): 505, 2009 (Váňa and Long 2009). Bas.: *Jungermannia microrevoluta* C.Gao et X.L.Bai, *Philipp. Scientist* 38: 146, 2001 (Gao and Bai 2001).
- *** *Solenostoma mildbraedii* (Steph.) R.M.Schust., *Beih. Nova Hedwigia* 119: 387, 2002 (Schuster 2002b). Bas.: *Jungermannia mildbraedii* Steph., *Wiss. Ergebn. Deut. Zentr.-Afr. Exped. (1907-08), Bot.* 2: 113, 1911 (Stephani 1911a).
- *** *Solenostoma niveum* (Grolle) R.M.Schust. ex Váňa, Hentschel et Heinrichs, *Cryptog. Bryol.* 31 (2): 137, 2010 (Váňa et al. 2010a). Bas.: *Jungermannia nivea* Grolle, *Misc. Bryol. Lichenol.* 6 (1): 1, 1971 (Grolle 1971c).
- * *Solenostoma novaezelandiae* R.M.Schust., *Beih. Nova Hedwigia* 119: 380, 2002 (Schuster 2002b).⁹⁴
- *** *Solenostoma ohbae* (Amakawa) C.Gao, *Bryofl. Xizang*: 495, 1985 (Li 1985). Bas.: *Jungermannia ohbae* Amakawa, *Bull. Univ. Mus. Univ. Tokyo* 8: 218, 1975 (Hattori 1975e).
- *** *Solenostoma orbiculatum* (Colenso) R.M.Schust., *Beih. Nova Hedwigia* 119: 380, 2002 (Schuster 2002b). Bas.: *Gymnomitrium orbiculatum* Colenso, *Trans. & Proc. New Zealand Inst.* 18: 236, 1886 (Colenso 1886b).
- *** *Solenostoma parvitextum* (Amakawa) Váňa et D.G.Long, *Nova Hedwigia* 89 (3/4): 505, 2009 (Váňa and Long 2009). Bas.: *Jungermannia parvitexta* Amakawa, *J. Hattori Bot. Lab.* 30: 187, 1967 (Amakawa 1967b).
- *** *Solenostoma patoniae* (Grolle, D.B.Schill et D.G.Long) K.Feldberg, Hentschel, Bombosch, D.G.Long, Váňa et Heinrichs, *Pl. Syst. Evol.* 280 (3/4): 244, 2009 (Feldberg et al. 2009). Bas.: *Gottschelia patoniae* Grolle, D.B.Schill et D.G.Long, *J. Bryol.* 25 (1): 3, 2003 (Grolle et al. 2003).
- *** *Solenostoma pocsii* (Váňa) Bakalin, *Arctoa* 18: 160, 2009 [2010] (Bakalin and Vilnet 2009). Bas.: *Jungermannia pocsii* Váňa, *Folia Geobot. Phytotax.* 10 (4): 365, 1975 (Váňa 1975b).

⁹⁴ *Solenostoma novaezelandiae* is possibly conspecific with *Solenostoma orbiculatum* (Engel and Glenn 2008a).

- *** *Solenostoma poeltii* (Amakawa) Váňa et D.G.Long, Nova Hedwigia 89 (3/4): 505, 2009 (Váňa and Long 2009). Bas.: *Jungermannia poeltii* Amakawa, J. Hattori Bot. Lab. 29: 258, 1966 (Amakawa 1966).
- *** *Solenostoma pseudocyclops* (Inoue) Váňa et D.G.Long, Nova Hedwigia 89 (3/4): 506, 2009 (Váňa and Long 2009). Bas.: *Jungermannia pseudocyclops* Inoue, Bull. Natl. Sci. Mus. Tokyo (n.ser.) 9 (1): 37, 1966 (Inoue 1966a).
- ** *Solenostoma pseudopyriflorum* Bakalin et Vilnet, Arctoa 18: 159, 2009 [2010] (Bakalin and Vilnet 2009).
- *** *Solenostoma purpuratum* (Mitt.) Steph., Bull. Herb. Boissier (sér. 2) 1 (5): 489 (51), 1901 (Stephani 1901a). Bas.: *Jungermannia purpurata* Mitt., J. Proc. Linn. Soc., Bot. 5 (18): 91, 1860 [1861] (Mitten 1860c).
- *** *Solenostoma pyriflorum* Steph., Sp. Hepat. (Stephani) 6: 83, 1917 (Stephani 1917a).⁹⁵
- *** *Solenostoma pyriflorum* var. *gracillimum* (Amakawa) Váňa et D.G.Long, Nova Hedwigia 89 (3/4): 506, 2009 (Váňa and Long 2009). Bas.: *Jungermannia pyriflora* var. *gracillima* Amakawa, Fl. E. Himalaya 2: 228, 1971 (Hattori 1971a).
- ** *Solenostoma pyriflorum* var. *major* (S.Hatt.) Bakalin, Arctoa 17: 230, 2008 [2009] (Bakalin 2008a). Bas.: *Jungermannia monticola* f. *major* S.Hatt., J. Hattori Bot. Lab. 3: 8, 1948 [1950] (Hattori 1948b).
- *** *Solenostoma pyriflorum* var. *minutissimum* (Amakawa) Bakalin, Arctoa 16: 208, 2007 [2008] (Bakalin 2007). Bas.: *Jungermannia pyriflora* var. *minutissima* Amakawa, J. Hattori Bot. Lab. 22: 61, 1960 (Amakawa 1960b).⁹⁶
- *** *Solenostoma raujeanum* (Grolle ex Amakawa) Váňa et D.G.Long, Nova Hedwigia 89 (3/4): 507, 2009 (Váňa and Long 2009). Bas.: *Jungermannia raujeana* Grolle ex Amakawa, J. Hattori Bot. Lab. 29: 262, 1966 (Amakawa 1966).
- *** *Solenostoma riclefi* Váňa et D.G.Long, Nova Hedwigia 89 (3/4): 507, 2009 (Váňa and Long 2009). *Nom. nov. pro Jungermannia grollei* Amakawa, J. Hattori Bot. Lab. 29: 260, 1966 (Amakawa 1966).
- *** *Solenostoma sanguinolentum* (Griff.) Steph., Bull. Herb. Boissier (sér. 2) 1 (5): 489 (51), 1901 (Stephani 1901a). Bas.: *Jungermannia sanguinolenta* Griff., Not. pl. asiat. 2: 302, 1849 (Griffith 1849).
- *** *Solenostoma schaulianum* (Steph.) Váňa et D.G.Long, Nova Hedwigia 89 (3/4): 508, 2009 (Váňa and Long 2009). Bas.: *Jungermannia schauliana* Steph., Sp. Hepat. (Stephani) 6: 90, 1917 (Stephani 1917a).
- *** *Solenostoma shimizuanum* (S.Hatt. ex Váňa) Váňa, Hentschel et Heinrichs, Cryptog. Bryol. 31 (2): 138, 2010 (Váňa et al. 2010a). Bas.: *Jungermannia shimizuana* S.Hatt. ex Váňa, J. Hattori Bot. Lab. 35: 315, 1972 (Váňa 1972a).
- *** *Solenostoma speciosum* (Horik.) Hentschel, K.Feldberg, Bombosch, D.G.Long, Váňa et Heinrichs, Pl. Syst. Evol. 280 (3/4): 244, 2009 (Feldberg et al. 2009). Bas.: *Anastrophyllum speciosum* Horik., J. Sci. Hiroshima Univ., Ser. B, Div. 2, Bot. 2: 147, 1934 (Horikawa 1934).

⁹⁵ *Solenostoma pyriflorum* is a species complex (Shaw et al. 2015).

⁹⁶ *Solenostoma pyriflorum* var. *minutissimum* was treated as a separate species, *Solenostoma rishiriense* Amakawa by Bakalin and Vilnet (2009).

- ** *Solenostoma speciosum* subsp. *villosum* (R.M.Schust.) Hentschel, K.Feldberg, Bom-bosch, D.G.Long, Váňa et Heinrichs, Pl. Syst. Evol. 280 (3/4): 246, 2009 (Feld-berg et al. 2009). Bas.: *Scaphophyllum speciosum* subsp. *villosum* R.M.Schust., Bry-ologist 101 (3): 434, 1998 (Schuster 1998b).
- *** *Solenostoma sphaerocarpum* (Hook.) Steph., Bull. Herb. Boissier (sér. 2) 1 (5): 499 (61), 1901 (Stephani 1901a). Bas.: *Jungermannia sphaerocarpa* Hook., Brit. Jung-ermann.: tab. 74, 1815 (Hooker 1815).
- *** *Solenostoma stephanii* (Schiffn.) Steph., Bull. Herb. Boissier (sér. 2) 1 (5): 496 (58), 1901 (Stephani 1901a). Bas.: *Aplozia stephanii* Schiffn., Denkschr. Kaiserl. Akad. Wiss., Math.-Naturwiss. Kl. 67: 195, 1898 (Schiffner 1898a).
- *** *Solenostoma stoloniferum* (Steph.) S.W.Arnell, Hepat. South Africa: 316, 1963 (Ar-nell 1963b). Bas.: *Nardia stolonifera* Steph., Hedwigia 31 (3): 128, 1892 (Stephani 1892d).
- *** *Solenostoma strictum* (Schiffn.) Váňa, Hentschel et Heinrichs, Cryptog. Bryol. 31 (2): 138, 2010 (Váňa et al. 2010a). Bas.: *Aplozia stricta* Schiffn., Denkschr. Kai-serl. Akad. Wiss., Math.-Naturwiss. Kl. 67: 194, 1898 (Schiffner 1898a).
- *** *Solenostoma subacutum* (Herzog) Váňa, Crand.-Stotl. et Stotler, Syst. Bot. 40 (1): 39, 2015 (Shaw et al. 2015). Bas.: *Anastrophyllum subacutum* Herzog, Ann. Bryol. 12: 75, 1939 (Herzog 1939b).
- *** *Solenostoma subrubrum* (Schiffn. ex Steph.) Váňa et D.G.Long, Nova Hedwigia 89 (3/4): 508, 2009 (Váňa and Long 2009). Bas.: *Jungermannia subrubra* Schiffn. ex Steph., Sp. Hepat. (Stephani) 6: 93, 1917 (Stephani 1917a).
- * *Solenostoma sunii* Bakalin et Vilnet, Bot. Pacifica 3 (2): 15, 2014 (Bakalin et al. 2014).
- * *Solenostoma totopapillosum* (E.A.Hodgs.) R.M.Schust., Bryologist 100 (3): 366, 1997 (Schuster 1997a). Bas.: *Jungermannia totopapillosa* E.A.Hodgs., J. Roy. Soc. New Zealand 2 (1): 111, 1972 (Hodgson 1972).⁹⁷
- *** *Solenostoma udarii* (S.C.Srivast. et P.Singh) Váňa et D.G.Long, Nova Hedwigia 89 (3/4): 510, 2009 (Váňa and Long 2009). Bas.: *Jungermannia udarii* S.C.Srivast. et P.Singh, Recent Stud. Indian Bryoph.: 152, 1995 (Srivastava and Singh 1995).
- * *Solenostoma ventroversum* (Grolle) Váňa et D.G.Long, Nova Hedwigia 89 (3/4): 510, 2009 (Váňa and Long 2009). Bas.: *Jungermannia ventroversa* Grolle, Khum-bu Himal 1 (4): 284, 1966 (Grolle 1966k).⁹⁸
- *** *Solenostoma zantenii* (Amakawa) R.M.Schust. ex Váňa et D.G.Long, Nova Hed-wigia 89 (3/4): 510, 2009 (Váňa and Long 2009). Bas.: *Jungermannia zantenii* Amakawa, J. Hattori Bot. Lab. 31: 110, 1968 (Amakawa 1968b).
- * *Solenostoma zengii* (C.Gao et X.L.Bai) Váňa et D.G.Long, Nova Hedwigia 89 (3/4): 510, 2009 (Váňa and Long 2009). Bas.: *Jungermannia zengii* C.Gao et X.L.Bai, Philipp. Scientist 38: 151, 2001 (Gao and Bai 2001).

⁹⁷ *Solenostoma totopapillosum* is possibly conspecific with *Solenostoma inundatum* (Shaw et al. 2015).

⁹⁸ *Solenostoma ventroversum* is possibly conspecific with *Solenostoma appressifolium*.

*** Southbyaceae Váňa, Crand.-Stotl., Stotler et D.G.Long

by J. Váňa

Southbyaceae has traditionally been placed in Arnelliaceae (e.g. Crandall-Stotler et al. 2009) or kept as a separate family (e.g. Vanden Berghen 1957) that has never been validated. However, it was re-established, rearranged and validated in the study by Váňa et al. (2012e).

- *** *Gongylanthus* Nees, Naturgesch. Eur. Leberm. 2: 405, 1836 (Nees 1836).
- *** *Gongylanthus duseunii* Steph., Bull. Herb. Boissier (sér. 2) 6 (5): 385 (41), 1906 (Stephani 1906a).
- *** *Gongylanthus ericetorum* (Raddi) Nees, Naturgesch. Eur. Leberm. 2: 407, 1836 (Nees 1836). Bas.: *Calypogeia ericetorum* Raddi, Jungermanniogr. Etrusca: 31, 1818 (Raddi 1818a).
- *** *Gongylanthus granatensis* (Gottsche) Steph., Bull. Herb. Boissier (sér. 2) 6 (5): 385 (41), 1906 (Stephani 1906a). Bas.: *Lindigina granatensis* Gottsche, Ann. Sci. Nat. Bot. (sér. 5) 1: 138, 1864 (Gottsche 1864).
- *** *Gongylanthus himalayensis* Grolle, Khumbu Himal 1 (4): 285, 1966 (Grolle 1966k).
- *** *Gongylanthus javanicus* Grolle, J. Jap. Bot. 40 (7): 206, 1965 (Grolle 1965d).
- *** *Gongylanthus liebmanianus* (Lindenb. et Gottsche) Steph., Bull. Herb. Boissier (sér. 2) 6 (5): 388 (44), 1906 (Stephani 1906a). Bas.: *Gymnanthe liebmaniana* Lindenb. et Gottsche, Syn. Hepat. 5: 712, 1847 (Gottsche et al. 1847).
- *** *Gongylanthus limbatus* (Herzog) Grolle et Váňa, Folia Geobot. Phytotax. 9 (2): 198, 1974 (Váňa 1974c). Bas.: *Aplozia limbata* Herzog, Beih. Bot. Centralbl. 61B (3): 561, 1942 (Herzog 1942d).
- *** *Gongylanthus muelleri* (Gottsche) Steph., Bull. Herb. Boissier (sér. 2) 6 (5): 388 (44), 1906 (Stephani 1906a). Bas.: *Lindigia muelleri* Gottsche, Mexik. Leverm.: 121, 1863 (Gottsche 1863).
- ** *Gongylanthus oniscoides* (Spruce) Steph., Bull. Herb. Boissier (sér. 2) 6 (5): 386 (42), 1906 (Stephani 1906a). Bas.: *Calypogeia oniscoides* Spruce, Trans. & Proc. Bot. Soc. Edinburgh 15: 448, 1885 (Spruce 1885).
- *** *Gongylanthus richardsii* E.W.Jones, Trans. Brit. Bryol. Soc. 4 (4): 650, 1964 (Jones 1964).
- *** *Southbya* Spruce, Ann. Mag. Nat. Hist. (ser. 2) 3 (18): 501, 1849 (Spruce 1849).
- *** *Southbya gollanii* Steph., Bull. Herb. Boissier (sér. 2) 6 (5): 381 (37), 1906 (Stephani 1906a).
- *** *Southbya nigrella* (De Not.) Henriq., Bol. Soc. Brot. 4: 244, 1886 [1887] (Henriques 1886). Bas.: *Jungermannia nigrella* De Not., Mem. Reale Accad. Sci. Torino (ser. 2) 1: 315, 1838 (De Notaris 1838).

*** *Southbya organensis* Herzog, Memoranda Soc. Fauna Fl. Fennica 25: 53, 1950 (Herzog 1950c).

*** *Southbya tophacea* (Spruce) Spruce, Ann. Mag. Nat. Hist. (ser. 2) 3 (18): 501, 1849 (Spruce 1849). Bas.: *Jungermannia tophacea* Spruce, Hep. Pyr. Exsic.: no. 23, 1847 (Spruce 1847).

** Stephaniellaceae R.M.Schust.

by J. Váňa

In the absence of molecular data, the phylogenetic affinities of *Stephaniella* and *Stephaniellidium* remain equivocal, but there is no evidence to support their placement in either the Arnelliaceae or Southbyaceae where they have been placed recently. Thus the family as construed by Schuster (2002b) is retained.

*** *Stephaniella* J.B.Jack, Hedwigia 33 (1): 11, 1894 (Jack 1894).

* *Stephaniella boliviensis* Steph., Biblioth. Bot. 87 (2): 182, 1916 (Stephani 1916a).

*** *Stephaniella hamata* Steph., Bull. Herb. Boissier (sér. 2) 1 (10): 1024 (87), 1901 (Stephani 1901c).

*** *Stephaniella paraphyllina* J.B.Jack, Hedwigia 33 (1): 11, 1894 (Jack 1894).

*** *Stephaniella rostrata* U.Schmitt, Österr. Bot. Z. 115 (2): 124, 1968 (Schmitt and Winkler 1968).

*** *Stephaniella uncifolia* S.Winkl., Österr. Bot. Z. 115 (2): 124, 1968 (Schmitt and Winkler 1968).

** *Stephaniellidium* S.Winkl. ex Grolle, Acta Bot. Fenn. 121: 38, 1983 (Grolle 1983b). Based on: *Stephaniellidium* S.Winkl., Mitt. Inst. Colombo-Alemán Invest. Ci. 3: 60, 1969 (Winkler 1969).

*** *Stephaniellidium sleumeri* (Müll.Frib.) S.Winkl. ex Grolle, Acta Bot. Fenn. 121: 38, 1983 (Grolle 1983b). Bas.: *Stephaniella sleumeri* Müll.Frib., Rev. Bryol. Lichénol. 20 (1/2): 177, 1951 (Müller 1951b).

*** Trichotemnomataceae R.M.Schust.

*** *Trichotemnoma* R.M.Schust., Nova Hedwigia 15: 440, 1968 (Schuster 1968b).

*** *Trichotemnoma corrugatum* (Steph.) R.M.Schust., Nova Hedwigia 15: 440, 1968 (Schuster 1968b). Bas.: *Blepharostoma corrugatum* Steph., Hedwigia 32 (5): 315, 1893 (Stephani 1893d).

Lophocoleineae Schljakov

*** Blepharostomataceae W.Frey et M.Stech

The recognition of Blepharostomataceae follows Frey and Stech (2008) following re-consideration of molecular and morphological data available at that time.

- *** *Blepharostoma* (Dumort.) Dumort., Recueil Observ. Jungerm.: 18, 1835 (Dumortier 1835). Bas.: *Jungermannia* sect. *Blepharostoma* Dumort., Syll. Jungerm. Europ.: 65, 1831 (Dumortier 1831).
- ** *Blepharostoma arachnoideum* M.Howe, Mem. Torrey Bot. Club 7: 140, 1899 (Howe 1899).
- ** *Blepharostoma indicum* G.Asthana, M.Saxena et Maurya, J. Bryol. 35 (4): 267, 2013 (Asthana et al. 2013).
- ** *Blepharostoma minor* Horik., Hikobia 1 (2): 104, 1951 [1952] (Horikawa 1951b).
- *** *Blepharostoma trichophyllum* (L.) Dumort., Recueil Observ. Jungerm.: 18, 1835 (Dumortier 1835). Bas.: *Jungermannia trichophylla* L., Sp. Pl. 1: 1135, 1753 (Linnaeus 1753).
- ** *Blepharostoma trichophyllum* subsp. *brevirete* (Bryhn et Kaal.) R.M.Schust., Bull. Natl. Mus. Canada 164: 16, 1959 (Schuster et al. 1959). Bas.: *Blepharostoma trichophyllum* var. *brevirete* Bryhn et Kaal., Rep. Second Norweg. Arctic Exped. 11: 46, 1906 (Bryhn 1906).

*** Brevianthaceae J.J.Engel et R.M.Schust.

by L. Söderström, J. Vaña, R. Stotler, B.J. Crandall-Stotler and J.J. Engel

The treatment of Brevianthaceae follows Söderström et al. (2013b).

- *** *Brevianthus* J.J.Engel et R.M.Schust., Phytologia 47 (4): 317, 1981 (Engel and Schuster 1981).
- *** *Brevianthus flavus* (Grolle) J.J.Engel et R.M.Schust., Phytologia 47 (4): 318, 1981 (Engel and Schuster 1981). Bas.: *Jackiella flava* Grolle, J. Hattori Bot. Lab. 33: 222, 1970 (Grolle 1970b).
- ** *Brevianthus flavus* subsp. *crenulatus* J.J.Engel, Nova Hedwigia 93 (3/4): 406, 2011 (Engel 2011).
- * *Brevianthus hypocanthidium* M.A.M.Renner et J.J.Engel, PhytoKeys 50: 46, 2015 (Renner et al. 2015).
- *** *Tetracymbaliella* Grolle, Nova Hedwigia 3 (1): 48, 1961 (Grolle 1961b).
- ** *Tetracymbaliella comptonii* (Pearson) Grolle, Rev. Bryol. Lichénol. 32 (3/4): 164, 1963 [1964] (Grolle 1963d). Bas.: *Chiloscyphus comptonii* Pearson, J. Linn. Soc., Bot. 46 (305): 23, 1922 (Pearson 1922b).
- *** *Tetracymbaliella cymbalifera* (Hook.f. et Taylor) Grolle, Nova Hedwigia 3 (1): 50, 1961 (Grolle 1961b). Bas.: *Jungermannia cymbalifera* Hook.f. et Taylor, Bot. Antarct. Voy. I (Fl. Antarct. 1): 151, 1845 (Taylor and Hooker 1845).

- *** *Tetracymbaliella decipiens* (Gottsche) Grolle, *Nova Hedwigia* 3 (1): 49, 1961 (Grolle 1961b). Bas.: *Chiloscyphus decipiens* Gottsche, *Syn. Hepat.* 2: 176, 1845 (Gottsche et al. 1845a).
- *** *Tetracymbaliella subsimplex* (Austin) J.J.Engel, *Phytotaxa* 207 (2): 185, 2015 (Engel 2015b). Bas.: *Polyotus subsimplex* Austin, *Bull. Torrey Bot. Club* 6 (7): 46, 1875 (Austin 1875c).

** Chonecoleaceae R.M.Schust. ex Grolle

- ** ***Chonecolea* Grolle**, *Rev. Bryol. Lichénol.* 25 (3/4): 294, 1956 [1957] (Grolle 1956).
- ** *Chonecolea acutiloba* (Schiffn.) R.M.Schust., *Hepat. Anthocerotae N. Amer.* 4: 321, 1980 (Schuster 1980c). Bas.: *Clasmatocolea acutiloba* Schiffn., *Österr. Akad. Wiss., Math.-Naturwiss. Kl., Denkschr.* 111: 63, 1964 (Schiffner and Arnell 1964).
- ** *Chonecolea andina* Grolle et Váňa, *J. Hattori Bot. Lab.* 48: 229, 1980 (Váňa 1980).
- ** *Chonecolea doellingeri* (Nees) Grolle, *Rev. Bryol. Lichénol.* 25 (3/4): 295, 1956 [1957] (Grolle 1956). Bas.: *Jungermannia doellingeri* Nees, *Syn. Hepat.* 1: 104, 1844 (Gottsche et al. 1844).
- ** *Chonecolea ruwenzorensis* E.W.Jones, *J. Bryol.* 13 (4): 498, 1986 (Jones 1986).
- ** *Chonecolea schusteri* Udar et Ad.Kumar, *Bryologist* 85 (3): 315, 1982 (Udar and Kumar 1982a).
- ** *Chonecolea verae* Potemkin, *Proc. int. meeting 90th anniv. Abramova*: 165, 2005 (Potemkin 2005).

** Grolleaceae Solari ex R.M.Schust.

- ** ***Grollea* R.M.Schust.**, *Nova Hedwigia* 8 (3/4): 288, 1964 (Schuster 1964b).
- ** *Grollea antheliopsis* R.M.Schust., *Nova Hedwigia* 8 (3/4): 288, 1964 (Schuster 1964b).

*** Herbertaceae Müll.Frib. ex Fulford et Hatcher

by D. Bell

- *** ***Herbertus* Gray**, *Nat. Arr. Brit. Pl.* 1: 705, 1821 (Gray 1821).⁹⁹
- *** *Herbertus aduncus* (Dicks.) Gray, *Nat. Arr. Brit. Pl.* 1: 705, 1821 (Gray 1821). Bas.: *Jungermannia adunca* Dicks., *Fasc. Pl. Crypt. Brit.* 3: 12, 1793 (Dickson 1793).

⁹⁹ *Herbertus* includes *Schisma*, but a few taxa have neither been transferred nor synonymized. They are listed in the “Names in genera not currently accepted” section below.

- ** *Herbertus arcticus* (Inoue et Steere) Schljakov, Novosti Sist. Nizš. Rast. 19: 209, 1982 (Shliakov 1982). Bas.: *Herbertus sakurarii* subsp. *arcticus* Inoue et Steere, J. Hattori Bot. Lab. 44: 266, 1978 (Steere and Inoue 1978).
- ** *Herbertus armitanus* (Steph.) H.A.Mill., J. Hattori Bot. Lab. 28: 324, 1965 (Miller 1965). Bas.: *Schisma armitanum* Steph., Sp. Hepat. (Stephani) 4: 28, 1909 (Stephani 1909d).
- ** *Herbertus asparus* Tixier, Bryophyt. Biblioth. 18: 64, 1979 (Tixier 1979a).
- *** *Herbertus bivittatus* Spruce, Trans. & Proc. Bot. Soc. Edinburgh 15: 343, 1885 (Spruce 1885).
- ** *Herbertus borealis* Crundw., Trans. Brit. Bryol. Soc. 6 (1): 41, 1970 (Crundwell 1970).
- ** *Herbertus buchii* Juslén, Ann. Bot. Fenn. 43 (6): 416, 2006 (Juslén 2006a).
- ** *Herbertus ceylanicus* (Steph.) Abeyw., Ceylon J. Sci., Biol. Sci. 2 (1): 43, 1959 (Abeywickrama 1959). Bas.: *Schisma ceylanicum* Steph., Sp. Hepat. (Stephani) 4: 22, 1909 (Stephani 1909d).
- ** *Herbertus circinatus* (Steph.) H.A.Mill., J. Hattori Bot. Lab. 28: 318, 1965 (Miller 1965). Bas.: *Schisma circinatum* Steph., Sp. Hepat. (Stephani) 4: 25, 1909 (Stephani 1909d).
- *** *Herbertus delavayi* (Steph.) Steph., Hedwigia 34 (2): 43, 1895 (Stephani 1895c). Bas.: *Schisma delavayi* Steph., Mém. Soc. Nat. Sci. Nat. Math. Cherbourg 29: 228, 1894 (Stephani 1894b).¹⁰⁰
- *** *Herbertus dicranus* (Gottsche, Lindenb. et Nees) Trevis., Mem. Reale Ist. Lombardo Sci. (Ser. 3), C. Sci. Mat. 4 (13): 397, 1877 (Trevisan 1877). Bas.: *Sendtnera dicrana* Gottsche, Lindenb. et Nees, Syn. Hepat. 2: 239, 1845 (Gottsche et al. 1845a).
- ** *Herbertus durandii* (Steph.) Herzog, Rev. Bryol. Lichénol. 11 (1): 25, 1938 [1939] (Herzog 1938a). Bas.: *Schisma durandii* Steph., Trans. Linn. Soc. London, Bot. 6 (1): 99, 1901 (Stephani 1901e).
- * *Herbertus evittatus* (Steph.) H.A.Mill., J. Hattori Bot. Lab. 28: 327, 1965 (Miller 1965). Bas.: *Schisma evittatum* Steph., Sp. Hepat. (Stephani) 6: 357, 1922 (Stephani 1922).
- ** *Herbertus gaochienii* X.Fu, Fl. Bryoph. Sin. 9: 38, 2003 (Gao 2003).
- ** *Herbertus gracilis* (Mont.) Steph., Bull. Herb. Boissier 5 (10): 842, 1897 (Stephani 1897c). Bas.: *Mastigophora gracilis* Mont., Ann. Sci. Nat. Bot. (sér. 2) 19: 254, 1843 (Montagne 1843).
- ** *Herbertus guangdongii* P.J.Lin ex Piippo, Bryobrothera 1: 206, 1992 (Lin et al. 1992).
- ** *Herbertus hawaiiensis* H.A.Mill., J. Hattori Bot. Lab. 28: 317, 1965 (Miller 1965).
- ** *Herbertus helleri* (Steph.) W.E.Nicholson, Rev. Bryol. Lichénol. 13: 143, 1942 (Nicholson 1942). Bas.: *Schisma helleri* Steph., Sp. Hepat. (Stephani) 4: 29, 1909 (Stephani 1909d).
- ** *Herbertus herpocladiioides* E.B.Scott et H.A.Mill., Bryologist 62 (2): 116, 1959 (Scott and Miller 1959).

100 *Herbertus delavayi* is a species complex that requires further studies (Bell et al. 2012). It also includes *Herbertus borealis* and may include several, partly cryptic species.

- *** *Herbertus hutchinsiae* (Gottsche et Rabenh.) A.Evans, Bull. Torrey Bot. Club 44 (4): 214, 1917 (Evans 1917c). Bas.: *Sendtnera adunca* var. *hutchinsiae* Gottsche et Rabenh., Hepat. Eur., Leberm. 21-22: no. 210, 1862 (Rabenhorst 1862).
- *** *Herbertus juniperoideus* (Sw.) Grolle, Rev. Bryol. Lichénol. 30 (1/2): 80, 1961 (Grolle 1961a). Bas.: *Jungermannia juniperoidea* Sw., Prodr. (Swartz): 144, 1788 (Swartz 1788).¹⁰¹
- *** *Herbertus juniperoideus* subsp. *acanthelii* (Spruce) K.Feldberg et Heinrichs, Bot. J. Linn. Soc. 151: 326, 2006 (Feldberg and Heinrichs 2006). Bas.: *Herbertus acanthelii* Spruce, Trans. & Proc. Bot. Soc. Edinburgh 15: 341, 1885 (Spruce 1885).
- *** *Herbertus juniperoideus* subsp. *pensilis* (Taylor) K.Feldberg et Heinrichs, Bot. J. Linn. Soc. 151: 329, 2006 (Feldberg and Heinrichs 2006). Bas.: *Sendtnera pensilis* Taylor, London J. Bot. 5: 372, 1846 (Taylor 1846b).
- ** *Herbertus kurzii* (Steph.) R.S.Chopra, J. Indian Bot. Soc. 22: 247, 1943 (Chopra 1943). Bas.: *Schisma kurzii* Steph., Sp. Hepat. (Stephani) 4: 24, 1909 (Stephani 1909d).
- ** *Herbertus leratii* (Steph.) H.A.Mill., J. Hattori Bot. Lab. 28: 327, 1965 (Miller 1965). Bas.: *Schisma leratii* Steph., Sp. Hepat. (Stephani) 6: 360, 1922 (Stephani 1922).
- ** *Herbertus lonchobasis* H.A.Mill., J. Hattori Bot. Lab. 28: 306, 1965 (Miller 1965).
- ** *Herbertus longifissus* Steph., Hedwigia 34 (2): 44, 1895 (Stephani 1895c).
- ** *Herbertus longispinus* J.B.Jack et Steph., Hedwigia 31 (1): 15, 1892 (Jack and Stephani 1892).
- ** *Herbertus mauritianus* N.G.Hodgetts, J. Bryol. 30 (4): 247, 2008 (Hodgetts 2008).
- *** *Herbertus norenius* D.G.Long, D.Bell et H.H.Blom, Molec. Ecol. Res. 12: 44, 2012 (Bell et al. 2012).
- ** *Herbertus oldfieldianus* (Steph.) Rodway, Tasm. Bryoph.: 72, 1917 (Rodway 1917b). Bas.: *Schisma oldfieldianum* Steph., Sp. Hepat. (Stephani) 4: 20, 1909 (Stephani 1909d).
- ** *Herbertus pilifer* Schiffn., Nova Acta Acad. Caes. Leop.-Carol. German. Nat. Cur. 60 (2): 252, 1893 (Schiffner 1893a).
- ** *Herbertus pocsii* N.G.Hodgetts, J. Bryol. 30 (4): 249, 2008 (Hodgetts 2008).
- ** *Herbertus pumilus* Steph., Hedwigia 34 (2): 44, 1895 (Stephani 1895c).
- ** *Herbertus ramosus* (Steph.) H.A.Mill., J. Hattori Bot. Lab. 28: 314, 1965 (Miller 1965). Bas.: *Schisma ramosum* Steph., Sp. Hepat. (Stephani) 4: 23, 1909 (Stephani 1909d).
- ** *Herbertus runcinatus* (Taylor) Trevis., Mem. Reale Ist. Lombardo Sci. (Ser. 3), C. Sci. Mat. 4 (13): 397, 1877 (Trevisan 1877). Bas.: *Sendtnera runcinata* Taylor, London J. Bot. 5: 372, 1846 (Taylor 1846b).
- *** *Herbertus sendtneri* (Nees) Lindb., Hepat. Scand. Exsicc.: no. 4, 1874 (Lindberg and Lackström 1874). Bas.: *Schisma sendtneri* Nees, Naturgesch. Eur. Leberm. 3: 575, 1838 (Nees 1838b).
- ** *Herbertus spicatus* N.G.Hodgetts, J. Bryol. 30 (4): 244, 2008 (Hodgetts 2008).

101 *Herbertus juniperoideus* is here treated with two subspecies, but they may deserve species rank instead.

- *** *Herbertus stramineus* (Dumort.) Trevis., Mem. Reale Ist. Lombardo Sci. (Ser. 3), C. Sci. Mat. 4 (13): 397, 1877 (Trevisan 1877). Bas.: *Schisma stramineum* Dumort., Syll. Jungerm. Europ.: 77, 1831 (Dumortier 1831).
- ** *Herbertus streimannii* M.L.So, Syst. Bot. 28 (1): 13, 2003 (So 2003).
- *** *Herbertus tenuis* A.Evans, Bull. Torrey Bot. Club 44 (4): 219, 1917 (Evans 1917c).
- ** *Herbertus udarii* D.Kumar et N.Manocha, Geophytology 29 (1/2): 105, 1999 [2000] (Kumar and Manocha 1999).

Excluded from the genus

- * *Herbertus subrotundatus* X.Fu et Y.J.Yi, Acta Phytotax. Sin. 39 (1): 89, 2001 (Yi et al. 2001).¹⁰²
- *** ***Triandrophyllum Fulford et Hatcher***, Bryologist 64 (4): 349, 1961 [1962] (Fulford and Hatcher 1961). Based on: *Triandrophyllum* Fulford et Hatcher, Bryologist 61 (4): 277, 1958 [1959] (Fulford and Hatcher 1958).
- *** *Triandrophyllum eophyllum* (R.M.Schust.) Gradst., Mem. New York Bot. Gard. 86: 104, 2001 (Gradstein et al. 2001a). Bas.: *Olgantha eophylla* R.M.Schust., Nova Hedwigia 63 (3/4): 535, 1996 (Schuster 1996b).
- ** *Triandrophyllum fernandezense* (S.W.Arnell) Grolle ex Fulford et Hatcher, Bryologist 64 (4): 351, 1961 [1962] (Fulford and Hatcher 1961). Bas.: *Acromastigum fernandezense* S.W.Arnell, Ark. Bot. (n.ser.) 4 (1): 10, 1957 (Arnell 1957b).
- ** *Triandrophyllum heterophyllum* (Steph.) Grolle, J. Jap. Bot. 39 (8): 238, 1964 (Grolle 1964g). Bas.: *Mastigophora heterophylla* Steph., Sp. Hepat. (Stephani) 6: 367, 1922 (Stephani 1922).
- *** *Triandrophyllum subtrifidum* (Hook.f. et Taylor) Fulford et Hatcher, Bryologist 64 (4): 350, 1961 [1962] (Fulford and Hatcher 1961). Bas.: *Jungermannia subtrifida* Hook.f. et Taylor, London J. Bot. 3: 579, 1844 (Hooker and Taylor 1844c).
- ** *Triandrophyllum subtrifidum* var. *trifidum* (Gottsche) Solari, Bol. Soc. Argent. Bot. 15 (2/3): 201, 1973 (Solari 1973). Bas.: *Sendtnera trifida* Gottsche, Ann. Sci. Nat. Bot. (sér. 5) 1: 142, 1864 (Gottsche 1864).
- ** *Triandrophyllum symmetricum* J.J.Engel, Haussknechtia, Beih. 9: 115, 1999 (Engel 1999b).

*** Lepicoleaceae R.M.Schust.

by M. von Konrat

Lepicoleaceae has conventionally been considered a monogeneric family only containing *Lepicolea* (e.g. Crandall-Stotler et al. 2009). However, we expand Lepicoleaceae here to include the monogeneric family Vetaformaceae. A number of molecular analy-

¹⁰² *Herbertus subrotundus* does not belong in *Herbertus* (Juslén 2006a), but it is unclear where it belongs.

ses have shown that *Vetaforma dusenii* is sister to *Lepicolea* (e.g. He-Nygrén et al. 2006, Juslén 2006b) together forming a robust clade.

- *** ***Lepicolea Dumort.***, Recueil Observ. Jungerm.: 20, 1835 (Dumortier 1835).
- *** *Lepicolea attenuata* (Mitt.) Steph., J. Linn. Soc., Bot. 29 (201): 276, 1892 (Stephani 1892b). Bas.: *Sendtnera attenuata* Mitt., Bot. antarct. voy. II (Fl. Nov.-Zel. 2): 153, 1854 (Mitten 1854).
- *** *Lepicolea magellanica* (Gola) Solari, Lindbergia 9 (2): 86, 1983 (Solari 1983b). Bas.: *Lepicolea scolopendra* var. *magellanica* Gola, Nuovo Giorn. Bot. Ital. (n.ser.) 29 (1/4): 170, 1922 [1923] (Gola 1922).
- *** *Lepicolea norrisii* Piippo, Ann. Bot. Fenn. 25 (1): 55, 1988 (Piippo 1988).
- *** *Lepicolea ochroleuca* (Spreng.) Spruce, Trans. & Proc. Bot. Soc. Edinburgh 15: 345, 1885 (Spruce 1885). Bas.: *Jungermannia ochroleuca* Spreng. Syst. Veg. (ed. 16) [Sprengel] 4 (2): 325, 1827 (Sprengel 1827b).
- *** *Lepicolea pruinosa* (Taylor) Spruce, Trans. & Proc. Bot. Soc. Edinburgh 15: 345, 1885 (Spruce 1885). Bas.: *Sendtnera pruinosa* Taylor, London J. Bot. 5: 373, 1846 (Taylor 1846b).
- *** *Lepicolea ramentifissa* Herzog, Biblioth. Bot. 88: 30, 1920 [1921] (Herzog 1920).
- *** *Lepicolea rara* (Steph.) Grolle, Nova Hedwigia 16: 152, 1968 (Grolle 1968d). Bas.: *Lepidozia rara* Steph., Sp. Hepat. (Stephani) 3: 618, 1909 (Stephani 1909a).¹⁰³
- *** *Lepicolea rigida* (De Not.) E.B.Scott, Nova Hedwigia 2: 148, 1960 (Scott 1960). Bas.: *Sendtnera rigida* De Not., Mem. Reale Accad. Sci. Torino (ser. 2) 16: 229, 1857 (De Notaris 1857).
- *** *Lepicolea scolopendra* (Hook.) Dumort. ex Trevis., Mem. Reale Ist. Lombardo Sci. (Ser. 3), C. Sci. Mat. 4 (13): 398, 1877 (Trevisan 1877). Bas.: *Jungermannia scolopendra* Hook., Musci Exot. 1: tab. 40, 1818 (Hooker 1818).
- *** *Lepicolea yakusimensis* (S.Hatt.) S.Hatt., J. Hattori Bot. Lab. 10: 42, 1953 (Hattori 1953c). Bas.: *Lepicolea scolopendra* var. *yakusimensis* S.Hatt., J. Hattori Bot. Lab. 2: 9, 1947 [1948] (Hattori 1947b).
- *** ***Vetaforma Fulford et J.Taylor***, Nova Hedwigia 4 (1/2): 81, 1962 (Fulford 1962b).
- *** *Vetaforma dusenii* (Steph.) Fulford et J.Taylor, Nova Hedwigia 4 (1/2): 82, 1962 (Fulford 1962b). Bas.: *Lepidozia dusenii* Steph., Bih. Kongl. Svenska Vetensk.-Akad. Handl. 26 (III, 6): 52, 1900 (Stephani 1900b).

*** Lepidoziaceae Limpr.

by E.D. Cooper

The classification within Lepidoziaceae is in a state of flux. The treatment provided here follows the interim classification proposed by Cooper (2013) based on recent molecular phylogenetic studies (Heslewood and Brown 2007, Cooper et al. 2011, 2012a, 2012b)

¹⁰³ *Lepicolea rara* is possibly a species complex and warrants further investigation (Schuster 2000a).

incorporating nomenclatural changes from Cooper et al. (2013). Several higher taxa are unlikely to represent monophyletic units, but the phylogenetic data currently available are insufficient to re-circumscribe the doubtful subfamilies and genera (Cooper 2013). Infrageneric taxa have been retained where phylogenetic data are absent or inconclusive.

** *Meinungeria* Frank Müll., Bryologist 110 (3): 494, 2007 (Müller 2007).

** *Meinungeria mouensis* Frank Müll., Bryologist 110 (3): 494, 2007 (Müller 2007).

****Bazzanioideae** Rodway

*** *Acromastigum* A.Evans, Bull. Torrey Bot. Club 27 (3): 103, 1900 (Evans 1900b).¹⁰⁴

** **subg. *Acromastigum***

*** *Acromastigum caledonicum* (Steph.) Grolle, Österr. Bot. Z. 111 (2/3): 243, 1964 (Grolle 1964h). Bas.: *Acolea caledonica* Steph., Nova Caledonia, Bot. 1: 19, 1914 (Stephani 1914c).

*** *Acromastigum cavifolium* R.M.Schust., J. Hattori Bot. Lab. 26: 257, 1963 (Schuster 1963b).

** *Acromastigum herzogii* Grolle, Österr. Bot. Z. 111 (2/3): 250, 1964 (Grolle 1964h).

*** *Acromastigum homodictyon* (Herzog) Grolle, Österr. Bot. Z. 111 (2/3): 245, 1964 (Grolle 1964h). Bas.: *Acromastigum integrifolium* var. *homodictyon* Herzog, Ark. Bot. (n.ser.) 3 (3): 44, 1953 (Herzog 1953a).

** *Acromastigum integrifolium* (Austin) A.Evans, Bull. Torrey Bot. Club 27 (3): 103, 1900 (Evans 1900b). Bas.: *Mastigobryum integrifolium* Austin, Bot. Bull. (Hanover) 1 (7): 32, 1876 (Austin 1876b).

*** *Acromastigum stellare* N.Kitag., Acta Phytotax. Geobot. 36 (4/6): 109, 1985 (Kitagawa 1985).

** *Acromastigum stenophyllum* R.M.Schust., Nova Hedwigia 15: 465, 1968 (Schuster 1968b).

*** *Acromastigum verticale* (Steph.) E.A.Hodgs., Trans. Roy. Soc. New Zealand 82 (1): 18, 1954 (Hodgson 1954). Bas.: *Bazzania verticalis* Steph., Hedwigia 32 (4): 214, 1893 (Stephani 1893c).

** **subg. *Inaequilatera* (Schiffn.) Grolle**, J. Hattori Bot. Lab. 44: 2, 1978 (Grolle 1978b). Bas.: *Bazzania* sect. *Inaequilaterae* Schiffn., Hepat. (Engl.-Prantl): 101, 1893 (Schiffner 1893b).

*** *Acromastigum adaptatum* Hürl., Bauhinia 7 (4): 263, 1983 (Hürlimann 1983).

*** *Acromastigum anisostomum* (Lehm. et Lindenb.) A.Evans, Ann. Bryol., Suppl. 3: 48, 1934 (Evans 1934). Bas.: *Jungermannia anisostoma* Lehm. et Lindenb., Nov. Stirp. Pug. 6: 57, 1834 (Lehmann 1834).

¹⁰⁴ *Acromastigum* is here divided into two subgenera which are supported by recent molecular studies (Heslewood and Brown 2007, Cooper et al. 2011).

- ** *Acromastigum anisostomum* var. *minutum* E.A.Hodgs., Trans. Roy. Soc. New Zealand, Bot. 3 (4): 71, 1965 (Hodgson 1965).
- ** *Acromastigum aurescens* A.Evans, Ann. Bryol., Suppl. 3: 45, 1934 (Evans 1934).
- ** *Acromastigum bancanum* (Sande Lac.) A.Evans, Ann. Bryol., Suppl. 3: 20, 1934 (Evans 1934). Bas.: *Mastigobryum bancanum* Sande Lac., Ann. Mus. Bot. Lugduno-Batavi 1: 301, 1864 (Sande Lacoste 1864).
- ** *Acromastigum brotheri* (Steph.) A.Evans, Ann. Bryol., Suppl. 3: 70, 1934 (Evans 1934). Bas.: *Mastigobryum brotheri* Steph., Sp. Hepat. (Stephani) 3: 536, 1909 (Stephani 1909a).
- ** *Acromastigum capillare* (Steph.) A.Evans, Ann. Bryol., Suppl. 3: 37, 1934 (Evans 1934). Bas.: *Mastigobryum capillare* Steph., Sp. Hepat. (Stephani) 6: 457, 1924 (Stephani 1924).
- *** *Acromastigum colensoanum* (Mitt.) A.Evans ex Reimers, Hedwigia 73 (3/4): 142, 1933 (Reimers 1933). Bas.: *Mastigobryum colensoanum* Mitt., Bot. antarct. voy. II (Fl. Nov.-Zel. 2): 147, 1854 (Mitten 1854).
- *** *Acromastigum cunninghamii* (Steph.) A.Evans, Ann. Bryol., Suppl. 3: 106, 1934 (Evans 1934). Bas.: *Bazzania cunninghamii* Steph., Hedwigia 32 (4): 205, 1893 (Stephani 1893c).
- ** *Acromastigum curtilobum* A.Evans, Ann. Bryol., Suppl. 3: 97, 1934 (Evans 1934).
- *** *Acromastigum divaricatum* (Nees) A.Evans ex Reimers, Hedwigia 73 (3/4): 142, 1933 (Reimers 1933). Bas.: *Mastigobryum divaricatum* Nees, Syn. Hepat. 2: 219, 1845 (Gottsche et al. 1845a).
- ** *Acromastigum echinatiforme* (De Not.) A.Evans, Ann. Bryol., Suppl. 3: 64, 1934 (Evans 1934). Bas.: *Mastigobryum echinatiforme* De Not., Epat. Borneo: 38, 1874 (De Notaris 1874).
- * *Acromastigum echinatum* (Gottsche) A.Evans, Ann. Bryol., Suppl. 3: 147, 1934 (Evans 1934). Bas.: *Mastigobryum echinatum* Gottsche, Syn. Hepat. 2: 218, 1845 (Gottsche et al. 1845a).¹⁰⁵
- *** *Acromastigum exiguum* (Steph.) A.Evans, Ann. Bryol., Suppl. 3: 75, 1934 (Evans 1934). Bas.: *Mastigobryum exiguum* Steph., Hedwigia 25 (1): 6, 1886 (Stephani 1886e).
- ** *Acromastigum exile* (Lindenb.) A.Evans, Ann. Bryol., Suppl. 3: 24, 1934 (Evans 1934). Bas.: *Mastigobryum exile* Lindenb., Syn. Hepat. 2: 217, 1845 (Gottsche et al. 1845a).
- *** *Acromastigum filum* (Steph.) A.Evans, Ann. Bryol., Suppl. 3: 31, 1934 (Evans 1934). Bas.: *Bazzania filum* Steph., Hedwigia 32 (4): 206, 1893 (Stephani 1893c).
- *** *Acromastigum filum* var. *papillosum* N.Kitag., Acta Phytotax. Geobot. 36 (4/6): 112, 1985 (Kitagawa 1985).
- ** *Acromastigum fimbriatum* (Steph.) A.Evans, Ann. Bryol., Suppl. 3: 153, 1934 (Evans 1934). Bas.: *Mastigobryum fimbriatum* Steph., Sp. Hepat. (Stephani) 3: 538, 1909 (Stephani 1909a).

105 *Acromastigum echinatum* may be conspecific with *Acromastigum inaequilaterum* since all specimens identified by Piippo et al. (2002) belong there, but she did not see the type specimen.

- ** *Acromastigum furcatifolium* (Steph.) E.A.Br., Phytotaxa 65: 58, 2012 (Brown et al. 2012). Bas.: *Lepidozia furcatifolia* Steph., J. & Proc. Roy. Soc. New South Wales 48 (1/2): 112, 1914 (Stephani and Watts 1914).
- *** *Acromastigum inaequilaterum* (Lehm. et Lindenb.) A.Evans, Ann. Bryol., Suppl. 3: 129, 1934 (Evans 1934). Bas.: *Jungermannia inaequilatera* Lehm. et Lindenb., Nov. Stirp. Pug. 6: 56, 1834 (Lehmann 1834).
- ** *Acromastigum interstisiale* E.A.Br. et M.A.M.Renner, Telopea 17: 268, 2014 (Brown and Renner 2014).
- ** *Acromastigum laetevirens* (Sande Lac. ex Steph.) A.Evans, Ann. Bryol., Suppl. 3: 94, 1934 (Evans 1934). Bas.: *Mastigobryum laetevirens* Sande Lac. ex Steph., Hedwigia 25 (4): 133, 1886 (Stephani 1886b).
- ** *Acromastigum laevigatum* A.Evans, Ann. Bryol., Suppl. 3: 101, 1934 (Evans 1934).
- ** *Acromastigum linganum* (De Not.) A.Evans, Ann. Bryol., Suppl. 3: 118, 1934 (Evans 1934). Bas.: *Mastigobryum linganum* De Not., Epat. Borneo: 37, 1874 (De Notaris 1874).
- ** *Acromastigum lobuliferum* A.Evans, Ann. Bryol., Suppl. 3: 157, 1934 (Evans 1934).
- ** *Acromastigum longirete* Grolle, J. Hattori Bot. Lab. 44: 11, 1978 (Grolle 1978b).
- *** *Acromastigum mooreanum* (Steph.) E.A.Hodgs., Trans. Roy. Soc. New Zealand 82 (1): 19, 1954 (Hodgson 1954). Bas.: *Bazzania mooreana* Steph., Hedwigia 33 (1): 1, 1894 (Stephani 1894a).
- *** *Acromastigum moratii* N.Kitag., Acta Phytotax. Geobot. 36 (4/6): 119, 1985 (Kitagawa 1985).
- ** *Acromastigum obliquatum* (Mitt.) A.Evans, Ann. Bryol., Suppl. 3: 110, 1934 (Evans 1934). Bas.: *Bazzania obliquata* Mitt., Hedwigia 32 (4): 211, 1893 (Stephani 1893c).
- ** *Acromastigum tenax* (Steph.) A.Evans, Ann. Bryol., Suppl. 3: 41, 1934 (Evans 1934). Bas.: *Mastigobryum tenax* Steph., Sp. Hepat. (Stephani) 6: 483, 1924 (Stephani 1924).
- Incertae sedis***
- ** *Acromastigum fumosum* E.A.Br. et M.A.M.Renner, Telopea 17: 274, 2014 (Brown and Renner 2014).
- ** *Acromastigum leptophyllum* Herzog, Trans. Brit. Bryol. Soc. 1 (4): 309, 1950 (Herzog 1950a).
- *** *Acromastigum marginatum* E.A.Hodgs., Trans. Roy. Soc. New Zealand 82 (1): 22, 1954 (Hodgson 1954).
- ** *Acromastigum microstictum* A.Evans, Ann. Bryol., Suppl. 3: 115, 1934 (Evans 1934).
- ** *Acromastigum prismaticale* E.A.Br. et M.A.M.Renner, Telopea 17: 281, 2014 (Brown and Renner 2014).
- ** *Acromastigum pusillum* N.Kitag., Acta Phytotax. Geobot. 36 (4/6): 116, 1985 (Kitagawa 1985).
- ** *Acromastigum rigidum* R.M.Schust., Nova Hedwigia 64 (3/4): 617, 1997 (Schuster 1997b).
- ** *Acromastigum subechinatiforme* Hürl., Bauhinia 7 (4): 266, 1983 (Hürlimann 1983).

- *** *Bazzania* Gray, Nat. Arr. Brit. Pl. 1: 704, 1821 (Gray 1821) nom. conserv. ¹⁰⁶
- *** *Bazzania acanthostipa* Spruce, Trans. & Proc. Bot. Soc. Edinburgh 15: 381, 1885 (Spruce 1885).
- *** *Bazzania accreta* (Lehm. et Lindenb.) Trevis., Mem. Reale Ist. Lombardo Sci. (Ser. 3), C. Sci. Mat. 4 (13): 414, 1877 (Trevisan 1877). Bas.: *Mastigobryum accretum* Lehm. et Lindenb., Syn. Hepat. 2: 222, 1845 (Gottsche et al. 1845a).
- ** *Bazzania acinaciformis* Steph., Akad. Wiss. Wien, Math.-Naturwiss. Kl., Denkschr. 81: 290, 1907 (Stephani 1907a).
- ** *Bazzania acuminata* (Lindenb. et Gottsche) Trevis., Mem. Reale Ist. Lombardo Sci. (Ser. 3), C. Sci. Mat. 4 (13): 414, 1877 (Trevisan 1877). Bas.: *Mastigobryum acuminatum* Lindenb. et Gottsche, Syn. Hepat. 5: 719, 1847 (Gottsche et al. 1847).
- ** *Bazzania acutifolia* (Steph.) Schiffn., Consp. Hepat. Arch. Ind.: 147, 1898 (Schiffner 1898b). Bas.: *Mastigobryum acutifolium* Steph., Hedwigia 24 (5): 214, 1885 (Stephani 1885a).
- *** *Bazzania adnexa* (Lehm. et Lindenb.) Trevis., Mem. Reale Ist. Lombardo Sci. (Ser. 3), C. Sci. Mat. 4 (13): 414, 1877 (Trevisan 1877). Bas.: *Jungermannia adnexa* Lehm. et Lindenb., Nov. Stirp. Pug. 4: 58, 1832 (Lehmann 1832).
- ** *Bazzania adnexa* var. *aucklandica* (Lindenb. et Gottsche) J.J.Engel et G.L.Merr., Bryologist 97 (3): 319, 1994 (Engel and Smith Merrill 1994). Bas.: *Mastigobryum novae-hollandiae* f. *aucklandicum* Lindenb. et Gottsche, Sp. Hepat. (Lindenberg) 8-11: 33, 1851 (Lindenberg and Gottsche 1851b).
- *** *Bazzania affinis* (Lindenb. et Gottsche) Trevis., Mem. Reale Ist. Lombardo Sci. (Ser. 3), C. Sci. Mat. 4 (13): 415, 1877 (Trevisan 1877). Bas.: *Mastigobryum affine* Lindenb. et Gottsche, Syn. Hepat. 5: 720, 1847 (Gottsche et al. 1847).
- ** *Bazzania albifolia* Horik., J. Sci. Hiroshima Univ., Ser. B, Div. 2, Bot. 2: 195, 1934 (Horikawa 1934).
- ** *Bazzania ambigua* (Lindenb.) Trevis., Mem. Reale Ist. Lombardo Sci. (Ser. 3), C. Sci. Mat. 4 (13): 414, 1877 (Trevisan 1877). Bas.: *Mastigobryum ambiguum* Lindenb., Syn. Hepat. 2: 217, 1845 (Gottsche et al. 1845a).
- *** *Bazzania amblyphylla* Meagher, Nova Hedwigia 92 (3/4): 487, 2011 (Meagher 2011).
- ** *Bazzania aneityensis* (Steph.) Tixier, Bull. Mus. Natl. Hist. Nat. (Sér. 3), Bot. 10 (190): 80, 1973 (Tixier 1973d). Bas.: *Mastigobryum aneityense* Steph., J. & Proc. Roy. Soc. New South Wales 48 (1/2): 121, 1914 (Stephani and Watts 1914).
- ** *Bazzania angusta* (Steph.) Herzog, Trans. Brit. Bryol. Soc. 1 (4): 307, 1950 (Herzog 1950a). Bas.: *Mastigobryum angustum* Steph., Sp. Hepat. (Stephani) 6: 453, 1924 (Stephani 1924).
- ** *Bazzania angustifalcata* Herzog, Feddes Repert. Spec. Nov. Regni Veg. 57 (1/2): 166, 1955 (Herzog 1955).

¹⁰⁶ *Bazzania* can not be subdivided based on recent molecular studies, so infrageneric taxa are not used here. The genus includes *Mastigobryum*, but several taxa have neither been transferred nor synonymized. They are listed in the “Names in genera not currently accepted” section below.

- ** *Bazzania angustifolia* Horik., J. Sci. Hiroshima Univ., Ser. B, Div. 2, Bot. 2: 198, 1934 (Horikawa 1934).
- ** *Bazzania angustisedens* (Steph.) N.Kitag., J. Hattori Bot. Lab. 36: 445, 1972 [1973] (Kitagawa 1972). Bas.: *Mastigobryum angustisedens* Steph., Bull. Herb. Boissier (sér. 2) 8 (10): 745 (429), 1908 (Stephani 1908c).
- ** *Bazzania angustistipula* N.Kitag., J. Hattori Bot. Lab. 30: 268, 1967 (Kitagawa 1967a).
- *** *Bazzania appendiculata* (Mitt.) S.Hatt., Fl. E. Himalaya: 505, 1966 (Hattori 1966c). Bas.: *Mastigobryum appendiculatum* Mitt., J. Proc. Linn. Soc., Bot. 5 (18): 105, 1860 [1861] (Mitten 1860c).
- ** *Bazzania approximata* Onr., Bull. Jard. Bot. Natl. Belg. 47 (1/2): 139, 1977 (Onraedt 1977).
- ** *Bazzania arcuata* (Lindenb. et Gottsche) Trevis., Mem. Reale Ist. Lombardo Sci. (Ser. 3), C. Sci. Mat. 4 (13): 414, 1877 (Trevisan 1877). Bas.: *Mastigobryum arcuatum* Lindenb. et Gottsche, Syn. Hepat. 5: 718, 1847 (Gottsche et al. 1847).
- ** *Bazzania arcuata* var. *mamillosa* Gradst. et A.R.Benitez, Nova Hedwigia 99 (1/2): 113, 2014 (Gradstein and Benitez 2014).
- ** *Bazzania armatistipula* (Steph.) Fulford, Ann. Cryptog. Phytopathol. 3: 114, 1946 (Fulford 1946). Bas.: *Mastigobryum armatistipulum* Steph., Bull. Herb. Boissier (sér. 2) 8 (11): 866 (490), 1908 (Stephani 1908a).
- ** *Bazzania asperrima* Steph., Rev. Bryol. 34 (3): 48, 1907 (Paris 1907).
- * *Bazzania asymmetrica* (Steph.) N.Kitag., Bull. Nara Univ. Educ., B 28 (2): 77, 1979 (Kitagawa 1979a). Bas.: *Mastigobryum asymmetricum* Steph., Sp. Hepat. (Stephani) 6: 454, 1924 (Stephani 1924).¹⁰⁷
- ** *Bazzania aterrima* (Steph.) N.Kitag., Bull. Nara Univ. Educ., B 26 (2): 77, 1977 (Kitagawa 1977). Bas.: *Mastigobryum aterrimum* Steph., Sp. Hepat. (Stephani) 6: 454, 1924 (Stephani 1924).
- *** *Bazzania aurescens* Spruce, Trans. & Proc. Bot. Soc. Edinburgh 15: 374, 1885 (Spruce 1885).
- ** *Bazzania avia* Meagher, Nova Hedwigia 97 (3/4): 529, 2013 (Meagher 2013).
- ** *Bazzania azorica* H.Buch et Perss., Bryophyt. Azoren Madeira: 3, 1941 (Buch and Persson 1941).
- ** *Bazzania baldwinii* Austin, Trans. Connecticut Acad. Arts 8 (15): 255, 1891 (Evans 1891).
- ** *Bazzania bernieri* (Steph.) Inoue et H.A.Mill., Bull. Natl. Sci. Mus. Tokyo (n.ser.) 8 (2): 142, 1965 (Inoue and Miller 1965). Bas.: *Mastigobryum bernieri* Steph., Bull. Herb. Boissier (sér. 2) 8 (11): 852 (476), 1908 (Stephani 1908a).
- *** *Bazzania bescherellei* Steph., Hedwigia 32 (4): 204, 1893 (Stephani 1893c).
- ** *Bazzania bhutanica* N.Kitag. et Grolle, J. Hattori Bot. Lab. 61: 269, 1986 [1987] (Kitagawa and Grolle 1986).
- ** *Bazzania bicrenata* N.Kitag., J. Hattori Bot. Lab. 47: 127, 1980 (Kitagawa 1980).

107 *Bazzania asymmetrica* is conspecific with *Bazzania macgregorii* in Grolle (1968a), but Kitagawa (1979a) kept them separate.

- *** *Bazzania bidens* (Gottsche et Lindenb.) Trevis., Mem. Reale Ist. Lombardo Sci. (Ser. 3), C. Sci. Mat. 4 (13): 415, 1877 (Trevisan 1877). Bas.: *Mastigobryum bidens* Gottsche et Lindenb., Syn. Hepat. 2: 228, 1845 (Gottsche et al. 1845a).
- ** *Bazzania bidens* var. *heterodonta* Spruce, Trans. & Proc. Bot. Soc. Edinburgh 15: 372, 1885 (Spruce 1885).
- ** *Bazzania bidentula* (Steph.) Yasuda, Shokubutsugaku Kakuron: 711, 1911 (Yasuda 1911). Bas.: *Pleuroschisma bidentulum* Steph., Mém. Soc. Nat. Sci. Nat. Math. Cherbourg 29: 222, 1894 (Stephani 1894b).
- *** *Bazzania bilobata* N.Kitag., J. Hattori Bot. Lab. 30: 257, 1967 (Kitagawa 1967a).
- ** *Bazzania borneensis* N.Kitag., J. Hattori Bot. Lab. 37: 263, 1973 (Kitagawa 1973). *Nom. nov. pro Mastigobryum borneense* Steph., Bull. Herb. Boissier (sér. 2) 8 (11): 839 (463), 1908 (Stephani 1908a), *nom. illeg.*
- ** *Bazzania brasiliensis* (Gottsche et Lindenb.) Trevis., Mem. Reale Ist. Lombardo Sci. (Ser. 3), C. Sci. Mat. 4 (13): 415, 1877 (Trevisan 1877). Bas.: *Mastigobryum brasiliense* Gottsche et Lindenb., Syn. Hepat. 2: 227, 1845 (Gottsche et al. 1845a).
- ** *Bazzania brighamii* (Austin) A.Evans, Trans. Connecticut Acad. Arts 8 (15): 255, 1891 (Evans 1891). Bas.: *Mastigobryum brighamii* Austin, Bull. Torrey Bot. Club 5 (3): 16, 1874 (Austin 1874).
- ** *Bazzania cadens* N.Kitag., J. Hattori Bot. Lab. 47: 129, 1980 (Kitagawa 1980).
- *** *Bazzania calcarata* (Sande Lac.) Schiffn., Consp. Hepat. Arch. Ind.: 149, 1898 (Schiffner 1898b). Bas.: *Mastigobryum calcaratum* Sande Lac., Ann. Mus. Bot. Lugduno-Batavi 1: 304, 1864 (Sande Lacoste 1864).
- ** *Bazzania callida* (Sande Lac. ex Steph.) Abeyw., Ceylon J. Sci., Biol. Sci. 2 (1): 45, 1959 (Abeywickrama 1959). Bas.: *Mastigobryum callidum* Sande Lac. ex Steph., Hedwigia 24 (6): 246, 1885 (Stephani 1885b).
- *** *Bazzania canelensis* (Steph.) Fulford, Ann. Cryptog. Phytopathol. 3: 152, 1946 (Fulford 1946). Bas.: *Mastigobryum canelense* Steph., Sp. Hepat. (Stephani) 3: 518, 1909 (Stephani 1909a).
- ** *Bazzania caudata* (Steph.) Herzog, Trans. Brit. Bryol. Soc. 1 (4): 301, 1950 (Herzog 1950a). Bas.: *Mastigobryum caudatum* Steph., Bull. Herb. Boissier (sér. 2) 8 (12): 947 (497), 1908 (Stephani 1908b).
- *** *Bazzania caudistipula* (Steph.) Inoue et H.A.Mill., Bull. Natl. Sci. Mus. Tokyo (n.ser.) 8 (2): 141, 1965 (Inoue and Miller 1965). Bas.: *Mastigobryum caudistipulum* Steph., Bull. Herb. Boissier (sér. 2) 8 (12): 945 (495), 1908 (Stephani 1908b).
- ** *Bazzania ceylanica* (Mitt.) Steph., Bot. Jahrb. Syst. 23 (1/2, 3): 306, 1896 (Stephani 1896a). Bas.: *Mastigobryum ceylanicum* Mitt., J. Proc. Linn. Soc., Bot. 5 (18): 105, 1860 [1861] (Mitten 1860c).
- ** *Bazzania chilensis* (Steph.) Fulford, Ann. Cryptog. Phytopathol. 3: 51, 1946 (Fulford 1946). Bas.: *Mastigobryum chilense* Steph., Hedwigia 24 (6): 247, 1885 (Stephani 1885b).
- *** *Bazzania chimantensis* Fulford, Bryologist 63 (2): 89, 1960 (Fulford 1960).

- ** *Bazzania cincinnata* (De Not.) Trevis., Mem. Reale Ist. Lombardo Sci. (Ser. 3), C. Sci. Mat. 4 (13): 414, 1877 (Trevisan 1877). Bas.: *Mastigobryum cincinnatum* De Not., Epat. Borneo: 34, 1874 (De Notaris 1874).
- *** *Bazzania citharodes* Meagher, Nova Hedwigia 86 (3/4): 481, 2008 (Meagher 2008).
- ** *Bazzania combinata* (J.B.Jack et Steph.) Steph., Bot. Jahrb. Syst. 23 (1/2, 3): 306, 1896 (Stephani 1896a). Bas.: *Mastigobryum combinatum* J.B.Jack et Steph., Bot. Centralbl. 60 (4): 102, 1894 (Jack and Stephani 1894).
- ** *Bazzania commutata* (Lindenb. et Gottsche) Schiffn., Consp. Hepat. Arch. Ind.: 149, 1898 (Schiffner 1898b). Bas.: *Mastigobryum commutatum* Lindenb. et Gottsche, Sp. Hepat. (Lindenberg) 8-11: 97, 1851 (Lindenberg and Gottsche 1851b).
- * *Bazzania comorensis* Steph., Bull. Soc. Roy. Bot. Belgique, Compt. Rend. 30 (2): 197, 1891 [1892] (Stephani 1891b).
- ** *Bazzania confertifolia* (Steph.) Herzog, Trans. Brit. Bryol. Soc. 1 (4): 298, 1950 (Herzog 1950a). Bas.: *Mastigobryum confertifolium* Steph., Bull. Herb. Boissier (sér. 2) 8 (11): 858 (482), 1908 (Stephani 1908a).
- ** *Bazzania conistipula* (Steph.) H.A.Mill., Phytologia 47 (4): 320, 1981 (Miller 1981). Bas.: *Mastigobryum conistipulum* Steph., Sp. Hepat. (Stephani) 6: 458, 1924 (Stephani 1924).
- ** *Bazzania conophylla* (Sande Lac.) Schiffn., Consp. Hepat. Arch. Ind.: 150, 1898 (Schiffner 1898b). Bas.: *Mastigobryum conophyllum* Sande Lac., Ann. Mus. Bot. Lugduno-Batavi 1: 304, 1864 (Sande Lacoste 1864).
- ** *Bazzania consanguinea* (Hampe et Lindenb.) Trevis., Mem. Reale Ist. Lombardo Sci. (Ser. 3), C. Sci. Mat. 4 (13): 414, 1877 (Trevisan 1877). Bas.: *Mastigobryum consanguineum* Hampe et Lindenb., Linnaea 20 (3): 327, 1847 (Hampe 1847).
- ** *Bazzania consociata* (Steph.) H.A.Mill., Phytologia 47 (4): 320, 1981 (Miller 1981). Bas.: *Mastigobryum consociatum* Steph., Sp. Hepat. (Stephani) 6: 458, 1924 (Stephani 1924).
- * *Bazzania corbieri* (Steph.) Meagher, Nova Hedwigia 86 (3/4): 483, 2008 (Meagher 2008). Bas.: *Mastigobryum corbieri* Steph., J. & Proc. Roy. Soc. New South Wales 48 (1/2): 122, 1914 (Stephani and Watts 1914).¹⁰⁸
- ** *Bazzania crassidentata* Fulford, Bull. Torrey Bot. Club 86 (5): 338, 1959 (Fulford 1959b).
- ** *Bazzania crassitexta* Steph., Hedwigia 32 (4): 205, 1893 (Stephani 1893c).
- * *Bazzania crenata* (Trevis.) Trevis., Mem. Reale Ist. Lombardo Sci. (Ser. 3), C. Sci. Mat. 4 (13): 415, 1877 (Trevisan 1877). Bas.: *Pleuroschisma crenatum* Trevis., Herb. Crypt. Trev. 2: 30, 1853 (Trevisan 1853; non vidi).¹⁰⁹
- ** *Bazzania cubensis* (Gottsche ex Steph.) Pagán, Bryologist 42 (2): 38, 1939 (Pagán 1939b). Bas.: *Mastigobryum cubense* Gottsche ex Steph., Hedwigia 24 (6): 248, 1885 (Stephani 1885b).

108 *Bazzania corbieri* may be conspecific with *Bazzania crenata* (Meagher 2008).

109 *Bazzania crenata* from Europe has neither been recognized in any recent treatment nor synonymized. The name may have priority once the identity is established.

- ** *Bazzania cucullata* Onr., Bull. Jard. Bot. Natl. Belg. 47 (1/2): 142, 1977 (Onraedt 1977).
- *** *Bazzania cuneistipula* (Gottsche et Lindenb.) Trevis., Mem. Reale Ist. Lombardo Sci. (Ser. 3), C. Sci. Mat. 4 (13): 414, 1877 (Trevisan 1877). Bas.: *Mastigobryum cuneistipulum* Gottsche et Lindenb., Syn. Hepat. 2: 225, 1845 (Gottsche et al. 1845a).
- * *Bazzania curvidens* Steph., Bull. Soc. Roy. Bot. Belgique, Compt. Rend. 30 (2): 197, 1891 [1892] (Stephani 1891b).
- ** *Bazzania debilis* N.Kitag., J. Hattori Bot. Lab. 30: 256, 1967 (Kitagawa 1967a).
- ** *Bazzania deciduifolia* Onr., Bull. Jard. Bot. Natl. Belg. 47 (1/2): 144, 1977 (Onraedt 1977).
- *** *Bazzania decrescens* (Lehm. et Lindenb.) Trevis., Mem. Reale Ist. Lombardo Sci. (Ser. 3), C. Sci. Mat. 4 (13): 414, 1877 (Trevisan 1877). Bas.: *Jungermannia decrescens* Lehm. et Lindenb., Nov. Stirp. Pug. 4: 57, 1832 (Lehmann 1832).¹¹⁰
- ** *Bazzania decrescens* var. *dentistipula* Kiaer et Pearson, Forh. Vidensk.-Selsk. Kristiania 1892 (14): 6, 1893 (Pearson 1893).
- ** *Bazzania decrescens* subsp. *molleri* (Steph.) E.W.Jones, J. Bryol. 8 (3): 303, 1975 (Jones 1975). Bas.: *Mastigobryum molleri* Steph., Bot. Jahrb. Syst. 8 (2): 84, 1886 (Stephani 1886d).
- ** *Bazzania decrescens* subsp. *pumila* (Mitt.) Pócs, Trop. Bryol. 9: 129, 1994 (Pócs 1994c). Bas.: *Bazzania pumila* Mitt., J. Linn. Soc., Bot. 22 (146): 322, 1886 (Mitten 1886b).
- ** *Bazzania densa* (Sande Lac.) Schiffn., Consp. Hepat. Arch. Ind.: 151, 1898 (Schiffner 1898b). Bas.: *Mastigobryum densum* Sande Lac., Ned. Kruidk. Arch. 3: 418, 1854 [1855] (Sande Lacoste 1854).
- ** *Bazzania densa* var. *connata* (Sande Lac.) Schiffn., Consp. Hepat. Arch. Ind.: 151, 1898 (Schiffner 1898b). Bas.: *Mastigobryum densum* β *connatum* Sande Lac., Ann. Mus. Bot. Lugduno-Batavi 1: 302, 1864 (Sande Lacoste 1864).
- *** *Bazzania denticulata* (Lindenb. et Gottsche) Trevis., Mem. Reale Ist. Lombardo Sci. (Ser. 3), C. Sci. Mat. 4 (13): 414, 1877 (Trevisan 1877). Bas.: *Mastigobryum denticulatum* Lindenb. et Gottsche, Syn. Hepat. 5: 718, 1847 (Gottsche et al. 1847).
- ** *Bazzania denticulifera* Mägd., Nova Hedwigia 38: 53, 1983 (Mägdefrau 1983).
- ** *Bazzania denudata* (Lindenb. et Gottsche) Trevis., Mem. Reale Ist. Lombardo Sci. (Ser. 3), C. Sci. Mat. 4 (13): 414, 1877 (Trevisan 1877). Bas.: *Mastigobryum denudatum* Lindenb. et Gottsche, Syn. Hepat. 2: 216, 1845 (Gottsche et al. 1845a).
- *** *Bazzania deplanchei* (Gottsche) Jovet-Ast, Rev. Bryol. Lichénol. 18 (1/2): 83, 1949 (Jovet-Ast 1949b). Bas.: *Mastigobryum deplanchei* Gottsche, Bull. Herb. Boissier (sér. 2) 8 (12): 955 (505), 1908 (Stephani 1908b).
- ** *Bazzania deplanchei* var. *filamentosa* Tixier, Cryptog. Bryol. Lichénol. 6 (2): 179, 1985 (Tixier 1985b).
- ** *Bazzania desciscens* (Steph.) Meijer, Blumea 10 (2): 382, 1960 (Meijer 1960). Bas.: *Mastigobryum desciscens* Steph., Bull. Herb. Boissier (sér. 2) 8 (11): 862 (486), 1908 (Stephani 1908a).

¹¹⁰ *Bazzania decrescens* is a species complex also including also *Bazzania comorensis*, *Bazzania curvidens* and *Bazzania mascarena* (Grolle 1995).

- ** *Bazzania didericiana* (Gottsche ex Steph.) Steph., Bull. Herb. Boissier 5 (10): 841, 1897 (Stephani 1897c). Bas.: *Mastigobryum didericianum* Gottsche ex Steph., Hedwigia 24 (6): 249, 1885 (Stephani 1885b).
- ** *Bazzania diminuta* Herzog, Trans. Brit. Bryol. Soc. 1 (4): 305, 1950 (Herzog 1950a).
- * *Bazzania distans* (Nees) Trevis., Mem. Reale Ist. Lombardo Sci. (Ser. 3), C. Sci. Mat. 4 (13): 414, 1877 (Trevisan 1877). Bas.: *Mastigobryum distans* Nees, Syn. Hepat. 2: 216, 1845 (Gottsche et al. 1845a).¹¹¹
- *** *Bazzania diversicuspis* Spruce, Trans. & Proc. Bot. Soc. Edinburgh 15: 373, 1885 (Spruce 1885).
- ** *Bazzania drepanophylla* Herzog, Trans. Brit. Bryol. Soc. 1 (4): 301, 1950 (Herzog 1950a).
- ** *Bazzania dulitensis* Herzog, Trans. Brit. Bryol. Soc. 1 (4): 299, 1950 (Herzog 1950a).
- ** *Bazzania dulongensis* L.P.Zhou et Li Zhang, J. Bryol. 34 (1): 22, 2012 (Zhou et al. 2012).
- ** *Bazzania eggersiana* (Steph.) Pagán, Bryologist 42 (2): 39, 1939 (Pagán 1939b). Bas.: *Mastigobryum eggersianum* Steph., Bull. Herb. Boissier (sér. 2) 8 (11): 844 (468), 1908 (Stephani 1908a).
- ** *Bazzania elmeri* (Steph.) N.Kitag., J. Hattori Bot. Lab. 36: 446, 1972 [1973] (Kitagawa 1972). Bas.: *Mastigobryum elmeri* Steph., Leaf. Philipp. Bot. 6: 2289, 1914 (Stephani 1914a).
- ** *Bazzania elongata* Fulford, Bull. Torrey Bot. Club 86 (5): 337, 1959 (Fulford 1959b).
- ** *Bazzania emarginata* (Steph.) C.M.Cooke, Trans. Connecticut Acad. Arts 12 (1): 17, 1904 (Cooke 1904). Bas.: *Mastigobryum didericianum* var. *emarginatum* Steph., Hedwigia 24 (6): 249, 1885 (Stephani 1885b).
- ** *Bazzania engelii* Glenny, Fieldiana, Bot. (n.ser.) 47: 176, 2007 (Glenny and Bartlett 2007).
- *** *Bazzania erosa* (Reinw., Blume et Nees) Trevis., Mem. Reale Ist. Lombardo Sci. (Ser. 3), C. Sci. Mat. 4 (13): 415, 1877 (Trevisan 1877). Bas.: *Jungermannia erosa* Reinw., Blume et Nees, Nova Acta Phys.-Med. Acad. Caes. Leop.-Carol. Nat. Cur. 12 (1): 230, 1824 [1825] (Reinwardt et al. 1824a).
- ** *Bazzania erosa* var. *pulopenangensis* (Lindenb. et Gottsche) Schiffn., Consp. Hepat. Arch. Ind.: 157, 1898 (Schiffner 1898b). Bas.: *Mastigobryum erosum* δ *pulopenangense* Lindenb. et Gottsche, Sp. Hepat. (Lindenberg) 8-11: 99, 1851 (Lindenberg and Gottsche 1851b).
- *** *Bazzania exempta* J.J.Engel, J. Hattori Bot. Lab. 99: 197, 2006 (Engel 2006c).
- *** *Bazzania falcata* (Lindenb.) Trevis., Mem. Reale Ist. Lombardo Sci. (Ser. 3), C. Sci. Mat. 4 (13): 415, 1877 (Trevisan 1877). Bas.: *Mastigobryum falcatum* Lindenb., Syn. Hepat. 2: 231, 1845 (Gottsche et al. 1845a).
- ** *Bazzania falcifolia* (Steph.) H.A.Mill., Phytologia 47 (4): 320, 1981 (Miller 1981). Bas.: *Mastigobryum falcifolium* Steph., Akad. Wiss. Wien, Math.-Naturwiss. Kl., Denkschr. 88: 33, 1911 (Stephani 1911d).

111 *Bazzania distans* is probably conspecific with *Bazzania loricata* (Meijer 1960).

- * *Bazzania fallax* (Sande Lac.) Schiffn., Consp. Hepat. Arch. Ind.: 158, 1898 (Schiffner 1898b). Bas.: *Mastigobryum fallax* Sande Lac., Ann. Mus. Bot. Lugduno-Batavi 1: 304, 1864 (Sande Lacoste 1864).
- *** *Bazzania fasciculata* (Steph.) Meagher, Australas. Bryol. Newslett. 46: 6, 2002 (Meagher 2002). Bas.: *Mastigobryum fasciculatum* Steph., Bull. Herb. Boissier (sér. 2) 8 (10): 748 (432), 1908 (Stephani 1908c).
- ** *Bazzania fauriana* (Steph.) S.Hatt., Bot. Mag. (Tokyo) 59 (693/694): 27, 1946 (Hattori 1946). Bas.: *Mastigobryum faurianum* Steph., Bull. Herb. Boissier (sér. 2) 8 (11): 843 (467), 1908 (Stephani 1908a).
- ** *Bazzania filiformis* Steph., Hedwigia 28 (2): 131, 1889 (Stephani 1889a).
- *** *Bazzania flaccida* (Dumort.) Grolle, Lindbergia 1 (3/4): 200, 1972 [1973] (Grolle 1972b). Bas.: *Pleuroschisma flaccidum* Dumort., Syll. Jungerm. Europ.: 71, 1831 (Dumortier 1831).
- ** *Bazzania flavescens* (Sande Lac. ex Steph.) Schiffn., Consp. Hepat. Arch. Ind.: 158, 1898 (Schiffner 1898b). Bas.: *Mastigobryum flavescens* Sande Lac. ex Steph., Hedwigia 25 (1): 6, 1886 (Stephani 1886e).
- ** *Bazzania fleischeri* (Steph.) Abeyw., Ceylon J. Sci., Biol. Sci. 2 (1): 45, 1959 (Abeywickrama 1959). Bas.: *Mastigobryum fleischeri* Steph., Bull. Herb. Boissier (sér. 2) 8 (10): 773 (457), 1908 (Stephani 1908c).
- * *Bazzania francana* (Steph.) N.Kitag., J. Hattori Bot. Lab. 36: 446, 1972 [1973] (Kitagawa 1972). Bas.: *Mastigobryum francanum* Steph., Sp. Hepat. (Stephani) 6: 463, 1924 (Stephani 1924).
- ** *Bazzania friabilis* N.Kitag. et T.Kodama, J. Hattori Bot. Lab. 39: 67, 1975 (Kitagawa and Kodama 1975b).
- *** *Bazzania fuhreri* Meagher, Nova Hedwigia 92 (3/4): 488, 2011 (Meagher 2011).
- ** *Bazzania fuscescens* A.Evans, Pap. Michigan Acad. Sci. 17: 85, 1932 [1933] (Evans 1932b).
- *** *Bazzania gamscottii* Meagher, Nova Hedwigia 92 (3/4): 492, 2011 (Meagher 2011).
- *** *Bazzania gedeanana* (Steph.) Meijer, Blumea 10 (2): 378, 1960 (Meijer 1960). Bas.: *Mastigobryum gedeanum* Steph., Sp. Hepat. (Stephani) 3: 540, 1909 (Stephani 1909a).
- *** *Bazzania gracilis* (Hampe et Gottsche) Steph., Hedwigia 27 (11/12): 279, 1888 (Stephani 1888c). Bas.: *Mastigobryum gracile* Hampe et Gottsche, Linnaea 25 (3): 346, 1852 [1853] (Hampe and Gottsche 1852).
- ** *Bazzania grandiretis* (Steph.) Herzog, Trans. Brit. Bryol. Soc. 1 (4): 298, 1950 (Herzog 1950a). Bas.: *Mastigobryum grandirete* Steph., Bull. Herb. Boissier (sér. 2) 8 (10): 747 (431), 1908 (Stephani 1908c).
- ** *Bazzania griffithiana* (Steph.) Mizut., J. Hattori Bot. Lab. 30: 82, 1967 (Mizutani 1967). Bas.: *Mastigobryum griffithianum* Steph., Bull. Herb. Boissier (sér. 2) 8 (12): 959 (509), 1908 (Stephani 1908b).
- ** *Bazzania gunniana* (Steph.) H.A.Mill., Phytologia 47 (4): 320, 1981 (Miller 1981). Bas.: *Mastigobryum gunnianum* Steph., J. & Proc. Roy. Soc. New South Wales 48 (1/2): 123, 1914 (Stephani and Watts 1914).

- ** *Bazzania hainanensis* L.P.Zhou et Li Zhang, J. Bryol. 34 (1): 25, 2012 (Zhou et al. 2012).
- ** *Bazzania halconiensis* (Steph.) N.Kitag., J. Hattori Bot. Lab. 36: 447, 1972 [1973] (Kitagawa 1972). Bas.: *Mastigobryum halconiense* Steph., Bull. Herb. Boissier (sér. 2) 8 (10): 759 (443), 1908 (Stephani 1908c).
- ** *Bazzania hamatifolia* (Steph.) H.A.Mill., Phytologia 47 (4): 320, 1981 (Miller 1981). Bas.: *Mastigobryum hamatifolium* Steph., Bull. Herb. Boissier (sér. 2) 8 (11): 862 (486), 1908 (Stephani 1908a).
- ** *Bazzania harpago* (De Not.) Schiffn., Consp. Hepat. Arch. Ind.: 159, 1898 (Schiffner 1898b). Bas.: *Mastigobryum harpago* De Not., Epat. Borneo: 29, 1874 (De Notaris 1874).
- ** *Bazzania hebridensis* (Steph.) H.A.Mill., Phytologia 47 (4): 320, 1981 (Miller 1981). Bas.: *Mastigobryum hebridense* Steph., J. & Proc. Roy. Soc. New South Wales 48 (1/2): 124, 1914 (Stephani and Watts 1914).
- ** *Bazzania herminieri* (Gottsche ex Steph.) Pagán, Bryologist 45 (4): 90, 1942 (Pagán 1942b). Bas.: *Mastigobryum herminieri* Gottsche ex Steph., Hedwigia 25 (1): 8, 1886 (Stephani 1886e).
- ** *Bazzania herzogiana* Meijer, Blumea 10 (2): 371, 1960 (Meijer 1960). *Nom. nov. pro Bazzania remotifolia* Herzog, Trans. Brit. Bryol. Soc. 1 (4): 304, 1950 (Herzog 1950a), *nom. illeg.*
- ** *Bazzania heterostipa* (Steph.) Fulford, Bull. Torrey Bot. Club 86 (6): 410, 1959 (Fulford 1959a). Bas.: *Mastigobryum heterostipum* Steph., Sp. Hepat. (Stephani) 3: 532, 1909 (Stephani 1909a).
- *** *Bazzania himalayana* (Mitt.) Schiffn., Österr. Bot. Z. 49 (4): 132, 1899 (Schiffner 1899b). Bas.: *Mastigobryum himalayanum* Mitt., J. Proc. Linn. Soc., Bot. 5 (18): 105, 1860 [1861] (Mitten 1860c).
- *** *Bazzania hochstetteri* (Reichardt) E.A.Hodgs., Trans. Roy. Soc. New Zealand 82 (1): 11, 1954 (Hodgson 1954). Bas.: *Mastigobryum hochstetteri* Reichardt, Verh. K.K. Zool.-Bot. Ges. Wien 16: 959, 1866 (Reichardt 1866).
- *** *Bazzania hookeri* (Lindenb.) Trevis., Mem. Reale Ist. Lombardo Sci. (Ser. 3), C. Sci. Mat. 4 (13): 414, 1877 (Trevisan 1877). Bas.: *Mastigobryum hookeri* Lindenb., Syn. Hepat. 2: 226, 1845 (Gottsche et al. 1845a).
- ** *Bazzania horridula* Schiffn., Nova Acta Acad. Caes. Leop.-Carol. German. Nat. Cur. 60 (2): 258, 1893 (Schiffner 1893a).
- ** *Bazzania inaequabilis* Steph., Trans. Connecticut Acad. Arts 12 (1): 21, 1904 (Cooke 1904).
- ** *Bazzania inaequitexta* Steph., Hedwigia 32 (4): 208, 1893 (Stephani 1893c).
- ** *Bazzania incrassata* (Steph.) N.Kitag., J. Hattori Bot. Lab. 36: 448, 1972 [1973] (Kitagawa 1972). Bas.: *Mastigobryum incrassatum* Steph., Sp. Hepat. (Stephani) 6: 469, 1924 (Stephani 1924).
- ** *Bazzania indica* (Gottsche et Lindenb.) Trevis., Mem. Reale Ist. Lombardo Sci. (Ser. 3), C. Sci. Mat. 4 (13): 415, 1877 (Trevisan 1877). Bas.: *Mastigobryum indicum* Gottsche et Lindenb., Syn. Hepat. 2: 230, 1845 (Gottsche et al. 1845a).

- ** *Bazzania indigenarum* (Steph.) N.Kitag., Bull. Nara Univ. Educ., B 26 (2): 82, 1977 (Kitagawa 1977). Bas.: *Mastigobryum indigenarum* Steph., J. & Proc. Roy. Soc. New South Wales 48 (1/2): 124, 1914 (Stephani and Watts 1914).
- ** *Bazzania insignis* (De Not.) Trevis., Mem. Reale Ist. Lombardo Sci. (Ser. 3), C. Sci. Mat. 4 (13): 414, 1877 (Trevisan 1877). Bas.: *Mastigobryum insigne* De Not., Epat. Borneo: 26, 1874 (De Notaris 1874).
- * *Bazzania intermedia* (Gottsche et Lindenb.) Trevis., Mem. Reale Ist. Lombardo Sci. (Ser. 3), C. Sci. Mat. 4 (13): 415, 1877 (Trevisan 1877). Bas.: *Mastigobryum intermedium* Gottsche et Lindenb., Sp. Hepat. (Lindenberg) 8-11: 82, 1851 (Lindenberg and Gottsche 1851b).
- ** *Bazzania intermedia* var. *sarawakiana* (De Not.) Schiffn., Consp. Hepat. Arch. Ind.: 162, 1898 (Schiffner 1898b). Bas.: *Mastigobryum intermedium* var. *sarawakianum* De Not., Epat. Borneo: 32, 1874 (De Notaris 1874).
- ** *Bazzania involuta* (Mont.) Trevis., Mem. Reale Ist. Lombardo Sci. (Ser. 3), C. Sci. Mat. 4 (13): 414, 1877 (Trevisan 1877). Bas.: *Herpetium involutum* Mont., Ann. Sci. Nat. Bot. (sér. 2) 19: 253, 1843 (Montagne 1843).
- ** *Bazzania involuta* var. *submutica* (Lindenb. et Gottsche) J.J.Engel et G.L.Merr., Bryologist 97 (3): 314, 1994 (Engel and Smith Merrill 1994). Bas.: *Mastigobryum novae-hollandiae* γ3 *submuticum* Lindenb. et Gottsche, Sp. Hepat. (Lindenberg) 8-11: 33, 1851 (Lindenberg and Gottsche 1851b).
- ** *Bazzania involutiformis* (De Not.) Trevis., Mem. Reale Ist. Lombardo Sci. (Ser. 3), C. Sci. Mat. 4 (13): 414, 1877 (Trevisan 1877). Bas.: *Mastigobryum involutiforme* De Not., Epat. Borneo: 28, 1874 (De Notaris 1874).
- ** *Bazzania irregularis* (Steph.) Schiffn., Consp. Hepat. Arch. Ind.: 163, 1898 (Schiffner 1898b). Bas.: *Mastigobryum irregulare* Steph., Hedwigia 25 (4): 133, 1886 (Stephani 1886b).
- *** *Bazzania jamaicensis* (Lehm. et Lindenb.) Trevis., Mem. Reale Ist. Lombardo Sci. (Ser. 3), C. Sci. Mat. 4 (13): 414, 1877 (Trevisan 1877). Bas.: *Herpetium jamaicense* Lehm. et Lindenb., Nov. Stirp. Pug. 7: 7, 1838 (Lehmann 1838).
- ** *Bazzania japonica* (Sande Lac.) Lindb., Acta Soc. Sci. Fenn. 10: 224, 1872 [1873] (Lindberg 1872b). Bas.: *Mastigobryum japonicum* Sande Lac., Ann. Mus. Bot. Lugduno-Batavi 1: 303, 1864 (Sande Lacoste 1864).
- ** *Bazzania japonica* var. *sumatrana* Herzog, Ann. Naturhist. Mus. Wien 53 (1): 366, 1942 [1943] (Herzog 1942b).
- ** *Bazzania javanica* (Sande Lac.) Schiffn., Consp. Hepat. Arch. Ind.: 163, 1898 (Schiffner 1898b). Bas.: *Mastigobryum javanicum* Sande Lac., Ned. Kruidk. Arch. 3: 418, 1854 [1855] (Sande Lacoste 1854).
- ** *Bazzania kernii* Steph., Hedwigia 32 (4): 208, 1893 (Stephani 1893c).
- ** *Bazzania kokawana* N.Kitag. et T.Kodama, J. Jap. Bot. 50 (1): 11, 1975 (Kitagawa and Kodama 1975a).
- ** *Bazzania latifolia* Steph., Hedwigia 32 (4): 209, 1893 (Stephani 1893c).

- * *Bazzania lehmanniana* (Lindenb.) Trevis., Mem. Reale Ist. Lombardo Sci. (Ser. 3), C. Sci. Mat. 4 (13): 414, 1877 (Trevisan 1877). Bas.: *Mastigobryum lehmannianum* Lindenb., Syn. Hepat. 2: 223, 1845 (Gottsche et al. 1845a).¹¹²
- ** *Bazzania leratii* (Beauverd) H.A.Mill., Phytologia 47 (4): 320, 1981 (Miller 1981). Bas.: *Mastigobryum leratii* Beauverd, Sp. Hepat. (Stephani) 6: 477, 1924 (Stephani 1924).
- ** *Bazzania lessonii* (Steph.) H.A.Mill., Phytologia 47 (4): 321, 1981 (Miller 1981). Bas.: *Mastigobryum lessonii* Steph., Sp. Hepat. (Stephani) 3: 531, 1909 (Stephani 1909a).
- ** *Bazzania levieri* (Steph.) N.Kitag., J. Hattori Bot. Lab. 36: 448, 1972 [1973] (Kitagawa 1972). Bas.: *Mastigobryum levieri* Steph., Bull. Herb. Boissier (sér. 2) 8 (12): 944 (494), 1908 (Stephani 1908b).
- ** *Bazzania liebmaniana* (Lindenb. et Gottsche) Trevis., Mem. Reale Ist. Lombardo Sci. (Ser. 3), C. Sci. Mat. 4 (13): 414, 1877 (Trevisan 1877). Bas.: *Mastigobryum liebmanianum* Lindenb. et Gottsche, Syn. Hepat. 5: 719, 1847 (Gottsche et al. 1847).
- ** *Bazzania linearis* Herzog, Trans. Brit. Bryol. Soc. 1 (4): 303, 1950 (Herzog 1950a).
- ** *Bazzania linguiformis* (Sande Lac.) Trevis., Mem. Reale Ist. Lombardo Sci. (Ser. 3), C. Sci. Mat. 4 (13): 414, 1877 (Trevisan 1877). Bas.: *Mastigobryum linguiforme* Sande Lac., Plagiochila Sandei: 8, 1856 (Sande Lacoste 1856c).
- *** *Bazzania longa* (Nees) Trevis., Mem. Reale Ist. Lombardo Sci. (Ser. 3), C. Sci. Mat. 4 (13): 415, 1877 (Trevisan 1877). Bas.: *Jungermannia longa* Nees, Linnaea 6 (4): 623, 1831 (Nees 1831).
- ** *Bazzania longa* var. *papillata* (Steph.) Fulford, Ann. Cryptog. Phytopathol. 3: 94, 1946 (Fulford 1946). Bas.: *Mastigobryum papillatum* Steph., Sp. Hepat. (Stephani) 3: 526, 1909 (Stephani 1909a).
- *** *Bazzania longicaulis* (Sande Lac.) Schiffn., Consp. Hepat. Arch. Ind.: 165, 1898 (Schiffner 1898b). Bas.: *Mastigobryum longicaule* Sande Lac., Ann. Mus. Bot. Lugduno-Batavi 1: 303, 1864 (Sande Lacoste 1864).
- ** *Bazzania longicaulis* var. *latiareata* Herzog, Memoranda Soc. Fauna Fl. Fennica 26: 46, 1950 [1951] (Herzog 1950b).
- *** *Bazzania longistipula* (Lindenb.) Trevis., Mem. Reale Ist. Lombardo Sci. (Ser. 3), C. Sci. Mat. 4 (13): 415, 1877 (Trevisan 1877). Bas.: *Mastigobryum longistipulum* Lindenb., Syn. Hepat. 2: 228, 1845 (Gottsche et al. 1845a).
- *** *Bazzania loricata* (Reinw., Blume et Nees) Trevis., Mem. Reale Ist. Lombardo Sci. (Ser. 3), C. Sci. Mat. 4 (13): 414, 1877 (Trevisan 1877). Bas.: *Jungermannia loricata* Reinw., Blume et Nees, Nova Acta Phys.-Med. Acad. Caes. Leop.-Carol. Nat. Cur. 12 (1): 233, 1824 [1825] (Reinwardt et al. 1824a).
- ** *Bazzania lowii* (Sande Lac. ex Steph.) Schiffn., Consp. Hepat. Arch. Ind.: 166, 1898 (Schiffner 1898b). Bas.: *Mastigobryum lowii* Sande Lac. ex Steph., Hedwigia 25 (5): 204, 1886 (Stephani 1886f).

¹¹² *Bazzania lehmanniana* is possibly conspecific with *Bazzania arcuata* or *Bazzania longa* (Meagher 2012).

- ** *Bazzania luzonensis* (Steph.) Del Ros., Philipp. J. Sci. 100 (3/4): 231, 1971 (Del Rosario 1971). Bas.: *Mastigobryum luzonense* Steph., Sp. Hepat. (Stephani) 6: 472, 1924 (Stephani 1924).
- ** *Bazzania macgregorii* Steph., Hedwigia 32 (4): 210, 1893 (Stephani 1893c).
- ** *Bazzania macrostipula* Fulford, Bull. Torrey Bot. Club 86 (6): 407, 1959 (Fulford 1959a).
- ** *Bazzania magna* Horik., J. Sci. Hiroshima Univ., Ser. B, Div. 2, Bot. 2: 197, 1934 (Horikawa 1934).
- ** *Bazzania magnistipula* N.Kitag., J. Hattori Bot. Lab. 47: 132, 1980 (Kitagawa 1980).
- ** *Bazzania malaccensis* (Steph.) Tixier, Gard. Bull. Singapore 25 (3): 342, 1971 (Tixier 1971). Bas.: *Mastigobryum malaccense* Steph., Bull. Herb. Boissier (sér. 2) 8 (12): 944 (494), 1908 (Stephani 1908b).
- ** *Bazzania manillana* (Gottsche ex Steph.) S.Hatt., Bot. Mag. (Tokyo) 64 (755/756): 113, 1951 (Hattori 1951c). Bas.: *Mastigobryum manillanum* Gottsche ex Steph., Hedwigia 25 (5): 204, 1886 (Stephani 1886f).
- * *Bazzania marginata* (Steph.) N.Kitag., J. Hattori Bot. Lab. 36: 449, 1972 [1973] (Kitagawa 1972). Bas.: *Mastigobryum marginatum* Steph., Rev. Bryol. 35 (2): 31, 1908 (Stephani 1908l).
- ** *Bazzania marginella* (Herzog) N.Kitag. et T.Kodama, Bull. Osaka Mus. Nat. Hist. 27: 17, 1973 (Kitagawa and Kodama 1973). Bas.: *Mastigobryum marginellum* Herzog, Ann. Bryol. 5: 91, 1932 (Herzog 1932a).
- * *Bazzania mascarena* (Steph.) Herzog, Bot. Not. 100 (4): 334, 1947 (Herzog 1947). Bas.: *Mastigobryum mascarenum* Steph., Hedwigia 25 (5): 205, 1886 (Stephani 1886f).
- ** *Bazzania mayebarae* S.Hatt., J. Hattori Bot. Lab. 19: 91, 1958 (Hattori and Mizutani 1958).
- * *Bazzania menzelii* E.D.Cooper, Phytotaxa 97 (2): 52, 2013 (Cooper et al. 2013). *Nom. nov. pro Acromastigum emarginatum* Herzog, Trans. Brit. Bryol. Soc. 1 (4): 309, 1950 (Herzog 1950a).
- ** *Bazzania merrillana* (Steph.) Inoue ex Bonner, Index Hepat. 3: 359, 1963 (Bonner 1963). Bas.: *Mastigobryum merrillanum* Steph., Bull. Herb. Boissier (sér. 2) 8 (12): 944 (494), 1908 (Stephani 1908b).
- ** *Bazzania minuta* (Austin) A.Evans, Trans. Connecticut Acad. Arts 8 (15): 255, 1891 (Evans 1891). Bas.: *Mastigobryum minutum* Austin, Bull. Torrey Bot. Club 5 (3): 17, 1874 (Austin 1874).
- ** *Bazzania minutidens* (Steph.) Inoue et H.A.Mill., Bull. Natl. Sci. Mus. Tokyo (n.ser.) 8 (2): 142, 1965 (Inoue and Miller 1965). Bas.: *Mastigobryum minutidens* Steph., Sp. Hepat. (Stephani) 6: 474, 1924 (Stephani 1924).
- ** *Bazzania minutiserra* (Steph.) N.Kitag., Bull. Nara Univ. Educ., B 26 (2): 77, 1977 (Kitagawa 1977). Bas.: *Mastigobryum minutiserrum* Steph., Sp. Hepat. (Stephani) 6: 474, 1924 (Stephani 1924).

- ** *Bazzania missionum* (Herzog) Jovet-Ast, Rev. Bryol. Lichénol. 20 (1/2): 96, 1951 (Jovet-Ast 1951). Bas.: *Mastigobryum missionum* Herzog, Ann. Bryol. 5: 93, 1932 (Herzog 1932a).
- ** *Bazzania mittenii* (Steph.) Steph., Hedwigia 28 (2): 132, 1889 (Stephani 1889a). Bas.: *Mastigobryum mittenii* Steph., Hedwigia 25 (6): 245, 1886 (Stephani 1886c).
- *** *Bazzania monilinervis* (Lehm. et Lindenb.) Trevis., Mem. Reale Ist. Lombardo Sci. (Ser. 3), C. Sci. Mat. 4 (13): 414, 1877 (Trevisan 1877). Bas.: *Jungermannia monilinervis* Lehm. et Lindenb., Nov. Stirp. Pug. 4: 56, 1832 (Lehmann 1832).
- ** *Bazzania morokensis* (Steph.) Grolle, J. Hattori Bot. Lab. 31: 1, 1968 (Grolle 1968a). Bas.: *Mastigobryum morokense* Steph., Bull. Herb. Boissier (sér. 2) 8 (10): 765 (449), 1908 (Stephani 1908c).
- *** *Bazzania nitida* (F.Weber) Grolle, Rev. Bryol. Lichénol. 29 (3/4): 210, 1960 [1961] (Grolle 1960a). Bas.: *Jungermannia nitida* F.Weber, Hist. Musc. Hepat. Prodr.: 43, 1815 (Weber 1815).
- *** *Bazzania novae-zelandiae* (Mitt.) Besch. et C.Massal., Miss. sci. Cape Horn, Bot. 5: 233, 1889 (Bescherelle and Massalongo 1889). Bas.: *Mastigobryum novae-zelandiae* Mitt., Bot. antarct. voy. II (Fl. Nov.-Zel. 2): 148, 1854 (Mitten 1854).
- ** *Bazzania nudicaulis* A.Evans, Bryologist 26 (6): 62, 1923 [1924] (Evans 1923b).
- ** *Bazzania nuuanuensensis* C.M.Cooke, Trans. Connecticut Acad. Arts 12 (1): 15, 1904 (Cooke 1904).
- ** *Bazzania obcuneata* (Steph.) H.A.Mill., Phytologia 47 (4): 321, 1981 (Miller 1981). Bas.: *Mastigobryum obcuneatum* Steph., Bull. Herb. Boissier (sér. 2) 8 (11): 863 (487), 1908 (Stephani 1908a).
- ** *Bazzania obtusata* (Mitt.) Abeyw., Ceylon J. Sci., Biol. Sci. 2 (1): 45, 1959 (Abeywickrama 1959). Bas.: *Mastigobryum obtusatum* Mitt., J. Proc. Linn. Soc., Bot. 5 (18): 106, 1860 [1861] (Mitten 1860c).
- ** *Bazzania okaritana* Meagher et Glenny, J. Bryol. 29 (1): 60, 2007 (Meagher and Glenny 2007).
- ** *Bazzania orbani* Pócs, Acta Biol. Pl. Agr. 1: 16, 2010 [2011] (Pócs 2010c).
- ** *Bazzania ovistipula* (Steph.) Abeyw., Ceylon J. Sci., Biol. Sci. 2 (1): 45, 1959 (Abeywickrama 1959). Bas.: *Mastigobryum ovistipulum* Steph., Bull. Herb. Boissier (sér. 2) 8 (10): 760 (444), 1908 (Stephani 1908c).
- ** *Bazzania pallidevirens* (Steph.) Fulford, Ann. Cryptog. Phytopathol. 3: 42, 1946 (Fulford 1946). Bas.: *Mastigobryum pallidevirens* Steph., Bull. Herb. Boissier (sér. 2) 8 (11): 849 (473), 1908 (Stephani 1908a).
- ** *Bazzania papillosa* S.W.Arnell, Svensk Bot. Tidskr. 59 (1): 67, 1965 (Arnell 1965).
- ** *Bazzania paradoxa* (Sande Lac.) Steph., Bot. Jahrb. Syst. 23 (1/2, 3): 307, 1896 (Stephani 1896a). Bas.: *Mastigobryum paradoxum* Sande Lac., Ned. Kruidk. Arch. 3: 419, 1854 [1855] (Sande Lacoste 1854).
- *** *Bazzania parisii* (Steph.) N.Kitag., J. Hattori Bot. Lab. 47: 135, 1980 (Kitagawa 1980). Bas.: *Mastigobryum parisii* Steph., Bull. Herb. Boissier (sér. 2) 8 (10): 769 (453), 1908 (Stephani 1908c).

- ** *Bazzania parvitexta* Steph., *Hedwigia* 32 (4): 211, 1893 (Stephani 1893c).
- ** *Bazzania patens* (Mont.) Trevis., *Mem. Reale Ist. Lombardo Sci. (Ser. 3), C. Sci. Mat.* 4 (13): 414, 1877 (Trevisan 1877). Bas.: *Herpetium patens* Mont., *Ann. Sci. Nat. Bot. (sér. 2)* 20: 295, 1844 (Montagne 1844b).
- ** *Bazzania patentistipa* (Sande Lac.) Schiffn., *Consp. Hepat. Arch. Ind.*: 168, 1898 (Schiffner 1898b). Bas.: *Mastigobryum patentistipum* Sande Lac., *Ann. Mus. Bot. Lugduno-Batavi* 1: 302, 1864 (Sande Lacoste 1864).
- ** *Bazzania paucidens* (Steph.) H.A.Mill., *Phytologia* 47 (4): 321, 1981 (Miller 1981). Bas.: *Mastigobryum paucidens* Steph., *Bull. Herb. Boissier (sér. 2)* 8 (11): 860 (484), 1908 (Stephani 1908a).
- ** *Bazzania pearsonii* Steph., *Hedwigia* 32 (4): 212, 1893 (Stephani 1893c).
- *** *Bazzania pectinata* (Lindenb. et Gottsche) Schiffn., *Nova Acta Acad. Caes. Leop.-Carol. German. Nat. Cur.* 60 (2): 259, 1893 (Schiffner 1893a). Bas.: *Mastigobryum pectinatum* Lindenb. et Gottsche, *Sp. Hepat. (Lindenberg)* 8-11: 84, 1851 (Lindenberg and Gottsche 1851b).
- ** *Bazzania perfalcata* N.Kitag., *J. Hattori Bot. Lab.* 47: 135, 1980 (Kitagawa 1980).
- ** *Bazzania perrotana* E.W.Jones, *J. Bryol.* 8 (3): 310, 1975 (Jones 1975). *Nom. nov. pro Mastigobryum perrotanum* Steph., *Sp. Hepat. (Stephani)* 6: 476, 1924 (Stephani 1924), *nom. illeg.*
- ** *Bazzania peruviana* (Nees) Trevis., *Mem. Reale Ist. Lombardo Sci. (Ser. 3), C. Sci. Mat.* 4 (13): 414, 1877 (Trevisan 1877). Bas.: *Mastigobryum peruvianum* Nees, *Syn. Hepat.* 2: 220, 1845 (Gottsche et al. 1845a).
- *** *Bazzania phyllobola* Spruce, *Trans. & Proc. Bot. Soc. Edinburgh* 15: 372, 1885 (Spruce 1885).
- *** *Bazzania placophylla* (Taylor) Grolle, *Rev. Bryol. Lichénol.* 27 (1/2): 54, 1958 (Grolle 1958). Bas.: *Jungermannia placophylla* Taylor, *London J. Bot.* 5: 276, 1846 (Taylor 1846a).
- ** *Bazzania platycnema* (Schwägr. ex Steph.) H.A.Mill., *Bryologist* 63 (2): 121, 1960 (Miller 1960). Bas.: *Mastigobryum platycnemum* Schwägr. ex Steph., *Bull. Herb. Boissier (sér. 2)* 8 (10): 776 (460), 1908 (Stephani 1908c).
- ** *Bazzania pompeana* (Sande Lac.) Mitt., *Trans. Linn. Soc. London, Bot.* 3 (3): 200, 1891 (Mitten 1891). Bas.: *Mastigobryum pompeanum* Sande Lac., *Ann. Mus. Bot. Lugduno-Batavi* 1: 304, 1864 (Sande Lacoste 1864).
- *** *Bazzania praerupta* (Reinw., Blume et Nees) Trevis., *Mem. Reale Ist. Lombardo Sci. (Ser. 3), C. Sci. Mat.* 4 (13): 414, 1877 (Trevisan 1877). Bas.: *Jungermannia praerupta* Reinw., Blume et Nees, *Nova Acta Phys.-Med. Acad. Caes. Leop.-Carol. Nat. Cur.* 12 (1): 229, 1824 [1825] (Reinwardt et al. 1824a).
- * *Bazzania praerupta* var. *obliquata* (Nees) Schiffn., *Consp. Hepat. Arch. Ind.*: 170, 1898 (Schiffner 1898b). Bas.: *Jungermannia obliquata* Nees, *Enum. Pl. Crypt. Javae*: 62, 1830 (Nees 1830).
- ** *Bazzania praerupta* var. *thermalis* Schiffn., *Arch. Hydrobiol., suppl.* 21 (3/4): 396, 1955 (Schiffner 1955).

- ** *Bazzania pseudovittata* N.Kitag. et T.Kodama, J. Hattori Bot. Lab. 39: 69, 1975 (Kitagawa and Kodama 1975b).
- ** *Bazzania pusilla* (Mitt.) Steph., Bot. Jahrb. Syst. 23 (1/2, 3): 307, 1896 (Stephani 1896a). Bas.: *Mastigobryum pusillum* Mitt., Fl. vit.: 406, 1871 [1873] (Mitten 1871).
- ** *Bazzania pycnophylla* (Taylor) Trevis., Mem. Reale Ist. Lombardo Sci. (Ser. 3), C. Sci. Mat. 4 (13): 414, 1877 (Trevisan 1877). Bas.: *Mastigobryum pycnophyllum* Taylor, London J. Bot. 5: 371, 1846 (Taylor 1846b).
- ** *Bazzania quadratistipula* H.A.Mill., Phytologia 47 (4): 321, 1981 (Miller 1981). *Nom. nov. pro Mastigobryum quadratum* Steph., Sp. Hepat. (Stephani) 6: 477, 1924 (Stephani 1924), *nom. illeg.*
- ** *Bazzania rabenhorstii* (Steph.) Abeyw., Ceylon J. Sci., Biol. Sci. 2 (1): 45, 1959 (Abeywickrama 1959). Bas.: *Mastigobryum rabenhorstii* Steph., Bull. Herb. Boissier (sér. 2) 8 (10): 774 (458), 1908 (Stephani 1908c).
- ** *Bazzania recurva* (Mont.) Trevis., Mem. Reale Ist. Lombardo Sci. (Ser. 3), C. Sci. Mat. 4 (13): 414, 1877 (Trevisan 1877). Bas.: *Herpetium recurvum* Mont., Ann. Sci. Nat. Bot. (sér. 2) 19: 253, 1843 (Montagne 1843).
- * *Bazzania recurva* var. *major* (Sande Lac.) Schiffn., Consp. Hepat. Arch. Ind.: 172, 1898 (Schiffner 1898b). Bas.: *Mastigobryum recurvum* var. *majus* Sande Lac., Ann. Mus. Bot. Lugduno-Batavi 1: 304, 1864 (Sande Lacoste 1864).
- ** *Bazzania reflexa* (Gottsche) Steph., Rev. Bryol. 18 (4): 56, 1891 (Renauld and Cardot 1891). Bas.: *Mastigobryum reflexum* Gottsche, Abh. Naturwiss. Vereins Bremen 7: 347, 1882 (Gottsche 1882).
- ** *Bazzania reinwardtii* (Sande Lac.) Schiffn., Consp. Hepat. Arch. Ind.: 172, 1898 (Schiffner 1898b). Bas.: *Mastigobryum reinwardtii* Sande Lac., Pl. Ind. Batav. Orient.: 22, 1856 (Sande Lacoste 1856a).
- ** *Bazzania renistipula* Steph., Hedwigia 32 (4): 212, 1893 (Stephani 1893c).
- ** *Bazzania revoluta* (Steph.) N.Kitag., J. Hattori Bot. Lab. 36: 450, 1972 [1973] (Kitagawa 1972). Bas.: *Mastigobryum revolutum* Steph., Bull. Herb. Boissier (sér. 2) 8 (12): 961 (511), 1908 (Stephani 1908b).
- *** *Bazzania rimosa* Meagher, Nova Hedwigia 86 (3/4): 489, 2008 (Meagher 2008).
- ** *Bazzania roccatii* Gola, Ann. Bot. (Rome) 6 (2): 273, 1907 (Gola 1907).
- *** *Bazzania roraimensis* (Steph.) Fulford, Ann. Cryptog. Phytopathol. 3: 27, 1946 (Fulford 1946). Bas.: *Mastigobryum roraimense* Steph., Trans. Linn. Soc. London, Bot. 6 (1): 97, 1901 (Stephani 1901e).
- ** *Bazzania sandvicensis* (Gottsche ex Steph.) Steph., Bull. Herb. Boissier 5 (10): 841, 1897 (Stephani 1897c). Bas.: *Mastigobryum sandvicense* Gottsche ex Steph., Hedwigia 25 (5): 207, 1886 (Stephani 1886f).
- ** *Bazzania sauropoda* Meagher, Austrobaileya 7 (1): 129, 2005 (Meagher 2005a).
- *** *Bazzania scalaris* Meagher, Telopea 11 (3): 247, 2006 (Meagher 2006).
- *** *Bazzania schlimiana* (Gottsche) Fulford, Bull. Torrey Bot. Club 86 (6): 401, 1959 (Fulford 1959a). Bas.: *Mastigobryum schlimianum* Gottsche, Ann. Sci. Nat. Bot. (sér. 5) 1: 140, 1864 (Gottsche 1864).
- ** *Bazzania schultze-motellii* N.Kitag., J. Hattori Bot. Lab. 47: 138, 1980 (Kitagawa 1980).

- ** *Bazzania schusterana* N.Kitag., J. Hattori Bot. Lab. 47: 139, 1980 (Kitagawa 1980).
- *** *Bazzania schwaneckiana* (Hampe et Gottsche) Trevis., Mem. Reale Ist. Lombardo Sci. (Ser. 3), C. Sci. Mat. 4 (13): 414, 1877 (Trevisan 1877). Bas.: *Mastigobryum schwaneckianum* Hampe et Gottsche, Linnaea 25 (3): 345, 1852 [1853] (Hampe and Gottsche 1852).
- * *Bazzania scutigera* (Nees et Mont.) Trevis., Mem. Reale Ist. Lombardo Sci. (Ser. 3), C. Sci. Mat. 4 (13): 414, 1877 (Trevisan 1877). Bas.: *Herpetium scutigerum* Nees et Mont., Ann. Sci. Nat. Bot. (sér. 2) 9: 44, 1838 (Montagne 1838).
- ** *Bazzania semicordata* (Lindenb. et Gottsche) Kuntze, Revis. Gen. Pl. 2: 832, 1891 (Kuntze 1891). Bas.: *Mastigobryum semicordatum* Lindenb. et Gottsche, Syn. Hepat. 5: 720, 1847 (Gottsche et al. 1847).
- * *Bazzania serpentina* (Nees) Trevis., Mem. Reale Ist. Lombardo Sci. (Ser. 3), C. Sci. Mat. 4 (13): 415, 1877 (Trevisan 1877). Bas.: *Jungermannia serpentina* Nees, Enum. Pl. Crypt. Javae: 62, 1830 (Nees 1830).¹¹³
- ** *Bazzania serrapiculata* Inoue et H.A.Mill., Bull. Natl. Sci. Mus. Tokyo (n.ser.) 8 (2): 141, 1965 (Inoue and Miller 1965).
- ** *Bazzania serrata* Fulford, Bull. Torrey Bot. Club 86 (5): 321, 1959 (Fulford 1959b).
- ** *Bazzania serrulatooides* Horik., J. Sci. Hiroshima Univ., Ser. B, Div. 2, Bot. 2: 200, 1934 (Horikawa 1934).
- * *Bazzania sikkimensis* (Steph.) Herzog, Ann. Bryol. 12: 78, 1939 (Herzog 1939b). Bas.: *Mastigobryum sikkimense* Steph., Hedwigia 44 (2): 73, 1905 (Stephani 1905h).¹¹⁴
- ** *Bazzania spinosa* S.Okamura, J. Coll. Sci. Imp. Univ. Tokyo 38 (4): 2, 1916 (Okamura 1916).
- ** *Bazzania spiralis* (Reinw., Blume et Nees) Meijer, Blumea 10 (2): 381, 1960 (Meijer 1960). Bas.: *Jungermannia spiralis* Reinw., Blume et Nees, Nova Acta Phys.-Med. Acad. Caes. Leop.-Carol. Nat. Cur. 12 (1): 231, 1824 [1825] (Reinwardt et al. 1824a).
- ** *Bazzania spruceana* Steph., Hedwigia 32 (4): 213, 1893 (Stephani 1893c).
- ** *Bazzania squarrosa* (Steph.) H.A.Mill., Phytologia 47 (4): 321, 1981 (Miller 1981). Bas.: *Mastigobryum squarrosus* Steph., Bull. Herb. Boissier (sér. 2) 8 (10): 776 (460), 1908 (Stephani 1908c).
- *** *Bazzania stolonifera* (Sw.) Trevis., Mem. Reale Ist. Lombardo Sci. (Ser. 3), C. Sci. Mat. 4 (13): 415, 1877 (Trevisan 1877). Bas.: *Jungermannia stolonifera* Sw., Prodr. (Swartz): 144, 1788 (Swartz 1788).
- * *Bazzania stolonifera* var. *granatensis* (Gottsche) Fulford, Ann. Cryptog. Phytopathol. 3: 51, 1946 (Fulford 1946). Bas.: *Mastigobryum stoloniferum* var. *granatense* Gottsche, Ann. Sci. Nat. Bot. (sér. 5) 1: 141, 1864 (Gottsche 1864).
- ** *Bazzania stresemannii* (Herzog) N.Kitag., Bull. Nara Univ. Educ., B 28 (2): 77, 1979 (Kitagawa 1979a). Bas.: *Mastigobryum stresemannii* Herzog, Beih. Bot. Centralbl. 38 (2): 324, 1921 (Herzog 1921).

113 *Bazzania serpentina* is possibly conspecific with *Bazzania bidens* (Frahm et al. 1990).

114 *Bazzania sikkimensis* is possibly conspecific with *Bazzania sumbavensis* (Long and Grolle 1990).

- ** *Bazzania subacuta* (Mitt.) Steph., Bot. Jahrb. Syst. 23 (1/2, 3): 307, 1896 (Stephani 1896a). Bas.: *Mastigobryum subacutum* Mitt., Fl. vit.: 406, 1871 [1873] (Mitten 1871).
- ** *Bazzania subaequitexta* (Steph.) N.Kitag., Bull. Nara Univ. Educ., B 28 (2): 81, 1979 (Kitagawa 1979a). Bas.: *Mastigobryum subaequitextum* Steph., Bull. Herb. Boissier (sér. 2) 8 (11): 859 (483), 1908 (Stephani 1908a).
- ** *Bazzania subintegra* (Steph.) L.Söderstr. et A.Hagborg, Phytotaxa 202 (1): 69, 2015 (Söderström et al. 2015c). Bas.: *Mastigobryum subintegrum* Steph., Bull. Herb. Boissier (sér. 2) 8 (10): 775 (459), 1908 (Stephani 1908c).
- ** *Bazzania sublonga* Fulford, Bull. Torrey Bot. Club 86 (5): 334, 1959 (Fulford 1959b).
- ** *Bazzania subserrifolia* (Beauverd) H.A.Mill., Phytologia 47 (4): 321, 1981 (Miller 1981). Bas.: *Mastigobryum subserrifolium* Beauverd, Sp. Hepat. (Stephani) 6: 480, 1924 (Stephani 1924).
- ** *Bazzania subserrulata* A.Evans, Pap. Michigan Acad. Sci. 17: 97, 1932 [1933] (Evans 1932b).
- *** *Bazzania subtilis* (Sande Lac.) Trevis., Mem. Reale Ist. Lombardo Sci. (Ser. 3), C. Sci. Mat. 4 (13): 414, 1877 (Trevisan 1877). Bas.: *Mastigobryum subtile* Sande Lac., Ann. Mus. Bot. Lugduno-Batavi 1: 302, 1864 (Sande Lacoste 1864).
- ** *Bazzania succulenta* N.Kitag., J. Hattori Bot. Lab. 47: 141, 1980 (Kitagawa 1980).
- ** *Bazzania sumatrana* (Sande Lac. ex Steph.) Steph., Hedwigia 32 (4): 209, 1893 (Stephani 1893c). Bas.: *Mastigobryum sumatranum* Sande Lac. ex Steph., Hedwigia 25 (6): 234, 1886 (Stephani 1886c).
- * *Bazzania sumbavensis* (Gottsche ex Steph.) Steph., Hedwigia 32 (4): 204, 1893 (Stephani 1893c). Bas.: *Mastigobryum sumbavense* Gottsche ex Steph., Hedwigia 25 (6): 236, 1886 (Stephani 1886c).¹¹⁵
- *** *Bazzania taleana* (Gottsche) Fulford, Ann. Cryptog. Phytopathol. 3: 54, 1946 (Fulford 1946). Bas.: *Mastigobryum taleanum* Gottsche, Mexik. Leverm.: 131, 1863 (Gottsche 1863).
- *** *Bazzania tayloriana* (Mitt.) Kuntze, Revis. Gen. Pl. 2: 832, 1891 (Kuntze 1891). Bas.: *Mastigobryum taylorianum* Mitt., Bot. antarct. voy. II (Fl. Nov.-Zel. 2): 147, 1854 (Mitten 1854).
- ** *Bazzania temariana* (Steph.) H.A.Mill., Phytologia 47 (4): 321, 1981 (Miller 1981). Bas.: *Mastigobryum temarianum* Steph., Sp. Hepat. (Stephani) 3: 532, 1909 (Stephani 1909a).
- *** *Bazzania tessellata* Meagher, Nova Hedwigia 92 (3/4): 492, 2011 (Meagher 2011).
- ** *Bazzania tiaoloensis* Mizut. et K.C.Chang, J. Hattori Bot. Lab. 60: 432, 1986 (Mizutani and Chang 1986).
- *** *Bazzania tricrenata* (Wahlenb.) Lindb., Musci Fenn. Exsic., fasc. 2: [2 (adnot.)], 1872 (Brotherus 1872). Bas.: *Jungermannia tricrenata* Wahlenb., Fl. Carpat. Princ.: 364, 1814 (Wahlenberg 1814).
- ** *Bazzania tricrenata* var. *fulfordiae* W.S.Hong, Bryologist 91 (4): 331, 1988 (Hong 1988).

¹¹⁵ *Bazzania sumbavensis* is possibly conspecific with *Bazzania japonica* (Söderström et al. 2010a).

- *** *Bazzania tridens* (Reinw., Blume et Nees) Trevis., Mem. Reale Ist. Lombardo Sci. (Ser. 3), C. Sci. Mat. 4 (13): 415, 1877 (Trevisan 1877). Bas.: *Jungermannia tridens* Reinw., Blume et Nees, Nova Acta Phys.-Med. Acad. Caes. Leop.-Carol. Nat. Cur. 12 (1): 228, 1824 [1825] (Reinwardt et al. 1824a).
- *** *Bazzania tridens* var. *assamica* (Steph.) Pócs, J. Hattori Bot. Lab. 32: 86, 1969 (Pócs 1969). Bas.: *Mastigobryum assamicum* Steph., Hedwigia 24 (5): 216, 1885 (Stephani 1885a).
- ** *Bazzania tridens* var. *cornutistipula* (Steph.) Pócs, J. Hattori Bot. Lab. 32: 83, 1969 (Pócs 1969). Bas.: *Mastigobryum cornutistipulum* Steph., Rev. Bryol. 35 (2): 35, 1908 (Stephani 1908l).
- *** *Bazzania trilobata* (L.) Gray, Nat. Arr. Brit. Pl. 1: 704, 1821 (Gray 1821). Bas.: *Jungermannia trilobata* L., Sp. Pl. 1: 1133, 1753 (Linnaeus 1753).
- ** *Bazzania trilobata* var. *depauperata* (Müll.Frib.) Grolle, Lindbergia 1 (3/4): 197, 1972 [1973] (Grolle 1972b). Bas.: *Pleuroschisma trilobatum* var. *depauperatum* Müll.Frib., Lebermoose 2 (18): 266, 1913 (Müller 1913b).
- *** *Bazzania uncigera* (Reinw., Blume et Nees) Trevis., Mem. Reale Ist. Lombardo Sci. (Ser. 3), C. Sci. Mat. 4 (13): 415, 1877 (Trevisan 1877). Bas.: *Jungermannia uncigera* Reinw., Blume et Nees, Nova Acta Phys.-Med. Acad. Caes. Leop.-Carol. Nat. Cur. 12 (1): 230, 1824 [1825] (Reinwardt et al. 1824a).
- ** *Bazzania uncigera* var. *brevifolia* Herzog, Trans. Brit. Bryol. Soc. 1 (4): 301, 1950 (Herzog 1950a).
- ** *Bazzania uncigera* var. *gibba* (Sande Lac.) Meijer, Blumea 10 (2): 378, 1960 (Meijer 1960). Bas.: *Mastigobryum gibbum* Sande Lac., Plagiochila Sandei: 8, 1856 (Sande Lacoste 1856c).
- ** *Bazzania undulata* Herzog, Trans. Brit. Bryol. Soc. 1 (4): 306, 1950 (Herzog 1950a).
- ** *Bazzania vietnamica* Pócs, J. Hattori Bot. Lab. 32: 90, 1969 (Pócs 1969).
- ** *Bazzania vitiana* Mitt., Hedwigia 32 (4): 214, 1893 (Stephani 1893c).
- *** *Bazzania vittata* (Gottsche) Trevis., Mem. Reale Ist. Lombardo Sci. (Ser. 3), C. Sci. Mat. 4 (13): 414, 1877 (Trevisan 1877). Bas.: *Mastigobryum vittatum* Gottsche, Syn. Hepat. 2: 216, 1845 (Gottsche et al. 1845a).
- ** *Bazzania vittata* var. *luxurians* (De Not.) Schiffn., Consp. Hepat. Arch. Ind.: 178, 1898 (Schiffner 1898b). Bas.: *Mastigobryum vittatum* var. *luxurians* De Not., Epat. Borneo: 29, 1874 (De Notaris 1874).
- ** *Bazzania wallichiana* (Lindenb.) Trevis., Mem. Reale Ist. Lombardo Sci. (Ser. 3), C. Sci. Mat. 4 (13): 415, 1877 (Trevisan 1877). Bas.: *Mastigobryum wallichianum* Lindenb., Syn. Hepat. 2: 229, 1845 (Gottsche et al. 1845a).¹¹⁶
- ** *Bazzania watanabei* Inoue, J. Jap. Bot. 34 (9): 269, 1959 (Inoue 1959a).
- * *Bazzania wattiana* (Steph.) Meagher, Australas. Bryol. Newslett. 50: 8, 2005 (Meagher 2005b). Bas.: *Mastigobryum wattianum* Steph., Bull. Herb. Boissier (sér. 2) 8 (11): 850 (474), 1908 (Stephani 1908a).¹¹⁷

116 *Bazzania wallichiana* seems to be a species complex also including *Bazzania francana*, *Bazzania intermedia* and *Bazzania marginata* (Meagher 2010).

117 *Bazzania wattiana* is possibly conspecific with *Bazzania tridens* (Meagher 2010).

- ** *Bazzania wiltensii* (Sande Lac. ex Steph.) Schiffn., Consp. Hepat. Arch. Ind.: 180, 1898 (Schiffner 1898b). Bas.: *Mastigobryum wiltensii* Sande Lac. ex Steph., Hedwigia 25 (6): 237, 1886 (Stephani 1886c).
- ** *Bazzania wooroonooran* Meagher, Nova Hedwigia 100 (3/4): 549, 2015 (Meagher 2015).
- ** *Bazzania wrightii* (Gottsche ex Steph.) Steph., Hedwigia 27 (11/12): 279, 1888 (Stephani 1888c). Bas.: *Mastigobryum wrightii* Gottsche ex Steph., Hedwigia 25 (6): 237, 1886 (Stephani 1886c).
- ** *Bazzania yoshinagana* (Steph.) Yasuda, Shokubutsugaku Kakuron: 711, 1911 (Yasuda 1911). Bas.: *Mastigobryum yoshinaganum* Steph., Bull. Herb. Boissier (sér. 2) 8 (11): 866 (490), 1908 (Stephani 1908a).
- ** *Bazzania zollingeri* (Lindenb.) Trevis., Mem. Reale Ist. Lombardo Sci. (Ser. 3), C. Sci. Mat. 4 (13): 414, 1877 (Trevisan 1877). Bas.: *Mastigobryum zollingeri* Lindenb., Bot. Zeitung (Berlin) 6 (25): 462, 1848 (Meissner 1848).
- *** *Bazzania zonulata* Meagher, Nova Hedwigia 86 (3/4): 491, 2008 (Meagher 2008).
- * *Mastigopelma* Mitt., Fl. vit.: 406, 1871 [1873] (Mitten 1871).¹¹⁸
- ** *Mastigopelma fragile* (Steph.) N.Kitag., J. Hattori Bot. Lab. 36: 454, 1972 [1973] (Kitagawa 1972). Bas.: *Mastigobryum fragile* Steph., Sp. Hepat. (Stephani) 6: 463, 1924 (Stephani 1924).
- ** *Mastigopelma pulvinulatum* (De Not.) Grolle, J. Hattori Bot. Lab. 33: 39, 1970 (Grolle 1970c). Bas.: *Mastigobryum pulvinulatum* De Not., Epat. Borneo: 40, 1874 (De Notaris 1874).
- ** *Mastigopelma simplex* Mitt., Fl. vit.: 406, 1871 [1873] (Mitten 1871).
- ** *Mastigopelma subfissum* Grolle, J. Hattori Bot. Lab. 33: 36, 1970 (Grolle 1970c).
- *** **Drucelloideae R.M.Schust.**
- *** *Drucella* E.A.Hodgs., Trans. Roy. Soc. New Zealand, Bot. 2 (3): 45, 1962 (Hodgson 1962b).
- *** *Drucella integristipula* (Steph.) E.A.Hodgs., Trans. Roy. Soc. New Zealand, Bot. 2 (3): 45, 1962 (Hodgson 1962b). Bas.: *Lepidozia integristipula* Steph., Sp. Hepat. (Stephani) 6: 331, 1922 (Stephani 1922).
- *** **Lembidioideae R.M.Schust.**
- ** *Dendrolembidium* Herzog, Ark. Bot. (n.ser.) 1 (13): 497, 1951 (Herzog 1951b).
- *** *Dendrolembidium dendroides* (Carrington et Pearson) Herzog, Ark. Bot. (n.ser.) 1 (13): 500, 1951 (Herzog 1951b). Bas.: *Lembidium dendroides* Carrington et Pearson,

¹¹⁸ *Mastigopelma* may be better placed in *Bazzania*, but it is retained here until further studied.

- Proc. Linn. Soc. New South Wales (ser. 2) 2 (4): 1047, 1888 (Carrington and Pearson 1888a).
- *** *Dendrolembidium tenax* (Grev.) Herzog, Ark. Bot. (n.ser.) 1 (13): 499, 1951 (Herzog 1951b). Bas.: *Jungermannia tenax* Grev., Ann. Lyceum Nat. Hist. New York 1 (2): 277, 1825 (Greville 1825).
- ** *Hygrolembidium* R.M.Schust., J. Hattori Bot. Lab. 26: 277, 1963 (Schuster 1963b).
- *** *Hygrolembidium acrocladum* (Berggr.) R.M.Schust., J. Hattori Bot. Lab. 26: 277, 1963 (Schuster 1963b). Bas.: *Aplozia acroclada* Berggr., New Zealand Hepat.: 9, 1898 (Berggren 1898).
- ** *Hygrolembidium andinum* (Herzog) R.M.Schust., Nova Hedwigia 10 (1/2): 23, 1965 (Schuster 1965b). Bas.: *Lembidium andinum* Herzog, Rev. Bryol. Lichénol. 23 (1/2): 48, 1954 (Herzog 1954).
- *** *Hygrolembidium australe* (Steph.) Grolle, J. Jap. Bot. 41 (8): 229, 1966 (Grolle 1966d). Bas.: *Hygrobiella australis* Steph., Bull. Herb. Boissier (sér. 2) 8 (8): 574 (358), 1908 (Stephani 1908e).
- *** *Hygrolembidium boschianum* (Sande Lac.) R.M.Schust., J. Hattori Bot. Lab. 26: 277, 1963 (Schuster 1963b). Bas.: *Jungermannia boschiana* Sande Lac., Ned. Kruidk. Arch. 3: 521, 1855 (Sande Lacoste 1855).
- ** *Hygrolembidium isophyllum* R.M.Schust., Nova Hedwigia 15: 467, 1968 (Schuster 1968b).
- *** *Hygrolembidium rigidum* R.M.Schust. et J.J.Engel, Phytologia 62 (1): 9, 1987 (Schuster and Engel 1987a).
- *** *Hygrolembidium triquetrum* J.J.Engel et R.M.Schust., Phytologia 62 (1): 11, 1987 (Schuster and Engel 1987a).
- ** *Hygrolembidium ventrosum* (Mitt.) Grolle, Marion Prince Edw. Is: 233, 1971 (Grolle 1971d). Bas.: *Lembidium ventrosum* Mitt., J. Linn. Soc., Bot. 15 (82): 69, 1876 (Mitten 1876a).
- ** *Isolembidium* R.M.Schust., Nova Hedwigia 15: 466, 1968 (Schuster 1968b).
- *** *Isolembidium anomalum* (Rodway) Grolle, J. Bryol. 10 (3): 264, 1979 (Grolle 1979b). Bas.: *Lembidium anomalum* Rodway, Tasm. Bryoph.: 70, 1917 (Rodway 1917b).
- ** *Isolembidium anomalum* var. *cucullatum* (E.A.Hodgs.) J.J.Engel et R.M.Schust., J. Hattori Bot. Lab. 63: 268, 1987 (Schuster and Engel 1987b). Bas.: *Lembidium cucullatum* E.A.Hodgs., Rec. Domin. Mus. 4 (11): 110, 1962 (Hodgson 1962a).
- *** *Kurzia* G.Martens, Flora 53 (27): 417, 1870 (0).
- ** **subg. *Kurzia***
- *** *Kurzia capillaris* (Sw.) Grolle, Rev. Bryol. Lichénol. 32 (3/4): 173, 1963 [1964] (Grolle 1963b). Bas.: *Jungermannia capillaris* Sw., Prodr. (Swartz): 144, 1788 (Swartz 1788).

- *** *Kurzia capillaris* subsp. *capillaris* var. *verrucosa* (Steph.) Pócs, Proc. Third Meeting Bryol. C. & E. Europe: 111, 1984 (Pócs 1984b). Bas.: *Lepidozia verrucosa* Steph., Hedwigia 24 (4): 167, 1885 (Stephani 1885f).
- *** *Kurzia capillaris* subsp. *paramicola* Pócs, Acta Biol. Pl. Agr. 2: 102, 2012 (Pócs 2012a).
- *** *Kurzia capillaris* subsp. *stephanii* (Renauld ex Steph.) Pócs, Proc. Third Meeting Bryol. C. & E. Europe: 111, 1984 (Pócs 1984b). Bas.: *Lepidozia stephanii* Renauld ex Steph., Bot. Gaz. 15 (11): 287, 1890 (Stephani 1890c).
- *** *Kurzia gonyotricha* (Sande Lac.) Grolle, Rev. Bryol. Lichénol. 32 (3/4): 167, 1963 [1964] (Grolle 1963b). Bas.: *Lepidozia gonyotricha* Sande Lac., Ned. Kruidk. Arch. 3: 521, 1855 (Sande Lacoste 1855).
- ** *Kurzia nemoides* (Hook.f. et Taylor) Grolle, Rev. Bryol. Lichénol. 32 (3/4): 173, 1963 [1964] (Grolle 1963b). Bas.: *Jungermannia nemoides* Hook.f. et Taylor, London J. Bot. 4: 84, 1845 (Hooker and Taylor 1845).
- ** **subg. *Micrisophylla* (Fulford) J.J.Engel ex R.M.Schust.**, J. Hattori Bot. Lab. 48: 347, 1980 (Schuster 1980a). Bas.: *Micrisophylla* Fulford, Brittonia 14 (1): 124, 1962 (Fulford 1962a).
- ** *Kurzia saddlensis* (Besch. et C.Massal.) Grolle, Rev. Bryol. Lichénol. 32 (3/4): 174, 1963 [1964] (Grolle 1963b). Bas.: *Lepidozia saddlensis* Besch. et C.Massal., Bull. Mens. Soc. Linn. Paris 1 (79): 637, 1886 (Bescherelle and Massalongo 1886).
- ** **subg. *Microlepidozia* (Spruce) R.M.Schust.**, J. Hattori Bot. Lab. 48: 355, 1980 (Schuster 1980a). Bas.: *Lepidozia* subg. *Microlepidozia* Spruce, J. Bot. 14: 165, 1876 (Spruce 1876b).
- ** *Kurzia calcarata* (Steph.) Grolle, Rev. Bryol. Lichénol. 32 (3/4): 178, 1963 [1964] (Grolle 1963b). Bas.: *Lepidozia calcarata* Steph., Sp. Hepat. (Stephani) 3: 592, 1909 (Stephani 1909a).
- ** *Kurzia compacta* (Steph.) Grolle, Rev. Bryol. Lichénol. 32 (3/4): 178, 1963 [1964] (Grolle 1963b). Bas.: *Lepidozia compacta* Steph., Sp. Hepat. (Stephani) 3: 592, 1909 (Stephani 1909a).
- ** *Kurzia helophila* R.M.Schust., J. Hattori Bot. Lab. 48: 368, 1980 (Schuster 1980a).
- ** *Kurzia helophila* var. *flaccida* R.M.Schust. ex J.J.Engel, Novon 17 (3): 310, 2007 (Engel 2007).
- *** *Kurzia hippurioides* (Hook.f. et Taylor) Grolle, Rev. Bryol. Lichénol. 32 (3/4): 178, 1963 [1964] (Grolle 1963b). Bas.: *Jungermannia hippurioides* Hook.f. et Taylor, London J. Bot. 3: 287 [387], 1844 (Hooker and Taylor 1844a).
- ** *Kurzia hippurioides* var. *ornata* J.J.Engel et G.L.Merr., J. Hattori Bot. Lab. 80: 228, 1996 (Engel and Smith Merrill 1996).
- ** *Kurzia irregularis* (Steph.) Grolle, J. Hattori Bot. Lab. 36: 548, 1972 [1973] (Grolle 1972a). Bas.: *Lepidozia irregularis* Steph., Wiss. Ergebn. Deut. Zentr.-Afr. Exped. (1907-08), Bot. 2: 120, 1911 (Stephani 1911a).
- ** *Kurzia moniliformis* J.J.Engel, Cryptog. Bryol. 26 (1): 73, 2005 (Engel 2005).

- *** *Kurzia pauciflora* (Dicks.) Grolle, Rev. Bryol. Lichénol. 32 (3/4): 171, 1963 [1964] (Grolle 1963b). Bas.: *Jungermannia pauciflora* Dicks., Fasc. Pl. Crypt. Brit. 2: 15, 1790 (Dickson 1790).

Incertae sedis

- ** *Kurzia abbreviata* Mizut., J. Hattori Bot. Lab. 38: 379, 1974 (Mizutani 1974).
- ** *Kurzia abietinella* (Herzog) Grolle, Rev. Bryol. Lichénol. 32 (3/4): 170, 1963 [1964] (Grolle 1963b). Bas.: *Lepidozia abietinella* Herzog, Trans. Brit. Bryol. Soc. 1 (4): 311, 1950 (Herzog 1950a).
- *** *Kurzia bisetula* (Steph.) Grolle, Rev. Bryol. Lichénol. 32 (3/4): 170, 1963 [1964] (Grolle 1963b). Bas.: *Lepidozia bisetula* Steph., Sp. Hepat. (Stephani) 6: 323, 1922 (Stephani 1922).
- ** *Kurzia borneensis* Mizut., J. Hattori Bot. Lab. 38: 377, 1974 (Mizutani 1974).
- ** *Kurzia brasiliensis* (Steph.) Grolle, Rev. Bryol. Lichénol. 32 (3/4): 174, 1963 [1964] (Grolle 1963b). Bas.: *Psiloclada brasiliensis* Steph., Sp. Hepat. (Stephani) 3: 550, 1909 (Stephani 1909a).
- ** *Kurzia brevicalcina* (Steph.) Grolle, Rev. Bryol. Lichénol. 32 (3/4): 175, 1963 [1964] (Grolle 1963b). Bas.: *Lepidozia brevicalcina* Steph., Sp. Hepat. (Stephani) 3: 580, 1909 (Stephani 1909a).
- * *Kurzia caduciloba* R.M.Schust., Beih. Nova Hedwigia 118: 273, 2000 (Schuster 2000a).
- * *Kurzia cucullifolia* (Steph.) R.M.Schust., J. Hattori Bot. Lab. 48: 350, 1980 (Schuster 1980a). Bas.: *Lepidozia cucullifolia* Steph., Bih. Kongl. Svenska Vetensk.-Akad. Handl. 26 (III, 6): 51, 1900 (Stephani 1900b).¹¹⁹
- *** *Kurzia flagellifera* (Steph.) Grolle, J. Jap. Bot. 39 (3): 80, 1964 (Grolle 1964c). Bas.: *Lepidozia flagellifera* Steph., Sp. Hepat. (Stephani) 3: 571, 1909 (Stephani 1909a).
- *** *Kurzia fragilifolia* R.M.Schust., J. Hattori Bot. Lab. 48: 364, 1980 (Schuster 1980a).
- ** *Kurzia fragillima* (Herzog) Grolle, Rev. Bryol. Lichénol. 32 (3/4): 174, 1963 [1964] (Grolle 1963b). Bas.: *Lepidozia fragillima* Herzog, Nat. Hist. Juan Fernandez (Botany) 2 (5): 726, 1942 (Herzog 1942a), *nom. illeg.*
- ** *Kurzia geniculata* Mizut., J. Hattori Bot. Lab. 38: 383, 1974 (Mizutani 1974).
- ** *Kurzia hawaica* (C.M.Cooke) Grolle, Rev. Bryol. Lichénol. 32 (3/4): 170, 1963 [1964] (Grolle 1963b). Bas.: *Lepidozia hawaica* C.M.Cooke, Trans. Connecticut Acad. Arts 12 (1): 8, 1904 (Cooke 1904).
- ** *Kurzia hispida* (Steph.) Grolle, Rev. Bryol. Lichénol. 32 (3/4): 170, 1963 [1964] (Grolle 1963b). Bas.: *Lepidozia hispida* Steph., Sp. Hepat. (Stephani) 3: 607, 1909 (Stephani 1909a).

119 *Kurzia cucullifolia* is of doubtful status (Engel 1978).

- ** *Kurzia lateconica* (Steph.) Grolle, Rev. Bryol. Lichénol. 32 (3/4): 175, 1963 [1964] (Grolle 1963b). Bas.: *Lepidozia lateconica* Steph., J. & Proc. Roy. Soc. New South Wales 48 (1/2): 113, 1914 (Stephani and Watts 1914).
- ** *Kurzia lineariloba* Mizut., J. Hattori Bot. Lab. 38: 382, 1974 (Mizutani 1974).
- *** *Kurzia longicaulis* Piippo, Acta Bot. Fenn. 131: 174, 1985 (Piippo 1985b).
- ** *Kurzia makinoana* (Steph.) Grolle, Rev. Bryol. Lichénol. 32 (3/4): 171, 1963 [1964] (Grolle 1963b). Bas.: *Lepidozia makinoana* Steph., Bull. Herb. Boissier 5 (2): 94, 1897 (Stephani 1897b).
- ** *Kurzia mauiensis* (H.A.Mill.) H.A.Mill., J. Hattori Bot. Lab. 30: 274, 1967 (Miller 1967). Bas.: *Microlepidozia mauiensis* H.A.Mill., Ark. Bot. (n.ser.) 5 (2): 496, 1963 (Miller 1963).
- ** *Kurzia mollis* (Steph.) J.J.Engel et R.M.Schust., Bryologist 79 (4): 514, 1976 [1977] (Engel 1976b). Bas.: *Lepidozia mollis* Steph., Sp. Hepat. (Stephani) 3: 601, 1909 (Stephani 1909a).
- *** *Kurzia nivicola* (R.M.Schust.) E.D.Cooper, Phytotaxa 97 (2): 52, 2013 (Cooper et al. 2013). Bas.: *Telaranea nivicola* R.M.Schust., Nova Hedwigia 15: 460, 1968 (Schuster 1968b).
- *** *Kurzia pallescens* Grolle, Rev. Bryol. Lichénol. 32 (3/4): 177, 1963 [1964] (Grolle 1963b).
- ** *Kurzia pallida* Piippo, Acta Bot. Fenn. 131: 178, 1985 (Piippo 1985b).
- *** *Kurzia quinquespina* J.J.Engel et G.L.Merr., J. Hattori Bot. Lab. 80: 217, 1996 (Engel and Smith Merrill 1996).
- ** *Kurzia reversa* (Carrington et Pearson) Grolle, Rev. Bryol. Lichénol. 32 (3/4): 175, 1963 [1964] (Grolle 1963b). Bas.: *Lepidozia reversa* Carrington et Pearson, J. Bot. 27: 225, 1889 (Carrington and Pearson 1889).
- ** *Kurzia setiformis* (De Not.) J.J.Engel et R.M.Schust., Bryologist 79 (4): 514, 1976 [1977] (Engel 1976b). Bas.: *Lepidozia setiformis* De Not., Mem. Reale Accad. Sci. Torino (ser. 2) 16: 225, 1857 (De Notaris 1857).
- ** *Kurzia sexfida* (Steph.) Grolle, Rev. Bryol. Lichénol. 32 (3/4): 178, 1963 [1964] (Grolle 1963b). Bas.: *Lepidozia sexfida* Steph., Sp. Hepat. (Stephani) 3: 582, 1909 (Stephani 1909a).
- ** *Kurzia sinensis* K.C.Chang, Bull. Bot. Res., Harbin 4 (3): 83, 1984 (Chang and Gao 1984).
- ** *Kurzia sylvatica* (A.Evans) Grolle, Herzogia 3: 77, 1973 (Grolle 1973a). Bas.: *Lepidozia sylvatica* A.Evans, Rhodora 6 (69): 186, 1904 (Evans 1904b).
- *** *Kurzia tasmanica* (Steph.) E.D.Cooper, Phytotaxa 97 (2): 52, 2013 (Cooper et al. 2013). Bas.: *Lepidozia tasmanica* Steph., Sp. Hepat. (Stephani) 3: 580, 1909 (Stephani 1909a).
- ** *Kurzia tayloriana* (H.A.Mill.) H.A.Mill., J. Hattori Bot. Lab. 30: 274, 1967 (Miller 1967). Bas.: *Microlepidozia tayloriana* H.A.Mill., Ark. Bot. (n.ser.) 5 (2): 497, 1963 (Miller 1963).

- ** *Kurzia tenerrima* (Mitt.) Grolle, Rev. Bryol. Lichénol. 32 (3/4): 171, 1963 [1964] (Grolle 1963b). Bas.: *Lepidozia tenerrima* Mitt., Sp. Hepat. (Stephani) 3: 607, 1909 (Stephani 1909a).
- ** *Kurzia touwii* N.Kitag., Acta Phytotax. Geobot. 29 (1/5): 56, 1978 (Kitagawa 1978).
- ** *Kurzia trichoclados* (Müll.Frib.) Grolle, Rev. Bryol. Lichénol. 32 (3/4): 171, 1963 [1964] (Grolle 1963b). Bas.: *Lepidozia trichoclados* Müll.Frib., Hedwigia 38 (4): 197, 1899 (Müller 1899).
- *** *Kurzia trilobata* (R.M.Schust.) R.M.Schust., Beih. Nova Hedwigia 118: 270, 2000 (Schuster 2000a). Bas.: *Kurzia quadriseta* var. *trilobata* R.M.Schust., J. Hattori Bot. Lab. 48: 363, 1980 (Schuster 1980a).
- ** *Kurzia verticellata* (Carrington) Grolle, Rev. Bryol. Lichénol. 32 (3/4): 178, 1963 [1964] (Grolle 1963b). Bas.: *Lepidozia verticellata* Carrington, Pap. & Proc. Roy. Soc. Tasmania 1887: 3, 1888 (Carrington and Pearson 1888b).
- ** ***Lembidium* Mitt.**, Handb. N. Zeal. fl. 2: 754, 1867 (Hooker 1867) nom. conserv.
- *** *Lembidium berggrenii* Herzog, Ark. Bot. (n.ser.) 1 (13): 485, 1951 (Herzog 1951b).
- *** *Lembidium longifolium* R.M.Schust., Phytologia 45 (5): 420, 1980 (Schuster 1980b).
- *** *Lembidium nutans* (Hook.f. et Taylor) Mitt., Handb. N. Zeal. Fl. 2: 754, 1867 (Mitten 1867). Bas.: *Jungermannia nutans* Hook.f. et Taylor, London J. Bot. 3: 289 [389], 1844 (Hooker and Taylor 1844a).
- ** *Lembidium nutans* var. *flagelliferum* E.A.Hodgs., Rec. Domin. Mus. 4 (11): 110, 1962 (Hodgson 1962a).
- ** ***Megalembidium* R.M.Schust.**, J. Hattori Bot. Lab. 26: 258, 1963 (Schuster 1963b).
- *** *Megalembidium insulanum* (W.Martin et E.A.Hodgs.) R.M.Schust., J. Hattori Bot. Lab. 26: 258, 1963 (Schuster 1963b). Bas.: *Lembidium insulanum* W.Martin et E.A.Hodgs., Trans. & Proc. Roy. Soc. New Zealand 78 (4): 497, 1950 (Martin 1950).
- ** ***Pseudocephalozia* R.M.Schust.**, Nova Hedwigia 10 (1/2): 21, 1965 (Schuster 1965b).
- ** **sect. *Lobulatae* R.M.Schust.**, J. Hattori Bot. Lab. 36: 371, 1972 (Schuster 1972).
- ** *Pseudocephalozia cucullata* J.J.Engel et R.M.Schust., J. Hattori Bot. Lab. 38: 694, 1974 (Schuster and Engel 1974).
- *** *Pseudocephalozia lobulata* (Herzog) R.M.Schust., J. Hattori Bot. Lab. 36: 371, 1972 [1973] (Schuster 1972). Bas.: *Lembidium lobulatum* Herzog, Arch. Esc. Fárm. Fac. Ci. Méd. Córdoba 7: 24, 1938 (Herzog and Hosseus 1938).
- *** *Pseudocephalozia quadriloba* (Steph.) R.M.Schust., J. Hattori Bot. Lab. 36: 371, 1972 [1973] (Schuster 1972). Bas.: *Isotachis quadriloba* Steph., Bih. Kongl. Svenska Vetensk.-Akad. Handl. 26 (III, 6): 54, 1900 (Stephani 1900b).

** **sect. *Pseudocephalozia***

- ** *Pseudocephalozia lepidozoioides* R.M.Schust., Nova Hedwigia 10 (1/2): 22, 1965 (Schuster 1965b).
- ** *Pseudocephalozia leptodictyon* R.M.Schust., J. Hattori Bot. Lab. 36: 369, 1972 [1973] (Schuster 1972).
- *** *Pseudocephalozia paludicola* R.M.Schust., Nova Hedwigia 10 (1/2): 21, 1965 (Schuster 1965b).

*** **Lepidozioideae Müll.Frib.**

- *** ***Ceramanus* E.D.Cooper**, Phytotaxa 97 (2): 53, 2013 (Cooper et al. 2013).
- *** *Ceramanus centipes* (Lindenb. et Gottsche) E.D.Cooper, Phytotaxa 97 (2): 54, 2013 (Cooper et al. 2013). Bas.: *Lepidozia centipes* Lindenb. et Gottsche, Syn. Hepat. 2: 204, 1845 (Gottsche et al. 1845a).
- *** *Ceramanus clatritexta* (Steph.) E.D.Cooper, Phytotaxa 97 (2): 54, 2013 (Cooper et al. 2013). Bas.: *Lepidozia clatritexta* Steph., Sp. Hepat. (Stephani) 3: 583, 1909 (Stephani 1909a).
- *** *Ceramanus elegans* (Colenso) E.D.Cooper, Phytotaxa 97 (2): 54, 2013 (Cooper et al. 2013). Bas.: *Lepidozia elegans* Colenso, Trans. & Proc. New Zealand Inst. 21: 65, 1889 (Colenso 1889).
- *** *Ceramanus grossiseta* (Steph.) E.D.Cooper, Phytotaxa 97 (2): 54, 2013 (Cooper et al. 2013). Bas.: *Lepidozia grossiseta* Steph., Sp. Hepat. (Stephani) 3: 584, 1909 (Stephani 1909a).
- *** *Ceramanus perfragilis* (J.J.Engel et G.L.Merr.) E.D.Cooper, Phytotaxa 97 (2): 54, 2013 (Cooper et al. 2013). Bas.: *Telaranea perfragilis* J.J.Engel et G.L.Merr., Fieldiana, Bot. (n.ser.) 44: 72, 2004 (Engel and Smith Merrill 2004).
- *** *Ceramanus pruinosa* (Herzog) E.D.Cooper, Phytotaxa 97 (2): 54, 2013 (Cooper et al. 2013). Bas.: *Lepidozia pruinosa* Herzog, Memoranda Soc. Fauna Fl. Fennica 27: 93, 1952 (Herzog 1952c).
- *** *Ceramanus tuberifera* (J.J.Engel et R.M.Schust.) E.D.Cooper, Phytotaxa 97 (2): 54, 2013 (Cooper et al. 2013). Bas.: *Telaranea tuberifera* J.J.Engel et R.M.Schust., Fieldiana, Bot. (n.ser.) 14: 2, 1983 (Engel and Schuster 1983).
- *** ***Lepidozia* (Dumort.) Dumort.**, Recueil Observ. Jungerm.: 19, 1835 (Dumortier 1835) nom. conserv. Bas.: *Pleuroschisma* sect. *Lepidozia* Dumort., Syll. Jungerm. Europ.: 69, 1831 (Dumortier 1831).¹²⁰
- ** *Lepidozia acantha* J.J.Engel, Fieldiana, Bot. (n.ser.) 42: 71, 2001 (Engel and Schuster 2001).

120 *Lepidozia* seems to be a monophyletic genus, but its infrataxonomy still has to be tested using molecular data. Grolle and Piippo (1984) could not study *Lepidozia cordistipula* and *Lepidozia palmicola* since the types were destroyed in B.

- ** *Lepidozia aequiloba* Steph., Sp. Hepat. (Stephani) 6: 319, 1922 (Stephani 1922).
- ** *Lepidozia africana* Steph., Sp. Hepat. (Stephani) 6: 320, 1922 (Stephani 1922).
- *** *Lepidozia alstonii* Fulford, Mem. New York Bot. Gard. 11 (2): 211, 1966 (Fulford 1966).
- ** *Lepidozia ambigua* De Not., Epat. Borneo: 25, 1874 (De Notaris 1874).
- ** *Lepidozia andicola* Beauverd, Sp. Hepat. (Stephani) 6: 572, 1924 (Stephani 1924). *Nom. nov. pro Lepidozia appendiculata* Steph., Biblioth. Bot. 87 (2): 225, 1916 (Stephani 1916a), *nom. illeg.*
- ** *Lepidozia appressifolia* Steph., Sp. Hepat. (Stephani) 3: 583, 1909 (Stephani 1909a).
- *** *Lepidozia armata* Steph., Sp. Hepat. (Stephani) 3: 567, 1909 (Stephani 1909a).
- ** *Lepidozia asymmetrica* Steph., Sp. Hepat. (Stephani) 3: 586, 1909 (Stephani 1909a).
- ** *Lepidozia auriculata* Mitt., Sp. Hepat. (Stephani) 3: 579, 1909 (Stephani 1909a).
- ** *Lepidozia australis* (Lehm. et Lindenb.) Mitt., Fl. vit.: 406, 1871 [1873] (Mitten 1871). Bas.: *Jungermannia australis* Lehm. et Lindenb., Nov. Stirp. Pug. 6: 28, 1834 (Lehmann 1834).
- ** *Lepidozia bidens* J.J.Engel, Fieldiana, Bot. (n.ser.) 42: 79, 2001 (Engel and Schuster 2001).
- ** *Lepidozia biloba* Herzog, Ann. Bryol. 4: 83, 1931 (Herzog 1931b).
- *** *Lepidozia bisbifida* Steph., Sp. Hepat. (Stephani) 3: 593, 1909 (Stephani 1909a).
- ** *Lepidozia borneensis* Steph., Sp. Hepat. (Stephani) 3: 625, 1909 (Stephani 1909a).
- ** *Lepidozia bragginsiana* E.D.Cooper et M.A.M.Renner, Phytotaxa 173 (2): 118, 2014 (Cooper and Renner 2014).
- * *Lepidozia brasiliensis* Steph., Sp. Hepat. (Stephani) 3: 571, 1909 (Stephani 1909a).¹²¹
- ** *Lepidozia brevidentata* Mitt., Fl. vit.: 406, 1871 [1873] (Mitten 1871).
- ** *Lepidozia brevifolia* Mitt., J. Proc. Linn. Soc., Bot. 5 (18): 104, 1860 [1861] (Mitten 1860c).
- ** *Lepidozia brevifolia* var. *planifolia* Schiffn., Ann. Bryol. 8: 155, 1935 (Verdoorn 1935).
- ** *Lepidozia brotheri* Steph., Sp. Hepat. (Stephani) 3: 623, 1909 (Stephani 1909a).
- ** *Lepidozia buffalona* Steph., J. & Proc. Roy. Soc. New South Wales 48 (1/2): 111, 1914 (Stephani and Watts 1914).
- ** *Lepidozia bursifera* S.Hatt. et Grolle, J. Hattori Bot. Lab. 30: 115, 1967 (Grolle 1967b).
- ** *Lepidozia caespitosa* Spruce, Trans. & Proc. Bot. Soc. Edinburgh 15: 362, 1885 (Spruce 1885).
- ** *Lepidozia caledonica* Steph., Rev. Bryol. 35 (2): 31, 1908 (Stephani 1908l).
- ** *Lepidozia caledonica* var. *tenuisecta* Hürl., Bauhinia 8 (2): 109, 1985 (Hürlimann 1985).
- * *Lepidozia ceramensis* Herzog, Hedwigia 66 (6): 340, 1926 (Herzog 1926).
- ** *Lepidozia cherydrion* Hürl., Bauhinia 8 (2): 109, 1985 (Hürlimann 1985).
- ** *Lepidozia chiloensis* Steph., Sp. Hepat. (Stephani) 6: 322, 1922 (Stephani 1922).

121 *Lepidozia brasiliensis* is conspecific with *Kurzia brasiliensis* in Pócs (1984b), possibly conspecific with *Lepidozia cupressina* in Gradstein and Costa (2003), but it has later been accepted by many authors (e.g. Schäfer-Verwimp and Pócs 2009)

- ** *Lepidozia chordulifera* Taylor, London J. Bot. 5: 371, 1846 (Taylor 1846b).
- *** *Lepidozia cladorhiza* (Reinw., Blume et Nees) Nees, Syn. Hepat. 2: 210, 1845 (Gottsche et al. 1845a). Bas.: *Jungermannia cladorhiza* Reinw., Blume et Nees, Nova Acta Phys.-Med. Acad. Caes. Leop.-Carol. Nat. Cur. 12 (1): 203, 1824 [1825] (Reinwardt et al. 1824a).
- *** *Lepidozia coilophylla* Taylor, London J. Bot. 5: 370, 1846 (Taylor 1846b).
- ** *Lepidozia coilophylla* var. *apiculiloba* (Steph.) Fulford, Mem. New York Bot. Gard. 11 (2): 194, 1966 (Fulford 1966). Bas.: *Lepidozia apiculiloba* Steph., Sp. Hepat. (Stephani) 6: 321, 1922 (Stephani 1922).
- ** *Lepidozia communis* Steph., J. & Proc. Roy. Soc. New South Wales 48 (1/2): 111, 1914 (Stephani and Watts 1914).
- *** *Lepidozia concinna* Colenso, Trans. & Proc. New Zealand Inst. 18: 244, 1886 (Colenso 1886b).
- ** *Lepidozia cordata* Lindenb., Syn. Hepat. 2: 207, 1845 (Gottsche et al. 1845a).
- * *Lepidozia cordistipula* Steph., Sp. Hepat. (Stephani) 6: 345, 1922 (Stephani 1922).
- ** *Lepidozia crassitexta* Steph., J. & Proc. Roy. Soc. New South Wales 48 (1/2): 111, 1914 (Stephani and Watts 1914).
- *** *Lepidozia cupressina* (Sw.) Lindenb., Syn. Hepat. 2: 207, 1845 (Gottsche et al. 1845a). Bas.: *Jungermannia cupressina* Sw., Prodr. (Swartz): 144, 1788 (Swartz 1788).
- ** *Lepidozia cupressina* subsp. *natalensis* (Steph.) Pócs, Proc. Third Meeting Bryol. C. & E. Europe: 109, 1984 (Pócs 1984b). Bas.: *Lepidozia natalensis* Steph., Sp. Hepat. (Stephani) 3: 562, 1909 (Stephani 1909a).
- * *Lepidozia cupressina* subsp. *pinnata* (Hook.) Pócs, Proc. Third Meeting Bryol. C. & E. Europe: 109, 1984 (Pócs 1984b). Bas.: *Jungermannia reptans* var. *pinnata* Hook., Brit. Jungermann.: tab. 75, 1815 (Hooker 1815).
- * *Lepidozia cupressina* subsp. *quinquefida* (Steph.) Pócs, Proc. Third Meeting Bryol. C. & E. Europe: 109, 1984 (Pócs 1984b). Bas.: *Lepidozia quinquefida* Steph., Wiss. Ergebn. Deut. Zentr.-Afr. Exped. (1907-08), Bot. 2: 123, 1911 (Stephani 1911a).
- ** *Lepidozia decaisnei* Steph., Sp. Hepat. (Stephani) 3: 588, 1909 (Stephani 1909a).
- ** *Lepidozia dendritica* Spruce, Trans. & Proc. Bot. Soc. Edinburgh 15: 362, 1885 (Spruce 1885).
- ** *Lepidozia densa* Herzog, Repert. Spec. Nov. Regni Veg. 21 (1/7): 26, 1925 (Herzog 1925a).
- *** *Lepidozia digitata* Herzog, Trans. & Proc. Roy. Soc. New Zealand 68 (1): 45, 1938 (Herzog 1938c).
- *** *Lepidozia eenii* S.W. Arnell, Svensk Bot. Tidskr. 57 (2): 190, 1963 (Arnell 1963a).
- ** *Lepidozia elobata* R.M. Schust., Fieldiana, Bot. (n.ser.) 42: 74, 2001 (Engel and Schuster 2001).
- ** *Lepidozia erosa* Steph., Sp. Hepat. (Stephani) 3: 621, 1909 (Stephani 1909a).
- ** *Lepidozia erronea* Herzog, Nat. Hist. Juan Fernandez (Botany) 2 (5): 725, 1942 (Herzog 1942a). *Nom. nov. pro Lepidozia fernandeziensis* Steph., Sp. Hepat. (Stephani) 6: 326, 1922 (Stephani 1922), *nom. illeg.*

- ** *Lepidozia everettii* Steph., Sp. Hepat. (Stephani) 3: 622, 1909 (Stephani 1909a).
- * *Lepidozia everettii* var. *javensis* Herzog, Ann. Bryol. 5: 78, 1932 (Herzog 1932b).
- ** *Lepidozia fauriana* Steph., Sp. Hepat. (Stephani) 3: 631, 1909 (Stephani 1909a).
- *** *Lepidozia ferdinandi-muelleri* Steph., Sp. Hepat. (Stephani) 3: 614, 1909 (Stephani 1909a).
- ** *Lepidozia filamentosa* (Lehm. et Lindenb.) Lehm. et Lindenb., Syn. Hepat. 2: 206, 1845 (Gottsche et al. 1845a). Bas.: *Jungermannia filamentosa* Lehm. et Lindenb., Nov. Stirp. Pug. 6: 29, 1834 (Lehmann 1834).
- ** *Lepidozia fistulosa* Mitt., Fl. vit.: 406, 1871 [1873] (Mitten 1871).
- ** *Lepidozia flexuosa* Mitt., J. Proc. Linn. Soc., Bot. 5 (18): 103, 1860 [1861] (Mitten 1860c).
- ** *Lepidozia fuegiensis* Steph., Kungl. Svenska Vetensk.-Akad. Handl. (n.ser.) 46 (9): 63, 1911 (Stephani 1911b).
- ** *Lepidozia fugax* J.J.Engel, Fieldiana, Bot. (n.ser.) 42: 63, 2001 (Engel and Schuster 2001).
- * *Lepidozia gedena* Steph., Sp. Hepat. (Stephani) 6: 327, 1922 (Stephani 1922).
- *** *Lepidozia glaucescens* J.J.Engel, Fieldiana, Bot. (n.ser.) 42: 101, 2001 (Engel and Schuster 2001).
- *** *Lepidozia glaucophylla* (Hook.f. et Taylor) Gottsche, Lindenb. et Nees, Syn. Hepat. 2: 207, 1845 (Gottsche et al. 1845a). Bas.: *Jungermannia glaucophylla* Hook.f. et Taylor, London J. Bot. 3: 580, 1844 (Hooker and Taylor 1844c).
- ** *Lepidozia grandifolia* Steph., Sp. Hepat. (Stephani) 3: 625, 1909 (Stephani 1909a).
- * *Lepidozia griseola* Herzog, Hedwigia 66 (6): 340, 1926 (Herzog 1926).
- ** *Lepidozia groenlandica* Lehm., Nov. Stirp. Pug. 10: 7, 1857 (Lehmann 1857).
- ** *Lepidozia gwamii* Piippo, Ann. Bot. Fenn. 21 (4): 311, 1984 (Piippo 1984b).
- ** *Lepidozia hampeana* Lindenb., Syn. Hepat. 2: 208, 1845 (Gottsche et al. 1845a).
- *** *Lepidozia haskarliana* (Gottsche, Lindenb. et Nees) Steph., Sp. Hepat. (Stephani) 3: 614, 1909 (Stephani 1909a). Bas.: *Lepidozia supradecomposita* β *haskarliana* Gottsche, Lindenb. et Nees, Syn. Hepat. 2: 202, 1845 (Gottsche et al. 1845a).
- ** *Lepidozia hastatistipula* Steph., J. & Proc. Roy. Soc. New South Wales 48 (1/2): 113, 1914 (Stephani and Watts 1914).
- *** *Lepidozia hirta* Steph., Sp. Hepat. (Stephani) 3: 599, 1909 (Stephani 1909a).
- *** *Lepidozia holorrhiza* (Reinw., Blume et Nees) Nees, Syn. Hepat. 2: 210, 1845 (Gottsche et al. 1845a). Bas.: *Jungermannia holorrhiza* Reinw., Blume et Nees, Nova Acta Phys.-Med. Acad. Caes. Leop.-Carol. Nat. Cur. 12 (1): 204, 1824 [1825] (Reinwardt et al. 1824a).
- ** *Lepidozia holorrhiza* var. *laxa* (Nees) Schiffn., Consp. Hepat. Arch. Ind.: 186, 1898 (Schiffner 1898b). Bas.: *Jungermannia holorrhiza* β *laxa* Nees, Enum. Pl. Crypt. Javae: 14, 1830 (Nees 1830).
- ** *Lepidozia inaequalis* (Lehm. et Lindenb.) Lehm. et Lindenb., Syn. Hepat. 2: 209, 1845 (Gottsche et al. 1845a). Bas.: *Jungermannia inaequalis* Lehm. et Lindenb., Nov. Stirp. Pug. 5: 1, 1833 (Lehmann 1833).
- *** *Lepidozia incurvata* Lindenb., Syn. Hepat. 2: 203, 1845 (Gottsche et al. 1845a).

- ** *Lepidozia infuscata* Mitt., Fl. vit.: 406, 1871 [1873] (Mitten 1871).
- ** *Lepidozia integrifolia* Doei, J. Hattori Bot. Lab. 63: 421, 1987 (Doei 1987).
- *** *Lepidozia jamaicensis* Steph., Sp. Hepat. (Stephani) 3: 568, 1909 (Stephani 1909a).
- ** *Lepidozia kashyapii* D.Singh et D.K.Singh, Nova Hedwigia 94 (1/2): 222, 2012 (Singh and Singh 2012).
- ** *Lepidozia kinabaluensis* Mizut., J. Hattori Bot. Lab. 38: 372, 1974 (Mizutani 1974).
- *** *Lepidozia kirkii* Steph., Sp. Hepat. (Stephani) 3: 598, 1909 (Stephani 1909a).
- ** *Lepidozia lacerifolia* Steph., Sp. Hepat. (Stephani) 6: 332, 1922 (Stephani 1922).
- *** *Lepidozia laevifolia* (Hook.f. et Taylor) Gottsche, Lindenb. et Nees, Syn. Hepat. 2: 208, 1845 (Gottsche et al. 1845a). Bas.: *Jungermannia laevifolia* Hook.f. et Taylor, London J. Bot. 3: 285 [385], 1844 (Hooker and Taylor 1844a).
- ** *Lepidozia laevifolia* var. *acutiloba* J.J.Engel, Fieldiana, Bot. (n.ser.) 42: 61, 2001 (Engel and Schuster 2001).
- ** *Lepidozia laevifolia* var. *alpina* R.M.Schust. et J.J.Engel, Fieldiana, Bot. (n.ser.) 42: 62, 2001 (Engel and Schuster 2001).
- ** *Lepidozia lindigiana* Steph., Sp. Hepat. (Stephani) 3: 573, 1909 (Stephani 1909a).
- ** *Lepidozia loheri* Steph., Sp. Hepat. (Stephani) 3: 621, 1909 (Stephani 1909a).
- ** *Lepidozia longifolia* Steph., Sp. Hepat. (Stephani) 3: 606, 1909 (Stephani 1909a).
- ** *Lepidozia loriana* Steph., Sp. Hepat. (Stephani) 6: 333, 1922 (Stephani 1922).
- *** *Lepidozia macrocolea* Spruce, Trans. & Proc. Bot. Soc. Edinburgh 15: 363, 1885 (Spruce 1885).
- * *Lepidozia massartiana* Schiffn. ex Steph., Sp. Hepat. (Stephani) 3: 611, 1909 (Stephani 1909a). Based on: *Lepidozia massartiana* Schiffn., Hedwigia 39 (4): 196, 1900 (Schiffner 1900b), *nom. inval.*¹²²
- *** *Lepidozia microphylla* (Hook.) Lindenb., Syn. Hepat. 2: 202, 1845 (Gottsche et al. 1845a). Bas.: *Jungermannia microphylla* Hook., Musci Exot. 1: tab. 80, 1818 (Hooker 1818).
- ** *Lepidozia microstipula* Steph., J. & Proc. Roy. Soc. New South Wales 48 (1/2): 114, 1914 (Stephani and Watts 1914).
- ** *Lepidozia minima* Steph., Sp. Hepat. (Stephani) 6: 335, 1922 (Stephani 1922).
- * *Lepidozia minor* (Gottsche, Lindenb. et Nees) Solari, Boll. Mus. Civico Storia Nat. Verona 10: 203, 1983 [1985] (Solari and Hässel 1983). Bas.: *Lepidozia truncatella* β *minor* Gottsche, Lindenb. et Nees, Syn. Hepat. 2: 209, 1845 (Gottsche et al. 1845a).¹²³
- ** *Lepidozia miqueliana* Sande Lac., Ann. Mus. Bot. Lugduno-Batavi 1: 301, 1864 (Sande Lacoste 1864).
- ** *Lepidozia montana* Steph., Sp. Hepat. (Stephani) 3: 587, 1909 (Stephani 1909a).
- * *Lepidozia newtonii* Steph., Sp. Hepat. (Stephani) 3: 623, 1909 (Stephani 1909a).

122 *Lepidozia massartiana* has not been studied recently. Stephani (1909a) confused it with *Telaranea cuneifolia* (Söderström et al. 2010a).

123 *Lepidozia minor* may be conspecific with a known taxon. *Lepidozia minor* sensu Solari and Hässel (1983) is probably another taxon perhaps without name.

- * *Lepidozia nova* Steph., J. & Proc. Roy. Soc. New South Wales 48 (1/2): 115, 1914 (Stephani and Watts 1914).
- *** *Lepidozia novae-zelandiae* Steph., Sp. Hepat. (Stephani) 3: 595, 1909 (Stephani 1909a).
- ** *Lepidozia novae-zelandiae* var. *heterostipa* R.M.Schust., Fieldiana, Bot. (n.ser.) 42: 70, 2001 (Engel and Schuster 2001).
- ** *Lepidozia novae-zelandiae* var. *minima* R.M.Schust., Fieldiana, Bot. (n.ser.) 42: 71, 2001 (Engel and Schuster 2001).
- *** *Lepidozia obtusiloba* Steph., Sp. Hepat. (Stephani) 3: 598, 1909 (Stephani 1909a).
- *** *Lepidozia obtusiloba* var. *parvula* J.J.Engel, Fieldiana, Bot. (n.ser.) 42: 48, 2001 (Engel and Schuster 2001).
- ** *Lepidozia omeiensis* P.C.Chen ex Mizut. et K.C.Chang, J. Hattori Bot. Lab. 60: 421, 1986 (Mizutani and Chang 1986).
- *** *Lepidozia ornata* J.J.Engel, Fieldiana, Bot. (n.ser.) 42: 49, 2001 (Engel and Schuster 2001).
- * *Lepidozia pallida* Steph., Sp. Hepat. (Stephani) 3: 604, 1909 (Stephani 1909a).¹²⁴
- * *Lepidozia palmicola* Steph., Sp. Hepat. (Stephani) 6: 346, 1922 (Stephani 1922).
- ** *Lepidozia paschalis* Steph., Sp. Hepat. (Stephani) 6: 336, 1922 (Stephani 1922).
- *** *Lepidozia patens* Lindenb., Syn. Hepat. 2: 202, 1845 (Gottsche et al. 1845a).
- * *Lepidozia paucifolia* Steph., Sp. Hepat. (Stephani) 3: 610, 1909 (Stephani 1909a).¹²⁵
- ** *Lepidozia paupercula* Steph., Sp. Hepat. (Stephani) 6: 337, 1922 (Stephani 1922).
- ** *Lepidozia pearsonii* Spruce, J. Bot. 19: 34, 1881 (Spruce 1881b).
- *** *Lepidozia pendulina* (Hook.) Lindenb., Syn. Hepat. 2: 208, 1845 (Gottsche et al. 1845a). Bas.: *Jungermannia pendulina* Hook., Musci Exot. 1: tab. 60, 1818 (Hooker 1818).
- ** *Lepidozia peruviana* Steph., Sp. Hepat. (Stephani) 3: 575, 1909 (Stephani 1909a).
- *** *Lepidozia pinnaticurvis* Spruce ex Steph., Sp. Hepat. (Stephani) 3: 579, 1909 (Stephani 1909a).
- * *Lepidozia plumula* Herzog, Beih. Bot. Centralbl. 38 (2): 331, 1921 (Herzog 1921).
- ** *Lepidozia portoricensis* Fulford, Mem. New York Bot. Gard. 11 (2): 187, 1966 (Fulford 1966).
- *** *Lepidozia procera* Mitt., Bot. antarct. voy. III (Fl. Tasman. 2): 231, 1860 (Mitten 1860b).
- * *Lepidozia pseudocupressina* Schiffn., Krit. Bemerk. Eur. Lebermoose 14: 9, 1919 (Schiffner 1919).
- *** *Lepidozia pumila* J.J.Engel, Fieldiana, Bot. (n.ser.) 42: 76, 2001 (Engel and Schuster 2001).

124 *Lepidozia pallida* is possibly *Lepidozia chordulifera* since all specimens cited by Stephani (1911b) and examined by Engel (1978) belong to this species, except the supposed type specimen which does not contain any *Lepidozia* material.

125 *Lepidozia paucifolia* is conspecific with *Lepidozia fauriana* in del Rosario (1977), but Tan and Engel (1986) kept them apart.

- *** *Lepidozia quadridens* (Nees) Nees, Syn. Hepat. 2: 209, 1845 (Gottsche et al. 1845a). Bas.: *Jungermannia quadridens* Nees, Enum. Pl. Crypt. Javae: 18, 1830 (Nees 1830).
- ** *Lepidozia quadrifida* Lindenb., Syn. Hepat. 2: 203, 1845 (Gottsche et al. 1845a).
- *** *Lepidozia reptans* (L.) Dumort., Recueil Observ. Jungerm.: 19, 1835 (Dumortier 1835). Bas.: *Jungermannia reptans* L., Sp. Pl. 1: 1133, 1753 (Linnaeus 1753).
- ** *Lepidozia richardsii* Herzog, Trans. Brit. Bryol. Soc. 1 (4): 313, 1950 (Herzog 1950a).
- ** *Lepidozia rigida* Steph., Sp. Hepat. (Stephani) 6: 340, 1922 (Stephani 1922).
- ** *Lepidozia robusta* Steph., Mém. Soc. Nat. Sci. Nat. Math. Cherbourg 29: 217, 1894 (Stephani 1894b).
- * *Lepidozia rufescens* Steph., Biblioth. Bot. 87 (2): 226, 1916 (Stephani 1916a).
- ** *Lepidozia sandvicensis* Lindenb., Syn. Hepat. 2: 201, 1845 (Gottsche et al. 1845a).
- ** *Lepidozia schwabei* Herzog, Rev. Bryol. Lichénol. 23 (1/2): 49, 1954 (Herzog 1954).
- ** *Lepidozia selligiana* H.A.Mill., Ark. Bot. (n.ser.) 5 (2): 494, 1963 (Miller 1963).
- *** *Lepidozia septemfida* Steph., Sp. Hepat. (Stephani) 3: 588, 1909 (Stephani 1909a).
- ** *Lepidozia serpens* Spruce, Trans. & Proc. Bot. Soc. Edinburgh 15: 364, 1885 (Spruce 1885).
- *** *Lepidozia serrulata* J.J.Engel, J. Hattori Bot. Lab. 96: 273, 2004 (Engel 2004a).
- *** *Lepidozia setigera* Steph., Sp. Hepat. (Stephani) 3: 599, 1909 (Stephani 1909a).
- ** *Lepidozia sikkimensis* Steph., Sp. Hepat. (Stephani) 6: 341, 1922 (Stephani 1922).
- *** *Lepidozia spinosissima* (Hook.f. et Taylor) Mitt., Bot. antarct. voy. II (Fl. Nov.-Zel. 2): 146, 1854 (Mitten 1854). Bas.: *Sendtnera spinosissima* Hook.f. et Taylor, London J. Bot. 5: 373, 1846 (Taylor 1846b).
- * *Lepidozia squamifolia* Steph., Sp. Hepat. (Stephani) 6: 341, 1922 (Stephani 1922).
- *** *Lepidozia squarrosa* Steph., Sp. Hepat. (Stephani) 3: 573, 1909 (Stephani 1909a).
- ** *Lepidozia stablii* Steph., Sp. Hepat. (Stephani) 3: 616, 1909 (Stephani 1909a).
- ** *Lepidozia stuhlmannii* Steph., Bot. Jahrb. Syst. 20 (3): 308, 1895 (Stephani 1895a).
- ** *Lepidozia stuhlmannii* var. *carnosa* (Steph.) Pócs, Lidia 4 (1): 22, 1997 (Lye and Pócs 1997). Bas.: *Lepidozia carnosa* Steph., Wiss. Ergebn. Deut. Zentr.-Afr. Exped. (1907-08), Bot. 2: 122, 1911 (Stephani 1911a).
- ** *Lepidozia stuhlmannii* subsp. *pulvinata* (Steph.) Pócs, Trop. Bryol. 9: 127, 1994 (Pócs 1994c). Bas.: *Lepidozia pulvinata* Steph., Wiss. Ergebn. Deut. Zentr.-Afr. Exped. (1907-08), Bot. 2: 121, 1911 (Stephani 1911a).
- ** *Lepidozia subdichotoma* Spruce, Trans. & Proc. Bot. Soc. Edinburgh 15: 361, 1885 (Spruce 1885).
- ** *Lepidozia subintegra* Lindenb., Syn. Hepat. 2: 201, 1845 (Gottsche et al. 1845a).
- ** *Lepidozia subtransversa* Steph., Bull. Herb. Boissier 5 (2): 95, 1897 (Stephani 1897b).
- ** *Lepidozia subtrichodes* Steph., Sp. Hepat. (Stephani) 3: 615, 1909 (Stephani 1909a).
- ** *Lepidozia succida* Mitt., Trans. Linn. Soc. London 23 (1): 57, 1860 (Mitten 1860a).
- ** *Lepidozia supradecomposita* Lindenb., Syn. Hepat. 2: 202, 1845 (Gottsche et al. 1845a).
- * *Lepidozia supradecomposita* var. *falcifolia* Herzog, Mitt. Inst. Allg. Bot. Hamburg 7 (3): 191, 1931 (Herzog 1931a).

- ** *Lepidozia suyungii* C.Gao et X.L.Bai, J. Hattori Bot. Lab. 92: 192, 2002 (Gao and Bai 2002).
- ** *Lepidozia terricola* Steph., Sp. Hepat. (Stephani) 3: 585, 1909 (Stephani 1909a).
- ** *Lepidozia triangulifolia* Steph., Sp. Hepat. (Stephani) 6: 344, 1922 (Stephani 1922).
- *** *Lepidozia trichodes* (Reinw., Blume et Nees) Nees, Syn. Hepat. 2: 203, 1845 (Gottsche et al. 1845a). Bas.: *Jungermannia trichodes* Reinw., Blume et Nees, Nova Acta Phys.-Med. Acad. Caes. Leop.-Carol. Nat. Cur. 12 (1): 199, 1824 [1825] (Reinwardt et al. 1824a).
- * *Lepidozia tricuspидata* Steph., Sp. Hepat. (Stephani) 6: 344, 1922 (Stephani 1922).
- ** *Lepidozia tunguraguae* Steph., Sp. Hepat. (Stephani) 6: 345, 1922 (Stephani 1922).
- ** *Lepidozia ubangiensis* Steph., Sp. Hepat. (Stephani) 3: 561, 1909 (Stephani 1909a).
- *** *Lepidozia udarii* S.C.Srivast., D.Kumar et D.Sharma, Cryptog. Bryol. Lichénol. 9 (3): 237, 1988 (Srivastava et al. 1988).
- *** *Lepidozia ulothrix* (Schwägr.) Lindenb., Syn. Hepat. 2: 210, 1845 (Gottsche et al. 1845a). Bas.: *Jungermannia ulothrix* Schwägr., Hist. Musc. Hepat. Prodr.: 21, 1814 (Schwägrichen 1814).
- ** *Lepidozia vitrea* Steph., Bull. Herb. Boissier 5 (2): 96, 1897 (Stephani 1897b).
- ** *Lepidozia wattiana* Steph., Sp. Hepat. (Stephani) 3: 586, 1909 (Stephani 1909a).
- ** *Lepidozia weymouthiana* Steph., J. & Proc. Roy. Soc. New South Wales 48 (1/2): 117, 1914 (Stephani and Watts 1914).

Excluded from the genus

- * *Lepidozia hexiloba* Pearson, Ann. Cryptog. Exot. 4 (2): 67, 1931 (Pearson 1931a).¹²⁶
- * *Lepidozia parvistipa* Taylor, London J. Bot. 5: 370, 1846 (Taylor 1846b).¹²⁷
- *** ***Neolepidozia Fulford et J.Taylor***, Brittonia 11 (2): 81, 1959 (Fulford and Taylor 1959a).
- *** *Neolepidozia aubertii* (Jovet-Ast) E.D.Cooper, Phytotaxa 97 (2): 55, 2013 (Cooper et al. 2013). Bas.: *Lepidozia aubertii* Jovet-Ast, Candollea 11: 35, 1947 (Jovet-Ast 1947a).
- *** *Neolepidozia autoica* (J.J.Engel et G.L.Merr.) E.D.Cooper, Phytotaxa 97 (2): 55, 2013 (Cooper et al. 2013). Bas.: *Telaranea autoica* J.J.Engel et G.L.Merr., Fieldiana, Bot. (n.ser.) 44: 124, 2004 (Engel and Smith Merrill 2004).
- *** *Neolepidozia capilligera* (Schwägr.) Fulford et J.Taylor, Brittonia 11 (2): 84, 1959 (Fulford and Taylor 1959a). Bas.: *Jungermannia capilligera* Schwägr., Hist. Musc. Hepat. Prodr.: 21, 1814 (Schwägrichen 1814).
- *** *Neolepidozia consobrina* (J.J.Engel et G.L.Merr.) E.D.Cooper, Phytotaxa 97 (2): 55, 2013 (Cooper et al. 2013). Bas.: *Telaranea consobrina* J.J.Engel et G.L.Merr., Novon 9 (3): 339, 1999 (Engel and Smith Merrill 1999a).

¹²⁶ *Lepidozia hexiloba* is possibly an *Arachniopsis* or *Telaranea* species (Wigginton and Grolle 1996).

¹²⁷ *Lepidozia parvistipa* is possibly conspecific with *Ceramanus clatritexta*.

- *** *Neolepidozia cuneifolia* (Steph.) Fulford et J.Taylor, Brittonia 11 (2): 85, 1959 (Fulford and Taylor 1959a). Bas.: *Lepidozia cuneifolia* Steph., Sp. Hepat. (Stephani) 3: 618, 1909 (Stephani 1909a).
- *** *Neolepidozia disparata* (J.J.Engel et G.L.Merr.) E.D.Cooper, Phytotaxa 97 (2): 55, 2013 (Cooper et al. 2013). Bas.: *Telaranea disparata* J.J.Engel et G.L.Merr., Fiediana, Bot. (n.ser.) 44: 147, 2004 (Engel and Smith Merrill 2004).
- *** *Neolepidozia disticha* (Steph.) Fulford et J.Taylor, Brittonia 11 (2): 85, 1959 (Fulford and Taylor 1959a). Bas.: *Lepidozia disticha* Steph., Kungl. Svenska Vetensk.-Akad. Handl. (n.ser.) 46 (9): 62, 1911 (Stephani 1911b).
- *** *Neolepidozia gibbsiana* (Steph.) E.D.Cooper, Phytotaxa 97 (2): 55, 2013 (Cooper et al. 2013). Bas.: *Lepidozia gibbsiana* Steph., Sp. Hepat. (Stephani) 6: 328, 1922 (Stephani 1922).
- *** *Neolepidozia heterotexta* (Steph.) E.D.Cooper, Phytotaxa 97 (2): 55, 2013 (Cooper et al. 2013). Bas.: *Lepidozia heterotexta* Steph., Sp. Hepat. (Stephani) 6: 329, 1922 (Stephani 1922).
- *** *Neolepidozia hodgsoniae* (J.J.Engel et G.L.Merr.) E.D.Cooper, Phytotaxa 97 (2): 55, 2013 (Cooper et al. 2013). Bas.: *Telaranea hodgsoniae* J.J.Engel et G.L.Merr., Phytologia 79 (3): 251, 1995 [1996] (Engel and Smith Merrill 1995).
- *** *Neolepidozia longitudinalis* (Herzog) E.D.Cooper, Phytotaxa 97 (2): 56, 2013 (Cooper et al. 2013). Bas.: *Lepidozia longitudinalis* Herzog, Trans. Brit. Bryol. Soc. 1 (4): 312, 1950 (Herzog 1950a).
- *** *Neolepidozia mamillosa* (Schiffn.) E.D.Cooper, Phytotaxa 97 (2): 56, 2013 (Cooper et al. 2013). Bas.: *Lepidozia mamillosa* Schiffn., Nova Acta Acad. Caes. Leop.-Carol. German. Nat. Cur. 60 (2): 254, 1893 (Schiffner 1893a).
- *** *Neolepidozia meridiana* (E.A.Hodgs.) E.D.Cooper, Phytotaxa 97 (2): 56, 2013 (Cooper et al. 2013). Bas.: *Lepidozia meridiana* E.A.Hodgs., Trans. Roy. Soc. New Zealand 83 (4): 611, 1956 (Hodgson 1956).
- *** *Neolepidozia oligophylla* (Lehm. et Lindenb.) Fulford et J.Taylor, Brittonia 11 (2): 84, 1959 (Fulford and Taylor 1959a). Bas.: *Jungermannia oligophylla* Lehm. et Lindenb., Nov. Stirp. Pug. 6: 26, 1834 (Lehmann 1834).
- *** *Neolepidozia ophiria* (Gottsche) E.D.Cooper, Phytotaxa 97 (2): 56, 2013 (Cooper et al. 2013). Bas.: *Lepidozia ophiria* Gottsche, Sp. Hepat. (Stephani) 3: 611, 1909 (Stephani 1909a).
- *** *Neolepidozia palmata* (J.J.Engel et G.L.Merr.) E.D.Cooper, Phytotaxa 97 (2): 56, 2013 (Cooper et al. 2013). Bas.: *Telaranea palmata* J.J.Engel et G.L.Merr., Novon 9 (3): 344, 1999 (Engel and Smith Merrill 1999a).
- *** *Neolepidozia paludicola* (E.A.Hodgs.) E.D.Cooper, Phytotaxa 97 (2): 56, 2013 (Cooper et al. 2013). Bas.: *Lepidozia meridiana* var. *paludicola* E.A.Hodgs., Trans. Roy. Soc. New Zealand 83 (4): 611, 1956 (Hodgson 1956).
- *** *Neolepidozia papulosa* (Steph.) Fulford et J.Taylor, Brittonia 11 (2): 85, 1959 (Fulford and Taylor 1959a). Bas.: *Lepidozia papulosa* Steph., Sp. Hepat. (Stephani) 3: 609, 1909 (Stephani 1909a).

- *** *Neolepidozia parvifolia* (Steph.) Fulford et J.Taylor, *Brittonia* 11 (2): 85, 1959 (Fulford and Taylor 1959a). Bas.: *Lepidozia parvifolia* Steph., *Sp. Hepat.* (Stephani) 6: 337, 1922 (Stephani 1922).
- *** *Neolepidozia patentissima* (Hook.f. et Taylor) E.D.Cooper, *Phytotaxa* 97 (2): 56, 2013 (Cooper et al. 2013). Bas.: *Jungermannia patentissima* Hook.f. et Taylor, *London J. Bot.* 3: 286 [386], 1844 (Hooker and Taylor 1844a).
- *** *Neolepidozia patentissima* var. *ampliata* (J.J.Engel et G.L.Merr.) E.D.Cooper, *Phytotaxa* 97 (2): 56, 2013 (Cooper et al. 2013). Bas.: *Telaranea patentissima* var. *ampliata* J.J.Engel et G.L.Merr., *Fieldiana, Bot.* (n.ser.) 44: 48, 2004 (Engel and Smith Merrill 2004).
- *** *Neolepidozia patentissima* var. *zebrina* (J.J.Engel et G.L.Merr.) E.D.Cooper, *Phytotaxa* 97 (2): 57, 2013 (Cooper et al. 2013). Bas.: *Telaranea patentissima* var. *zebrina* J.J.Engel et G.L.Merr., *Fieldiana, Bot.* (n.ser.) 44: 50, 2004 (Engel and Smith Merrill 2004).
- *** *Neolepidozia pennata* (J.J.Engel et G.L.Merr.) E.D.Cooper, *Phytotaxa* 97 (2): 57, 2013 (Cooper et al. 2013). Bas.: *Telaranea pennata* J.J.Engel et G.L.Merr., *Phytologia* 79 (3): 252, 1995 [1996] (Engel and Smith Merrill 1995).
- *** *Neolepidozia planifolia* (Steph.) E.D.Cooper, *Phytotaxa* 97 (2): 57, 2013 (Cooper et al. 2013). Bas.: *Lepidozia planifolia* Steph., *Sp. Hepat.* (Stephani) 3: 629, 1909 (Stephani 1909a).
- *** *Neolepidozia praenitens* (Lehm. et Lindenb.) E.D.Cooper, *Phytotaxa* 97 (2): 57, 2013 (Cooper et al. 2013). Bas.: *Jungermannia praenitens* Lehm. et Lindenb., *Nov. Stirp. Pug.* 6: 27, 1834 (Lehmann 1834).
- *** *Neolepidozia praenitens* var. *dentifolia* (J.J.Engel et G.L.Merr.) E.D.Cooper, *Phytotaxa* 97 (2): 57, 2013 (Cooper et al. 2013). Bas.: *Telaranea praenitens* var. *dentifolia* J.J.Engel et G.L.Merr., *Phytologia* 79 (3): 253, 1995 [1996] (Engel and Smith Merrill 1995).
- *** *Neolepidozia quadristipula* (Steph.) E.D.Cooper, *Phytotaxa* 97 (2): 57, 2013 (Cooper et al. 2013). Bas.: *Lepidozia quadristipula* Steph., *J. & Proc. Roy. Soc. New South Wales* 48 (1/2): 115, 1914 (Stephani and Watts 1914).
- *** *Neolepidozia rectangularis* (R.M.Schust.) E.D.Cooper, *Phytotaxa* 97 (2): 57, 2013 (Cooper et al. 2013). Bas.: *Telaranea rectangularis* R.M.Schust., *Phytologia* 39 (4): 241, 1978 (Schuster 1978a).
- *** *Neolepidozia seriatitexta* (Steph.) Fulford, *Mem. New York Bot. Gard.* 11 (2): 215, 1966 (Fulford 1966). Bas.: *Lepidozia seriatitexta* Steph., *Bih. Kongl. Svenska Vetensk.-Akad. Handl.* 26 (III, 6): 53, 1900 (Stephani 1900b).
- *** *Neolepidozia tetrapila* (Hook.f. et Taylor) E.D.Cooper, *Phytotaxa* 97 (2): 57, 2013 (Cooper et al. 2013). Bas.: *Lepidozia tetrapila* Hook.f. et Taylor, *London J. Bot.* 5: 370, 1846 (Taylor 1846b).
- *** *Neolepidozia tetrapila* var. *cancellata* (Colenso) E.D.Cooper, *Phytotaxa* 97 (2): 57, 2013 (Cooper et al. 2013). Bas.: *Lepidozia cancellata* Colenso, *Trans. & Proc. New Zealand Inst.* 18: 244, 1886 (Colenso 1886b).

- *** *Neolepidozia tetrapila* var. *roseana* (Steph.) E.D.Cooper, Phytotaxa 97 (2): 58, 2013 (Cooper et al. 2013). Bas.: *Lepidozia roseana* Steph., Sp. Hepat. (Stephani) 3: 590, 1909 (Stephani 1909a).
- *** *Neolepidozia tridactylis* (Lehm. et Lindenb.) E.D.Cooper, Phytotaxa 97 (2): 58, 2013 (Cooper et al. 2013). Bas.: *Jungermannia tridactylis* Lehm. et Lindenb., Nov. Stirp. Pug. 4: 41, 1832 (Lehmann 1832).
- *** *Neolepidozia trifida* (Steph.) E.D.Cooper, Phytotaxa 97 (2): 58, 2013 (Cooper et al. 2013). Bas.: *Lepidozia trifida* Steph., Wiss. Ergebn. Deut. Zentr.-Afr. Exped. (1907-08), Bot. 2: 120, 1911 (Stephani 1911a).
- *** *Neolepidozia verruculosa* (J.J.Engel et G.L.Merr.) E.D.Cooper, Phytotaxa 97 (2): 58, 2013 (Cooper et al. 2013). Bas.: *Telaranea verruculosa* J.J.Engel et G.L.Merr., Fieldiana, Bot. (n.ser.) 44: 197, 2004 (Engel and Smith Merrill 2004).
- *** *Neolepidozia wallichiana* (Gottsche) Fulford et J.Taylor, Brittonia 11 (2): 84, 1959 (Fulford and Taylor 1959a). Bas.: *Lepidozia wallichiana* Gottsche, Syn. Hepat. 2: 204, 1845 (Gottsche et al. 1845a).
- *** ***Tricholepidozia* (R.M.Schust.) E.D.Cooper**, Phytotaxa 97 (2): 58, 2013 (Cooper et al. 2013). Bas.: *Telaranea* subg. *Tricholepidozia* R.M.Schust., J. Hattori Bot. Lab. 26: 256, 1963 (Schuster 1963b).
- *** *Tricholepidozia chaetocarpa* (Pearson) E.D.Cooper, Phytotaxa 97 (2): 58, 2013 (Cooper et al. 2013). Bas.: *Lepidozia chaetocarpa* Pearson, J. Linn. Soc., Bot. 46 (305): 27, 1922 (Pearson 1922b).
- *** *Tricholepidozia fernandezensis* (Steph.) E.D.Cooper, Phytotaxa 97 (2): 58, 2013 (Cooper et al. 2013). Bas.: *Lepidozia fernandezensis* Steph., Kungl. Svenska Vetensk.-Akad. Handl. (n.ser.) 46 (9): 63, 1911 (Stephani 1911b).
- *** *Tricholepidozia ferruginea* (J.J.Engel et G.L.Merr.) E.D.Cooper, Phytotaxa 97 (2): 58, 2013 (Cooper et al. 2013). Bas.: *Telaranea ferruginea* J.J.Engel et G.L.Merr., Fieldiana, Bot. (n.ser.) 44: 159, 2004 (Engel and Smith Merrill 2004).
- *** *Tricholepidozia fissifolia* (Steph.) E.D.Cooper, Phytotaxa 97 (2): 58, 2013 (Cooper et al. 2013). Bas.: *Lepidozia fissifolia* Steph., Sp. Hepat. (Stephani) 3: 610, 1909 (Stephani 1909a).
- *** *Tricholepidozia jowettiana* (H.A.Mill.) E.D.Cooper, Phytotaxa 97 (2): 59, 2013 (Cooper et al. 2013). Bas.: *Telaranea jowettiana* H.A.Mill., J. Bryol. 14 (2): 235, 1986 (Miller 1986).
- *** *Tricholepidozia kaindina* (Grolle) E.D.Cooper, Phytotaxa 97 (2): 59, 2013 (Cooper et al. 2013). Bas.: *Telaranea kaindina* Grolle, J. Hattori Bot. Lab. 31: 9, 1968 (Grolle 1968a).
- *** *Tricholepidozia kogiana* (Steph.) E.D.Cooper, Phytotaxa 97 (2): 59, 2013 (Cooper et al. 2013). Bas.: *Lepidozia kogiana* Steph., Sp. Hepat. (Stephani) 6: 332, 1922 (Stephani 1922).
- *** *Tricholepidozia lawesii* (Steph.) E.D.Cooper, Phytotaxa 97 (2): 59, 2013 (Cooper et al. 2013). Bas.: *Lepidozia lawesii* Steph., Hedwigia 28 (4): 264, 1889 (Stephani 1889c).

- *** *Tricholepidozia leratii* (Steph.) E.D.Cooper, *Phytotaxa* 167 (2): 218, 2014 (Cooper et al. 2014). Bas.: *Lepidozia leratii* Steph., *Sp. Hepat. (Stephani)* 6: 333, 1922 (Stephani 1922).
- *** *Tricholepidozia lindenbergii* (Gottsche) E.D.Cooper, *Phytotaxa* 97 (2): 59, 2013 (Cooper et al. 2013). Bas.: *Lepidozia lindenbergii* Gottsche, *Syn. Hepat.* 2: 213, 1845 (Gottsche et al. 1845a).
- *** *Tricholepidozia lindenbergii* var. *complanata* (J.J.Engel et G.L.Merr.) E.D.Cooper, *Phytotaxa* 97 (2): 59, 2013 (Cooper et al. 2013). Bas.: *Telaranea lindenbergii* var. *complanata* J.J.Engel et G.L.Merr., *Phytologia* 79 (3): 252, 1995 [1996] (Engel and Smith Merrill 1995).
- *** *Tricholepidozia lindenbergii* var. *mellea* (J.J.Engel et G.L.Merr.) E.D.Cooper, *Phytotaxa* 97 (2): 59, 2013 (Cooper et al. 2013). Bas.: *Telaranea lindenbergii* var. *mellea* J.J.Engel et G.L.Merr., *Phytologia* 79 (3): 252, 1995 [1996] (Engel and Smith Merrill 1995).
- *** *Tricholepidozia lindenbergii* var. *papillata* (J.J.Engel et G.L.Merr.) E.D.Cooper, *Phytotaxa* 97 (2): 59, 2013 (Cooper et al. 2013). Bas.: *Telaranea lindenbergii* var. *papillata* J.J.Engel et G.L.Merr., *Fieldiana, Bot. (n.ser.)* 44: 83, 2004 (Engel and Smith Merrill 2004).
- *** *Tricholepidozia marginata* (J.J.Engel et G.L.Merr.) E.D.Cooper, *Phytotaxa* 97 (2): 59, 2013 (Cooper et al. 2013). Bas.: *Telaranea marginata* J.J.Engel et G.L.Merr., *Fieldiana, Bot. (n.ser.)* 44: 166, 2004 (Engel and Smith Merrill 2004).
- *** *Tricholepidozia martinii* (E.A.Hodgs.) E.D.Cooper, *Phytotaxa* 97 (2): 59, 2013 (Cooper et al. 2013). Bas.: *Lepidozia martinii* E.A.Hodgs., *Trans. Roy. Soc. New Zealand* 83 (4): 602, 1956 (Hodgson 1956).
- *** *Tricholepidozia melanesica* (H.A.Mill.) E.D.Cooper, *Phytotaxa* 97 (2): 60, 2013 (Cooper et al. 2013). Bas.: *Telaranea melanesica* H.A.Mill., *J. Bryol.* 14 (2): 237, 1986 (Miller 1986).
- *** *Tricholepidozia neesii* (Lindenb.) E.D.Cooper, *Phytotaxa* 97 (2): 60, 2013 (Cooper et al. 2013). Bas.: *Lepidozia neesii* Lindenb., *Syn. Hepat.* 2: 212, 1845 (Gottsche et al. 1845a).
- *** *Tricholepidozia octoloba* (Del Ros.) E.D.Cooper, *Phytotaxa* 97 (2): 60, 2013 (Cooper et al. 2013). Bas.: *Telaranea octoloba* Del Ros., *Philipp. J. Sci.* 100 (3/4): 239, 1971 (Del Rosario 1971).
- *** *Tricholepidozia plumulosa* (Lehm. et Lindenb.) E.D.Cooper, *Phytotaxa* 97 (2): 60, 2013 (Cooper et al. 2013). Bas.: *Jungermannia plumulosa* Lehm. et Lindenb., *Nov. Stirp. Pug.* 6: 30, 1834 (Lehmann 1834).
- *** *Tricholepidozia pulcherrima* (Steph.) E.D.Cooper, *Phytotaxa* 97 (2): 60, 2013 (Cooper et al. 2013). Bas.: *Lepidozia pulcherrima* Steph., *Sp. Hepat. (Stephani)* 3: 600, 1909 (Stephani 1909a).
- *** *Tricholepidozia pulcherrima* var. *mooreana* (Steph.) E.D.Cooper, *Phytotaxa* 97 (2): 60, 2013 (Cooper et al. 2013). Bas.: *Lepidozia mooreana* Steph., *Sp. Hepat. (Stephani)* 3: 585, 1909 (Stephani 1909a).

- *** *Tricholepidozia quadriseta* (Steph.) E.D.Cooper, Phytotaxa 97 (2): 60, 2013 (Cooper et al. 2013). Bas.: *Lepidozia quadriseta* Steph., Sp. Hepat. (Stephani) 3: 582, 1909 (Stephani 1909a).
- *** *Tricholepidozia remotifolia* (E.A.Hodgs.) E.D.Cooper, Phytotaxa 97 (2): 60, 2013 (Cooper et al. 2013). Bas.: *Telaranea remotifolia* E.A.Hodgs., Rec. Domin. Mus. 4 (11): 107, 1962 (Hodgson 1962a).
- *** *Tricholepidozia semperiana* (Steph.) E.D.Cooper, Phytotaxa 97 (2): 60, 2013 (Cooper et al. 2013). Bas.: *Lepidozia semperiana* Steph., Sp. Hepat. (Stephani) 3: 612, 1909 (Stephani 1909a).
- *** *Tricholepidozia tetradactyla* (Hook.f. et Taylor) E.D.Cooper, Phytotaxa 97 (2): 61, 2013 (Cooper et al. 2013). Bas.: *Jungermannia tetradactyla* Hook.f. et Taylor, London J. Bot. 3: 286 [386], 1844 (Hooker and Taylor 1844a).
- *** *Tricholepidozia trichocoleoides* (Herzog) E.D.Cooper, Phytotaxa 97 (2): 61, 2013 (Cooper et al. 2013). Bas.: *Lepidozia trichocoleoides* Herzog, Trans. Brit. Bryol. Soc. 1 (4): 314, 1950 (Herzog 1950a).

✱ **Micropterygioideae Grolle**

- ** ***Micropterygium* Gottsche, Lindenb. et Nees**, Syn. Hepat. 2: 233, 1845 (Gottsche et al. 1845a).
- ** *Micropterygium angustistipulum* Spruce, Trans. & Proc. Bot. Soc. Edinburgh 15: 385, 1885 (Spruce 1885).
- *** *Micropterygium bialatum* Fulford, Mem. New York Bot. Gard. 11 (2): 268, 1966 (Fulford 1966).
- *** *Micropterygium bolivarense* Fulford, Mem. New York Bot. Gard. 11 (2): 263, 1966 (Fulford 1966).
- *** *Micropterygium campanense* Spruce, Hedwigia 73 (3/4): 157, 1933 (Reimers 1933).
- *** *Micropterygium carinatum* (Grev.) Reimers, Hedwigia 76 (3): 166, 1936 (Reimers 1936). Bas.: *Jungermannia carinata* Grev., Ann. Lyceum Nat. Hist. New York 1 (2): 276, 1825 (Greville 1825).
- *** *Micropterygium conchifolium* Reimers, Hedwigia 73 (3/4): 155, 1933 (Reimers 1933).
- *** *Micropterygium duidae* Reimers, Hedwigia 73 (3/4): 147, 1933 (Reimers 1933).
- ** *Micropterygium exalatum* Steph., Sp. Hepat. (Stephani) 3: 547, 1909 (Stephani 1909a).
- ** *Micropterygium grandistipulum* Steph., Trans. Linn. Soc. London, Bot. 6 (1): 98, 1901 (Stephani 1901e).
- ** *Micropterygium laeve* H.Rob., Bol. Soc. Venez. Ci. Nat. 32 (132/133): 252, 1976 (Robinson 1976b).
- ** *Micropterygium lechleri* Reimers, Hedwigia 73 (3/4): 184, 1933 (Reimers 1933).
- *** *Micropterygium leiophyllum* Spruce, Trans. & Proc. Bot. Soc. Edinburgh 15: 386, 1885 (Spruce 1885).

- ** *Micropterygium longicellulatum* Uribe et E.L.Linares, *Phytotaxa* 213 (3): 297, 2015 (Uribe and Linares 2015).
- ** *Micropterygium parvistipulum* Spruce, *Trans. & Proc. Bot. Soc. Edinburgh* 15: 383, 1885 (Spruce 1885).
- *** *Micropterygium pterygophyllum* (Nees) Trevis., *Mem. Reale Ist. Lombardo Sci. (Ser. 3), C. Sci. Mat.* 4 (13): 413, 1877 (Trevisan 1877). Bas.: *Jungermannia pterygophylla* Nees, *Fl. Bras. (Martius)* 1 (1): 377, 1833 (Nees 1833a).
- * *Micropterygium pterygophyllum* var. *lancifolium* Reimers, *Hedwigia* 73 (3/4): 176, 1933 (Reimers 1933).
- ** *Micropterygium reimersianum* Herzog, *Hedwigia* 81 (5/6): 226, 1943 (Herzog 1943b).
- *** *Micropterygium steyermarkii* Fulford, *Mem. New York Bot. Gard.* 11 (2): 270, 1966 (Fulford 1966).
- *** *Micropterygium tatei* Reimers, *Hedwigia* 73 (3/4): 150, 1933 (Reimers 1933).
- *** *Micropterygium tenax* (Steph.) Grolle, *J. Bryol.* 10 (3): 265, 1979 (Grolle 1979b). Bas.: *Harpalejeunea tenax* Steph., *Trans. Linn. Soc. London, Bot.* 6 (1): 100, 1901 (Stephani 1901e).
- *** *Micropterygium trachyphyllum* Reimers, *Hedwigia* 73 (3/4): 186, 1933 (Reimers 1933).¹²⁸
- * *Micropterygium trachyphyllum* var. *brasiliense* Reimers, *Hedwigia* 73 (3/4): 195, 1933 (Reimers 1933).
- * *Micropterygium trachyphyllum* var. *cubense* Reimers, *Hedwigia* 73 (3/4): 188, 1933 (Reimers 1933).
- * *Micropterygium trachyphyllum* var. *guadeloupense* Reimers, *Hedwigia* 73 (3/4): 190, 1933 (Reimers 1933).
- * *Micropterygium trachyphyllum* var. *jamaicense* Reimers, *Hedwigia* 73 (3/4): 190, 1933 (Reimers 1933).
- *** *Micropterygium tumidulum* Fulford, *Mem. New York Bot. Gard.* 11 (2): 272, 1966 (Fulford 1966).
- ** ***Mytilopsis* Spruce**, *Cephalozia*: 90, 1882 (Spruce 1882).
- *** *Mytilopsis albifrons* Spruce, *Cephalozia*: 91, 1882 (Spruce 1882).

*: Protocephalozioidae R.M.Schust.

- ** ***Protocephalozia* (Spruce) K.I.Goebel**, *Flora* 77 (2): 83, 1893 (Goebel 1893b). Bas.: *Cephalozia* subg. *Protocephalozia* Spruce, *Cephalozia*: 24, 1882 (Spruce 1882).
- *** *Protocephalozia ephemeroideis* (Spruce) K.I.Goebel, *Flora* 77 (2): 83, 1893 (Goebel 1893b). Bas.: *Cephalozia ephemeroideis* Spruce, *Cephalozia*: 24, 1882 (Spruce 1882).

128 *Micropterygium trachyphyllum* was split into several varieties by Reimers (1933), but they do not seem to have been accepted by any later author and Söderström et al. (2011a) were not sure about their status.

*** Zoopsidoideae R.M.Schust.

- ** *Amazoopsis* J.J.Engel et G.L.Merr., Fieldiana, Bot. (n.ser.) 44: 242, 2004 (Engel and Smith Merrill 2004).
- *** *Amazoopsis diplopoda* (Pócs) J.J.Engel et G.L.Merr., Fieldiana, Bot. (n.ser.) 44: 245, 2004 (Engel and Smith Merrill 2004). Bas.: *Arachniopsis diplopoda* Pócs, Proc. Third Meeting Bryol. C. & E. Europe: 114, 1984 (Pócs 1984b).
- *** *Amazoopsis dissotricha* (Spruce) J.J.Engel et G.L.Merr., Fieldiana, Bot. (n.ser.) 44: 247, 2004 (Engel and Smith Merrill 2004). Bas.: *Arachniopsis dissotricha* Spruce, Cephalozia: 86, 1882 (Spruce 1882).
- *** *Amazoopsis gracilis* J.J.Engel et G.L.Merr., Fieldiana, Bot. (n.ser.) 44: 246, 2004 (Engel and Smith Merrill 2004).
- * *Hyalolepidozia* S.W.Arnell ex Grolle, Rev. Bryol. Lichénol. 32 (3/4): 179, 1963 [1964] (Grolle 1963b). Based on: *Hyalolepidozia* S.W.Arnell, Bot. Not. 115: 203, 1962 (Arnell 1962a).
- ** *Hyalolepidozia bicuspidata* (C.Massal.) S.W.Arnell ex Grolle, Rev. Bryol. Lichénol. 32 (3/4): 179, 1963 [1964] (Grolle 1963b). Bas.: *Lepidozia bicuspidata* C.Massal., Nuovo Giorn. Bot. Ital. 17 (3): 239, 1885 (Massalongo 1885).
- * *Monodactyloopsis* (R.M.Schust.) R.M.Schust., Nova Hedwigia 56 (1/2): 45, 1993 (Schuster 1993a). Bas.: *Arachniopsis* subg. *Monodactyloopsis* R.M.Schust., Nova Hedwigia 10 (1/2): 24, 1965 (Schuster 1965b).
- ** *Monodactyloopsis monodactyla* (Spruce) R.M.Schust., Nova Hedwigia 69 (3/4): 523, 1999 (Schuster 1999a). Bas.: *Cephalozia monodactyla* Spruce, Cephalozia: 28, 1882 (Spruce 1882).
- ** *Neogrollea* E.A.Hodgs., Trans. Roy. Soc. New Zealand, Bot. 3 (4): 70, 1965 (Hodgson 1965).
- *** *Neogrollea notabilis* E.A.Hodgs., Trans. Roy. Soc. New Zealand, Bot. 3 (4): 70, 1965 (Hodgson 1965).
- * *Odontoseris* Fulford, Mem. New York Bot. Gard. 11 (3): 364, 1968 (Fulford 1968).
- * *Odontoseris chimantana* Fulford, Mem. New York Bot. Gard. 11 (3): 366, 1968 (Fulford 1968).
- *** *Paracromastigum* Fulford et J.Taylor, Brittonia 13 (4): 336, 1961 (Fulford and Taylor 1961).
- *** *Paracromastigum denticulatum* (Steph.) E.D.Cooper, Phytotaxa 97 (2): 61, 2013 (Cooper et al. 2013). Bas.: *Lembidium denticulatum* Steph., Sp. Hepat. (Stephani) 6: 444, 1924 (Stephani 1924).

- *** *Paracromastigum drucei* (R.M.Schust.) R.M.Schust., J. Hattori Bot. Lab. 38: 700, 1974 (Schuster and Engel 1974). Bas.: *Pseudocephalozia drucei* R.M.Schust., Nova Hedwigia 10 (1/2): 22, 1965 (Schuster 1965b).
- *** *Paracromastigum dusenii* (Steph.) R.M.Schust., J. Hattori Bot. Lab. 38: 700, 1974 (Schuster and Engel 1974). Bas.: *Alobiella dusenii* Steph., Bih. Kongl. Svenska Vetensk.-Akad. Handl. 26 (III, 6): 48, 1900 (Stephani 1900b).
- ** *Paracromastigum fiordlandiae* R.M.Schust. et J.J.Engel, Brittonia 48 (2): 167, 1996 (Schuster and Engel 1996).
- *** *Paracromastigum furcifolium* (Steph.) R.M.Schust., J. Hattori Bot. Lab. 26: 276, 1963 (Schuster 1963b). Bas.: *Cephalozia furcifolia* Steph., Bull. Herb. Boissier (sér. 2) 8 (7): 485 (315), 1908 (Stephani 1908f).
- ** *Paracromastigum granatense* (Gottsche) R.M.Schust., J. Hattori Bot. Lab. 48: 341, 1980 (Schuster 1980a). Bas.: *Lepidozia granatensis* Gottsche, Ann. Sci. Nat. Bot. (sér. 5) 1: 139, 1864 (Gottsche 1864).
- ** *Paracromastigum longiscyphum* (Taylor) R.M.Schust. et J.J.Engel, Brittonia 48 (2): 167, 1996 (Schuster and Engel 1996). Bas.: *Jungermannia longiscypha* Taylor, London J. Bot. 5: 280, 1846 (Taylor 1846a).
- ** *Paracromastigum macrostipum* (Steph.) R.M.Schust., J. Hattori Bot. Lab. 26: 276, 1963 (Schuster 1963b). Bas.: *Cephalozia macrostipa* Steph., Hedwigia 32 (5): 315, 1893 (Stephani 1893d).
- ** *Paracromastigum micromera* (Spruce) R.M.Schust., J. Hattori Bot. Lab. 26: 276, 1963 (Schuster 1963b). Bas.: *Cephalozia micromera* Spruce, Cephalozia: 32, 1882 (Spruce 1882).
- ** *Paracromastigum microphyllum* (R.M.Schust. ex J.J.Engel) E.D.Cooper, Phytotaxa 97 (2): 61, 2013 (Cooper et al. 2013). Bas.: *Hyalolepidozia microphylla* R.M.Schust. ex J.J.Engel, Novon 17 (3): 310, 2007 (Engel 2007).
- *** *Paracromastigum pachyrrhizum* (Nees) Fulford, Mem. New York Bot. Gard. 11 (3): 390, 1968 (Fulford 1968). Bas.: *Jungermannia pachyrrhiza* Nees, Fl. Bras. (Martius) 1 (1): 339, 1833 (Nees 1833a).
- ** *Paracromastigum ryszardii* Váňa, Bedn.-Ochyra et Cykowska, Nova Hedwigia 89 (1/2): 122, 2009 (Váňa et al. 2009).
- ** *Paracromastigum stipulatum* (Herzog) Fulford, Mem. New York Bot. Gard. 11 (3): 390, 1968 (Fulford 1968). Bas.: *Cephalozia stipulata* Herzog, Memoranda Soc. Fauna Fl. Fennica 27: 105, 1952 (Herzog 1952c).
- ** *Paracromastigum subsimplex* (Steph.) Fulford et J.Taylor, Brittonia 13 (4): 336, 1961 (Fulford and Taylor 1961). Bas.: *Lepidozia subsimplex* Steph., Kungl. Svenska Vetensk.-Akad. Handl. (n.ser.) 46 (9): 66, 1911 (Stephani 1911b).
- ** *Paracromastigum succulentum* (Sim) J.J.Engel et G.L.Merr., Bryologist 104 (1): 151, 2001 (Engel and Smith Merrill 2001). Bas.: *Lepidozia succulenta* Sim, Trans. Roy. Soc. South Africa 15 (1): 90, 1926 (Sim 1926).
- ** *Paracromastigum tristanianum* (R.M.Schust.) J.J.Engel et R.M.Schust., J. Hattori Bot. Lab. 38: 700, 1974 (Schuster and Engel 1974). Bas.: *Pseudocephalozia tristaniana* R.M.Schust., Nova Hedwigia 10 (1/2): 23, 1965 (Schuster 1965b).

- ** *Paracromastigum vastilobum* (Steph.) J.J.Engel et G.L.Merr., Fieldiana, Bot. (n.ser.) 44: 255, 2004 (Engel and Smith Merrill 2004). Bas.: *Lepidozia vastiloba* Steph., Sp. Hepat. (Stephani) 3: 581, 1909 (Stephani 1909a).
- ** *Psiloclada Mitt.*, Bot. antarct. voy. II (Fl. Nov.-Zel. 2): 143, 1854 (Mitten 1854).
- *** *Psiloclada clandestina* Mitt., Bot. antarct. voy. II (Fl. Nov.-Zel. 2): 143, 1854 (Mitten 1854).
- ** *Psiloclada clandestina* subsp. *melanesica* R.M.Schust., J. Hattori Bot. Lab. 48: 411, 1980 (Schuster 1980a).
- ** *Psiloclada clandestina* subsp. *spinosa* (S.W.Arnell) R.M.Schust., J. Hattori Bot. Lab. 48: 410, 1980 (Schuster 1980a). Bas.: *Lepidozia spinosa* S.W.Arnell, Bot. Not. 107: 427, 1954 (Arnell 1954c).
- ** *Pteropsiella Spruce*, J. Bot. 14: 161, 1876 (Spruce 1876b).
- *** *Pteropsiella frondiformis* Spruce, J. Bot. 14: 161, 1876 (Spruce 1876b).
- ** *Pteropsiella metzgeriiformis* R.M.Schust., Nova Hedwigia 10 (1/2): 25, 1965 (Schuster 1965b).
- ** *Telaranea Spruce ex Schiffn.*, Hepat. (Engl.-Prantl): 103, 1893 (Schiffner 1893b) nom. conserv. Based on: *Telaranea* Spruce, Trans. & Proc. Bot. Soc. Edinburgh 15: 365, 1885 (Spruce 1885).¹²⁹
- * **sect. *Telaranea***
- *** *Telaranea apiahyna* (Steph.) Fulford, Brittonia 15 (1): 71, 1963 (Fulford 1963). Bas.: *Lepidozia apiahyna* Steph., Sp. Hepat. (Stephani) 3: 572, 1909 (Stephani 1909a).
- *** *Telaranea bicruris* (Steph.) M.Howe, Bull. Torrey Bot. Club 29 (5): 287, 1902 (Howe 1902). Bas.: *Lepidozia bicruris* Steph., Hedwigia 24 (4): 166, 1885 (Stephani 1885f).
- *** *Telaranea blepharostoma* (Steph.) Fulford, Brittonia 15 (1): 73, 1963 (Fulford 1963). Bas.: *Lepidozia blepharostoma* Steph., Bih. Kongl. Svenska Vetensk.-Akad. Handl. 26 (III, 17): 22, 1901 (Stephani 1901b).
- *** *Telaranea breviseta* (Herzog) J.J.Engel et G.L.Merr., Fieldiana, Bot. (n.ser.) 44: 131, 2004 (Engel and Smith Merrill 2004). Bas.: *Lepidozia sejuncta* var. *breviseta* Herzog, Nat. Hist. Juan Fernandez (Botany) 2 (5): 723, 1942 (Herzog 1942a).
- *** *Telaranea chaetophylla* (Spruce) Schiffn., Hepat. (Engl.-Prantl): 103, 1893 (Schiffner 1893b). Bas.: *Lepidozia chaetophylla* Spruce, Trans. & Proc. Bot. Soc. Edinburgh 15: 365, 1885 (Spruce 1885).
- *** *Telaranea europaea* J.J.Engel et G.L.Merr., Fieldiana, Bot. (n.ser.) 44: 150, 2004 (Engel and Smith Merrill 2004).

¹²⁹ *Telaranea* is a heterogeneous genus and several segregates are warranted. Additional studies are needed to clarify the relationships of the species retained here (Cooper 2013).

- *** *Telaranea fragilis* Mizut., J. Hattori Bot. Lab. 40: 449, 1976 (Mizutani 1976a).
- *** *Telaranea granulata* J.J.Engel et G.L.Merr., Fieldiana, Bot. (n.ser.) 44: 103, 2004 (Engel and Smith Merrill 2004).
- *** *Telaranea longifolia* (M.Howe) J.J.Engel et G.L.Merr., Fieldiana, Bot. (n.ser.) 44: 163, 2004 (Engel and Smith Merrill 2004). Bas.: *Telaranea nematodes* var. *longifolia* M.Howe, Bull. Torrey Bot. Club 29 (5): 286, 1902 (Howe 1902).
- *** *Telaranea nematodes* (Gottsche ex Austin) M.Howe, Bull. Torrey Bot. Club 29 (5): 284, 1902 (Howe 1902). Bas.: *Cephalozia nematodes* Gottsche ex Austin, Bull. Torrey Bot. Club 6 (52): 302, 1879 (Austin 1879).
- *** *Telaranea panchoi* Del Ros., Philipp. J. Sci. 100 (3/4): 238, 1971 (Del Rosario 1971).
- *** *Telaranea pellucida* J.J.Engel et G.L.Merr., Fieldiana, Bot. (n.ser.) 44: 179, 2004 (Engel and Smith Merrill 2004).
- *** *Telaranea pseudozoopsis* (Herzog) Fulford, Brittonia 15 (1): 71, 1963 (Fulford 1963). Bas.: *Lepidozia pseudozoopsis* Herzog, Nat. Hist. Juan Fernandez (Botany) 2 (5): 723, 1942 (Herzog 1942a).
- *** *Telaranea redacta* (Steph.) J.J.Engel et G.L.Merr., Fieldiana, Bot. (n.ser.) 44: 186, 2004 (Engel and Smith Merrill 2004). Bas.: *Lepidozia redacta* Steph., Wiss. Ergebn. Deut. Zentr.-Afr. Exped. (1907-08), Bot. 2: 119, 1911 (Stephani 1911a).
- *** *Telaranea rosarioana* H.A.Mill., J. Bryol. 14 (2): 240, 1986 (Miller 1986).
- *** *Telaranea setosa* J.J.Engel et G.L.Merr., Fieldiana, Bot. (n.ser.) 44: 192, 2004 (Engel and Smith Merrill 2004).
- *** *Telaranea trisetosa* (Steph.) Grolle, J. Hattori Bot. Lab. 29: 280, 1966 (Grolle 1966g). Bas.: *Lepidozia trisetosa* Steph., Sp. Hepat. (Stephani) 3: 607, 1909 (Stephani 1909a).
- * **sect. *Tenuifoliae* (R.M.Schust.) J.J.Engel et G.L.Merr.**, Fieldiana, Bot. (n.ser.) 44: 112, 2004 (Engel and Smith Merrill 2004). Bas.: *Arachniopsis* sect. *Tenuifoliae* R.M.Schust., Beih. Nova Hedwigia 118: 461, 2000 (Schuster 2000a).
- *** *Telaranea anomala* R.M.Schust. ex J.J.Engel et G.L.Merr., Fieldiana, Bot. (n.ser.) 44: 121, 2004 (Engel and Smith Merrill 2004).
- ** *Telaranea bischleriana* Pócs, Acta Bot. Hung. 48 (1/2): 120, 2006 (Pócs 2006c).
- *** *Telaranea coactilis* (Spruce) J.J.Engel et G.L.Merr., Fieldiana, Bot. (n.ser.) 44: 140, 2004 (Engel and Smith Merrill 2004). Bas.: *Arachniopsis coactilis* Spruce, Cephalozia: 85, 1882 (Spruce 1882).
- *** *Telaranea confervoides* J.J.Engel et G.L.Merr., Fieldiana, Bot. (n.ser.) 44: 143, 2004 (Engel and Smith Merrill 2004). Based on: *Arachniopsis pecten* var. *confervoides* R.M.Schust., Beih. Nova Hedwigia 118: 455, 2000 (Schuster 2000a), *nom. inval.*
- *** *Telaranea diacantha* (Mont.) J.J.Engel et G.L.Merr., Fieldiana, Bot. (n.ser.) 44: 145, 2004 (Engel and Smith Merrill 2004). Bas.: *Jungermannia diacantha* Mont., Ann. Sci. Nat. Bot. (sér. 4) 5: 349, 1856 (Montagne 1856c).
- *** *Telaranea herzogii* (E.A.Hodgs.) E.A.Hodgs., Rec. Domin. Mus. 4 (11): 106, 1962 (Hodgson 1962a). Bas.: *Lepidozia herzogii* E.A.Hodgs., Trans. & Proc. Roy. Soc. New Zealand 78 (4): 500, 1950 (Martin 1950).

- *** *Telaranea inaequalis* R.M.Schust. ex J.J.Engel et G.L.Merr., Fieldiana, Bot. (n.ser.) 44: 117, 2004 (Engel and Smith Merrill 2004).
- ** *Telaranea maorensis* Pócs, Acta Bot. Hung. 48 (1/2): 124, 2006 (Pócs 2006c).
- *** *Telaranea microstipulata* R.M.Schust., Phytologia 39 (4): 241, 1978 (Schuster 1978a).
- *** *Telaranea monocera* (Mitt. ex R.M.Schust. et Grolle) J.J.Engel et G.L.Merr., Fieldiana, Bot. (n.ser.) 44: 168, 2004 (Engel and Smith Merrill 2004). Bas.: *Arachniopsis monocera* Mitt. ex R.M.Schust. et Grolle, Nova Hedwigia 10 (1/2): 25, 1965 (Schuster 1965b).
- *** *Telaranea pecten* (Spruce) J.J.Engel et G.L.Merr., Fieldiana, Bot. (n.ser.) 44: 178, 2004 (Engel and Smith Merrill 2004). Bas.: *Arachniopsis pecten* Spruce, Cephalozia: 85, 1882 (Spruce 1882).
- *** *Telaranea sejuncta* (Ångstr.) S.W.Arnell, Bot. Not. 110 (1): 18, 1957 (Arnell 1957a). Bas.: *Blepharostoma sejunctum* Ångstr., Öfvers. Kongl. Vetensk.-Akad. Förh. 33 (7): 78, 1876 [1877] (Ångström 1876).
- *** *Telaranea tenuifolia* J.J.Engel et G.L.Merr., Fieldiana, Bot. (n.ser.) 44: 193, 2004 (Engel and Smith Merrill 2004). Based on: *Arachniopsis tenuifolia* R.M.Schust., Beih. Nova Hedwigia 118: 461, 2000 (Schuster 2000a), *nom. inval.*

Incertae sedis

- ** *Telaranea azorica* (H.Buch et Perss.) Pócs in Schumacker et Váňa, Identif. keys liverw. hornw. Europe: 160, 2005 (Schumacker and Váňa 2005). Bas.: *Lepidozia azorica* H.Buch et Perss., Bryophyt. Azoren Madeira: 4, 1941 (Buch and Persson 1941).
- ** *Telaranea indica* (S.C.Srivast. et P.K.Verma) A.E.D.Daniels et P.Daniel, Bull. Bot. Surv. India 49 (1/4): 231, 2007 (Daniels and Daniel 2007). Bas.: *Arachniopsis indica* S.C.Srivast. et P.K.Verma, Natl. Acad. Sci. Lett. 27 (7/8): 270, 2004 [2006] (Srivastava and Verma 2004).
- ** *Telaranea major* (Herzog) J.J.Engel et G.L.Merr., Fieldiana, Bot. (n.ser.) 44: 165, 2004 (Engel and Smith Merrill 2004). Bas.: *Arachniopsis major* Herzog, Trans. Brit. Bryol. Soc. 1 (4): 294, 1950 (Herzog 1950a).
- ** ***Zoopsidella* R.M.Schust.**, Nova Hedwigia 10 (1/2): 24, 1965 (Schuster 1965b).
- ** *Zoopsidella antillana* (Steph.) H.Rob., Bol. Soc. Venez. Ci. Nat. 32 (132/133): 254, 1976 (Robinson 1976b). Bas.: *Zoopsis antillana* Steph., Bull. Herb. Boissier (sér. 2) 8 (4): 268 (282), 1908 (Stephani 1908j).
- ** *Zoopsidella antillana* subsp. *jamaicensis* R.M.Schust., Nova Hedwigia 69 (1/2): 132, 1999 (Schuster 1999b).
- *** *Zoopsidella caledonica* (Steph.) R.M.Schust., Taxon 18 (1): 57, 1969 (Schuster 1969c). Bas.: *Zoopsis caledonica* Steph., Sp. Hepat. (Stephani) 6: 318, 1922 (Stephani 1922).
- ** *Zoopsidella cynosurandra* (Steph.) R.M.Schust., Nova Hedwigia 10 (1/2): 24, 1965 (Schuster 1965b). Bas.: *Zoopsis cynosurandra* Steph., Bull. Herb. Boissier (sér. 2) 8 (4): 269 (283), 1908 (Stephani 1908j).

- *** *Zoopsidella integrifolia* (Spruce) R.M.Schust., Bull. Natl. Sci. Mus. Tokyo (n.ser.) 12 (3): 666, 1969 (Schuster 1969a). Bas.: *Cephalozia integrifolia* Spruce, Cephalozia: 29, 1882 (Spruce 1882).
- ** *Zoopsidella macella* (Spruce) R.M.Schust., Bull. Natl. Sci. Mus. Tokyo (n.ser.) 12 (3): 666, 1969 (Schuster 1969a). Bas.: *Cephalozia macella* Spruce, Cephalozia: 29, 1882 (Spruce 1882).
- *** *Zoopsidella serra* (Spruce) R.M.Schust., Bull. Natl. Sci. Mus. Tokyo (n.ser.) 12 (3): 666, 1969 (Schuster 1969a). Bas.: *Cephalozia serra* Spruce, Cephalozia: 32, 1882 (Spruce 1882).
- ** ***Zoopsis* Hook.f. ex Gottsche, Lindenb. et Nees**, Syn. Hepat. 4: 473, 1846 (Gottsche et al. 1846).
- ** **subg. *Eozoopsis* R.M.Schust.**, J. Hattori Bot. Lab. 36: 373, 1972 (Schuster 1972).
- *** *Zoopsis leitgebiana* (Carrington et Pearson) Bastow, Pap. & Proc. Roy. Soc. Tasmania 1887: 269, 1888 (Bastow 1888). Bas.: *Cephalozia leitgebiana* Carrington et Pearson, Pap. & Proc. Roy. Soc. Tasmania 1887: 3, 1888 (Carrington and Pearson 1888b).
- *** *Zoopsis macrophylla* R.M.Schust., Nova Hedwigia 68 (1/2): 14, 1999 (Schuster 1999d).
- ** **subg. *Zoopsis***
- *** *Zoopsis argentea* (Hook.f. et Taylor) Gottsche, Lindenb. et Nees, Syn. Hepat. 4: 473, 1846 (Gottsche et al. 1846). Bas.: *Jungermannia argentea* Hook.f. et Taylor, London J. Bot. 3: 400, 1844 (Hooker and Taylor 1844a).
- ** *Zoopsis argentea* var. *flagelliformis* (Colenso) R.M.Schust., Nova Hedwigia 68 (1/2): 38, 1999 (Schuster 1999d). Bas.: *Zoopsis flagelliformis* Colenso, Trans. & Proc. New Zealand Inst. 18: 250, 1886 (Colenso 1886b).
- *** *Zoopsis bicruris* Glenny et E.A.Br., J. Bryol. 28 (4): 332, 2006 (Renner et al. 2006).
- ** *Zoopsis liukiensis* Horik., J. Sci. Hiroshima Univ., Ser. B, Div. 2, Bot. 1: 65, 1931 (Horikawa 1931a).
- *** *Zoopsis matawaia* M.A.M.Renner, J. Bryol. 28 (4): 334, 2006 (Renner et al. 2006).
- *** *Zoopsis nitida* Glenny, Braggins et R.M.Schust., J. Bryol. 19 (4): 776, 1997 (Glenny et al. 1997).
- *** *Zoopsis setulosa* Leitg., Mitt. Naturwiss. Vereins Steiermark 13: 24, 1876 (Leitgeb 1876).
- Incertae sedis***
- *** *Zoopsis ceratophylla* (Spruce) Hamlin, Rec. Domin. Mus. 7: 311, 1972 (Hamlin 1972). Bas.: *Cephalozia ceratophylla* Spruce, Cephalozia: 32, 1882 (Spruce 1882).

- * *Zoopsis ciliata* Colenso, Trans. & Proc. New Zealand Inst. 20: 253, 1888 (Colenso 1888).¹³⁰
- * *Zoopsis martinicensis* Steph., Bull. Herb. Boissier (sér. 2) 8 (4): 268 (282), 1908 (Stephani 1908j).
- ** *Zoopsis setigera* K.I.Goebel, Flora 77 (2): 93, 1893 (Goebel 1893b).
- ** *Zoopsis uleana* Steph., Hedwigia 44 (4): 225, 1905 (Stephani 1905a).

*** Lophocoleaceae Vanden Berghen

by B.J. Crandall-Stotler, R. Stotler, J. Váňa, J.J.Engel and L. Söderström

Söderström et al. (2013b) outlined the current status of Lophocoleaceae noting that several taxonomic problems in delimitating genera remain. The placement of several species is also unclear. Nomenclatural and taxonomic notes can be found in Söderström et al. (2013b, 2013f).

- ** *Bragginsella* R.M.Schust., Bryologist 100 (3): 363, 1997 (Schuster 1997a).
- *** *Bragginsella anomala* R.M.Schust., Bryologist 100 (3): 363, 1997 (Schuster 1997a).
- *** *Chiloscyphus* Corda, Gen. hepat.: 651, 1829 (Corda 1829) nom. conserv.
- ** *Chiloscyphus kashyapii* A.Srivast. et S.C.Srivast., Indian Geocalyc.: 34, 2002 (Srivastava and Srivastava 2002).
- *** *Chiloscyphus pallescens* (Ehrh.) Dumort., Syll. Jungerm. Europ.: 67, 1831 (Dumortier 1831). Bas.: *Jungermannia pallescens* Ehrh., Deutschl. Fl., Theil 2 (Hoffm.): 87, 1795 [1796] (Hoffmann 1795).
- * *Chiloscyphus pallescens* var. *fragilis* (Roth) Müll.Frib., Ber. Deutsch. Bot. Ges. 59 (10): 429, 1942 (Müller 1942). Bas.: *Jungermannia fragilis* Roth, Tent. Fl. Germ. 3: 370, 1800 (Roth 1800).¹³¹
- *** *Chiloscyphus polyanthos* (L.) Corda, Gen. hepat.: 651, 1829 (Corda 1829). Bas.: *Jungermannia polyanthos* L., Sp. Pl. 1: 1131, 1753 (Linnaeus 1753).
- * *Chiloscyphus polyanthos* var. *rivularis* (Schrad.) Lindb. et Arnell, Kongl. Svenska Vetensk.-Akad. Handl. (n.ser.) 23 (5): 24, 1889 (Lindberg and Arnell 1889). Bas.: *Jungermannia pallescens* var. *rivularis* Schrad., Syst. Samml. Crypt. Gew. 2: 7, 1797 (Schrad. 1797).¹³²

130 *Zoopsis ciliata* was not studied by Engel and Glenny (2008a) and they did not know what it may be.

131 *Chiloscyphus pallescens* var. *fragilis* is a problematic taxon sometimes treated as a species, sometimes as conspecific with *Chiloscyphus pallescens*, sometimes as conspecific with *Chiloscyphus polyanthos*.

132 *Chiloscyphus polyanthos* var. *rivularis* is a problematic taxon sometimes treated as a species, sometimes as conspecific with *Chiloscyphus polyanthos*.

Incertae sedis¹³³

- ** *Chiloscyphus acutus* Steph., Sp. Hepat. (Stephani) 6: 302, 1922 (Stephani 1922).
- ** *Chiloscyphus alpicola* J.J.Engel, Phytotaxa 207 (2): 181, 2015 (Engel 2015b).
- ** *Chiloscyphus beesleyanus* Pearson, J. Linn. Soc., Bot. 46 (305): 22, 1922 (Pearson 1922b).
- * *Chiloscyphus bifidus* Schiffn., Hep. Fl. Buitenzorg: 200, 1900 (Schiffner 1900a).¹³⁴
- ** *Chiloscyphus breviculus* B.Y. Yang et W.C. Lee, Bot. Bull. Acad. Sin. (n.ser.) 5 (2): 190, 1964 (Yang and Lee 1964).
- * *Chiloscyphus brevistipulus* Steph., Sp. Hepat. (Stephani) 6: 303, 1922 (Stephani 1922).
- ** *Chiloscyphus chinmarensis* Manju, K.P. Rajesh et Madhus., Acta Bot. Hung. 53 (1/2): 152, 2011 (Manju et al. 2011).
- ** *Chiloscyphus confertifolius* Steph., Sp. Hepat. (Stephani) 6: 304, 1922 (Stephani 1922).
- ** *Chiloscyphus confertus* Steph., Sp. Hepat. (Stephani) 6: 305, 1922 (Stephani 1922).
- ** *Chiloscyphus cornutistipulus* Steph., Sp. Hepat. (Stephani) 6: 303, 1922 (Stephani 1922).
- * *Chiloscyphus durus* (Steph.) Hässel, Revista Mus. Argent. Ci. Nat. (n.ser.) 1 (2): 122, 1999 (Hässel 1999). Bas.: *Lophocolea dura* Steph., Kungl. Svenska Vetensk.-Akad. Handl. (n.ser.) 46 (9): 43, 1911 (Stephani 1911b).¹³⁵
- * *Chiloscyphus ernstianus* Steph., Sp. Hepat. (Stephani) 6: 306, 1922 (Stephani 1922).
- ** *Chiloscyphus etesseanus* Steph., Bull. Herb. Boissier (sér. 2) 7 (10): 845 (217), 1907 (Stephani 1907b).
- ** *Chiloscyphus francanus* Steph., Sp. Hepat. (Stephani) 6: 306, 1922 (Stephani 1922).
- ** *Chiloscyphus graeffeanus* Steph., Sp. Hepat. (Stephani) 6: 307, 1922 (Stephani 1922).
- ** *Chiloscyphus greenwelliae* (H.A. Mill.) H.A. Mill., J. Hattori Bot. Lab. 30: 275, 1967 (Miller 1967). Bas.: *Lophocolea greenwelliae* H.A. Mill., Ark. Bot. (n.ser.) 5 (2): 504, 1963 (Miller 1963).
- ** *Chiloscyphus hookeri* J.J. Engel, J. Hattori Bot. Lab. 36: 150, 1972 [1973] (Engel 1972).
- * *Chiloscyphus hookeri* var. *constantifolius* J.J. Engel, J. Hattori Bot. Lab. 36: 155, 1972 [1973] (Engel 1972).
- ** *Chiloscyphus integerrimus* Schiffn., Hep. Fl. Buitenzorg: 197, 1900 (Schiffner 1900a).
- ** *Chiloscyphus kehdingianus* (Steph.) N. Kitag., Hikobia, Suppl. 1: 68, 1981 (Kitagawa 1981a). Bas.: *Lophocolea kehdingiana* Steph., Sp. Hepat. (Stephani) 6: 278, 1922 (Stephani 1922).
- ** *Chiloscyphus kilauensis* Steph., Sp. Hepat. (Stephani) 6: 309, 1922 (Stephani 1922).
- ** *Chiloscyphus koepensis* (Gottsche) Steph., Bull. Herb. Boissier (sér. 2) 8 (2): 139 (255), 1908 (Stephani 1908i). Bas.: *Jungermannia koepensis* Gottsche, Int. Polarforsch., Deutsch. Exped. 2: 452, 1890 (Gottsche 1890).

133 *Chiloscyphus* is here treated in a very narrow sense (cf. Söderström et al. 2013b), but a large number of species remain to be assigned to other genera. It is unclear if the taxa included here belong to *Cryptolophocolea*, *Lophocolea* or some other genus in Lophocoleaceae.

134 *Chiloscyphus bifidus* is possibly conspecific with *Heteroscyphus aselliformis* (Schiffner 1900a).

135 *Chiloscyphus durus* is conspecific with *Leptoscyphus expansus* in Grolle (1962a), but it probably belongs to one of its segregates. It was accepted by Hässel (1999).

- ** *Chiloscyphus laceratus* Steph., Sp. Hepat. (Stephani) 6: 310, 1922 (Stephani 1922).
- ** *Chiloscyphus lambertonii* H.A.Mill., Ark. Bot. (n.ser.) 5 (2): 506, 1963 (Miller 1963).
- ** *Chiloscyphus latistipus* Steph., Sp. Hepat. (Stephani) 6: 309, 1922 (Stephani 1922).
- ** *Chiloscyphus lepevanchei* (Steph.) J.J.Engel et R.M.Schust., Nova Hedwigia 39: 418, 1984 [1985] (Engel and Schuster 1984). Bas.: *Lophocolea lepevanchei* Steph., Bull. Herb. Boissier (sér. 2) 7 (4): 310 (174), 1907 (Stephani 1907d).
- ** *Chiloscyphus longifissus* Steph., Sp. Hepat. (Stephani) 6: 310, 1922 (Stephani 1922).
- ** *Chiloscyphus propagulifer* Schiffn., Hep. Fl. Buitenzorg: 208, 1900 (Schiffner 1900a).
- ** *Chiloscyphus purpureus* Steph., Sp. Hepat. (Stephani) 6: 312, 1922 (Stephani 1922).
- ** *Chiloscyphus quadricilius* Steph., Sp. Hepat. (Stephani) 6: 312, 1922 (Stephani 1922).
- *** *Chiloscyphus quadridentatus* (Spruce) J.J.Engel et R.M.Schust., Nova Hedwigia 39: 422, 1984 [1985] (Engel and Schuster 1984). Bas.: *Lophocolea quadridentata* Spruce, Mem. Torrey Bot. Club 1 (3): 137, 1890 (Spruce 1890).
- ** *Chiloscyphus rotundifolius* Mitt., Rep. Challenger, Bot. 1 (3, 1): 85, 1884 (Mitten 1884b).
- ** *Chiloscyphus rotundiphyllus* H.A.Mill., Phytologia 47 (4): 321, 1981 (Miller 1981). *Nom. nov. pro Chiloscyphus rotundifolius* Steph., Sp. Hepat. (Stephani) 6: 313, 1922 (Stephani 1922), *nom. illeg.*
- ** *Chiloscyphus scaberulus* Spruce, Bull. Soc. Bot. France (Congr. Bot.) 36: cc, 1889 [1890] (Spruce 1889).
- ** *Chiloscyphus septatus* J.J.Engel, Fieldiana, Bot. (n.ser.) 48: 125, 2010 (Engel 2010).
- ** *Chiloscyphus similis* Steph., Rev. Bryol. 35 (2): 28, 1908 (Stephani 1908l).
- ** *Chiloscyphus skottsbergianus* H.A.Mill., Ark. Bot. (n.ser.) 5 (2): 508, 1963 (Miller 1963).
- ** *Chiloscyphus subacuminatus* Herzog, Ark. Bot. (n.ser.) 3 (3): 49, 1953 (Herzog 1953a).
- ** *Chiloscyphus subsimilis* Steph., Sp. Hepat. (Stephani) 6: 314, 1922 (Stephani 1922).
- * *Chiloscyphus tridens* Steph., Sp. Hepat. (Stephani) 6: 315, 1922 (Stephani 1922).
- ** *Chiloscyphus trigonifolius* Steph., Sp. Hepat. (Stephani) 6: 316, 1922 (Stephani 1922).
- * *Chiloscyphus venustulus* Colenso, Trans. & Proc. New Zealand Inst. 21: 60, 1889 (Colenso 1889).
- ** ***Clasmatocolea* Spruce**, Trans. & Proc. Bot. Soc. Edinburgh 15: 440, 1885 (Spruce 1885).¹³⁶
- *** *Clasmatocolea bisexualis* Glenny et J.J.Engel, New Zealand J. Bot. 51 (1): 23, 2013 (Glenny and Engel 2013).
- *** *Clasmatocolea crassiretis* (Herzog) Grolle, Nova Acta Leop. (n.ser.) 25 (161): 69, 1962 [1963] (Grolle 1962a). Bas.: *Lophocolea crassiretis* Herzog, Trans. & Proc. Roy. Soc. New Zealand 65 (3): 354, 1936 (Herzog 1936b).
- *** *Clasmatocolea ctenophylla* (Schiffn.) Grolle, Rev. Bryol. Lichénol. 29 (1/2): 71, 1960 (Grolle 1960c). Bas.: *Lophocolea ctenophylla* Schiffn., Leberm., Forschungsr. Gazelle 4 (4): 12, 1890 (Schiffner 1890).

136 *Clasmatocolea* is here treated without subdivisions although Engel (1980a, 2015) did so.

- *** *Clasmatocolea cucullistipula* (Steph.) Grolle, Rev. Bryol. Lichénol. 29 (1/2): 71, 1960 (Grolle 1960c). Bas.: *Lophocolea cucullistipula* Steph., Bih. Kongl. Svenska Vetensk.-Akad. Handl. 26 (III, 6): 37, 1900 (Stephani 1900b).
- *** *Clasmatocolea fasciculata* (Nees) Grolle, Rev. Bryol. Lichénol. 29 (1/2): 72, 1960 (Grolle 1960c). Bas.: *Jungermannia fasciculata* Nees, Horae Phys. Berol.: 46, 1820 (Nees 1820).
- *** *Clasmatocolea fulvella* (Hook.f. et Taylor) Grolle, Rev. Bryol. Lichénol. 29 (1/2): 72, 1960 (Grolle 1960c). Bas.: *Jungermannia fulvella* Hook.f. et Taylor, London J. Bot. 3: 464, 1844 (Hooker and Taylor 1844b).
- *** *Clasmatocolea gayana* (Mont.) Grolle, Rev. Bryol. Lichénol. 29 (1/2): 72, 1960 (Grolle 1960c). Bas.: *Jungermannia gayana* Mont., Ann. Sci. Nat. Bot. (sér. 3) 4: 349, 1845 (Montagne 1845b).
- *** *Clasmatocolea humilis* (Hook.f. et Taylor) Grolle, Rev. Bryol. Lichénol. 29 (1/2): 72, 1960 (Grolle 1960c). Bas.: *Jungermannia humilis* Hook.f. et Taylor, London J. Bot. 3: 468, 1844 (Hooker and Taylor 1844b).
- *** *Clasmatocolea humilis* var. *polymorpha* J.J.Engel, Phytologia 41 (5): 309, 1979 (Engel 1979a).
- *** *Clasmatocolea humilis* var. *suspecta* (C.Massal.) J.J.Engel, Phytologia 41 (5): 309, 1979 (Engel 1979a). Bas.: *Lophocolea puccioana* β *suspecta* C.Massal., Nuovo Giorn. Bot. Ital. 17 (3): 228, 1885 (Massalongo 1885).
- *** *Clasmatocolea inflexispina* (Hook.f. et Taylor) J.J.Engel, Bryologist 94 (4): 436, 1991 (Engel 1991b). Bas.: *Jungermannia inflexispina* Hook.f. et Taylor, London J. Bot. 4: 82, 1845 (Hooker and Taylor 1845).
- *** *Clasmatocolea marginata* (Steph.) Grolle, Nova Acta Leop. (n.ser.) 25 (161): 73, 1962 [1963] (Grolle 1962a). Bas.: *Leioscyphus marginatus* Steph., Bull. Herb. Boissier (sér. 2) 6 (3): 223 (23), 1906 (Stephani 1906g).
- *** *Clasmatocolea minutiretis* J.J.Engel et Grolle, Phytologia 41 (5): 309, 1979 (Engel 1979a).
- *** *Clasmatocolea moniliformis* J.J.Engel, Phytologia 41 (5): 310, 1979 (Engel 1979a).
- *** *Clasmatocolea navistipula* (Steph.) Grolle, Feddes Repert. 82 (1): 88, 1971 (Grolle 1971b). Bas.: *Lophocolea navistipula* Steph., Bull. Herb. Boissier (sér. 2) 6 (7): 543 (57), 1906 (Stephani 1906f).
- *** *Clasmatocolea navistipula* var. *parceramosa* J.J.Engel, Phytologia 41 (5): 311, 1979 (Engel 1979a).
- *** *Clasmatocolea notophylla* (Hook.f. et Taylor) Grolle, J. Jap. Bot. 41 (8): 228, 1966 (Grolle 1966d). Bas.: *Jungermannia notophylla* Hook.f. et Taylor, London J. Bot. 3: 376, 1844 (Hooker and Taylor 1844a).
- *** *Clasmatocolea obvoluta* (Hook.f. et Taylor) Grolle, Rev. Bryol. Lichénol. 29 (1/2): 72, 1960 (Grolle 1960c). Bas.: *Jungermannia obvoluta* Hook.f. et Taylor, London J. Bot. 4: 80, 1845 (Hooker and Taylor 1845).
- *** *Clasmatocolea obvoluta* var. *cookiana* (C.Massal.) J.J.Engel, Phytologia 41 (5): 311, 1979 (Engel 1979a). Bas.: *Lophocolea cookiana* C.Massal., Nuovo Giorn. Bot. Ital. 17 (3): 224, 1885 (Massalongo 1885).

- *** *Clasmatocolea puccioana* (De Not.) Grolle, Rev. Bryol. Lichénol. 29 (1/2): 72, 1960 (Grolle 1960c). Bas.: *Jungermannia puccioana* De Not., Mem. Reale Accad. Sci. Torino (ser. 2) 16: 221, 1857 (De Notaris 1857).
- *** *Clasmatocolea rigens* (Hook.f. et Taylor) J.J.Engel, J. Hattori Bot. Lab. 36: 156, 1972 [1973] (Engel 1972). Bas.: *Jungermannia rigens* Hook.f. et Taylor, London J. Bot. 3: 461, 1844 (Hooker and Taylor 1844b).
- *** *Clasmatocolea strongylophylla* (Hook.f. et Taylor) Grolle, Rev. Bryol. Lichénol. 29 (1/2): 73, 1960 (Grolle 1960c). Bas.: *Jungermannia strongylophylla* Hook.f. et Taylor, London J. Bot. 3: 370, 1844 (Hooker and Taylor 1844a).
- *** *Clasmatocolea trachyopa* (Hook.f. et Taylor) Grolle, Rev. Bryol. Lichénol. 29 (1/2): 73, 1960 (Grolle 1960c). Bas.: *Jungermannia trachyopa* Hook.f. et Taylor, London J. Bot. 3: 471, 1844 (Hooker and Taylor 1844b).
- *** *Clasmatocolea vermicularis* (Lehm.) Grolle, Rev. Bryol. Lichénol. 29 (1/2): 78, 1960 (Grolle 1960c). Bas.: *Jungermannia vermicularis* Lehm., Linnæa 4: 361, 1829 (Lehmann 1829).
- *** *Clasmatocolea verrucosa* J.J.Engel, Bryologist 83 (2): 220, 1980 (Engel 1980b).
- *** **Conoscyphus Mitt.**, Fl. vit.: 404, 1871 [1873] (Mitten 1871).
- ** *Conoscyphus kopenenii* Piippo, Mamontov et Potemkin, Acta Bryolichenol. Asiat. 5: 20, 2014 (Piippo et al. 2014).
- *** *Conoscyphus trapezioides* (Sande Lac.) Schiffn., Consp. Hepat. Arch. Ind.: 125, 1898 (Schiffner 1898b). Bas.: *Chiloscyphus trapezioides* Sande Lac., Ned. Kruidk. Arch. 3: 417, 1854 [1855] (Sande Lacoste 1854).
- *** **Cryptolophocolea L.Söderstr., Crand.-Stotl., Stotler et Váňa**, Phytotaxa 97 (2): 39, 2013 (Söderström et al. 2013b). Based on: *Plagiochila* sect. *Connatae* Lindenb., Monogr. hep. gen. Plagiochilae: xxix, 1844 [1843] (Lindenberg 1844).
- *** *Cryptolophocolea aculeata* (Mitt.) L.Söderstr., Phytotaxa 112 (1): 21, 2013 (Söderström et al. 2013f). Bas.: *Chiloscyphus aculeatus* Mitt., Bot. antarct. voy. II (Fl. Nov.-Zel. 2): 140, 1854 (Mitten 1854).
- ** *Cryptolophocolea chiloscyphoidea* (Lindenb.) L.Söderstr. et Crand.-Stotl., Phytotaxa 112 (1): 18, 2013 (Söderström et al. 2013f). Bas.: *Plagiochila chiloscyphoidea* Lindenb., Nov. Stirp. Pug. 8: 4, 1844 (Lehmann 1844).
- *** *Cryptolophocolea ciliolata* (Nees) L.Söderstr., Crand.-Stotl., Stotler et Váňa, Phytotaxa 97 (2): 39, 2013 (Söderström et al. 2013b). Bas.: *Jungermannia ciliolata* Nees, Enum. Pl. Crypt. Javae: 68, 1830 (Nees 1830).
- ** *Cryptolophocolea compacta* (Mitt.) L.Söderstr., Phytotaxa 112 (1): 19, 2013 (Söderström et al. 2013f). Bas.: *Lophocolea compacta* Mitt., Trans. Linn. Soc. London, Bot. 3 (3): 198, 1891 (Mitten 1891).
- *** *Cryptolophocolea connata* (Sw.) L.Söderstr. et Váňa, Phytotaxa 112 (1): 19, 2013 (Söderström et al. 2013f). Bas.: *Jungermannia connata* Sw., Prodr. (Swartz): 143, 1788 (Swartz 1788).

- *** *Cryptolophocolea connatifolia* (J.J.Engel) L.Söderstr., *Phytotaxa* 112 (1): 21, 2013 (Söderström et al. 2013f). Bas.: *Chiloscyphus connatifolius* J.J.Engel, *Phytologia* 83 (1): 42, 1997 [1998] (Engel 1997).
- *** *Cryptolophocolea costata* (Nees) L.Söderstr., *Phytotaxa* 112 (1): 19, 2013 (Söderström et al. 2013f). Bas.: *Jungermannia costata* Nees, *Enum. Pl. Crypt. Javae*: 69, 1830 (Nees 1830).
- *** *Cryptolophocolea edentata* (J.J.Engel) L.Söderstr., *Phytotaxa* 112 (1): 21, 2013 (Söderström et al. 2013f). Bas.: *Chiloscyphus edentatus* J.J.Engel, *Phytologia* 83 (1): 43, 1997 [1998] (Engel 1997).
- ** *Cryptolophocolea explanata* (Mitt.) Váňa et Crand.-Stotl., *Phytotaxa* 202 (1): 69, 2015 (Söderström et al. 2015c). Bas.: *Lophocolea explanata* Mitt., *Fl. vit.*: 404, 1871 [1873] (Mitten 1871).
- ** *Cryptolophocolea fleischeri* (Steph.) L.Söderstr., *Phytotaxa* 112 (1): 21, 2013 (Söderström et al. 2013f). Bas.: *Lophocolea fleischeri* Steph., *Bull. Herb. Boissier* (sér. 2) 6 (11): 952 (132), 1906 (Stephani 1906c).
- *** *Cryptolophocolea guadalupensis* (Steph.) L.Söderstr. et Váňa, *Phytotaxa* 112 (1): 19, 2013 (Söderström et al. 2013f). Bas.: *Lophocolea guadalupensis* Steph., *Bull. Herb. Boissier* (sér. 2) 7 (1): 65 (153), 1907 (Stephani 1907c).
- *** *Cryptolophocolea helmsiana* (Steph.) L.Söderstr., *Phytotaxa* 112 (1): 19, 2013 (Söderström et al. 2013f). Bas.: *Lophocolea helmsiana* Steph., *Bull. Herb. Boissier* (sér. 2) 6 (9): 794 (94), 1906 (Stephani 1906e).
- *** *Cryptolophocolea leucophylla* (Hook.f. et Taylor) L.Söderstr., *Phytotaxa* 112 (1): 19, 2013 (Söderström et al. 2013f). Bas.: *Jungermannia leucophylla* Hook.f. et Taylor, *London J. Bot.* 3: 384, 1844 (Hooker and Taylor 1844a).
- * *Cryptolophocolea levieri* (Schiffn.) L.Söderstr., *Phytotaxa* 112 (1): 21, 2013 (Söderström et al. 2013f). Bas.: *Lophocolea levieri* Schiffn., *Hep. Fl. Buitenzorg*: 182, 1900 (Schiffner 1900a).¹³⁷
- * *Cryptolophocolea lilliena* (Steph.) L.Söderstr., *Phytotaxa* 112 (1): 21, 2013 (Söderström et al. 2013f). Bas.: *Lophocolea lilliena* Steph., *Sp. Hepat.* (Stephani) 6: 282, 1922 (Stephani 1922).¹³⁸
- *** *Cryptolophocolea martiana* (Nees) L.Söderstr., Crand.-Stotl. et Stotler, *Phytotaxa* 112 (1): 20, 2013 (Söderström et al. 2013f). Bas.: *Lophocolea martiana* Nees, *Syn. Hepat.* 2: 152, 1845 (Gottsche et al. 1845a).
- ** *Cryptolophocolea martiana* subsp. *bidentula* (Nees) L.Söderstr., Crand.-Stotl. et Stotler, *Phytotaxa* 112 (1): 20, 2013 (Söderström et al. 2013f). Bas.: *Chiloscyphus bidentulus* Nees, *Syn. Hepat.* 2: 181, 1845 (Gottsche et al. 1845a).
- ** *Cryptolophocolea martiana* var. *perissodonta* (Spruce) Gradst., *Phytoneuron* 2015 (22): 1, 2015 (Bernal et al. 2015). Bas.: *Lophocolea martiana* var. *perissodonta* Spruce, *Trans. & Proc. Bot. Soc. Edinburgh* 15: 432, 1885 (Spruce 1885).

137 *Cryptolophocolea levieri* is possibly conspecific with *Cryptolophocolea ciliolata* (Söderström et al. 2010a).

138 *Cryptolophocolea lilliena* is possibly conspecific with *Cryptolophocolea martiana* (Wigginton and Grolle 1996).

- * *Cryptolophocolea massalongoana* (Schiffn.) L.Söderstr., Phytotaxa 112 (1): 20, 2013 (Söderström et al. 2013f). Bas.: *Lophocolea massalongoana* Schiffn., Hep. Fl. Buitenzorg: 183, 1900 (Schiffner 1900a).¹³⁹
- *** *Cryptolophocolea mitteniana* (Colenso) L.Söderstr., Phytotaxa 112 (1): 21, 2013 (Söderström et al. 2013f). Bas.: *Isotachis mitteniana* Colenso, Trans. & Proc. New Zealand Inst. 21: 69, 1889 (Colenso 1889).
- *** *Cryptolophocolea mitteniana* var. *obtusata* (J.J.Engel) L.Söderstr., Phytotaxa 112 (1): 21, 2013 (Söderström et al. 2013f). Bas.: *Chiloscyphus mittenianus* var. *obtusata* J.J.Engel, Phytologia 83 (1): 44, 1997 [1998] (Engel 1997).
- *** *Cryptolophocolea mitteniana* var. *symmetrica* (J.J.Engel) L.Söderstr., Phytotaxa 112 (1): 22, 2013 (Söderström et al. 2013f). Bas.: *Chiloscyphus mittenianus* var. *symmetricus* J.J.Engel, Phytologia 83 (1): 44, 1997 [1998] (Engel 1997).
- *** *Cryptolophocolea pallida* (Mitt.) L.Söderstr., Phytotaxa 112 (1): 22, 2013 (Söderström et al. 2013f). Bas.: *Lophocolea pallida* Mitt., Bot. antarct. voy. II (Fl. Nov.-Zel. 2): 135, 1854 (Mitten 1854).
- ** *Cryptolophocolea pallidovirens* (Hook.f. et Taylor) L.Söderstr., Phytotaxa 112 (1): 20, 2013 (Söderström et al. 2013f). Bas.: *Jungermannia pallidovirens* Hook.f. et Taylor, London J. Bot. 3: 473, 1844 (Hooker and Taylor 1844b).
- * *Cryptolophocolea proteus* (Herzog) L.Söderstr., Phytotaxa 112 (1): 22, 2013 (Söderström et al. 2013f). Bas.: *Lophocolea proteus* Herzog, Feddes Repert. Spec. Nov. Regni Veg. 57 (1/2): 164, 1955 (Herzog 1955).
- * *Cryptolophocolea pycnophylla* (Spruce) L.Söderstr., Phytotaxa 112 (1): 22, 2013 (Söderström et al. 2013f). Bas.: *Lophocolea pycnophylla* Spruce, Trans. & Proc. Bot. Soc. Edinburgh 15: 434, 1885 (Spruce 1885).
- *** *Cryptolophocolea regularis* (Steph.) L.Söderstr., Phytotaxa 112 (1): 23, 2013 (Söderström et al. 2013f). Bas.: *Chiloscyphus regularis* Steph., Hedwigia 32 (5): 325, 1893 (Stephani 1893d).
- *** *Cryptolophocolea spinifera* (Hook.f. et Taylor) L.Söderstr., Phytotaxa 112 (1): 20, 2013 (Söderström et al. 2013f). Bas.: *Jungermannia spinifera* Hook.f. et Taylor, London J. Bot. 3: 381, 1844 (Hooker and Taylor 1844a).
- * *Cryptolophocolea stephanii* (Schiffn.) L.Söderstr., Phytotaxa 112 (1): 23, 2013 (Söderström et al. 2013f). Bas.: *Lophocolea stephanii* Schiffn., Hep. Fl. Buitenzorg: 181, 1900 (Schiffner 1900a).¹⁴⁰
- *** *Cryptolophocolea subopposita* (J.J.Engel) L.Söderstr., Phytotaxa 112 (1): 23, 2013 (Söderström et al. 2013f). Bas.: *Chiloscyphus suboppositus* J.J.Engel, Phytologia 83 (1): 45, 1997 [1998] (Engel 1997).
- * *Cryptolophocolea thermarum* (Schiffn.) L.Söderstr., Phytotaxa 112 (1): 23, 2013 (Söderström et al. 2013f). Bas.: *Lophocolea thermarum* Schiffn., Hep. Fl. Buitenzorg: 180, 1900 (Schiffner 1900a).¹⁴¹

139 *Cryptolophocolea massalongoana* is possibly conspecific with *Cryptolophocolea costata* (Piippo 1985a).

140 *Cryptolophocolea stephanii* is doubtfully distinct from *Cryptolophocolea ciliolata* (Söderström et al. 2010a).

141 *Cryptolophocolea thermarum* is possibly conspecific with *Cryptolophocolea ciliolata* (Söderström et al. 2010a).

- *** *Cryptolophocolea trialata* (Gottsche) L.Söderstr., *Phytotaxa* 112 (1): 23, 2013 (Söderström et al. 2013f). Bas.: *Lophocolea trialata* Gottsche, *Linnaea* 28 (5): 552, 1856 [1857] (Gottsche 1856).
- ** *Cryptolophocolea tricolorata* (Hässel) Crand.-Stotl. et Stotler, *Phytotaxa* 112 (1): 23, 2013 (Söderström et al. 2013f). Bas.: *Chiloscyphus tricoloratus* Hässel, *Nova Hedwigia* 70 (3/4): 456, 2000 (Hässel 2000).
- *** *Cryptolophocolea tuberculata* (J.J.Engel) L.Söderstr., *Phytotaxa* 112 (1): 23, 2013 (Söderström et al. 2013f). Bas.: *Chiloscyphus tuberculatus* J.J.Engel, *Phytologia* 83 (1): 45, 1997 [1998] (Engel 1997).
- * *Cryptolophocolea whittieriana* (Inoue et H.A.Mill.) L.Söderstr., *Phytotaxa* 112 (1): 24, 2013 (Söderström et al. 2013f). Bas.: *Lophocolea whittieriana* Inoue et H.A.Mill., *Bull. Natl. Sci. Mus. Tokyo* (n.ser.) 8 (2): 143, 1965 (Inoue and Miller 1965).¹⁴²
- *** *Deceptifrons* J.J.Engel et Váňa, *Mem. New York Bot. Gard.* 105: 54, 2013 (Váňa and Engel 2013).
- *** *Deceptifrons plagiochiloides* J.J.Engel et Váňa, *Mem. New York Bot. Gard.* 105: 54, 2013 (Váňa and Engel 2013).
- *** *Evansianthus* R.M.Schust. et J.J.Engel, *Bryologist* 76 (4): 516, 1973 (Schuster and Engel 1973).
- *** *Evansianthus georgiensis* (Gottsche) R.M.Schust. et J.J.Engel, *Bryologist* 76 (4): 518, 1973 (Schuster and Engel 1973). Bas.: *Lophocolea georgiensis* Gottsche, *Int. Polarforsch., Deutsch. Exped.* 2: 453, 1890 (Gottsche 1890).
- *** *Hepatostolonophora* J.J.Engel et R.M.Schust., *J. Hattori Bot. Lab.* 46: 91, 1979 (Engel 1979b). *Nom. nov. pro Stolonophora* J.J.Engel et R.M.Schust., *Fieldiana, Bot.* 36 (11): 111, 1975 (Engel and Schuster 1975).
- *** *Hepatostolonophora abnormis* (Besch. et C.Massal.) J.J.Engel et R.M.Schust., *J. Hattori Bot. Lab.* 46: 94, 1979 (Engel 1979b). Bas.: *Leioscyphus abnormis* Besch. et C.Massal., *Bull. Mens. Soc. Linn. Paris* 1 (79): 629, 1886 (Bescherelle and Massalongo 1886).
- ** *Hepatostolonophora conica* (Steph.) Hässel, *Bol. Soc. Argent. Bot.* 22 (1/4): 123, 1983 (Hässel 1983). Bas.: *Plagiochila conica* Steph., *Kungl. Svenska Vetensk.-Akad. Handl.* (n.ser.) 46 (9): 28, 1911 (Stephani 1911b).
- *** *Hepatostolonophora paucistipula* (Rodway) J.J.Engel, *J. Hattori Bot. Lab.* 46: 103, 1979 (Engel 1979b). Bas.: *Lophocolea paucistipula* Rodway, *Pap. & Proc. Roy. Soc. Tasmania* 1916: 46, 1917 (Rodway 1917a).
- *** *Hepatostolonophora rotata* (Hook.f. et Taylor) J.J.Engel, *J. Hattori Bot. Lab.* 46: 98, 1979 (Engel 1979b). Bas.: *Jungermannia rotata* Hook.f. et Taylor, *London J. Bot.* 3: 560, 1844 (Hooker and Taylor 1844d).

¹⁴² *Cryptolophocolea whittieriana* is possibly conspecific with *Cryptolophocolea helmsiana* (Hodgson 1967).

- *** *Hepatostolonophora rotata* var. *perssonii* (R.M.Schust.) J.J.Engel, J. Hattori Bot. Lab. 46: 103, 1979 (Engel 1979b). Bas.: *Calypstrocolea perssonii* R.M.Schust., Rev. Bryol. Lichénol. 34 (3/4): 699, 1966 [1967] (Schuster 1966a).
- *** ***Heteroscyphus* Schiffn.**, Österr. Bot. Z. 60 (5): 171, 1910 (Schiffner 1910a) nom. conserv.
- ** *Heteroscyphus acutangulus* (Schiffn.) Schiffn., Österr. Bot. Z. 60 (5): 172, 1910 (Schiffner 1910a). Bas.: *Chiloscyphus acutangulus* Schiffn., Hep. Fl. Buitenzorg: 200, 1900 (Schiffner 1900a).
- ** *Heteroscyphus allodontus* (Hook.f. et Taylor) J.J.Engel et R.M.Schust., Nova Hedwigia 39: 399, 1984 [1985] (Engel and Schuster 1984). Bas.: *Jungermannia alldonta* Hook.f. et Taylor, London J. Bot. 3: 382, 1844 (Hooker and Taylor 1844a).
- ** *Heteroscyphus amboinensis* (Schiffn.) Schiffn., Österr. Bot. Z. 60 (5): 172, 1910 (Schiffner 1910a). Bas.: *Chiloscyphus endlicherianus* var. *amboinensis* Schiffn., Leberm., Forschungsr. Gazelle 4 (4): 15, 1890 (Schiffner 1890).
- ** *Heteroscyphus ammophilus* (Colenso) R.M.Schust., Hepat. Anthocerotae N. Amer. 4: 248, 1980 (Schuster 1980c). Bas.: *Chiloscyphus ammophilus* Colenso, Trans. & Proc. New Zealand Inst. 21: 59, 1889 (Colenso 1889).
- ** *Heteroscyphus ammophilus* var. *obtusifolius* J.J.Engel et G.L.Merr., Nova Hedwigia 99 (1/2): 158, 2014 (Engel 2014).
- *** *Heteroscyphus argutus* (Reinw., Blume et Nees) Schiffn., Österr. Bot. Z. 60 (5): 172, 1910 (Schiffner 1910a). Bas.: *Jungermannia arguta* Reinw., Blume et Nees, Nova Acta Phys.-Med. Acad. Caes. Leop.-Carol. Nat. Cur. 12 (1): 206, 1824 [1825] (Reinwardt et al. 1824a).
- ** *Heteroscyphus argutus* var. *brevidens* (Schiffn.) Herzog et Nog., J. Hattori Bot. Lab. 14: 40, 1955 (Herzog and Noguchi 1955). Bas.: *Chiloscyphus argutus* var. *brevidens* Schiffn., Hep. Fl. Buitenzorg: 195, 1900 (Schiffner 1900a).
- *** *Heteroscyphus aselliformis* (Reinw., Blume et Nees) Schiffn., Österr. Bot. Z. 60 (5): 172, 1910 (Schiffner 1910a). Bas.: *Jungermannia aselliformis* Reinw., Blume et Nees, Nova Acta Phys.-Med. Acad. Caes. Leop.-Carol. Nat. Cur. 12 (1): 412, 1824 [1825] (Reinwardt et al. 1824b).
- ** *Heteroscyphus assurgentifolius* J.J.Engel, Nova Hedwigia 99 (1/2): 158, 2014 (Engel 2014).
- ** *Heteroscyphus baduinus* (Nees) Schiffn., Österr. Bot. Z. 60 (5): 171, 1910 (Schiffner 1910a). Bas.: *Jungermannia baduina* Nees, Enum. Pl. Crypt. Javae: 26, 1830 (Nees 1830).
- ** *Heteroscyphus balnetii* (Herzog) Grolle, Acta Bot. Fenn. 125: 68, 1984 (Grolle and Piippo 1984). Bas.: *Chiloscyphus balnetii* Herzog, Ann. Bryol. 5: 89, 1932 (Herzog 1932a).
- *** *Heteroscyphus billardierei* (Schwägr.) Schiffn., Österr. Bot. Z. 60 (5): 172, 1910 (Schiffner 1910a). Bas.: *Jungermannia billardierei* Schwägr., Hist. Musc. Hepat. Prodr.: 19, 1814 (Schwägrichen 1814).
- ** *Heteroscyphus billardierei* var. *clasmatocoleoides* (J.J.Engel et G.L.Merr.) J.J.Engel, Nova Hedwigia 100 (3/4): 565, 2015 (Engel 2015a). Bas.: *Heteroscyphus circum-*

- dentatus* var. *clasmatocoleoides* J.J.Engel et G.L.Merr., Polish Bot. J. 58 (1): 95, 2013 (Engel 2013b).
- ** *Heteroscyphus brassii* (Grolle) Grolle, Acta Bot. Fenn. 125: 68, 1984 (Grolle and Piippo 1984). Bas.: *Chiloscyphus brassii* Grolle, J. Hattori Bot. Lab. 31: 2, 1968 (Grolle 1968a).
- * *Heteroscyphus caesius* (Schiffn.) Schiffn., Österr. Bot. Z. 60 (5): 172, 1910 (Schiffner 1910a). Bas.: *Chiloscyphus caesius* Schiffn., Hep. Fl. Buitenzorg: 207, 1900 (Schiffner 1900a).¹⁴³
- * *Heteroscyphus caledonicus* (Steph.) Schiffn., Österr. Bot. Z. 60 (5): 172, 1910 (Schiffner 1910a). Bas.: *Chiloscyphus caledonicus* Steph., Bull. Herb. Boissier (sér. 2) 7 (10): 844 (216), 1907 (Stephani 1907b).¹⁴⁴
- ** *Heteroscyphus chlorophyllus* (Hook.f. et Taylor) Schiffn., Österr. Bot. Z. 60 (5): 172, 1910 (Schiffner 1910a). Bas.: *Jungermannia chlorophylla* Hook.f. et Taylor, London J. Bot. 3: 562, 1844 (Hooker and Taylor 1844d).
- ** *Heteroscyphus ciliatus* (Steph.) Schiffn., Österr. Bot. Z. 60 (5): 172, 1910 (Schiffner 1910a). Bas.: *Chiloscyphus ciliatus* Steph., Hedwigia 32 (5): 320, 1893 (Stephani 1893d).
- *** *Heteroscyphus coalitus* (Hook.) Schiffn., Österr. Bot. Z. 60 (5): 172, 1910 (Schiffner 1910a). Bas.: *Jungermannia coalita* Hook., Musci Exot. 2: tab. 123, 1820 (Hooker 1820).
- ** *Heteroscyphus coalitus* var. *simplicifolius* J.J.Engel, Nova Hedwigia 100 (3/4): 572, 2015 (Engel 2015a).
- ** *Heteroscyphus combinatus* (Nees) Schiffn., Österr. Bot. Z. 60 (5): 172, 1910 (Schiffner 1910a). Bas.: *Jungermannia combinata* Nees, Enum. Pl. Crypt. Javae: 22, 1830 (Nees 1830).
- *** *Heteroscyphus conjugatus* (Mitt.) J.J.Engel et R.M.Schust., Nova Hedwigia 39: 399, 1984 [1985] (Engel and Schuster 1984). Bas.: *Chiloscyphus conjugatus* Mitt., Bot. antarct. voy. III (Fl. Tasman. 2): 227, 1860 (Mitten 1860b).
- *** *Heteroscyphus contortuplicatus* (Nees et Mont.) Grolle, J. Hattori Bot. Lab. 55: 504, 1984 (Grolle 1984a). Bas.: *Jungermannia contortuplicata* Nees et Mont., Ann. Sci. Nat. Bot. (sér. 2) 5: 54, 1836 (Nees and Montagne 1836).
- *** *Heteroscyphus cuneistipulus* (Steph.) Schiffn., Österr. Bot. Z. 60 (5): 172, 1910 (Schiffner 1910a). Bas.: *Chiloscyphus cuneistipulus* Steph., Hedwigia 32 (5): 322, 1893 (Stephani 1893d).
- ** *Heteroscyphus darjeelingensis* A.Srivast. et S.C.Srivast., Indian Geocalyc.: 115, 2002 (Srivastava and Srivastava 2002).
- ** *Heteroscyphus deceptifrons* J.J.Engel, Nova Hedwigia 99 (1/2): 162, 2014 (Engel 2014).
- *** *Heteroscyphus dentammophilus* J.J.Engel et G.L.Merr., Polish Bot. J. 58 (1): 96, 2013 (Engel 2013b).

143 *Heteroscyphus caesius* is possibly conspecific with *Heteroscyphus splendens* (Söderström et al. 2010a).

144 *Heteroscyphus caledonicus* is possibly conspecific with *Heteroscyphus amboinensis* Miller et al. (1983) with a question mark.

- ** *Heteroscyphus denticulatus* (Mitt.) Schiffn., Beih. Bot. Centralbl. 29: 106, 1912 (Schiffner 1912c). Bas.: *Chiloscyphus denticulatus* Mitt., Nat. hist. Azores: 320, 1870 (Mitten 1870).
- ** *Heteroscyphus deplanchei* (Steph.) Schiffn., Österr. Bot. Z. 60 (5): 172, 1910 (Schiffner 1910a). Bas.: *Chiloscyphus deplanchei* Steph., Bull. Herb. Boissier (sér. 2) 7 (8): 693 (203), 1907 (Stephani 1907e).
- ** *Heteroscyphus diestianus* (Sande Lac.) Piippo, Acta Bot. Fenn. 131: 165, 1985 (Piippo 1985a). Bas.: *Chiloscyphus diestianus* Sande Lac., Ann. Mus. Bot. Lugduno-Batavi 1: 296, 1864 (Sande Lacoste 1864).
- ** *Heteroscyphus divergenticiliatus* (Steph.) Fulford, Mem. New York Bot. Gard. 11 (4): 501, 1976 (Fulford 1976). Bas.: *Lophocolea divergenticiliata* Steph., Bih. Kongl. Svenska Vetensk.-Akad. Handl. 26 (III, 6): 38, 1900 (Stephani 1900b).
- ** *Heteroscyphus dubius* (Gottsche) Schiffn., Österr. Bot. Z. 60 (5): 172, 1910 (Schiffner 1910a). Bas.: *Chiloscyphus dubius* Gottsche, Abh. Naturwiss. Vereins Bremen 7: 346, 1882 (Gottsche 1882).
- *** *Heteroscyphus echinellus* (Lindenb. et Gottsche) J.J.Engel et Xiao L.He, Bryologist 113 (1): 155, 2010 (Engel and He 2010). Bas.: *Lophocolea echinella* Lindenb. et Gottsche, Syn. Hepat. 5: 703, 1847 (Gottsche et al. 1847).
- ** *Heteroscyphus echinellus* var. *hyalinus* J.J.Engel, Bryologist 113 (1): 161, 2010 (Engel and He 2010).
- ** *Heteroscyphus elliottii* (Steph.) Pagán, Bryologist 42 (1): 7, 1939 (Pagán 1939a). Bas.: *Chiloscyphus elliottii* Steph., Bull. Herb. Boissier (sér. 2) 8 (1): 55 (231), 1908 (Stephani 1908k).
- * *Heteroscyphus elliottii* var. *portoricensis* Fulford, Mem. New York Bot. Gard. 11 (4): 489, 1976 (Fulford 1976).
- * *Heteroscyphus falcifolius* (Steph.) Schiffn., Österr. Bot. Z. 60 (5): 172, 1910 (Schiffner 1910a). Bas.: *Chiloscyphus falcifolius* Steph., Bull. Herb. Boissier (sér. 2) 7 (8): 698 (208), 1907 (Stephani 1907e).
- *** *Heteroscyphus fissistipus* (Hook.f. et Taylor) Schiffn., Österr. Bot. Z. 60 (5): 172, 1910 (Schiffner 1910a). Bas.: *Jungermannia fissistipa* Hook.f. et Taylor, London J. Bot. 3: 384, 1844 (Hooker and Taylor 1844a).
- ** *Heteroscyphus fissistipus* var. *multispinus* (E.A.Hodgs. et Allison) J.J.Engel, Nova Hedwigia 99 (1/2): 165, 2014 (Engel 2014). Bas.: *Chiloscyphus multispinus* E.A.Hodgs. et Allison, Trans. & Proc. Roy. Soc. New Zealand 73 (1): 37, 1943 (Hodgson 1943).
- ** *Heteroscyphus fissistipus* var. *repandus* J.J.Engel, Nova Hedwigia 99 (1/2): 165, 2014 (Engel 2014).
- ** *Heteroscyphus flaccidus* (Mitt.) A.Srivast. et S.C.Srivast., Indian Geocalyc.: 85, 2002 (Srivastava and Srivastava 2002). Bas.: *Lophocolea flaccida* Mitt., J. Proc. Linn. Soc., Bot. 5 (18): 99, 1860 [1861] (Mitten 1860c).
- ** *Heteroscyphus fleischeri* (Steph.) D.G.Long et Rubas., Ceylon J. Sci., Biol. Sci. 43 (1): 26, 2014 (Long and Rubasinghe 2014). Bas.: *Chiloscyphus fleischeri* Steph., Sp. Hepat. (Stephani) 6: 306, 1922 (Stephani 1922).

- * *Heteroscyphus fragilicilius* (Schiffn.) Schiffn., Österr. Bot. Z. 60 (5): 172, 1910 (Schiffner 1910a). Bas.: *Chiloscyphus fragilicilius* Schiffn., Denkschr. Kaiserl. Akad. Wiss., Math.-Naturwiss. Kl. 70: 210, 1900 [1901] (Schiffner 1900c).
- ** *Heteroscyphus furcistipulus* (E.A.Hodgs.) J.J.Engel et R.M.Schust., Nova Hedwigia 39: 400, 1984 [1985] (Engel and Schuster 1984). Bas.: *Chiloscyphus furcistipulus* E.A.Hodgs., Trans. Roy. Soc. New Zealand, Bot. 3 (4): 79, 1965 (Hodgson 1965).
- ** *Heteroscyphus giganteus* (Steph.) Hürl., Bauhinia 12 (1/2): 114, 1998 (Hürlimann 1998). Bas.: *Chiloscyphus giganteus* Steph., Sp. Hepat. (Stephani) 6: 307, 1922 (Stephani 1922).
- ** *Heteroscyphus graeffei* (J.B.Jack et Steph.) Grolle, Wiss. Z. Friedrich-Schiller-Univ. Jena, Math.-Naturwiss. Reihe 29 (4): 645, 1980 (Grolle 1980d). Bas.: *Lophocolea graeffei* J.B.Jack et Steph., Bot. Centralbl. 60 (4): 101, 1894 (Jack and Stephani 1894).
- ** *Heteroscyphus grandiflorus* (Steph.) Hürl., Bauhinia 12 (1/2): 114, 1998 (Hürlimann 1998). Bas.: *Chiloscyphus grandiflorus* Steph., Sp. Hepat. (Stephani) 6: 307, 1922 (Stephani 1922).
- ** *Heteroscyphus grandistipus* (Steph.) Schiffn., Österr. Bot. Z. 60 (5): 172, 1910 (Schiffner 1910a). Bas.: *Chiloscyphus grandistipus* Steph., Bot. Gaz. 15 (11): 283, 1890 (Stephani 1890c).
- ** *Heteroscyphus gunnianus* (Mitt.) J.J.Engel et R.M.Schust., Nova Hedwigia 39: 400, 1984 [1985] (Engel and Schuster 1984). Bas.: *Chiloscyphus gunnianus* Mitt., Bot. antarct. voy. III (Fl. Tasman. 2): 228, 1860 (Mitten 1860b).
- ** *Heteroscyphus hastatus* (E.A.Hodgs.) J.J.Engel et R.M.Schust., Nova Hedwigia 39: 400, 1984 [1985] (Engel and Schuster 1984). Bas.: *Chiloscyphus hastatus* E.A.Hodgs., Trans. Roy. Soc. New Zealand, Bot. 3 (11): 181, 1967 (Hodgson 1967).
- ** *Heteroscyphus hebridensis* (Steph.) Schiffn., Österr. Bot. Z. 60 (5): 172, 1910 (Schiffner 1910a). Bas.: *Chiloscyphus hebridensis* Steph., Hedwigia 32 (5): 323, 1893 (Stephani 1893d).
- ** *Heteroscyphus heterophyllus* (Steph.) J.J.Engel et R.M.Schust., Nova Hedwigia 39: 400, 1984 [1985] (Engel and Schuster 1984). Bas.: *Chiloscyphus heterophyllus* Steph., Sp. Hepat. (Stephani) 6: 308, 1922 (Stephani 1922).
- ** *Heteroscyphus hyalinus* (Steph.) A.Srivast. et S.C.Srivast., Indian Geocalyc.: 118, 2002 (Srivastava and Srivastava 2002). Bas.: *Lophocolea hyalina* Steph., Bull. Soc. Roy. Bot. Belgique 38 (1): 46, 1899 (Stephani 1899h).
- *** *Heteroscyphus integrifolius* (Lehm. et Lindenb.) Fulford, Mem. New York Bot. Gard. 11 (4): 495, 1976 (Fulford 1976). Bas.: *Jungermannia integrifolia* Lehm. et Lindenb., Nov. Stirp. Pug. 6: 32, 1834 (Lehmann 1834).
- ** *Heteroscyphus iwatsukii* (S.Hatt.) Piippo, Willdenowia 18 (2): 522, 1989 (Piippo 1989a). Bas.: *Saccogynidium iwatsukii* S.Hatt., J. Jap. Bot. 39 (7): 206, 1964 (Hattori 1964).
- ** *Heteroscyphus jackii* (Steph.) Schiffn., Österr. Bot. Z. 60 (5): 172, 1910 (Schiffner 1910a). Bas.: *Chiloscyphus jackii* Steph., Bot. Centralbl. 60 (4): 102, 1894 (Jack and Stephani 1894).

- *** *Heteroscyphus knightii* (Steph.) Grolle, J. Hattori Bot. Lab. 61: 251, 1986 [1987] (Grolle 1986a). Bas.: *Chiloscyphus knightii* Steph., Bull. Herb. Boissier (sér. 2) 8 (2): 129 (245), 1908 (Stephani 1908i).
- ** *Heteroscyphus levieri* (Steph.) Schiffn., Österr. Bot. Z. 60 (5): 172, 1910 (Schiffner 1910a). Bas.: *Chiloscyphus levieri* Steph., Bull. Herb. Boissier (sér. 2) 8 (2): 132 (248), 1908 (Stephani 1908i).
- ** *Heteroscyphus limosus* (Carrington et Pearson) Schiffn., Österr. Bot. Z. 60 (5): 172, 1910 (Schiffner 1910a). Bas.: *Chiloscyphus limosus* Carrington et Pearson, Pap. & Proc. Roy. Soc. Tasmania 1887: 6, 1888 (Carrington and Pearson 1888b).
- ** *Heteroscyphus lingulatus* (Colenso) J.J.Engel et R.M.Schust., Nova Hedwigia 39: 400, 1984 [1985] (Engel and Schuster 1984). Bas.: *Chiloscyphus lingulatus* Colenso, Trans. & Proc. New Zealand Inst. 21: 61, 1889 (Colenso 1889).
- ** *Heteroscyphus lophocoleoides* S.Hatt., Bull. Tokyo Sci. Mus. 11: 45, 1944 (Hattori 1944d).
- *** *Heteroscyphus lyallii* (Mitt.) R.M.Schust., Hepat. Anthocerotae N. Amer. 4: 248, 1980 (Schuster 1980c). Bas.: *Chiloscyphus lyallii* Mitt., Bot. antarct. voy. II (Fl. Nov.-Zel. 2): 140, 1854 (Mitten 1854).
- *** *Heteroscyphus magellanicus* (Steph.) J.J.Engel et R.M.Schust., Nova Hedwigia 39: 400, 1984 [1985] (Engel and Schuster 1984). Bas.: *Chiloscyphus magellanicus* Steph., Bull. Herb. Boissier (sér. 2) 8 (2): 140 (256), 1908 (Stephani 1908i).
- ** *Heteroscyphus mamillatus* Piippo, Nova Hedwigia 56 (3/4): 360, 1993 (Piippo 1993a).
- ** *Heteroscyphus marginatus* (Steph.) Fulford, Mem. New York Bot. Gard. 11 (4): 491, 1976 (Fulford 1976). Bas.: *Lophocolea marginata* Steph., Sp. Hepat. (Stephani) 6: 282, 1922 (Stephani 1922).
- *** *Heteroscyphus menziesii* (Mitt.) J.J.Engel, Polish Bot. J. 58 (1): 99, 2013 (Engel 2013b). Bas.: *Chiloscyphus menziesii* Mitt., Bot. antarct. voy. II (Fl. Nov.-Zel. 2): 139, 1854 (Mitten 1854).
- ** *Heteroscyphus merapiensis* (Steph.) Piippo, Ann. Bot. Fenn. 30 (3): 200, 1993 (Piippo 1993c). Bas.: *Chiloscyphus merapiensis* Steph., Sp. Hepat. (Stephani) 6: 311, 1922 (Stephani 1922).
- ** *Heteroscyphus miradorensis* (Steph.) Schiffn., Österr. Bot. Z. 60 (5): 172, 1910 (Schiffner 1910a). Bas.: *Chiloscyphus miradorensis* Steph., Bull. Herb. Boissier (sér. 2) 8 (1): 56 (232), 1908 (Stephani 1908k).
- *** *Heteroscyphus mononucleus* J.J.Engel, J. Hattori Bot. Lab. 90: 241, 2001 (Engel 2001).
- ** *Heteroscyphus mononucleus* var. *ammophilopsis* J.J.Engel, Nova Hedwigia 99 (1/2): 166, 2014 (Engel 2014).
- ** *Heteroscyphus mononucleus* var. *bilobus* J.J.Engel, Nova Hedwigia 99 (1/2): 167, 2014 (Engel 2014).
- ** *Heteroscyphus montagnei* (Steph.) Fulford, Mem. New York Bot. Gard. 11 (4): 497, 1976 (Fulford 1976). Bas.: *Chiloscyphus montagnei* Steph., Bull. Herb. Boissier (sér. 2) 8 (2): 141 (257), 1908 (Stephani 1908i).

- ** *Heteroscyphus multifidus* (Steph.) J.J.Engel et R.M.Schust., *Nova Hedwigia* 39: 400, 1984 [1985] (Engel and Schuster 1984). Bas.: *Chiloscyphus multifidus* Steph., *Bull. Herb. Boissier (sér. 2)* 8 (2): 132 (248), 1908 (Stephani 1908i).
- ** *Heteroscyphus multifidus* var. *subintegerrimus* J.J.Engel, *Nova Hedwigia* 100 (3/4): 562, 2015 (Engel 2015a).
- ** *Heteroscyphus nadeaudii* (Steph.) Schiffn., *Österr. Bot. Z.* 60 (5): 172, 1910 (Schiffner 1910a). Bas.: *Chiloscyphus nadeaudii* Steph., *Bull. Herb. Boissier (sér. 2)* 7 (10): 848 (220), 1907 (Stephani 1907b).
- ** *Heteroscyphus orbiculatus* A.Srivast. et S.C.Srivast., *Indian Geocalyc.*: 140, 2002 (Srivastava and Srivastava 2002).
- ** *Heteroscyphus palniensis* A.Srivast. et S.C.Srivast., *Indian Geocalyc.*: 130, 2002 (Srivastava and Srivastava 2002).
- ** *Heteroscyphus pandei* S.C.Srivast. et A.Srivast., *Lindbergia* 15 (6): 197, 1989 [1991] (Srivastava and Srivastava 1989b).
- *** *Heteroscyphus parallelifolius* J.J.Engel, *Polish Bot. J.* 58 (1): 99, 2013 (Engel 2013b).
- ** *Heteroscyphus parvulus* (Schiffn.) Schiffn., *Österr. Bot. Z.* 60 (5): 171, 1910 (Schiffner 1910a). Bas.: *Chiloscyphus parvulus* Schiffn., *Hep. Fl. Buitenzorg*: 206, 1900 (Schiffner 1900a).
- ** *Heteroscyphus parvus* A.Srivast. et S.C.Srivast., *Indian Geocalyc.*: 112, 2002 (Srivastava and Srivastava 2002).
- ** *Heteroscyphus perfoliatus* (Mont.) Schiffn., *Österr. Bot. Z.* 60 (5): 171, 1910 (Schiffner 1910a). Bas.: *Lophocolea perfoliata* Mont., *Ann. Sci. Nat. Bot. (sér. 2)* 18: 12, 1842 (Montagne 1842b).
- ** *Heteroscyphus pertusus* (Lehm.) Fulford, *Mem. New York Bot. Gard.* 11 (4): 505, 1976 (Fulford 1976). Bas.: *Chiloscyphus pertusus* Lehm., *Nov. Stirp. Pug.* 10: 7, 1857 (Lehmann 1857).
- *** *Heteroscyphus planiusculus* (Hook.f. et Taylor) J.J.Engel, *J. Hattori Bot. Lab.* 68: 315, 1990 (Engel 1990a). Bas.: *Jungermannia planiuscula* Hook.f. et Taylor, *London J. Bot.* 3: 382, 1844 (Hooker and Taylor 1844a).
- ** *Heteroscyphus planus* (Mitt.) Schiffn., *Österr. Bot. Z.* 60 (5): 171, 1910 (Schiffner 1910a). Bas.: *Chiloscyphus planus* Mitt., *J. Linn. Soc., Bot.* 8 (31): 157, 1864 [1865] (Mitten 1864a).
- *** *Heteroscyphus polyblepharis* (Spruce) Schiffn., *Österr. Bot. Z.* 60 (5): 172, 1910 (Schiffner 1910a). Bas.: *Chiloscyphus polyblepharis* Spruce, *Trans. & Proc. Bot. Soc. Edinburgh* 15: 442, 1885 (Spruce 1885).
- *** *Heteroscyphus polychaetus* (Spruce) Hentschel et Heinrichs, *Taxon* 56 (4): 1139, 2007 (Hentschel et al. 2007c). Bas.: *Lophocolea polychaeta* Spruce, *Trans. & Proc. Bot. Soc. Edinburgh* 15: 436, 1885 (Spruce 1885).
- ** *Heteroscyphus polycladus* (Hook.f. et Lév.) R.M.Schust., *Hepat. Anthocerotae N. Amer.* 4: 248, 1980 (Schuster 1980c). Bas.: *Jungermannia polyclada* Hook.f. et Lév., *Choix Pl. Nouv.-Zel.*: 8, 1846 (Raoul 1846).

- ** *Heteroscyphus rectangulatus* (Herzog) Piippo, Ann. Bot. Fenn. 30 (3): 200, 1993 (Piippo 1993c). Bas.: *Chiloscyphus rectangulatus* Herzog, Ann. Naturhist. Mus. Wien 53 (1): 364, 1942 [1943] (Herzog 1942b).
- ** *Heteroscyphus saccogynoides* Herzog, J. Hattori Bot. Lab. 14: 40, 1955 (Herzog and Noguchi 1955).
- ** *Heteroscyphus sarawaketanus* Piippo, Acta Bot. Fenn. 131: 143, 1985 (Piippo 1985a).
- *** *Heteroscyphus sinuosus* (Hook.) Schiffn., Österr. Bot. Z. 60 (5): 172, 1910 (Schiffner 1910a). Bas.: *Jungermannia sinuosa* Hook., Musci Exot. 2: tab. 113, 1820 (Hooker 1820).
- ** *Heteroscyphus spectabilis* (Steph.) Schiffn., Österr. Bot. Z. 60 (5): 172, 1910 (Schiffner 1910a). Bas.: *Chiloscyphus spectabilis* Steph., Hedwigia 30 (5): 205, 1891 (Stephani 1891a).
- ** *Heteroscyphus spinifer* C.Gao, T.Cao et Y.H.Wu, J. Bryol. 26 (2): 97, 2004 (Gao et al. 2004).
- *** *Heteroscyphus splendens* (Lehm. et Lindenb.) Grolle, Acta Bot. Fenn. 125: 68, 1984 (Grolle and Piippo 1984). Bas.: *Jungermannia splendens* Lehm. et Lindenb., Nov. Stirp. Pug. 4: 22, 1832 (Lehmann 1832).
- ** *Heteroscyphus splendidus* (E.A.Hodgs.) J.J.Engel et R.M.Schust., Nova Hedwigia 39: 400, 1984 [1985] (Engel and Schuster 1984). Bas.: *Chiloscyphus splendidus* E.A.Hodgs., Trans. Roy. Soc. New Zealand, Bot. 3 (11): 180, 1967 (Hodgson 1967).
- *** *Heteroscyphus stolonifer* J.J.Engel, Polish Bot. J. 58 (1): 102, 2013 (Engel 2013b).
- *** *Heteroscyphus succulentus* (Gottsche) Schiffn., Österr. Bot. Z. 60 (5): 171, 1910 (Schiffner 1910a). Bas.: *Chiloscyphus succulentus* Gottsche, Natuurk. Tijdschr. Ned.-Indië 4: 576, 1853 (Gottsche 1853).
- ** *Heteroscyphus supinus* (Hook.f. et Taylor) R.M.Schust., Hepat. Anthocerotae N. Amer. 4: 248, 1980 (Schuster 1980c). Bas.: *Chiloscyphus supinus* Hook.f. et Taylor, London J. Bot. 5: 284, 1846 (Taylor 1846a).
- ** *Heteroscyphus tener* (Steph.) Schiffn., Österr. Bot. Z. 60 (5): 172, 1910 (Schiffner 1910a). Bas.: *Chiloscyphus tener* Steph., Bull. Herb. Boissier (sér. 2) 7 (8): 695 (205), 1907 (Stephani 1907e).
- *** *Heteroscyphus thraustus* (Spruce) Fulford, Mem. New York Bot. Gard. 11 (4): 495, 1976 (Fulford 1976). Bas.: *Lophocolea thrausta* Spruce, Trans. & Proc. Bot. Soc. Edinburgh 15: 437, 1885 (Spruce 1885).
- ** *Heteroscyphus timppae* Piippo, Ann. Bot. Fenn. 29 (3): 246, 1992 (Piippo 1992).
- *** *Heteroscyphus triacanthus* (Hook.f. et Lév.) Schiffn., Österr. Bot. Z. 60 (5): 172, 1910 (Schiffner 1910a). Bas.: *Jungermannia triacantha* Hook.f. et Lév., Choix Pl. Nouv.-Zel.: 8, 1846 (Raoul 1846).
- ** *Heteroscyphus triacanthus* var. *magnistipulatus* J.J.Engel, Nova Hedwigia 99 (1/2): 167, 2014 (Engel 2014).
- ** *Heteroscyphus tridentatus* (Sande Lac.) Grolle, Acta Bot. Fenn. 125: 68, 1984 (Grolle and Piippo 1984). Bas.: *Lophocolea tridentata* Sande Lac., Ann. Mus. Bot. Lugduno-Batavi 1: 296, 1864 (Sande Lacoste 1864).

- ** *Heteroscyphus turgidus* (Schiffn.) Schiffn., Österr. Bot. Z. 60 (5): 171, 1910 (Schiffner 1910a). Bas.: *Chiloscyphus turgidus* Schiffn., Denkschr. Kaiserl. Akad. Wiss., Math.-Naturwiss. Kl. 70: 212, 1900 [1901] (Schiffner 1900c).
- *** *Heteroscyphus valdiviensis* (Mont.) Schiffn., Österr. Bot. Z. 60 (5): 172, 1910 (Schiffner 1910a). Bas.: *Chiloscyphus valdiviensis* Mont., Ann. Sci. Nat. Bot. (sér. 3) 4: 351, 1845 (Montagne 1845b).
- ** *Heteroscyphus varians* (Steph.) J.J.Engel, J. Hattori Bot. Lab. 68: 315, 1990 (Engel 1990a). Bas.: *Lophocolea varians* Steph., J. & Proc. Roy. Soc. New South Wales 48 (1/2): 119, 1914 (Stephani and Watts 1914).
- ** *Heteroscyphus wettsteinii* (Schiffn.) Schiffn., Österr. Bot. Z. 60 (5): 172, 1910 (Schiffner 1910a). Bas.: *Chiloscyphus wettsteinii* Schiffn., Hep. Fl. Buitenzorg: 202, 1900 (Schiffner 1900a).
- ** *Heteroscyphus zollingeri* (Gottsche) Schiffn., Österr. Bot. Z. 60 (5): 171, 1910 (Schiffner 1910a). Bas.: *Chiloscyphus zollingeri* Gottsche, Natuurk. Tijdschr. Ned.-Indië 4: 576, 1853 (Gottsche 1853).
- *** ***Lamellocolea* J.J.Engel**, J. Hattori Bot. Lab. 70: 65, 1991 (Engel 1991c).
- *** *Lamellocolea granditexta* (Steph.) J.J.Engel, J. Hattori Bot. Lab. 70: 66, 1991 (Engel 1991c). Bas.: *Lophocolea granditexta* Steph., Bull. Herb. Boissier (sér. 2) 6 (10): 881 (106), 1906 (Stephani 1906d).
- *** *Lamellocolea integrostia* J.J.Engel et Glenný, Bryologist 114 (1): 23, 2011 (Engel and Glenný 2011).
- *** ***Leptophyllopsis* R.M.Schust.**, J. Hattori Bot. Lab. 26: 269, 1963 (Schuster 1963b).
- *** *Leptophyllopsis laxa* (Mitt.) R.M.Schust. ex Hamlin, Rec. Domin. Mus. 7: 284, 1972 (Hamlin 1972). Bas.: *Chiloscyphus laxus* Mitt., Bot. antarct. voy. II (Fl. Nov.-Zel. 2): 142, 1854 (Mitten 1854).
- *** ***Leptoscyphopsis* R.M.Schust.**, Phytologia 39 (4): 246, 1978 (Schuster 1978a).
- *** *Leptoscyphopsis paradoxa* R.M.Schust., Phytologia 39 (4): 246, 1978 (Schuster 1978a).
- *** ***Leptoscyphus* Mitt.**, Hooker's J. Bot. Kew Gard. Misc. 3: 358, 1851 (Mitten 1851).¹⁴⁵
- ** **subg. *Anomylia* (R.M.Schust.) R.M.Schust.**, Hepat. Anthocerotae N. Amer. 4: 272, 1980 (Schuster 1980c). Bas.: *Anomylia* R.M.Schust., Amer. Midl. Naturalist 62 (1): 51, 1959 (Schuster 1959a).
- *** *Leptoscyphus cuneifolius* (Hook.) Mitt., Hooker's J. Bot. Kew Gard. Misc. 3: 358, 1851 (Mitten 1851). Bas.: *Jungermannia cuneifolia* Hook., Brit. Jungermann.: tab. 64, 1814 (Hooker 1814).

¹⁴⁵ The subdivision of *Leptoscyphus* follows Vanderpoorten et al. (2010).

- ** *Leptoscyphus cuneifolius* subsp. *fragilis* (J.B.Jack et Steph.) Grolle, Nova Acta Leop. (n.ser.) 25 (161): 28, 1962 [1963] (Grolle 1962a). Bas.: *Leioscyphus fragilis* J.B.Jack et Steph., Hedwigia 31 (1): 20, 1892 (Jack and Stephani 1892).
- ** **subg. *Austroleptoscyphus* Vanderp., Schäf.-Verw. et D.G.Long**, Taxon 59 (1): 183, 2010 (Vanderpoorten et al. 2010).
- *** *Leptoscyphus antarcticus* (C.Massal.) Solari, Cryptog. Bryol. Lichénol. 7 (3): 219, 1986 (Solari 1986). Bas.: *Leioscyphus antarcticus* C.Massal., Atti Reale Ist. Veneto Sci. Lett. Arti 87 (2): 229, 1928 (Massalongo 1928).
- *** *Leptoscyphus australis* (Gottsche, Lindenb. et Nees) R.M.Schust., J. Hattori Bot. Lab. 26: 270, 1963 (Schuster 1963b). Bas.: *Chiloscyphus australis* Gottsche, Lindenb. et Nees, Syn. Hepat. 2: 189, 1845 (Gottsche et al. 1845a).
- *** *Leptoscyphus belmoranus* (Steph.) J.J.Engel, J. Hattori Bot. Lab. 74: 33, 1993 (Engel 1993). Bas.: *Lophocolea belmorana* Steph., J. & Proc. Roy. Soc. New South Wales 48 (1/2): 117, 1914 (Stephani and Watts 1914).
- *** *Leptoscyphus excipulatus* (Steph.) J.J.Engel, J. Hattori Bot. Lab. 74: 33, 1993 (Engel 1993). Bas.: *Lophocolea excipulata* Steph., Bull. Herb. Boissier (sér. 2) 6 (9): 790 (90), 1906 (Stephani 1906e).
- *** *Leptoscyphus innovatus* (E.A.Hodgs.) J.J.Engel, J. Hattori Bot. Lab. 74: 33, 1993 (Engel 1993). Bas.: *Lophocolea innovata* E.A.Hodgs., Trans. Roy. Soc. New Zealand 80 (3/4): 347, 1952 [1953] (Hodgson 1952).
- *** *Leptoscyphus longistipulus* (Steph.) J.J.Engel, Bryologist 94 (4): 436, 1991 (Engel 1991b). Bas.: *Lophocolea longistipula* Steph., Bull. Herb. Boissier (sér. 2) 6 (10): 884 (109), 1906 (Stephani 1906d).
- ** **subg. *Leptoscyphus***
- ** **sect. *Hexagonistipa* Grolle**, Nova Acta Leop. (n.ser.) 25 (161): 46, 1962 (Grolle 1962a).
- *** *Leptoscyphus gibbosus* (Taylor) Mitt., Hooker's J. Bot. Kew Gard. Misc. 3: 358, 1851 (Mitten 1851). Bas.: *Chiloscyphus gibbosus* Taylor, London J. Bot. 5: 283, 1846 (Taylor 1846a).
- *** *Leptoscyphus gradsteinii* Vanderp., Schäf.-Verw. et D.G.Long, Taxon 59 (1): 182, 2010 (Vanderpoorten et al. 2010).
- *** *Leptoscyphus hexagonus* (Nees) Grolle, Nova Acta Leop. (n.ser.) 25 (161): 47, 1962 [1963] (Grolle 1962a). Bas.: *Chiloscyphus hexagonus* Nees, Syn. Hepat. 2: 177, 1845 (Gottsche et al. 1845a).
- *** *Leptoscyphus jackii* (Steph.) Grolle, Nova Acta Leop. (n.ser.) 25 (161): 48, 1962 [1963] (Grolle 1962a). Bas.: *Leioscyphus jackii* Steph., Hedwigia 31 (1): 21, 1892 (Jack and Stephani 1892).
- *** *Leptoscyphus physocalyx* (Hampe et Gottsche) Gottsche, Bot. Zeitung (Berlin) Beil. 16: 33, 1858 (Gottsche 1858). Bas.: *Jungermannia physocalyx* Hampe et Gottsche, Linnaea 20 (3): 326, 1847 (Hampe 1847).

*** *Leptoscyphus sotiauxii* Vanderp., Schäf.-Verw. et D.G.Long, *Taxon* 59 (1): 183, 2010 (Vanderpoorten et al. 2010).

** **sect. *Leptoscyphus***

*** *Leptoscyphus aequatus* (Hook.f. et Taylor) Mitt., *Hooker's J. Bot. Kew Gard. Misc.* 3: 358, 1851 (Mitten 1851). Bas.: *Jungermannia aequata* Hook.f. et Taylor, *London J. Bot.* 3: 465, 1844 (Hooker and Taylor 1844b).

*** *Leptoscyphus intermedius* Grolle, *Nova Acta Leop. (n.ser.)* 25 (161): 32, 1962 [1963] (Grolle 1962a).

*** *Leptoscyphus lambinonii* Vanderp., Schäf.-Verw. et D.G.Long, *Taxon* 59 (1): 179, 2010 (Vanderpoorten et al. 2010).

*** *Leptoscyphus obcordatus* (Spruce) Grolle, *Nova Acta Leop. (n.ser.)* 25 (161): 33, 1962 [1963] (Grolle 1962a). Bas.: *Leioscyphus obcordatus* Spruce, *Trans. & Proc. Bot. Soc. Edinburgh* 15: 446, 1885 (Spruce 1885).

*** *Leptoscyphus ovatus* (Spruce) Grolle, *Nova Acta Leop. (n.ser.)* 25 (161): 45, 1962 [1963] (Grolle 1962a). Bas.: *Leioscyphus ovatus* Spruce, *J. Linn. Soc., Bot.* 30 (210): 357, 1895 (Gepp 1895b).

*** *Leptoscyphus porphyrius* (Nees) Grolle, *Österr. Bot. Z.* 117 (1): 3, 1969 (Grolle 1969a). Bas.: *Chiloscyphus porphyrius* Nees, *Syn. Hepat.* 2: 185, 1845 (Gottsche et al. 1845a).

*** *Leptoscyphus porphyrius* subsp. *azoricus* (H.Buch et Perss.) Vanderp. et Heinrichs, *Taxon* 59 (1): 181, 2010 (Vanderpoorten et al. 2010). Bas.: *Mylia azorica* H.Buch et Perss., *Bryophyt. Azoren Madeira*: 7, 1941 (Buch and Persson 1941).

** **subg. *Physoscyphus* Grolle**, *Nova Acta Leop. (n.ser.)* 25 (161): 51, 1962 (Grolle 1962a).

** **sect. *Homaloscyphus* Grolle**, *Nova Acta Leop. (n.ser.)* 25 (161): 58, 1962 (Grolle 1962a).

*** *Leptoscyphus chilensis* (De Not.) Hässel, *J. Hattori Bot. Lab.* 91: 207, 2001 (Hässel 2001). Bas.: *Lophocolea chilensis* De Not., *Mem. Reale Accad. Sci. Torino (ser. 2)* 16: 222, 1857 (De Notaris 1857).

* *Leptoscyphus difficilis* (Steph.) Fulford, *Mem. New York Bot. Gard.* 11 (4): 534, 1976 (Fulford 1976). Bas.: *Chiloscyphus difficilis* Steph., *Biblioth. Bot.* 87 (2): 222, 1916 (Stephani 1916a).¹⁴⁶

*** *Leptoscyphus diversifolius* (Gottsche) Grolle, *Nova Acta Leop. (n.ser.)* 25 (161): 58, 1962 [1963] (Grolle 1962a). Bas.: *Lophocolea diversifolia* Gottsche, *Syn. Hepat.* 2: 166, 1845 (Gottsche et al. 1845a).

*** *Leptoscyphus expansus* (Lehm.) Grolle, *Nova Acta Leop. (n.ser.)* 25 (161): 60, 1962 [1963] (Grolle 1962a). Bas.: *Jungermannia expansa* Lehm., *Linnaea* 4: 361, 1829 (Lehmann 1829).

¹⁴⁶ *Leptoscyphus difficilis* is conspecific with *Leptoscyphus expansus* in Grolle (1962a), but it was accepted by Vanderpoorten et al. (2010).

- *** *Leptoscyphus hedbergii* (S.W.Arnell) R.M.Schust., Amer. Midl. Naturalist 62 (1): 13, 1959 (Schuster 1959a). Bas.: *Mylia hedbergii* S.W.Arnell, Ark. Bot. (n.ser.) 3 (16): 547, 1956 (Arnell 1956e).
- * *Leptoscyphus huidobroanus* (Mont.) Gottsche, Bot. Zeitung (Berlin) Beil. 16: 33, 1858 (Gottsche 1858). Bas.: *Chiloscyphus huidobroanus* Mont., Ann. Sci. Nat. Bot. (sér. 3) 4: 352, 1845 (Montagne 1845b).¹⁴⁷
- *** *Leptoscyphus huonicus* Piippo, Acta Bot. Fenn. 131: 152, 1985 (Piippo 1985a).
- *** *Leptoscyphus magellanicus* (Gola) Hässel, J. Hattori Bot. Lab. 91: 214, 2001 (Hässel 2001). Bas.: *Lophozia magellanica* Gola, Nuovo Giorn. Bot. Ital. (n.ser.) 29 (1/4): 165, 1922 [1923] (Gola 1922).
- ** **sect. *Physoscyphus* Grolle**, Nova Acta Leop. (n.ser.) 25 (161): 51, 1962 (Grolle 1962a).
- *** *Leptoscyphus amphibolius* (Nees) Grolle, Nova Acta Leop. (n.ser.) 25 (161): 54, 1962 [1963] (Grolle 1962a). Bas.: *Jungermannia amphibolia* Nees, Fl. Bras. (Martius) 1 (1): 334, 1833 (Nees 1833a).
- *** *Leptoscyphus infuscatus* (Mitt.) E.W.Jones ex Grolle, Nova Acta Leop. (n.ser.) 25 (161): 52, 1962 [1963] (Grolle 1962a). Bas.: *Leioscyphus infuscatus* Mitt., J. Linn. Soc., Bot. 22 (146): 321, 1886 (Mitten 1886b).
- ** **subg. *Spinoscyphus* Vanderp., Schäf.-Verw. et D.G.Long**, Taxon 59 (1): 183, 2010 (Vanderpoorten et al. 2010).
- *** *Leptoscyphus cleefii* Fulford, Mem. New York Bot. Gard. 11 (4): 534, 1976 (Fulford 1976).
- *** *Leptoscyphus spectabilis* (Steph.) Grolle, J. Bryol. 11 (2): 328, 1980 [1981] (Grolle 1980c). Bas.: *Lophocolea spectabilis* Steph., Bull. Herb. Boissier (sér. 2) 7 (4): 302 (166), 1907 (Stephani 1907d).

Incertae sedis

- *** *Leptoscyphus autoicus* (J.J.Engel et Gradst.) Vanderp. et Gradst., J. Bryol. 34 (4): 252, 2012 (Vanderpoorten et al. 2012). Bas.: *Physotheca autoica* J.J.Engel et Gradst., Taxon 52 (4): 764, 2003 (Engel and Gradstein 2003).
- ** *Leptoscyphus beckettianus* (Steph.) R.M.Schust. ex J.J.Engel, Nova Hedwigia 93 (3/4): 402, 2011 (Engel 2011). Bas.: *Chiloscyphus beckettianus* Steph., Bull. Herb. Boissier (sér. 2) 8 (1): 59 (235), 1908 (Stephani 1908k).
- ** *Leptoscyphus compactus* (Colenso) J.J.Engel, Nova Hedwigia 100 (3/4): 579, 2015 (Engel 2015a). Bas.: *Chiloscyphus compactus* Colenso, Trans. & Proc. New Zealand Inst. 21: 63, 1889 (Colenso 1889).

¹⁴⁷ *Leptoscyphus huidobroanus* is conspecific with *Leptoscyphus expansus* in Váňa and Engel (2013) rejecting the conclusion by Hässel (2001) that it is an independent species, but it was accepted by Vanderpoorten et al. (2010).

- ** *Leptoscyphus erraticus* (W.Martin et E.A.Hodgs.) J.J.Engel, *Nova Hedwigia* 99 (1/2): 168, 2014 (Engel 2014). Bas.: *Chiloscyphus erraticus* W.Martin et E.A.Hodgs., *Trans. & Proc. Roy. Soc. New Zealand* 78 (4): 497, 1950 (Martin 1950).
- *** *Leptoscyphus horizontalis* (Hook.) Kühnem., *Revista Centro Estud. Doct. Ci. Nat.* 1: 176, 1937 (Kühnemann 1937). Bas.: *Jungermannia horizontalis* Hook., *Musci Exot.* 1: tab. 96, 1818 (Hooker 1818).
- ** *Leptoscyphus normalis* (Steph.) J.J.Engel, *Nova Hedwigia* 100 (3/4): 579, 2015 (Engel 2015a). Bas.: *Lophocolea normalis* Steph., *Sp. Hepat.* (Stephani) 6: 285, 1922 (Stephani 1922).
- ** *Leptoscyphus physanthus* (Hook.f. et Taylor) J.J.Engel, *Nova Hedwigia* 99 (1/2): 168, 2014 (Engel 2014). Bas.: *Jungermannia physantha* Hook.f. et Taylor, *London J. Bot.* 3: 561, 1844 (Hooker and Taylor 1844d).
- ** *Leptoscyphus submarginatus* (Hook.f. et Taylor) J.J.Engel, *Bryologist* 94 (4): 436, 1991 (Engel 1991b). Bas.: *Lophocolea submarginata* Hook.f. et Taylor, *London J. Bot.* 5: 367, 1846 (Taylor 1846b).
- *** *Leptoscyphus trapezoides* (Mont.) L.Söderstr., *Phytotaxa* 112 (1): 27, 2013 (Söderström et al. 2013f). Bas.: *Lophocolea trapezoides* Mont., *Ann. Sci. Nat. Bot.* (sér. 2) 19: 251, 1843 (Montagne 1843).
- *** ***Lophocolea* (Dumort.) Dumort.**, *Recueil Observ. Jungerm.*: 17, 1835 (Dumortier 1835). Bas.: *Jungermannia* sect. *Lophocolea* Dumort., *Syll. Jungerm. Europ.*: 59, 1831 (Dumortier 1831).
- *** *Lophocolea aberrans* Lindenb. et Gottsche, *Syn. Hepat.* 5: 696, 1847 (Gottsche et al. 1847).
- *** *Lophocolea aequifolia* Nees et Mont., *Ann. Sci. Nat. Bot.* (sér. 2) 5: 55, 1836 (Nees and Montagne 1836).
- * *Lophocolea angustistipula* Steph., *Sp. Hepat.* (Stephani) 6: 260, 1922 (Stephani 1922).
- *** *Lophocolea anisoloba* (J.J.Engel et Glenny) L.Söderstr., *Phytotaxa* 112 (1): 25, 2013 (Söderström et al. 2013f). Bas.: *Chiloscyphus anisolobus* J.J.Engel et Glenny, *Bryologist* 111 (1): 118, 2008 (Engel and Glenny 2008b).
- ** *Lophocolea anomala* Steph., *Sp. Hepat.* (Stephani) 6: 300, 1922 (Stephani 1922).
- ** *Lophocolea anomoda* (Mont.) Steph., *Hedwigia* 32 (5): 327, 1893 (Stephani 1893d). Bas.: *Chiloscyphus anomodus* Mont., *Ann. Sci. Nat. Bot.* (sér. 3) 4: 352, 1845 (Montagne 1845b).
- ** *Lophocolea apalachicola* R.M.Schust., *Hepat. Anthocerotae N. Amer.* 4: 195, 1980 (Schuster 1980c).
- *** *Lophocolea aperticaulis* (J.J.Engel) L.Söderstr., *Phytotaxa* 112 (1): 25, 2013 (Söderström et al. 2013f). Bas.: *Chiloscyphus aperticaulis* J.J.Engel, *J. Hattori Bot. Lab.* 95: 229, 2004 (Engel 2004b).
- ** *Lophocolea aphelophylla* (Hässel) Váňa, *Phytotaxa* 112 (1): 25, 2013 (Söderström et al. 2013f). Bas.: *Chiloscyphus aphelophyllus* Hässel, *J. Hattori Bot. Lab.* 98: 123, 2005 (Hässel 2005).

- ** *Lophocolea apophylla* (Hässel) Váňa, Phytotaxa 112 (1): 25, 2013 (Söderström et al. 2013f). Bas.: *Chiloscyphus apophyllus* Hässel, J. Hattori Bot. Lab. 98: 126, 2005 (Hässel 2005).
- *** *Lophocolea appalachiana* R.M.Schust., Hepat. Anthocerotae N. Amer. 4: 208, 1980 (Schuster 1980c).
- ** *Lophocolea ascensionis* Steph., Sp. Hepat. (Stephani) 6: 261, 1922 (Stephani 1922).
- ** *Lophocolea asperrima* Steph., Bull. Herb. Boissier (sér. 2) 6 (11): 949 (129), 1906 (Stephani 1906c).
- ** *Lophocolea atra* Gola, Nuovo Giorn. Bot. Ital. (n.ser.) 29 (1/4): 167, 1922 [1923] (Gola 1922).
- *** *Lophocolea attenuata* Steph., Bih. Kongl. Svenska Vetensk.-Akad. Handl. 26 (III, 6): 34, 1900 (Stephani 1900b).
- *** *Lophocolea australis* Gottsche, Linnaea 28 (5): 553, 1856 [1857] (Gottsche 1856).
- ** *Lophocolea autoica* Steph., Sp. Hepat. (Stephani) 6: 262, 1922 (Stephani 1922).
- ** *Lophocolea baldwinii* Steph., Bull. Herb. Boissier (sér. 2) 6 (11): 950 (130), 1906 (Stephani 1906c).
- ** *Lophocolea bartlettii* H.A.Mill., Ark. Bot. (n.ser.) 5 (2): 506, 1963 (Miller 1963).
- ** *Lophocolea bewsii* (Sim) Grolle, Trans. Brit. Bryol. Soc. 3 (4): 588, 1959 (Grolle 1959b). Bas.: *Leptoscyphus bewsii* Sim, Trans. Roy. Soc. South Africa 15 (1): 103, 1926 (Sim 1926).
- ** *Lophocolea bicuspidata* Steph., Sp. Hepat. (Stephani) 6: 263, 1922 (Stephani 1922).
- *** *Lophocolea bidentata* (L.) Dumort., Recueil Observ. Jungerm.: 17, 1835 (Dumortier 1835). Bas.: *Jungermannia bidentata* L., Sp. Pl. 1: 1132, 1753 (Linnaeus 1753).¹⁴⁸
- ** *Lophocolea bifidistipula* Steph., Sp. Hepat. (Stephani) 6: 264, 1922 (Stephani 1922).
- *** *Lophocolea bispinosa* (Hook.f. et Taylor) Gottsche, Lindenb. et Nees, Syn. Hepat. 2: 162, 1845 (Gottsche et al. 1845a). Bas.: *Jungermannia bispinosa* Hook.f. et Taylor, London J. Bot. 3: 378, 1844 (Hooker and Taylor 1844a).
- ** *Lophocolea bootanensis* Steph., Sp. Hepat. (Stephani) 6: 265, 1922 (Stephani 1922).
- ** *Lophocolea boulyana* Steph., Sp. Hepat. (Stephani) 6: 264, 1922 (Stephani 1922).
- ** *Lophocolea bowiena* Steph., J. & Proc. Roy. Soc. New South Wales 48 (1/2): 117, 1914 (Stephani and Watts 1914).
- *** *Lophocolea brookwoodiana* Paton et Sheahan, J. Bryol. 28 (3): 163, 2006 (Paton and Sheahan 2006).
- ** *Lophocolea caespitans* Steph., Bull. Herb. Boissier (sér. 2) 6 (11): 949 (129), 1906 (Stephani 1906c).
- *** *Lophocolea calcarea* Steph., Bull. Herb. Boissier (sér. 2) 6 (10): 884 (109), 1906 (Stephani 1906d).
- ** *Lophocolea caledonica* Steph., Sp. Hepat. (Stephani) 6: 267, 1922 (Stephani 1922).

¹⁴⁸ *Lophocolea bidentata* is a species complex as discussed by Váňa and Engel (2013) and it has a complicated nomenclatural history causing many misunderstandings. At least *Lophocolea coadunata* and *Lophocolea humifusa* also belong to the complex.

- *** *Lophocolea canaliculata* (Gottsche, Lindenb. et Nees) Steph., Bull. Herb. Boissier (sér. 2) 6 (9): 786 (86), 1906 (Stephani 1906e). Bas.: *Chiloscyphus canaliculatus* Gottsche, Lindenb. et Nees, Syn. Hepat. 5: 710, 1847 (Gottsche et al. 1847).
- *** *Lophocolea canaliculata* var. *concava* (J.J.Engel) L.Söderstr., Phytotaxa 112 (1): 26, 2013 (Söderström et al. 2013f). Bas.: *Chiloscyphus canaliculatus* var. *concavus* J.J.Engel, Fieldiana, Bot. (n.ser.) 48: 107, 2010 (Engel 2010).
- ** *Lophocolea cervicornis* Steph., Biblioth. Bot. 87 (2): 219, 1916 (Stephani 1916a).
- ** *Lophocolea ciliifera* Steph., Bull. Herb. Boissier (sér. 2) 6 (8): 660 (76), 1906 (Stephani 1906h).
- * *Lophocolea coadunata* (Sw.) Mont., Voy. Amér. Mérid., Bot. 7 (1): 76, 1839 (Montagne 1839b). Bas.: *Jungermannia coadunata* Sw., Fl. Ind. Occid. 3: 1850, 1806 (Swartz 1806).¹⁴⁹
- ** *Lophocolea concreta* Mont., Ann. Sci. Nat. Bot. (sér. 3) 4: 350, 1845 (Montagne 1845b).
- ** *Lophocolea convexula* Mitt., Fl. vit.: 405, 1871 [1873] (Mitten 1871).
- ** *Lophocolea corticola* Steph., Sp. Hepat. (Stephani) 6: 268, 1922 (Stephani 1922).
- *** *Lophocolea decurrens* Herzog, Trans. & Proc. Roy. Soc. New Zealand 65 (3): 352, 1936 (Herzog 1936b).
- * *Lophocolea deningeri* Herzog, Beih. Bot. Centralbl. 38 (2): 321, 1921 (Herzog 1921).
- ** *Lophocolea dentiflora* Steph., Bull. Herb. Boissier (sér. 2) 6 (7): 550 (64), 1906 (Stephani 1906f).
- ** *Lophocolea difformis* Nees, Syn. Hepat. 2: 166, 1845 (Gottsche et al. 1845a).
- ** *Lophocolea discedens* (Lehm. et Lindenb.) Lehm. et Lindenb., Syn. Hepat. 2: 167, 1845 (Gottsche et al. 1845a). Bas.: *Jungermannia discedens* Lehm. et Lindenb., Nov. Stirp. Pug. 5: 3, 1833 (Lehmann 1833).
- * *Lophocolea dusenii* Steph., Cat. Afr. Pl. (Hiern) 2 (2): 314, 1901 (Stephani 1901d).
- *** *Lophocolea erosa* (J.J.Engel) L.Söderstr., Phytotaxa 112 (1): 26, 2013 (Söderström et al. 2013f). Bas.: *Chiloscyphus erosus* J.J.Engel, Phytologia 83 (1): 43, 1997 [1998] (Engel 1997).
- *** *Lophocolea excisifolia* Steph., J. & Proc. Roy. Soc. New South Wales 48 (1/2): 118, 1914 (Stephani and Watts 1914).
- *** *Lophocolea fertilis* (J.J.Engel) L.Söderstr., Phytotaxa 112 (1): 26, 2013 (Söderström et al. 2013f). Bas.: *Chiloscyphus fertilis* J.J.Engel, Phytologia 83 (1): 43, 1997 [1998] (Engel 1997).
- ** *Lophocolea flavicans* Steph., Sp. Hepat. (Stephani) 6: 300, 1922 (Stephani 1922).
- *** *Lophocolea floribunda* Steph., Bull. Herb. Boissier (sér. 2) 6 (10): 886 (111), 1906 (Stephani 1906d).
- ** *Lophocolea foliicola* Spruce, Trans. & Proc. Bot. Soc. Edinburgh 15: 428, 1885 (Spruce 1885).
- ** *Lophocolea fragillima* Steph., Sp. Hepat. (Stephani) 6: 273, 1922 (Stephani 1922).

149 *Lophocolea coadunata* belongs to the *Lophocolea bidentata* species complex with complicated nomenclature (Vána and Engel 2013).

- *** *Lophocolea fragmentissima* R.M.Schust., Phytologia 39 (4): 245, 1978 (Schuster 1978a).
- *** *Lophocolea fragrans* (Moris et De Not.) Gottsche, Lindenb. et Nees, Syn. Hepat. 2: 166, 1845 (Gottsche et al. 1845a). Bas.: *Jungermannia fragrans* Moris et De Not., Fl. Caprariae: 177, 1839 (Moris and De Notaris 1839).
- ** *Lophocolea glaziovii* Steph., Bull. Herb. Boissier (sér. 2) 6 (11): 961 (141), 1906 (Stephani 1906c).
- ** *Lophocolea gollanii* (Steph.) Váňa, Phytotaxa 112 (1): 26, 2013 (Söderström et al. 2013f). Bas.: *Chiloscyphus gollanii* Steph., Bull. Herb. Boissier (sér. 2) 7 (10): 837 (209), 1907 (Stephani 1907b).
- ** *Lophocolea granatensis* Gottsche, Ann. Sci. Nat. Bot. (sér. 5) 1: 126, 1864 (Gottsche 1864).
- ** *Lophocolea griffithiana* Steph., Sp. Hepat. (Stephani) 6: 274, 1922 (Stephani 1922).
- ** *Lophocolea hahnii* Steph., Bull. Herb. Boissier (sér. 2) 6 (8): 660 (76), 1906 (Stephani 1906h).
- ** *Lophocolea haskarliana* Gottsche, Syn. Hepat. 2: 153, 1845 (Gottsche et al. 1845a).
- *** *Lophocolea hattorii* (J.J.Engel) L.Söderstr., Phytotaxa 112 (1): 26, 2013 (Söderström et al. 2013f). Bas.: *Chiloscyphus hattorii* J.J.Engel, J. Hattori Bot. Lab. 74: 29, 1993 (Engel 1993).
- ** *Lophocolea hawaica* Steph., Bull. Herb. Boissier (sér. 2) 6 (11): 945 (125), 1906 (Stephani 1906c).
- ** *Lophocolea heterodonta* Steph., Sp. Hepat. (Stephani) 6: 275, 1922 (Stephani 1922).
- ** *Lophocolea heteromorpha* Steph., Sp. Hepat. (Stephani) 6: 275, 1922 (Stephani 1922).
- *** *Lophocolea heterophylla* (Schrad.) Dumort., Recueil Observ. Jungerm.: 17, 1835 (Dumortier 1835). Bas.: *Jungermannia heterophylla* Schrad., J. Bot. (Schrader) 5: 66, 1802 [1803] (Schrader 1802).
- ** *Lophocolea heterophylla* subsp. *cladogyna* R.M.Schust., Hepat. Anthocerotae N. Amer. 4: 223, 1980 (Schuster 1980c).
- ** *Lophocolea horikawana* S.Hatt., Bull. Tokyo Sci. Mus. 11: 50, 1944 (Hattori 1944d).
- ** *Lophocolea howeana* Steph., J. & Proc. Roy. Soc. New South Wales 48 (1/2): 118, 1914 (Stephani and Watts 1914).
- * *Lophocolea humifusa* (Hook.f. et Taylor) Gottsche, Lindenb. et Nees, Syn. Hepat. 5: 695, 1847 (Gottsche et al. 1847). Bas.: *Jungermannia humifusa* Hook.f. et Taylor, London J. Bot. 3: 472, 1844 (Hooker and Taylor 1844b).
- ** *Lophocolea humistrata* (Hook.f. et Taylor) Gottsche, Lindenb. et Nees, Syn. Hepat. 5: 701, 1847 (Gottsche et al. 1847). Bas.: *Jungermannia humistrata* Hook.f. et Taylor, London J. Bot. 4: 82, 1845 (Hooker and Taylor 1845).
- ** *Lophocolea itoana* Inoue, J. Jap. Bot. 31 (11): 340, 1956 (Inoue 1956).
- ** *Lophocolea javanica* Schiffn., Hep. Fl. Buitenzorg: 178, 1900 (Schiffner 1900a).
- ** *Lophocolea koponenii* (Piippo) Váňa, Phytotaxa 112 (1): 26, 2013 (Söderström et al. 2013f). Bas.: *Chiloscyphus koponenii* Piippo, Ann. Bot. Fenn. 35 (1): 55, 1998 (Piippo 1998).

- ** *Lophocolea kurzii* Sande Lac., Ann. Mus. Bot. Lugduno-Batavi 1: 296, 1864 (Sande Lacoste 1864).
- * *Lophocolea kurzii* var. *siamensis* N.Kitag., Acta Phytotax. Geobot. 30 (1/3): 33, 1979 (Kitagawa 1979b).
- ** *Lophocolea laceristipula* Steph., Sp. Hepat. (Stephani) 6: 281, 1922 (Stephani 1922).
- ** *Lophocolea latistipula* Steph., Sp. Hepat. (Stephani) 6: 281, 1922 (Stephani 1922).
- *** *Lophocolea lauterbachii* Steph., Bull. Herb. Boissier (sér. 2) 6 (11): 938 (118), 1906 (Stephani 1906c).
- * *Lophocolea laxissima* Herzog, Ann. Bryol. 5: 77, 1932 (Herzog 1932b).
- ** *Lophocolea ledermannii* Steph., Sp. Hepat. (Stephani) 6: 300, 1922 (Stephani 1922).
- *** *Lophocolea lenta* (Hook.f. et Taylor) Gottsche, Lindenb. et Nees, Syn. Hepat. 2: 162, 1845 (Gottsche et al. 1845a). Bas.: *Jungermannia lenta* Hook.f. et Taylor, London J. Bot. 3: 379, 1844 (Hooker and Taylor 1844a).
- *** *Lophocolea leptantha* (Hook.f. et Taylor) Gottsche, Lindenb. et Nees, Syn. Hepat. 5: 694, 1847 (Gottsche et al. 1847). Bas.: *Jungermannia leptantha* Hook.f. et Taylor, London J. Bot. 3: 471, 1844 (Hooker and Taylor 1844b).
- *** *Lophocolea liebmanniana* Gottsche, Mexik. Leverm.: 113, 1863 (Gottsche 1863).
- ** *Lophocolea lindmannii* Steph., Bull. Herb. Boissier (sér. 2) 6 (11): 960 (140), 1906 (Stephani 1906c).
- *** *Lophocolea longiciliata* Herzog, Memoranda Soc. Fauna Fl. Fennica 27: 96, 1952 (Herzog 1952c).
- ** *Lophocolea lucida* (Spreng.) Mont., Voy. Amér. Mérid., Bot. 7 (2): 78, 1839 (Montagne 1839a). Bas.: *Jungermannia lucida* Spreng. Nov. Stirp. Pug. 5: 2, 1833 (Lehmann 1833).
- ** *Lophocolea madagascariensis* Gottsche, Abh. Naturwiss. Vereins Bremen 7: 344, 1882 (Gottsche 1882).
- ** *Lophocolea magna* (Udar et V.Nath) Váňa, Phytotaxa 183 (4): 291, 2014 (Váňa et al. 2014a). Bas.: *Cephaloziella magna* Udar et V.Nath, Geophytology 6 (1): 105, 1976 (Udar and Nath 1976).
- *** *Lophocolea mediinfrons* (J.J.Engel et Braggins) L.Söderstr., Phytotaxa 112 (1): 26, 2013 (Söderström et al. 2013f). Bas.: *Chiloscyphus mediinfrons* J.J.Engel et Braggins, Fieldiana, Bot. (n.ser.) 48: 119, 2010 (Engel 2010).
- ** *Lophocolea micronesica* Inoue et H.A.Mill., Bull. Natl. Sci. Mus. Tokyo (n.ser.) 11 (1): 4, 1968 (Inoue and Miller 1968).
- * *Lophocolea microstipula* Steph., Bih. Kongl. Svenska Vetensk.-Akad. Handl. 26 (III, 6): 43, 1900 (Stephani 1900b).¹⁵⁰
- *** *Lophocolea minor* Nees, Naturgesch. Eur. Leberm. 2: 330, 1836 (Nees 1836).
- ** *Lophocolea minutistipula* Steph., Sp. Hepat. (Stephani) 6: 283, 1922 (Stephani 1922).
- * *Lophocolea mollis* (Nees) Nees, Syn. Hepat. 2: 158, 1845 (Gottsche et al. 1845a). Bas.: *Jungermannia mollis* Nees, Enum. Pl. Crypt. Javae: 24, 1830 (Nees 1830).¹⁵¹

¹⁵⁰ *Lophocolea microstipula* is possibly conspecific with *Lophocolea sabuletorum* (Engel 1978), but it was accepted by Hässel and Rubies (2009).

¹⁵¹ *Lophocolea mollis* is possibly conspecific with *Lophocolea difformis* (Grolle 1995).

- * *Lophocolea morobeana* Piippo, Acta Bot. Fenn. 131: 160, 1985 (Piippo 1985a).¹⁵²
- ** *Lophocolea muhavurensis* (S.W.Arnell) S.W.Arnell ex Pócs, Acta Bot. Acad. Sci. Hung. 25 (3/4): 227, 1979 [1980] (Bizot and Pócs 1979). Bas.: *Chiloscyphus muhavurensis* S.W.Arnell, Ark. Bot. (n.ser.) 3 (16): 526, 1956 (Arnell 1956e).
- *** *Lophocolea muricata* (Lehm.) Nees, Syn. Hepat. 2: 169, 1845 (Gottsche et al. 1845a). Bas.: *Jungermannia muricata* Lehm., Linnaea 4: 363, 1829 (Lehmann 1829).
- * *Lophocolea muricata* var. *major* Pearson, Forh. Vidensk.-Selsk. Kristiania 1892 (14): 10, 1893 (Pearson 1893).
- ** *Lophocolea nakajimae* S.Hatt. et Inoue, J. Hattori Bot. Lab. 21: 221, 1959 (Inoue 1959c).
- *** *Lophocolea novae-zeelandiae* (Lehm. et Lindenb.) Nees, Syn. Hepat. 2: 168, 1845 (Gottsche et al. 1845a). Bas.: *Jungermannia novae-zeelandiae* Lehm. et Lindenb., Nov. Stirp. Pug. 6: 33, 1834 (Lehmann 1834).
- *** *Lophocolea novae-zeelandiae* var. *meridionalis* (Steph.) L.Söderstr., Phytotaxa 112 (1): 26, 2013 (Söderström et al. 2013f). Bas.: *Lophocolea meridionalis* Steph., Bull. Herb. Boissier (sér. 2) 6 (10): 888 (113), 1906 (Stephani 1906d).
- ** *Lophocolea orbigniana* Nees et Mont., Ann. Sci. Nat. Bot. (sér. 2) 5: 55, 1836 (Nees and Montagne 1836).
- ** *Lophocolea papulimarginata* H.A.Mill., Phytologia 47 (4): 323, 1981 (Miller 1981). *Nom. nov. pro Lophocolea papulosa* Steph., Sp. Hepat. (Stephani) 6: 286, 1922 (Stephani 1922), *nom. illeg.*
- ** *Lophocolea parca* (Gottsche) Fulford et Sharp, Mem. New York Bot. Gard. 63: 19, 1990 (Fulford and Sharp 1990). Bas.: *Jungermannia parca* Gottsche, Mexik. Leverm.: 94, 1863 (Gottsche 1863).
- ** *Lophocolea parva* Steph., Sp. Hepat. (Stephani) 6: 287, 1922 (Stephani 1922).
- *** *Lophocolea parvispinea* (J.J.Engel) L.Söderstr., Phytotaxa 112 (1): 26, 2013 (Söderström et al. 2013f). Bas.: *Chiloscyphus parvispineus* J.J.Engel, Phytologia 83 (1): 44, 1997 [1998] (Engel 1997).
- ** *Lophocolea parvistipula* Steph., Sp. Hepat. (Stephani) 6: 287, 1922 (Stephani 1922).
- *** *Lophocolea patulistipa* Steph., Kungl. Svenska Vetensk.-Akad. Handl. (n.ser.) 46 (9): 50, 1911 (Stephani 1911b).
- *** *Lophocolea perpusilla* (Hook.f. et Taylor) Gottsche, Lindenb. et Nees, Syn. Hepat. 2: 163, 1845 (Gottsche et al. 1845a). Bas.: *Jungermannia perpusilla* Hook.f. et Taylor, London J. Bot. 3: 380, 1844 (Hooker and Taylor 1844a).
- ** *Lophocolea piacenzai* (Gola) Váňa, Phytotaxa 112 (1): 26, 2013 (Söderström et al. 2013f). Bas.: *Lophozia piacenzai* Gola, Atti Reale Accad. Sci. Torino, Cl. Sci. Fis. Mat. Nat. 49: 759, 1914 (Gola 1914b).
- ** *Lophocolea pilistipula* Steph., Sp. Hepat. (Stephani) 6: 288, 1922 (Stephani 1922).
- * *Lophocolea pinnatistipula* Steph., Biblioth. Bot. 87 (2): 220, 1916 (Stephani 1916a).

¹⁵² *Lophocolea morobeana* is conspecific with *Chiloscyphus kurzii* in Piippo (1987), but it was accepted as very close to *Chiloscyphus kurzii* by Ariyanti et al. (2009).

- ** *Lophocolea platensis* C.Massal., Atti Accad. Sci. Med. Nat. Ferrara 80 (3/4): 12, 1906 (Massalongo 1906a).
- ** *Lophocolea purpurea* Steph., Sp. Hepat. (Stephani) 6: 289, 1922 (Stephani 1922).
- ** *Lophocolea pusilla* Steph., Sp. Hepat. (Stephani) 6: 290, 1922 (Stephani 1922).
- ** *Lophocolea randii* S.W.Arnell, Svensk Bot. Tidskr. 47 (3): 420, 1953 (Arnell 1953c).
- ** *Lophocolea rara* Steph., Sp. Hepat. (Stephani) 6: 290, 1922 (Stephani 1922).
- ** *Lophocolea rectangularis* Herzog, Rev. Bryol. Lichénol. 23 (1/2): 43, 1954 (Herzog 1954).
- ** *Lophocolea rectangulata* Mitt., Fl. vit.: 404, 1871 [1873] (Mitten 1871).¹⁵³
- *** *Lophocolea rupicola* Steph., Bull. Herb. Boissier (sér. 2) 6 (10): 874 (99), 1906 (Stephani 1906d).
- *** *Lophocolea sabuletorum* (Hook.f. et Taylor) Gottsche, Lindenb. et Nees, Syn. Hepat. 5: 697, 1847 (Gottsche et al. 1847). Bas.: *Jungermannia sabuletorum* Hook.f. et Taylor, London J. Bot. 3: 469, 1844 (Hooker and Taylor 1844b).
- ** *Lophocolea salacensis* Steph., Bull. Herb. Boissier (sér. 2) 6 (11): 943 (123), 1906 (Stephani 1906c).
- ** *Lophocolea savesiana* Steph., Bull. Herb. Boissier (sér. 2) 6 (11): 942 (122), 1906 (Stephani 1906c).
- *** *Lophocolea semiteres* (Lehm.) Mitt., J. Linn. Soc., Bot. 16 (91): 188, 1877 (Mitten 1877). Bas.: *Jungermannia semiteres* Lehm., Linnaea 4: 363, 1829 (Lehmann 1829).¹⁵⁴
- *** *Lophocolea semiteres* var. *retusa* (J.J.Engel) L.Söderstr., Phytotaxa 112 (1): 27, 2013 (Söderström et al. 2013f). Bas.: *Chiloscyphus semiteres* var. *retusus* J.J.Engel, Phytologia 83 (1): 44, 1997 [1998] (Engel 1997).
- ** *Lophocolea serrata* Mitt., St. Helena: 368, 1875 (Mitten 1875).
- ** *Lophocolea siamensis* Steph., Sp. Hepat. (Stephani) 6: 293, 1922 (Stephani 1922).
- ** *Lophocolea sikkimensis* (Steph.) Herzog et Grolle, Rev. Bryol. Lichénol. 27 (3/4): 164, 1958 [1959] (Herzog and Grolle 1958). Bas.: *Herpocladium sikkimense* Steph., Sp. Hepat. (Stephani) 6: 349, 1922 (Stephani 1922).
- * *Lophocolea silvestris* Gottsche, Abh. Naturwiss. Vereins Bremen 7: 345, 1882 (Gottsche 1882).
- ** *Lophocolea steetziae* De Not., Epat. Borneo: 20, 1874 (De Notaris 1874).
- *** *Lophocolea striatella* (C.Massal.) Schiffn., Leberm., Forschungsr. Gazelle 4 (4): 13, 1890 (Schiffner 1890). Bas.: *Chiloscyphus striatellus* C.Massal., Nuovo Giorn. Bot. Ital. 17 (3): 232, 1885 (Massalongo 1885).
- ** *Lophocolea subbidentata* Herzog, Rev. Bryol. Lichénol. 23 (1/2): 43, 1954 (Herzog 1954).
- ** *Lophocolea subcostata* Steph., Sp. Hepat. (Stephani) 6: 295, 1922 (Stephani 1922).
- *** *Lophocolea subporosa* Mitt., Bot. antarct. voy. II (Fl. Nov.-Zel. 2): 137, 1854 (Mitten 1854).

¹⁵³ *Lophocolea rectangulata* may be a *Cryptolophocolea* species.

¹⁵⁴ *Lophocolea semiteres* is a species complex also including *Lophocolea platensis* and *Lophocolea undulata*.

- ** *Lophocolea subporosa* var. *inflexifolia* (Steph.) L.Söderstr., Phytotaxa 112 (1): 27, 2013 (Söderström et al. 2013f). Bas.: *Lophocolea inflexifolia* Steph., Sp. Hepat. (Stephani) 6: 278, 1922 (Stephani 1922).
- ** *Lophocolea subviridis* (Hook.f. et Taylor) Gottsche, Lindenb. et Nees, Syn. Hepat. 5: 699, 1847 (Gottsche et al. 1847). Bas.: *Jungermannia subviridis* Hook.f. et Taylor, London J. Bot. 3: 473, 1844 (Hooker and Taylor 1844b).
- ** *Lophocolea sumatrana* Schiffn., Denkschr. Kaiserl. Akad. Wiss., Math.-Naturwiss. Kl. 70: 195, 1900 [1901] (Schiffner 1900c).
- *** *Lophocolea sylvatica* Mitt., Rep. Challenger, Bot. 1 (3, 1): 84, 1884 (Mitten 1884b).
- ** *Lophocolea tenera* Ångstr., Öfvers. Kongl. Vetensk.-Akad. Förh. 33 (7): 79, 1876 [1877] (Ångström 1876).
- ** *Lophocolea tenerrima* Spruce, Trans. & Proc. Bot. Soc. Edinburgh 15: 439, 1885 (Spruce 1885).
- ** *Lophocolea teptepensis* Piippo, Acta Bot. Fenn. 131: 163, 1985 (Piippo 1985a).
- *** *Lophocolea textilis* (Hook.f. et Taylor) Gottsche, Lindenb. et Nees, Syn. Hepat. 5: 696, 1847 (Gottsche et al. 1847). Bas.: *Jungermannia textilis* Hook.f. et Taylor, London J. Bot. 3: 468, 1844 (Hooker and Taylor 1844b).
- ** *Lophocolea textiloidea* J.J.Engel, Phytologia 41 (5): 311, 1979 (Engel 1979a). *Nom. nov. pro Chiloscypus lucidus* Mitt., J. Linn. Soc., Bot. 15 (82): 64, 1876 (Mitten 1876a), *nom. illeg.*
- *** *Lophocolea trichocoleoides* (Glenny, J.J.Engel et He-Nygrén) L.Söderstr., Phytotaxa 112 (1): 27, 2013 (Söderström et al. 2013f). Bas.: *Chiloscypus trichocoleoides* Glenny, J.J.Engel et He-Nygrén, J. Bryol. 31 (2): 100, 2009 (Glenny et al. 2009).
- ** *Lophocolea tricuspidata* Herzog, Rev. Bryol. Lichénol. 11 (1): 17, 1938 [1939] (Herzog 1938a).
- *** *Lophocolea tristiana* S.W.Arnell, Results Norweg. Sci. Exped. Tristan da Cunha 42: 19, 1958 (Arnell 1958b).
- * *Lophocolea undulata* Mont., Ann. Sci. Nat. Bot. (sér. 3) 4: 351, 1845 (Montagne 1845b).
- *** *Lophocolea villosa* Mitt., Sp. Hepat. (Stephani) 6: 299, 1922 (Stephani 1922).
- ** *Lophocolea wacei* (S.W.Arnell ex J.J.Engel et Váňa) Váňa et L.Söderstr., Phytotaxa 112 (1): 27, 2013 (Söderström et al. 2013f). Bas.: *Chiloscypus wacei* S.W.Arnell ex J.J.Engel et Váňa, Mem. New York Bot. Gard. 105: 48, 2013 (Váňa and Engel 2013).
- *** *Lophocolea wambana* Piippo, Acta Bot. Fenn. 131: 163, 1985 (Piippo 1985a).
- ** *Lophocolea werthii* (J.J.Engel et R.M.Schust.) Váňa et L.Söderstr., Phytotaxa 112 (1): 27, 2013 (Söderström et al. 2013f). Bas.: *Chiloscypus werthii* J.J.Engel et R.M.Schust., Nova Hedwigia 39: 425, 1984 [1985] (Engel and Schuster 1984).
- ** *Lophocolea widgrenii* Steph., Bull. Herb. Boissier (sér. 2) 7 (1): 66 (154), 1907 (Stephani 1907c). *Nom. nov. pro Lophocolea pallida* Ångstr., Öfvers. Kongl. Vetensk.-Akad. Förh. 33 (7): 80, 1876 [1877] (Ångström 1876), *nom. illeg.*
- ** **Otoscyphus** J.J.Engel, Bardat et Thouvenot, Cryptog. Bryol. 33 (3): 280, 2012 (Engel et al. 2012).

- *** *Otoscyphus crassicaulis* (Steph.) J.J.Engel, Bardat et Thouvenot, *Cryptog. Bryol.* 33 (3): 280, 2012 (Engel et al. 2012). Bas.: *Lophocolea crassicaulis* Steph., *Sp. Hepat.* (Stephani) 6: 268, 1922 (Stephani 1922).
- *** ***Pachyglossa Herzog et Grolle***, *Rev. Bryol. Lichénol.* 27 (3/4): 150, 1958 [1959] (Herzog and Grolle 1958).
- *** *Pachyglossa austrigena* (Hook.f. et Taylor) L.Söderstr., *Phytotaxa* 112 (1): 24, 2013 (Söderström et al. 2013f). Bas.: *Jungermannia austrigena* Hook.f. et Taylor, *London J. Bot.* 3: 466, 1844 (Hooker and Taylor 1844b).
- *** *Pachyglossa austrigena* subsp. *okaritana* (Steph.) L.Söderstr., *Phytotaxa* 112 (1): 24, 2013 (Söderström et al. 2013f). Bas.: *Lophocolea okaritana* Steph., *Bull. Herb. Boissier (sér. 2)* 6 (9): 785 (85), 1906 (Stephani 1906e).
- *** *Pachyglossa boveana* (C.Massal.) L.Söderstr., *Phytotaxa* 112 (1): 24, 2013 (Söderström et al. 2013f). Bas.: *Lophocolea boveana* C.Massal., *Nuovo Giorn. Bot. Ital.* 17 (3): 225, 1885 (Massalongo 1885).
- ** *Pachyglossa dissitifolia* Herzog et Grolle, *Rev. Bryol. Lichénol.* 27 (3/4): 155, 1958 [1959] (Herzog and Grolle 1958).
- * *Pachyglossa exilis* (Herzog et Grolle) Hässel et Solari, *Transecta botánica de la Patagonia austral*: 324, 1985 (Hässel and Solari 1985). Bas.: *Pachyglossa spegazziniana* var. *exilis* Herzog et Grolle, *Rev. Bryol. Lichénol.* 27 (3/4): 159, 1958 [1959] (Herzog and Grolle 1958).¹⁵⁵
- ** *Pachyglossa fissa* (Mitt.) Herzog et Grolle, *Rev. Bryol. Lichénol.* 28 (3/4): 346, 1959 [1960] (Grolle 1959c). Bas.: *Herpocladium fissum* Mitt., *J. Linn. Soc., Bot.* 15 (82): 69, 1876 (Mitten 1876a).
- *** *Pachyglossa gottscheoides* (Besch. et C.Massal.) L.Söderstr., *Phytotaxa* 112 (1): 25, 2013 (Söderström et al. 2013f). Bas.: *Lophocolea gottscheoides* Besch. et C.Massal., *Bull. Mens. Soc. Linn. Paris* 1 (79): 631, 1886 (Bescherelle and Massalongo 1886).
- ** *Pachyglossa grolleana* Váňa, *Cryptog. Bryol.* 26 (1): 86, 2005 (Váňa and Gremmen 2005).
- ** *Pachyglossa otiphylla* (Hook.f. et Taylor) Váňa, *Phytotaxa* 112 (1): 25, 2013 (Söderström et al. 2013f). Bas.: *Jungermannia otiphylla* Hook.f. et Taylor, *London J. Bot.* 3: 466, 1844 (Hooker and Taylor 1844b).
- ** *Pachyglossa spegazziniana* (C.Massal.) Herzog et Grolle, *Rev. Bryol. Lichénol.* 27 (3/4): 159, 1958 [1959] (Herzog and Grolle 1958). Bas.: *Lophocolea spegazziniana* C.Massal., *Nuovo Giorn. Bot. Ital.* 17 (3): 225, 1885 (Massalongo 1885).
- ** *Pachyglossa tenacifolia* (Hook.f. et Taylor) Herzog et Grolle, *Rev. Bryol. Lichénol.* 27 (3/4): 153, 1958 [1959] (Herzog and Grolle 1958). Bas.: *Jungermannia tenacifolia* Hook.f. et Taylor, *Bot. Antarct. Voy. I (Fl. Antarct. 1)*: 152, 1845 (Taylor and Hooker 1845).
- ** ***Perdusenia Hässel***, *Revista Mus. Argent. Ci. Nat., Bernardino Rivadavia Inst. Nac. Invest. Ci. Nat. Bot.* 7 (2): 11, 1989 (Hässel 1989b).

¹⁵⁵ *Pachyglossa exilis* may be a *Chiloscyphus* species.

- ** *Perdusenina rheophila* Hässel, Revista Mus. Argent. Ci. Nat., Bernardino Rivadavia Inst. Nac. Invest. Ci. Nat. Bot. 7 (2): 11, 1989 (Hässel 1989b).
- ** ***Pigafettoa* C.Massal.**, Nuovo Giorn. Bot. Ital. 17 (3): 237, 1885 (Massalongo 1885).
- ** *Pigafettoa crenulata* C.Massal., Nuovo Giorn. Bot. Ital. 17 (3): 237, 1885 (Massalongo 1885).
- ** ***Platycaulis* R.M.Schust.**, Phytologia 39 (4): 245, 1978 (Schuster 1978a).
- *** *Platycaulis renifolius* R.M.Schust., Phytologia 39 (4): 245, 1978 (Schuster 1978a).
- *** ***Stolonivector* J.J.Engel**, J. Hattori Bot. Lab. 69: 80, 1991 (Engel 1991a).
- ** *Stolonivector clasmatocoleoides* J.J.Engel, Nova Hedwigia 88 (3/4): 339, 2009 (Engel 2009).
- *** *Stolonivector fiordlandiae* (E.A.Hodgs.) J.J.Engel, J. Hattori Bot. Lab. 69: 82, 1991 (Engel 1991a). Bas.: *Lophocolea fiordlandiae* E.A.Hodgs., Trans. Roy. Soc. New Zealand 80 (3/4): 340, 1952 [1953] (Hodgson 1952).
- ** *Stolonivector fiordlandiae* var. *nodulosus* J.J.Engel, Nova Hedwigia 93 (3/4): 403, 2011 (Engel 2011).
- *** *Stolonivector gremmenii* (Váňa) Váňa, Phytotaxa 112 (1): 28, 2013 (Söderström et al. 2013f). Bas.: *Chiloscyphus gremmenii* Váňa, Cryptog. Bryol. 26 (1): 81, 2005 (Váňa and Gremmen 2005).
- ** *Stolonivector obtusilobus* J.J.Engel, Nova Hedwigia 88 (3/4): 337, 2009 (Engel 2009).
- ** *Stolonivector waipouensis* J.J.Engel, J. Hattori Bot. Lab. 93: 70, 2003 (Engel 2003).
- ** ***Xenocephalozia* R.M.Schust.**, Nova Hedwigia 10 (1/2): 25, 1965 (Schuster 1965b).
- ** *Xenocephalozia navicularis* (Steph.) R.M.Schust., Nova Hedwigia 10 (1/2): 25, 1965 (Schuster 1965b). Bas.: *Lophocolea navicularis* Steph., Bih. Kongl. Svenska Vetensk.-Akad. Handl. 26 (III, 6): 43, 1900 (Stephani 1900b).
- *** **Mastigophoraceae** R.M.Schust.
- ** ***Dendromastigophora* R.M.Schust.**, Mem. New York Bot. Gard. 45: 738, 1987 (Schuster 1987a).
- *** *Dendromastigophora flagellifera* (Hook.) R.M.Schust., Mem. New York Bot. Gard. 45: 738, 1987 (Schuster 1987a). Bas.: *Jungermannia flagellifera* Hook., Musci Exot. 1: tab. 59, 1818 (Hooker 1818).
- *** ***Mastigophora* Nees**, Naturgesch. Eur. Leberm. 3: 89, 1838 (Nees 1838b) nom. conserv. ¹⁵⁶

156 *Mastigophora* includes (*Mastigophora appendiculata*, *Mastigophora guineensis*, *Mastigophora pyramidalis* and *Mastigophora valida*) which Grolle and Piippo (1984) could not study since the types were destroyed in B.

- * *Mastigophora appendiculata* Steph., Sp. Hepat. (Stephani) 6: 368, 1922 (Stephani 1922).
- * *Mastigophora attenuata* (Taylor) Trevis., Mem. Reale Ist. Lombardo Sci. (Ser. 3), C. Sci. Mat. 4 (13): 416, 1877 (Trevisan 1877). Bas.: *Lepidozia attenuata* Taylor, London J. Bot. 5: 369, 1846 (Taylor 1846b).
- ** *Mastigophora caledonica* Steph., Rev. Bryol. 35 (2): 31, 1908 (Stephani 1908l).
- *** *Mastigophora diclados* (Brid. ex F.Weber) Nees, Naturgesch. Eur. Leberm. 3: 18, 1838 (Nees 1838b). Bas.: *Jungermannia diclados* Brid. ex F.Weber, Hist. Musc. Hepat. Prodr.: 56, 1815 (Weber 1815).
- ** *Mastigophora diclados* var. *borneensis* (De Not.) Schiffn., Nova Acta Acad. Caes. Leop.-Carol. German. Nat. Cur. 60 (2): 251, 1893 (Schiffner 1893a). Bas.: *Sendtnera diclados* var. *borneensis* De Not., Epat. Borneo: 42, 1874 (De Notaris 1874).
- ** *Mastigophora diclados* var. *ramentifissa* Herzog, Trans. Brit. Bryol. Soc. 1 (4): 315, 1950 (Herzog 1950a).
- * *Mastigophora diclados* var. *villosa* Herzog, Ann. Bryol. 5: 82, 1932 (Herzog 1932b).
- * *Mastigophora guineensis* Steph., Sp. Hepat. (Stephani) 6: 369, 1923 (Stephani 1923).
- * *Mastigophora humillima* (Taylor) Trevis., Mem. Reale Ist. Lombardo Sci. (Ser. 3), C. Sci. Mat. 4 (13): 416, 1877 (Trevisan 1877). Bas.: *Lepidozia humillima* Taylor, London J. Bot. 5: 369, 1846 (Taylor 1846b).
- * *Mastigophora pyramidana* Steph., Sp. Hepat. (Stephani) 6: 369, 1923 (Stephani 1923).
- ** *Mastigophora sepikiana* Piippo, Ann. Bot. Fenn. 23 (1): 2, 1986 (Piippo 1986b).
- ** *Mastigophora tuberculata* D.H.Mill. et H.A.Mill., J. Hattori Bot. Lab. 75: 181, 1994 (Miller and Miller 1994).
- * *Mastigophora valida* Steph., Sp. Hepat. (Stephani) 6: 369, 1923 (Stephani 1923).
- ** *Mastigophora viridula* (Nees) Trevis., Mem. Reale Ist. Lombardo Sci. (Ser. 3), C. Sci. Mat. 4 (13): 416, 1877 (Trevisan 1877). Bas.: *Jungermannia viridula* Nees, Flora 6 (2): 30, 1823 (Link 1823).
- *** *Mastigophora woodsii* (Hook.) Nees, Naturgesch. Eur. Leberm. 3: 95, 1838 (Nees 1838b). Bas.: *Jungermannia woodsii* Hook., Brit. Jungermann.: tab. 66, 1814 (Hooker 1814).

*** **Plagiochilaceae** Müll.Frib.

by L. Söderström

The placement of *Pedinophyllopsis* in Plagiochilaceae follows He-Nygrén and Piippo (2003). The inclusion of *Pseudolophocolea* in the family follows Söderström et al. (2013b). The subgeneric division of *Plagiochila* follows the review by Söderström et al. (2015b).

- ** ***Acrochila* R.M.Schust.**, J. Hattori Bot. Lab. 26: 285, 1963 (Schuster 1963b).

- *** *Acrochila biserialis* (Lehm. et Lindenb.) Grolle, J. Jap. Bot. 39 (8): 236, 1964 (Grolle 1964g). Bas.: *Plagiochila biserialis* Lehm. et Lindenb., Sp. Hepat. (Lindenberg) 5: 126, 1843 (Lindenberg 1843).
- ** *Acrochila caledonica* (Steph.) Inoue, J. Jap. Bot. 42 (6): 182, 1967 (Inoue 1967d). Bas.: *Plagiochila caledonica* Steph., Rev. Bryol. 35 (2): 32, 1908 (Stephani 1908).
- ** *Chiastocaulon* Carl, Flora 126: 58, 1931 (Carl 1931a).
- *** *Chiastocaulon dendroides* (Nees) Carl, Flora 126: 59, 1931 (Carl 1931a). Bas.: *Jungermannia dendroides* Nees, Enum. Pl. Crypt. Javae: 77, 1830 (Nees 1830).
- ** *Dinckleria* Trevis., Mem. Reale Ist. Lombardo Sci. (Ser. 3), C. Sci. Mat. 4 (13): 421, 1877 (Trevisan 1877).
- *** *Dinckleria fruticella* (Hook.f. et Taylor) J.J.Engel et Heinrichs, Cryptog. Bryol. 29 (2): 194, 2008 (Engel and Heinrichs 2008). Bas.: *Jungermannia fruticella* Hook.f. et Taylor, London J. Bot. 3: 565, 1844 (Hooker and Taylor 1844d).
- *** *Dinckleria pleurata* (Hook.f. et Taylor) Trevis., Mem. Reale Ist. Lombardo Sci. (Ser. 3), C. Sci. Mat. 4 (13): 421, 1877 (Trevisan 1877). Bas.: *Jungermannia pleurata* Hook.f. et Taylor, London J. Bot. 3: 372, 1844 (Hooker and Taylor 1844a).
- ** *Pedinophyllopsis* R.M.Schust. et Inoue, Phytologia 47 (4): 311, 1981 (Schuster and Engel 1981).
- ** *Pedinophyllopsis abdita* (Sull.) R.M.Schust. et Inoue, Phytologia 47 (4): 311, 1981 (Schuster and Engel 1981). Bas.: *Plagiochila abdita* Sull., Hooker's J. Bot. Kew Gard. Misc. 2: 317, 1850 (Sullivant 1850).
- ** *Pedinophyllum* Lindb. ex Nordst., Bot. Not. 1874: 156, 1874 (Nordstedt 1874).
- *** *Pedinophyllum autoicum* (Steph.) Inoue, Bull. Natl. Sci. Mus. Tokyo (n.ser.) 9 (4): 575, 1966 (Inoue 1966b). Bas.: *Plagiochila autoica* Steph., Sp. Hepat. (Stephani) 6: 126, 1917 (Stephani 1917a).
- *** *Pedinophyllum interruptum* (Nees) Kaal., Nyt Mag. Naturvidensk. 33 (1): 190, 1893 (Kaalaaas 1893a). Bas.: *Jungermannia interrupta* Nees, Naturgesch. Eur. Leberm. 1: 165, 1833 (Nees 1833c).
- *** *Pedinophyllum monoicum* (Steph.) Grolle, Nova Hedwigia 2: 287, 1960 (Grolle 1960b). Bas.: *Plagiochila monoica* Steph., Bull. Herb. Boissier (sér. 2) 3 (4): 331 (315), 1903 (Stephani 1903c).
- ** *Pedinophyllum truncatum* (Steph.) Inoue, J. Hattori Bot. Lab. 23: 35, 1960 [1961] (Inoue 1960). Bas.: *Clasmatocolea truncata* Steph., Bull. Herb. Boissier 5 (2): 87, 1897 (Stephani 1897b).
- *** *Plagiochila* (Dumort.) Dumort., Recueil Observ. Jungerm.: 14, 1835 (Dumortier 1835) nom. conserv. Bas.: *Radula* sect. *Plagiochila* Dumort., Syll. Jungerm. Europ.: 42, 1831 (Dumortier 1831).

- *** *Plagiochila heteromalla* (Lehm. et Lindenb.) Lindenb., Sp. Hepat. (Lindenberg) 2-4: 83, 1840 (Lindenberg 1840). Bas.: *Jungermannia heteromalla* Lehm. et Lindenb., Nov. Stirp. Pug. 6: 62, 1834 (Lehmann 1834).
- *** **sect. *Adianthoideae* Lindenb.**, Monogr. hep. gen. Plagiochilae: xx, 1844 (Lindenberg 1844).
- *** *Plagiochila adianthoides* (Sw.) Lindenb., Sp. Hepat. (Lindenberg) 2-4: 77, 1840 (Lindenberg 1840). Bas.: *Jungermannia adianthoides* Sw., Prodr. (Swartz): 142, 1788 (Swartz 1788).
- * *Plagiochila adianthoides* var. *aspergillifera* Spruce, Trans. & Proc. Bot. Soc. Edinburgh 15: 474, 1885 (Spruce 1885).
- *** *Plagiochila cristata* (Sw.) Lindenb., Sp. Hepat. (Lindenberg) 1: 33, 1839 (Lindenberg 1839). Bas.: *Jungermannia cristata* Sw., Prodr. (Swartz): 143, 1788 (Swartz 1788).
- *** *Plagiochila grandicrista* Steph., Bull. Herb. Boissier (sér. 2) 5 (10): 931 (581), 1905 (Stephani 1905f).
- *** *Plagiochila herminieri* Steph., Bull. Herb. Boissier (sér. 2) 5 (8): 748 (547), 1905 (Stephani 1905i).
- *** **sect. *Africanae* Heinrichs**, Taxon 54 (2): 319, 2005 (Heinrichs et al. 2005).
- *** *Plagiochila barteri* Mitt., J. Linn. Soc., Bot. 22 (146): 320, 1886 (Mitten 1886b).
- ** *Plagiochila barteri* var. *valida* (Steph.) Vanden Berghen, Bull. Jard. Bot. Natl. Belg. 51 (1/2): 73, 1981 (Vanden Berghen 1981). Bas.: *Plagiochila valida* Steph., Bull. Herb. Boissier (sér. 2) 4 (6): 587 (438), 1904 (Stephani 1904b).
- *** *Plagiochila colorans* Steph., Wiss. Ergebn. Deut. Zentr.-Afr. Exped. (1907-08), Bot. 2: 116, 1911 (Stephani 1911a).
- *** **sect. *Arrectae* Carl**, Ann. Bryol., Suppl. 2: 52, 1931 (Carl 1931b).
- * *Plagiochila arnelliana* Steph., Bull. Herb. Boissier (sér. 2) 2 (10): 861 (230), 1902 (Stephani 1902g).¹⁵⁷
- *** *Plagiochila badia* Mitt., Rep. Challenger, Bot. 1 (3, 1): 84, 1884 (Mitten 1884b).
- *** *Plagiochila bidens* Gottsche, Ann. Sci. Nat. Bot. (sér. 4) 8: 322, 1857 (Gottsche 1857).
- *** *Plagiochila bifaria* (Sw.) Lindenb., Sp. Hepat. (Lindenberg) 5: 127, 1843 (Lindenberg 1843). Bas.: *Jungermannia bifaria* Sw., Prodr. (Swartz): 145, 1788 (Swartz 1788).
- ** *Plagiochila bifaria* var. *rosea* (R.M.Schust.) Heinrichs, Org. Divers. Evol. 4 (1/2): 112, 2004 (Heinrichs et al. 2004). Bas.: *Rhodoplagiochila rosea* R.M.Schust., Phytologia 39 (4): 247, 1978 (Schuster 1978a).
- *** *Plagiochila chacabucensis* Steph., Kungl. Svenska Vetensk.-Akad. Handl. (n.ser.) 46 (9): 27, 1911 (Stephani 1911b).
- *** *Plagiochila emeiensis* Grolle et M.L.So, Bryologist 101 (2): 282, 1998 (Grolle and So 1998a).

¹⁵⁷ *Plagiochila arnelliana* may be conspecific with *Plagiochila bifaria* (Heinrichs et al. 1998).

- * *Plagiochila fragilis* Taylor, London J. Bot. 7: 198, 1848 (Taylor 1848a).¹⁵⁸
- *** *Plagiochila lunata* S.W.Arnell, Bot. Not. 115: 204, 1962 (Arnell 1962a).
- *** *Plagiochila pachyloma* Taylor, London J. Bot. 5: 267, 1846 (Taylor 1846a).
- * *Plagiochila pachyloma* var. *elatio* Spruce, Trans. & Proc. Bot. Soc. Edinburgh 15: 480, 1885 (Spruce 1885).
- ** *Plagiochila papillifolia* Steph., Biblioth. Bot. 87 (2): 207, 1916 (Stephani 1916a).
- *** *Plagiochila parviramifera* Inoue, J. Hattori Bot. Lab. 46: 317, 1979 (Mizutani 1979a).
- *** *Plagiochila pseudoattenuata* S.W.Arnell, Bot. Not. 115: 206, 1962 (Arnell 1962a).
- *** *Plagiochila punctata* (Taylor) Taylor, London J. Bot. 5: 261, 1846 (Taylor 1846a).
Bas.: *Jungermannia punctata* Taylor, Trans. Bot. Soc. Edinburgh 1: 179, 1844 (Taylor 1844b).
- *** *Plagiochila renauldii* Steph., Bull. Herb. Boissier (sér. 2) 4 (2): 156 (408), 1904 (Stephani 1904f).
- *** *Plagiochila retrorsa* Gottsche, Mexik. Leverm.: 67, 1863 (Gottsche 1863).
- *** *Plagiochila rubescens* (Lehm. et Lindenb.) Lindenb., Sp. Hepat. (Lindenberg) 2-4: 46, 1840 (Lindenberg 1840). Bas.: *Jungermannia rubescens* Lehm. et Lindenb., Nov. Stirp. Pug. 6: 63, 1834 (Lehmann 1834).
- *** *Plagiochila sichuanensis* Grolle et M.L.So, Bryologist 101 (2): 284, 1998 (Grolle and So 1998a).
- *** *Plagiochila spinulosa* (Dicks.) Dumort., Recueil Observ. Jungerm.: 15, 1835 (Dumortier 1835). Bas.: *Jungermannia spinulosa* Dicks., Fasc. Pl. Crypt. Brit. 2: 14, 1790 (Dickson 1790).
- ** *Plagiochila sticticola* Mont. et Gottsche, Ann. Sci. Nat. Bot. (sér. 4) 6: 198, 1856 (Montagne 1856a).
- *** *Plagiochila stricta* Lindenb., Sp. Hepat. (Lindenberg) 1: 20, 1839 (Lindenberg 1839).
- *** *Plagiochila tronadoris* Herzog, Darwiniana 11 (2): 214, 1957 (Herzog 1957b).
- *** *Plagiochila uncialis* (Hook.f. et Taylor) Gottsche, Lindenb. et Nees, Syn. Hepat. 5: 628, 1847 (Gottsche et al. 1847). Bas.: *Jungermannia uncialis* Hook.f. et Taylor, London J. Bot. 3: 459, 1844 (Hooker and Taylor 1844b).
- *** *Plagiochila wilmsiana* Steph., Sp. Hepat. (Stephani) 6: 240, 1921 (Stephani 1921).
- * **sect. *Caducifoliae* J.J.Engel et G.L.Merr.**, Nova Hedwigia 96 (3/4): 407, 2013 (Engel and Smith Merrill 2013).
- ** *Plagiochila caducifolia* Inoue et R.M.Schust., J. Hattori Bot. Lab. 34: 71, 1971 (Inoue and Schuster 1971).
- * **sect. *Cardotiae* Inoue**, Bull. Natl. Sci. Mus. Tokyo (n.ser.) 8 (3): 386, 1965 (Inoue 1965a).
- *** *Plagiochila cumingiana* Steph., Bull. Herb. Boissier (sér. 2) 4 (1): 32 (404), 1904 (Stephani 1904g).

¹⁵⁸ *Plagiochila fragilis* may be conspecific with *Plagiochila bifaria* (Heinrichs et al. 1998).

- *** *Plagiochila denticulata* Mitt., J. Proc. Linn. Soc., Bot. 5 (18): 95, 1860 [1861] (Mitten 1860c).
- *** *Plagiochila fragillima* Steph., Bull. Herb. Boissier (sér. 2) 3 (6): 522 (326), 1903 (Stephani 1903d).
- *** *Plagiochila pseudorenitens* Schiffn., Österr. Bot. Z. 49 (4): 132, 1899 (Schiffner 1899b).
- *** *Plagiochila stevensiana* Steph., Bull. Herb. Boissier (sér. 2) 3 (2): 110 (290), 1903 (Stephani 1903b).
- * **sect. *Cobanae* Carl**, Ann. Bryol., Suppl. 2: 79, 1931 (Carl 1931b).
- ** *Plagiochila cobana* Steph., Sp. Hepat. (Stephani) 6: 138, 1918 (Stephani 1918).
- ** *Plagiochila detecta* M.L.So et Grolle, Nova Hedwigia 71 (3/4): 391, 2000 (So and Grolle 2000b).
- *** *Plagiochila singularis* Schiffn., Hep. Fl. Buitenzorg: 158, 1900 (Schiffner 1900a).
- *** *Plagiochila tagawae* Inoue, J. Hattori Bot. Lab. 38: 561, 1974 (Inoue 1974a).
- ** *Plagiochila tixieri* Inoue, Bull. Natl. Sci. Mus. Tokyo, B 1 (3): 87, 1975 (Inoue 1975a).
- *** *Plagiochila zhuensis* Grolle et M.L.So, Bryologist 102 (2): 200, 1999 (Grolle and So 1999c).
- *** **sect. *Cucullatae* Schiffn.**, Hep. Fl. Buitenzorg: 107, 1900 (Schiffner 1900a).
- *** *Plagiochila bantamensis* (Reinw., Blume et Nees) Mont., Voy. Amér. Mérid., Bot. 7 (2): 82, 1839 (Montagne 1839a). Bas.: *Jungermannia bantamensis* Reinw., Blume et Nees, Nova Acta Phys.-Med. Acad. Caes. Leop.-Carol. Nat. Cur. 12 (1): 235, 1824 [1825] (Reinwardt et al. 1824a).
- *** *Plagiochila blepharophora* (Nees) Lindenb., Sp. Hepat. (Lindenberg) 2-4: 102, 1840 (Lindenberg 1840). Bas.: *Jungermannia blepharophora* Nees, Enum. Pl. Crypt. Javae: 71, 1830 (Nees 1830).
- ** *Plagiochila chauviniana* Mont., Ann. Sci. Nat. Bot. (sér. 3) 11: 34, 1849 (Montagne 1849).
- ** *Plagiochila clavatosaccata* Steph., Bull. Herb. Boissier (sér. 2) 4 (1): 25 (397), 1904 (Stephani 1904g).
- ** *Plagiochila grossispina* Steph., Sp. Hepat. (Stephani) 6: 162, 1918 (Stephani 1918).
- *** *Plagiochila integerrima* Steph., Bot. Jahrb. Syst. 8 (2): 83, 1886 (Stephani 1886d).
- * *Plagiochila integrilobula* Schiffn., Hep. Fl. Buitenzorg: 170, 1900 (Schiffner 1900a).¹⁵⁹
- ** *Plagiochila johannis-winkleri* Herzog, Mitt. Inst. Allg. Bot. Hamburg 7 (3): 187, 1931 (Herzog 1931a).
- * *Plagiochila kuhliana* Sande Lac., Ann. Mus. Bot. Lugduno-Batavi 1: 292, 1864 (Sande Lacoste 1864).¹⁶⁰

159 *Plagiochila integrilobula* is possibly conspecific with *Plagiochila blepharophora* (Söderström et al. 2010a).

160 *Plagiochila kuhliana* is possibly conspecific with *Plagiochila sciophila* (Söderström et al. 2010a).

- ** *Plagiochila kurzii* Steph., Bull. Herb. Boissier (sér. 2) 3 (2): 112 (292), 1903 (Stephani 1903b).
- ** *Plagiochila reischeckiana* Steph., Bull. Herb. Boissier (sér. 2) 3 (4): 331 (315), 1903 (Stephani 1903c).
- *** *Plagiochila sandei* Dozy ex Sande Lac., *Plagiochila Sandei*: 5, 1856 (Sande Lacoste 1856c).
- *** *Plagiochila sciophila* Nees, Sp. Hepat. (Lindenberg) 2-4: 100, 1840 (Lindenberg 1840).
- ** *Plagiochila sciophila* subsp. *ciliigera* (R.M.Schust.) L.Söderstr., Phytotaxa 208 (1): 84, 2015 (Söderström et al. 2015b). Bas.: *Plagiochila japonica* subsp. *ciliigera* R.M.Schust., Amer. Midl. Naturalist 62 (2): 354, 1959 (Schuster 1959b).
- * *Plagiochila stephanii* Schiffn., Hep. Fl. Buitenzorg: 166, 1900 (Schiffner 1900a).¹⁶¹
- ** *Plagiochila subplana* Lindenb., Sp. Hepat. (Lindenberg) 2-4: 73, 1840 (Lindenberg 1840).
- ** *Plagiochila vitiensis* Mitt., Bonplandia 9 (24): 367, 1861 (Mitten 1861).
- *** **sect. *Denticulatae* Schiffn.**, Hep. Fl. Buitenzorg: 106, 1900 (Schiffner 1900a).
- *** *Plagiochila alternans* Lindenb. et Gottsche, Syn. Hepat. 5: 648, 1847 (Gottsche et al. 1847).
- ** *Plagiochila ansata* (Hook.f. et Taylor) Gottsche, Lindenb. et Nees, Syn. Hepat. 5: 649, 1847 (Gottsche et al. 1847). Bas.: *Jungermannia ansata* Hook.f. et Taylor, London J. Bot. 3: 457, 1844 (Hooker and Taylor 1844b).
- *** *Plagiochila banksiana* Gottsche, Ann. Sci. Nat. Bot. (sér. 4) 8: 329, 1857 (Gottsche 1857).
- ** *Plagiochila banksiana* var. *echinophora* Inoue et R.M.Schust., J. Hattori Bot. Lab. 34: 62, 1971 (Inoue and Schuster 1971).
- ** *Plagiochila chonotica* Taylor, London J. Bot. 5: 260, 1846 (Taylor 1846a).
- ** *Plagiochila equitans* Gottsche, Ann. Sci. Nat. Bot. (sér. 4) 8: 331, 1857 (Gottsche 1857).
- * *Plagiochila fragmentissima* Inoue et R.M.Schust., J. Hattori Bot. Lab. 34: 155, 1971 (Inoue and Schuster 1971).¹⁶²
- *** *Plagiochila gigantea* Lindenb., Sp. Hepat. (Lindenberg) 2-4: 115, 1840 (Lindenberg 1840). *Nom. nov. pro Jungermannia gigantea* Hook., Musci Exot. 1: tab. 93, 1818 (Hooker 1818), *nom. illeg.*
- ** *Plagiochila gigantea* var. *inermis* J.J.Engel et G.L.Merr., Nova Hedwigia 91 (3/4): 513, 2010 (Engel and Smith Merrill 2010).
- *** *Plagiochila gregaria* (Hook.f. et Taylor) Gottsche, Lindenb. et Nees, Syn. Hepat. 5: 654, 1847 (Gottsche et al. 1847). Bas.: *Jungermannia gregaria* Hook.f. et Taylor, London J. Bot. 3: 564, 1844 (Hooker and Taylor 1844d).
- ** *Plagiochila hookeriana* Lindenb., Sp. Hepat. (Lindenberg) 2-4: 81, 1840 (Lindenberg 1840).

161 *Plagiochila stephanii* is possibly conspecific with *Plagiochila blepharophora* (Söderström et al. 2010a).

162 *Plagiochila fragmentissima* may be conspecific with *Plagiochila gregaria* (M.L. So and D. Glenn, pers. comm.).

- ** *Plagiochila latifrons* Gottsche et Hampe, *Linnaea* 27 (5): 553, 1854 (Hampe 1854).
- ** *Plagiochila minutula* (Hook.f. et Taylor) Gottsche, Lindenb. et Nees, *Syn. Hepat.* 5: 652, 1847 (Gottsche et al. 1847). Bas.: *Jungermannia minutula* Hook.f. et Taylor, *London J. Bot.* 3: 459, 1844 (Hooker and Taylor 1844b).
- *** *Plagiochila nobilis* Gottsche, *Bot. Zeitung* (Berlin) Beil. 16: 37, 1858 (Gottsche 1858).
- ** *Plagiochila obovata* Steph., *Kungl. Svenska Vetensk.-Akad. Handl. (n.ser.)* 46 (9): 33, 1911 (Stephani 1911b).
- *** *Plagiochila ovata* Lindenb. et Gottsche, *Syn. Hepat.* 5: 656, 1847 (Gottsche et al. 1847).
- *** *Plagiochila retrospectans* Lindenb., *Sp. Hepat. (Lindenberg)* 5: 123, 1843 (Lindenberg 1843). *Nom. nov. pro Jungermannia retrospectans* Nees, *Linnaea* 6 (4): 619, 1831 (Nees 1831), *nom. illeg.*
- ** *Plagiochila riparia* Steph., *Kungl. Svenska Vetensk.-Akad. Handl. (n.ser.)* 46 (9): 34, 1911 (Stephani 1911b).
- ** *Plagiochila rutlandii* Steph., *Bull. Herb. Boissier (sér. 2)* 4 (8): 776 (454), 1904 (Stephani 1904c).
- ** *Plagiochila subpectinata* Besch. et C.Massal., *Bull. Mens. Soc. Linn. Paris* 1 (79): 628, 1886 (Bescherelle and Massalongo 1886).
- *** **sect. *Duræ* Carl**, *Ann. Bryol., Suppl.* 2: 123, 1931 (Carl 1931b).
- ** *Plagiochila acanthocaulis* Sull., *Hooker's J. Bot. Kew Gard. Misc.* 2: 317, 1850 (Sullivant 1850).
- ** *Plagiochila angulata* Steph., *Bih. Kongl. Svenska Vetensk.-Akad. Handl.* 26 (III, 6): 26, 1900 (Stephani 1900b).
- ** *Plagiochila bicornuta* Steph., *Bot. Jahrb. Syst.* 23 (1/2, 3): 305, 1896 (Stephani 1896a).
- ** *Plagiochila crozetensis* Kaal., *Nyt Mag. Naturvidensk.* 49 (2/3): 92, 1911 (Kaalaas 1911).
- *** *Plagiochila deltoidea* Lindenb., *Sp. Hepat. (Lindenberg)* 5: 132, 1843 (Lindenberg 1843).
- ** *Plagiochila deltoidea* var. *densa* J.J.Engel et G.L.Merr., *Nova Hedwigia* 91 (3/4): 506, 2010 (Engel and Smith Merrill 2010).
- ** *Plagiochila dura* De Not., *Mem. Reale Accad. Sci. Torino (ser. 2)* 16: 214, 1857 (De Notaris 1857).
- ** *Plagiochila heterodonta* (Hook.f. et Taylor) Gottsche, Lindenb. et Nees, *Syn. Hepat.* 5: 638, 1847 (Gottsche et al. 1847). Bas.: *Jungermannia heterodonta* Hook.f. et Taylor, *London J. Bot.* 3: 460, 1844 (Hooker and Taylor 1844b).
- *** *Plagiochila ramosissima* (Hook.) Lindenb., *Sp. Hepat. (Lindenberg)* 2–4: 87, 1840 (Lindenberg 1840). Bas.: *Jungermannia ramosissima* Hook., *Musci Exot.* 1: tab. 92, 1818 (Hooker 1818).
- *** **sect. *Duseniae* Carl**, *Ann. Bryol., Suppl.* 2: 126, 1931 (Carl 1931b).
- ** *Plagiochila dusenii* Steph., *Bull. Herb. Boissier (sér. 2)* 4 (10): 979 (475), 1904 (Stephani 1904a).
- ** *Plagiochila elata* Taylor, *London J. Bot.* 5: 259, 1846 (Taylor 1846a).

- ** *Plagiochila lechleri* Gottsche, Ann. Sci. Nat. Bot. (sér. 4) 8: 325, 1857 (Gottsche 1857).
- ** *Plagiochila validissima* Steph., Biblioth. Bot. 87 (2): 214, 1916 (Stephani 1916a).
- * **sect. *Flexicaules* Carl**, Ann. Bryol., Suppl. 2: 127, 1931 (Carl 1931b).
- ** *Plagiochila flexicaulis* Mont., Syn. Hepat. 5: 629, 1847 (Gottsche et al. 1847).
- *** **sect. *Fruticosae* Inoue**, Gen. Plagiochila SE Asia: 50, 1984 (Inoue 1984b).
- *** *Plagiochila assamica* Steph., Sp. Hepat. (Stephani) 6: 125, 1917 (Stephani 1917a).
- ** *Plagiochila benitoi* Inoue ex Piippo, J. Hattori Bot. Lab. 72: 122, 1992 (Piippo and Tan 1992).
- *** *Plagiochila frondescens* (Nees) Lindenb., Sp. Hepat. (Lindenberg) 2-4: 52, 1840 (Lindenberg 1840). Bas.: *Jungermannia frondescens* Nees, Linnaea 6 (4): 610, 1831 (Nees 1831).
- *** *Plagiochila fruticosa* Mitt., J. Proc. Linn. Soc., Bot. 5 (18): 94, 1860 [1861] (Mitten 1860c).
- ** *Plagiochila mauiensis* Steph., Sp. Hepat. (Stephani) 6: 184, 1921 (Stephani 1921).
- *** *Plagiochila pulcherrima* Horik., J. Sci. Hiroshima Univ., Ser. B, Div. 2, Bot. 1: 63, 1931 (Horikawa 1931a).
- ** *Plagiochila tamiensis* Steph., Sp. Hepat. (Stephani) 6: 235, 1921 (Stephani 1921).
- *** **sect. *Fuscoluteae* Carl**, Ann. Bryol., Suppl. 2: 46, 1931 (Carl 1931b).
- *** *Plagiochila aerea* Taylor, London J. Bot. 5: 263, 1846 (Taylor 1846a).
- *** *Plagiochila dependula* Taylor, London J. Bot. 5: 265, 1846 (Taylor 1846a).
- *** *Plagiochila fuscolutea* Taylor, London J. Bot. 5: 263, 1846 (Taylor 1846a).
- ** *Plagiochila heterophylla* Lindenb., Nov. Stirp. Pug. 10: 2, 1857 (Lehmann 1857).
- ** *Plagiochila heterophylla* var. *beauverdii* (Steph.) Heinrichs, Bryophyt. Biblioth. 58: 148, 2002 (Heinrichs 2002). Bas.: *Plagiochila beauverdii* Steph., Biblioth. Bot. 87 (2): 191, 1916 (Stephani 1916a).
- *** *Plagiochila longiramea* Steph., Biblioth. Bot. 87 (2): 204, 1916 (Stephani 1916a).
- *** *Plagiochila paraphyllina* Herzog, Hedwigia 74 (2): 89, 1934 (Herzog 1934a).
- *** *Plagiochila rudischusteri* H. Rob., Beih. Nova Hedwigia 90: 199, 1988 (Robinson 1988).
- *** *Plagiochila subbidentata* Taylor, Ann. Mag. Nat. Hist. 20 (135): 381, 1847 (Taylor 1847a).
- *** *Plagiochila tabinensis* Steph., Bull. Herb. Boissier (sér. 2) 2 (10): 862 (231), 1902 (Stephani 1902g).
- *** **sect. *Glaucescentes* Carl**, Ann. Bryol., Suppl. 2: 70, 1931 (Carl 1931b).
- *** *Plagiochila buchtiniana* Steph., Sp. Hepat. (Stephani) 6: 135, 1918 (Stephani 1918).
- *** *Plagiochila diversifolia* Lindenb. et Gottsche, Syn. Hepat. 5: 640, 1847 (Gottsche et al. 1847).
- *** *Plagiochila longispina* Lindenb. et Gottsche, Syn. Hepat. 5: 642, 1847 (Gottsche et al. 1847).

- *** **sect. *Hylacoetes* Carl**, Ann. Bryol., Suppl. 2: 50, 1931 (Carl 1931b).
- *** *Plagiochila amicta* Steph., Bull. Herb. Boissier (sér. 2) 5 (9): 895 (561), 1905 (Stephani 1905g).
- *** *Plagiochila boryana* Gottsche, Bull. Soc. Roy. Bot. Belgique 31: 118, 1892 (Stephani 1892c).
- *** *Plagiochila breuteliana* Lindenb., Sp. Hepat. (Lindenberg) 5: 150, 1843 (Lindenberg 1843).
- *** *Plagiochila canelensis* Steph., Bull. Herb. Boissier (sér. 2) 5 (10): 926 (576), 1905 (Stephani 1905f).
- *** *Plagiochila cucullifolia* J.B.Jack et Steph., Hedwigia 31 (1): 24, 1892 (Jack and Stephani 1892).
- *** *Plagiochila cucullifolia* var. *anomala* Heinrichs et Gradst., Pl. Syst. Evol. 242 (1/4): 208, 2003 (Heinrichs et al. 2003).
- *** *Plagiochila dimorpha* Lindenb. et Gottsche, Syn. Hepat. 5: 627, 1847 (Gottsche et al. 1847).
- *** *Plagiochila dominicensis* Taylor, London J. Bot. 5: 270, 1846 (Taylor 1846a).
- *** *Plagiochila ecuadorica* (Inoue) L.Söderstr., Phytotaxa 208 (1): 84, 2015 (Söderström et al. 2015b). Bas.: *Steereoichila ecuadorica* Inoue, Mem. New York Bot. Gard. 45: 279, 1987 (Inoue 1987a).
- *** *Plagiochila ensiformis* Taylor, London J. Bot. 5: 265, 1846 (Taylor 1846a).
- *** *Plagiochila flabelliflora* Steph., Bull. Herb. Boissier (sér. 2) 2 (10): 880 (249), 1902 (Stephani 1902g).
- ** *Plagiochila guevarii* H.Rob., Bryologist 70 (1): 48, 1967 (Robinson 1967).
- ** *Plagiochila husnotii* Steph., Bull. Herb. Boissier (sér. 2) 5 (2): 178 (506), 1905 (Stephani 1905d).
- *** *Plagiochila macrostachya* Lindenb., Sp. Hepat. (Lindenberg) 2-4: 75, 1840 (Lindenberg 1840).
- *** *Plagiochila patriciae* Heinrichs et H.Anton, Bryophyt. Biblioth. 58: 107, 2002 (Heinrichs 2002).
- *** *Plagiochila superba* (Nees ex Spreng.) Mont. et Nees, Voy. Amér. Mérid., Bot. 7 (2): 81, 1839 (Montagne 1839a). Bas.: *Jungermannia superba* Nees ex Spreng. Syst. Veg. (ed. 16) [Sprengel] 4 (2): 326, 1827 (Sprengel 1827b).
- *** *Plagiochila superba* var. *macrotricha* (Spruce) Heinrichs, Bryophyt. Biblioth. 58: 114, 2002 (Heinrichs 2002). Bas.: *Plagiochila macrotricha* Spruce, Trans. & Proc. Bot. Soc. Edinburgh 15: 476, 1885 (Spruce 1885).
- *** *Plagiochila turgida* Herzog, Hedwigia 72 (6): 196, 1932 (Herzog 1932c).
- *** *Plagiochila vincentina* Lindenb., Sp. Hepat. (Lindenberg) 2-4: 39, 1840 (Lindenberg 1840).
- * **sect. *Jacquinotiae* Hässel**, Nova Hedwigia 89 (1/2): 85, 2009 (Hässel 2009).
- ** *Plagiochila jacquinotii* Mont., Voy. Pole Sud, Bot. 1: 273, 1845 (Montagne 1845c).
- * **sect. *Kaalaasiae* Carl**, Ann. Bryol., Suppl. 2: 103, 1931 (Carl 1931b).
- ** *Plagiochila amboynensis* Taylor, London J. Bot. 5: 260, 1846 (Taylor 1846a).

- * **sect. *Longiflorae* Carl**, Ann. Bryol., Suppl. 2: 130, 1931 (Carl 1931b).
- ** *Plagiochila longiflora* Mont., Syn. Hepat. 5: 651, 1847 (Gottsche et al. 1847).

- * **sect. *Oligodontes* Carl**, Ann. Bryol., Suppl. 2: 130, 1931 (Carl 1931b).
- ** *Plagiochila lophocoleoides* Mont., Ann. Sci. Nat. Bot. (sér. 3) 4: 348, 1845 (Montagne 1845b).

- *** **sect. *Peculiares* Schiffn.**, Hep. Fl. Buitenzorg: 107, 1900 (Schiffner 1900a).
- ** *Plagiochila aspericaulis* Grolle et M.L.So, Syst. Bot. 24 (3): 307, 1999 (Grolle and So 1999b).
- ** *Plagiochila caulimammillosa* Grolle et M.L.So, J. Bryol. 20 (1): 42, 1998 (Grolle and So 1998c).
- *** *Plagiochila devexa* Steph., Bull. Herb. Boissier (sér. 2) 3 (4): 340 (324), 1903 (Stephani 1903c). *Nom. nov. pro Plagiochila deflexa* Mitt., J. Proc. Linn. Soc., Bot. 5 (18): 97, 1860 [1861] (Mitten 1860c), *nom. illeg.*
- *** *Plagiochila durelii* Schiffn., Österr. Bot. Z. 49 (4): 131, 1899 (Schiffner 1899b).
- ** *Plagiochila durelii* subsp. *guizhouensis* Grolle et M.L.So, Syst. Bot. 24 (3): 304, 1999 (Grolle and So 1999b).
- ** *Plagiochila grollei* Inoue, Bull. Natl. Sci. Mus. Tokyo (n.ser.) 8 (3): 384, 1965 (Inoue 1965a).
- ** *Plagiochila hoei* Inoue, J. Hattori Bot. Lab. 40: 421, 1976 (Inoue 1976b).
- ** *Plagiochila hyalodermica* Grolle et M.L.So, Bryologist 100 (4): 470, 1997 (Grolle and So 1997b).
- ** *Plagiochila magna* Inoue, J. Hattori Bot. Lab. 28: 216, 1965 (Inoue 1965c).
- ** *Plagiochila paraphyllosa* Grolle et M.L.So, Syst. Bot. 24 (3): 298, 1999 (Grolle and So 1999b).
- ** *Plagiochila peculiaris* Schiffn., Hep. Fl. Buitenzorg: 157, 1900 (Schiffner 1900a).
- *** *Plagiochila perserrata* Herzog, Symb. Sin. 5: 19, 1930 (Nicholson et al. 1930).
- ** *Plagiochila philippinensis* Steph., Bull. Herb. Boissier (sér. 2) 3 (6): 526 (330), 1903 (Stephani 1903d).
- *** *Plagiochila pseudopoeltii* Inoue, Bull. Natl. Sci. Mus. Tokyo (n.ser.) 8 (3): 382, 1965 (Inoue 1965a).
- *** *Plagiochila renitens* (Nees) Lindenb., Sp. Hepat. (Lindenberg) 2-4: 90, 1840 (Lindenberg 1840). Bas.: *Jungermannia renitens* Nees, Enum. Pl. Crypt. Javae: 76, 1830 (Nees 1830).
- ** *Plagiochila semidecurrans* (Lehm. et Lindenb.) Lindenb., Sp. Hepat. (Lindenberg) 5: 142, 1843 (Lindenberg 1843). Bas.: *Jungermannia semidecurrans* Lehm. et Lindenb., Nov. Stirp. Pug. 4: 21, 1832 (Lehmann 1832).
- ** *Plagiochila semidecurrans* var. *alaskana* (A.Evans) Inoue, J. Hattori Bot. Lab. 28: 216, 1965 (Inoue 1965c). Bas.: *Plagiochila alaskana* A.Evans, Bull. Torrey Bot. Club 41 (12): 590, 1914 [1915] (Evans 1914a).
- *** *Plagiochila vexans* Schiffn. ex Steph., Sp. Hepat. (Stephani) 6: 237, 1921 (Stephani 1921).

- *** *Plagiochila zangii* Grolle et M.L.So, *Bryologist* 100 (4): 467, 1997 (Grolle and So 1997b).
- *** *Plagiochila zonata* Steph., *Mém. Soc. Nat. Sci. Nat. Math. Cherbourg* 29: 225, 1894 (Stephani 1894b).
- *** **sect. *Plagiochila***
- ** *Plagiochila arctica* Bryhn et Kaal., *Rep. Second Norweg. Arctic Exped.* 11: 41, 1906 (Bryhn 1906).
- * *Plagiochila arctica* var. *intermedia* R.M.Schust., *Amer. Midl. Naturalist* 62 (1): 152, 1959 (Schuster 1959a).
- *** *Plagiochila asplenioides* (L.) Dumort., *Recueil Observ. Jungerm.*: 14, 1835 (Dumortier 1835). Bas.: *Jungermannia asplenioides* L., *Sp. Pl.* 1: 1131, 1753 (Linnaeus 1753).
- *** *Plagiochila bischleriana* Grolle et M.L.So, *Cryptog. Bryol. Lichénol.* 18 (3): 191, 1997 (Grolle and So 1997a).
- ** *Plagiochila britannica* Paton, *J. Bryol.* 10 (3): 245, 1979 (Paton 1979b).
- *** *Plagiochila chinensis* Steph., *Mém. Soc. Nat. Sci. Nat. Math. Cherbourg* 29: 223, 1894 (Stephani 1894b).
- *** *Plagiochila circumdentata* Steph., *Bull. Herb. Boissier (sér. 2)* 4 (8): 778 (456), 1904 (Stephani 1904c).
- ** *Plagiochila circumdentata* var. *carinata* J.J.Engel et G.L.Merr., *Nova Hedwigia* 91 (3/4): 511, 2010 (Engel and Smith Merrill 2010).
- ** *Plagiochila circumserrata* Inoue et Grolle, *Bull. Natl. Sci. Mus. Tokyo, B* 5 (1): 27, 1979 (Inoue 1979c).
- ** *Plagiochila columbiana* A.Evans, *Bot. Gaz.* 21 (4): 189, 1896 (Evans 1896).
- *** *Plagiochila delavayi* Steph., *Mém. Soc. Nat. Sci. Nat. Math. Cherbourg* 29: 224, 1894 (Stephani 1894b).
- *** *Plagiochila elegans* Mitt., *J. Proc. Linn. Soc., Bot.* 5 (18): 97, 1860 [1861] (Mitten 1860c).
- *** *Plagiochila hakkodensis* Steph., *Bull. Herb. Boissier* 5 (2): 103, 1897 (Stephani 1897b).
- ** *Plagiochila korthalsiana* Molk., *Ned. Kruidk. Arch.* 3: 416, 1854 [1855] (Sande Lacoste 1854).
- ** *Plagiochila loriana* Steph., *Bull. Herb. Boissier (sér. 2)* 3 (7): 608 (354), 1903 (Stephani 1903e).
- ** *Plagiochila microdentata* M.L.So, *New Zealand J. Bot.* 38 (3): 426, 2000 (So 2000b).
- ** *Plagiochila mundaliensis* Steph., *Bull. Herb. Boissier (sér. 2)* 3 (6): 536 (340), 1903 (Stephani 1903d).
- ** *Plagiochila orbicularis* (S.Hatt.) S.Hatt., *J. Hattori Bot. Lab.* 3: 26, 1948 [1950] (Hattori 1948b). Bas.: *Plagiochila ovalifolia* var. *orbicularis* S.Hatt., *Bull. Tokyo Sci. Mus.* 11: 61, 1944 (Hattori 1944d).
- *** *Plagiochila ovalifolia* Mitt., *Trans. Linn. Soc. London, Bot.* 3 (3): 193, 1891 (Mitten 1891).
- *** *Plagiochila porelloides* (Torr. ex Nees) Lindenb., *Sp. Hepat. (Lindenberg)* 2–4: 61, 1840 (Lindenberg 1840). Bas.: *Jungermannia porelloides* Torr. ex Nees, *Naturgesch. Eur. Leberm.* 1: 170, 1833 (Nees 1833c).

- ** *Plagiochila porelloides* var. *norvegica* (H.H.Blom et Holten) Schumacker et Váňa, Identif. keys liverw. hornw. Europe: 131, 2005 (Schumacker and Váňa 2005). Bas.: *Plagiochila norvegica* H.H.Blom et Holten, Lindbergia 14 (1): 8, 1988 (Blom and Holten 1988).
- ** *Plagiochila porelloides* var. *subarctica* (Jørg.) Lammes, Fl. Fenn. 6: 54, 1977 (Koponen et al. 1977). Bas.: *Plagiochila asplenioides* var. *subarctica* Jørg., Bergens Mus. Skr. (n.ser.) 16: 173, 1934 (Jørgensen 1934).
- ** *Plagiochila schofieldiana* Inoue, Bull. Natl. Sci. Mus. Tokyo (n.ser.) 15 (1): 183, 1972 (Inoue 1972c).
- *** *Plagiochila secretifolia* Mitt., J. Proc. Linn. Soc., Bot. 5 (18): 98, 1860 [1861] (Mitten 1860c).
- ** *Plagiochila spinosa* M.L.So, New Zealand J. Bot. 38 (3): 428, 2000 (So 2000b).
- ** *Plagiochila sumatrana* Schiffn., Denkschr. Kaiserl. Akad. Wiss., Math.-Naturwiss. Kl. 70: 183, 1900 [1901] (Schiffner 1900c).
- ** *Plagiochila taiwanensis* Inoue, Bull. Natl. Sci. Mus. Tokyo, B 8 (4): 136, 1982 (Inoue 1982).
- *** *Plagiochila trapezoidea* Lindenb., Sp. Hapat. (Lindenberg) 2-4: 112, 1840 (Lindenberg 1840). *Nom. nov. pro Jungermannia asplenioides* β *australis* Nees, Enum. Pl. Crypt. Javae: 73, 1830 (Nees 1830).
- ** *Plagiochila uniformis* Mitt., J. Proc. Linn. Soc., Bot. 5 (18): 98, 1860 [1861] (Mitten 1860c).
- ** **sect. *Poeltiae*** Inoue, Bull. Natl. Sci. Mus. Tokyo (n.ser.) 8 (3): 394, 1965 (Inoue 1965a).
- *** *Plagiochila biondiana* C.Massal., Hapat. Shen-si: 15, 1897 (Massalongo 1897).
- *** *Plagiochila carringtonii* (Balf. ex Carrington) Grolle, Trans. Brit. Bryol. Soc. 4 (4): 656, 1964 (Grolle 1964i). Bas.: *Adelanthus carringtonii* Balf. ex Carrington, Trans. Bot. Soc. Edinburgh 10: 380, 1870 (Carrington 1870).
- ** *Plagiochila carringtonii* subsp. *lobuchensis* Grolle, Trans. Brit. Bryol. Soc. 4 (4): 660, 1964 (Grolle 1964i).
- *** *Plagiochila duthiana* Steph., Bull. Herb. Boissier (sér. 2) 3 (6): 527 (331), 1903 (Stephani 1903d).
- ** *Plagiochila erlangensis* M.L.So, Haussknechtia, Beih. 9: 350, 1999 (So 1999).
- *** *Plagiochila poeltii* Inoue et Grolle, Trans. Brit. Bryol. Soc. 4 (4): 656, 1964 (Grolle 1964i).
- *** *Plagiochila recurvata* (W.E.Nicholson) Grolle, Trans. Brit. Bryol. Soc. 4 (4): 654, 1964 (Grolle 1964i). Bas.: *Jamesoniella carringtonii* var. *recurvata* W.E.Nicholson, Symb. Sin. 5: 13, 1930 (Nicholson et al. 1930).
- *** *Plagiochila retusa* Mitt., J. Proc. Linn. Soc., Bot. 5 (18): 96, 1860 [1861] (Mitten 1860c).
- *** *Plagiochila wallichiana* Steph., Bull. Herb. Boissier (sér. 2) 3 (6): 523 (327), 1903 (Stephani 1903d).
- ** *Plagiochila wangii* Inoue, J. Jap. Bot. 37 (6): 187, 1962 (Inoue 1962c).
- ** *Plagiochila yulungensis* Piippo, Ann. Bot. Fenn. 34 (4): 283, 1997 (Piippo 1997).

- *** **sect. *Rutilantes* Carl**, Ann. Bryol., Suppl. 2: 83, 1931 (Carl 1931b).
- *** *Plagiochila bicuspidata* Gottsche, Mexik. Leverm.: 43, 1863 (Gottsche 1863).
- ** *Plagiochila caduciloba* H.L.Blomq., Bryologist 42 (5): 114, 1939 (Blomquist 1939).
- ** *Plagiochila chimborazensis* Spruce, Trans. & Proc. Bot. Soc. Edinburgh 15: 469, 1885 (Spruce 1885).
- * *Plagiochila cuneata* Lindenb. et Gottsche, Syn. Hepat. 5: 632, 1847 (Gottsche et al. 1847).¹⁶³
- *** *Plagiochila debilis* Mitt., J. Proc. Linn. Soc., Bot. 5 (18): 97, 1860 [1861] (Mitten 1860c).
- *** *Plagiochila deflexa* Mont. et Gottsche, Ann. Sci. Nat. Bot. (sér. 4) 6: 192, 1856 (Montagne 1856a).
- *** *Plagiochila defolians* Grolle et M.L.So, Syst. Bot. 23 (4): 459, 1998 [1999] (Grolle and So 1998b).
- *** *Plagiochila exigua* (Taylor) Taylor, London J. Bot. 5: 264, 1846 (Taylor 1846a). Bas.: *Jungermannia exigua* Taylor, Trans. Bot. Soc. Edinburgh 1: 179, 1844 (Taylor 1844b).
- ** *Plagiochila fracta* Pócs, Phytotaxa 195 (2): 183, 2015 (Pócs 2015a).
- *** *Plagiochila ghatiensis* Steph., Sp. Hepat. (Stephani) 6: 159, 1918 (Stephani 1918).
- *** *Plagiochila grossa* Grolle et M.L.So, Syst. Bot. 23 (4): 461, 1998 [1999] (Grolle and So 1998b).
- *** *Plagiochila gymnocalycina* (Lehm. et Lindenb.) Mont. et Nees, Voy. Amér. Mérid., Bot. 7 (2): 81, 1839 (Montagne 1839a). Bas.: *Jungermannia gymnocalycina* Lehm. et Lindenb., Nov. Stirp. Pug. 5: 28, 1833 (Lehmann 1833).
- ** *Plagiochila gymnocalycina* var. *surinamensis* (Molk.) Heinrichs et D.S.Rycroft, J. Hattori Bot. Lab. 100: 139, 2006 (Heinrichs et al. 2006). Bas.: *Plagiochila surinamensis* Molk., Syn. hepat. jav.: 103, 1856 [1857] (Sande Lacoste 1856b).
- ** *Plagiochila loriloba* Herzog ex Carl, Ann. Bryol., Suppl. 2: 47, 1931 (Carl 1931b).
- ** *Plagiochila maderensis* Gottsche ex Steph., Bull. Herb. Boissier (sér. 2) 4 (4): 350 (426), 1904 (Stephani 1904e).
- ** *Plagiochila oresitropha* Spruce, Trans. & Proc. Bot. Soc. Edinburgh 15: 467, 1885 (Spruce 1885).
- *** *Plagiochila pectinata* Lindenb., Sp. Hepat. (Lindenberg) 1: 14, 1839 (Lindenberg 1839).
- *** *Plagiochila rutilans* Lindenb., Sp. Hepat. (Lindenberg) 2-4: 47, 1840 (Lindenberg 1840).
- *** *Plagiochila rutilans* var. *moritziana* (Lindenb. et Gottsche) Heinrichs, Bryologist 105 (2): 197, 2002 (Heinrichs et al. 2002). Bas.: *Plagiochila moritziana* Lindenb. et Gottsche, Linnaea 20 (3): 323, 1847 (Hampe 1847).
- *** *Plagiochila rutilans* var. *standleyi* (Herzog ex Carl) Heinrichs et D.S.Rycroft, Bryologist 104 (3): 357, 2001 (Heinrichs et al. 2001). Bas.: *Plagiochila standleyi* Herzog ex Carl, Ann. Bryol., Suppl. 2: 80, 1931 (Carl 1931b).

163 *Plagiochila cuneata* is conspecific with *Plagiochila bursata* in Inoue (1980), but accepted by Grolle and Heinrichs (1999).

- * *Plagiochila steyermarkii* H. Rob., Bryologist 68 (1): 93, 1965 (Robinson 1965).¹⁶⁴
- *** *Plagiochila trichostoma* Gottsche, Ann. Sci. Nat. Bot. (sér. 5) 1: 113, 1864 (Gottsche 1864).
- * **sect. *Strombifoliae* Inoue et R.M.Schust.**, J. Hattori Bot. Lab. 34: 130, 1971 (Inoue and Schuster 1971).
- ** *Plagiochila strombifolia* Taylor, Nov. Stirp. Pug. 8: 5, 1844 (Lehmann 1844).
- *** **sect. *Tayloriae* Carl**, Ann. Bryol., Suppl. 2: 140, 1931 (Carl 1931b).
- *** *Plagiochila annotina* Lindenb., Sp. Hepat. (Lindenberg) 1: 34, 1839 (Lindenberg 1839).
- *** *Plagiochila baylisii* Inoue et R.M.Schust., J. Hattori Bot. Lab. 34: 150, 1971 (Inoue and Schuster 1971).
- *** *Plagiochila bazzanioides* J.J.Engel et G.L.Merr., Novon 9 (1): 29, 1999 (Engel and Smith Merrill 1999b).
- *** *Plagiochila chenii* Grolle et M.L.So, Syst. Bot. 25 (1): 6, 2000 (Grolle and So 2000).
- *** *Plagiochila circinalis* (Lehm. et Lindenb.) Lehm., Sp. Hepat. (Lindenberg) 5: 124, 1843 (Lindenberg 1843). Bas.: *Jungermannia circinalis* Lehm. et Lindenb., Nov. Stirp. Pug. 4: 64, 1832 (Lehmann 1832).
- ** *Plagiochila circinalis* var. *hemicardia* (Hook.f. et Taylor) J.J.Engel et G.L.Merr., Nova Hedwigia 91 (3/4): 512, 2010 (Engel and Smith Merrill 2010). Bas.: *Jungermannia hemicardia* Hook.f. et Taylor, London J. Bot. 3: 371, 1844 (Hooker and Taylor 1844a).
- *** *Plagiochila colensoi* Hook.f. et Taylor, London J. Bot. 5: 269, 1846 (Taylor 1846a).
- ** *Plagiochila colensoi* var. *quinquespina* (Steph.) J.J.Engel et G.L.Merr., Nova Hedwigia 91 (3/4): 504, 2010 (Engel and Smith Merrill 2010). Bas.: *Plagiochila quinquespina* Steph., Bull. Herb. Boissier (sér. 2) 3 (4): 328 (312), 1903 (Stephani 1903c).
- ** *Plagiochila corticola* Steph., Mém. Soc. Nat. Sci. Nat. Math. Cherbourg 29: 224, 1894 (Stephani 1894b).
- ** *Plagiochila fasciculata* Lindenb., Sp. Hepat. (Lindenberg) 1: 7, 1839 (Lindenberg 1839).
- *** *Plagiochila fusca* Sande Lac., Ned. Kruidk. Arch. 3: 417, 1854 [1855] (Sande Lacoste 1854).
- ** *Plagiochila fuscella* (Hook.f. et Taylor) Gottsche, Lindenb. et Nees, Syn. Hepat. 5: 648, 1847 (Gottsche et al. 1847). Bas.: *Jungermannia fuscella* Hook.f. et Taylor, London J. Bot. 3: 373, 1844 (Hooker and Taylor 1844a).
- ** *Plagiochila fuscella* var. *novae-zelandiae* (E.A.Hodgs.) J.J.Engel et G.L.Merr., Nova Hedwigia 89 (3/4): 294, 2009 (Engel and Smith Merrill 2009). Bas.: *Plagiochila retrospectans* var. *novae-zelandiae* E.A.Hodgs., Trans. & Proc. Roy. Soc. New Zealand 73 (4): 293, 1944 (Hodgson 1944).

¹⁶⁴ *Plagiochila steyermarkii* is conspecific with *Plagiochila aerea* in Inoue in Gradstein and Hekking (1979), but this was rejected by Grolle and Heinrichs (1999).

- *** *Plagiochila gracilis* Lindenb. et Gottsche, Syn. Hepat. 5: 632, 1847 (Gottsche et al. 1847).
- *** *Plagiochila gymnoclada* Sande Lac., *Plagiochila Sandei*: 6, 1856 (Sande Lacoste 1856c).
- *** *Plagiochila himalayana* Schiffn., Österr. Bot. Z. 49 (4): 131, 1899 (Schiffner 1899b).
- ** *Plagiochila incurvicolla* (Hook.f. et Taylor) Gottsche, Lindenb. et Nees, Syn. Hepat. 5: 651, 1847 (Gottsche et al. 1847). Bas.: *Jungermannia incurvicolla* Hook.f. et Taylor, London J. Bot. 3: 564, 1844 (Hooker and Taylor 1844d).
- ** *Plagiochila incurvicolla* var. *lonchoscypha* (Herzog) J.J.Engel et G.L.Merr., Nova Hedwigia 91 (3/4): 505, 2010 (Engel and Smith Merrill 2010). Bas.: *Plagiochila lonchoscypha* Herzog, Trans. & Proc. Roy. Soc. New Zealand 68 (1): 42, 1938 (Herzog 1938c).
- ** *Plagiochila microdictyon* Mitt., Bot. antarct. voy. II (Fl. Nov.-Zel. 2): 131, 1854 (Mitten 1854).
- ** *Plagiochila monospiris* Inoue et Grolle, J. Hattori Bot. Lab. 36: 489, 1972 [1973] (Inoue 1972b).
- *** *Plagiochila nitens* Inoue, Willdenowia 18 (2): 561, 1989 (Inoue 1989b).
- ** *Plagiochila pseudocapillaris* Inoue, Bull. Natl. Sci. Mus. Tokyo (n.ser.) 11 (3): 302, 1968 (Inoue 1968a).
- *** *Plagiochila pseudofirma* Herzog, Symb. Sin. 5: 17, 1930 (Nicholson et al. 1930).
- ** *Plagiochila radiculosa* Mitt., Bot. antarct. voy. II (Fl. Nov.-Zel. 2): 132, 1854 (Mitten 1854).
- ** *Plagiochila spatulifolia* Mitt., J. Proc. Linn. Soc., Bot. 5 (18): 96, 1860 [1861] (Mitten 1860c).
- *** *Plagiochila stephensoniana* Mitt., Bot. antarct. voy. II (Fl. Nov.-Zel. 2): 133, 1854 (Mitten 1854).
- *** **sect. *Trabeculatae* S.Hatt. ex Inoue**, J. Hattori Bot. Lab. 20: 75, 1958 (Inoue 1958).
- ** *Plagiochila austinii* A.Evans, Rhodora 16 (184): 68, 1914 (Evans 1914b).
- *** *Plagiochila flexuosa* Mitt., J. Proc. Linn. Soc., Bot. 5 (18): 94, 1860 [1861] (Mitten 1860c).
- ** *Plagiochila sullivantii* Gottsche, Bot. Gaz. 21 (4): 191, 1896 (Evans 1896).
- ** *Plagiochila sullivantii* var. *spinigera* R.M.Schust., Amer. Midl. Naturalist 62 (2): 323, 1959 (Schuster 1959b).
- *** *Plagiochila trabeculata* Steph., Bull. Herb. Boissier (sér. 2) 3 (2): 103 (283), 1903 (Stephani 1903b).
- *** **sect. *Vagae* Lindenb.**, Monogr. hep. gen. Plagiochilae: xv, 1844 (Lindenberg 1844).
- *** *Plagiochila abietina* (Nees) Mont. et Nees, Voy. Amér. Mérid., Bot. 7 (2): 81, 1839 (Montagne 1839a). Bas.: *Jungermannia abietina* Nees, Enum. Pl. Crypt. Javae: 76, 1830 (Nees 1830).
- ** *Plagiochila abrupta* Lehm. et Lindenb., Sp. Hepat. (Lindenberg) 2-4: 106, 1840 (Lindenberg 1840).

- ** *Plagiochila aequatorialis* Gottsche, Ann. Sci. Nat. Bot. (sér. 4) 8: 334, 1857 (Gottsche 1857).
- *** *Plagiochila africana* Steph., Bull. Herb. Boissier (sér. 2) 2 (12): 973 (263), 1902 (Stephani 1902h).
- *** *Plagiochila akiyamae* Inoue, Bull. Natl. Sci. Mus. Tokyo, B 12 (3): 73, 1986 (Inoue 1986).
- *** *Plagiochila angusta* Lindenb., Sp. Hepat. (Lindenberg) 5: 148, 1843 (Lindenberg 1843).
- *** *Plagiochila angustitexta* Steph., Bull. Herb. Boissier (sér. 2) 2 (12): 977 (267), 1902 (Stephani 1902h).
- *** *Plagiochila arbuscula* (Brid. ex Lehm. et Lindenb.) Lindenb., Sp. Hepat. (Lindenberg) 1: 23, 1839 (Lindenberg 1839). Bas.: *Jungermannia arbuscula* Brid. ex Lehm. et Lindenb., Nov. Stirp. Pug. 4: 63, 1832 (Lehmann 1832).
- ** *Plagiochila arbuscula* var. *rekohuensis* J.J.Engel et G.L.Merr., Nova Hedwigia 91 (3/4): 509, 2010 (Engel and Smith Merrill 2010).
- * *Plagiochila aspera* Steph., Sp. Hepat. (Stephani) 6: 125, 1917 (Stephani 1917a).¹⁶⁵
- ** *Plagiochila aspleniformis* R.M.Schust., Amer. Midl. Naturalist 63 (1): 51, 1960 (Schuster 1960c).
- ** *Plagiochila beddomei* Steph., Bull. Herb. Boissier (sér. 2) 3 (10): 876 (361), 1903 (Stephani 1903f).
- *** *Plagiochila boivinii* Steph., Bull. Herb. Boissier (sér. 2) 2 (12): 987 (277), 1902 (Stephani 1902h).
- *** *Plagiochila bryopteroides* Spruce, Trans. & Proc. Bot. Soc. Edinburgh 15: 499, 1885 (Spruce 1885).
- ** *Plagiochila contigua* Gottsche, Mexik. Leverm.: 30, 1863 (Gottsche 1863).
- *** *Plagiochila corrugata* (Nees) Nees et Mont., Ann. Sci. Nat. Bot. (sér. 2) 5: 52, 1836 (Nees and Montagne 1836). Bas.: *Jungermannia corrugata* Nees, Fl. Bras. (Martius) 1 (1): 378, 1833 (Nees 1833a).
- *** *Plagiochila cuspidata* Steph., Sp. Hepat. (Stephani) 6: 144, 1918 (Stephani 1918).
- ** *Plagiochila cymata* Inoue et Grolle, Bull. Natl. Sci. Mus. Tokyo, B 1 (3): 95, 1975 (Inoue 1975a).
- ** *Plagiochila deflexirama* Taylor, London J. Bot. 5: 262, 1846 (Taylor 1846a).
- *** *Plagiochila dichotoma* (P.Beauv.) Nees et Mont., Ann. Sci. Nat. Bot. (sér. 2) 5: 53, 1836 (Nees and Montagne 1836). Bas.: *Carpolepidum dichotomum* P.Beauv., Fl. Oware 1 (3): 23, 1805 (Palisot de Beauvois 1805b).
- * *Plagiochila dichotoma* var. *fluitans* Spruce, Trans. & Proc. Bot. Soc. Edinburgh 15: 490, 1885 (Spruce 1885).
- *** *Plagiochila dissecta* Steph., Bull. Herb. Boissier (sér. 2) 3 (7): 600 (346), 1903 (Stephani 1903e).

¹⁶⁵ *Plagiochila aspera* is conspecific with *Plagiochila trigona* Steph. (= *Plagiochila metcalfei*) in Inoue (1970b), but it was accepted by So (2000a, 2001a).

- *** *Plagiochila disticha* (Lehm. et Lindenb.) Lindenb., Sp. Hepat. (Lindenberg) 2-4: 107, 1840 (Lindenberg 1840). Bas.: *Jungermannia disticha* Lehm. et Lindenb., Nov. Stirp. Pug. 6: 64, 1834 (Lehmann 1834).
- ** *Plagiochila distinctifolia* Lindenb., Sp. Hepat. (Lindenberg) 1: 17, 1839 (Lindenberg 1839).
- *** *Plagiochila divergens* Steph., Hedwigia 30 (6): 268, 1891 (Stephani 1891c).
- *** *Plagiochila drepanophylla* Sande Lac., Syn. hepat. jav.: 103, 1856 [1857] (Sande Lacoste 1856b).
- * *Plagiochila drepanophylla* var. *minor* Gottsche, Abh. Naturwiss. Vereins Bremen 7: 341, 1882 (Gottsche 1882).
- *** *Plagiochila effusa* Steph., Bot. Jahrb. Syst. 20 (3): 310, 1895 (Stephani 1895a).
- * *Plagiochila effusa* var. *decurrens* Steph., Bot. Jahrb. Syst. 20 (3): 310, 1895 (Stephani 1895a).
- *** *Plagiochila ericicola* Steph., Bull. Herb. Boissier (sér. 2) 4 (6): 590 (441), 1904 (Stephani 1904b).
- ** *Plagiochila exinnovata* Steph., Bull. Herb. Boissier (sér. 2) 3 (7): 600 (346), 1903 (Stephani 1903e).
- ** *Plagiochila fastigiata* Lindenb. et Gottsche, Syn. Hepat. 5: 657, 1847 (Gottsche et al. 1847).
- *** *Plagiochila flabellata* Steph., Bot. Jahrb. Syst. 8 (2): 82, 1886 (Stephani 1886d).
- ** *Plagiochila floridana* A.Evans, Bot. Gaz. 21 (4): 190, 1896 (Evans 1896).
- *** *Plagiochila fordiana* Steph., Bull. Herb. Boissier (sér. 2) 3 (2): 104 (284), 1903 (Stephani 1903b).
- ** *Plagiochila francana* Steph., Sp. Hepat. (Stephani) 6: 157, 1918 (Stephani 1918).
- *** *Plagiochila furcifolia* Mitt., Trans. Linn. Soc. London, Bot. 3 (3): 194, 1891 (Mitten 1891).
- *** *Plagiochila fusifera* Taylor, London J. Bot. 5: 268, 1846 (Taylor 1846a).
- *** *Plagiochila hampeana* Gottsche, Bot. Zeitung (Berlin) Beil. 16: 38, 1858 (Gottsche 1858).
- * *Plagiochila heterospina* Steph., J. & Proc. Roy. Soc. New South Wales 48 (1/2): 128, 1914 (Stephani and Watts 1914).
- * *Plagiochila heterostipa* Steph., Hedwigia 31 (3): 129, 1892 (Stephani 1892d).¹⁶⁶
- ** *Plagiochila incerta* Gottsche, Ann. Sci. Nat. Bot. (sér. 4) 8: 324, 1857 (Gottsche 1857).
- *** *Plagiochila indica* Mitt. ex Steph., Bull. Herb. Boissier (sér. 2) 3 (6): 532 (336), 1903 (Stephani 1903d).
- ** *Plagiochila invisita* (R.M.Schust.) R.M.Schust., Hepat. Anthocerotae N. Amer. 4: 513, 1980 (Schuster 1980c). Bas.: *Plagiochila ludoviciana* var. *invisita* R.M.Schust., Amer. Midl. Naturalist 63 (1): 101, 1960 (Schuster 1960c).
- *** *Plagiochila javanica* (Sw.) Nees et Mont., Ann. Sci. Nat. Bot. (sér. 2) 5: 52, 1836 (Nees and Montagne 1836). Bas.: *Jungermannia javanica* Sw., Meth. Musc.: 35, 1781 (Swartz 1781).

166 *Plagiochila heterostipa* is possibly conspecific with *Plagiochila corymbulosa* (Jones 1962).

- *** *Plagiochila junghuhniana* Sande Lac., Ned. Kruidk. Arch. 3: 416, 1854 [1855] (Sande Lacoste 1854).
- *** *Plagiochila khasiana* Mitt., J. Proc. Linn. Soc., Bot. 5 (18): 95, 1860 [1861] (Mitten 1860c).
- ** *Plagiochila kiaeri* Gottsche, Abh. Naturwiss. Vereins Bremen 7: 341, 1882 (Gottsche 1882).
- ** *Plagiochila kiaeri* var. *capensis* (Steph.) M. Wigginton et Grolle, Bryophyt. Biblioth. 50: 182, 1996 (Wigginton and Grolle 1996). Bas.: *Plagiochila capensis* Steph., Bull. Herb. Boissier (sér. 2) 4 (4): 350 (426), 1904 (Stephani 1904e).
- ** *Plagiochila kiaeri* var. *myriocarpa* (Pearson) Pócs, J. E. Afr. Nat. Hist. 96 (1): 38, 2007 (Pócs and Luke 2007). Bas.: *Plagiochila myriocarpa* Pearson, Ark. Bot. 19 (5): 5, 1924 (Pearson 1924b).
- *** *Plagiochila kunmingensis* Piippo, Ann. Bot. Fenn. 34 (4): 281, 1997 (Piippo 1997).
- ** *Plagiochila kurokawae* Inoue, J. Hattori Bot. Lab. 32: 104, 1969 (Inoue 1969).
- *** *Plagiochila laetevirens* Lindenb., Sp. Hepat. (Lindenberg) 2-4: 101, 1840 (Lindenberg 1840).
- ** *Plagiochila lamellistipula* Spruce, Trans. & Proc. Bot. Soc. Edinburgh 15: 491, 1885 (Spruce 1885).
- *** *Plagiochila lastii* Mitt., J. Linn. Soc., Bot. 22 (146): 320, 1886 (Mitten 1886b).
- ** *Plagiochila latifolia* Steph., Bull. Herb. Boissier (sér. 2) 5 (8): 742 (541), 1905 (Stephani 1905i).
- * *Plagiochila loloënsis* Steph., Bull. Herb. Boissier (sér. 2) 4 (2): 166 (418), 1904 (Stephani 1904f).¹⁶⁷
- ** *Plagiochila manillana* Mont. et Gottsche, Ann. Sci. Nat. Bot. (sér. 4) 6: 189, 1856 (Montagne 1856a).
- ** *Plagiochila massalongoana* Schiffn., Hep. Fl. Buitenzorg: 136, 1900 (Schiffner 1900a).
- ** *Plagiochila mastigophoroides* Inoue, J. Hattori Bot. Lab. 32: 99, 1969 (Inoue 1969).
- ** *Plagiochila metcalfei* Steph., Bull. Herb. Boissier (sér. 2) 3 (6): 533 (337), 1903 (Stephani 1903d).
- ** *Plagiochila micropteryx* Gottsche, Ann. Sci. Nat. Bot. (sér. 5) 1: 107, 1864 (Gottsche 1864).
- ** *Plagiochila miradorensis* Gottsche, Mexik. Leverm.: 31, 1863 (Gottsche 1863).
- ** *Plagiochila miradorensis* var. *convoluta* R.M. Schust., Amer. Midl. Naturalist 63 (1): 113, 1960 (Schuster 1960c).
- * *Plagiochila moenkemeyeri* Steph., Bull. Herb. Boissier (sér. 2) 4 (2): 160 (412), 1904 (Stephani 1904f).¹⁶⁸
- *** *Plagiochila montagnei* Nees, Ann. Sci. Nat. Bot. (sér. 2) 5: 53, 1836 (Nees and Montagne 1836).

167 *Plagiochila loloënsis* is probably an entire-leaved form of *Plagiochila moenkemeyeri* (Wigginton and Grolle 1996).

168 *Plagiochila moenkemeyeri* is possibly conspecific with *Plagiochila winteri* (Jones 1962), but he expressed some doubts on the synonymy.

- ** *Plagiochila morobensis* Inoue et Piippo, Ann. Bot. Fenn. 26 (2): 203, 1989 (Piippo 1989b).
- ** *Plagiochila multipinnula* Herzog et S.Hatt., J. Hattori Bot. Lab. 14: 36, 1955 (Herzog and Noguchi 1955).
- *** *Plagiochila neckeroidea* Mitt., Trans. Linn. Soc. London 23 (1): 57, 1860 (Mitten 1860a).
- *** *Plagiochila nepalensis* Lindenb., Sp. Hepat. (Lindenberg) 2–4: 93, 1840 (Lindenberg 1840).
- ** *Plagiochila norfolkiensis* Steph., Bull. Herb. Boissier (sér. 2) 3 (10): 877 (362), 1903 (Stephani 1903f).
- *** *Plagiochila obtusa* Lindenb., Sp. Hepat. (Lindenberg) 2–4: 42, 1840 (Lindenberg 1840).
- * *Plagiochila owaihiensis* Nees et Lindenb., Sp. Hepat. (Lindenberg) 1: 30, 1839 (Lindenberg 1839).¹⁶⁹
- ** *Plagiochila pacifica* Mitt., Fl. vit.: 407, 1871 [1873] (Mitten 1871).
- ** *Plagiochila parallela* Steph., Bull. Herb. Boissier (sér. 2) 2 (8): 686 (223), 1902 (Stephani 1902a).
- *** *Plagiochila parvifolia* Lindenb., Sp. Hepat. (Lindenberg) 1: 28, 1839 (Lindenberg 1839).
- *** *Plagiochila patentissima* Lindenb., Sp. Hepat. (Lindenberg) 2–4: 64, 1840 (Lindenberg 1840).
- *** *Plagiochila patula* (Sw.) Lindenb., Sp. Hepat. (Lindenberg) 1: 21, 1839 (Lindenberg 1839). Bas.: *Jungermannia patula* Sw., Fl. Ind. Occid. 3: 1844, 1806 (Swartz 1806).
- ** *Plagiochila patula* var. *brevifolia* Gottsche, Mexik. Leverm.: 10, 1863 (Gottsche 1863).
- ** *Plagiochila paucidens* Steph., Bull. Herb. Boissier (sér. 2) 3 (2): 117 (297), 1903 (Stephani 1903b).
- ** *Plagiochila pensilis* Spruce, Trans. & Proc. Bot. Soc. Edinburgh 15: 497, 1885 (Spruce 1885).
- ** *Plagiochila peradenyensis* Schiffn., Denkschr. Kaiserl. Akad. Wiss., Math.-Naturwiss. Kl. 70: 172, 1900 [1901] (Schiffner 1900c).
- ** *Plagiochila perdentata* M.L.So et Grolle, Syst. Bot. 26 (3): 460, 2001 (So and Grolle 2001).
- *** *Plagiochila pinniflora* Steph., Hedwigia 30 (5): 212, 1891 (Stephani 1891a).
- *** *Plagiochila praemorsa* Steph., Bot. Jahrb. Syst. 8 (2): 92, 1886 (Stephani 1886d).
- ** *Plagiochila propinqua* Sande Lac., Plagiochila Sandei: 5, 1856 (Sande Lacoste 1856c).
- ** *Plagiochila purpurascens* Steph., Sp. Hepat. (Stephani) 6: 197, 1921 (Stephani 1921).
- *** *Plagiochila raddiana* Lindenb., Sp. Hepat. (Lindenberg) 1: 9, 1839 (Lindenberg 1839).
- * *Plagiochila ragazzii* Gola, Ann. Bot. (Rome) 13 (1): 67, 1914 (Gola 1914a).
- *** *Plagiochila repanda* (Schwägr.) Lindenb., Sp. Hepat. (Lindenberg) 2–4: 62, 1840 (Lindenberg 1840). Bas.: *Jungermannia repanda* Schwägr., Hist. Musc. Hepat. Prodr.: 26, 1814 (Schwägrichen 1814).

169 *Plagiochila owaihiensis* was considered conspecific with *Plagiochila remyana* by Inoue (1976c), but So (2000a) did not agree.

- ** *Plagiochila repanda* var. *perrotana* (Steph.) Vanden Berghen, Bull. Jard. Bot. Natl. Belg. 51 (1/2): 65, 1981 (Vanden Berghen 1981). Bas.: *Plagiochila perrotana* Steph., Bull. Herb. Boissier (sér. 2) 4 (6): 586 (437), 1904 (Stephani 1904b).
- *** *Plagiochila rodriguezii* Steph., Bot. Gaz. 15 (11): 290, 1890 (Stephani 1890c).
- *** *Plagiochila rudolfi* Pócs, Beih. Nova Hedwigia 90: 223, 1988 (Pócs 1988).
- *** *Plagiochila salacensis* Gottsche, Natuurk. Tijdschr. Ned.-Indië 4: 576, 1853 (Gottsche 1853).
- *** *Plagiochila salvadorica* Steph., Hedwigia 30 (6): 272, 1891 (Stephani 1891c).
- ** *Plagiochila serrialata* Herzog, Hedwigia 72 (6): 212, 1932 (Herzog 1932c).
- *** *Plagiochila shangaica* Steph., Sp. Hepat. (Stephani) 6: 216, 1921 (Stephani 1921).
- *** *Plagiochila simplex* (Sw.) Lindenb., Sp. Hepat. (Lindenberg) 2-4: 54, 1840 (Lindenberg 1840). Bas.: *Jungermannia simplex* Sw., Prodr. (Swartz): 143, 1788 (Swartz 1788).
- *** *Plagiochila squamulosa* Mitt., J. Proc. Linn. Soc., Bot. 7 (27): 165, 1863 (Mitten 1863).
- ** *Plagiochila squamulosa* var. *crispulocaudata* (Gottsche) Vanden Berghen, Bull. Jard. Bot. Natl. Belg. 51 (1/2): 74, 1981 (Vanden Berghen 1981). Bas.: *Plagiochila crispulocaudata* Gottsche, Abh. Naturwiss. Vereins Bremen 7: 340, 1882 (Gottsche 1882).
- ** *Plagiochila squamulosa* var. *sinuosa* (Mitt.) Vanden Berghen, Bull. Jard. Bot. Natl. Belg. 51 (1/2): 75, 1981 (Vanden Berghen 1981). Bas.: *Plagiochila sinuosa* Mitt., J. Linn. Soc., Bot. 22 (146): 319, 1886 (Mitten 1886b).
- ** *Plagiochila streimannii* Inoue, J. Jap. Bot. 63 (11): 365, 1988 (Inoue 1988c).
- *** *Plagiochila strictifolia* Steph., Hedwigia 30 (5): 210, 1891 (Stephani 1891a).
- ** *Plagiochila subflabellata* Colenso, Trans. & Proc. New Zealand Inst. 21: 51, 1889 (Colenso 1889).
- ** *Plagiochila subjavanica* M.L.So, Austral. Syst. Bot. 13 (5): 804, 2000 (So 2000a).
- *** *Plagiochila subtropica* Steph., Bull. Soc. Roy. Bot. Belgique 38 (1): 46, 1899 (Stephani 1899h).
- ** *Plagiochila tamariscina* Steph., Bull. Herb. Boissier (sér. 2) 2 (8): 685 (222), 1902 (Stephani 1902a).
- ** *Plagiochila tecta* Inoue et Grolle, J. Hattori Bot. Lab. 33: 319, 1970 (Inoue 1970a).
- *** *Plagiochila terebrans* Nees et Mont., Sp. Hepat. (Lindenberg) 2-4: 98, 1840 (Lindenberg 1840).
- *** *Plagiochila teysmannii* Sande Lac., Plagiochila Sandei: 6, 1856 (Sande Lacoste 1856c).
- ** *Plagiochila thyoides* Spruce, Trans. & Proc. Bot. Soc. Edinburgh 15: 498, 1885 (Spruce 1885).
- ** *Plagiochila tocarema* Gottsche, Ann. Sci. Nat. Bot. (sér. 5) 1: 106, 1864 (Gottsche 1864).
- ** *Plagiochila ulata* Inoue et Grolle, Bull. Natl. Sci. Mus. Tokyo, B 1 (3): 91, 1975 (Inoue 1975a).
- ** *Plagiochila undata* Sull., Amer. J. Sci. Arts (ser. 2) 1 (1): 73, 1846 (Gray 1846).
- ** *Plagiochila undata* subsp. *crispata* (Gottsche) R.M.Schust., Amer. Midl. Naturalist 63 (1): 122, 1960 (Schuster 1960c). Bas.: *Plagiochila crispata* Gottsche, Mexik. Leverm.: 71, 1863 (Gottsche 1863).

- ** *Plagiochila ungarangana* Sande Lac., Syn. hepat. jav.: 10, 1856 [1857] (Sande La-coste 1856b).
- *** *Plagiochila virginica* A.Evans, Prelim. cat. fl. W. Virginia: 497, 1892 (Evans 1892a).
- ** *Plagiochila virginica* var. *caroliniana* R.M.Schust., Amer. Midl. Naturalist 63 (1): 15, 1960 (Schuster 1960c).
- ** *Plagiochila virginica* var. *euryphylla* R.M.Schust., Amer. Midl. Naturalist 63 (1): 21, 1960 (Schuster 1960c).
- *** *Plagiochila wightii* Nees, Sp. Hepat. (Lindenberg) 2-4: 43, 1840 (Lindenberg 1840).
- ** *Plagiochila wilhelmina* Inoue, J. Hattori Bot. Lab. 33: 317, 1970 (Inoue 1970a).
- * **sect. *Zanteniae* (Inoue) Inoue**, Gen. *Plagiochila* SE Asia: 45, 1984 (Inoue 1984b). Bas.: *Plagiochila* subsect. *Zanteniae* Inoue, J. Hattori Bot. Lab. 32: 109, 1969 (Inoue 1969).
- ** *Plagiochila zantenii* Inoue, J. Hattori Bot. Lab. 32: 107, 1969 (Inoue 1969).

Incertae sedis

- * *Plagiochila abscondens* Gottsche, Ann. Sci. Nat. Bot. (sér. 5) 1: 104, 1864 (Gottsche 1864).
- ** *Plagiochila aculeata* (Hook.f. et Taylor) Gottsche, Lindenb. et Nees, Syn. Hepat. 5: 627, 1847 (Gottsche et al. 1847). Bas.: *Jungermannia aculeata* Hook.f. et Taylor, London J. Bot. 3: 578, 1844 (Hooker and Taylor 1844c).
- ** *Plagiochila acuta* Steph., Bull. Herb. Boissier (sér. 2) 3 (7): 607 (353), 1903 (Stephani 1903e).
- * *Plagiochila albertii* Steph., Biblioth. Bot. 87 (2): 188, 1916 (Stephani 1916a).
- * *Plagiochila aliena* Gottsche, Mexik. Leverm.: 22, 1863 (Gottsche 1863).¹⁷⁰
- ** *Plagiochila allionii* Steph., Sp. Hepat. (Stephani) 6: 120, 1917 (Stephani 1917a).
- * *Plagiochila ambigua* Lindenb. et Hampe, Linnaea 24 (6): 640, 1851 [1852] (Hampe 1851a).
- * *Plagiochila ampliata* Steph., Biblioth. Bot. 87 (2): 189, 1916 (Stephani 1916a).
- ** *Plagiochila andicola* Mont. et Gottsche, Ann. Sci. Nat. Bot. (sér. 4) 6: 187, 1856 (Montagne 1856a).
- ** *Plagiochila andina* Steph., Sp. Hepat. (Stephani) 6: 121, 1917 (Stephani 1917a).
- * *Plagiochila angolensis* Steph., Sp. Hepat. (Stephani) 6: 122, 1917 (Stephani 1917a).
- * *Plagiochila angusteoblunga* Steph., Biblioth. Bot. 87 (2): 189, 1916 (Stephani 1916a).
- ** *Plagiochila angustisedens* Steph., Bull. Herb. Boissier (sér. 2) 5 (8): 743 (542), 1905 (Stephani 1905i).
- ** *Plagiochila angustispina* Steph., Bull. Herb. Boissier (sér. 2) 2 (8): 671 (208), 1902 (Stephani 1902a).
- ** *Plagiochila apicalis* Gottsche, Mexik. Leverm.: 29, 1863 (Gottsche 1863).

¹⁷⁰ *Plagiochila aliena* is conspecific with *Plagiochila ludoviciana* in Schuster (1960c), but others (e.g. Fulford and Sharp 1990, Heinrichs et al. 1998, Dauphin 2005) recognize it.

- ** *Plagiochila appalachiana* Inoue, J. Hattori Bot. Lab. 40: 415, 1976 (Inoue 1976b).
Nom. nov. pro Plagiochila yokogurensis subsp. *fragilifolia* R.M.Schust., J. Hattori Bot. Lab. 18: 18, 1957 (Schuster 1957c).
- * *Plagiochila arcta* S.Winkl., Rev. Bryol. Lichénol. 42 (3): 818, 1976 (Winkler 1976).
- ** *Plagiochila arcuata* Lindenb., Sp. Hepat. (Lindenberg) 2-4: 91, 1840 (Lindenberg 1840).
- ** *Plagiochila arenacea* Schiffn., Österr. Akad. Wiss., Math.-Naturwiss. Kl., Denkschr. 111: 53, 1964 (Schiffner and Arnell 1964).
- * *Plagiochila artsii* Pócs, J. Hattori Bot. Lab. 100: 334, 2006 (Pócs 2006a).
- ** *Plagiochila atrovirens* Taylor, London J. Bot. 5: 266, 1846 (Taylor 1846a).
- ** *Plagiochila balansae* Gottsche, Contr. Étude Plagiochila: 149, 1928 (Dugas 1928).
- ** *Plagiochila baldwinii* Austin, Trans. Connecticut Acad. Arts 8 (15): 257, 1891 (Evans 1891).
- * *Plagiochila bamingensis* Steph., Bull. Mus. Natl. Hist. Nat. 18 (2): 117, 1912 (Corbière 1912).
- ** *Plagiochila bancroftii* Steph., Sp. Hepat. (Stephani) 6: 127, 1917 (Stephani 1917a).
- *** *Plagiochila barbadensis* Steph., Bull. Herb. Boissier (sér. 2) 5 (9): 897 (563), 1905 (Stephani 1905g).
- * *Plagiochila barbata* Steph., Biblioth. Bot. 87 (2): 190, 1916 (Stephani 1916a).
- * *Plagiochila barbeyi* Steph., Biblioth. Bot. 87 (2): 190, 1916 (Stephani 1916a).
- * *Plagiochila batava* Steph., Sp. Hepat. (Stephani) 6: 128, 1917 (Stephani 1917a).
- * *Plagiochila berggrenii* Steph., Biblioth. Bot. 87 (2): 191, 1916 (Stephani 1916a).
- ** *Plagiochila beskeana* Steph., Bull. Herb. Boissier (sér. 2) 2 (10): 863 (232), 1902 (Stephani 1902g).
- ** *Plagiochila bialata* Mitt., Fl. vit.: 407, 1871 [1873] (Mitten 1871).
- * *Plagiochila biapiculata* Steph., Bull. Herb. Boissier (sér. 2) 5 (9): 891 (557), 1905 (Stephani 1905g).
- * *Plagiochila bicaudata* Steph., Sp. Hepat. (Stephani) 6: 130, 1918 (Stephani 1918).
- ** *Plagiochila biciliata* Steph., Bull. Herb. Boissier (sér. 2) 3 (6): 529 (333), 1903 (Stephani 1903d).
- ** *Plagiochila bicornis* Hampe et Gottsche, Linnaea 25 (3): 338, 1852 [1853] (Hampe and Gottsche 1852).
- * *Plagiochila bidentula* Steph., Sp. Hepat. (Stephani) 6: 130, 1918 (Stephani 1918).
- ** *Plagiochila binghamiae* A.Evans, Trans. Connecticut Acad. Arts 18 (5): 304, 1914 (Evans 1914c).
- ** *Plagiochila binominata* Steph., Sp. Hepat. (Stephani) 6: 131, 1918 (Stephani 1918).
- ** *Plagiochila bitexta* Dugas, Contr. Étude Plagiochila: 58, 1928 (Dugas 1928).
- ** *Plagiochila blepharobasis* Herzog, Hedwigia 72 (6): 216, 1932 (Herzog 1932c).
- ** *Plagiochila bogotensis* Gottsche, Ann. Sci. Nat. Bot. (sér. 5) 1: 98, 1864 (Gottsche 1864).
- * *Plagiochila boliviana* Spruce, Mem. Torrey Bot. Club 1 (3): 137, 1890 (Spruce 1890).
- * *Plagiochila borneensis* Steph., Sp. Hepat. (Stephani) 6: 132, 1918 (Stephani 1918).¹⁷¹

171 *Plagiochila borneensis* is a doubtful taxon. No specimen could be found by Inoue (1984b) or So and Grolle (2000a).

- ** *Plagiochila brassii* Inoue et Grolle, J. Hattori Bot. Lab. 36: 492, 1972 [1973] (Inoue 1972b).
- * *Plagiochila brevicalycina* Lindenb. et Gottsche, *Linnaea* 20 (3): 322, 1847 (Hampe 1847).
- ** *Plagiochila brunneola* Steph., Bull. Herb. Boissier (sér. 2) 4 (2): 164 (416), 1904 (Stephani 1904f).
- *** *Plagiochila bryhnii* Steph., Biblioth. Bot. 87 (2): 192, 1916 (Stephani 1916a).
- ** *Plagiochila bunburii* Taylor, London J. Bot. 5: 269, 1846 (Taylor 1846a).
- * *Plagiochila byssacea* Hampe, *Linnaea* 20 (3): 326, 1847 (Hampe 1847).
- ** *Plagiochila caducidentata* R.M.Schust., *Phytologia* 39 (4): 247, 1978 (Schuster 1978a).
- ** *Plagiochila caldana* Steph., Bull. Herb. Boissier (sér. 2) 2 (10): 879 (248), 1902 (Stephani 1902g).
- ** *Plagiochila callaensis* Steph., Sp. Hepat. (Stephani) 6: 136, 1918 (Stephani 1918).
- * *Plagiochila camusii* Steph., Biblioth. Bot. 87 (2): 193, 1916 (Stephani 1916a).
- * *Plagiochila capillicaulis* Steph., Biblioth. Bot. 87 (2): 193, 1916 (Stephani 1916a).
- ** *Plagiochila caribbeania* R.M.Schust., Hepat. Anthocerotae N. Amer. 4: 412, 1980 (Schuster 1980c).
- * *Plagiochila cava* Steph., Bull. Herb. Boissier (sér. 2) 4 (12): 1213 (501), 1904 (Stephani 1904h).
- ** *Plagiochila ceylanica* Mitt., J. Proc. Linn. Soc., Bot. 5 (18): 98, 1860 [1861] (Mitten 1860c).
- ** *Plagiochila chacoënsis* Herzog, Feddes Repert. Spec. Nov. Regni Veg. 55 (1): 7, 1952 (Herzog 1952h).
- ** *Plagiochila chiloënsis* Steph., Bih. Kongl. Svenska Vetensk.-Akad. Handl. 26 (III, 6): 27, 1900 (Stephani 1900b).
- ** *Plagiochila chinantlana* Gottsche, Mexik. Leverm.: 12, 1863 (Gottsche 1863).
- * *Plagiochila chiovendae* Gola, Ann. Bot. (Rome) 13 (1): 67, 1914 (Gola 1914a).
- * *Plagiochila cinchonae* Steph., Bull. Herb. Boissier (sér. 2) 5 (10): 920 (570), 1905 (Stephani 1905f).
- * *Plagiochila circumvoluta* Gerola, Lav. Bot. Ist. Bot. Univ. Padova 12: 475, 1947 (Gerola 1947).
- *** *Plagiochila cleefii* Inoue, Stud. Cryptog. S. Peru: 95, 1987 (Inoue 1987c).
- * *Plagiochila concava* Nees, Sp. Hepat. (Lindenberg) 2–4: 70, 1840 (Lindenberg 1840).
- ** *Plagiochila conduplicata* Steph., Sp. Hepat. (Stephani) 6: 139, 1918 (Stephani 1918).
- * *Plagiochila conferta* Steph., Sp. Hepat. (Stephani) 6: 139, 1918 (Stephani 1918).
- ** *Plagiochila confertissima* Steph., Bull. Herb. Boissier (sér. 2) 5 (2): 182 (510), 1905 (Stephani 1905d).
- ** *Plagiochila connata* Lindenb. et Gottsche, Syn. Hepat. 5: 645, 1847 (Gottsche et al. 1847).
- ** *Plagiochila contorta* Lindenb. et Hampe, *Linnaea* 24 (3): 301, 1851 [1852] (Hampe 1851b).
- ** *Plagiochila convoluta* Steph., Sp. Hepat. (Stephani) 6: 141, 1918 (Stephani 1918).
- ** *Plagiochila convolutifolia* Steph., Sp. Hepat. (Stephani) 6: 142, 1918 (Stephani 1918).

- *** *Plagiochila corymbulosa* Pearson, Forh. Vidensk.-Selsk. Kristiania 1887 (9): 14, 1887 (Pearson 1887b).
- ** *Plagiochila costariensis* Horik., Acta Phytotax. Geobot. 13: 213, 1943 (Horikawa 1943). *Nom. nov. pro Plagiochila pinnata* Steph., Bull. Herb. Boissier (sér. 2) 5 (8): 749 (548), 1905 (Stephani 1905i), *nom. illeg.*
- ** *Plagiochila crispabilis* Lindenb., Sp. Hepat. (Lindenberg) 1: 15, 1839 (Lindenberg 1839).
- * *Plagiochila crispabilis* var. *minima* Lindenb., Sp. Hepat. (Lindenberg) 5: 155, 1843 (Lindenberg 1843).
- ** *Plagiochila cristophylla* Steph., Bull. Herb. Boissier (sér. 2) 3 (2): 117 (297), 1903 (Stephani 1903b).
- *** *Plagiochila cuatrecasii* H.Rob., Bryologist 70 (1): 47, 1967 (Robinson 1967).
- ** *Plagiochila cubensis* Steph., Sp. Hepat. (Stephani) 6: 143, 1918 (Stephani 1918).
- ** *Plagiochila cucullata* Lindenb. et Gottsche, Syn. Hepat. 5: 642, 1847 (Gottsche et al. 1847).
- * *Plagiochila cuervina* Gottsche, Ann. Sci. Nat. Bot. (sér. 5) 1: 96, 1864 (Gottsche 1864).
- ** *Plagiochila delapsa* Inoue, Beih. Nova Hedwigia 90: 171, 1988 (Inoue 1988a).
- * *Plagiochila delognei* Steph., Biblioth. Bot. 87 (2): 196, 1916 (Stephani 1916a).
- ** *Plagiochila denigrata* Inoue, Willdenowia 18 (2): 557, 1989 (Inoue 1989b).
- ** *Plagiochila densa* Herzog, Hedwigia 72 (6): 222, 1932 (Herzog 1932c).
- ** *Plagiochila densiflora* Herzog, Hedwigia 72 (6): 226, 1932 (Herzog 1932c).
- ** *Plagiochila densiramosa* Steph., Biblioth. Bot. 87 (2): 196, 1916 (Stephani 1916a).
- ** *Plagiochila deppeana* Steph., Bull. Herb. Boissier (sér. 2) 5 (9): 886 (552), 1905 (Stephani 1905g).
- ** *Plagiochila desciscens* Steph., Bull. Herb. Boissier (sér. 2) 2 (10): 867 (236), 1902 (Stephani 1902g).
- * *Plagiochila dilatata* Steph., Bull. Herb. Boissier (sér. 2) 5 (9): 887 (553), 1905 (Stephani 1905g).
- * *Plagiochila distans* Colenso, Trans. & Proc. New Zealand Inst. 19: 283, 1887 (Colenso 1887).¹⁷²
- ** *Plagiochila divaricata* Lindenb., Sp. Hepat. (Lindenberg) 5: 147, 1843 (Lindenberg 1843).
- * *Plagiochila doerfleri* Steph., Biblioth. Bot. 87 (2): 196, 1916 (Stephani 1916a).
- ** *Plagiochila dolichoblasta* Herzog, Trans. Brit. Bryol. Soc. 1 (4): 286, 1950 (Herzog 1950a).
- ** *Plagiochila dussiana* Steph., Symb. Antill. (Urban) 3 (2): 277, 1902 (Stephani 1902e).
- ** *Plagiochila echinata* R.M.Schust., Amer. Midl. Naturalist 62 (2): 341, 1959 (Schuster 1959b).
- ** *Plagiochila echinella* Gottsche, Ann. Sci. Nat. Bot. (sér. 4) 8: 332, 1857 (Gottsche 1857).
- * *Plagiochila ecuadorensis* Steph., Sp. Hepat. (Stephani) 6: 149, 1918 (Stephani 1918).

172 *Plagiochila distans* is a doubtful taxon. The type specimen could not be found (Hodgson 1944, Hamlin 1972).

- * *Plagiochila effuseintricata* Steph., Biblioth. Bot. 87 (2): 197, 1916 (Stephani 1916a).
- ** *Plagiochila eggersii* Inoue, Bull. Natl. Sci. Mus. Tokyo, B 14 (4): 138, 1988 (Inoue 1988b).
- ** *Plagiochila ekmanii* S.W. Arnell, Bryologist 59 (4): 274, 1956 (Arnell 1956c).
- * *Plagiochila electa* Steph., Bull. Herb. Boissier (sér. 2) 5 (8): 739 (538), 1905 (Stephani 1905i).
- * *Plagiochila elegantula* Herzog, Feddes Repert. Spec. Nov. Regni Veg. 57 (1/2): 161, 1955 (Herzog 1955).
- * *Plagiochila emarginatobidentula* Steph., Biblioth. Bot. 87 (2): 197, 1916 (Stephani 1916a).
- * *Plagiochila erythraeae* Herzog, Hedwigia 78 (3/4): 224, 1938 (Herzog 1938d).
- ** *Plagiochila estrellensis* Herzog, Repert. Spec. Nov. Regni Veg. 21 (1/7): 23, 1925 (Herzog 1925a).
- ** *Plagiochila eurydictyon* Herzog, Hedwigia 72 (6): 207, 1932 (Herzog 1932c).
- * *Plagiochila excisa* Steph., Sp. Hepat. (Stephani) 6: 153, 1918 (Stephani 1918).
- ** *Plagiochila exesa* Lindenb. et Gottsche, Syn. Hepat. 5: 629, 1847 (Gottsche et al. 1847).
- * *Plagiochila exilis* Colenso, Trans. & Proc. New Zealand Inst. 19: 282, 1887 (Colenso 1887).¹⁷³
- ** *Plagiochila expansa* Gottsche, Mexik. Leverm.: 18, 1863 (Gottsche 1863).
- ** *Plagiochila facallonia* Steph., Bull. Herb. Boissier (sér. 2) 2 (10): 871 (240), 1902 (Stephani 1902g).
- * *Plagiochila falcato-oblonga* Steph., Biblioth. Bot. 87 (2): 198, 1916 (Stephani 1916a).
- ** *Plagiochila fallax* Lindenb. et Hampe, Linnaea 24 (3): 300, 1851 [1852] (Hampe 1851b).
- ** *Plagiochila faxinensis* Schiffn., Österr. Akad. Wiss., Math.-Naturwiss. Kl., Denkschr. 111: 60, 1964 (Schiffner and Arnell 1964).
- ** *Plagiochila fendleri* Mont., Ann. Sci. Nat. Bot. (sér. 4) 6: 198, 1856 (Montagne 1856a).
- * *Plagiochila filicicola* Steph., Bull. Herb. Boissier (sér. 2) 4 (4): 351 (427), 1904 (Stephani 1904e).
- ** *Plagiochila fissidentoides* Taylor, London J. Bot. 5: 264, 1846 (Taylor 1846a).
- * *Plagiochila flabellifrons* Spruce, Trans. & Proc. Bot. Soc. Edinburgh 15: 488, 1885 (Spruce 1885).
- ** *Plagiochila flava* Steph., Sp. Hepat. (Stephani) 6: 156, 1918 (Stephani 1918).
- ** *Plagiochila flavescens* (Gottsche, Lindenb. et Nees) Gottsche, Mexik. Leverm.: 52, 1863 (Gottsche 1863). Bas.: *Plagiochila guilleminiana* β *flavescens* Gottsche, Lindenb. et Nees, Syn. Hepat. 5: 644, 1847 (Gottsche et al. 1847).
- * *Plagiochila flavorufescens* Steph., Biblioth. Bot. 87 (2): 199, 1916 (Stephani 1916a).
- ** *Plagiochila footei* A. Evans, Trans. Connecticut Acad. Arts 18 (5): 306, 1914 (Evans 1914c).
- * *Plagiochila formosa* Nees, Contr. Étude Plagiochila: 147, 1928 (Dugas 1928).

¹⁷³ *Plagiochila exilis* is a doubtful taxon. The type specimen could not be found (Hodgson 1944, Hamlin 1972).

- ** *Plagiochila fragmentata* R.M.Schust., Phytologia 45 (5): 421, 1980 (Schuster 1980b).
- * *Plagiochila frausa* Gottsche, Mexik. Leverm.: 66, 1863 (Gottsche 1863).
- * *Plagiochila frausa* var. *boliviana* Spruce, Mem. Torrey Bot. Club 1 (3): 134, 1890 (Spruce 1890).
- ** *Plagiochila frayjorgensis* Hässel, Bol. Soc. Argent. Bot. 22 (1/4): 103, 1983 (Hässel 1983). *Nom. nov. pro Plagiochila modesta* Herzog, Rev. Bryol. Lichénol. 23 (1/2): 34, 1954 (Herzog 1954), *nom. illeg.*
- * *Plagiochila gaffatensis* Gottsche ex Schweinf., Beitr. Fl. Aethiop.: 227, 1866 [1867] (Schweinfurth 1866).
- ** *Plagiochila gaudichaudii* Mont. et Gottsche, Ann. Sci. Nat. Bot. (sér. 4) 6: 193, 1856 (Montagne 1856a).
- ** *Plagiochila geniculata* Lindenb., Sp. Hepat. (Lindenberg) 5: 131, 1843 (Lindenberg 1843).
- * *Plagiochila geppii* Steph., Biblioth. Bot. 87 (2): 199, 1916 (Stephani 1916a).
- ** *Plagiochila germana* Gottsche, Mexik. Leverm.: 34, 1863 (Gottsche 1863).
- ** *Plagiochila germanii* Steph., Bull. Herb. Boissier (sér. 2) 5 (10): 938 (588), 1905 (Stephani 1905f).
- * *Plagiochila gibbiflora* Steph., Bull. Herb. Boissier (sér. 2) 4 (6): 590 (441), 1904 (Stephani 1904b).
- ** *Plagiochila gittinsii* Inoue, Bull. Natl. Sci. Mus. Tokyo, B 3 (4): 139, 1977 (Inoue 1977a).
- * *Plagiochila glauca* Carl, Ann. Bryol., Suppl. 2: 129, 1931 (Carl 1931b).¹⁷⁴
- * *Plagiochila gracilicaulis* Spruce, Mem. Torrey Bot. Club 1 (3): 132, 1890 (Spruce 1890).
- ** *Plagiochila gracillima* Austin, Trans. Connecticut Acad. Arts 8 (15): 256, 1891 (Evans 1891).
- * *Plagiochila granatensis* Gottsche, Ann. Sci. Nat. Bot. (sér. 5) 1: 111, 1864 (Gottsche 1864).
- ** *Plagiochila granditexta* Steph., Bull. Herb. Boissier (sér. 2) 4 (2): 165 (417), 1904 (Stephani 1904f).
- ** *Plagiochila grateloupii* Mont., Ann. Sci. Nat. Bot. (sér. 4) 6: 188, 1856 (Montagne 1856a).
- ** *Plagiochila guatemalensis* Steph., Sp. Hepat. (Stephani) 6: 163, 1918 (Stephani 1918).
- ** *Plagiochila guttisquama* Inoue et Grolle, Bull. Natl. Sci. Mus. Tokyo, B 5 (1): 29, 1979 (Inoue 1979c).
- ** *Plagiochila gymnocalyx* Inoue, Trop. Bryol. 1: 34, 1989 (Gradstein and Florschütz-de Waard 1989).
- ** *Plagiochila haeseliae* Inoue, Stud. Cryptog. S. Chile: 97, 1984 (Inoue 1984a).
- * *Plagiochila hans-meyeri* Steph., Sp. Hepat. (Stephani) 6: 164, 1918 (Stephani 1918).
- ** *Plagiochila harlingii* S.W.Arnell, Svensk Bot. Tidskr. 56 (2): 346, 1962 (Arnell 1962b).

¹⁷⁴ *Plagiochila glauca* is a doubtful taxon. Hässel and Rubies (2009) could not find any type material.

- ** *Plagiochila haumanii* Herzog, Repert. Spec. Nov. Regni Veg. 41 (14/25): 285, 1937 (Herzog 1937).
- ** *Plagiochila hawaica* Steph., Bull. Herb. Boissier (sér. 2) 3 (7): 598 (344), 1903 (Stephani 1903e).
- ** *Plagiochila heteracantha* Steph., Sp. Hepat. (Stephani) 6: 166, 1918 (Stephani 1918).
- * *Plagiochila heterofolia* Steph., Biblioth. Bot. 87 (2): 200, 1916 (Stephani 1916a).
- * *Plagiochila hieronymii* Steph., Biblioth. Bot. 87 (2): 201, 1916 (Stephani 1916a).
- ** *Plagiochila hiroshiana* Pócs, J. Hattori Bot. Lab. 100: 335, 2006 (Pócs 2006a).
- ** *Plagiochila hoehmei* Herzog, Hedwigia 72 (6): 220, 1932 (Herzog 1932c).
- * *Plagiochila holstii* Steph., Hedwigia 45 (4): 214, 1906 (Stephani 1906b). *Nom. nov. pro Plagiochila prostrata* Steph., Bull. Herb. Boissier (sér. 2) 4 (2): 168 (420), 1904 (Stephani 1904f), *nom. illeg.*
- ** *Plagiochila horrida* Gottsche, Mexik. Leverm.: 74, 1863 (Gottsche 1863).
- * *Plagiochila huatuscana* Gottsche, Mexik. Leverm.: 24, 1863 (Gottsche 1863).
- ** *Plagiochila huerlimannii* Inoue, J. Hattori Bot. Lab. 33: 307, 1970 (Inoue 1970b).
- * *Plagiochila humboldtiana* Gottsche, Ann. Sci. Nat. Bot. (sér. 5) 1: 112, 1864 (Gottsche 1864).
- ** *Plagiochila hyalina* Lindenb., Syn. Hepat. 5: 640, 1847 (Gottsche et al. 1847).
- * *Plagiochila incisa* Dugas, Contr. Étude Plagiochila: 112, 1928 (Dugas 1928).
- ** *Plagiochila inflata* Steph., Bull. Herb. Boissier (sér. 2) 3 (11): 961 (376), 1903 (Stephani 1903a).
- * *Plagiochila informifolia* Steph., Biblioth. Bot. 87 (2): 202, 1916 (Stephani 1916a).
- ** *Plagiochila infuscata* Mitt., J. Linn. Soc., Bot. 15 (82): 63, 1876 (Mitten 1876a).
- * *Plagiochila injasutiensis* S.W. Arnell, Bot. Not. 110: 404, 1957 (Arnell 1957d).
- ** *Plagiochila inouei* Grolle, J. Bryol. 10 (3): 269, 1979 (Grolle 1979b). *Nom. nov. pro Plagiochila nudiuscula* Inoue, Bull. Natl. Sci. Mus. Tokyo, B 3 (2): 45, 1977 (Inoue 1977c), *nom. illeg.*
- ** *Plagiochila insularia* Mitt., St. Helena: 366, 1875 (Mitten 1875).
- ** *Plagiochila intertexta* Hook.f. et Taylor, London J. Bot. 5: 267, 1846 (Taylor 1846a).
- * *Plagiochila inuensis* Steph., Biblioth. Bot. 87 (2): 202, 1916 (Stephani 1916a).
- ** *Plagiochila irregularis* Gottsche, Mexik. Leverm.: 14, 1863 (Gottsche 1863).
- ** *Plagiochila itatiajensis* Steph., Bull. Herb. Boissier (sér. 2) 2 (10): 874 (243), 1902 (Stephani 1902g).
- ** *Plagiochila jamaicensis* Lindenb. et Hampe, Linnaea 24 (3): 302, 1851 [1852] (Hampe 1851b).
- ** *Plagiochila jaramillii* H. Rob., Bryologist 70 (1): 48, 1967 (Robinson 1967).
- * *Plagiochila karstenii* Steph., Hedwigia 45 (4): 214, 1906 (Stephani 1906b). *Nom. nov. pro Plagiochila patentispina* Steph., Bull. Herb. Boissier (sér. 2) 4 (1): 28 (400), 1904 (Stephani 1904g), *nom. illeg.*¹⁷⁵
- * *Plagiochila kaulfussiana* Steph., Sp. Hepat. (Stephani) 6: 172, 1918 (Stephani 1918).
- ** *Plagiochila keckiana* Steph., Bull. Herb. Boissier (sér. 2) 5 (4): 358 (526), 1905 (Stephani 1905j).

175 *Plagiochila karstenii* is possibly conspecific with *Plagiochila bantamensis* (So and Grolle 2000a).

- ** *Plagiochila kerneriana* S.W.Arnell, Österr. Akad. Wiss., Math.-Naturwiss. Kl., Denkschr. 111: 60, 1964 (Schiffner and Arnell 1964).
- ** *Plagiochila kopenenii* Inoue et Piippo, Ann. Bot. Fenn. 26 (2): 216, 1989 (Piippo 1989b).
- * *Plagiochila lacerifolia* Steph., Biblioth. Bot. 87 (2): 202, 1916 (Stephani 1916a).
- * *Plagiochila lachenaudii* Steph., Biblioth. Bot. 87 (2): 202, 1916 (Stephani 1916a).
- * *Plagiochila laciniosa* Dugas, Contr. Étude Plagiochila: 68, 1928 (Dugas 1928).
- * *Plagiochila laevifolia* Gola, Ann. Bot. (Rome) 6 (2): 273, 1907 (Gola 1907).
- ** *Plagiochila lansbergii* Gottsche, Mexik. Leverm.: 13, 1863 (Gottsche 1863).
- ** *Plagiochila latitrigona* Schiffn., Österr. Akad. Wiss., Math.-Naturwiss. Kl., Denkschr. 111: 48, 1964 (Schiffner and Arnell 1964).
- * *Plagiochila laxiramea* Steph., Biblioth. Bot. 87 (2): 203, 1916 (Stephani 1916a).
- * *Plagiochila lecontei* Steph., Bull. Herb. Boissier (sér. 2) 4 (2): 165 (417), 1904 (Stephani 1904f).¹⁷⁶
- * *Plagiochila ledermanniana* Beauverd, Sp. Hepat. (Stephani) 6: 572, 1924 (Stephani 1924). *Nom. nov. pro Plagiochila cucullifolia* Steph., Sp. Hepat. (Stephani) 6: 243, 1922 (Stephani 1922), *nom. illeg.*¹⁷⁷
- * *Plagiochila ledieui* Steph., Bull. Herb. Boissier (sér. 2) 4 (2): 161 (413), 1904 (Stephani 1904f).¹⁷⁸
- ** *Plagiochila lehmanniana* S.W.Arnell, Svensk Bot. Tidskr. 55 (1): 205, 1961 (Arnell 1961).
- ** *Plagiochila liebmänniana* Lehm. et Lindenb., Sp. Hepat. (Lindenberg) 2-4: 97, 1840 (Lindenberg 1840).
- * *Plagiochila lignicola* Spruce, Mem. Torrey Bot. Club 1 (3): 135, 1890 (Spruce 1890).
- * *Plagiochila lindauii* Steph., Biblioth. Bot. 87 (2): 204, 1916 (Stephani 1916a).
- * *Plagiochila lindigiana* Gottsche, Ann. Sci. Nat. Bot. (sér. 5) 1: 105, 1864 (Gottsche 1864).
- ** *Plagiochila lingua* Steph., Bull. Herb. Boissier (sér. 2) 2 (8): 677 (214), 1902 (Stephani 1902a).
- * *Plagiochila longifissa* Steph., Bull. Herb. Boissier (sér. 2) 5 (9): 891 (557), 1905 (Stephani 1905g).
- * *Plagiochila lotsyana* Steph., Biblioth. Bot. 87 (2): 205, 1916 (Stephani 1916a).
- * *Plagiochila luteola* Steph., Bull. Herb. Boissier (sér. 2) 5 (2): 175 (503), 1905 (Stephani 1905d).
- ** *Plagiochila lutescens* Steph., Sp. Hepat. (Stephani) 6: 179, 1921 (Stephani 1921).
- ** *Plagiochila luzonensis* Grolle et M.L.So, Bryologist 102 (1): 69, 1999 (Grolle and So 1999a).

176 *Plagiochila lecontei* is allied to and perhaps conspecific with *Plagiochila ledieui* and *Plagiochila multiflora* (Jones 1962).

177 *Plagiochila ledermanniana* is a doubtful taxon. The type specimen was burned in B (Piippo 1989b).

178 *Plagiochila ledieui* is allied to and perhaps conspecific with *Plagiochila lecontei* and *Plagiochila multiflora* (Jones 1962).

- * *Plagiochila macra* Taylor, London J. Bot. 7: 198, 1848 (Taylor 1848a).
- ** *Plagiochila macrifolia* Taylor, London J. Bot. 5: 270, 1846 (Taylor 1846a).
- * *Plagiochila macrifolia* var. *angustifolia* Spruce, Trans. & Proc. Bot. Soc. Edinburgh 15: 470, 1885 (Spruce 1885).
- *** *Plagiochila martiana* (Nees) Lindenb., Sp. Hepat. (Lindenberg) 1: 12, 1839 (Lindenberg 1839). Bas.: *Jungermannia martiana* Nees, Linnaea 6 (4): 617, 1831 (Nees 1831).
- * *Plagiochila matanga* Steph., Sp. Hepat. (Stephani) 6: 183, 1921 (Stephani 1921).
- ** *Plagiochila maunakeana* Steph., Sp. Hepat. (Stephani) 6: 186, 1921 (Stephani 1921).
- ** *Plagiochila maximiliana* Gottsche, Mexik. Leverm.: 18, 1863 (Gottsche 1863).
- ** *Plagiochila meghalayensis* K.K.Rawat et S.C.Srivast., Geophytology 35 (1/2): 49, 2005 (Rawat and Srivastava 2005).
- ** *Plagiochila meridana* Gottsche, Ann. Sci. Nat. Bot. (sér. 4) 8: 328, 1857 (Gottsche 1857).
- ** *Plagiochila microdonta* Mitt., J. Proc. Linn. Soc., Bot. 5 (18): 97, 1860 [1861] (Mitten 1860c).
- * *Plagiochila mildbreadiana* Beauverd, Sp. Hepat. (Stephani) 6: 571, 1924 (Stephani 1924). *Nom. nov. pro Plagiochila andongensis* Steph., Sp. Hepat. (Stephani) 6: 122, 1917 (Stephani 1917a), *nom. illeg.*
- ** *Plagiochila minarum* Herzog, Hedwigia 72 (6): 207, 1932 (Herzog 1932c).
- ** *Plagiochila minutiretis* Reimers, Repert. Spec. Nov. Regni Veg. 21 (8/20): 264, 1925 (Reimers 1925).
- ** *Plagiochila miqueliana* Lehm. et Lindenb., Sp. Hepat. (Lindenberg) 2-4: 95, 1840 (Lindenberg 1840).
- ** *Plagiochila molliuscula* Inoue, Ann. Bot. Fenn. 13 (3): 134, 1976 (Engel 1976a).
- ** *Plagiochila mollusca* Lehm., Nov. Stirp. Pug. 10: 4, 1857 (Lehmann 1857).
- ** *Plagiochila moniliformis* R.M.Schust., Phytologia 39 (4): 247, 1978 (Schuster 1978a).
- ** *Plagiochila muelleriana* Gottsche, Mexik. Leverm.: 38, 1863 (Gottsche 1863).
- * *Plagiochila multiflora* Steph., Pflanzenw. Ost-Afrikas C: 64, 1895 (Stephani 1895d).¹⁷⁹
- ** *Plagiochila mutila* Gottsche, Ann. Sci. Nat. Bot. (sér. 4) 8: 327, 1857 (Gottsche 1857).
- * *Plagiochila naranjoënsis* Steph., Bull. Herb. Boissier (sér. 2) 2 (8): 687 (224), 1902 (Stephani 1902a).
- ** *Plagiochila neesiana* Lindenb., Sp. Hepat. (Lindenberg) 2-4: 71, 1840 (Lindenberg 1840).
- * *Plagiochila neglecta* Steph., Bull. Herb. Boissier (sér. 2) 5 (4): 351 (519), 1905 (Stephani 1905j).
- * *Plagiochila negrensis* Spruce, Trans. & Proc. Bot. Soc. Edinburgh 15: 466, 1885 (Spruce 1885).
- * *Plagiochila negrii* Gola, Ann. Bot. (Rome) 13 (1): 66, 1914 (Gola 1914a).

¹⁷⁹ *Plagiochila multiflora* is allied to and perhaps conspecific with *Plagiochila lecontei* and *Plagiochila ledieui* (Jones 1962).

- * *Plagiochila nigricaulis* Steph., Biblioth. Bot. 87 (2): 206, 1916 (Stephani 1916a).
- * *Plagiochila notha* Steph., Bull. Herb. Boissier (sér. 2) 5 (8): 737 (536), 1905 (Stephani 1905i).
- * *Plagiochila nova* Steph., Sp. Hepat. (Stephani) 6: 189, 1921 (Stephani 1921).
- ** *Plagiochila nudifolia* (Steph.) Grolle, Feddes Repert. 82 (1): 89, 1971 (Grolle 1971b). Bas.: *Jamesoniella nudifolia* Steph., Biblioth. Bot. 87 (2): 184, 1916 (Stephani 1916a).
- ** *Plagiochila nutans* Steph., Bull. Herb. Boissier (sér. 2) 3 (11): 960 (375), 1903 (Stephani 1903a).
- * *Plagiochila obliquetruncata* Steph., Biblioth. Bot. 87 (2): 207, 1916 (Stephani 1916a).
- ** *Plagiochila oblonga* Inoue, Bull. Natl. Sci. Mus. Tokyo (n.ser.) 8 (3): 398, 1965 (Inoue 1965a).
- ** *Plagiochila oerstediana* Lindenb. et Hampe, Linnaea 24 (3): 301, 1851 [1852] (Hampe 1851b).
- ** *Plagiochila olivacea* Steph., Bull. Herb. Boissier (sér. 2) 5 (2): 190 (518), 1905 (Stephani 1905d).
- * *Plagiochila ornata* Wilson ex Lindenb., Sp. Hepat. (Lindenberg) 5: 164, 1843 (Lindenberg 1843).
- * *Plagiochila ovato-obconica* Steph., Sp. Hepat. (Stephani) 6: 191, 1921 (Stephani 1921).
- * *Plagiochila ovifolia* Steph., Sp. Hepat. (Stephani) 6: 191, 1921 (Stephani 1921).
- ** *Plagiochila palangiensis* S.C.Srivast., K.K.Rawat et P.K.Verma, Natl. Acad. Sci. Lett. 29 (7/8): 267, 2006 (Srivastava et al. 2006).
- ** *Plagiochila panamensis* Inoue, Bull. Natl. Sci. Mus. Tokyo, B 15 (3): 94, 1989 (Inoue 1989a).
- ** *Plagiochila paramicola* Herzog, Beih. Bot. Centralbl. 61B (3): 563, 1942 (Herzog 1942d).
- * *Plagiochila parvitexta* Steph., Bull. Herb. Boissier (sér. 2) 2 (8): 674 (211), 1902 (Stephani 1902a).
- ** *Plagiochila parvivittata* Inoue, Bull. Natl. Sci. Mus. Tokyo, B 13 (2): 50, 1987 (Inoue 1987b).
- * *Plagiochila parvula* Steph., Akad. Wiss. Wien, Math.-Naturwiss. Kl., Denkschr. 88: 726, 1913 (Stephani 1913b).
- * *Plagiochila pastasensis* Steph., Sp. Hepat. (Stephani) 6: 197, 1921 (Stephani 1921).
- ** *Plagiochila patentispina* Steph., Bull. Herb. Boissier (sér. 2) 2 (10): 877 (246), 1902 (Stephani 1902g).
- ** *Plagiochila patuloides* Schiffn., Österr. Akad. Wiss., Math.-Naturwiss. Kl., Denkschr. 111: 58, 1964 (Schiffner and Arnell 1964).
- ** *Plagiochila paucidentata* Mont. et Gottsche, Ann. Sci. Nat. Bot. (sér. 4) 6: 197, 1856 (Montagne 1856a).
- ** *Plagiochila paupercula* Gottsche, Mexik. Leverm.: 22, 1863 (Gottsche 1863).
- * *Plagiochila pearceana* Steph., Bull. Herb. Boissier (sér. 2) 5 (8): 742 (541), 1905 (Stephani 1905i).
- ** *Plagiochila pellucida* Lindenb. et Gottsche, Linnaea 20 (3): 321, 1847 (Hampe 1847).

- ** *Plagiochila perrottetiana* Mont. et Gottsche, Ann. Sci. Nat. Bot. (sér. 4) 6: 195, 1856 (Montagne 1856a).
- ** *Plagiochila perrottetiana* var. *minor* Gottsche, Ann. Sci. Nat. Bot. (sér. 5) 1: 101, 1864 (Gottsche 1864).
- ** *Plagiochila pilifera* Steph., Sp. Hepat. (Stephani) 6: 198, 1921 (Stephani 1921).
- ** *Plagiochila pinnatidens* Steph., Sp. Hepat. (Stephani) 6: 199, 1921 (Stephani 1921).
- ** *Plagiochila pittieri* Steph., Bull. Herb. Boissier (sér. 2) 2 (8): 673 (210), 1902 (Stephani 1902a).
- ** *Plagiochila platyphylla* Herzog, Hedwigia 72 (6): 223, 1932 (Herzog 1932c).
- ** *Plagiochila polopolensis* Herzog, Hedwigia 67 (6): 261, 1927 (Herzog 1927).
- * *Plagiochila prostrata* Steph., Bull. Herb. Boissier (sér. 2) 2 (8): 668 (205), 1902 (Stephani 1902a).
- * *Plagiochila pseudopatula* Herzog, Hedwigia 72 (6): 227, 1932 (Herzog 1932c).
- ** *Plagiochila pseudoradicans* Herzog, Repert. Spec. Nov. Regni Veg. 21 (1/7): 24, 1925 (Herzog 1925a).
- ** *Plagiochila ptychanthoidea* Steph., Bull. Herb. Boissier (sér. 2) 3 (2): 121 (301), 1903 (Stephani 1903b).
- ** *Plagiochila pulchella* Steph., Bull. Herb. Boissier (sér. 2) 2 (10): 871 (240), 1902 (Stephani 1902g).
- ** *Plagiochila pulvinata* Steph., Bull. Herb. Boissier (sér. 2) 3 (6): 526 (330), 1903 (Stephani 1903d).
- ** *Plagiochila ratkowskiana* Inoue, Brunonia 3 (1): 141, 1980 (Inoue 1980).
- ** *Plagiochila regeliana* Steph., Bull. Herb. Boissier (sér. 2) 2 (8): 675 (212), 1902 (Stephani 1902a).
- ** *Plagiochila remyana* Steph., Bull. Herb. Boissier (sér. 2) 3 (11): 963 (378), 1903 (Stephani 1903a).
- *** *Plagiochila revolvens* Mitt., Hooker's J. Bot. Kew Gard. Misc. 3: 358, 1851 (Mitten 1851).
- ** *Plagiochila rigidula* Lindenb. et Gottsche, Linnaea 20 (3): 323, 1847 (Hampe 1847).
- ** *Plagiochila rosana* Steph., Bull. Herb. Boissier (sér. 2) 5 (9): 892 (558), 1905 (Stephani 1905g).
- * *Plagiochila rubricaulis* Steph., Bot. Jahrb. Syst. 20 (3): 311, 1895 (Stephani 1895a).
- * *Plagiochila rufifolia* Steph., Biblioth. Bot. 87 (2): 209, 1916 (Stephani 1916a).
- ** *Plagiochila rufoviridis* Spruce, Mem. Torrey Bot. Club 1 (3): 136, 1890 (Spruce 1890).
- * *Plagiochila rusbyi* Spruce, Mem. Torrey Bot. Club 1 (3): 135, 1890 (Spruce 1890).
- * *Plagiochila sabensis* Steph., Sp. Hepat. (Stephani) 6: 214, 1921 (Stephani 1921).
- ** *Plagiochila sachapatensis* Steph., Bull. Herb. Boissier (sér. 2) 2 (8): 679 (216), 1902 (Stephani 1902a).
- ** *Plagiochila salazariae* Inoue, Bull. Natl. Sci. Mus. Tokyo, B 15 (3): 91, 1989 (Inoue 1989a).
- ** *Plagiochila saltuensis* Spruce ex Steph., Bull. Herb. Boissier (sér. 2) 5 (10): 927 (577), 1905 (Stephani 1905f).

- ** *Plagiochila saltuensis* var. *spinosissima* Herzog, Feddes Repert. Spec. Nov. Regni Veg. 57 (1/2): 163, 1955 (Herzog 1955).
- * *Plagiochila samoana* Steph., Akad. Wiss. Wien, Math.-Naturwiss. Kl., Denkschr. 85: 197, 1910 (Stephani 1910a).
- ** *Plagiochila sarmentosa* (Lehm. et Lindenb.) Lindenb., Sp. Hepat. (Lindenberg) 2-4: 86, 1840 (Lindenberg 1840). Bas.: *Jungermannia sarmentosa* Lehm. et Lindenb., Linnæa 9 (4): 427, 1835 (Lehmann 1835).
- * *Plagiochila schiffneri* Steph., Biblioth. Bot. 87 (2): 209, 1916 (Stephani 1916a).
- * *Plagiochila schinzei* Steph., Biblioth. Bot. 87 (2): 209, 1916 (Stephani 1916a).
- * *Plagiochila schmidtii* Steph., Biblioth. Bot. 87 (2): 209, 1916 (Stephani 1916a).
- * *Plagiochila schraderbergii* Steph., Sp. Hepat. (Stephani) 6: 244, 1922 (Stephani 1922).¹⁸⁰
- ** *Plagiochila schubertiana* Steph., Sp. Hepat. (Stephani) 6: 208, 1921 (Stephani 1921).
- ** *Plagiochila schusteri* Inoue et Grolle, J. Hattori Bot. Lab. 33: 326, 1970 (Inoue 1970a).
- ** *Plagiochila scissifolia* Steph., Bull. Herb. Boissier (sér. 2) 2 (10): 865 (234), 1902 (Stephani 1902g).
- * *Plagiochila scotica* Macvicar ex Steph., Sp. Hepat. (Stephani) 6: 209, 1921 (Stephani 1921).¹⁸¹
- ** *Plagiochila semiamplexicaulis* Steph., Bull. Herb. Boissier (sér. 2) 5 (10): 936 (586), 1905 (Stephani 1905f).
- ** *Plagiochila semiermis* Dugas, Contr. Étude Plagiochila: 66, 1928 (Dugas 1928).
- ** *Plagiochila silvatica* Gottsche, Ann. Sci. Nat. Bot. (sér. 5) 1: 108, 1864 (Gottsche 1864).
- * *Plagiochila similis* Steph., Biblioth. Bot. 87 (2): 210, 1916 (Stephani 1916a).
- ** *Plagiochila sisparensis* Steph., Sp. Hepat. (Stephani) 6: 207, 1921 (Stephani 1921).
- * *Plagiochila slateri* Steph., Biblioth. Bot. 87 (2): 211, 1916 (Stephani 1916a).
- ** *Plagiochila solitaria* Gottsche, Sp. Hepat. (Stephani) 6: 225, 1921 (Stephani 1921).
- *** *Plagiochila spinifera* Ångstr., Öfvers. Kongl. Vetensk.-Akad. Förh. 30 (5): 113, 1873 (Ångström 1873).
- * *Plagiochila sprucei* Steph., Bull. Herb. Boissier (sér. 2) 2 (10): 860 (229), 1902 (Stephani 1902g).
- * *Plagiochila staudtiana* Steph., Bull. Herb. Boissier (sér. 2) 4 (4): 352 (428), 1904 (Stephani 1904e).
- ** *Plagiochila stipata* Steph., Sp. Hepat. (Stephani) 6: 209, 1921 (Stephani 1921).
- * *Plagiochila stolzii* Steph., Sp. Hepat. (Stephani) 6: 244, 1922 (Stephani 1922).
- ** *Plagiochila subcontigua* Herzog, Hedwigia 72 (6): 230, 1932 (Herzog 1932c).
- * *Plagiochila subconvoluta* Gottsche, Mexik. Leverm.: 24, 1863 (Gottsche 1863).
- * *Plagiochila subdenudata* Steph., Bull. Herb. Boissier (sér. 2) 2 (8): 673 (210), 1902 (Stephani 1902a).

180 *Plagiochila schraderbergii* is a doubtful taxon. The type specimen was burned in B (Piippo 1989b).

181 *Plagiochila scotica* was described from Europe, but it has neither been recognized in any recent European study nor synonymized.

- ** *Plagiochila subedentata* Steph., Bull. Herb. Boissier (sér. 2) 2 (8): 679 (216), 1902 (Stephani 1902a).
- ** *Plagiochila subfragilis* Inoue, Stud. Cryptog. S. Peru: 98, 1987 (Inoue 1987c).
- * *Plagiochila subhyalina* Steph., Biblioth. Bot. 87 (2): 212, 1916 (Stephani 1916a).
- ** *Plagiochila subligulata* Steph., Sp. Hepat. (Stephani) 6: 224, 1921 (Stephani 1921).
- ** *Plagiochila sublyallii* M.L.So, New Zealand J. Bot. 39 (1): 109, 2001 (So 2001b).
- * *Plagiochila subrara* Herzog, Hedwigia 74 (2): 87, 1934 (Herzog 1934a).
- * *Plagiochila subrotundifolia* Steph., Bull. Herb. Boissier (sér. 2) 5 (10): 935 (585), 1905 (Stephani 1905f).
- ** *Plagiochila subundulata* Lindenb., Sp. Hepat. (Lindenberg) 5: 137, 1843 (Lindenberg 1843).
- * *Plagiochila suringarii* Steph., Sp. Hepat. (Stephani) 6: 208, 1921 (Stephani 1921).
- ** *Plagiochila sylvicultrix* Spruce, Trans. & Proc. Bot. Soc. Edinburgh 15: 486, 1885 (Spruce 1885).
- * *Plagiochila symmetrica* Steph., Bull. Herb. Boissier (sér. 2) 2 (10): 876 (245), 1902 (Stephani 1902g).
- ** *Plagiochila tabinana* Gottsche, Mexik. Leverm.: 46, 1863 (Gottsche 1863).
- ** *Plagiochila talinayi* S.W.Arnell, Svensk Bot. Tidskr. 50 (2): 312, 1956 (Arnell 1956d).
- ** *Plagiochila tambillensis* Loitl., Diagn. pl. nov.: 22, 1894 (Szyszylowicz 1894).
- ** *Plagiochila tarapotensis* Steph., Bull. Herb. Boissier (sér. 2) 2 (10): 863 (232), 1902 (Stephani 1902g).
- * *Plagiochila tenera* Steph., Sp. Hepat. (Stephani) 6: 231, 1921 (Stephani 1921).
- ** *Plagiochila tenuis* Lindenb., Sp. Hepat. (Lindenberg) 2-4: 50, 1840 (Lindenberg 1840).
- * *Plagiochila tenuispica* Steph., Sp. Hepat. (Stephani) 6: 234, 1921 (Stephani 1921).
- ** *Plagiochila thamniopsis* Spruce, Bull. Soc. Bot. France (Congr. Bot.) 36: cc, 1889 [1890] (Spruce 1889).
- * *Plagiochila thollonii* Steph., Bull. Herb. Boissier (sér. 2) 2 (12): 980 (270), 1902 (Stephani 1902h).
- ** *Plagiochila thrausta* Inoue et Grolle, Bull. Natl. Sci. Mus. Tokyo, B 5 (1): 34, 1979 (Inoue 1979c).
- * *Plagiochila tonduziana* Steph., Sp. Hepat. (Stephani) 6: 227, 1921 (Stephani 1921).
- ** *Plagiochila tortuosa* Lindenb. et Gottsche, Mexik. Leverm.: 70, 1863 (Gottsche 1863).
- * *Plagiochila tovarina* Gottsche, Ann. Sci. Nat. Bot. (sér. 5) 1: 102, 1864 (Gottsche 1864).
- * *Plagiochila trabeculatospinosa* Herzog, Hedwigia 72 (6): 213, 1932 (Herzog 1932c).
- * *Plagiochila trabutii* Steph., Biblioth. Bot. 87 (2): 213, 1916 (Stephani 1916a).
- ** *Plagiochila trianae* Gottsche, Ann. Sci. Nat. Bot. (sér. 5) 1: 114, 1864 (Gottsche 1864).
- ** *Plagiochila trichomanes* Spruce, Bull. Soc. Bot. France (Congr. Bot.) 36: cc, 1889 [1890] (Spruce 1889).
- * *Plagiochila tricuspis* Steph., Sp. Hepat. (Stephani) 6: 229, 1921 (Stephani 1921).

- ** *Plagiochila tristaniana* Váňa et J.J.Engel, Mem. New York Bot. Gard. 105: 89, 2013 (Váňa and Engel 2013). *Nom. nov. pro Plagiochila fragilifolia* S.W.Arnell, Results Norweg. Sci. Exped. Tristan da Cunha 42: 25, 1958 (Arnell 1958b), *nom. illeg.*
- ** *Plagiochila tristis* Steph., Bull. Herb. Boissier (sér. 2) 2 (10): 880 (249), 1902 (Stephani 1902g).
- ** *Plagiochila trollii* Herzog, Hedwigia 74 (2): 90, 1934 (Herzog 1934a).
- ** *Plagiochila truncata* Gottsche, Mexik. Leverm.: 25, 1863 (Gottsche 1863).
- ** *Plagiochila uleana* Steph., Bull. Herb. Boissier (sér. 2) 2 (10): 868 (237), 1902 (Stephani 1902g).
- ** *Plagiochila umbrosioides* L.Söderstr., Phytotaxa 208 (1): 85, 2015 (Söderström et al. 2015b). *Nom. nov. pro Plagiochila umbrosa* Steph., Sp. Hepat. (Stephani) 6: 235, 1921 (Stephani 1921), *nom. illeg.*
- * *Plagiochila unduavensis* Steph., Bull. Herb. Boissier (sér. 2) 2 (10): 882 (251), 1902 (Stephani 1902g).
- * *Plagiochila usambarana* Steph., Bull. Herb. Boissier (sér. 2) 2 (12): 980 (270), 1902 (Stephani 1902h).
- ** *Plagiochila variedentata* Steph., Bull. Herb. Boissier (sér. 2) 2 (10): 887 (256), 1902 (Stephani 1902g).
- ** *Plagiochila vastifolia* Steph., Bull. Herb. Boissier (sér. 2) 2 (8): 680 (217), 1902 (Stephani 1902a).
- ** *Plagiochila velata* Inoue et Piippo, Ann. Bot. Fenn. 26 (2): 207, 1989 (Piippo 1989b).
- * *Plagiochila venezuelana* Steph., Bull. Herb. Boissier (sér. 2) 5 (8): 749 (548), 1905 (Stephani 1905i).
- * *Plagiochila ventricosotrigona* Steph., Biblioth. Bot. 87 (2): 214, 1916 (Stephani 1916a).
- * *Plagiochila verrucosa* Steph., Bull. Herb. Boissier (sér. 2) 5 (9): 885 (551), 1905 (Stephani 1905g).
- * *Plagiochila vetustisilva* Steph., Sp. Hepat. (Stephani) 6: 245, 1922 (Stephani 1922).¹⁸²
- * *Plagiochila viminea* Spruce, Mem. Torrey Bot. Club 1 (3): 134, 1890 (Spruce 1890).
- * *Plagiochila viridis* Steph., Sp. Hepat. (Stephani) 6: 239, 1921 (Stephani 1921).
- ** *Plagiochila viridonigra* (E.A.Hodgs.) Inoue, Bryologist 68 (2): 218, 1965 (Inoue 1965b). Bas.: *Syzygiella viridonigra* E.A.Hodgs., Rec. Domin. Mus. 4 (11): 120, 1962 (Hodgson 1962a).
- ** *Plagiochila vittiana* Inoue, Beih. Nova Hedwigia 90: 171, 1988 (Inoue 1988a).
- ** *Plagiochila vittifolia* Steph., Sp. Hepat. (Stephani) 6: 239, 1921 (Stephani 1921).
- ** *Plagiochila vulcanica* Steph., Bull. Herb. Boissier (sér. 2) 2 (8): 671 (208), 1902 (Stephani 1902a).
- ** *Plagiochila wacei* S.W.Arnell ex Váňa et J.J.Engel, Mem. New York Bot. Gard. 105: 89, 2013 (Váňa and Engel 2013).
- * *Plagiochila wallisiana* Steph., Bull. Herb. Boissier (sér. 2) 5 (10): 936 (586), 1905 (Stephani 1905f).

182 *Plagiochila vetustisilva* is a doubtful taxon. The type specimen was burned in B (Piippo 1989b).

- ** *Plagiochila watsiana* J.J.Engel et G.L.Merr., *Nova Hedwigia* 91 (3/4): 511, 2010 (Engel and Smith Merrill 2010). *Nom. nov. pro Plagiochila watsii* Steph., *Sp. Hepat.* (Stephani) 6: 240, 1921 (Stephani 1921), *nom. illeg.*
- ** *Plagiochila wettsteiniana* S.W.Arnell, *Österr. Akad. Wiss., Math.-Naturwiss. Kl., Denkschr.* 111: 53, 1964 (Schiffner and Arnell 1964).
- * *Plagiochila weymouthiana* Steph., *Biblioth. Bot.* 87 (2): 215, 1916 (Stephani 1916a).
- ** *Plagiochila wiemanniana* S.W.Arnell, *Österr. Akad. Wiss., Math.-Naturwiss. Kl., Denkschr.* 111: 54, 1964 (Schiffner and Arnell 1964).
- *** *Plagiochila winteri* Steph., *Bull. Herb. Boissier (sér. 2)* 2 (12): 981 (271), 1902 (Stephani 1902h).
- ** *Plagiochila wrightii* Steph., *Bull. Herb. Boissier (sér. 2)* 2 (8): 681 (218), 1902 (Stephani 1902a).
- ** *Plagiochila xalapensis* Gottsche, *Mexik. Leverm.*: 21, 1863 (Gottsche 1863).
- * *Plagiochila xanthochroma* Spruce, *Trans. & Proc. Bot. Soc. Edinburgh* 15: 489, 1885 (Spruce 1885).
- * *Plagiochila yoshinagana* Steph., *Sp. Hepat.* (Stephani) 6: 242, 1922 (Stephani 1922).
- ** *Plagiochila zacuapana* Gottsche, *Mexik. Leverm.*: 20, 1863 (Gottsche 1863).
- ** ***Plagiochilidium* Herzog**, *Mitt. Inst. Allg. Bot. Hamburg* 7 (3): 186, 1931 (Herzog 1931a).
- ** *Plagiochilidium bidentulum* (Steph.) Grolle, *J. Hattori Bot. Lab.* 65: 408, 1988 (Grolle 1988c). Bas.: *Tylimanthus bidentulus* Steph., *Bull. Herb. Boissier (sér. 2)* 5 (12): 1134 (6), 1905 (Stephani 1905b).
- ** ***Plagiochilion* S.Hatt.**, *Biosphaera* 1 (1): 7, 1947 (Hattori 1947a).
- *** *Plagiochilion braunianum* (Nees) S.Hatt., *Biosphaera* 1 (1): 7, 1947 (Hattori 1947a). Bas.: *Jungermannia brauniana* Nees, *Enum. Pl. Crypt. Javae*: 80, 1830 (Nees 1830).
- ** *Plagiochilion combinatum* (Mitt.) Inoue, *J. Hattori Bot. Lab.* 27: 55, 1964 (Inoue 1964b). Bas.: *Plagiochila combinata* Mitt., *Fl. vit.*: 408, 1871 [1873] (Mitten 1871).
- *** *Plagiochilion conjugatum* (Hook.) R.M.Schust., *J. Hattori Bot. Lab.* 26: 285, 1963 (Schuster 1963b). Bas.: *Jungermannia conjugata* Hook., *Musci Exot.* 1: tab. 91, 1818 (Hooker 1818).
- ** *Plagiochilion fimbriatum* (Mitt.) Inoue, *J. Hattori Bot. Lab.* 27: 57, 1964 (Inoue 1964b). Bas.: *Plagiochila fimbriata* Mitt., *J. Proc. Linn. Soc., Bot.* 5 (18): 97, 1860 [1861] (Mitten 1860c).
- ** *Plagiochilion giulianettii* (Steph.) Inoue, *J. Hattori Bot. Lab.* 27: 57, 1964 (Inoue 1964b). Bas.: *Plagiochila giulianettii* Steph., *Bull. Herb. Boissier (sér. 2)* 4 (1): 30 (402), 1904 (Stephani 1904g).
- ** *Plagiochilion herzogii* Inoue, *Bull. Natl. Sci. Mus. Tokyo (n.ser.)* 14 (2): 270, 1971 (Inoue 1971c).
- ** *Plagiochilion intermedium* R.M.Schust., *Phytologia* 45 (5): 421, 1980 (Schuster 1980b).

- ** *Plagiochilium mayebarae* S.Hatt., J. Hattori Bot. Lab. 3: 39, 1948 [1950] (Hattori 1948a).
- *** *Plagiochilium oppositum* (Reinw., Blume et Nees) S.Hatt., Biosphaera 1 (1): 7, 1947 (Hattori 1947a). Bas.: *Jungermannia opposita* Reinw., Blume et Nees, Nova Acta Phys.-Med. Acad. Caes. Leop.-Carol. Nat. Cur. 12 (1): 236, 1824 [1825] (Reinwardt et al. 1824a).
- ** *Plagiochilium pachycephalum* (De Not.) Inoue, J. Hattori Bot. Lab. 27: 55, 1964 (Inoue 1964b). Bas.: *Plagiochila pachycephala* De Not., Epat. Borneo: 14, 1874 (De Notaris 1874).
- *** *Plagiochilium proliferum* (Mitt.) R.M.Schust., J. Hattori Bot. Lab. 26: 285, 1963 (Schuster 1963b). Bas.: *Plagiochila prolifera* Mitt., Bot. antarct. voy. II (Fl. Nov.-Zel. 2): 130, 1854 (Mitten 1854).
- ** *Plagiochilium theriotanum* (Steph.) Inoue, J. Hattori Bot. Lab. 27: 59, 1964 (Inoue 1964b). Bas.: *Plagiochila theriotana* Steph., Sp. Hepat. (Stephani) 6: 228, 1921 (Stephani 1921).
- ** ***Pseudolophocolea* R.M.Schust. et J.J.Engel**, Lindbergia 8 (2): 71, 1982 (Schuster and Engel 1982). Based on: *Pseudolophocolea* R.M.Schust. et J.J.Engel, Phytologia 47 (4): 310, 1981 (Schuster and Engel 1981).
- ** *Pseudolophocolea denticulata* R.M.Schust. et J.J.Engel, Lindbergia 8 (2): 73, 1982 (Schuster and Engel 1982). Based on: *Pseudolophocolea denticulata* R.M.Schust. et J.J.Engel, Phytologia 47 (4): 311, 1981 (Schuster and Engel 1981), *nom. inval.*
- ** ***Xenochila* R.M.Schust.**, Amer. Midl. Naturalist 62 (1): 15, 1959 (Schuster 1959a).
- ** *Xenochila integrifolia* (Mitt.) Inoue, Bull. Natl. Sci. Mus. Tokyo (n.ser.) 6 (4): 373, 1963 (Inoue 1963). Bas.: *Plagiochila integrifolia* Mitt., J. Proc. Linn. Soc., Bot. 5 (18): 96, 1860 [1861] (Mitten 1860c).

*** Pseudolepicoleaceae Fulford et J.Taylor

by M. von Konrat

Blepharostoma was recognized as an element within Pseudolepicoleaceae by Crandall-Stotler et al. (2009), but we follow the concept of Frey and Stech (2008) with *Blepharostoma* as the single genus in Blepharostomataceae.

- *** ***Archeophylla* R.M.Schust.**, J. Hattori Bot. Lab. 26: 263, 1963 (Schuster 1963b).
- ** *Archeophylla paradoxa* R.M.Schust., Trans. Brit. Bryol. Soc. 4 (5): 810, 1965 (Schuster 1965c).
- ** *Archeophylla pungens* (Herzog) R.M.Schust., Candollea 21 (1): 86, 1966 (Schuster 1966e). Bas.: *Blepharostoma pungens* Herzog, Rev. Bryol. Lichénol. 29 (3/4): 189, 1960 [1961] (Herzog 1960).

- *** *Archeophylla schusteri* (E.A.Hodgs. et Allison) R.M.Schust., J. Hattori Bot. Lab. 26: 263, 1963 (Schuster 1963b). Bas.: *Temnoma schusteri* E.A.Hodgs. et Allison, Trans. Roy. Soc. New Zealand, Bot. 1 (12): 147, 1962 (Hodgson and Allison 1962).
- *** ***Castanoclobos* J.J.Engel et Glenn**y, Novon 17 (4): 424, 2007 (Engel and Glenn 2007).
- *** *Castanoclobos julaceus* (Hatcher ex J.J.Engel) J.J.Engel et Glenn, Novon 17 (4): 425, 2007 (Engel and Glenn 2007). Bas.: *Leiomitra julacea* Hatcher ex J.J.Engel, Novon 9 (1): 26, 1999 (Engel 1999a).
- ** ***Chaetocolea* Spruce**, Trans. & Proc. Bot. Soc. Edinburgh 15: 346, 1885 (Spruce 1885).
- *** *Chaetocolea palmata* Spruce, Trans. & Proc. Bot. Soc. Edinburgh 15: 346, 1885 (Spruce 1885).
- *** ***Herzogiaria* Fulford ex Hässel**, Lindbergia 7 (1): 23, 1981 (Hässel 1981).
- *** *Herzogiaria teres* (Steph.) Fulford ex Hässel, Lindbergia 7 (1): 24, 1981 (Hässel 1981). Bas.: *Lepicolea teres* Steph., Bih. Kongl. Svenska Vetensk.-Akad. Handl. 26 (III, 17): 26, 1901 (Stephani 1901b).
- ** ***Isophyllaria* E.A.Hodgs. et Allison**, Trans. Roy. Soc. New Zealand, Bot. 3 (4): 68, 1965 (Hodgson 1965).
- *** *Isophyllaria attenuata* (Rodway) E.A.Hodgs., J. Roy. Soc. New Zealand 2 (1): 111, 1972 (Hodgson 1972). Bas.: *Isotachis attenuata* Rodway, Pap. & Proc. Roy. Soc. Tasmania 1916: 47, 1917 (Rodway 1917a).
- ** *Isophyllaria fuegiana* (Hässel) R.M.Schust., Beih. Nova Hedwigia 118: 141, 2000 (Schuster 2000a). Bas.: *Fulfordiella fuegiana* Hässel, Comun. Mus. Argent. Ci. Nat. "Bernardino Rivadavia," Ci. Bot. 2 (9): 48, 1974 (Hässel 1974).
- *** ***Pseudolepicolea* Fulford et J.Taylor**, Nova Hedwigia 1 (3/4): 412, 1959 [1960] (Fulford and Taylor 1959b).
- ** *Pseudolepicolea andoi* (R.M.Schust.) Inoue, Bull. Natl. Sci. Mus. Tokyo, B 4 (3): 94, 1978 (Inoue 1978a). Bas.: *Lophochaete andoi* R.M.Schust., J. Hattori Bot. Lab. 26: 261, 1963 (Schuster 1963b).
- ** *Pseudolepicolea fryei* (Perss.) Grolle et Ando, Hikobia 3 (3): 180, 1963 (Ando 1963). Bas.: *Lepicolea fryei* Perss., Bryologist 49 (2): 47, 1946 (Persson 1946).
- *** *Pseudolepicolea grolleana* (R.M.Schust.) Grolle, Ann. Bot. Fenn. 21 (1): 30, 1984 (Piippo 1984a). Bas.: *Archeochaete grolleana* R.M.Schust., Nova Hedwigia 15: 441, 1968 (Schuster 1968b).
- *** *Pseudolepicolea kuehnemannii* (R.M.Schust.) Hässel, Fl. Criptog. Tierra del Fuego 15: 125, 1975 (Hässel and Solari 1975). Bas.: *Archeochaete kuehnemannii* R.M.Schust., J. Hattori Bot. Lab. 26: 262, 1963 (Schuster 1963b).

- *** *Pseudolepicolea quadrilaciniata* (Sull.) Fulford et J.Taylor, *Nova Hedwigia* 1 (3/4): 413, 1959 [1960] (Fulford and Taylor 1959b). Bas.: *Sendtnera quadrilaciniata* Sull., Hooker's J. Bot. Kew Gard. Misc. 2: 317, 1850 (Sullivant 1850).
- *** *Pseudolepicolea temnomoides* (R.M.Schust.) Váňa et J.J.Engel, *Mem. New York Bot. Gard.* 105: 92, 2013 (Váňa and Engel 2013). Bas.: *Archeochaete temnomoides* R.M.Schust., *Candollea* 21 (1): 129, 1966 (Schuster 1966e).
- ** *Pseudolepicolea trollii* (Herzog) Grolle et Ando, *Hikobia* 3 (3): 177, 1963 (Ando 1963). Bas.: *Blepharostoma trollii* Herzog, *Ann. Bryol.* 12: 80, 1939 (Herzog 1939b).
- * *Pseudolepicolea trollii* var. *darjeelingensis* S.Hatt. et Mizut., *J. Hattori Bot. Lab.* 31: 252, 1968 (Hattori and Mizutani 1968).
- *** ***Temnoma* Mitt.**, *Handb. N. Zeal. fl.* 2: 750, 1867 (Hooker 1867).
- *** *Temnoma angustifolium* R.M.Schust., *Candollea* 21 (2): 279, 1966 [1967] (Schuster 1966c).
- *** *Temnoma chaetophyllum* R.M.Schust., *Phytologia* 39 (4): 239, 1978 (Schuster 1978a).
- ** *Temnoma palmatum* (Lindb. ex Pearson) R.M.Schust., *Bryologist* 62 (4): 240, 1959 [1960] (Schuster 1959c). Bas.: *Blepharostoma palmatum* Lindb. ex Pearson, *J. Bot.* 25: 193, 1887 (Pearson 1887a).
- ** *Temnoma palmatum* var. *cuneatum* R.M.Schust., *Candollea* 21 (2): 347, 1966 [1967] (Schuster 1966c).
- ** *Temnoma palmatum* var. *laxifolium* R.M.Schust., *Candollea* 21 (2): 345, 1966 [1967] (Schuster 1966c).
- ** *Temnoma palmatum* var. *pseudospiniferum* R.M.Schust., *Candollea* 21 (2): 348, 1966 [1967] (Schuster 1966c).
- ** *Temnoma patagonicum* R.M.Schust., *Candollea* 21 (2): 313, 1966 [1967] (Schuster 1966c).
- *** *Temnoma paucisetigerum* R.M.Schust., *Candollea* 21 (2): 266, 1966 [1967] (Schuster 1966c).
- *** *Temnoma pilosum* (A.Evans) R.M.Schust., *Bryologist* 62 (4): 240, 1959 [1960] (Schuster 1959c). Bas.: *Blepharostoma pilosum* A.Evans, *Bull. Torrey Bot. Club* 25 (8): 413, 1898 (Evans 1898).
- *** *Temnoma pulchellum* (Hook.) Mitt., *Handb. N. Zeal. fl.* 2: 753, 1867 (Hooker 1867). Bas.: *Jungermannia pulchella* Hook., *Musci Exot.* 1: tab. 94, 1818 (Hooker 1818).
- *** *Temnoma quadrifidum* (Mitt.) Mitt. ex E.A.Hodgs. et Allison, *Trans. Roy. Soc. New Zealand, Bot.* 1 (12): 142, 1962 (Hodgson and Allison 1962). Bas.: *Jungermannia quadrifida* Mitt., *Bot. antarct. voy. II (Fl. Nov.-Zel.)* 2: 128, 1854 (Mitten 1854).
- *** *Temnoma quadripartitum* (Hook.) Mitt., *J. Linn. Soc., Bot.* 15 (82): 68, 1876 (Mitten 1876a). Bas.: *Jungermannia quadripartita* Hook., *Musci Exot.* 2: tab. 117, 1820 (Hooker 1820).
- ** *Temnoma quadripartitum* var. *pseudopungens* R.M.Schust., *Candollea* 21 (2): 312, 1966 [1967] (Schuster 1966c).

- ** *Temnoma quadripartitum* var. *randii* (S.W.Arnell) R.M.Schust., *Candollea* 21 (2): 307, 1966 [1967] (Schuster 1966c). Bas.: *Lepidozia randii* S.W.Arnell, *Svensk Bot. Tidskr.* 47 (3): 417, 1953 (Arnell 1953c).
- *** *Temnoma setigerum* (Lindenb.) R.M.Schust., *Nova Hedwigia* 5: 35, 1963 (Schuster 1963c). Bas.: *Jungermannia setigera* Lindenb., *Syn. Hepat.* 1: 131, 1844 (Gottsche et al. 1844).
- ** *Temnoma setigerum* var. *hawaiicum* Inoue, *Bull. Natl. Sci. Mus. Tokyo* (n.ser.) 17 (3): 228, 1974 (Inoue 1974b).
- ** *Temnoma townrowii* R.M.Schust., *Candollea* 21 (2): 351, 1966 [1967] (Schuster 1966c).

*** Trichocoleaceae Nakai

by T. Katagiri

The treatment of Trichocoleaceae follows what was outlined in Katagiri and Deguchi (2012) and Katagiri et al. (2012, 2013). Recent nomenclatural and taxonomic notes can also be found in Katagiri (2013).

- *** ***Eotrichocolea* R.M.Schust.**, *J. Hattori Bot. Lab.* 26: 252, 1963 (Schuster 1963b).
- *** *Eotrichocolea furukii* T.Katag., *Bryologist* 115 (4): 519, 2012 (Katagiri et al. 2012).
- *** *Eotrichocolea polyacantha* (Hook.f. et Taylor) R.M.Schust., *J. Hattori Bot. Lab.* 26: 264, 1963 (Schuster 1963b). Bas.: *Jungermannia polyacantha* Hook.f. et Taylor, *London J. Bot.* 3: 290 [390], 1844 (Hooker and Taylor 1844a).
- *** ***Leiomitra* Lindb.**, *Acta Soc. Sci. Fenn.* 10: 515, 1875 (Lindberg 1875).
- ** **subg. *Brachygyna* R.M.Schust.**, *Nova Hedwigia* 73 (3/4): 480, 2001 (Schuster 2001b).
- ** *Leiomitra mastigophoroides* R.M.Schust., *Phytologia* 45 (5): 416, 1980 (Schuster 1980b).
- ** **subg. *Leiomitra***, *Nova Hedwigia* 73 (3/4): 480, 2001 (Schuster 2001b).
- *** *Leiomitra breviseta* (Steph.) R.M.Schust., *Beih. Nova Hedwigia* 118: 152, 2000 (Schuster 2000a). Bas.: *Trichocolea breviseta* Steph., *Sp. Hepat. (Stephani)* 4: 60, 1909 (Stephani 1909d).
- *** *Leiomitra capillata* Lindb., *Acta Soc. Sci. Fenn.* 10: 515, 1875 (Lindberg 1875).
- *** *Leiomitra elegans* (Lehm.) Hässel, *Novon* 12 (4): 465, 2002 (Hässel 2002). Bas.: *Trichocolea elegans* Lehm., *Nov. Stirp. Pug.* 10: 8, 1857 (Lehmann 1857).
- ** *Leiomitra elliottii* (Steph.) R.M.Schust., *Nova Hedwigia* 73 (3/4): 469, 2001 (Schuster 2001b). Bas.: *Trichocolea elliottii* Steph., *Sp. Hepat. (Stephani)* 4: 55, 1909 (Stephani 1909d).

- *** *Leiomitra flaccida* Spruce, Trans. & Proc. Bot. Soc. Edinburgh 15: 349, 1885 (Spruce 1885).
- ** *Leiomitra hirticaulis* R.M.Schust., Nova Hedwigia 73 (3/4): 472, 2001 (Schuster 2001b).
- *** *Leiomitra lanata* (Hook.) R.M.Schust., Phytologia 45 (5): 417, 1980 (Schuster 1980b). Bas.: *Jungermannia lanata* Hook., Musci Exot. 2: tab. 116, 1820 (Hooker 1820).
- *** *Leiomitra merrillana* (Steph.) T.Katag., Bryologist 115 (4): 488, 2012 (Katagiri and Deguchi 2012). Bas.: *Trichocolea merrillana* Steph., Sp. Hepat. (Stephani) 6: 374, 1923 (Stephani 1923).
- *** *Leiomitra paraphyllina* Spruce, Trans. & Proc. Bot. Soc. Edinburgh 15: 350, 1885 (Spruce 1885).
- ** *Leiomitra robusta* (Steph.) R.M.Schust., Nova Hedwigia 73 (3/4): 469, 2001 (Schuster 2001b). Bas.: *Trichocolea robusta* Steph., Sp. Hepat. (Stephani) 4: 58, 1909 (Stephani 1909d).
- ** *Leiomitra smaragdina* Hässel, Novon 12 (4): 467, 2002 (Hässel 2002).
- *** *Leiomitra tomentosa* (Sw.) Lindb., Acta Soc. Sci. Fenn. 10: 515, 1875 (Lindberg 1875). Bas.: *Jungermannia tomentosa* Sw., Prodr. (Swartz): 145, 1788 (Swartz 1788).
- *** ***Trichocolea Dumort.***, Commentat. Bot. (Dumortier): 113, 1822 (Dumortier 1822) nom. conserv.
- ** *Trichocolea argentea* Herzog, Arch. Bot. São Paulo 1 (2): 40, 1925 (Herzog 1925b).
- *** *Trichocolea brevifissa* Steph., Sp. Hepat. (Stephani) 4: 54, 1909 (Stephani 1909d).
- ** *Trichocolea comptonii* Pearson, J. Linn. Soc., Bot. 46 (305): 27, 1922 (Pearson 1922b).
- *** *Trichocolea filicaulis* Steph., Sp. Hepat. (Stephani) 4: 59, 1909 (Stephani 1909d).
- * *Trichocolea floccosa* Herzog et Hatcher, Lloydia 20 (3): 148, 1957 [1958] (Hatcher 1957).¹⁸³
- ** *Trichocolea geniculata* Pearson, J. Linn. Soc., Bot. 46 (305): 28, 1922 (Pearson 1922b).
- ** *Trichocolea gracillima* Austin, Bot. Gaz. 3 (1): 6, 1878 (Austin 1878).
- *** *Trichocolea hatcheri* E.A.Hodgs., Trans. Roy. Soc. New Zealand, Bot. 3 (4): 69, 1965 (Hodgson 1965).
- *** *Trichocolea iriomotensis* T.Katag., Hattoria 4: 6, 2013 (Katagiri et al. 2013).
- *** *Trichocolea japonica* T.Katag., Bryologist 114 (4): 744, 2011 (Katagiri et al. 2011).
- *** *Trichocolea magna* T.Katag., Hattoria 4: 7, 2013 (Katagiri et al. 2013).
- ** *Trichocolea minutifolia* Steph., J. & Proc. Roy. Soc. New South Wales 48 (1/2): 134, 1914 (Stephani and Watts 1914).
- *** *Trichocolea mollissima* (Hook.f. et Taylor) Gottsche, Ann. Sci. Nat. Bot. (sér. 5) 1: 132, 1864 (Gottsche 1864). Bas.: *Jungermannia mollissima* Hook.f. et Taylor, London J. Bot. 3: 290 [390], 1844 (Hooker and Taylor 1844a).

183 *Trichocolea floccosa* is treated as a variety of *Trichocolea flaccida* (= *Leiomitra flaccida* by Schultze-Motel & Menzel (1987)).

- *** *Trichocolea pluma* (Reinw., Blume et Nees) Mont., *Voy. Bonite, Bot.* 1: 238, 1846 (Montagne 1846). Bas.: *Jungermannia pluma* Reinw., Blume et Nees, *Nova Acta Phys.-Med. Acad. Caes. Leop.-Carol. Nat. Cur.* 12 (1): 209, 1824 [1825] (Reinwardt et al. 1824a).
- *** *Trichocolea rigida* R.M.Schust., *Nova Hedwigia* 15: 447, 1968 (Schuster 1968b).
- *** *Trichocolea rudimentaris* Steph., *Sp. Hepat. (Stephani)* 6: 376, 1923 (Stephani 1923).
- * *Trichocolea sprucei* Steph., *Sp. Hepat. (Stephani)* 4: 59, 1909 (Stephani 1909d). *Nom. nov. pro Trichocolea gracillima* Spruce, *J. Linn. Soc., Bot.* 30 (210): 353, 1895 (Gepp 1895b), *nom. illeg.*¹⁸⁴
- *** *Trichocolea tomentella* (Ehrh.) Dumort., *Syll. Jungerm. Europ.*: 67, 1831 (Dumortier 1831). Bas.: *Jungermannia tomentella* Ehrh., *Hannover. Mag.* 21 (18): 277, 1783 (Ehrhart 1783).
- ** *Trichocolea udarii* D.K.Singh, *Bull. Bot. Surv. India* 25: 177, 1983 [1985] (Singh 1983a).
- ** *Trichocolea watsiana* Steph., *J. & Proc. Roy. Soc. New South Wales* 48 (1/2): 135, 1914 (Stephani and Watts 1914).

Myliineae J.J.Engel et Braggins ex Crand.-Stotl., Váňa, Stotler et J.J.Engel

*** Myliaceae Schljakov

by L. Söderström

Söderström et al. (2015c) outlines the controversy as to the placement of *Mylia anomala* where they advocate recognition at the subgeneric level. It has previously been recognized as a segregate genus, *Leiomylia* J.J.Engel and Braggins (cf. also Shaw et al. 2015).

- *** ***Mylia* Gray**, *Nat. Arr. Brit. Pl.* 1: 693, 1821 (Gray 1821) *nom. conserv.*
- ** **subg. *Anomalae* (R.M.Schust. ex Potemkin) L.Söderstr.**, *Phytotaxa* 202 (1): 70, 2015 (Söderström et al. 2015c). Bas.: *Mylia* sect. *Anomalae* R.M.Schust. ex Potemkin, *Arctoa* 2: 1, 1993 (Potemkin and Kazanovsky 1993).
- *** *Mylia anomala* (Hook.) Gray, *Nat. Arr. Brit. Pl.* 1: 693, 1821 (Gray 1821). Bas.: *Jungermannia anomala* Hook., *Brit. Jungermann.*: tab. 34, 1813 (Hooker 1813).
- ** **subg. *Mylia***
- *** *Mylia taylorii* (Hook.) Gray, *Nat. Arr. Brit. Pl.* 1: 693, 1821 (Gray 1821). Bas.: *Jungermannia taylorii* Hook., *Brit. Jungermann.*: tab. 57, 1813 (Hooker 1813).
- *** *Mylia verrucosa* Lindb., *Acta Soc. Sci. Fenn.* 10: 236, 1872 [1873] (Lindberg 1872b).

¹⁸⁴ *Trichocolea sprucei* is suggested to be a variety of *Trichocolea flaccida* (= *Leiomitra flaccida*) in Schultze-Motel & Menzel (1987)

- *** *Mylia verrucosa* subsp. *nuda* (Inoue et B.Y.Yang) Potemkin et Kazan., Arctoa 2: 5, 1993 (Potemkin and Kazanovsky 1993). Bas.: *Mylia nuda* Inoue et B.Y.Yang, Taiwania 12 (1): 35, 1966 (Inoue and Yang 1966).

Perssoniellineae R.M.Schust.

*** Schistochilaceae H.Buch

by X. He and D. Glenny

He et al. (2014b) provided an historical account of Schistochilaceae summarizing studies that have showed that the phylogenetic structure of the family does not match units that have resulted from morphologically-based investigations. Further studies are needed until a natural division of the family can be proposed. Thus, we follow the broad concept of He and Glenny (2010) and He and Sun (2013) here, treating Schistochilaceae as comprising a single genus as discussed by He et al. (2014b).

- *** ***Schistochila Dumort.***, Recueil Observ. Jungerm.: 15, 1835 (Dumortier 1835).
 ** *Schistochila acuminata* Steph., Sp. Hepat. (Stephani) 4: 81, 1909 (Stephani 1909d).
 *** *Schistochila aequiloba* Steph., Sp. Hepat. (Stephani) 4: 80, 1909 (Stephani 1909d).
 *** *Schistochila alata* (Lehm.) Schiffn., Hepat. (Engl.-Prantl): 111, 1893 (Schiffner 1893b). Bas.: *Jungermannia alata* Lehm., Linnaea 4: 359, 1829 (Lehmann 1829).
 *** *Schistochila aligera* (Nees et Blume) J.B.Jack et Steph., Hedwigia 31 (1): 12, 1892 (Jack and Stephani 1892). Bas.: *Jungermannia aligera* Nees et Blume, Nova Acta Phys.-Med. Acad. Caes. Leop.-Carol. Nat. Cur. 11: 135, 1823 (Blume and Nees 1823).
 * *Schistochila aligera* var. *laxa* (Nees) Schiffn., Consp. Hepat. Arch. Ind.: 212, 1898 (Schiffner 1898b). Bas.: *Jungermannia aligera* γ *laxa* Nees, Enum. Pl. Crypt. Javae: 68, 1830 (Nees 1830).
 *** *Schistochila altissima* E.A.Hodgs., Trans. Roy. Soc. New Zealand, Bot. 3 (4): 85, 1965 (Hodgson 1965).
 ** *Schistochila altissima* subsp. *polystratos* R.M.Schust. et J.J.Engel, Phytologia 30 (4): 241, 1975 (Schuster and Engel 1975).
 *** *Schistochila antara* Grolle, J. Hattori Bot. Lab. 29: 249, 1966 (Grolle 1966h).
 *** *Schistochila appendiculata* (Hook.) Dumort. ex Trevis., Mem. Reale Ist. Lombardo Sci. (Ser. 3), C. Sci. Mat. 4 (13): 392, 1877 (Trevisan 1877). Bas.: *Jungermannia appendiculata* Hook., Musci Exot. 1: tab. 15, 1818 (Hooker 1818).
 * *Schistochila baileyana* Steph., Sp. Hepat. (Stephani) 4: 85, 1909 (Stephani 1909d).¹⁸⁵
 *** *Schistochila balfouriana* (Hook.f. et Taylor) Steph., Sp. Hepat. (Stephani) 4: 91, 1909 (Stephani 1909d). Bas.: *Jungermannia balfouriana* Hook.f. et Taylor, London J. Bot. 3: 556, 1844 (Hooker and Taylor 1844d).

¹⁸⁵ *Schistochila baileyana* is possibly conspecific with *Schistochila beccariana* (D. Meagher, pers. comm.).

- *** *Schistochila beccariana* (De Not.) Trevis., Mem. Reale Ist. Lombardo Sci. (Ser. 3), C. Sci. Mat. 4 (13): 392, 1877 (Trevisan 1877). Bas.: *Gottschea beccariana* De Not., Epat. Borneo: 9, 1874 (De Notaris 1874).
- *** *Schistochila berggrenii* (J.J.Engel et R.M.Schust.) Xiao L.He et Glenny, Austral. Syst. Bot. 23 (4): 237, 2010 (He and Glenny 2010). Bas.: *Pachyschistochila berggrenii* J.J.Engel et R.M.Schust., J. Hattori Bot. Lab. 58: 476, 1985 (Schuster and Engel 1985).
- *** *Schistochila berteroaana* (Hook.) Steph., Sp. Hepat. (Stephani) 4: 96, 1909 (Stephani 1909d). Bas.: *Jungermannia berteroaana* Hook., Bot. Misc. 2: 148, 1831 (Hooker 1831).
- *** *Schistochila blumei* (Nees) Trevis., Mem. Reale Ist. Lombardo Sci. (Ser. 3), C. Sci. Mat. 4 (13): 392, 1877 (Trevisan 1877). Bas.: *Jungermannia blumei* Nees, Nova Acta Phys.-Med. Acad. Caes. Leop.-Carol. Nat. Cur. 11: 136, 1823 (Blume and Nees 1823).
- ** *Schistochila brassii* Grolle, J. Hattori Bot. Lab. 31: 5, 1968 (Grolle 1968a).
- ** *Schistochila caledonica* Steph., Sp. Hepat. (Stephani) 4: 77, 1909 (Stephani 1909d).
- *** *Schistochila carnosa* (Mitt.) Steph., Sp. Hepat. (Stephani) 4: 93, 1909 (Stephani 1909d). Bas.: *Gottschea carnosa* Mitt., J. Linn. Soc., Bot. 15 (82): 72, 1876 (Mitten 1876a).
- *** *Schistochila caudata* R.M.Schust. et J.J.Engel, Phytologia 30 (4): 242, 1975 (Schuster and Engel 1975).
- *** *Schistochila childii* (R.M.Schust. et J.J.Engel) Xiao L.He et Glenny, Austral. Syst. Bot. 23 (4): 237, 2010 (He and Glenny 2010). Bas.: *Pachyschistochila childii* R.M.Schust. et J.J.Engel, J. Hattori Bot. Lab. 58: 471, 1985 (Schuster and Engel 1985).
- *** *Schistochila chlorophylla* (Colenso) E.A.Hodgs., Trans. & Proc. Roy. Soc. New Zealand 71 (3): 192, 1941 (Hodgson 1941). Bas.: *Gottschea chlorophylla* Colenso, Trans. & Proc. New Zealand Inst. 18: 240, 1886 (Colenso 1886b).
- *** *Schistochila ciliata* (Mitt.) Steph., Sp. Hepat. (Stephani) 4: 87, 1909 (Stephani 1909d). Bas.: *Gottschea ciliata* Mitt., Bot. antarct. voy. II (Fl. Nov.-Zel. 2): 151, 1854 (Mitten 1854).
- *** *Schistochila compacta* (Colenso) E.A.Hodgs., Trans. & Proc. Roy. Soc. New Zealand 71 (3): 192, 1941 (Hodgson 1941). Bas.: *Gottschea compacta* Colenso, Trans. & Proc. New Zealand Inst. 16: 349, 1884 (Colenso 1884).
- *** *Schistochila conchophylla* Herzog ex E.A.Hodgs. et Allison, Trans. & Proc. Roy. Soc. New Zealand 71 (3): 191, 1941 (Hodgson 1941).
- ** *Schistochila conchophylla* var. *multidentata* (J.J.Engel) Xiao L.He et Glenny, Phytotaxa 173 (1): 92, 2014 (He et al. 2014b). Bas.: *Gottschea conchophylla* var. *multidentata* J.J.Engel, Nova Hedwigia 93 (3/4): 407, 2011 (Engel 2011).
- *** *Schistochila congoana* Steph., Sp. Hepat. (Stephani) 4: 71, 1909 (Stephani 1909d).
- ** *Schistochila cookei* (H.A.Mill.) R.M.Schust., J. Hattori Bot. Lab. 42: 274, 1977 (Schuster and Engel 1977). Bas.: *Fulfordistria cookei* H.A.Mill., Phytologia 20 (5): 320, 1970 (Miller 1970).
- ** *Schistochila crinita* Grolle, J. Hattori Bot. Lab. 31: 7, 1968 (Grolle 1968a).

- *** *Schistochila cristata* Steph., Hedwigia 28 (4): 274, 1889 (Stephani 1889c).
- *** *Schistochila cunninghamii* Steph., Bih. Kongl. Svenska Vetensk.-Akad. Handl. 26 (III, 17): 27, 1901 (Stephani 1901b).
- ** *Schistochila doriae* (De Not.) Trevis., Mem. Reale Ist. Lombardo Sci. (Ser. 3), C. Sci. Mat. 4 (13): 392, 1877 (Trevisan 1877). Bas.: *Gottschea doriae* De Not., Epat. Borneo: 10, 1874 (De Notaris 1874).
- ** *Schistochila engleriana* Steph., Sp. Hepat. (Stephani) 4: 69, 1909 (Stephani 1909d).
- *** *Schistochila exalata* Herzog, Rev. Bryol. Lichénol. 29 (3/4): 191, 1960 [1961] (Herzog 1960).
- ** *Schistochila fijiensis* H.Buch et Herzog, Memoranda Soc. Fauna Fl. Fennica 27: 94, 1952 (Herzog 1952c).
- *** *Schistochila glaucescens* (Hook.) A.Evans, Rev. Bryol. 32 (4): 60, 1905 (Evans 1905c). Bas.: *Jungermannia glaucescens* Hook., Musci Exot. 1: tab. 39, 1818 (Hooker 1818).
- ** *Schistochila hattorii* Grolle, J. Hattori Bot. Lab. 29: 247, 1966 (Grolle 1966h).
- ** *Schistochila integerrima* Steph., Sp. Hepat. (Stephani) 6: 492, 1924 (Stephani 1924).
- ** *Schistochila isotachyphylla* (J.J.Engel et R.M.Schust.) Xiao L.He et Glenny, Austral. Syst. Bot. 23 (4): 237, 2010 (He and Glenny 2010). Bas.: *Paraschistochila isotachyphylla* J.J.Engel et R.M.Schust., J. Hattori Bot. Lab. 58: 429, 1985 (Schuster and Engel 1985).
- *** *Schistochila kirkiana* Steph., Sp. Hepat. (Stephani) 4: 86, 1909 (Stephani 1909d).
- *** *Schistochila kunkelii* S.W.Arnell, Ark. Bot. (n.ser.) 4 (1): 12, 1957 (Arnell 1957b).
- ** *Schistochila lacerata* Steph., Sp. Hepat. (Stephani) 6: 492, 1924 (Stephani 1924).
- *** *Schistochila lamellata* (Hook.) Dumort. ex A.Evans, Contr. U.S. Natl. Herb. 1 (5): 141, 1892 (Evans 1892b). Bas.: *Jungermannia lamellata* Hook., Musci Exot. 1: tab. 49, 1818 (Hooker 1818).
- *** *Schistochila laminigera* (Hook.f. et Taylor) A.Evans, Contr. U.S. Natl. Herb. 1 (5): 141, 1892 (Evans 1892b). Bas.: *Jungermannia laminigera* Hook.f. et Taylor, London J. Bot. 3: 456, 1844 (Hooker and Taylor 1844b).
- *** *Schistochila latiloba* (R.M.Schust. et J.J.Engel) Xiao L.He et Glenny, Austral. Syst. Bot. 23 (4): 237, 2010 (He and Glenny 2010). Bas.: *Pachyschistochila latiloba* R.M.Schust. et J.J.Engel, J. Hattori Bot. Lab. 58: 493, 1985 (Schuster and Engel 1985).
- *** *Schistochila lehmanniana* (Lindenb.) Steph., Sp. Hepat. (Stephani) 4: 86, 1909 (Stephani 1909d). Bas.: *Jungermannia lehmanniana* Lindenb., Nov. Stirp. Pug. 4: 60, 1832 (Lehmann 1832).
- *** *Schistochila leucophylla* (Lehm. ex Gottsche, Lindenb. et Nees) Steph., Sp. Hepat. (Stephani) 4: 98, 1910 (Stephani 1910b). Bas.: *Gottschea leucophylla* Lehm. ex Gottsche, Lindenb. et Nees, Syn. Hepat. 1: 17, 1844 (Gottsche et al. 1844).
- ** *Schistochila macrodonta* W.E.Nicholson, Symb. Sin. 5: 29, 1930 (Nicholson et al. 1930).
- ** *Schistochila minor* C.Gao et Y.H.Wu, J. Hattori Bot. Lab. 95: 267, 2004 (Gao and Wu 2004).

- *** *Schistochila monticola* R.M.Schust., Bull. Natl. Sci. Mus. Tokyo (n.ser.) 14 (4): 623, 1971 (Schuster 1971c).
- *** *Schistochila muricata* E.A.Hodgs. et Allison, Trans. & Proc. Roy. Soc. New Zealand 71 (3): 186, 1941 (Hodgson 1941).
- *** *Schistochila nadeaudiana* Steph., Sp. Hepat. (Stephani) 4: 76, 1909 (Stephani 1909d).
- ** *Schistochila neesii* (Mont.) Lindb., J. Linn. Soc., Bot. 13 (67): 194, 1872 [1873] (Lindberg 1872a). Bas.: *Gottschea neesii* Mont., Ann. Sci. Nat. Bot. (sér. 2) 19: 244, 1843 (Montagne 1843).
- *** *Schistochila nitidissima* R.M.Schust., Bull. Natl. Sci. Mus. Tokyo (n.ser.) 11 (1): 27, 1968 (Schuster 1968a).
- *** *Schistochila nivicola* (R.M.Schust. et J.J.Engel) Xiao L.He et Glenny, Austral. Syst. Bot. 23 (4): 237, 2010 (He and Glenny 2010). Bas.: *Pachyschistochila nivicola* R.M.Schust. et J.J.Engel, J. Hattori Bot. Lab. 58: 512, 1985 (Schuster and Engel 1985).
- *** *Schistochila nobilis* (Hook.) Trevis., Mem. Reale Ist. Lombardo Sci. (Ser. 3), C. Sci. Mat. 4 (13): 392, 1877 (Trevisan 1877). Bas.: *Jungermannia nobilis* Hook., Musci Exot. 1: tab. 11, 1818 (Hooker 1818).
- *** *Schistochila nuda* Horik., J. Sci. Hiroshima Univ., Ser. B, Div. 2, Bot. 2: 215, 1934 (Horikawa 1934).
- *** *Schistochila pachyphylla* (Lehm.) Steph., Sp. Hepat. (Stephani) 4: 99, 1910 (Stephani 1910b). Bas.: *Jungermannia pachyphylla* Lehm., Nov. Stirp. Pug. 6: 61, 1834 (Lehmann 1834).
- *** *Schistochila papillifera* R.M.Schust., Bull. Natl. Sci. Mus. Tokyo (n.ser.) 11 (1): 27, 1968 (Schuster 1968a).
- *** *Schistochila parvistipula* Rodway, Pap. & Proc. Roy. Soc. Tasmania 1916: 47, 1917 (Rodway 1917a).
- *** *Schistochila pellucida* R.M.Schust. et J.J.Engel, J. Hattori Bot. Lab. 58: 286, 1985 (Schuster and Engel 1985).
- *** *Schistochila piligera* Steph., Bot. Gaz. 15 (11): 291, 1890 (Stephani 1890c).
- *** *Schistochila pinnatifolia* (Hook.) Trevis., Mem. Reale Ist. Lombardo Sci. (Ser. 3), C. Sci. Mat. 4 (13): 392, 1877 (Trevisan 1877). Bas.: *Jungermannia pinnatifolia* Hook., Musci Exot. 2: tab. 114, 1820 (Hooker 1820).
- *** *Schistochila pluriciliata* R.M.Schust. et J.J.Engel, J. Hattori Bot. Lab. 58: 395, 1985 (Schuster and Engel 1985).
- *** *Schistochila pseudociliata* R.M.Schust., Bull. Natl. Sci. Mus. Tokyo (n.ser.) 14 (4): 623, 1971 (Schuster 1971c).
- *** *Schistochila quadrifida* A.Evans, Contr. U.S. Natl. Herb. 1 (5): 141, 1892 (Evans 1892b).
- ** *Schistochila ramentacea* Steph., Sp. Hepat. (Stephani) 6: 494, 1924 (Stephani 1924).
- *** *Schistochila reflexa* (Mont.) Steph., Sp. Hepat. (Stephani) 4: 97, 1910 (Stephani 1910b). Bas.: *Gottschea reflexa* Mont., Ann. Sci. Nat. Bot. (sér. 3) 4: 347, 1845 (Montagne 1845b).

- *** *Schistochila reflexistipula* J.J.Engel et R.M.Schust., *Phytologia* 30 (4): 245, 1975 (Schuster and Engel 1975).
- *** *Schistochila reinwardtii* (Nees) Schiffn., *Consp. Hepat. Arch. Ind.*: 218, 1898 (Schiffner 1898b). Bas.: *Jungermannia reinwardtii* Nees, *Enum. Pl. Crypt. Javae*: 66, 1830 (Nees 1830).
- *** *Schistochila repleta* (Hook.f. et Taylor) Steph., *Sp. Hepat. (Stephani)* 4: 90, 1909 (Stephani 1909d). Bas.: *Jungermannia repleta* Hook.f. et Taylor, *London J. Bot.* 3: 557, 1844 (Hooker and Taylor 1844d).
- ** *Schistochila rubriseta* Steph., *Sp. Hepat. (Stephani)* 4: 78, 1909 (Stephani 1909d).
- ** *Schistochila schultzei* Steph., *Sp. Hepat. (Stephani)* 6: 494, 1924 (Stephani 1924).
- *** *Schistochila sciophila* R.M.Schust., *Bull. Natl. Sci. Mus. Tokyo (n.ser.)* 14 (4): 632, 1971 (Schuster 1971c).
- *** *Schistochila sciurea* (Nees) Schiffn., *Nova Acta Acad. Caes. Leop.-Carol. German. Nat. Cur.* 60 (2): 251, 1893 (Schiffner 1893a). Bas.: *Jungermannia sciurea* Nees, *Enum. Pl. Crypt. Javae*: 34, 1830 (Nees 1830).
- *** *Schistochila simulans* (C.Massal.) Xiao L.He et Yu Sun, *Polish Bot. J.* 58 (2): 473, 2013 (He and Sun 2013). Bas.: *Cephalozia simulans* C.Massal., *Nuovo Giorn. Bot. Ital.* 17 (3): 236, 1885 (Massalongo 1885).
- *** *Schistochila spegazziniana* (C.Massal.) Steph., *Bih. Kongl. Svenska Vetensk.-Akad. Handl.* 26 (III, 6): 60, 1900 (Stephani 1900b). Bas.: *Gottschea spegazziniana* C.Massal., *Nuovo Giorn. Bot. Ital.* 17 (3): 206, 1885 (Massalongo 1885).
- *** *Schistochila sphagnoides* (Schwägr.) Lindb. ex Steph., *Sp. Hepat. (Stephani)* 4: 70, 1909 (Stephani 1909d). Bas.: *Jungermannia sphagnoides* Schwägr., *Hist. Musc. Hepat. Prodr.*: 23, 1814 (Schwägrichen 1814).
- *** *Schistochila splachnophylla* (Hook.f. et Taylor) Steph., *Bih. Kongl. Svenska Vetensk.-Akad. Handl.* 26 (III, 17): 28, 1901 (Stephani 1901b). Bas.: *Jungermannia splachnophylla* Hook.f. et Taylor, *London J. Bot.* 3: 455, 1844 (Hooker and Taylor 1844b).
- ** *Schistochila stratosata* (Mont.) A.Evans, *Contr. U.S. Natl. Herb.* 1 (5): 141, 1892 (Evans 1892b). Bas.: *Gottschea stratosata* Mont., *Ann. Sci. Nat. Bot. (sér. 3)* 4: 346, 1845 (Montagne 1845b).
- *** *Schistochila subhyalina* R.M.Schust., *Phytologia* 30 (4): 246, 1975 (Schuster and Engel 1975).
- ** *Schistochila subhyalina* var. *grandidentata* (J.J.Engel et R.M.Schust.) Xiao L.He et Glenn, *Austral. Syst. Bot.* 23 (4): 237, 2010 (He and Glenn 2010). Bas.: *Pachyschistochila subhyalina* var. *grandidentata* J.J.Engel et R.M.Schust., *J. Hattori Bot. Lab.* 58: 507, 1985 (Schuster and Engel 1985).
- *** *Schistochila subimmersa* J.J.Engel et R.M.Schust., *Phytologia* 30 (4): 247, 1975 (Schuster and Engel 1975).
- *** *Schistochila succulenta* (J.J.Engel et R.M.Schust.) Xiao L.He et Glenn, *Austral. Syst. Bot.* 23 (4): 237, 2010 (He and Glenn 2010). Bas.: *Pachyschistochila succulenta* J.J.Engel et R.M.Schust., *J. Hattori Bot. Lab.* 58: 517, 1985 (Schuster and Engel 1985).

- *** *Schistochila tasmanica* Steph., Sp. Hepat. (Stephani) 4: 86, 1909 (Stephani 1909d).
- *** *Schistochila trispiralis* R.M.Schust., Bull. Natl. Sci. Mus. Tokyo (n.ser.) 11 (1): 28, 1968 (Schuster 1968a).
- *** *Schistochila tuloides* (Hook.f. et Taylor) Steph., Sp. Hepat. (Stephani) 4: 89, 1909 (Stephani 1909d). Bas.: *Jungermannia tuloides* Hook.f. et Taylor, London J. Bot. 3: 558, 1844 (Hooker and Taylor 1844d).
- *** *Schistochila undulatifolia* Piippo, Ann. Bot. Fenn. 23 (1): 8, 1986 (Piippo 1986b).
- *** *Schistochila virescens* R.M.Schust., Phytologia 30 (4): 248, 1975 (Schuster and Engel 1975).
- *** *Schistochila vitreocincta* (Herzog) Xiao L.He et Glenney, Austral. Syst. Bot. 23 (4): 237, 2010 (He and Glenney 2010). Bas.: *Perssoniella vitreocincta* Herzog, Ark. Bot. (n.ser.) 2 (4): 265, 1952 (Herzog 1952g).
- ** *Schistochila volans* Grolle, J. Hattori Bot. Lab. 29: 244, 1966 (Grolle 1966h).
- *** *Schistochila yakushimensis* N.Ohnishi et Deguchi, Bryologist 106 (3): 451, 2003 (Ohnishi and Deguchi 2003).
- ** *Schistochila zantenii* Grolle, J. Hattori Bot. Lab. 29: 243, 1966 (Grolle 1966h).

Porellales Schljakov
Jubulineae Müll.Frib.

*** Frullaniaceae Lorch

by M. von Konrat, J. Hentschel, J. Uribe, P. Sukkharak, J. Heinrichs, J. Larraín, R. Stotler and L. Zhang

The subgeneric treatment of Frullaniaceae follows Hentschel et al. (2015), which includes a slight departure from formal infrageneric ranks where they apply clades referred to as *Diastaloba* I, II, III, and IV that appear to represent distinct subgenera.

- *** ***Frullania Raddi***, Jungermanniogr. Etrusca: 9, 1818 (Raddi 1818a).
- *** **subg. *Chonanthelia* Spruce**, Trans. & Proc. Bot. Soc. Edinburgh 15: 8, 1884 (Spruce 1884).
- * *Frullania flammea* Taylor, Trans. & Proc. Bot. Soc. Edinburgh 15: 29, 1884 (Spruce 1884).
- *** *Frullania lindmanii* Steph., Bih. Kongl. Svenska Vetensk.-Akad. Handl. 23 (III, 2): 19, 1897 (Stephani 1897a).
- ** *Frullania paranensis* Steph., Sp. Hepat. (Stephani) 4: 607, 1911 (Stephani 1911e).
- ** *Frullania spgazzinii* M.E.Reiner, Bol. Soc. Argent. Bot. 25 (3/4): 310, 1988 (Reiner 1988).
- *** **sect. *Chonanthelia* (Spruce) Yuzawa ex Hentschel et von Konrat**, Phytotaxa 220 (2): 129, 2015 (Hentschel et al. 2015). Bas.: *Frullania* subg. *Chonanthelia* Spruce, Trans. & Proc. Bot. Soc. Edinburgh 15: 8, 1884 (Spruce 1884).

- *** *Frullania gibbosa* Nees, Syn. Hepat. 3: 411, 1845 (Gottsche et al. 1845b).
- *** **sect. *Cladocarpicae* Spruce**, Trans. & Proc. Bot. Soc. Edinburgh 15: 43, 1884 (Spruce 1884).
- *** *Frullania beauverdii* Steph., Biblioth. Bot. 87 (2): 241, 1916 (Stephani 1916a).
- *** *Frullania blepharozia* Spruce, Trans. & Proc. Bot. Soc. Edinburgh 15: 18, 1884 (Spruce 1884).
- *** *Frullania bogotensis* Steph., Sp. Hepat. (Stephani) 4: 327, 1910 (Stephani 1910b).
- * *Frullania brachycarpa* Spruce, Bull. Soc. Bot. France (Congr. Bot.) 36: cciv, 1889 [1890] (Spruce 1889).
- *** *Frullania confertiloba* Steph., Sp. Hepat. (Stephani) 4: 326, 1910 (Stephani 1910b).
- *** *Frullania decidua* Spruce, Trans. & Proc. Bot. Soc. Edinburgh 15: 30, 1884 (Spruce 1884).
- *** *Frullania ecklonii* (Spreng.) Gottsche, Lindenb. et Nees, Syn. Hepat. 3: 413, 1845 (Gottsche et al. 1845b). Bas.: *Jungermannia ecklonii* Spreng, Syst. Veg. (ed. 16) [Sprengel] 4 (2): 324, 1827 (Sprengel 1827b).
- * *Frullania ecklonii* var. *robustior* (Gottsche, Lindenb. et Nees) Sim, Trans. Roy. Soc. South Africa 15 (1): 39, 1926 (Sim 1926). Bas.: *Frullania ecklonii* a *robustior* Gottsche, Lindenb. et Nees, Syn. Hepat. 5: 771, 1847 (Gottsche et al. 1847).
- * *Frullania ecklonii* var. *rufescens* Gottsche, Lindenb. et Nees, Syn. Hepat. 5: 771, 1847 (Gottsche et al. 1847).
- * *Frullania ecklonii* var. *tenerior* (Gottsche, Lindenb. et Nees) Sim, Trans. Roy. Soc. South Africa 15 (1): 39, 1926 (Sim 1926). Bas.: *Frullania ecklonii* b *tenerior* Gottsche, Lindenb. et Nees, Syn. Hepat. 5: 771, 1847 (Gottsche et al. 1847).
- *** *Frullania holostipula* S.Hatt. et D.G.Griffin, Misc. Bryol. Lichenol. 8 (3): 47, 1978 (Hattori and Griffin 1978).
- *** *Frullania megalostipa* Spruce, Trans. & Proc. Bot. Soc. Edinburgh 15: 15, 1884 (Spruce 1884).
- *** *Frullania obscura* (Sw.) Mont., Ann. Sci. Nat. Bot. (sér. 2) 14: 333, 1840 (Montagne 1840a). Bas.: *Jungermannia obscura* Sw., Fl. Ind. Occid. 3: 1869, 1806 (Swartz 1806).
- *** *Frullania obscura* var. *spiniloba* (Steph.) Hentschel et von Konrat, Phytotaxa 220 (2): 136, 2015 (Hentschel et al. 2015). Bas.: *Frullania spiniloba* Steph., Sp. Hepat. (Stephani) 4: 336, 1910 (Stephani 1910b).
- *** *Frullania ringens* Spruce, Trans. & Proc. Bot. Soc. Edinburgh 15: 17, 1884 (Spruce 1884).
- *** *Frullania rio-janeirensis* (Raddi) Ångstr., Öfvers. Kongl. Vetensk.-Akad. Förh. 33 (7): 88, 1876 [1877] (Ångström 1876). Bas.: *Frullanooides rio-janeirensis* Raddi, Critt. Brasil.: 13, 1822 (Raddi 1822).
- *** *Frullania sphaerocephala* Spruce, Trans. & Proc. Bot. Soc. Edinburgh 15: 17, 1884 (Spruce 1884).
- ** *Frullania tunguraguana* L.Clark et Frye, Bryologist 55 (2): 133, 1952 (Clark and Frye 1952). *Nom. nov. pro Frullania brachyclada* Spruce, Trans. & Proc. Bot. Soc. Edinburgh 15: 15, 1884 (Spruce 1884), *nom. illeg.*

- *** **sect. *Pluricarinatae* (Yuzawa, Mues et S.Hatt.) Hentschel et von Konrat**, *Phytotaxa* 220 (2): 129, 2015 (Hentschel et al. 2015). Bas.: *Frullania* ser. *Pluricarinatae* Yuzawa, Mues et S.Hatt., *J. Hattori Bot. Lab.* 63: 428, 1987 (Yuzawa et al. 1987).
- *** *Frullania albertii* Steph., *Biblioth. Bot.* 87 (2): 237, 1916 (Stephani 1916a).
- *** *Frullania arsenii* Steph., *Sp. Hepat.* (Stephani) 6: 530, 1924 (Stephani 1924).
- ** *Frullania bonariensis* M.E.Reiner, *Bol. Soc. Argent. Bot.* 25 (3/4): 313, 1988 (Reiner 1988).
- *** *Frullania cuencensis* Taylor, *London J. Bot.* 5: 406, 1846 (Taylor 1846b).
- *** *Frullania depressa* Mitt., *J. Proc. Linn. Soc., Bot.* 7 (27): 168, 1863 (Mitten 1863).
- *** *Frullania dusenii* Steph., *Arch. Mus. Nac. Rio de Janeiro* 13: 115 (9), 1905 (Stephani 1905c).
- *** *Frullania gradsteinii* Yuzawa, Mues et S.Hatt., *J. Hattori Bot. Lab.* 63: 429, 1987 (Yuzawa et al. 1987).
- *** *Frullania haematocysta* Spruce, *Trans. & Proc. Bot. Soc. Edinburgh* 15: 54, 1884 (Spruce 1884).
- *** *Frullania jelskii* Loitl., *Diagn. pl. nov.*: 18, 1894 (Loitlesberger 1894).
- *** *Frullania laxiflora* Spruce, *Trans. & Proc. Bot. Soc. Edinburgh* 15: 26, 1884 (Spruce 1884).
- * *Frullania laxiflora* var. *crossii* Spruce, *Trans. & Proc. Bot. Soc. Edinburgh* 15: 27, 1884 (Spruce 1884).
- *** *Frullania neurota* Taylor, *London J. Bot.* 5: 400, 1846 (Taylor 1846b).
- *** *Frullania planifolia* Steph., *Sp. Hepat.* (Stephani) 4: 337, 1910 (Stephani 1910b).
- *** *Frullania pluricarinata* Gottsche, *Ann. Sci. Nat. Bot.* (sér. 5) 1: 168, 1864 (Gottsche 1864).
- ** *Frullania sandvicensis* Ångstr., *Öfvers. Kongl. Vetensk.-Akad. Förh.* 29 (4): 28, 1872 (Ångström 1872).
- *** *Frullania standaertii* Steph., *Sp. Hepat.* (Stephani) 4: 342, 1910 (Stephani 1910b).
- *** *Frullania stenostipa* Spruce, *Trans. & Proc. Bot. Soc. Edinburgh* 15: 29, 1884 (Spruce 1884).
- *** *Frullania tetraptera* Nees et Mont., *Ann. Sci. Nat. Bot.* (sér. 2) 9: 47, 1838 (Montagne 1838).
- ** *Frullania trinervis* (Lehm.) Drège, *Flora, Beig.* 26: 186, 1843 (Drège 1843). Bas.: *Jungermannia trinervis* Lehm., *Linnaea* 9 (4): 426, 1835 (Lehmann 1835).¹⁸⁶
- *** *Frullania winteri* Steph., *Sp. Hepat.* (Stephani) 4: 338, 1910 (Stephani 1910b).
- *** *Frullania winteri* var. *vanderhammenii* (Haarbrink) Yuzawa, *J. Hattori Bot. Lab.* 70: 233, 1991 (Yuzawa 1991). Bas.: *Frullania vanderhammenii* Haarbrink, *Lindbergia* 7 (1): 56, 1981 (Haarbrink 1981).
- *** **subg. *Diastaloba* Spruce**, *Trans. & Proc. Bot. Soc. Edinburgh* 15: 55, 1884 (Spruce 1884).
- ** *Frullania antaresensis* S.Hatt., *J. Hattori Bot. Lab.* 47: 92, 1980 (Hattori 1980d).

¹⁸⁶ *Frullania trinervis* is possibly a species complex (Vanden Berghen 1976b).

- * *Frullania armatifolia* Verd., Bull. Jard. Bot. Buitenzorg (sér. 3) 12 (1): 61, 1932 (Verdoorn 1932a).
- *** *Frullania curvilobula* Schäf.-Verw., D.F.Peralta et S.M.Siqueira, Phytotaxa 57 (4): 27, 2012 (Schäfer-Verwimp et al. 2012).
- ** *Frullania gracilicaulis* S.Hatt., J. Hattori Bot. Lab. 43: 421, 1977 [1978] (Hattori 1977b).
- ** *Frullania humbertii* Vanden Berghen, Bull. Jard. Bot. Natl. Belg. 46 (1/2): 24, 1976 (Vanden Berghen 1976b).
- ** *Frullania hypoleucula* S.Hatt., J. Hattori Bot. Lab. 57: 413, 1984 (Hattori 1984a).
- ** *Frullania incurva* S.Hatt., J. Hattori Bot. Lab. 65: 431, 1988 (Hattori 1988a).
- ** *Frullania klotzschii* Nees, Sp. Hepat. (Stephani) 4: 558, 1911 (Stephani 1911e).
- ** *Frullania letestui* Vanden Berghen, Bull. Jard. Bot. Natl. Belg. 46 (1/2): 38, 1976 (Vanden Berghen 1976b).
- * *Frullania miradorensis* Lindenb. et Gottsche, Syn. Hepat. 5: 781, 1847 (Gottsche et al. 1847).
- * *Frullania odontostipa* Spruce, Mem. Torrey Bot. Club 1 (3): 120, 1890 (Spruce 1890).
- *** *Frullania pilibracteola* S.Hatt., J. Hattori Bot. Lab. 43: 428, 1977 [1978] (Hattori 1977b).
- *** *Frullania pilistipula* Steph., Sp. Hepat. (Stephani) 4: 648, 1911 (Stephani 1911e).
- *** *Frullania ramuligera* (Nees) Mont., Ann. Sci. Nat. Bot. (sér. 2) 18: 14, 1842 (Montagne 1842b). Bas.: *Jungermannia ramuligera* Nees, Enum. Pl. Crypt. Javae: 52, 1830 (Nees 1830).
- ** *Frullania subpilibracteola* S.Hatt., J. Hattori Bot. Lab. 43: 434, 1977 [1978] (Hattori 1977b).
- ** *Frullania subtilissima* (Nees ex Mont.) Lindenb., Syn. Hepat. 3: 443, 1845 (Gottsche et al. 1845b). Bas.: *Frullania atrata* β *subtilissima* Nees ex Mont., Ann. Sci. Nat. Bot. (sér. 2) 14: 333, 1840 (Montagne 1840a).
- ** *Frullania vandenberghenii* Pócs, Acta Bot. Acad. Sci. Hung. 25 (3/4): 229, 1979 [1980] (Bizot and Pócs 1979). *Nom. nov. pro Frullania epiphylla* Vanden Berghen, Bull. Jard. Bot. Natl. Belg. 46 (1/2): 30, 1976 (Vanden Berghen 1976b), *nom. illeg.*

grp. *Diastaloba* I

- ** *Frullania akiyamae* S.Hatt., J. Hattori Bot. Lab. 60: 240, 1986 (Hattori 1986b).
- ** *Frullania apiculata* (Reinw., Blume et Nees) Nees, Syn. Hepat. 3: 452, 1845 (Gottsche et al. 1845b). Bas.: *Jungermannia apiculata* Reinw., Blume et Nees, Nova Acta Phys.-Med. Acad. Caes. Leop.-Carol. Nat. Cur. 12 (1): 222, 1824 [1825] (Reinwardt et al. 1824a).
- ** *Frullania apiculata* var. *goebelii* Schiffn., Nova Acta Acad. Caes. Leop.-Carol. German. Nat. Cur. 60 (2): 222, 1893 (Schiffner 1893a).
- *** *Frullania armitiana* Steph., Sp. Hepat. (Stephani) 4: 538, 1911 (Stephani 1911e).

- ** *Frullania armitiana* var. *inflexula* S.Hatt., J. Hattori Bot. Lab. 65: 415, 1988 (Hattori 1988a).
- ** *Frullania aterrima* (Hook.f. et Taylor) Gottsche, Lindenb. et Nees, Syn. Hepat. 3: 450, 1845 (Gottsche et al. 1845b). Bas.: *Jungermannia aterrima* Hook.f. et Taylor, London J. Bot. 3: 395, 1844 (Hooker and Taylor 1844a).
- *** *Frullania attenuata* Steph., Sp. Hepat. (Stephani) 4: 538, 1911 (Stephani 1911e).
- *** *Frullania bella* Steph., Sp. Hepat. (Stephani) 4: 643, 1911 (Stephani 1911e).
- ** *Frullania changii* S.Hatt. et C.Gao, J. Jap. Bot. 60 (1): 1, 1985 (Hattori and Gao 1985).
- * *Frullania claviloba* Steph., Sp. Hepat. (Stephani) 4: 651, 1911 (Stephani 1911e).¹⁸⁷
- *** *Frullania colliculosa* von Konrat, Braggins, Hentschel et Heinrichs, Nova Hedwigia 91 (3/4): 494, 2010 (von Konrat et al. 2010b).
- *** *Frullania cordistipula* (Reinw., Blume et Nees) Nees, Voy. Amér. Mérid. 7 (2): 68, 1839 (Montagne 1839a). Bas.: *Jungermannia cordistipula* Reinw., Blume et Nees, Nova Acta Phys.-Med. Acad. Caes. Leop.-Carol. Nat. Cur. 12 (1): 220, 1824 [1825] (Reinwardt et al. 1824a).¹⁸⁸
- ** *Frullania cordistipula* var. *dentistipula* S.Hatt., J. Hattori Bot. Lab. 60: 242, 1986 (Hattori 1986b).
- * *Frullania cordistipula* var. *mutica* (Gottsche, Lindenb. et Nees) Schiffn., Consp. Hepat. Arch. Ind.: 323, 1898 (Schiffner 1898b). Bas.: *Frullania cordistipula* β *mutica* Gottsche, Lindenb. et Nees, Syn. Hepat. 3: 454, 1845 (Gottsche et al. 1845b).
- * *Frullania crenatiloba* Steph., Sp. Hepat. (Stephani) 6: 551, 1924 (Stephani 1924).¹⁸⁹
- *** *Frullania curvistipula* Steph., Sp. Hepat. (Stephani) 4: 548, 1911 (Stephani 1911e).
- ** *Frullania curvistipula* var. *falcatidentata* S.Hatt., Misc. Bryol. Lichenol. 9 (6): 124, 1982 (Hattori 1982a).
- ** *Frullania curvistipula* var. *lamii* Verd., Ann. Bryol., Suppl. 1: 91, 1930 (Verdoorn 1930c).
- ** *Frullania cuspidifolia* Steph., Sp. Hepat. (Stephani) 4: 543, 1911 (Stephani 1911e).
- * *Frullania degelii* S.W.Arnell, Svensk Bot. Tidskr. 53 (4): 503, 1959 (Arnell 1959).
- ** *Frullania dentifera* S.Hatt. et Streimann, J. Hattori Bot. Lab. 59: 102, 1985 (Hattori and Streimann 1985).
- *** *Frullania dentiloba* S.Hatt., J. Jap. Bot. 50 (6): 161, 1975 (Hattori 1975a).
- ** *Frullania durifolia* Steph., Hedwigia 33 (3): 162, 1894 (Stephani 1894d).
- ** *Frullania exilis* Taylor, London J. Bot. 5: 405, 1846 (Taylor 1846b).
- ** *Frullania gabonensis* Vanden Berghen, Bull. Jard. Bot. Natl. Belg. 46 (1/2): 81, 1976 (Vanden Berghen 1976b).
- *** *Frullania gracilis* (Reinw., Blume et Nees) Nees, Syn. Hepat. 3: 452, 1845 (Gottsche et al. 1845b). Bas.: *Jungermannia gracilis* Reinw., Blume et Nees, Nova Acta Phys.-Med. Acad. Caes. Leop.-Carol. Nat. Cur. 12 (1): 221, 1824 [1825] (Reinwardt et al. 1824a).

187 *Frullania claviloba* is possibly conspecific with *Frullania gracilis* (Söderström et al. 2010a).

188 *Frullania cordistipula* is a species complex also including *Frullania serrata*.

189 *Frullania crenatiloba* is conspecific with *Frullania apiculata* in Verdoorn (1930c), but it was accepted by So and Wang (2006).

- * *Frullania gracilis* var. *brevior* (Gottsche, Lindenb. et Nees) Schiffn., Consp. Hepat. Arch. Ind.: 327, 1898 (Schiffner 1898b). Bas.: *Frullania gracilis* β *brevior* Gottsche, Lindenb. et Nees, Syn. Hepat. 3: 453, 1845 (Gottsche et al. 1845b).
- ** *Frullania gracilis* var. *vittata* S.Hatt., J. Hattori Bot. Lab. 60: 243, 1986 (Hattori 1986b).
- ** *Frullania gracilis* subsp. *zenoskei* S.Hatt. et Thaithong, J. Hattori Bot. Lab. 44: 183, 1978 (Hattori and Thaithong 1978b).
- *** *Frullania hasskarliana* Lindenb., Syn. Hepat. 3: 453, 1845 (Gottsche et al. 1845b).
- ** *Frullania hasskarliana* var. *gracilis* S.Hatt., J. Hattori Bot. Lab. 60: 243, 1986 (Hattori 1986b).
- ** *Frullania hasskarliana* var. *parvidentata* S.Hatt., J. Hattori Bot. Lab. 60: 245, 1986 (Hattori 1986b).
- *** *Frullania hattorii* von Konrat et Braggins, New Zealand J. Bot. 41 (1): 56, 2003 (von Konrat and Braggins 2003).
- *** *Frullania hodgsoniae* von Konrat, Braggins, Hentschel et Heinrichs, Nova Hedwigia 91 (3/4): 492, 2010 (von Konrat et al. 2010b). *Nom. nov. pro Frullania aterrima* var. *lepida* E.A.Hodgs., Trans. & Proc. Roy. Soc. New Zealand 77 (3): 386, 1949 (Hodgson 1949).
- ** *Frullania hottana* S.Hatt., J. Hattori Bot. Lab. 40: 479, 1976 (Hattori 1976d).
- *** *Frullania inconstans* Verd., Ann. Bryol., Suppl. 1: 83, 1930 (Verdoorn 1930c).
- ** *Frullania inconstans* var. *grossedentata* Kamim. et S.Hatt., J. Hattori Bot. Lab. 37: 530, 1973 (Hattori and Kamimura 1973).
- *** *Frullania johnsonii* Steph., Hedwigia 33 (3): 163, 1894 (Stephani 1894d).
- ** *Frullania macgregorii* Steph., Hedwigia 33 (3): 154, 1894 (Stephani 1894d).
- ** *Frullania macgregorii* var. *rostellula* (S.Hatt.) S.Hatt., J. Hattori Bot. Lab. 51: 220, 1982 (Hattori 1982d). Bas.: *Frullania reimersii* var. *rostellula* S.Hatt., J. Hattori Bot. Lab. 38: 258, 1974 (Hattori 1974c).
- ** *Frullania madens* Steph., Sp. Hepat. (Stephani) 6: 553, 1924 (Stephani 1924).
- ** *Frullania mehrana* S.Hatt., Recent Adv. Bot.: 66, 1976 (Hattori 1976e).
- ** *Frullania motoyana* Steph., Sp. Hepat. (Stephani) 4: 646, 1911 (Stephani 1911e).
- * *Frullania multilacera* Steph., Sp. Hepat. (Stephani) 4: 650, 1911 (Stephani 1911e).¹⁹⁰
- ** *Frullania multilacera* subsp. *gracilior* S.Hatt., Mem. New York Bot. Gard. 45: 547, 1987 (Hattori 1987a).
- ** *Frullania multilacera* var. *lacerissima* S.Hatt., J. Hattori Bot. Lab. 39: 294, 1975 (Hattori 1975d).
- ** *Frullania multilaceroides* S.Hatt., Mem. New York Bot. Gard. 45: 549, 1987 (Hattori 1987a).
- ** *Frullania neosheana* S.Hatt., J. Hattori Bot. Lab. 45: 350, 1979 (Hattori 1979b).
- ** *Frullania papillata* Steph., Sp. Hepat. (Stephani) 4: 615, 1911 (Stephani 1911e).
- ** *Frullania pulogensis* Steph., Sp. Hepat. (Stephani) 4: 545, 1911 (Stephani 1911e).
- *** *Frullania purpurea* Steph., Sp. Hepat. (Stephani) 4: 626, 1911 (Stephani 1911e).

¹⁹⁰ *Frullania multilacera* is possibly conspecific with *Frullania vaga*.

- ** *Frullania reimersii* Verd., Ann. Bryol., Suppl. 1: 84, 1930 (Verdoorn 1930c).
- ** *Frullania saepidentata* S.Hatt. et Streimann, J. Hattori Bot. Lab. 59: 116, 1985 (Hattori and Streimann 1985).
- ** *Frullania schiffneri* Verd., Ann. Bryol. 2: 150, 1929 (Verdoorn 1929a).
- ** *Frullania schusterana* S.Hatt., J. Hattori Bot. Lab. 36: 411, 1972 [1973] (Hattori 1972b).
- ** *Frullania seriatifolia* Steph., Hedwigia 33 (3): 167, 1894 (Stephani 1894d).
- ** *Frullania serrata* Gottsche, Syn. Hepat. 3: 453, 1845 (Gottsche et al. 1845b).
- ** *Frullania serrata* var. *ceramensis* S.Hatt., J. Hattori Bot. Lab. 60: 247, 1986 (Hattori 1986b).
- ** *Frullania serrata* subsp. *grolleana* (S.Hatt.) S.Hatt., J. Hattori Bot. Lab. 51: 225, 1982 (Hattori 1982d). Bas.: *Frullania grolleana* S.Hatt., J. Hattori Bot. Lab. 36: 416, 1972 [1973] (Hattori 1972b).
- ** *Frullania serrata* var. *hamatispina* (S.Hatt.) S.Hatt., J. Hattori Bot. Lab. 51: 225, 1982 (Hattori 1982d). Bas.: *Frullania serrata* subsp. *hamatispina* S.Hatt., J. Hattori Bot. Lab. 38: 262, 1974 (Hattori 1974c).
- ** *Frullania serrata* var. *pertenuis* (Nees) Schiffn., Consp. Hepat. Arch. Ind.: 342, 1898 (Schiffner 1898b). Bas.: *Jungermannia cordistipula* γ *pertenuis* Nees, Enum. Pl. Crypt. Javae: 49, 1830 (Nees 1830).
- ** *Frullania serrata* subsp. *spinistipula* S.Hatt., J. Hattori Bot. Lab. 51: 225, 1982 (Hattori 1982d). *Nom. nov. pro Frullania spinistipula* S.Hatt., J. Hattori Bot. Lab. 36: 413, 1972 [1973] (Hattori 1972b), *nom. illeg.*
- ** *Frullania setacea* S.Hatt., J. Hattori Bot. Lab. 65: 447, 1988 (Hattori 1988a).
- ** *Frullania sheana* S.Hatt., J. Hattori Bot. Lab. 45: 356, 1979 (Hattori 1979b).
- ** *Frullania simmondsii* Steph., J. & Proc. Roy. Soc. New South Wales 48 (1/2): 109, 1914 (Stephani and Watts 1914).
- *** *Frullania sinuata* Sande Lac., Ned. Kruidk. Arch. 3: 424, 1854 [1855] (Sande Lacoste 1854).
- ** *Frullania steereana* S.Hatt., Mem. New York Bot. Gard. 45: 553, 1987 (Hattori 1987a).
- ** *Frullania stipatiloba* Steph., Hedwigia 33 (3): 168, 1894 (Stephani 1894d).
- ** *Frullania subdentata* Steph., Sp. Hepat. (Stephani) 4: 545, 1911 (Stephani 1911e).
- ** *Frullania subdentata* var. *latistipula* (S.Hatt.) S.Hatt., J. Hattori Bot. Lab. 51: 228, 1982 (Hattori 1982d). Bas.: *Frullania curvistipula* var. *latistipula* S.Hatt., J. Hattori Bot. Lab. 44: 530, 1978 (Hattori 1978b).
- ** *Frullania submultilacera* S.Hatt. et Koike, J. Hattori Bot. Lab. 75: 190, 1994 (Koike 1994).
- ** *Frullania subocellata* S.Hatt., J. Hattori Bot. Lab. 60: 248, 1986 (Hattori 1986b).
- *** *Frullania taxodiocola* R.M.Schust., Phytologia 53 (5): 364, 1983 (Schuster 1983b).
- *** *Frullania ternatensis* Gottsche, Syn. Hepat. 4: 465, 1846 (Gottsche et al. 1846).
- ** *Frullania ternatensis* var. *non-appendiculata* S.Hatt., J. Hattori Bot. Lab. 38: 174, 1974 (Hattori 1974a).

- *** *Frullania trichodes* Mitt., Bonplandia 10 (2): 19, 1862 (Mitten 1862).
- ** *Frullania vaga* Mitt., Fl. vit.: 418, 1871 [1873] (Mitten 1871).
- *** *Frullania vaginata* (Sw.) Nees, Syn. Hepat. 4: 465, 1846 (Gottsche et al. 1846). Bas.: *Jungermannia vaginata* Sw., Meth. Musc.: 35, 1781 (Swartz 1781).
- * *Frullania vaginata* var. *nigricans* (Gottsche, Lindenb. et Nees) Schiffn., Consp. Hepat. Arch. Ind.: 348, 1898 (Schiffner 1898b). Bas.: *Frullania vaginata* β *nigricans* Gottsche, Lindenb. et Nees, Syn. Hepat. 4: 465, 1846 (Gottsche et al. 1846).
- * *Frullania van-zantenii* Kamim. et S.Hatt., J. Hattori Bot. Lab. 37: 528, 1973 (Hattori and Kamimura 1973).¹⁹¹
- ** *Frullania venusta* S.Hatt., J. Hattori Bot. Lab. 38: 217, 1974 (Hattori 1974d).
- ** *Frullania verdoorniana* S.Hatt., J. Hattori Bot. Lab. 37: 122, 1973 (Hattori 1973b).
- *** *Frullania vitalii* Yuzawa et S.Hatt., J. Jap. Bot. 63 (1): 30, 1988 (Yuzawa and Hattori 1988a).
- ** *Frullania vittata* S.Hatt., J. Hattori Bot. Lab. 38: 270, 1974 (Hattori 1974c).
- ** *Frullania vivipara* Pócs, Fieldiana, Bot. (n.ser.) 47: 151, 2008 (Pócs 2008a).
- ** *Frullania wairua* von Konrat et Braggins, New Zealand J. Bot. 43 (4): 886, 2005 (von Konrat and Braggins 2005).
- ** *Frullania warnckeana* S.Hatt., J. Hattori Bot. Lab. 38: 213, 1974 (Hattori 1974d).
- ** *Frullania warnckeana* var. *dentosa* S.Hatt., Misc. Bryol. Lichenol. 7 (8): 162, 1977 (Hattori 1977a).

grp. Diastaloba II

- *** *Frullania baumannii* S.Hatt., J. Hattori Bot. Lab. 43: 410, 1977 [1978] (Hattori 1977b).
- *** *Frullania congesta* Gottsche, Lindenb. et Nees, Syn. Hepat. 3: 451, 1845 (Gottsche et al. 1845b). *Nom. nov. pro Jungermannia congesta* Hook.f. et Taylor, London J. Bot. 3: 396, 1844 (Hooker and Taylor 1844a), *nom. illeg.*
- ** *Frullania ocellata* S.Hatt. et Kamim., J. Hattori Bot. Lab. 37: 531, 1973 (Hattori and Kamimura 1973).
- *** *Frullania ptychantha* Mont., Ann. Sci. Nat. Bot. (sér. 2) 19: 257, 1843 (Montagne 1843).
- *** *Frullania repandistipula* Sande Lac., Ned. Kruidk. Arch. 3: 422, 1854 [1855] (Sande Lacoste 1854).
- ** *Frullania repandistipula* subsp. *queenslandica* S.Hatt., Mem. New York Bot. Gard. 45: 550, 1987 (Hattori 1987a).
- ** *Frullania repandistipula* subsp. *spinibractea* S.Hatt., Bull. Natl. Sci. Mus. Tokyo, B 1 (4): 150, 1975 (Hattori 1975f).

grp. Diastaloba III

- ** *Frullania grossiclava* Steph., Sp. Hepat. (Stephani) 4: 384, 1910 (Stephani 1910b).

¹⁹¹ *Frullania van-zantenii* is possibly conspecific with *Frullania serrata*.

- ** *Frullania loricata* Pearson, Forh. Vidensk.-Selsk. Kristiania 1890 (2): 6, 1891 (Pearson 1891).
- * *Frullania loricata* var. *laxa* Pearson, Forh. Vidensk.-Selsk. Kristiania 1890 (2): 8, 1891 (Pearson 1891).
- *** *Frullania usambarana* Schiffn., Hedwigia 33 (3): 160, 1894 (Stephani 1894d).
- ** *Frullania usambarana* var. *reducta* Vanden Berghen, Bull. Jard. Bot. Natl. Belg. 46 (1/2): 91, 1976 (Vanden Berghen 1976b).

grp. *Diastaloba* IV

- * *Frullania brunea* (Spreng.) Drège, Flora, Beig. 26: 186, 1843 (Drège 1843). Bas.: *Jungermannia brunea* Spreng. Syst. Veg. (ed. 16) [Sprengel] 4 (2): 325, 1827 (Sprengel 1827b).¹⁹²
- *** *Frullania caulisequa* (Nees) Mont., Ann. Sci. Nat. Bot. (sér. 2) 12: 51, 1839 (Montagne 1839c). Bas.: *Jungermannia caulisequa* Nees, Fl. Bras. (Martius) 1 (1): 373, 1833 (Nees 1833a).
- *** *Frullania grosifolia* Steph., Sp. Hepat. (Stephani) 4: 633, 1911 (Stephani 1911e).
- *** *Frullania hypoleuca* Nees, Observ. bot.: 470, 1843 (Gottsche et al. 1843).
- *** *Frullania lindenbergii* Lehm., Nov. Stirp. Pug. 8: 17, 1844 (Lehmann 1844).
- * *Frullania lindenbergii* var. *fusca* Gottsche, Lindenb. et Nees, Syn. Hepat. 5: 780, 1847 (Gottsche et al. 1847).
- ** *Frullania ponapensis* S.Hatt. et Koike, J. Hattori Bot. Lab. 75: 186, 1994 (Koike 1994).
- * *Frullania tricarinata* Sande Lac., Plagiochila Sandei: 10, 1856 (Sande Lacoste 1856c).¹⁹³

- * **subg. *Diversitextae* (Kamim.) S.Hatt.**, J. Hattori Bot. Lab. 59: 154, 1985 (Hattori and Lin 1985a). Bas.: *Frullania* subsect. *Diversitextae* Kamim., J. Hattori Bot. Lab. 24: 80, 1961 (Kamimura 1961).
- *** *Frullania diversitexta* Steph., Bull. Herb. Boissier 5 (2): 89, 1897 (Stephani 1897b).

- *** **subg. *Frullania***
- * *Frullania amamiensis* Kamim., Bull. Kochi Gakuen Jun. Coll. 1: 51, 1970 (Kamimura 1970).
- ** *Frullania amplicrania* Steph., Sp. Hepat. (Stephani) 4: 404, 1910 (Stephani 1910b).
- *** *Frullania ampullifera* J.B.Jack et Steph., Hedwigia 33 (3): 139, 1894 (Stephani 1894d).
- *** *Frullania andersonii* Ångstr., Öfvers. Kongl. Vetensk.-Akad. Förh. 30 (5): 144, 1873 (Ångström 1873).
- ** *Frullania angustistipa* Steph., Akad. Wiss. Wien, Math.-Naturwiss. Kl., Denkschr. 81: 297, 1907 (Stephani 1907a).

¹⁹² *Frullania brunea* belongs to the *Frullania lindenbergii* complex (Vanden Berghen 1976b).

¹⁹³ *Frullania tricarinata* is possibly conspecific with *Frullania hypoleuca* (Söderström et al. 2010a).

- ** *Frullania aposinensis* S.Hatt. et P.J.Lin, J. Hattori Bot. Lab. 59: 131, 1985 (Hattori and Lin 1985a). *Nom. nov. pro Frullania chinensis* Steph., Sp. Hepat. (Stephani) 4: 469, 1911 (Stephani 1911e), *nom. illeg.*
- ** *Frullania appendistipula* S.Hatt., J. Hattori Bot. Lab. 36: 424, 1972 [1973] (Hattori 1972b).
- ** *Frullania appendistipula* var. *spinifera* S.Hatt., J. Hattori Bot. Lab. 38: 226, 1974 (Hattori 1974c).
- ** *Frullania auriculata* S.Hatt., Bull. Natl. Sci. Mus. Tokyo, B 11 (1): 11, 1985 (Hattori 1985).
- ** *Frullania benjaminiana* Inoue, Bull. Natl. Sci. Mus. Tokyo, B 1 (3): 109, 1975 (Hattori 1975b).
- ** *Frullania bergmanii* S.Hatt., J. Hattori Bot. Lab. 38: 192, 1974 (Hattori 1974d).
- *** *Frullania berthoumieuvi* Steph., Hedwigia 33 (3): 140, 1894 (Stephani 1894d).
- ** *Frullania bhutanensis* S.Hatt., Fl. E. Himalaya 2: 232, 1971 (Hattori 1971a).
- ** *Frullania blastopetala* S.Hatt., J. Hattori Bot. Lab. 57: 407, 1984 (Hattori 1984a).
- *** *Frullania bonincola* S.Hatt., J. Hattori Bot. Lab. 44: 551, 1978 (Hattori 1978b). *Nom. nov. pro Frullania viridis* Horik., Sci. Rep. Tôhoku Imp. Univ., Ser. 4, Biol. 5 (4): 646, 1929 [1930] (Horikawa 1929c), *nom. illeg.*
- * *Frullania brevicealycina* Steph., Hedwigia 33 (3): 141, 1894 (Stephani 1894d).
- ** *Frullania brittoniae* A.Evans, Trans. Connecticut Acad. Arts 10 (1): 15, 1899 (Evans 1899).
- *** *Frullania bullata* Steph., Sp. Hepat. (Stephani) 4: 371, 1910 (Stephani 1910b).
- *** *Frullania caffraria* Steph., Hedwigia 33 (3): 141, 1894 (Stephani 1894d).
- *** *Frullania calcarata* Ångstr., Öfvers. Kongl. Vetensk.-Akad. Förh. 30 (5): 137, 1873 (Ångström 1873).
- ** *Frullania carrii* Kamim. et S.Hatt., J. Hattori Bot. Lab. 37: 520, 1973 (Hattori and Kamimura 1973).
- ** *Frullania chenii* S.Hatt. et P.J.Lin, J. Jap. Bot. 60 (4): 106, 1985 (Hattori and Lin 1985b).
- ** *Frullania chilensis* Steph., Hedwigia 33 (3): 142, 1894 (Stephani 1894d).
- *** *Frullania chodatii* Beauverd, Sp. Hepat. (Stephani) 6: 533, 1924 (Stephani 1924). Based on: *Frullania grandistipula* Steph., Sp. Hepat. (Stephani) 6: 533, 1924 (Stephani 1924), *nom. inval.*
- *** *Frullania cobrensis* Gottsche, Hedwigia 33 (3): 142, 1894 (Stephani 1894d).
- ** *Frullania consociata* Steph., Sp. Hepat. (Stephani) 4: 461, 1911 (Stephani 1911e).
- * *Frullania contracta* Steph., Sp. Hepat. (Stephani) 4: 469, 1911 (Stephani 1911e).¹⁹⁴
- * *Frullania cornuta* Steph., Sp. Hepat. (Stephani) 4: 467, 1911 (Stephani 1911e).¹⁹⁵
- *** *Frullania crassitexta* Steph., Sp. Hepat. (Stephani) 4: 423, 1910 (Stephani 1910b).
- *** *Frullania crispiplicata* Yuzawa et S.Hatt., J. Jap. Bot. 58 (2): 43, 1983 (Yuzawa and Hattori 1983).

194 *Frullania contracta* is conspecific with *Frullania squarrosa* in Verdoorn (1930c), but it was accepted by Hattori (1986e).

195 *Frullania cornuta* is closely related to the very variable *Frullania ornithocephala*.

- ** *Frullania cristata* S.Hatt., J. Hattori Bot. Lab. 49: 165, 1981 (Hattori 1981a).
- * *Frullania cuneiloba* Nees, Syn. Hepat. 3: 427, 1845 (Gottsche et al. 1845b).
- ** *Frullania cyparioides* (Schwägr.) Nees, Naturgesch. Eur. Leberm. 3: 210, 1838 (Nees 1838b). Bas.: *Jungermannia cyparioides* Schwägr., Hist. Musc. Hepat. Prodr.: 14, 1814 (Schwägrichen 1814).
- *** *Frullania davurica* Hampe ex Gottsche, Lindenb. et Nees, Syn. Hepat. 3: 422, 1845 (Gottsche et al. 1845b).
- ** *Frullania debilis* Steph. ex S.Hatt., J. Hattori Bot. Lab. 38: 190, 1974 (Hattori 1974d).
- ** *Frullania deppii* Lehm., Nov. Stirp. Pug. 8: 15, 1844 (Lehmann 1844).
- ** *Frullania diptera* (Lehm.) Drège, Flora, Beig. 26: 186, 1843 (Drège 1843). Bas.: *Jungermannia diptera* Lehm., Linnaea 9 (4): 425, 1835 (Lehmann 1835).
- *** *Frullania duthiana* Steph., Sp. Hepat. (Stephani) 4: 351, 1910 (Stephani 1910b).
- ** *Frullania duthiana* var. *appendiculata* S.Hatt., Fl. E. Himalaya 2: 234, 1971 (Hattori 1971a).
- ** *Frullania duthiana* var. *laevis* S.Hatt., Bull. Univ. Mus. Univ. Tokyo 8: 233, 1975 (Hattori 1975e).
- ** *Frullania duthiana* var. *szechuanensis* S.Hatt. et C.Gao, J. Jap. Bot. 60 (1): 2, 1985 (Hattori and Gao 1985).
- ** *Frullania echinantha* S.Hatt., J. Hattori Bot. Lab. 38: 233, 1974 (Hattori 1974c).
- ** *Frullania echinatella* S.Hatt., J. Hattori Bot. Lab. 65: 423, 1988 (Hattori 1988a).
- * *Frullania elegans* Lehm., Nov. Stirp. Pug. 10: 16, 1857 (Lehmann 1857).
- *** *Frullania elephantum* S.Hatt., J. Hattori Bot. Lab. 43: 416, 1977 [1978] (Hattori 1977b).
- ** *Frullania epiphylla* S.Hatt., J. Hattori Bot. Lab. 38: 235, 1974 (Hattori 1974c).
- * *Frullania epiphylla* subsp. *fijiensis* S.Hatt., Bull. Natl. Sci. Mus. Tokyo, B 11 (1): 14, 1985 (Hattori 1985).
- ** *Frullania erostrata* S.Hatt., J. Hattori Bot. Lab. 38: 237, 1974 (Hattori 1974c).
- * *Frullania esenbeckiana* Beauverd, Sp. Hepat. (Stephani) 6: 570, 1924 (Stephani 1924). *Nom. nov. pro Frullania grossiloba* Steph., Sp. Hepat. (Stephani) 4: 531, 1911 (Stephani 1911e), *nom. illeg.*
- ** *Frullania evelynae* S.Hatt. et Thaithong, J. Hattori Bot. Lab. 44: 179, 1978 (Hattori and Thaithong 1978b).
- * *Frullania evelynae* var. *devendrae* Sushil K.Singh et Barbhuiya, *Taiwania* 57 (2): 109, 2012 (Singh and Barbhuiya 2012).
- * *Frullania evelynae* var. *srivastavae* Sushil K.Singh et Barbhuiya, *Taiwania* 57 (2): 112, 2012 (Singh and Barbhuiya 2012).
- *** *Frullania eymae* S.Hatt., J. Hattori Bot. Lab. 39: 284, 1975 (Hattori 1975d).
- ** *Frullania eymae* var. *crispidentata* S.Hatt. et Streimann, J. Hattori Bot. Lab. 59: 105, 1985 (Hattori and Streimann 1985).
- *** *Frullania falciloba* Lehm., Nov. Stirp. Pug. 8: 20, 1844 (Lehmann 1844).
- ** *Frullania falsicornuta* S.Hatt., J. Hattori Bot. Lab. 60: 212, 1986 (Hattori 1986e).
- ** *Frullania fauriana* Steph., *Hedwigia* 33 (3): 144, 1894 (Stephani 1894d).

- ** *Frullania fengyangshanensis* R.L.Zhu et M.L.So, Bryologist 100 (3): 356, 1997 (Zhu and So 1997b).
- ** *Frullania ferdinandi-muelleri* Steph., Sp. Hepat. (Stephani) 4: 417, 1910 (Stephani 1910b).
- * *Frullania flexuosa* S.Hatt., J. Hattori Bot. Lab. 54: 146, 1983 (Hattori 1983).¹⁹⁶
- ** *Frullania fuscovirens* Steph., Sp. Hepat. (Stephani) 4: 401, 1910 (Stephani 1910b).
- ** *Frullania fuscovirens* var. *gemmipara* (R.M.Schust. et S.Hatt.) S.Hatt. et P.J.Lin, J. Hattori Bot. Lab. 59: 135, 1985 (Hattori and Lin 1985a). Bas.: *Frullania gemmipara* R.M.Schust. et S.Hatt., J. Hattori Bot. Lab. 44: 547, 1978 (Hattori 1978b).
- ** *Frullania gaoligongensis* X.L.Bai et C.Gao, Hikobia 13 (1): 87, 1999 (Bai and Gao 1999).
- ** *Frullania gemmulosa* S.Hatt. et Thaithong, J. Hattori Bot. Lab. 43: 449, 1977 [1978] (Hattori et al. 1977).
- *** *Frullania gigantea* Steph., Sp. Hepat. (Stephani) 4: 467, 1911 (Stephani 1911e).
- ** *Frullania giraldiana* C.Massal., Hepat. Shen-si: 41, 1897 (Massalongo 1897).¹⁹⁷
- ** *Frullania giraldiana* var. *handelii* (Verd.) S.Hatt., J. Hattori Bot. Lab. 36: 123, 1972 [1973] (Hattori 1972c). Bas.: *Frullania nepalensis* var. *handelii* Verd., Symb. Sin. 5: 41, 1930 (Nicholson et al. 1930).
- ** *Frullania globosa* S.Hatt. et Streimann, J. Hattori Bot. Lab. 59: 107, 1985 (Hattori and Streimann 1985).
- ** *Frullania grandilobula* S.Hatt. et Piippo, Acta Bot. Fenn. 133: 45, 1986 (Hattori and Piippo 1986).
- *** *Frullania grandistipula* Lindenb., Syn. Hepat. 3: 430, 1845 (Gottsche et al. 1845b).
- ** *Frullania hainanensis* S.Hatt. et P.J.Lin, J. Jap. Bot. 61 (10): 307, 1986 (Hattori and Lin 1986).
- ** *Frullania hamatiloba* Steph., Sp. Hepat. (Stephani) 4: 400, 1910 (Stephani 1910b).
- ** *Frullania handelii* Verd., Symb. Sin. 5: 36, 1930 (Nicholson et al. 1930).
- ** *Frullania handel-mazzettii* S.Hatt., J. Hattori Bot. Lab. 49: 150, 1981 (Hattori 1981a).
- ** *Frullania hattoriantha* Udar et V.Nath, Misc. Bryol. Lichenol. 9 (2): 44, 1981 (Udar and Nath 1981).
- * *Frullania hebridensis* Steph., Sp. Hepat. (Stephani) 4: 469, 1911 (Stephani 1911e).¹⁹⁸
- ** *Frullania hicksiae* S.Hatt., Cryptog. Bryol. Lichénol. 5 (1/2): 182, 1984 (Hattori 1984c).
- ** *Frullania higuchii* Yuzawa, Koike et S.Hatt., J. Hattori Bot. Lab. 75: 194, 1994 (Yuzawa and Koike 1994).
- ** *Frullania hirosii* S.Hatt., Bull. Natl. Sci. Mus. Tokyo, B 6 (1): 34, 1980 (Hattori 1980b).
- * *Frullania hirtiflora* Spruce, Trans. & Proc. Bot. Soc. Edinburgh 15: 35, 1884 (Spruce 1884).

196 *Frullania flexuosa* is possibly conspecific with *Frullania rubella*.

197 *Frullania giraldiana* belongs to the *Frullania nepalensis* complex (Hattori 1973b).

198 *Frullania hebridensis* belongs to the *Frullania ericoides* species complex (Verdoorn 1930c, 1930a).

- *** *Frullania howeana* Steph., J. & Proc. Roy. Soc. New South Wales 48 (1/2): 107, 1914 (Stephani and Watts 1914).
- ** *Frullania ignatovii* Sofronova, Mamontov et Potemkin, Novosti Sist. Nizš. Rast. 47: 335, 2013 (Sofronova et al. 2013).
- ** *Frullania incisoduthiana* S.Hatt., J. Hattori Bot. Lab. 46: 391, 1979 (Mizutani 1979c).
- * *Frullania incisoduthiana* var. *parva* S.Hatt., J. Hattori Bot. Lab. 46: 391, 1979 (Mizutani 1979c).
- * *Frullania incisositipula* Steph., Sp. Hepat. (Stephani) 6: 541, 1924 (Stephani 1924).
- ** *Frullania inflexiloba* S.Hatt., J. Hattori Bot. Lab. 57: 415, 1984 (Hattori 1984a).
- ** *Frullania inouei* S.Hatt., Bull. Natl. Sci. Mus. Tokyo, B 6 (1): 36, 1980 (Hattori 1980b).
- *** *Frullania irregularis* S.Hatt. et Piippo, Acta Bot. Fenn. 133: 46, 1986 (Hattori and Piippo 1986).
- *** *Frullania jacksonii* Gottsche, Hepat. Eur., Leberm. 29-30: no. 294, 1863 (Gottsche and Rabenhorst 1863).
- ** *Frullania jacobsonii* S.Hatt., Bull. Natl. Sci. Mus. Tokyo, B 12 (4): 129, 1986 (Hattori 1986c).
- * *Frullania jacquinotii* Gottsche, J. Bot. (Morot) 12: 138, 1898 (Bescherelle 1898).
- ** *Frullania jovetiana* von Konrat et Hentschel, Phytotaxa 220 (2): 135, 2015 (Hentschel et al. 2015). Based on: *Frullania pseudericoides* S.Hatt., Bull. Natl. Sci. Mus. Tokyo, B 12 (4): 132, 1986 (Hattori 1986c), *nom. illeg.*
- ** *Frullania kagoshimensis* Steph., Sp. Hepat. (Stephani) 4: 353, 1910 (Stephani 1910b).
- ** *Frullania kagoshimensis* subsp. *hunanensis* (S.Hatt.) S.Hatt. et P.J.Lin, J. Hattori Bot. Lab. 59: 137, 1985 (Hattori and Lin 1985a). Bas.: *Frullania hunanensis* S.Hatt., J. Hattori Bot. Lab. 49: 152, 1981 (Hattori 1981a).
- ** *Frullania kalimantanensis* S.Hatt., Bull. Natl. Sci. Mus. Tokyo, B 12 (4): 127, 1986 (Hattori 1986c).
- ** *Frullania kashyapii* Verd., Ann. Bryol. 5: 162, 1932 (Dixon et al. 1932).
- ** *Frullania kitagawana* S.Hatt., J. Hattori Bot. Lab. 57: 417, 1984 (Hattori 1984a).
- ** *Frullania laeviperiantha* X.L.Bai et C.Gao, Phytotaxa 220 (2): 136, 2015 (Hentschel et al. 2015). Based on: *Frullania laeviperiantha* X.L.Bai et C.Gao, Nova Hedwigia 70 (1/2): 135, 2000 (Bai and Gao 2000), *nom. inval.*
- * *Frullania lancistyla* Steph., Sp. Hepat. (Stephani) 4: 389, 1910 (Stephani 1910b).
- * *Frullania latiflora* Spruce, Trans. & Proc. Bot. Soc. Edinburgh 15: 34, 1884 (Spruce 1884).
- ** *Frullania latogaleata* Herzog, Trans. Brit. Bryol. Soc. 1 (3): 189, 1949 (Herzog 1949b).
- ** *Frullania lepida* S.Hatt. et Piippo, Acta Bot. Fenn. 133: 48, 1986 (Hattori and Piippo 1986).
- * *Frullania levieri* Steph., Sp. Hepat. (Stephani) 4: 388, 1910 (Stephani 1910b).
- ** *Frullania linii* S.Hatt., J. Hattori Bot. Lab. 49: 155, 1981 (Hattori 1981a).
- * *Frullania longistyla* Yuzawa et S.Hatt., J. Jap. Bot. 63 (11): 361, 1988 (Yuzawa and Hattori 1988b).¹⁹⁹

199 *Frullania longistyla* is closely related to *Frullania brevicalcina* (Yuzawa and Hattori 1988b).

- * *Frullania ludoviciae* Steph., Rev. Bryol. 35 (2): 29, 1908 (Stephani 1908l).²⁰⁰
- ** *Frullania lushanensis* S.Hatt. et P.J.Lin, J. Hattori Bot. Lab. 59: 137, 1985 (Hattori and Lin 1985a).
- * *Frullania macularis* Taylor, London J. Bot. 5: 403, 1846 (Taylor 1846b).
- ** *Frullania maymyoensis* Svihla, Bryologist 61 (4): 376, 1958 [1959] (Svihla 1958).
- ** *Frullania microauriculata* Verd., Ann. Bryol. 2: 126, 1929 (Verdoorn 1929a).
- ** *Frullania microauriculata* var. *rotundior* Verd., Ann. Jard. Bot. Buitenzorg 40: 141, 1929 (Verdoorn 1929b).
- ** *Frullania microrhyncha* L.Clark et Svihla, Bryologist 53 (1): 63, 1950 (Clark and Svihla 1950).
- ** *Frullania mizoramensis* Sushil K.Singh et Barbhuiya, Taiwania 57 (2): 106, 2012 (Singh and Barbhuiya 2012).
- * *Frullania montana* Steph., Sp. Hepat. (Stephani) 4: 455, 1911 (Stephani 1911e).²⁰¹
- ** *Frullania multituberculata* Hentschel et von Konrat, Phytotaxa 220 (2): 136, 2015 (Hentschel et al. 2015). *Nom. nov. pro Frullania kalimantanensis* Piippo et S.Hatt., J. Hattori Bot. Lab. 72: 117, 1992 (Piippo and Tan 1992), *nom. illeg.*
- ** *Frullania mutilata* Steph., Sp. Hepat. (Stephani) 4: 673, 1911 (Stephani 1911e).
- ** *Frullania nadeaudii* Steph., Sp. Hepat. (Stephani) 4: 465, 1911 (Stephani 1911e).
- *** *Frullania nepalensis* (Spreng.) Lehm. et Lindenb., Syn. Hepat. 3: 422, 1845 (Gottsche et al. 1845b). Bas.: *Jungermannia nepalensis* Spreng. Syst. Veg. (ed. 16) [Sprengel] 4 (2): 324, 1827 (Sprengel 1827b).²⁰²
- *** *Frullania nicholsonii* E.A.Hodgs., Trans. & Proc. Roy. Soc. New Zealand 77 (3): 368, 1949 (Hodgson 1949). *Nom. nov. pro Frullania berggrenii* W.E.Nicholson, Bryologist 28 (2): 17, 1925 (Nicholson 1925), *nom. illeg.*
- ** *Frullania nigricaulis* (Reinw., Blume et Nees) Nees, Syn. Hepat. 3: 457, 1845 (Gottsche et al. 1845b). Bas.: *Jungermannia nigricaulis* Reinw., Blume et Nees, Nova Acta Phys.-Med. Acad. Caes. Leop.-Carol. Nat. Cur. 12 (1): 225, 1824 [1825] (Reinwardt et al. 1824a).
- * *Frullania nigricaulis* var. *elongata* Verd., Ann. Bryol., Suppl. 1: 155, 1930 (Verdoorn 1930c).
- ** *Frullania nivimontana* S.Hatt., Bull. Natl. Sci. Mus. Tokyo, B 8 (3): 95, 1982 (Hattori 1982c).
- *** *Frullania nobilis* Steph., Hedwigia 33 (3): 154, 1894 (Stephani 1894d).
- ** *Frullania nobilis* var. *cochleata* (Steph.) S.Hatt., J. Hattori Bot. Lab. 59: 111, 1985 (Hattori and Streimann 1985). Bas.: *Frullania cochleata* Steph., Sp. Hepat. (Stephani) 4: 681, 1911 (Stephani 1911e).
- ** *Frullania novocurvirostris* S.Hatt., J. Hattori Bot. Lab. 49: 370, 1981 (Hattori 1981b). *Nom. nov. pro Frullania curvirostris* J.B.Jack et Steph., Hedwigia 33 (3): 143, 1894 (Stephani 1894d), *nom. illeg.*

200 *Frullania ludoviciae* seems to be close to *Frullania pusilla* (Hattori 1986e).

201 *Frullania montana* is possibly conspecific with *Frullania reflexistipula*.

202 *Frullania nepalensis* is a species complex (Hattori 1973b).

- ** *Frullania oahuensis* Hampe ex Gottsche, Lindenb. et Nees, *Observ. bot.*: 471, 1843 (Gottsche et al. 1843).
- ** *Frullania obovata* S.Hatt., *Bull. Natl. Sci. Mus. Tokyo*, B 8 (3): 97, 1982 (Hattori 1982c).
- ** *Frullania obtusangula* Hentschel et von Konrat, *Phytotaxa* 220 (2): 137, 2015 (Hentschel et al. 2015).
- ** *Frullania okinawensis* Kamim., *Misc. Bryol. Lichenol.* 9 (4): 90, 1982 (Kamimura 1982).
- ** *Frullania orbicularis* Austin, *Proc. Acad. Nat. Sci. Philadelphia* 21: 227, 1869 (Austin 1869).
- *** *Frullania orientalis* Sande Lac., *Plagiochila Sandei*: 10, 1856 (Sande Lacoste 1856c).
- ** *Frullania orinocensis* Spruce, *Trans. & Proc. Bot. Soc. Edinburgh* 15: 30, 1884 (Spruce 1884).
- *** *Frullania ornithocephala* (Reinw., Blume et Nees) Nees, *Syn. Hepat.* 3: 425, 1845 (Gottsche et al. 1845b). Bas.: *Jungermannia ornithocephala* Reinw., Blume et Nees, *Nova Acta Phys.-Med. Acad. Caes. Leop.-Carol. Nat. Cur.* 12 (1): 216, 1824 [1825] (Reinwardt et al. 1824a).
- * *Frullania ornithocephala* var. *major* (Nees) Schiffn., *Consp. Hepat. Arch. Ind.*: 336, 1898 (Schiffner 1898b). Bas.: *Jungermannia ornithocephala* β *major* Nees, *Enum. Pl. Crypt. Javae*: 47, 1830 (Nees 1830).
- ** *Frullania ornithocephala* var. *pilosa* Verd., *Ann. Bryol.* 2: 129, 1929 (Verdoorn 1929a).
- ** *Frullania ornithocephala* var. *tuberculosa* S.Hatt., *J. Hattori Bot. Lab.* 38: 179, 1974 (Hattori 1974a).
- ** *Frullania pachyderma* S.Hatt., *J. Hattori Bot. Lab.* 44: 525, 1978 (Hattori 1978b).
- ** *Frullania pallidevirens* Steph., *Sp. Hepat. (Stephani)* 4: 454, 1911 (Stephani 1911e).
- ** *Frullania pariharii* S.Hatt. et Thaitong, *J. Jap. Bot.* 53 (5): 130, 1978 (Hattori and Thaitong 1978a).
- * *Frullania parvifolia* Steph., *Sp. Hepat. (Stephani)* 4: 354, 1910 (Stephani 1910b).
- ** *Frullania pauciramea* Steph., *Sp. Hepat. (Stephani)* 4: 458, 1911 (Stephani 1911e).
- ** *Frullania pauciramea* var. *pauciramella* S.Hatt. et Piippo, *Acta Bot. Fenn.* 133: 50, 1986 (Hattori and Piippo 1986).
- ** *Frullania paucirameoides* S.Hatt. et Piippo, *Acta Bot. Fenn.* 133: 51, 1986 (Hattori and Piippo 1986).
- ** *Frullania pedicellata* Steph., *Bull. Herb. Boissier* 5 (2): 90, 1897 (Stephani 1897b).
- *** *Frullania physantha* Mitt., *J. Proc. Linn. Soc., Bot.* 5 (18): 121, 1860 [1861] (Mitten 1860c).
- ** *Frullania piptophylla* S.Hatt., *J. Hattori Bot. Lab.* 47: 87, 1980 (Hattori 1980d).
- ** *Frullania piptophylla* var. *minor* S.Hatt., *J. Hattori Bot. Lab.* 60: 247, 1986 (Hattori 1986b).
- ** *Frullania piptophylloides* S.Hatt., *J. Hattori Bot. Lab.* 47: 90, 1980 (Hattori 1980d).
- * *Frullania plicata* Hentschel et von Konrat, *Phytotaxa* 220 (2): 137, 2015 (Hentschel et al. 2015). *Nom. nov. pro Frullania acutiloba* Gerola, *Lav. Bot. Ist. Bot. Univ. Padova* 12: 477, 1947 (Gerola 1947), *nom. illeg.*

- ** *Frullania pocsantha* Thaithong et S.Hatt., Bull. Natl. Sci. Mus. Tokyo, B 3 (4): 149, 1977 (Thaithong and Hattori 1977).
- ** *Frullania pran-nathii* M.Dey et D.K.Singh, J. Jap. Bot. 83 (5): 281, 2008 (Dey and Singh 2008).
- ** *Frullania pringlei* Fulford et Sharp, Mem. New York Bot. Gard. 63: 45, 1990 (Fulford and Sharp 1990). *Nom. nov. pro Frullania spicata* Steph., Sp. Hepat. (Stephani) 4: 392, 1910 (Stephani 1910b), *nom. illeg.*
- ** *Frullania prominula* S.Hatt. et Streimann, J. Hattori Bot. Lab. 59: 112, 1985 (Hattori and Streimann 1985).
- ** *Frullania propaginea* S.Hatt. et Streimann, J. Hattori Bot. Lab. 59: 114, 1985 (Hattori and Streimann 1985).
- * *Frullania pseudericoides* S.Hatt., J. Hattori Bot. Lab. 51: 256, 1982 (Hattori 1982d). *Nom. nov. pro Frullania sharpii* subsp. *subrostrata* S.Hatt., J. Hattori Bot. Lab. 38: 265, 1974 (Hattori 1974c).
- ** *Frullania pseudoschensiana* S.Hatt., J. Hattori Bot. Lab. 47: 101, 1980 (Hattori 1980d).
- ** *Frullania pseudoschensiana* var. *darjeelingensis* S.Hatt., J. Hattori Bot. Lab. 49: 149, 1981 (Hattori 1981a).
- ** *Frullania pullei* Verd., Nova Guinea 14: 542, 1930 (Verdoorn 1930b).
- ** *Frullania pusilla* Mitt., Fl. vit.: 417, 1871 [1873] (Mitten 1871).
- *** *Frullania pycnantha* (Hook.f. et Taylor) Gottsche, Lindenb. et Nees, Syn. Hepat. 3: 411, 1845 (Gottsche et al. 1845b). Bas.: *Jungermannia pycnantha* Hook.f. et Taylor, London J. Bot. 3: 566, 1844 (Hooker and Taylor 1844d).
- ** *Frullania queenslandica* Steph., Sp. Hepat. (Stephani) 4: 424, 1910 (Stephani 1910b).
- ** *Frullania recurvistipula* S.Hatt., Bull. Natl. Sci. Mus. Tokyo, B 1 (3): 114, 1975 (Hattori 1975b).
- *** *Frullania reflexistipula* Sande Lac., Ned. Kruidk. Arch. 3: 422, 1854 [1855] (Sande Lacoste 1854).
- ** *Frullania reflexistipula* var. *squarrosa* S.Hatt. et Piippo, Acta Bot. Fenn. 133: 54, 1986 (Hattori and Piippo 1986).
- ** *Frullania remotidens* S.Hatt., J. Hattori Bot. Lab. 51: 257, 1982 (Hattori 1982d).
- * *Frullania reptans* Mitt., Bot. antarct. voy. II (Fl. Nov.-Zel. 2): 161, 1855 (Mitten 1855).
- *** *Frullania retusa* Mitt., J. Proc. Linn. Soc., Bot. 5 (18): 119, 1860 [1861] (Mitten 1860c).
- ** *Frullania retusa* var. *gymnantha* S.Hatt. et Thaithong, J. Jap. Bot. 53 (5): 131, 1978 (Hattori and Thaithong 1978a).
- ** *Frullania retusa* var. *hirsuta* S.Hatt. et Thaithong, J. Hattori Bot. Lab. 44: 191, 1978 (Hattori and Thaithong 1978b).
- *** *Frullania rhytocollea* Herzog, Symb. Sin. 5: 39, 1930 (Nicholson et al. 1930).
- ** *Frullania rhytidantha* S.Hatt., J. Hattori Bot. Lab. 47: 97, 1980 (Hattori 1980d).
- ** *Frullania rigida* Steph., Sp. Hepat. (Stephani) 4: 371, 1910 (Stephani 1910b).
- *** *Frullania riparia* Hampe, Nov. Stirp. Pug. 7: 14, 1838 (Lehmann 1838).

- ** *Frullania rizalii* Piippo et S.Hatt., J. Hattori Bot. Lab. 72: 119, 1992 (Piippo and Tan 1992).
- *** *Frullania rostellata* Mitt., Handb. N. Zeal. fl. 2: 755, 1867 (Hooker 1867).
- ** *Frullania rubella* Gottsche, Hedwigia 28 (3): 159, 1889 (Stephani 1889d).
- ** *Frullania rubella* var. *elongata* (Steph.) S.Hatt., J. Hattori Bot. Lab. 54: 166, 1983 (Hattori 1983). Bas.: *Frullania elongata* Steph., Sp. Hepat. (Stephani) 4: 423, 1910 (Stephani 1910b).
- ** *Frullania rupicola* Steph., Sp. Hepat. (Stephani) 6: 534, 1924 (Stephani 1924).
- ** *Frullania saipanensis* S.Hatt. et Koike, J. Hattori Bot. Lab. 75: 188, 1994 (Koike 1994).
- *** *Frullania schensiana* C.Massal., Hepat. Shen-si: 40, 1897 (Massalongo 1897).
- ** *Frullania schusteri* S.Hatt., Beih. Nova Hedwigia 90: 154, 1988 (Hattori 1988b).
- ** *Frullania scottiana* S.Hatt., Mem. New York Bot. Gard. 45: 551, 1987 (Hattori 1987a).
- ** *Frullania setchellii* Pearson, Univ. Calif. Publ. Bot. 10 (4): 326, 1923 (Pearson 1923).
- ** *Frullania shanensis* Svihla, Bryologist 60 (4): 359, 1957 (Svihla 1957).
- ** *Frullania sharpantha* Udar et Ad.Kumar, Misc. Bryol. Lichenol. 9 (9): 192, 1983 (Udar and Kumar 1983a).
- ** *Frullania sharpii* S.Hatt., J. Hattori Bot. Lab. 38: 180, 1974 (Hattori 1974a).
- ** *Frullania sinensis* Steph., Nuovo Giorn. Bot. Ital. (n.ser.) 13 (4): 349, 1906 (Lievier 1906).
- ** *Frullania sinosphaerantha* S.Hatt. et P.J.Lin, J. Hattori Bot. Lab. 59: 144, 1985 (Hattori and Lin 1985a).
- ** *Frullania sphaerantha* S.Hatt., J. Hattori Bot. Lab. 47: 99, 1980 (Hattori 1980d).
- ** *Frullania sphaerolobulata* S.H.Lin, Tunghai Journal 38: 104, 1997 (Lin and Chen 1997).
- *** *Frullania spinifera* Taylor, London J. Bot. 5: 407, 1846 (Taylor 1846b).
- ** *Frullania spinigastria* S.Hatt., J. Hattori Bot. Lab. 45: 358, 1979 (Hattori 1979b).
- ** *Frullania spiniplica* S.Hatt., J. Hattori Bot. Lab. 36: 428, 1972 [1973] (Hattori 1972b).
- *** *Frullania spongiosa* Steph., Hedwigia 33 (3): 147, 1894 (Stephani 1894d).
- ** *Frullania squamuligera* Spruce, Trans. & Proc. Bot. Soc. Edinburgh 15: 33, 1884 (Spruce 1884).
- *** *Frullania squarrosula* (Hook.f. et Taylor) Gottsche, Lindenb. et Nees, Syn. Hepat. 3: 412, 1845 (Gottsche et al. 1845b). Bas.: *Jungermannia squarrosula* Hook.f. et Taylor, London J. Bot. 4: 88, 1845 (Hooker and Taylor 1845).
- ** *Frullania subcaduca* S.Hatt., J. Hattori Bot. Lab. 38: 267, 1974 (Hattori 1974c).
- ** *Frullania subclavata* Steph., Sp. Hepat. (Stephani) 4: 354, 1910 (Stephani 1910b).
- ** *Frullania subnigricaulis* S.Hatt., J. Hattori Bot. Lab. 37: 89, 1973 (Hattori 1973c).
- ** *Frullania subnigricaulis* var. *subtruncata* S.Hatt., J. Hattori Bot. Lab. 39: 308, 1975 (Hattori 1975d).
- * *Frullania subpedicellata* S.Hatt., J. Hattori Bot. Lab. 47: 93, 1980 (Hattori 1980d).²⁰³
- ** *Frullania subsquarrosa* S.Hatt., J. Hattori Bot. Lab. 36: 429, 1972 [1973] (Hattori 1972b).

203 *Frullania subpedicellata* is possibly conspecific with *Frullania pedicellata*.

- ** *Frullania subvalida* S.Hatt. et Thaithong, J. Jap. Bot. 53 (6): 173, 1978 (Hattori and Thaithong 1978c).
- *** *Frullania svihlana* S.Hatt., J. Hattori Bot. Lab. 54: 180, 1983 (Hattori 1983).
- * *Frullania taiheizana* Horik., J. Sci. Hiroshima Univ., Ser. B, Div. 2, Bot. 2: 241, 1934 (Horikawa 1934).
- ** *Frullania tamsuina* Steph., Sp. Hepat. (Stephani) 4: 444, 1910 (Stephani 1910b).
- *** *Frullania taradakensis* Steph., Sp. Hepat. (Stephani) 4: 352, 1910 (Stephani 1910b).
- ** *Frullania tenuirostris* Steph., Sp. Hepat. (Stephani) 4: 462, 1911 (Stephani 1911e).
- ** *Frullania togashiana* S.Hatt., Bull. Natl. Sci. Mus. Tokyo, B 1 (3): 118, 1975 (Hattori 1975b).
- ** *Frullania tubercularis* S.Hatt. et P.J.Lin, J. Jap. Bot. 60 (4): 107, 1985 (Hattori and Lin 1985b).
- *** *Frullania usamiensis* Steph., Bull. Herb. Boissier 5 (2): 91, 1897 (Stephani 1897b).
- ** *Frullania valdiviensis* J.B.Jack et Steph., Hedwigia 33 (3): 149, 1894 (Stephani 1894d).
- ** *Frullania valida* Steph., Sp. Hepat. (Stephani) 4: 402, 1910 (Stephani 1910b).
- ** *Frullania variegata* Steph., Hedwigia 33 (3): 149, 1894 (Stephani 1894d).
- * *Frullania victoriensis* Steph., Sp. Hepat. (Stephani) 4: 418, 1910 (Stephani 1910b).
- *** *Frullania vittiana* S.Hatt., Bryologist 90 (4): 368, 1987 [1988] (Hattori 1987b).
- ** *Frullania wangii* S.Hatt. et P.J.Lin, J. Hattori Bot. Lab. 59: 146, 1985 (Hattori and Lin 1985a).
- *** *Frullania yuennanensis* Steph., Hedwigia 33 (3): 161, 1894 (Stephani 1894d).
- ** *Frullania yuennanensis* var. *siamensis* (N.Kitag., Thaithong et S.Hatt.) S.Hatt. et P.J.Lin, J. Hattori Bot. Lab. 59: 148, 1985 (Hattori and Lin 1985a). Bas.: *Frullania siamensis* N.Kitag., Thaithong et S.Hatt., J. Hattori Bot. Lab. 43: 452, 1977 [1978] (Hattori et al. 1977).
- ** *Frullania yuzawana* S.Hatt., J. Hattori Bot. Lab. 49: 157, 1981 (Hattori 1981a).
- ** *Frullania zangii* S.Hatt. et P.J.Lin, J. Hattori Bot. Lab. 59: 149, 1985 (Hattori and Lin 1985a).
- ** *Frullania zennoskeana* S.Hatt., J. Jap. Bot. 59 (10): 308, 1984 (Hattori 1984b).
- ** **sect. *Acutilobae* Verd.**, Ann. Bryol., Suppl. 1: 44, 1930 (Verdoorn 1930c).
- ** *Frullania allanii* E.A.Hodgs., Trans. & Proc. Roy. Soc. New Zealand 77 (3): 371, 1949 (Hodgson 1949).
- *** *Frullania clavata* (Hook.f. et Taylor) Gottsche, Lindenb. et Nees, Syn. Hepat. 3: 428, 1845 (Gottsche et al. 1845b). Bas.: *Jungermannia clavata* Hook.f. et Taylor, London J. Bot. 4: 88, 1845 (Hooker and Taylor 1845).
- ** *Frullania hamaticoma* Steph., Hedwigia 28 (3): 158, 1889 (Stephani 1889d).
- *** *Frullania monocera* (Hook.f. et Taylor) Gottsche, Lindenb. et Nees, Syn. Hepat. 3: 418, 1845 (Gottsche et al. 1845b). Bas.: *Jungermannia monocera* Hook.f. et Taylor, London J. Bot. 4: 89, 1845 (Hooker and Taylor 1845).
- ** *Frullania monocera* var. *acutiloba* (Mitt.) Hentschel et von Konrat, Phytotaxa 220 (2): 136, 2015 (Hentschel et al. 2015). Bas.: *Frullania acutiloba* Mitt., J. Proc. Linn. Soc., Bot. 5 (18): 120, 1860 [1861] (Mitten 1860c).

- ** *Frullania monocera* var. *depauperata* S.Hatt., J. Hattori Bot. Lab. 57: 419, 1984 (Hattori 1984a).
- ** *Frullania monocera* var. *schiffneri* (Verd.) S.Hatt., J. Hattori Bot. Lab. 46: 120, 1979 (Hattori 1979a). Bas.: *Frullania acutiloba* var. *schiffneri* Verd., Ann. Bryol. 2: 123, 1929 (Verdoorn 1929a).
- *** *Frullania monocera* var. *subhampeana* (E.A.Hodgs.) Hentschel et von Konrat, Phytotaxa 220 (2): 136, 2015 (Hentschel et al. 2015). Bas.: *Frullania subhampeana* E.A.Hodgs., Trans. & Proc. Roy. Soc. New Zealand 77 (3): 370, 1949 (Hodgson 1949).
- *** *Frullania monocera* var. *undulata* (Kamim.) Hentschel et von Konrat, Phytotaxa 220 (2): 136, 2015 (Hentschel et al. 2015). Bas.: *Frullania undulata* Kamim., J. Hattori Bot. Lab. 24: 50, 1961 (Kamimura 1961).
- ** *Frullania osumiensis* (S.Hatt.) S.Hatt., J. Hattori Bot. Lab. 16: 87, 1956 (Iwatsuki and Hattori 1956). Bas.: *Frullania hampeana* var. *osumiensis* S.Hatt., Bull. Tokyo Sci. Mus. 11: 144, 1944 (Hattori 1944d).
- * *Frullania pallidula* S.Hatt., Beih. Nova Hedwigia 90: 152, 1988 (Hattori 1988b).
- ** *Frullania pseudomonocera* S.Hatt., J. Hattori Bot. Lab. 60: 216, 1986 (Hattori 1986e).
- ** *Frullania seriata* Gottsche, Hedwigia 28 (3): 160, 1889 (Stephani 1889d).
- ** *Frullania spinistipula* Steph., Sp. Hepat. (Stephani) 4: 463, 1911 (Stephani 1911e).
- ** *Frullania streimannii* S.Hatt., J. Hattori Bot. Lab. 54: 176, 1983 (Hattori 1983).
- *** **sect. *Australes* Verd.**, Ann. Bryol., Suppl. 1: 58, 1930 (Verdoorn 1930c).
- *** *Frullania anomala* E.A.Hodgs., Trans. & Proc. Roy. Soc. New Zealand 77 (3): 374, 1949 (Hodgson 1949).
- * *Frullania baileyana* Steph., Sp. Hepat. (Stephani) 4: 417, 1910 (Stephani 1910b).
- *** *Frullania baladina* Gottsche, Hedwigia 33 (3): 140, 1894 (Stephani 1894d).²⁰⁴
- * *Frullania belmorensis* Steph., J. & Proc. Roy. Soc. New South Wales 48 (1/2): 106, 1914 (Stephani and Watts 1914).
- *** *Frullania campanulata* Sande Lac., Ned. Kruidk. Arch. 3: 422, 1854 [1855] (Sande Lacoste 1854).
- ** *Frullania campanulata* var. *caduca* Verd., Ann. Bryol., Suppl. 1: 41, 1930 (Verdoorn 1930c).
- ** *Frullania campanulata* var. *malesiaca* (Verd.) S.Hatt., Bull. Natl. Sci. Mus. Tokyo, B 1 (4): 158, 1975 (Hattori 1975f). Bas.: *Frullania malesiaca* Verd., Ann. Bryol., Suppl. 1: 59, 1930 (Verdoorn 1930c).
- * *Frullania cataractarum* Steph., Sp. Hepat. (Stephani) 4: 657, 1911 (Stephani 1911e).
- * *Frullania crawfordii* Steph., Hedwigia 33 (3): 143, 1894 (Stephani 1894d).
- *** *Frullania dentata* S.Hatt., J. Hattori Bot. Lab. 38: 231, 1974 (Hattori 1974c).
- ** *Frullania dentata* var. *secernens* S.Hatt., J. Hattori Bot. Lab. 65: 422, 1988 (Hattori 1988a).
- *** *Frullania errans* Verd., Ann. Bryol., Suppl. 1: 59, 1930 (Verdoorn 1930c).

²⁰⁴ *Frullania baladina* is a species complex also including *Frullania fulfordiae*.

- ** *Frullania errans* var. *angulistipula* S.Hatt., J. Hattori Bot. Lab. 36: 431, 1972 [1973] (Hattori 1972b).
- *** *Frullania fugax* (Hook.f. et Taylor) Gottsche, Lindenb. et Nees, Syn. Hepat. 3: 445, 1845 (Gottsche et al. 1845b). Bas.: *Jungermannia fugax* Hook.f. et Taylor, London J. Bot. 4: 87, 1845 (Hooker and Taylor 1845).²⁰⁵
- ** *Frullania fulfordiae* S.Hatt., Bryologist 90 (4): 365, 1987 [1988] (Hattori 1987b).
- *** *Frullania glomerata* (Lehm. et Lindenb.) Nees et Mont., Ann. Sci. Nat. Bot. (sér. 2) 9: 46, 1838 (Montagne 1838). Bas.: *Jungermannia glomerata* Lehm. et Lindenb., Nov. Stirp. Pug. 5: 21, 1833 (Lehmann 1833).
- *** *Frullania incumbens* Mitt., Bot. antarct. voy. II (Fl. Nov.-Zel. 2): 162, 1855 (Mitten 1855).
- *** *Frullania inflexa* Mitt., J. Proc. Linn. Soc., Bot. 5 (18): 120, 1860 [1861] (Mitten 1860c).
- ** *Frullania media* (E.A.Hodgs.) S.Hatt., J. Hattori Bot. Lab. 54: 153, 1983 (Hattori 1983). Bas.: *Frullania fugax* var. *media* E.A.Hodgs., Trans. & Proc. Roy. Soc. New Zealand 77 (3): 375, 1949 (Hodgson 1949).
- ** *Frullania mizutanii* Kamim. et S.Hatt., J. Hattori Bot. Lab. 37: 524, 1973 (Hattori and Kamimura 1973).
- *** *Frullania obscurifolia* Mitt., Philos. Trans. 168: 400, 1879 (Mitten 1879).
- *** *Frullania patagonica* Steph., Kungl. Svenska Vetensk.-Akad. Handl. (n.ser.) 46 (9): 88, 1911 (Stephani 1911b).
- ** *Frullania pentapleura* Taylor, London J. Bot. 5: 402, 1846 (Taylor 1846b).
- ** *Frullania polyptera* Taylor, London J. Bot. 5: 401, 1846 (Taylor 1846b).
- ** *Frullania polyptera* var. *angustata* (Mitt.) S.Hatt., Bull. Natl. Sci. Mus. Tokyo, B 1 (2): 74, 1975 (Hattori 1975g). Bas.: *Frullania angustata* Mitt., J. Proc. Linn. Soc., Bot. 5 (18): 122, 1860 [1861] (Mitten 1860c).
- ** *Frullania probosciphora* Taylor, London J. Bot. 5: 402, 1846 (Taylor 1846b).
- ** *Frullania pulchella* Herzog, Rev. Bryol. Lichénol. 23 (1/2): 60, 1954 (Herzog 1954).
- *** *Frullania sinskeana* J.J.Engel et B.C.Tan, J. Hattori Bot. Lab. 60: 335, 1986 (Tan and Engel 1986). *Nom. nov. pro Frullania spathulistipa* Steph., Sp. Hepat. (Stephani) 4: 415, 1910 (Stephani 1910b), *nom. illeg.*
- ** *Frullania socotrana* Mitt., Trans. Roy Soc. Edinburgh 31: 335, 1888 (Mitten 1888).
- * *Frullania solanderiana* Colenso, Trans. & Proc. New Zealand Inst. 21: 75, 1889 (Colenso 1889).²⁰⁶
- ** *Frullania subincumbens* S.Hatt., Bryologist 90 (4): 367, 1987 [1988] (Hattori 1987b).
- * *Frullania subtropica* Steph., Sp. Hepat. (Stephani) 4: 416, 1910 (Stephani 1910b).
- * *Frullania tjibodensis* S.Hatt. et Thaithong, J. Jap. Bot. 52 (10): 289, 1977 (Hattori and Thaithong 1977).²⁰⁷

205 *Frullania fugax* is a species complex possibly including *Frullania baileyana*, *Frullania belmorensis*, *Frullania cataractarum*, *Frullania media* and *Frullania subtropica* (Hattori 1979a).

206 *Frullania solanderiana* is morphologically similar to *Frullania pentapleura* and possibly conspecific.

207 *Frullania tjibodensis* is possibly conspecific with *Frullania campanulata* (Söderström et al. 2010a).

- ** *Frullania tuyamae* S.Hatt. et Thaithong, J. Jap. Bot. 53 (6): 175, 1978 (Hattori and Thaithong 1978c).
- *** **sect. *Frullania***
- *** *Frullania appalachiana* R.M.Schust., *Phytologia* 53 (5): 366, 1983 (Schuster 1983b).
- *** *Frullania azorica* Sim-Sim, Sérgio, Mues et Kraut, *Cryptog. Bryol. Lichénol.* 16 (2): 112, 1995 (Sim-Sim et al. 1995).
- *** *Frullania catalinae* A.Evans, *Trans. Connecticut Acad. Arts* 10 (1): 11, 1899 (Evans 1899).
- *** *Frullania dilatata* (L.) Dumort., *Recueil Observ. Jungerm.*: 13, 1835 (Dumortier 1835). Bas.: *Jungermannia dilatata* L., *Sp. Pl.* 1: 1133, 1753 (Linnaeus 1753).
- ** *Frullania dilatata* subsp. *asiatica* S.Hatt., J. Jap. Bot. 57 (9): 258, 1982 (Hattori 1982b).
- *** *Frullania eboracensis* Lehm., *Nov. Stirp. Pug.* 8: 14, 1844 (Lehmann 1844).²⁰⁸
- *** *Frullania ericoides* (Nees) Mont., *Ann. Sci. Nat. Bot. (sér. 2)* 12: 51, 1839 (Montagne 1839c). Bas.: *Jungermannia ericoides* Nees, *Fl. Bras. (Martius)* 1 (1): 346, 1833 (Nees 1833a).²⁰⁹
- * *Frullania ericoides* var. *laxa* (Gottsche, Lindenb. et Nees) Schiffn., *Consp. Hepat. Arch. Ind.*: 324, 1898 (Schiffner 1898b). Bas.: *Frullania squarrosa* γ *laxa* Gottsche, Lindenb. et Nees, *Syn. Hepat.* 5: 772, 1847 (Gottsche et al. 1847).
- * *Frullania ericoides* var. *minor* Kamim., *Bull. Kochi Gakuen Jun. Coll.* 2: 22, 1971 (Kamimura 1971).
- ** *Frullania ericoides* var. *verrucosa* (Kamim.) Hentschel et von Konrat, *Phytotaxa* 220 (2): 134, 2015 (Hentschel et al. 2015). Bas.: *Frullania squarrosa* var. *verrucosa* Kamim., *J. Hattori Bot. Lab.* 24: 19, 1961 (Kamimura 1961).
- *** *Frullania fragilifolia* (Taylor) Gottsche, Lindenb. et Nees, *Syn. Hepat.* 3: 437, 1845 (Gottsche et al. 1845b). Bas.: *Jungermannia fragilifolia* Taylor, *Ann. Mag. Nat. Hist.* 12 (76): 172, 1843 (Taylor 1843).
- ** *Frullania fuegiana* Steph., *Sp. Hepat. (Stephani)* 4: 428, 1910 (Stephani 1910b).
- ** *Frullania hattoriana* J.D.Godfrey et G.Godfrey, *J. Hattori Bot. Lab.* 48: 321, 1980 (Godfrey and Godfrey 1980).
- ** *Frullania kaponenii* S.Hatt., *Ann. Bot. Fenn.* 15 (2): 111, 1978 (Koponen et al. 1978).
- *** *Frullania muscicola* Steph., *Hedwigia* 33 (3): 146, 1894 (Stephani 1894d).
- *** *Frullania oakesiana* Austin, *Proc. Acad. Nat. Sci. Philadelphia* 21: 225, 1869 (Austin 1869).
- ** *Frullania oakesiana* subsp. *takayuensis* (Steph.) R.M.Schust., *Hepat. Anthocerotae N. Amer.* 5: 195, 1992 (Schuster 1992b). Bas.: *Frullania takayuensis* Steph., *Sp. Hepat. (Stephani)* 4: 399, 1910 (Stephani 1910b).

208 *Frullania eboracensis* is a species complex also including *Frullania appalachiana*, *Frullania parvistipula* and *Frullania virginica*.

209 *Frullania ericoides* is enormously variable (Schuster 1992b) and is a species complex with at least two lineages (Hentschel et al. 2009).

- *** *Frullania parvistipula* Steph., Sp. Hepat. (Stephani) 4: 397, 1910 (Stephani 1910b).
- ** *Frullania sabaliana* R.M.Schust., Phytologia 53 (5): 365, 1983 (Schuster 1983b).
- ** *Frullania semivillosa* Lindenb. et Gottsche, Syn. Hepat. 5: 774, 1847 (Gottsche et al. 1847).
- ** *Frullania stylifera* (R.M.Schust.) R.M.Schust., Hepat. Anthocerotae N. Amer. 5: 210, 1992 (Schuster 1992b). Bas.: *Frullania inflata* var. *stylifera* R.M.Schust., Phytologia 53 (5): 366, 1983 (Schuster 1983b).
- * *Frullania subdilata* C.Massal., Nuovo Giorn. Bot. Ital. (n.ser.) 13 (4): 349, 1906 (Levier 1906).
- *** *Frullania virginica* Lehm., Nov. Stirp. Pug. 8: 19, 1844 (Lehmann 1844).
- ** **sect. *Irregulares* E.A.Hodgs. ex S.Hatt.**, J. Hattori Bot. Lab. 54: 143, 1983 (Hattori 1983).
- * *Frullania astrolabea* Steph., Sp. Hepat. (Stephani) 4: 460, 1910 (Stephani 1910b).²¹⁰
- *** *Frullania deplanata* Mitt., Bot. antarct. voy. II (Fl. Nov.-Zel. 2): 161, 1855 (Mitten 1855).
- *** *Frullania morobensis* S.Hatt. et Streimann, J. Hattori Bot. Lab. 59: 109, 1985 (Hattori and Streimann 1985).
- *** *Frullania patula* Mitt., Bot. antarct. voy. II (Fl. Nov.-Zel. 2): 159, 1854 (Mitten 1854).
- *** *Frullania scandens* Mont., Ann. Sci. Nat. Bot. (sér. 2) 19: 258, 1843 (Montagne 1843).
- ** **sect. *Planae* R.M.Schust.**, Phytologia 57 (5): 372, 1985 (Schuster 1985a).
- *** *Frullania plana* Sull., Mem. Amer. Acad. Arts (n.ser.) 4: 175, 1849 (Sullivant 1849).
- *** **subg. *Homotropantha* Spruce**, Trans. & Proc. Bot. Soc. Edinburgh 15: 35, 1884 (Spruce 1884).
- *** *Frullania deflexa* Mitt., Bonplandia 10 (2): 19, 1862 (Mitten 1862).
- *** *Frullania integristipula* (Nees) Nees, Syn. Hepat. 3: 431, 1845 (Gottsche et al. 1845b). Bas.: *Jungermannia integristipula* Nees, Enum. Pl. Crypt. Javae: 54, 1830 (Nees 1830).
- ** *Frullania integristipula* var. *emarginata* Verd., Ann. Bryol. 2: 153, 1929 (Verdoorn 1929a).
- ** *Frullania macrophylla* S.Hatt., J. Hattori Bot. Lab. 47: 220, 1980 (Hattori 1980a).
- ** *Frullania sabahana* S.Hatt., J. Hattori Bot. Lab. 40: 493, 1976 (Hattori 1976d).
- ** *Frullania sackawana* Steph., Bull. Herb. Boissier 5 (2): 91, 1897 (Stephani 1897b).
- ** *Frullania sarawakensis* S.Hatt., J. Hattori Bot. Lab. 40: 496, 1976 (Hattori 1976d).
- ** *Frullania umbonata* Mitt., Sp. Hepat. (Stephani) 4: 579, 1911 (Stephani 1911e).
- *** *Frullania utriculata* Steph., Hedwigia 33 (3): 152, 1894 (Stephani 1894d).
- *** **sect. *Fallaces* Verd.**, Rev. Bryol. Lichénol. 1: 112, 1928 (Verdoorn 1928a).
- * *Frullania fallax* Gottsche, Syn. Hepat. 3: 432, 1845 (Gottsche et al. 1845b).

²¹⁰ *Frullania astrolabea* is possibly conspecific with *Frullania scandens* (Hattori 1981b).

- *** *Frullania intermedia* (Reinw., Blume et Nees) Nees, Syn. Hepat. 3: 434, 1845 (Gottsche et al. 1845b). Bas.: *Jungermannia intermedia* Reinw., Blume et Nees, Nova Acta Phys.-Med. Acad. Caes. Leop.-Carol. Nat. Cur. 12 (1): 218, 1824 [1825] (Reinwardt et al. 1824a).²¹¹
- ** *Frullania intermedia* subsp. *morokensis* (Steph.) S.Hatt., J. Hattori Bot. Lab. 47: 194, 1980 (Hattori 1980a). Bas.: *Frullania morokensis* Steph., Sp. Hepat. (Stephani) 4: 578, 1911 (Stephani 1911e).
- * *Frullania intermedia* var. *non-apiculata* S.Hatt., J. Hattori Bot. Lab. 39: 291, 1975 (Hattori 1975d).²¹²
- ** *Frullania novoguineensis* Schiffn., Leberm., Forschungrs. Gazelle 4 (4): 37, 1890 (Schiffner 1890).
- ** *Frullania regularis* Schiffn., Leberm., Forschungrs. Gazelle 4 (4): 38, 1890 (Schiffner 1890).
- *** **sect. *Nodulosae* Verd.**, Rev. Bryol. Lichénol. 1: 116, 1928 (Verdoorn 1928a).
- * *Frullania brotheri* Steph., Hedwigia 33 (3): 150, 1894 (Stephani 1894d).²¹³
- ** *Frullania hamata* Steph., Sp. Hepat. (Stephani) 4: 582, 1911 (Stephani 1911e).
- ** *Frullania leeuwenii* Verd., Nova Guinea 14: 545, 1930 (Verdoorn 1930b).
- *** *Frullania nodulosa* (Reinw., Blume et Nees) Nees, Syn. Hepat. 3: 433, 1845 (Gottsche et al. 1845b). Bas.: *Jungermannia nodulosa* Reinw., Blume et Nees, Nova Acta Phys.-Med. Acad. Caes. Leop.-Carol. Nat. Cur. 12 (1): 217, 1824 [1825] (Reinwardt et al. 1824a).
- ** **sect. *Remotilobae* Verd.**, Rev. Bryol. Lichénol. 1: 119, 1928 (Verdoorn 1928a).
- *** *Frullania heteromorpha* Schiffn., Leberm., Forschungrs. Gazelle 4 (4): 38, 1890 (Schiffner 1890).
- ** *Frullania remotiloba* Steph., Hedwigia 33 (3): 152, 1894 (Stephani 1894d).
- * **subg. *Mammillosae* S.Hatt.**, J. Hattori Bot. Lab. 60: 226, 1986 (Hattori 1986e).
- ** *Frullania huerlimannii* S.Hatt., Bull. Natl. Sci. Mus. Tokyo, B 2 (3): 84, 1976 (Hattori 1976b).
- * *Frullania huerlimannii* var. *dioica* S.Hatt., J. Hattori Bot. Lab. 57: 413, 1984 (Hattori 1984a).
- ** *Frullania involvens* S.Hatt. et Kamim., J. Hattori Bot. Lab. 37: 526, 1973 (Hattori and Kamimura 1973).
- ** *Frullania iriomotensis* S.Hatt., J. Jap. Bot. 55 (5): 133, 1980 (Hattori 1980c).
- ** *Frullania mammillosa* S.Hatt., J. Hattori Bot. Lab. 43: 424, 1977 [1978] (Hattori 1977b).

211 *Frullania intermedia* is a species complex (Hattori 1980a).

212 *Frullania intermedia* var. *non-apiculata* was reduced to a synonym of subsp. *intermedia* by Hattori (1980a), but it was re-instated by Hattori (1985).

213 *Frullania brotheri* is probably just a high-elevation form of *Frullania nodulosa* (Söderström et al. 2010a).

- *** *Frullania meijeri* S.Hatt., Bull. Natl. Sci. Mus. Tokyo (n.ser.) 17 (4): 307, 1974 (Hattori 1974b).
- ** *Frullania notarisis* Steph., Sp. Hepat. (Stephani) 4: 651, 1911 (Stephani 1911e).
- ** *Frullania papulosa* Steph., Sp. Hepat. (Stephani) 4: 654, 1911 (Stephani 1911e).
- ** *Frullania rudolfiana* S.Hatt., J. Hattori Bot. Lab. 36: 437, 1972 [1973] (Hattori 1972b).
- *** *Frullania thiersiae* S.Hatt., Beih. Nova Hedwigia 90: 156, 1988 (Hattori 1988b).
- ** *Frullania tixieri* S.Hatt., J. Jap. Bot. 51 (7): 193, 1976 (Hattori 1976a).
- *** **subg. *Meteoriopsis* Spruce**, Trans. & Proc. Bot. Soc. Edinburgh 15: 37, 1884 (Spruce 1884).
- * *Frullania caldensis* Ångstr., Öfvers. Kongl. Vetensk.-Akad. Förh. 33 (7): 89, 1876 [1877] (Ångström 1876).
- ** *Frullania evoluta* Mitt., J. Proc. Linn. Soc., Bot. 5 (18): 122, 1860 [1861] (Mitten 1860c).
- *** *Frullania tagawana* (S.Hatt. et Thaithong) S.Hatt., J. Hattori Bot. Lab. 59: 160, 1985 (Hattori and Lin 1985a). Bas.: *Frullania evoluta* var. *tagawana* S.Hatt. et Thaithong, J. Hattori Bot. Lab. 43: 441, 1977 [1978] (Hattori et al. 1977).
- *** **sect. *Intumescentes* R.M.Schust.**, Phytologia 57 (5): 370, 1985 (Schuster 1985a).
- *** *Frullania aculeata* Taylor, London J. Bot. 5: 407, 1846 (Taylor 1846b).
- ** *Frullania ambronii* Steph., Biblioth. Bot. 87 (2): 242, 1916 (Stephani 1916a).
- *** *Frullania atrata* (Sw.) Nees ex Mont., Ann. Sci. Nat. Bot. (sér. 2) 12: 51, 1839 (Montagne 1839c). Bas.: *Jungermannia atrata* Sw., Prodr. (Swartz): 144, 1788 (Swartz 1788).
- *** *Frullania beyrichiana* (Lehm. et Lindenb.) Lehm. et Lindenb., Syn. Hepat. 3: 460, 1845 (Gottsche et al. 1845b). Bas.: *Jungermannia beyrichiana* Lehm. et Lindenb., Nov. Stirp. Pug. 5: 25, 1833 (Lehmann 1833).
- *** *Frullania bicornistipula* Spruce, Trans. & Proc. Bot. Soc. Edinburgh 15: 46, 1884 (Spruce 1884).
- *** *Frullania brasiliensis* Raddi, Critt. Brasil.: 12, 1822 (Raddi 1822).²¹⁴
- ** *Frullania brasiliensis* var. *elegantula* Spruce, Trans. & Proc. Bot. Soc. Edinburgh 15: 50, 1884 (Spruce 1884).
- * *Frullania breuteliana* Gottsche, Syn. Hepat. 3: 461, 1845 (Gottsche et al. 1845b).²¹⁵
- * *Frullania compacta* Gottsche, Sp. Hepat. (Stephani) 4: 493, 1911 (Stephani 1911e).²¹⁶
- * *Frullania crenulifolia* J.B.Jack et Steph., Hedwigia 31 (1): 14, 1892 (Jack and Stephani 1892).

214 *Frullania brasiliensis* is a species complex with controversial synonymy (Schuster 1992b, Hentschel et al. 2009).

215 *Frullania breuteliana* is possibly conspecific with *Frullania beyrichiana*.

216 *Frullania compacta* is conspecific with *Frullania brasiliensis* in Stotler (1969), but Schuster (1992b) doubts the correctness of this.

- ** *Frullania crispiloba* Steph., Hedwigia 33 (3): 156, 1894 (Stephani 1894d).
- ** *Frullania curviramea* Steph., Sp. Hepat. (Stephani) 4: 684, 1911 (Stephani 1911e).
- *** *Frullania ecuadorensis* Steph., Sp. Hepat. (Stephani) 4: 526, 1911 (Stephani 1911e).
- ** *Frullania formosa* Spruce, Trans. & Proc. Bot. Soc. Edinburgh 15: 46, 1884 (Spruce 1884).
- * *Frullania granatensis* Gottsche, Ann. Sci. Nat. Bot. (sér. 5) 1: 173 (79), 1864 (Gottsche 1864).²¹⁷
- *** *Frullania griffithsiana* Gottsche, Syn. Hepat. 4: 466, 1846 (Gottsche et al. 1846).
- * *Frullania guadalupensis* Gottsche, Sp. Hepat. (Stephani) 4: 496, 1911 (Stephani 1911e).
- * *Frullania gualaquizana* Steph., Sp. Hepat. (Stephani) 4: 531, 1911 (Stephani 1911e).
- ** *Frullania hamiflora* Herzog et L. Clark, Bryologist 56 (3): 180, 1953 (Clark and Schultz 1953).
- * *Frullania humilis* Spruce, Mem. Torrey Bot. Club 1 (3): 119, 1890 (Spruce 1890).
- *** *Frullania intumescens* (Lehm. et Lindenb.) Lehm. et Lindenb., Syn. Hepat. 3: 460, 1845 (Gottsche et al. 1845b). Bas.: *Jungermannia intumescens* Lehm. et Lindenb., Nov. Stirp. Pug. 6: 52, 1834 (Lehmann 1834).
- * *Frullania laticaulis* Spruce, Mem. Torrey Bot. Club 1 (3): 120, 1890 (Spruce 1890).
- *** *Frullania lobatohastata* Steph., Sp. Hepat. (Stephani) 4: 499, 1911 (Stephani 1911e).
- * *Frullania longistipula* var. *apiculata* Demaret et Vanden Berghen, Bull. Jard. Bot. État Bruxelles 20 (1): 4, 1950 (Demaret and Vanden Berghen 1950).
- *** *Frullania macrocephala* (Lehm. et Lindenb.) Lehm. et Lindenb., Syn. Hepat. 3: 460, 1845 (Gottsche et al. 1845b). Bas.: *Jungermannia macrocephala* Lehm. et Lindenb., Nov. Stirp. Pug. 5: 20, 1833 (Lehmann 1833).
- ** *Frullania madothecoides* Spruce, Trans. & Proc. Bot. Soc. Edinburgh 15: 47, 1884 (Spruce 1884).
- ** *Frullania meridana* Steph., Sp. Hepat. (Stephani) 4: 500, 1911 (Stephani 1911e).
- * *Frullania microcephala* Gottsche, Mexik. Leverm.: 251, 1863 (Gottsche 1863).
- *** *Frullania montagnei* Gottsche, Syn. Hepat. 3: 456, 1845 (Gottsche et al. 1845b).
- ** *Frullania moritziana* Lindenb. et Gottsche, Syn. Hepat. 5: 782, 1847 (Gottsche et al. 1847).
- ** *Frullania osculatiana* De Not., Mem. Reale Accad. Sci. Torino (ser. 2) 16: 236, 1857 (De Notaris 1857).
- *** *Frullania paradoxa* Lehm. et Lindenb., Syn. Hepat. 3: 462, 1845 (Gottsche et al. 1845b).
- ** *Frullania pearceana* Steph., Sp. Hepat. (Stephani) 4: 515, 1911 (Stephani 1911e).
- *** *Frullania pittieri* Steph., Primit. fl. costar.: 113, 1892 [1893] (Stephani 1892e).
- ** *Frullania rigescens* Spruce, Trans. & Proc. Bot. Soc. Edinburgh 15: 52, 1884 (Spruce 1884).
- *** *Frullania setigera* Steph., Hedwigia 33 (3): 159, 1894 (Stephani 1894d).

217 *Frullania granatensis* is possibly conspecific with *Frullania beyrichiana*, but the type specimen was lost in B (Stotler 1969).

- ** *Frullania speciosa* Herzog, Memoranda Soc. Fauna Fl. Fennica 25: 59, 1950 (Herzog 1950c).
- ** *Frullania supradecomposita* (Lehm. et Lindenb.) Lehm. et Lindenb., Syn. Hepat. 3: 431, 1845 (Gottsche et al. 1845b). Bas.: *Jungermannia supradecomposita* Lehm. et Lindenb., Nov. Stirp. Pug. 5: 23, 1833 (Lehmann 1833).
- * *Frullania trianae* Gottsche, Ann. Sci. Nat. Bot. (sér. 5) 1: 173, 1864 (Gottsche 1864).
- ** *Frullania triquetra* Lindenb. et Gottsche, Syn. Hepat. 5: 780, 1847 (Gottsche et al. 1847).
- * *Frullania trollii* Herzog, Beih. Bot. Centralbl. 61B (3): 575, 1942 (Herzog 1942d).
- *** *Frullania uleana* Steph., Hedwigia 33 (3): 155, 1894 (Stephani 1894d).
- ** **sect. *Meteoriopsis* Uribe, von Konrat et Hentschel**, Phytotaxa 220 (2): 132, 2015 (Hentschel et al. 2015).
- *** *Frullania convoluta* Lindenb. et Hampe, Linnaea 24 (3): 303, 1851 [1852] (Hampe 1851b).
- * *Frullania convoluta* var. *ampliata* Herzog, Rev. Bryol. Lichénol. 20 (1/2): 129, 1951 [1952] (Herzog 1951a).
- *** *Frullania darwinii* Gradst. et Uribe, Cryptog. Bryol. 25 (4): 296, 2004 (Uribe 2004).
- *** *Frullania dulimensis* Uribe, Cryptog. Bryol. 27 (3): 309, 2006 (Uribe 2006).
- *** *Frullania grandifolia* Steph., Sp. Hepat. (Stephani) 4: 684, 1911 (Stephani 1911e).
- *** *Frullania peruviana* Gottsche, Syn. Hepat. 4: 465, 1846 (Gottsche et al. 1846).
- *** *Frullania phalangiflora* Steph., Biblioth. Bot. 87 (2): 247, 1916 (Stephani 1916a).
- *** *Frullania weberbaueri* Steph., Sp. Hepat. (Stephani) 4: 510, 1911 (Stephani 1911e).
- *** **sect. *Obtusilobae* Verd.**, Ann. Bryol., Suppl. 1: 81, 1930 (Verdoorn 1930c).
- ** *Frullania angulata* Mitt., J. Proc. Linn. Soc., Bot. 7 (27): 169, 1863 (Mitten 1863).
- ** *Frullania angulata* var. *laciniata* Vanden Berghen, Bull. Jard. Bot. Natl. Belg. 46 (1/2): 72, 1976 (Vanden Berghen 1976b).
- ** *Frullania apicalis* Mitt., Philos. Trans. 168: 401, 1879 (Mitten 1879).
- ** *Frullania apicalis* var. *camerunensis* Vanden Berghen, Bull. Jard. Bot. Natl. Belg. 46 (1/2): 53, 1976 (Vanden Berghen 1976b).
- * *Frullania borbonica* Lindenb., Syn. Hepat. 3: 455, 1845 (Gottsche et al. 1845b).²¹⁸
- *** *Frullania capensis* Gottsche, Syn. Hepat. 3: 449, 1845 (Gottsche et al. 1845b).
- ** *Frullania donnellii* Austin, Bull. Torrey Bot. Club 6 (52): 301, 1879 (Austin 1879).
- ** *Frullania eplicata* Steph., Sp. Hepat. (Stephani) 4: 679, 1911 (Stephani 1911e).
- ** *Frullania imerinensis* Steph., Sp. Hepat. (Stephani) 4: 484, 1911 (Stephani 1911e).
- *** *Frullania kunzei* (Lehm. et Lindenb.) Lehm. et Lindenb., Syn. Hepat. 3: 449, 1845 (Gottsche et al. 1845b). Bas.: *Jungermannia kunzei* Lehm. et Lindenb., Nov. Stirp. Pug. 6: 50, 1834 (Lehmann 1834).

²¹⁸ *Frullania borbonica* is possibly conspecific with *Frullania apicalis* (Vanden Berghen 1976b).

- ** *Frullania kunzei* var. *maritima* R.M.Schust., *Phytotaxa* 220 (2): 135, 2015 (Hentschel et al. 2015). Based on: *Frullania kunzei* var. *maritima* R.M.Schust., *J. Hattori Bot. Lab.* 70: 145, 1991 (Schuster 1991b), *nom. inval.*
- ** *Frullania longistipula* Steph., *Bull. Soc. Roy. Bot. Belgique, Compt. Rend.* 30 (2): 199, 1891 [1892] (Stephani 1891b).
- *** *Frullania meyeniana* Lindenb., *Syn. Hepat.* 3: 455, 1845 (Gottsche et al. 1845b).
- ** *Frullania meyeniana* var. *dioica* S.Hatt., *J. Hattori Bot. Lab.* 43: 426, 1977 [1978] (Hattori 1977b).
- ** *Frullania onraedtii* Vanden Berghen, *Bull. Jard. Bot. Natl. Belg.* 46 (1/2): 60, 1976 (Vanden Berghen 1976b).
- ** *Frullania papuana* Verd., *Ann. Bryol., Suppl.* 1: 82, 1930 (Verdoorn 1930c).
- *** *Frullania schimperi* Nees, *Syn. Hepat.* 3: 454, 1845 (Gottsche et al. 1845b).²¹⁹
- ** *Frullania schimperi* var. *laciniata* Vanden Berghen, *Bull. Jard. Bot. Natl. Belg.* 46 (1/2): 59, 1976 (Vanden Berghen 1976b).
- *** **subg. *Microfrullania* (R.M.Schust.) R.M.Schust.**, *Hepat. Anthocerotae N. Amer.* 5: 34, 1992 (Schuster 1992b). Bas.: *Neohattoria* subg. *Microfrullania* R.M.Schust., *J. Hattori Bot. Lab.* 33: 280, 1970 (Schuster 1970a).
- *** *Frullania fertilis* De Not., *Mem. Reale Accad. Sci. Torino (ser. 2)* 16: 235, 1857 (De Notaris 1857).
- *** *Frullania knightbridgei* von Konrat et de Lange, *PhytoKeys* 8: 28, 2012 (von Konrat et al. 2012b).
- *** *Frullania magellanica* F.Weber et Nees, *Syn. Hepat.* 3: 446, 1845 (Gottsche et al. 1845b). *Nom. nov. pro Jungermannia magellanica* Spreng. *Ann. Wetterauischen Ges. Gesammte Naturk.* 1: 25, 1809 (Sprengel 1809), *nom. illeg.*
- ** *Frullania magellanica* subsp. *tristaniana* (S.W.Arnell) Váňa et J.J.Engel, *Mem. New York Bot. Gard.* 105: 59, 2013 (Váňa and Engel 2013). Bas.: *Frullania tristaniana* S.W.Arnell, *Results Norweg. Sci. Exped. Tristan da Cunha* 42: 9, 1958 (Arnell 1958b).
- * *Frullania matafaoica* H.A.Mill., *Phytologia* 47 (4): 322, 1981 (Miller 1981). *Nom. nov. pro Frullania minutissima* Pearson, *Amer. Samoa*: 140, 1924 (Pearson 1924a), *nom. illeg.*
- *** *Frullania toropuku* von Konrat, de Lange et Larrain, *Polish Bot. J.* 58 (2): 439, 2013 (von Konrat et al. 2013).
- *** **sect. *Amphijubula* (R.M.Schust.) von Konrat, Hentschel, Heinrichs et Braggins**, *Bryologist* 114 (1): 53, 2011 (von Konrat et al. 2011). Bas.: *Amphijubula* R.M.Schust., *J. Hattori Bot. Lab.* 33: 298, 1970 (Schuster 1970a).
- *** *Frullania lobulata* (Hook.) Hook. et Nees, *Syn. Hepat.* 3: 445, 1845 (Gottsche et al. 1845b). Bas.: *Jungermannia lobulata* Hook., *Musci Exot.* 2: tab. 119, 1820 (Hooker 1820).

219 *Frullania schimperi* belongs to a species complex also including *Frullania onraedtii*, *Frullania capensis*, *Frullania apicalis*, *Frullania imerinensis* and *Frullania meyeniana* (Vanden Berghen 1976b).

- *** *Frullania microcaulis* Gola, Nuovo Giorn. Bot. Ital. (n.ser.) 29 (1/4): 172, 1922 [1923] (Gola 1922).
- *** *Frullania truncatistyla* von Konrat, Hentschel, Heinrichs et Braggins, Bryologist 114 (1): 63, 2011 (von Konrat et al. 2011).
- *** **sect. *Microfrullania* (R.M.Schust.) von Konrat et Hentschel**, Phytotaxa 220 (2): 133, 2015 (Hentschel et al. 2015). Bas.: *Neohattoria* sect. *Microfrullania* R.M.Schust., J. Hattori Bot. Lab. 33: 288, 1970 (Schuster 1970a).
- *** *Frullania chevalieri* (R.M.Schust.) R.M.Schust., Hepat. Anthocerotae N. Amer. 5: 34, 1992 (Schuster 1992b). Bas.: *Neohattoria chevalieri* R.M.Schust., J. Hattori Bot. Lab. 33: 289, 1970 (Schuster 1970a).²²⁰
- *** *Frullania microscopica* Pearson, J. Linn. Soc., Bot. 46 (305): 33, 1922 (Pearson 1922b).
- ** *Frullania neocaledonica* J.J.Engel, Novon 9 (3): 344, 1999 (Engel and Smith Merrill 1999a). *Nom. nov. pro Neohattoria caledonica* R.M.Schust., J. Hattori Bot. Lab. 33: 291, 1970 (Schuster 1970a).
- *** *Frullania parhamii* (R.M.Schust.) R.M.Schust. ex von Konrat, L.Söderstr. et A.Hagborg, Telopea 13 (3): 407, 2011 (Söderström et al. 2011a). Bas.: *Neohattoria parhamii* R.M.Schust., J. Hattori Bot. Lab. 26: 243, 1963 (Schuster 1963b).
- *** **sect. *Regulares* Verd.**, Ann. Bryol., Suppl. 1: 133, 1930 (Verdoorn 1930c).
- *** *Frullania junghubniana* Gottsche, Syn. Hepat. 3: 444, 1845 (Gottsche et al. 1845b).²²¹
- ** *Frullania junghubniana* var. *bisexualis* S.Hatt., J. Hattori Bot. Lab. 40: 485, 1976 (Hattori 1976d).
- ** *Frullania junghubniana* var. *tenella* (Sande Lac.) Grolle et S.Hatt., Misc. Bryol. Lichenol. 9 (6): 123, 1982 (Hattori 1982a). Bas.: *Frullania tenella* Sande Lac., Ned. Kruidk. Arch. 3: 423, 1854 [1855] (Sande Lacoste 1854).
- ** *Frullania mcveanii* S.Hatt., J. Hattori Bot. Lab. 37: 55, 1973 (Hattori 1973a).
- ** *Frullania pseudomeyeniana* S.Hatt., J. Hattori Bot. Lab. 60: 231, 1986 (Hattori 1986e).
- *** *Frullania rostrata* (Hook.f. et Taylor) Gottsche, Lindenb. et Nees, Syn. Hepat. 3: 445, 1845 (Gottsche et al. 1845b). Bas.: *Jungermannia rostrata* Hook.f. et Taylor, London J. Bot. 4: 87, 1845 (Hooker and Taylor 1845).²²²
- ** *Frullania scalaris* S.Hatt., J. Hattori Bot. Lab. 43: 432, 1977 [1978] (Hattori 1977b).
- ** **subg. *Saccophora* Verd.**, Ann. Bryol. 2: 121, 1929 (Verdoorn 1929a).
- *** *Frullania gaudichaudii* (Nees et Mont.) Nees et Mont., Syn. Hepat. 3: 435, 1845 (Gottsche et al. 1845b). Bas.: *Jubula gaudichaudii* Nees et Mont., Ann. Sci. Nat. Bot. (sér. 2) 5: 64, 1836 (Nees and Montagne 1836).

220 *Frullania chevalieri* is a species complex (Hattori 1984a).

221 *Frullania junghubniana* is a species complex (Hattori 1976b).

222 *Frullania rostrata* is a species complex with several lineages, some of which have been recently described (e.g. von Konrat et al. 2013).

- ** *Frullania gaudichaudii* var. *ceylanica* (Nees) S.Hatt., J. Hattori Bot. Lab. 47: 104, 1980 (Hattori 1980d). Bas.: *Frullania ceylanica* Nees, Syn. Hepat. 3: 436, 1845 (Gottsche et al. 1845b).
- *** *Frullania hedrantha* S.Hatt. et Kamim., J. Hattori Bot. Lab. 37: 519, 1973 (Hattori and Kamimura 1973).
- ** *Frullania immersa* Steph., Bot. Jahrb. Syst. 23 (1/2, 3): 315, 1896 (Stephani 1896a).
- ** *Frullania pancheri* Gottsche, Hedwigia 33 (3): 159, 1894 (Stephani 1894d).
- ** *Frullania papillilobula* S.Hatt., Bull. Natl. Sci. Mus. Tokyo, B 1 (4): 141, 1975 (Hattori 1975f).
- ** *Frullania sublignosa* Steph., Hedwigia 33 (3): 148, 1894 (Stephani 1894d).
- * **subg. *Steerea* (S.Hatt. et Kamim.) R.M.Schust.**, Hepat. Anthocerotae N. Amer. 5: 32, 1992 (Schuster 1992b). Bas.: *Steerea* S.Hatt. et Kamim., J. Hattori Bot. Lab. 34: 429, 1971 (Hattori and Kamimura 1971).
- *** *Frullania clemensiana* Verd., Ned. Kruidk. Arch. (ser. 3) 42 (2): 493, 1932 (Verdoorn 1932b).
- *** **subg. *Thyopsiella* Spruce**, Trans. & Proc. Bot. Soc. Edinburgh 15: 41, 1884 (Spruce 1884).
- *** *Frullania acicularis* Hentschel et von Konrat, Phytotaxa 220 (2): 134, 2015 (Hentschel et al. 2015). *Nom. nov. pro Frullania tamarisci* var. *azorica* J.-P.Frahm, Trop. Bryol. 27: 102, 2006 (Frahm 2006).²²³
- ** *Frullania alstonii* Verd., Ann. Bryol., Suppl. 1: 76, 1930 (Verdoorn 1930c).
- ** *Frullania aoshimensis* Horik., Sci. Rep. Tôhoku Imp. Univ., Ser. 4, Biol. 4 (1): 64, 1929 (Horikawa 1929b).
- *** *Frullania appendiculata* Steph., Bull. Herb. Boissier 5 (2): 88, 1897 (Stephani 1897b).²²⁴
- *** *Frullania asagrayana* Mont., Ann. Sci. Nat. Bot. (sér. 2) 18: 14, 1842 (Montagne 1842b).²²⁵
- *** *Frullania calcarifera* Steph., Bol. Soc. Brot. 4: 241, 1886 [1887] (Henriques 1886).²²⁶
- *** *Frullania californica* (M.Howe) A.Evans, Trans. Connecticut Acad. Arts 10 (1): 25, 1899 (Evans 1899). Bas.: *Frullania asagrayana* var. *californica* M.Howe, Erythea 2 (6): 98, 1894 (Howe 1894).
- *** *Frullania densiloba* Steph. ex A.Evans, Proc. Wash. Acad. Sci. 8: 157, 1906 (Evans 1906b).
- *** *Frullania franciscana* M.Howe, Erythea 2 (6): 99, 1894 (Howe 1894).

223 *Frullania acicularis* was shown to be a species separate from *Frullania tamarisci* (Heinrichs et al. 2010, Vilnet et al. (2014). It may, however, not be the earliest available name.

224 *Frullania appendiculata* was shown by Vilnet et al. (2014) to be a species separate from *Frullania tamarisci*. It may, however, not be the earliest available name.

225 *Frullania asagrayana* consists of two geographically separated clades (Ramaiya et al. 2010).

226 *Frullania calcarifera* was shown to be a species separate from *Frullania tamarisci* by Heinrichs et al. (2010) and Vilnet et al. (2014). It may, however, not be the earliest available name.

- ** *Frullania iwatsukii* S.Hatt., J. Hattori Bot. Lab. 35: 240, 1972 (Hattori 1972a).
- *** *Frullania microphylla* (Gottsche) Pearson, J. Bot. 32: 328, 1894 (Pearson 1894). Bas.: *Frullania tamarisci* var. *microphylla* Gottsche, Hepat. Eur., Leberm. 21-22: no. 109 [209], 1862 (Rabenhorst 1862).
- *** *Frullania moniliata* (Reinw., Blume et Nees) Mont., Ann. Sci. Nat. Bot. (sér. 2) 18: 13, 1842 (Montagne 1842b). Bas.: *Jungermannia moniliata* Reinw., Blume et Nees, Nova Acta Phys.-Med. Acad. Caes. Leop.-Carol. Nat. Cur. 12 (1): 224, 1824 [1825] (Reinwardt et al. 1824a).²²⁷
- *** *Frullania nisquallensis* Sull., Mem. Amer. Acad. Arts (n.ser.) 4: 175, 1849 (Sullivant 1849).
- *** *Frullania polysticta* Lindenb., Syn. Hepat. 3: 440, 1845 (Gottsche et al. 1845b).
- ** *Frullania pseudoalstonii* Tsudo et J.Haseg., Bryol. Res. 9 (3): 44, 2006 (Tsudo and Hasegawa 2006).
- ** *Frullania punctata* Reimers, Hedwigia 71 (1/2): 36, 1931 (Reimers 1931).
- ** *Frullania schaefer-verwimpii* Yuzawa et S.Hatt., J. Jap. Bot. 64 (2): 37, 1989 (Yuzawa and Hattori 1989).
- ** *Frullania selwyniana* Pearson, List. Canad. Hepat.: 1, 1890 (Pearson 1890).
- *** *Frullania sergiae* Sim-Sim, Fontinha, Mues et Lion, Nova Hedwigia 71 (1/2): 186, 2000 (Sim-Sim et al. 2000).
- *** *Frullania subarctica* Vilnet, Borovich. et Bakalin, Phytotaxa 173 (1): 67, 2014 (Vilnet et al. 2014).²²⁸
- *** *Frullania tamarisci* (L.) Dumort., Recueil Observ. Jungerm.: 13, 1835 (Dumortier 1835). Bas.: *Jungermannia tamarisci* L., Sp. Pl. 1: 1134, 1753 (Linnaeus 1753).
- *** *Frullania teneriffae* (F.Weber) Nees, Naturgesch. Eur. Leberm. 3: 239, 1838 (Nees 1838b). Bas.: *Jungermannia teneriffae* F.Weber, Hist. Musc. Hepat. Prodr.: 23, 1815 (Weber 1815).
- ** *Frullania trigona* L.Clark, Jovet-Ast et Frye, Bryologist 50 (1): 52, 1947 (Clark et al. 1947).

Incertae sedis

- * *Frullania affinis* Nees et Mont., Ann. Sci. Nat. Bot. (sér. 2) 19: 257, 1843 (Montagne 1843).²²⁹
- * *Frullania allionii* Steph., Sp. Hepat. (Stephani) 4: 394, 1910 (Stephani 1910b).
- * *Frullania alpina* Steph., Sp. Hepat. (Stephani) 4: 533, 1911 (Stephani 1911e).
- ** *Frullania alternans* Nees, Syn. Hepat. 3: 430, 1845 (Gottsche et al. 1845b).
- * *Frullania apertilobula* Gerola, Lav. Bot. Ist. Bot. Univ. Padova 12: 478, 1947 (Gerola 1947).
- ** *Frullania armata* Herzog et L.Clark, Bryologist 57 (1): 36, 1954 (Clark 1954).

²²⁷ *Frullania moniliata* is a species complex (Vilnet et al. 2014).

²²⁸ *Frullania subarctica* was shown to be a species separate from the *Frullania tamarisci* complex (Vilnet et al. 2014), but it is maybe not the oldest name.

²²⁹ *Frullania affinis* is possibly conspecific with *Frullania ecklonii* (Arnell 1963b).

- *** *Frullania bolanderi* Austin, Proc. Acad. Nat. Sci. Philadelphia 21: 226, 1869 (Austin 1869).
- *** *Frullania boveana* C.Massal., Nuovo Giorn. Bot. Ital. 17 (3): 244, 1885 (Massalongo 1885).
- * *Frullania caespitans* Beauverd, Sp. Hepat. (Stephani) 6: 537, 1924 (Stephani 1924). *Nom. nov. pro Frullania campanulata* Steph., Biblioth. Bot. 87 (2): 242, 1916 (Stephani 1916a), *nom. illeg.*
- * *Frullania canaliculata* Gottsche, Sp. Hepat. (Stephani) 4: 391, 1910 (Stephani 1910b).
- ** *Frullania capillaris* Steph., Sp. Hepat. (Stephani) 4: 616, 1911 (Stephani 1911e).
- * *Frullania cavallii* Gola, Ann. Bot. (Rome) 6 (2): 275, 1907 (Gola 1907).
- * *Frullania chiapasana* Steph., Sp. Hepat. (Stephani) 4: 392, 1910 (Stephani 1910b).
- * *Frullania chilcootiensis* Steph., Bot. Jahrb. Syst. 8 (2): 98, 1886 (Stephani 1886a).
- * *Frullania chiovendae* Gola, Ann. Bot. (Rome) 13 (1): 71, 1914 (Gola 1914a).
- ** *Frullania ciliata* Lindenb. et Gottsche, Syn. Hepat. 5: 775, 1847 (Gottsche et al. 1847).
- ** *Frullania cinchonae* Gottsche, Syn. Hepat. 3: 455, 1845 (Gottsche et al. 1845b).
- * *Frullania complicata* Steph., Sp. Hepat. (Stephani) 4: 671, 1911 (Stephani 1911e).
- * *Frullania cordaeana* Lindenb., Syn. Hepat. 3: 463, 1845 (Gottsche et al. 1845b).
- ** *Frullania cuneatistipula* Steph., Sp. Hepat. (Stephani) 6: 538, 1924 (Stephani 1924).
- * *Frullania cuspiloba* Steph., Sp. Hepat. (Stephani) 4: 394, 1910 (Stephani 1910b).
- * *Frullania dispar* Nees, Syn. Hepat. 3: 429, 1845 (Gottsche et al. 1845b).
- * *Frullania guatemalensis* Steph., Sp. Hepat. (Stephani) 4: 497, 1911 (Stephani 1911e).
- *** *Frullania inflata* Gottsche, Syn. Hepat. 3: 424, 1845 (Gottsche et al. 1845b).
- ** *Frullania inflata* var. *communis* R.M.Schust., Phytologia 57 (5): 372, 1985 (Schuster 1985a).
- ** *Frullania inflata* var. *dioica* S.Hatt. et Thaithong, J. Hattori Bot. Lab. 44: 185, 1978 (Hattori and Thaithong 1978b).
- ** *Frullania inflata* var. *mayebarae* (S.Hatt.) K.Yamada, Misc. Bryol. Lichenol. 6 (9): 163, 1974 (Yamada 1974). Bas.: *Frullania mayebarae* S.Hatt., Bot. Mag. (Tokyo) 65 (763/764): 13, 1952 (Hattori 1952a).
- * *Frullania laetevirens* Hampe ex Gottsche, Lindenb. et Nees, Syn. Hepat. 3: 420, 1845 (Gottsche et al. 1845b).
- * *Frullania larjiana* Sushil K.Singh et D.K.Singh, J. Bryol. 27 (2): 105, 2005 (Singh and Singh 2005).
- * *Frullania larjiana* var. *didyhatii* S.N.Srivast. et M.Rai, Geophytology 41 (1/2): 109, 2011 (Srivastava and Rai 2011).
- * *Frullania leana* Austin, Proc. Acad. Nat. Sci. Philadelphia 21: 227, 1869 (Austin 1869).
- * *Frullania madagascariensis* Gottsche, Abh. Naturwiss. Vereins Bremen 7: 364, 1882 (Gottsche 1882).
- * *Frullania mauritiana* Austin, Proc. Acad. Nat. Sci. Philadelphia 21: 227, 1869 (Austin 1869).
- *** *Frullania mirabilis* J.B.Jack et Steph., Hedwigia 31 (1): 15, 1892 (Jack and Stephani 1892).

- ** *Frullania monoica* Steph., Bih. Kongl. Svenska Vetensk.-Akad. Handl. 26 (III, 6): 67, 1900 (Stephani 1900b).
- * *Frullania ocanniensis* Steph., Sp. Hepat. (Stephani) 6: 542, 1924 (Stephani 1924).
- *** *Frullania platycalyx* Herzog, Feddes Repert. Spec. Nov. Regni Veg. 55 (1): 10, 1952 (Herzog 1952h).
- * *Frullania pyricalycina* Steph., Sp. Hepat. (Stephani) 4: 394, 1910 (Stephani 1910b).
- ** *Frullania quillotensis* (Nees et Mont.) Nees et Mont., Syn. Hepat. 3: 427, 1845 (Gottsche et al. 1845b). Bas.: *Jubula quillotensis* Nees et Mont., Ann. Sci. Nat. Bot. (sér. 2) 5: 64, 1836 (Nees and Montagne 1836).
- ** *Frullania reicheana* Steph., Sp. Hepat. (Stephani) 4: 427, 1910 (Stephani 1910b).
- * *Frullania sabanetica* Gottsche, Ann. Sci. Nat. Bot. (sér. 5) 1: 170, 1864 (Gottsche 1864).
- * *Frullania semienana* Gola, Ann. Bot. (Rome) 13 (1): 71, 1914 (Gola 1914a).
- ** *Frullania serrifolia* Steph., Sp. Hepat. (Stephani) 4: 526, 1911 (Stephani 1911e).
- ** *Frullania subpyricalycina* Herzog, Rev. Bryol. Lichénol. 23 (1/2): 57, 1954 (Herzog 1954).
- ** *Frullania subtruncata* Steph., Sp. Hepat. (Stephani) 4: 389, 1910 (Stephani 1910b).
- ** *Frullania turfosa* Lindenb. et Gottsche, Syn. Hepat. 5: 779, 1847 (Gottsche et al. 1847).
- ** *Frullania udarii* V.Nath et Ajit P.Singh, Curr. Sci. 91 (6): 744, 2006 (Nath and Singh 2006).
- ** *Frullania valparaisiana* Lehm., Nov. Stirp. Pug. 10: 17, 1857 (Lehmann 1857).
- ** *Frullania wagneri* Steph., Sp. Hepat. (Stephani) 4: 392, 1910 (Stephani 1910b).

*** Jubulaceae H.Klinggr.

by J. Hentschel and M. von Konrat

The systematic placement of *Neohattoria herzogii* has been contentious since its description six decades ago. It has been interpreted as either a member of the genus *Frullania* or segregated into its own genus, *Neohattoria*, due to morphological similarities with both *Frullania* and *Jubula*. We follow Larrain et al. (2015) that provided molecular evidence supporting the recognition of the genus *Neohattoria* and its inclusion within the Jubulaceae, together with *Jubula* and *Nipponolejeunea*.

- *** ***Jubula Dumort.***, Commentat. Bot. (Dumortier): 112, 1822 (Dumortier 1822) nom. conserv.
- *** *Jubula blepharophylla* Grolle, J. Hattori Bot. Lab. 28: 47, 1965 (Grolle 1965b).
- ** *Jubula hattorii* Udar et V.Nath, Misc. Bryol. Lichenol. 8 (3): 49, 1978 (Udar and Nath 1978).
- ** *Jubula hattorii* var. *muthukuzhiana* A.E.D.Daniels et P.Daniel, Bryofl. Southernm. W Ghats: 181, 2013 (Daniels and Daniel 2013).

- ** *Jubula himalayensis* S.C.Srivast. et D.Sharma, Proc. Indian Acad. Sci. Pl. Sci. 100 (2): 85, 1990 (Srivastava and Sharma 1990).
- *** *Jubula hutchinsiae* (Hook.) Dumort., Syll. Jungerm. Europ.: 36, 1831 (Dumortier 1831). Bas.: *Jungermannia hutchinsiae* Hook., Brit. Jungermann.: tab. 1, 1812 (Hooker 1812).²³⁰
- ** *Jubula hutchinsiae* subsp. *australiae* Pócs et A.Cairns, Nova Hedwigia 86 (1/2): 232, 2008 (Pócs and Cairns 2008).
- ** *Jubula hutchinsiae* subsp. *bogotensis* (Steph.) Verd., Ann. Cryptog. Exot. 1 (2): 215, 1928 (Verdoorn 1928b). Bas.: *Jubula bogotensis* Steph., Sp. Hepat. (Stephani) 4: 687, 1911 (Stephani 1911e).²³¹
- *** *Jubula hutchinsiae* subsp. *caucasica* Konstant. et Vilnet, Arctoa 20: 234, 2011 (Konstantinova and Vilnet 2011).
- *** *Jubula hutchinsiae* subsp. *japonica* (Steph.) Horik. et Ando, J. Sci. Hiroshima Univ., Ser. B, Div. 2, Bot. 6: 300, 1954 (Horikawa and Ando 1954). Bas.: *Jubula japonica* Steph., Bull. Herb. Boissier 5 (2): 92, 1897 (Stephani 1897b).
- *** *Jubula hutchinsiae* subsp. *javanica* (Steph.) Verd., Ann. Cryptog. Exot. 1 (2): 216, 1928 (Verdoorn 1928b). Bas.: *Jubula javanica* Steph., Sp. Hepat. (Stephani) 4: 688, 1911 (Stephani 1911e).²³²
- *** *Jubula hutchinsiae* subsp. *pennsylvanica* (Steph.) Verd., Ann. Cryptog. Exot. 1 (2): 215, 1928 (Verdoorn 1928b). Bas.: *Frullania pennsylvanica* Steph., Hedwigia 22 (10): 147, 1883 (Stephani 1883).
- ** *Jubula kwangsiensis* C.Gao et K.C.Chang, Bull. Bot. Res., Harbin 4 (3): 89, 1984 (Chang and Gao 1984).
- *** ***Neohattoria Kamim.***, J. Jap. Bot. 37 (7): 218, 1962 (Kamimura 1962). *Nom. nov. pro Hattoria* Kamim., J. Hattori Bot. Lab. 24: 93, 1961 (Kamimura 1961).
- *** *Neohattoria herzogii* (S.Hatt.) Kamim., J. Jap. Bot. 37 (7): 218, 1962 (Kamimura 1962). Bas.: *Frullania herzogii* S.Hatt., Feddes Repert. Spec. Nov. Regni Veg. 58: 53, 1955 (Hattori 1955).
- *** ***Nipponolejeunea S.Hatt.***, Bull. Tokyo Sci. Mus. 11: 124, 1944 (Hattori 1944d).
- *** *Nipponolejeunea pilifera* (Steph.) S.Hatt., Bull. Tokyo Sci. Mus. 11: 125, 1944 (Hattori 1944d). Bas.: *Pycnolejeunea pilifera* Steph., Sp. Hepat. (Stephani) 5: 624, 1914 (Stephani 1914b).
- *** *Nipponolejeunea subalpina* (Horik.) S.Hatt., Bull. Tokyo Sci. Mus. 11: 125, 1944 (Hattori 1944d). Bas.: *Pycnolejeunea subalpina* Horik., J. Jap. Bot. 15: 360, 1939 (Horikawa 1939).

²³⁰ *Jubula hutchinsiae* has subspecies that may be better recognized at the species level.

²³¹ *Jubula hutchinsiae* subsp. *bogotensis* is closely related to subsp. *pennsylvanica* (Pätsch et al. 2010).

²³² *Jubula hutchinsiae* subsp. *javanica* includes a cryptic taxon from China (Pätsch et al. 2010).

*** Lejeuneaceae Cavers

by S.R. Gradstein, T. Pócs and R.-L. Zhu with contributions by G. Dauphin (*Ceratolejeunea*), X. He (*Pycnolejeunea*), A.-L. Ilkiu-Borges (*Prionolejeunea*), E. Reiner-Drehwald (*Rectolejeunea*, *Lejeunea*), A. Sass-Gyarmati (*Lopholejeunea*), A. Schäfer-Verwimp (*Diplasiolejeunea*) and P. Sukkharak (*Thysananthus*)

The subdivision of Lejeuneaceae follows Gradstein (2013c) with updates from Heinrichs et al. (2013, 2014) and Schäfer-Verwimp et al. (2014). Some nomenclatural and taxonomic notes can also be found in Gradstein (2013b), Shu and Zhu (2014), Pócs et al. (2015a, 2015c), Qui et al. (2014) and Söderström et al. (2015a).

*** Lejeuneoideae

*** trib. Brachiolejeuneae

*** subtrib. Brachiolejeuneinae Gradst.

** *Acanthocoleus* R.M.Schust., Bull. Torrey Bot. Club 97 (6): 339, 1970 [1971] (Schuster 1970b).

*** *Acanthocoleus aberrans* (Lindenb. et Gottsche) Kruijt, Bryophyt. Biblioth. 36: 62, 1988 (Kruijt 1988). Bas.: *Lejeunea aberrans* Lindenb. et Gottsche, Syn. Hepat. 5: 751, 1847 (Gottsche et al. 1847).

*** *Acanthocoleus aberrans* var. *laevis* Gradst., Fl. Neotrop. Monogr. 62: 193, 1994 (Gradstein 1994).

*** *Acanthocoleus chrysophyllus* (Lehm.) Kruijt, Bryophyt. Biblioth. 36: 72, 1988 (Kruijt 1988). Bas.: *Jungermannia chrysophylla* Lehm., Linnaea 9 (4): 423, 1835 (Lehmann 1835).

** *Acanthocoleus elgonensis* Gyarmati et Pócs, Cryptog. Bryol. 35 (2): 120, 2014 (Sass-Gyarmati and Pócs 2014).

*** *Acanthocoleus gilvus* (Gottsche) Kruijt, Bryophyt. Biblioth. 36: 79, 1988 (Kruijt 1988). Bas.: *Lejeunea gilva* Gottsche, Abh. Naturwiss. Vereins Bremen 7: 353, 1882 (Gottsche 1882).

*** *Acanthocoleus javanicus* (Steph.) Kruijt, Bryophyt. Biblioth. 36: 85, 1988 (Kruijt 1988). Bas.: *Dicranolejeunea javanica* Steph., Sp. Hepat. (Stephani) 5: 169, 1912 (Stephani 1912c).

*** *Acanthocoleus juddii* Kruijt, Bryophyt. Biblioth. 36: 93, 1988 (Kruijt 1988).

** *Acanthocoleus madagascariensis* (Steph.) Kruijt, Bryophyt. Biblioth. 36: 98, 1988 (Kruijt 1988). Bas.: *Dicranolejeunea madagascariensis* Steph., Sp. Hepat. (Stephani) 5: 158, 1912 (Stephani 1912c).

*** *Acanthocoleus trigonus* (Nees et Mont.) Gradst., Contr. Univ. Michigan Herb. 18: 101, 1992 (Gradstein 1992b). Bas.: *Lejeunea trigona* Nees et Mont., Ann. Sci. Nat. Bot. (sér. 2) 5: 61, 1836 (Nees and Montagne 1836).

- ** *Acanthocoleus yoshinaganus* (S.Hatt.) Kruijt, Bryophyt. Biblioth. 36: 105, 1988 (Kruijt 1988). Bas.: *Lopholejeunea subfusca* var. *yoshinagana* S.Hatt., Bot. Mag. (Tokyo) 58 (686): 38, 1944 (Hattori 1944a).
- *** *Blepharolejeunea* **S.W.Arnell**, Svensk Bot. Tidskr. 56 (2): 335, 1962 (Arnell 1962b).
- *** *Blepharolejeunea chimantaensis* van Slageren et Kruijt, Beih. Nova Hedwigia 80: 126, 1985 (van Slageren and Kruijt 1985).
- *** *Blepharolejeunea fuegiana* (Besch. et C.Massal.) Gradst., Beih. Nova Hedwigia 80: 130, 1985 (van Slageren and Kruijt 1985). Bas.: *Lejeunea fuegiana* Besch. et C. Massal., Bull. Mens. Soc. Linn. Paris 1 (79): 638, 1886 (Bescherelle and Massalongo 1886).
- *** *Blepharolejeunea incongrua* (Lindenb. et Gottsche) van Slageren et Kruijt, Beih. Nova Hedwigia 80: 133, 1985 (van Slageren and Kruijt 1985). Bas.: *Lejeunea incongrua* Lindenb. et Gottsche, Syn. Hepat. 5: 750, 1847 (Gottsche et al. 1847).
- *** *Blepharolejeunea saccata* (Steph.) van Slageren et Kruijt, Beih. Nova Hedwigia 80: 138, 1985 (van Slageren and Kruijt 1985). Bas.: *Dicranolejeunea saccata* Steph., Hedwigia 35 (3): 78, 1896 (Stephani 1896b).
- *** *Blepharolejeunea securifolia* (Steph.) R.M.Schust., Phytologia 45 (5): 424, 1980 (Schuster 1980b). Bas.: *Brachiolejeunea securifolia* Steph., Sp. Hepat. (Stephani) 5: 128, 1912 (Stephani 1912c).
- *** *Brachiolejeunea* (**Spruce**) **Schiffn.**, Hepat. (Engl.-Prantl): 128, 1893 (Schiffner 1893b). Bas.: *Lejeunea* subg. *Brachiolejeunea* Spruce, Trans. & Proc. Bot. Soc. Edinburgh 15: 129, 1884 (Spruce 1884).
- *** *Brachiolejeunea conduplicata* (Steph.) Gradst., Fl. Neotrop. Monogr. 62: 175, 1994 (Gradstein 1994). Bas.: *Archilejeunea conduplicata* Steph., Sp. Hepat. (Stephani) 4: 712, 1911 (Stephani 1911e).
- *** *Brachiolejeunea fernandeziana* S.W.Arnell, Ark. Bot. (n.ser.) 4 (1): 18, 1957 (Arnell 1957b).
- *** *Brachiolejeunea laxifolia* (Taylor) Schiffn., Hepat. (Engl.-Prantl): 128, 1893 (Schiffner 1893b). Bas.: *Phragmicoma laxifolia* Taylor, London J. Bot. 6: 341, 1847 (Taylor 1847b).
- *** *Brachiolejeunea leiboldiana* (Gottsche et Lindenb.) Schiffn., Hedwigia 33 (4): 182, 1894 (Schiffner 1894). Bas.: *Phragmicoma leiboldiana* Gottsche et Lindenb., Syn. Hepat. 2: 296, 1845 (Gottsche et al. 1845a).
- *** *Brachiolejeunea phyllorhiza* (Nees) Kruijt et Gradst., Nova Hedwigia 43 (3/4): 299, 1986 (Kruijt and Gradstein 1986). Bas.: *Jungermannia phyllorhiza* Nees, Fl. Bras. (Martius) 1 (1): 348, 1833 (Nees 1833a).
- *** *Brachiolejeunea spruceana* (C.Massal.) Schiffn., Hepat. (Engl.-Prantl): 128, 1893 (Schiffner 1893b). Bas.: *Lejeunea spruceana* C.Massal., Nuovo Giorn. Bot. Ital. 17 (3): 246, 1885 (Massalongo 1885).

- *** ***Dicranolejeunea* (Spruce) Schiffn.**, Hepat. (Engl.-Prantl): 128, 1893 (Schiffner 1893b). Bas.: *Lejeunea* subg. *Dicranolejeunea* Spruce, Trans. & Proc. Bot. Soc. Edinburgh 15: 138, 1884 (Spruce 1884).
- *** *Dicranolejeunea axillaris* (Nees et Mont.) Schiffn., Hepat. (Engl.-Prantl): 128, 1893 (Schiffner 1893b). Bas.: *Lejeunea axillaris* Nees et Mont., Ann. Sci. Nat. Bot. (sér. 2) 5: 59, 1836 (Nees and Montagne 1836).
- * *Dicranolejeunea bovonei* Gola, Nuovo Giorn. Bot. Ital. (n.ser.) 27 (2/4): 248, 1920 (Gola 1920).
- *** ***Lindigianthus* Kruijt et Gradst.**, Beih. Nova Hedwigia 80: 165, 1985 (Kruijt and Gradstein 1985).
- *** *Lindigianthus cipaconeus* (Gottsche) Kruijt et Gradst., Beih. Nova Hedwigia 80: 166, 1985 (Kruijt and Gradstein 1985). Bas.: *Lejeunea cipaconeae* Gottsche, Ann. Sci. Nat. Bot. (sér. 5) 1: 150, 1864 (Gottsche 1864).
- *** ***Odontolejeunea* (Spruce) Schiffn.**, Hepat. (Engl.-Prantl): 127, 1893 (Schiffner 1893b). Bas.: *Lejeunea* subg. *Odontolejeunea* Spruce, Trans. & Proc. Bot. Soc. Edinburgh 15: 142, 1884 (Spruce 1884).
- *** *Odontolejeunea decemdentata* (Spruce) Steph., Sp. Hepat. (Stephani) 5: 175, 1912 (Stephani 1912c). Bas.: *Lejeunea decemdentata* Spruce, Trans. & Proc. Bot. Soc. Edinburgh 15: 148, 1884 (Spruce 1884).
- *** *Odontolejeunea lunulata* (F.Weber) Schiffn., Hepat. (Engl.-Prantl): 128, 1893 (Schiffner 1893b). Bas.: *Jungermannia lunulata* F.Weber, Hist. Musc. Hepat. Prodr.: 33, 1815 (Weber 1815).
- *** *Odontolejeunea rhomalea* (Spruce) Steph., Sp. Hepat. (Stephani) 5: 176, 1912 (Stephani 1912c). Bas.: *Lejeunea rhomalea* Spruce, Trans. & Proc. Bot. Soc. Edinburgh 15: 147, 1884 (Spruce 1884).
- *** subtrib. *Stictolejeuneinae* Gradst.
- *** ***Neurolejeunea* (Spruce) Schiffn.**, Hepat. (Engl.-Prantl): 131, 1893 (Schiffner 1893b). Bas.: *Lejeunea* subg. *Neurolejeunea* Spruce, Trans. & Proc. Bot. Soc. Edinburgh 15: 84, 1884 (Spruce 1884).
- *** *Neurolejeunea breutelii* (Gottsche) A.Evans, Bull. Torrey Bot. Club 34 (1): 13, 1907 (Evans 1907b). Bas.: *Lejeunea breutelii* Gottsche, Syn. Hepat. 3: 324, 1845 (Gottsche et al. 1845b).
- ** *Neurolejeunea breutelii* var. *africana* Pócs, Herzogia 28 (1): 63, 2015 (Pócs et al. 2015b).
- *** *Neurolejeunea catenulata* (Nees) Schiffn., Hepat. (Engl.-Prantl): 131, 1893 (Schiffner 1893b). Bas.: *Lejeunea catenulata* Nees, Syn. Hepat. 3: 323, 1845 (Gottsche et al. 1845b).
- *** *Neurolejeunea sastreana* Gradst., Bryologist 92 (3): 345, 1989 (Gradstein 1989).

- *** *Neurolejeunea seminervis* (Spruce) Schiffn., *Hepat.* (Engl.-Prantl): 131, 1893 (Schiffner 1893b). Bas.: *Lejeunea seminervis* Spruce, *Trans. & Proc. Bot. Soc. Edinburgh* 15: 84, 1884 (Spruce 1884).
- *** ***Stictolejeunea* (Spruce) Schiffn.**, *Hepat.* (Engl.-Prantl): 131, 1893 (Schiffner 1893b). Bas.: *Lejeunea* subg. *Stictolejeunea* Spruce, *Trans. & Proc. Bot. Soc. Edinburgh* 15: 81, 1884 (Spruce 1884).
- *** **subg. *Leptostictolejeunea* R.M.Schust.**, *Phytologia* 56 (2): 70, 1984 (Schuster 1984).
- *** *Stictolejeunea balfourii* (Mitt.) E.W.Jones, *J. Bryol.* 9 (1): 50, 1976 (Jones 1976). Bas.: *Lejeunea balfourii* Mitt., *Philos. Trans.* 168: 398, 1879 (Mitten 1879).
- *** *Stictolejeunea balfourii* var. *bekkeri* Gradst., *Beih. Nova Hedwigia* 80: 214, 1985 (Gradstein 1985b).
- *** *Stictolejeunea iwatsukii* Mizut., *J. Hattori Bot. Lab.* 44: 134, 1978 (Mizutani 1978).
- *** **subg. *Stictolejeunea***
- *** *Stictolejeunea squamata* (Willd.) Schiffn., *Hepat.* (Engl.-Prantl): 131, 1893 (Schiffner 1893b). Bas.: *Jungermannia squamata* Willd. ex F.Weber, *Hist. Musc. Hepat. Prodr.*: 33, 1815 (Weber 1815).
- *** trib. *Lejeuneae* Dumort.
- ** ***Dactylophorella* R.M.Schust.**, *Phytologia* 45 (5): 427, 1980 (Schuster 1980b).
- *** *Dactylophorella muricata* (Gottsche) R.M.Schust., *Phytologia* 45 (5): 427, 1980 (Schuster 1980b). Bas.: *Lejeunea muricata* Gottsche, *Syn. Hepat.* 3: 348, 1845 (Gottsche et al. 1845b).
- *** ***Metalejeunea* Grolle**, *Bryophyt. Biblioth.* 48: 17, 1995 (Grolle 1995).
- ** *Metalejeunea crassitexta* (J.B.Jack et Steph.) Pócs, *Telopea* 13 (3): 456, 2011 (Pócs et al. 2011). Bas.: *Microlejeunea crassitexta* J.B.Jack et Steph., *Bot. Centralbl.* 60 (4): 106, 1894 (Jack and Stephani 1894).
- *** *Metalejeunea cucullata* (Reinw., Blume et Nees) Grolle, *Bryophyt. Biblioth.* 48: 100, 1995 (Grolle 1995). Bas.: *Jungermannia cucullata* Reinw., *Nova Acta Phys.-Med. Acad. Caes. Leop.-Carol. Nat. Cur.* 12 (1): 227, 1824 [1825] (Reinwardt et al. 1824a).
- *** *Metalejeunea winkleri* R.L.Zhu et Grolle, *Nova Hedwigia* 74 (3/4): 498, 2002 (Zhu and Grolle 2002).
- *** ***Pictolejeunea* Grolle**, *Feddes Repert.* 88 (4): 248, 1977 (Grolle 1977b).
- *** *Pictolejeunea levis* Grolle et M.E.Reiner, *J. Bryol.* 27 (3): 281, 2005 (Grolle and Reiner-Drehwald 2005).

- *** *Pictolejeunea mizutanii* Grolle, Feddes Repert. 88 (4): 255, 1977 (Grolle 1977b). *Nom. nov. pro Cheilolejeunea picta* Mizut., J. Hattori Bot. Lab. 33: 226, 1970 (Mizutani 1970).
- ** *Pictolejeunea piconii* Pócs, Acta Bot. Hung. 49 (1/2): 110, 2007 (Pócs 2007).
- *** *Pictolejeunea picta* (Steph.) Grolle, Feddes Repert. 88 (4): 252, 1977 (Grolle 1977b). Bas.: *Prionolejeunea picta* Steph., Sp. Hepat. (Stephani) 5: 223, 1913 (Stephani 1913a).
- *** *Pictolejeunea reginae* Ilk.-Borg., Brittonia 54 (4): 318, 2002 [2003] (Ilkiu-Borges 2002).
- *** *Pictolejeunea sprucei* Grolle, Feddes Repert. 88 (4): 249, 1977 (Grolle 1977b).
- * subtrib. **Ceratolejeuneinae** Gradst.
- *** ***Ceratolejeunea* (Spruce) J.B.Jack et Steph.**, Hedwigia 31 (1): 16, 1892 (Jack and Stephani 1892). Bas.: *Lejeunea* subg. *Ceratolejeunea* Spruce, Trans. & Proc. Bot. Soc. Edinburgh 15: 198, 1884 (Spruce 1884).²³³
- *** **subg. *Ceratolejeunea***
- *** *Ceratolejeunea andringitrayae* Pócs, Polish Bot. J. 56 (2): 144, 2011 (Pócs 2011c).
- ** *Ceratolejeunea atlantica* Alvarenga et Ilk.-Borg., Nova Hedwigia 86 (1/2): 238, 2008 (Ilkiu-Borges and Alvarenga 2008).
- ** *Ceratolejeunea belangeriana* (Gottsche) Steph., Sp. Hepat. (Stephani) 5: 396, 1913 (Stephani 1913a). Bas.: *Lejeunea belangeriana* Gottsche, Syn. Hepat. 3: 398, 1845 (Gottsche et al. 1845b).
- ** *Ceratolejeunea beninensis* E.W.Jones et Vanden Berghen, Bull. Jard. Bot. État Bruxelles 21 (1/2): 63, 1951 (Vanden Berghen 1951b).
- *** *Ceratolejeunea brevinervis* (Spruce) A.Evans, Bull. Torrey Bot. Club 32 (6): 282, 1905 (Evans 1905a). Bas.: *Lejeunea brevinervis* Spruce, J. Linn. Soc., Bot. 30 (210): 342, 1895 (Gepp 1895b).
- *** *Ceratolejeunea ceratantha* (Nees et Mont.) Schiffn., Bot. Jahrb. Syst. 23 (5): 582, 1897 (Schiffner 1897). Bas.: *Lejeunea ceratantha* Nees et Mont., Ann. Sci. Nat. Bot. (sér. 2) 14: 335, 1840 (Montagne 1840a).
- ** *Ceratolejeunea coalita* (Ångstr.) Steph., Sp. Hepat. (Stephani) 5: 402, 1913 (Stephani 1913a). Bas.: *Lejeunea coalita* Ångstr., Öfvers. Kongl. Vetensk.-Akad. Förh. 30 (5): 135, 1873 (Ångström 1873).
- *** *Ceratolejeunea coarina* (Gottsche) Schiffn., Hepat. (Engl.-Prantl): 125, 1893 (Schiffner 1893b). Bas.: *Lejeunea coarina* Gottsche, Syn. Hepat. 3: 395, 1845 (Gottsche et al. 1845b).

²³³ The treatment of *Ceratolejeunea* follows Dauphin (2003) except that his subg. *Caduciloba* becomes subg. *Ceratolejeunea* and his subg. *Ceratolejeunea* becomes subg. *Ceratophora* as a consequence of the introduction of ICN Art. 41.4 (cf. Söderström et al. 2015a).

- *** *Ceratolejeunea confusa* R.M.Schust., J. Elisha Mitchell Sci. Soc. 72 (2): 313, 1956 (Schuster 1956a).
- *** *Ceratolejeunea cornuta* (Lindenb.) Steph., Pflanzenw. Ost-Afrikas C: 65, 1895 (Stephani 1895d). Bas.: *Jungermannia cornuta* Lindenb., Syn. hepat. eur: 23, 1829 (Lindenberg 1829).
- *** *Ceratolejeunea cubensis* (Mont.) Schiffn., Hepat. (Engl.-Prantl): 125, 1893 (Schiffner 1893b). Bas.: *Lejeunea cubensis* Mont., Hist. Phys. Cuba, Bot., Pl. Cell.: 481, 1842 (Montagne 1842a).
- *** *Ceratolejeunea dentistipula* Steph., Sp. Hepat. (Stephani) 5: 407, 1913 (Stephani 1913a).
- *** *Ceratolejeunea fallax* (Lehm. et Lindenb.) Bonner, Candollea 14: 189, 1953 (Bonner 1953a). Bas.: *Jungermannia fallax* Lehm. et Lindenb., Nov. Stirp. Pug. 5: 17, 1833 (Lehmann 1833).
- *** *Ceratolejeunea filaria* (Taylor) Steph., Sp. Hepat. (Stephani) 5: 412, 1913 (Stephani 1913a). Bas.: *Lejeunea filaria* Taylor, Nov. Stirp. Pug. 8: 28, 1844 (Lehmann 1844).
- ** *Ceratolejeunea floribunda* Steph., Sp. Hepat. (Stephani) 5: 412, 1913 (Stephani 1913a).
- *** *Ceratolejeunea guianensis* (Nees et Mont.) Steph., Sp. Hepat. (Stephani) 5: 416, 1913 (Stephani 1913a). Bas.: *Lejeunea guianensis* Nees et Mont., Ann. Sci. Nat. Bot. (sér. 2) 14: 335, 1840 (Montagne 1840a).
- * *Ceratolejeunea karstenii* Steph., Sp. Hepat. (Stephani) 5: 420, 1913 (Stephani 1913a).
- * *Ceratolejeunea kuerschneri* Eb.Fisch. et Vanderp., Beih. Nova Hedwigia 138: 87, 2010 (Fischer and Vanderpoorten 2010).²³⁴
- *** *Ceratolejeunea laetefusca* (Austin) R.M.Schust., J. Elisha Mitchell Sci. Soc. 72 (2): 306, 1956 (Schuster 1956a). Bas.: *Lejeunea laetefusca* Austin, Bot. Bull. (Hanover) 1 (8): 36, 1876 (Austin 1876a).
- * *Ceratolejeunea ledermannii* Steph., Sp. Hepat. (Stephani) 6: 399, 1923 (Stephani 1923).
- *** *Ceratolejeunea malleigera* (Spruce) Steph., Sp. Hepat. (Stephani) 5: 422, 1913 (Stephani 1913a). Bas.: *Lejeunea malleigera* Spruce, Mem. Torrey Bot. Club 1 (3): 123, 1890 (Spruce 1890).
- ** *Ceratolejeunea maranhensis* Silva Brito et Ilk.-Borg., Nova Hedwigia 95 (3/4): 424, 2012 (Brito and Ilkiu-Borges 2012).
- ** *Ceratolejeunea minor* Mizut., J. Hattori Bot. Lab. 49: 311, 1981 (Mizutani 1981).
- *** *Ceratolejeunea minuta* G.Dauphin, Fl. Neotrop. Monogr. 90: 66, 2003 (Dauphin 2003).
- ** *Ceratolejeunea moniliata* Herzog, Mitt. Inst. Allg. Bot. Hamburg 7 (3): 205, 1931 (Herzog 1931a).
- ** *Ceratolejeunea oculata* (Gottsche) Steph., Bull. Herb. Boissier 5 (10): 842, 1897 (Stephani 1897c). Bas.: *Lejeunea oculata* Gottsche, Syn. Hepat. 3: 357, 1845 (Gottsche et al. 1845b).
- *** *Ceratolejeunea oxygonia* Steph., Sp. Hepat. (Stephani) 5: 429, 1913 (Stephani 1913a).

²³⁴ *Ceratolejeunea kuerschneri* is very similar to *Ceratolejeunea papuliflora* and may be conspecific with it.

- *** *Ceratolejeunea papuliflora* Steph., Sp. Hepat. (Stephani) 5: 430, 1913 (Stephani 1913a).
- *** *Ceratolejeunea patentissima* (Hampe et Gottsche) A.Evans, Bull. Torrey Bot. Club 32 (6): 286, 1905 (Evans 1905a). Bas.: *Lejeunea patentissima* Hampe et Gottsche, Linnaea 25 (3): 355, 1852 [1853] (Hampe and Gottsche 1852).
- *** *Ceratolejeunea pungens* Steph., Sp. Hepat. (Stephani) 5: 434, 1913 (Stephani 1913a).
- *** *Ceratolejeunea rubiginosa* Steph., Hedwigia 34 (5): 237, 1895 (Stephani 1895b).
- *** *Ceratolejeunea saroltae* Pócs, Polish Bot. J. 56 (2): 150, 2011 (Pócs 2011c).
- * *Ceratolejeunea sinensis* P.C.Chen et P.C.Wu, Acta Phytotax. Sin. 9 (3): 232, 1964 (Chen and Wu 1964).²³⁵
- ** *Ceratolejeunea singaporensis* (Lindenb.) Schiffn., Consp. Hepat. Arch. Ind.: 273, 1898 (Schiffner 1898b). Bas.: *Lejeunea singaporensis* Lindenb., Syn. Hepat. 3: 397, 1845 (Gottsche et al. 1845b).
- *** *Ceratolejeunea spinosa* (Gottsche) Steph., Hedwigia 34 (5): 238, 1895 (Stephani 1895b). Bas.: *Lejeunea spinosa* Gottsche, Syn. Hepat. 3: 402, 1845 (Gottsche et al. 1845b).
- *** *Ceratolejeunea temnantha* (Spruce) M.E.Reiner, Cryptog. Bryol. 32 (2): 95, 2011 (Reiner-Drehwald 2011). Bas.: *Lejeunea temnantha* Spruce, Trans. & Proc. Bot. Soc. Edinburgh 15: 250, 1884 (Spruce 1884).
- *** *Ceratolejeunea umbonata* Steph., Sp. Hepat. (Stephani) 5: 446, 1913 (Stephani 1913a).
- ** *Ceratolejeunea vitiensis* Steph., Sp. Hepat. (Stephani) 5: 448, 1913 (Stephani 1913a).
- ** *Ceratolejeunea zenkeri* Steph., Sp. Hepat. (Stephani) 5: 449, 1914 (Stephani 1914b).
- *** **subg. *Ceratophora* R.M.Schust.**, J. Elisha Mitchell Sci. Soc. 72 (2): 294, 1956 (Schuster 1956a).
- *** *Ceratolejeunea desciscens* (Sande Lac.) Schiffn., Hepat. (Engl.-Prantl): 126, 1893 (Schiffner 1893b). Bas.: *Lejeunea desciscens* Sande Lac., Syn. hepat. jav.: 107, 1856 [1857] (Sande Lacoste 1856b).
- *** *Ceratolejeunea globulifera* Herzog, Rev. Bryol. Lichénol. 13: 23, 1942 (Herzog 1942e).
- *** *Ceratolejeunea grandiloba* J.B.Jack et Steph., Hedwigia 31 (1): 16, 1892 (Jack and Stephani 1892).
- ** *Ceratolejeunea grandiloba* subsp. *inflata* (Mizut.) Gradst., Phytotaxa 81 (1): 5, 2013 (Gradstein 2013d). Bas.: *Ceratolejeunea inflata* Mizut., J. Hattori Bot. Lab. 49: 313, 1981 (Mizutani 1981).
- *** *Ceratolejeunea szyszyłowiczii* (Loitl.) Steph., Sp. Hepat. (Stephani) 5: 443, 1913 (Stephani 1913a). Bas.: *Lejeunea szyszyłowiczii* Loitl., Diagn. pl. nov.: 19, 1894 (Loitlesberger 1894).

Incertae sedis

- ** *Ceratolejeunea aliena* Herzog, Trans. Brit. Bryol. Soc. 2 (1): 71, 1952 (Herzog 1952a).

235 *Ceratolejeunea sinensis* may be conspecific with *Drepanolejeunea erecta* (Zhu et al. 2005).

- *** ***Luteolejeunea Piippo***, Acta Bot. Fenn. 132: 56, 1986 (Piippo 1986a).
- *** *Luteolejeunea herzogii* (Buchloh) Piippo, Acta Bot. Fenn. 132: 57, 1986 (Piippo 1986a). Bas.: *Stictolejeunea herzogii* Buchloh, Nova Hedwigia 3 (4): 515, 1961 (Buchloh 1961).
- *** ***Otigoniolejeunea (Spruce) Schiffn.***, Hepat. (Engl.-Prantl): 125, 1893 (Schiffner 1893b). Bas.: *Lejeunea* subg. *Otigoniolejeunea* Spruce, Trans. & Proc. Bot. Soc. Edinburgh 15: 226, 1884 (Spruce 1884).
- * *Otigoniolejeunea crenulata* Steph., Sp. Hepat. (Stephani) 6: 408, 1923 (Stephani 1923).²³⁶
- *** *Otigoniolejeunea huctumalcensis* (Lindenb. et Gottsche) Y.M.Wei, R.L.Zhu et Gradst., Phytotaxa 162 (4): 237, 2014 (Wei et al. 2014). Bas.: *Lejeunea huctumalcensis* Lindenb. et Gottsche, Syn. Hepat. 5: 762, 1847 (Gottsche et al. 1847).
- * *Otigoniolejeunea ledermannii* Steph., Sp. Hepat. (Stephani) 6: 409, 1923 (Stephani 1923).²³⁷
- *** *Otigoniolejeunea portoricensis* (Hampe et Gottsche) Y.M.Wei, R.L.Zhu et Gradst., Phytotaxa 162 (4): 237, 2014 (Wei et al. 2014). Bas.: *Lejeunea portoricensis* Hampe et Gottsche, Linnaea 25 (3): 352, 1852 [1853] (Hampe and Gottsche 1852).
- *** subtrib. *Cheilolejeuneinae* Gradst.
- * ***Aureolejeunea R.M.Schust.***, Phytologia 39 (6): 428, 1978 (Schuster 1978b).²³⁸
- *** *Aureolejeunea aurifera* R.M.Schust., Phytologia 39 (6): 429, 1978 (Schuster 1978b).
- *** *Aureolejeunea lumae* (Herzog) van Slageren, Meded. Bot. Mus. Herb. Rijks Univ. Utrecht 544: 121, 1985 (van Slageren 1985). Bas.: *Brachiolejeunea lumae* Herzog, Beih. Bot. Centralbl. 60B (1/2): 15, 1939 (Herzog 1939c).
- *** *Aureolejeunea paramicola* (Herzog) R.M.Schust., Phytologia 61 (7): 446, 1987 (Schuster 1987c). Bas.: *Brachiolejeunea paramicola* Herzog, Hedwigia 74 (2): 95, 1934 (Herzog 1934a).
- *** *Aureolejeunea quinquecarinata* R.M.Schust., Phytologia 39 (6): 429, 1978 (Schuster 1978b).
- *** *Aureolejeunea tonduzana* (Steph.) Gradst., Phytotaxa 76 (3): 46, 2013 (Gradstein 2013a). Bas.: *Archilejeunea tonduzana* Steph., Sp. Hepat. (Stephani) 4: 721, 1911 (Stephani 1911e).

236 *Otigoniolejeunea crenulata* is a doubtful taxon. The type specimen was burned in B and it is unclear where the taxon belongs (Grolle and Piippo (1984).

237 *Otigoniolejeunea ledermannii* is a doubtful taxon. The type specimen was burned in B and it is unclear where the taxon belongs (Grolle and Piippo (1984).

238 *Aureolejeunea* is nested in *Cheilolejeunea* (Ye et al. 2011, Gradstein 2013a, Ye et al. 2015). A formal transfer of the genus and its species to *Cheilolejeunea* is found in Ye et al. (2015).

- *** *Cheilolejeunea* (Spruce) Steph., Bot. Gaz. 15 (11): 284, 1890 (Stephani 1890c). Bas.: *Lejeunea* subg. *Cheilolejeunea* Spruce, Trans. & Proc. Bot. Soc. Edinburgh 15: 251, 1884 (Spruce 1884).²³⁹
- ** *Cheilolejeunea sandvicensis* (Prantl) Steph., Bull. Herb. Boissier 5 (10): 842, 1897 (Stephani 1897c). Bas.: *Lejeunea sandvicensis* Prantl, Hedwigia 29: xvii, 1890 (Prantl 1890).
- ** subg. *Cheilolejeunea*
- *** *Cheilolejeunea acanthina* (Spruce) Gradst. et Ilk.-Borg., Mem. New York Bot. Gard. 76 (4): 62, 2009 (Gradstein and Ilkiu-Borges 2009). Bas.: *Lejeunea acanthina* Spruce, Trans. & Proc. Bot. Soc. Edinburgh 15: 182, 1884 (Spruce 1884).
- *** *Cheilolejeunea adnata* (Kunze ex Lehm.) Grolle, J. Bryol. 9 (4): 529, 1977 [1978] (Grolle 1977a). Bas.: *Jungermannia adnata* Kunze ex Lehm., Nov. Stirp. Pug. 6: 46, 1834 (Lehmann 1834).
- ** *Cheilolejeunea adnata* var. *autoica* Gradst. et Ilk.-Borg., Mem. New York Bot. Gard. 76 (4): 64, 2009 (Gradstein and Ilkiu-Borges 2009).
- ** *Cheilolejeunea albovirens* (Hook.f. et Taylor) E.A.Hodgs., Rec. Domin. Mus. 4 (11): 127, 1962 (Hodgson 1962a). Bas.: *Jungermannia albovirens* Hook.f. et Taylor, London J. Bot. 3: 397, 1844 (Hooker and Taylor 1844a).
- *** *Cheilolejeunea aneogyna* (Spruce) A.Evans, Trans. Connecticut Acad. Arts 10 (8): 440, 1900 (Evans 1900a). Bas.: *Lejeunea aneogyna* Spruce, Trans. & Proc. Bot. Soc. Edinburgh 15: 254, 1884 (Spruce 1884).
- ** *Cheilolejeunea ascensionis* (Hook.f. et Taylor) Grolle, Haussknechtia 4: 45, 1988 (Grolle 1988a). Bas.: *Jungermannia ascensionis* Hook.f. et Taylor, London J. Bot. 4: 91, 1845 (Hooker and Taylor 1845).
- *** *Cheilolejeunea asperiflora* (Spruce) Gradst. et Ilk.-Borg., Mem. New York Bot. Gard. 76 (4): 62, 2009 (Gradstein and Ilkiu-Borges 2009). Bas.: *Lejeunea asperiflora* Spruce, Trans. & Proc. Bot. Soc. Edinburgh 15: 183, 1884 (Spruce 1884).
- ** *Cheilolejeunea australis* Solari, Comun. Mus. Argent. Ci. Nat. "Bernardino Rivadavia," Ci. Bot. 2 (11): 70, 1981 (Solari 1981).
- ** *Cheilolejeunea baumannii* Hürl., Bauhinia 11 (3): 160, 1995 (Hürlimann 1995).
- *** *Cheilolejeunea beyrichii* (Lindenb.) M.E.Reiner, Nova Hedwigia 83 (3/4): 474, 2006 (Reiner-Drehwald 2006). Bas.: *Lejeunea beyrichii* Lindenb., Syn. Hepat. 3: 371, 1845 (Gottsche et al. 1845b).
- ** *Cheilolejeunea boninensis* Mizut., J. Hattori Bot. Lab. 51: 153, 1982 (Mizutani 1982).

239 *Cheilolejeunea* is here organized into subgenera that are maintained for practical purposes. They may not be natural lineages. An improved infrageneric classification based on molecular analysis is in preparation (Ye et al. 2015). The genus includes *Euosmolejeunea*, *Strepsilejeunea* and *Trachylejeunea*, but several taxa have neither been transferred nor synonymized. They are listed under "Names in genera not currently accepted" below.

- *** *Cheilolejeunea caducifolia* (Gradst. et Schäf.-Verw.) W.Ye et R.L.Zhu, *J. Bryol.* 32 (4): 280, 2010 (Ye and Zhu 2010). Bas.: *Leucolejeunea caducifolia* Gradst. et Schäf.-Verw., *J. Hattori Bot. Lab.* 74: 64, 1993 (Gradstein et al. 1993).
- ** *Cheilolejeunea camerunensis* S.W.Arnell, *Svensk Bot. Tidskr.* 52 (1): 63, 1958 (Arnell 1958a).
- ** *Cheilolejeunea celebensis* (Steph.) Mizut., *J. Hattori Bot. Lab.* 36: 157, 1972 [1973] (Mizutani 1972a). Bas.: *Trachylejeunea celebensis* Steph., *Sp. Hepat.* (Stephani) 5: 312, 1913 (Stephani 1913a).
- ** *Cheilolejeunea chenii* R.L.Zhu et M.L.So, *Taxon* 48 (4): 663, 1999 (Zhu et al. 1999). *Nom. nov. pro Neurolejeunea fukiensis* P.C.Chen et P.C.Wu, *Acta Phytotax. Sin.* 9 (3): 227, 1964 (Chen and Wu 1964).
- *** *Cheilolejeunea clypeata* (Schwein.) W.Ye et R.L.Zhu, *J. Bryol.* 32 (4): 280, 2010 (Ye and Zhu 2010). Bas.: *Jungermannia clypeata* Schwein., *Spec. Fl. Amer. Crypt.*: 12, 1821 (Schweinitz 1821).
- ** *Cheilolejeunea compressa* (Herzog) Grolle, *Bryophyt. Biblioth.* 48: 38, 1995 (Grolle 1995). Bas.: *Strepsilejeunea compressa* Herzog, *Bot. Not.* 100 (4): 325, 1947 (Herzog 1947).
- *** *Cheilolejeunea conchifolia* (A.Evans) W.Ye et R.L.Zhu, *J. Bryol.* 32 (4): 280, 2010 (Ye and Zhu 2010). Bas.: *Archilejeunea conchifolia* A.Evans, *Mem. Torrey Bot. Club* 8 (2): 128, 1902 (Evans 1902a).
- *** *Cheilolejeunea cordigera* (Steph.) Grolle, *J. Bryol.* 9 (4): 530, 1977 [1978] (Grolle 1977a). Bas.: *Hygrolejeunea cordigera* Steph., *Hedwigia* 35 (3): 100, 1896 (Stephani 1896b).
- ** *Cheilolejeunea coronalis* (Gottsche) R.M.Schust., *Phytologia* 45 (5): 431, 1980 (Schuster 1980b). Bas.: *Lejeunea coronalis* Gottsche, *Syn. Hepat.* 3: 361, 1845 (Gottsche et al. 1845b).
- * *Cheilolejeunea curvatilobula* (Herzog) Grolle, *J. Bryol.* 21 (1): 41, 1999 (Grolle and Reiner-Drehwald 1999). Bas.: *Harpalejeunea curvatilobula* Herzog, *Feddes Repert. Spec. Nov. Regni Veg.* 57 (1/2): 184, 1955 (Herzog 1955).
- *** *Cheilolejeunea decursiva* (Sande Lac.) R.M.Schust., *Beih. Nova Hedwigia* 9: 112, 1963 (Schuster 1963a). Bas.: *Lejeunea decursiva* Sande Lac., *Ned. Kruidk. Arch.* 3: 522, 1855 (Sande Lacoste 1855).
- *** *Cheilolejeunea discoidea* (Lehm. et Lindenb.) R.M.Schust. et Kachroo, *J. Linn. Soc., Bot.* 56 (368): 509, 1961 (Kachroo and Schuster 1961). Bas.: *Jungermannia discoidea* Lehm. et Lindenb., *Nov. Stirp. Pug.* 6: 47, 1834 (Lehmann 1834).
- ** *Cheilolejeunea diversifolia* Augier, *Ann. Fac. Sci. Univ. Féd. Cameroun* 11: 66, 1972 (Augier 1972).
- ** *Cheilolejeunea ecarinata* Vanden Berghen, *Bull. Jard. Bot. Natl. Belg.* 54 (1/2): 11, 1984 (Vanden Berghen 1984b).
- ** *Cheilolejeunea erostrata* R.M.Schust., *Phytologia* 39 (6): 427, 1978 (Schuster 1978b).
- *** *Cheilolejeunea exinnovata* E.W.Jones, *J. Bryol.* 12 (1): 37, 1982 (Jones 1982).
- *** *Cheilolejeunea fragrantissima* (Spruce) R.M.Schust., *Phytologia* 45 (5): 431, 1980 (Schuster 1980b). Bas.: *Lejeunea fragrantissima* Spruce, *Trans. & Proc. Bot. Soc. Edinburgh* 15: 243, 1884 (Spruce 1884).

- * *Cheilolejeunea fukiensis* (P.C.Chen et P.C.Wu) Piippo, J. Hattori Bot. Lab. 68: 133, 1990 (Piippo 1990). Bas.: *Euosmolejeunea fukiensis* P.C.Chen et P.C.Wu, Acta Phytotax. Sin. 9 (3): 232, 1964 (Chen and Wu 1964).²⁴⁰
- * *Cheilolejeunea galliotii* Steph., Sp. Hepat. (Stephani) 5: 656, 1914 (Stephani 1914b).
- ** *Cheilolejeunea germanii* (Besch. et Spruce) Grolle, Acta Bot. Fenn. 125: 64, 1984 (Grolle and Piippo 1984). Bas.: *Lejeunea germanii* Besch. et Spruce, Bull. Soc. Bot. France (Congr. Bot.) 36: clxxxvii, 1889 [1890] (Bescherelle and Spruce 1889).
- ** *Cheilolejeunea ghatensis* G.Asthana, S.C.Srivast. et A.K.Asthana, Lindbergia 20 (2/3): 132, 1995 [1996] (Asthana et al. 1995).
- *** *Cheilolejeunea gradsteinii* (Grolle et Piippo) W.Ye et R.L.Zhu, J. Bryol. 32 (4): 280, 2010 (Ye and Zhu 2010). Bas.: *Leucolejeunea gradsteinii* Grolle et Piippo, Ann. Bot. Fenn. 27 (2): 122, 1990 (Grolle and Piippo 1990).
- ** *Cheilolejeunea grandibracteata* Steph., Sp. Hepat. (Stephani) 5: 657, 1914 (Stephani 1914b).
- ** *Cheilolejeunea hamlinii* Grolle, Wiss. Z. Friedrich-Schiller-Univ. Jena, Math.-Naturwiss. Reihe 31 (2): 212, 1982 (Grolle 1982). *Nom. nov. pro Strepsilejeunea curnowii* Steph., Hedwigia 35 (3): 129, 1896 (Stephani 1896b).
- ** *Cheilolejeunea hawaica* Steph., Bull. Herb. Boissier 5 (10): 847, 1897 (Stephani 1897c).
- * *Cheilolejeunea herzogiana* Steph., Biblioth. Bot. 87 (2): 267, 1916 (Stephani 1916a).
- ** *Cheilolejeunea implexicaulis* (Hook.f. et Taylor) R.M.Schust., J. Hattori Bot. Lab. 26: 245, 1963 (Schuster 1963b). Bas.: *Jungermannia implexicaulis* Hook.f. et Taylor, London J. Bot. 3: 397, 1844 (Hooker and Taylor 1844a).
- *** *Cheilolejeunea insecta* Grolle et Gradst., Taxon 50 (4): 1071, 2001 [2002] (Grolle et al. 2001).
- ** *Cheilolejeunea insignis* Jovet-Ast et Tixier, Rev. Bryol. Lichénol. 31 (1/2): 25, 1962 (Jovet-Ast and Tixier 1962).
- ** *Cheilolejeunea intricata* (Steph.) J.J.Engel, Bryologist 79 (4): 514, 1976 [1977] (Engel 1976b). Bas.: *Harpalejeunea intricata* Steph., Sp. Hepat. (Stephani) 5: 269, 1913 (Stephani 1913a).
- ** *Cheilolejeunea invaginata* R.M.Schust., Phytologia 39 (6): 427, 1978 (Schuster 1978b).
- ** *Cheilolejeunea jamaicensis* Steph., Hedwigia 34 (5): 241, 1895 (Stephani 1895b).
- ** *Cheilolejeunea japonica* (Horik.) W.Ye et R.L.Zhu, J. Bryol. 32 (4): 280, 2010 (Ye and Zhu 2010). Bas.: *Archilejeunea japonica* Horik., J. Sci. Hiroshima Univ., Ser. B, Div. 2, Bot. 1: 84, 1932 (Horikawa 1932a).
- ** *Cheilolejeunea kitagawae* W.Ye et R.L.Zhu, J. Bryol. 32 (4): 280, 2010 (Ye and Zhu 2010). *Nom. nov. pro Leucolejeunea paroica* N.Kitag., Acta Phytotax. Geobot. 18 (7): 190, 1960 (Kitagawa 1960a).
- *** *Cheilolejeunea lacerata* C.J.Bastos et Gradst., J. Bryol. 28 (2): 133, 2006 (Bastos and Gradstein 2006).

²⁴⁰ *Cheilolejeunea fukiensis* may be conspecific with *Lejeunea flava* (Zhu and So 2001), but they did not see the type specimen.

- ** *Cheilolejeunea larsenii* Mizut., Dansk Bot. Ark. 27 (1): 95, 1969 (Hattori and Mizutani 1969).
- * *Cheilolejeunea laurentii* Steph., Sp. Hepat. (Stephani) 5: 647, 1914 (Stephani 1914b).²⁴¹
- ** *Cheilolejeunea leptophylla* (Ångstr.) Steph., Sp. Hepat. (Stephani) 5: 657, 1914 (Stephani 1914b). Bas.: *Lejeunea leptophylla* Ångstr., Öfvers. Kongl. Vetensk.-Akad. Förh. 33 (7): 86, 1876 [1877] (Ångström 1876).
- * *Cheilolejeunea longiflora* (Taylor) R.M.Schust., Phytologia 45 (5): 431, 1980 (Schuster 1980b). Bas.: *Lejeunea longiflora* Taylor, London J. Bot. 5: 396, 1846 (Taylor 1846b).²⁴²
- ** *Cheilolejeunea longispina* (Herzog) R.M.Schust., Beih. Nova Hedwigia 9: 111, 1963 (Schuster 1963a). Bas.: *Harpalejeunea longispina* Herzog, Rev. Bryol. Lichénol. 23 (1/2): 61, 1954 (Herzog 1954).
- ** *Cheilolejeunea loriana* (Steph.) W.Ye et R.L.Zhu, J. Bryol. 32 (4): 280, 2010 (Ye and Zhu 2010). Bas.: *Symbiezidium lorianum* Steph., Sp. Hepat. (Stephani) 5: 106, 1912 (Stephani 1912c).
- ** *Cheilolejeunea ludoviciae* Steph., Sp. Hepat. (Stephani) 5: 668, 1914 (Stephani 1914b).
- ** *Cheilolejeunea lurida* (Lindenb.) Steph., Sp. Hepat. (Stephani) 5: 658, 1914 (Stephani 1914b). Bas.: *Lejeunea lurida* Lindenb., Syn. Hepat. 3: 379, 1845 (Gottsche et al. 1845b).
- ** *Cheilolejeunea macroloba* (Herzog) Grolle, Wiss. Z. Friedrich-Schiller-Univ. Jena, Math.-Naturwiss. Reihe 31 (2): 212, 1982 (Grolle 1982). Bas.: *Strepsilejeunea macroloba* Herzog, Nat. Hist. Juan Fernandez (Botany) 2 (5): 742, 1942 (Herzog 1942a).
- *** *Cheilolejeunea malaccensis* (G.Hoffm.) Xiao L.He, Ann. Bot. Fenn. 33 (1): 59, 1996 (He 1996b). Bas.: *Pycnolejeunea malaccensis* G.Hoffm., Ann. Bryol. 8: 118, 1935 (Hoffman 1935).
- ** *Cheilolejeunea mammifera* R.M.Schust., Phytologia 45 (5): 429, 1980 (Schuster 1980b).
- *** *Cheilolejeunea mariana* (Gottsche) B.M.Thiers et Gradst., Mem. New York Bot. Gard. 52: 75, 1989 (Thiers and Gradstein 1989). Bas.: *Lejeunea mariana* Gottsche, Syn. Hepat. 3: 337, 1845 (Gottsche et al. 1845b).
- ** *Cheilolejeunea mexicana* Steph., Sp. Hepat. (Stephani) 6: 417, 1923 (Stephani 1923).
- * *Cheilolejeunea micholitzii* (Steph.) R.M.Schust. et Kachroo, J. Linn. Soc., Bot. 56 (368): 509, 1961 (Kachroo and Schuster 1961). Bas.: *Pycnolejeunea micholitzii* Steph., Sp. Hepat. (Stephani) 5: 627, 1914 (Stephani 1914b).²⁴³

241 *Cheilolejeunea laurentii* is not a *Cheilolejeunea* species (Jones 1954b, Wigginton and Grolle 1996). We do not know where to refer it.

242 *Cheilolejeunea longiflora* is possibly conspecific with *Cheilolejeunea trifaria* (Gradstein and Costa 2003).

243 *Cheilolejeunea micholitzii* is conspecific with *Cheilolejeunea longidens* in Thiers (1992b), but accepted by Hürlimann (1995).

- ** *Cheilolejeunea microscypha* (Hook.f. et Taylor) M.Wigginton, J. Bryol. 34 (4): 269, 2012 (Wigginton 2012). Bas.: *Jungermannia microscypha* Hook.f. et Taylor, London J. Bot. 4: 90, 1845 (Hooker and Taylor 1845).
- *** *Cheilolejeunea mizutanii* W.Ye et R.L.Zhu, J. Bryol. 32 (4): 281, 2010 (Ye and Zhu 2010). *Nom. nov. pro Hygrolejeunea decurrens* Steph., Hedwigia 35 (3): 101, 1896 (Stephani 1896b).
- *** *Cheilolejeunea neblinensis* Ilk.-Borg. et Gradst., Nova Hedwigia 87 (3/4): 522, 2008 (Ilkiu-Borges and Gradstein 2008).
- ** *Cheilolejeunea nietneri* (Steph.) Mizut., J. Hattori Bot. Lab. 37: 191, 1973 (Mizutani 1973). Bas.: *Harpalejeunea nietneri* Steph., Sp. Hepat. (Stephani) 6: 392, 1923 (Stephani 1923).
- *** *Cheilolejeunea norisiae* G.Dauphin et Gradst., J. Bryol. 25 (4): 259, 2003 (Dauphin and Gradstein 2003).
- ** *Cheilolejeunea novaeselandiae* R.M.Schust., Phytologia 56 (7): 459, 1985 (Schuster 1985c).
- *** *Cheilolejeunea obcordata* Herzog, Mitt. Inst. Allg. Bot. Hamburg 7 (3): 209, 1931 (Herzog 1931a).
- ** *Cheilolejeunea obruncata* (Mont.) Solari, J. Hattori Bot. Lab. 54: 539, 1983 (Solari 1983a). Bas.: *Lejeunea obruncata* Mont., Ann. Sci. Nat. Bot. (sér. 3) 4: 354, 1845 (Montagne 1845b).
- ** *Cheilolejeunea obtusa* (Herzog) Solari, J. Hattori Bot. Lab. 54: 537, 1983 (Solari 1983a). Bas.: *Harpalejeunea obtusa* Herzog, Rev. Bryol. Lichénol. 29 (3/4): 193, 1960 [1961] (Herzog 1960).
- ** *Cheilolejeunea obtusifolia* (Steph.) S.Hatt., J. Hattori Bot. Lab. 18: 116, 1957 (Hattori 1957a). Bas.: *Harpalejeunea obtusifolia* Steph., Sp. Hepat. (Stephani) 5: 265, 1913 (Stephani 1913a).
- ** *Cheilolejeunea oclusa* (Herzog) T.Kodama et N.Kitag., Bull. Osaka Mus. Nat. Hist. 28: 40, 1974 (Kitagawa and Kodama 1974). Bas.: *Strepsilejeunea oclusa* Herzog, Trans. Brit. Bryol. Soc. 1 (4): 320, 1950 (Herzog 1950a).
- ** *Cheilolejeunea orientalis* (Gottsche) Mizut., J. Hattori Bot. Lab. 35: 399, 1972 (Mizutani 1972b). Bas.: *Lejeunea orientalis* Gottsche, Syn. Hepat. 3: 371, 1845 (Gottsche et al. 1845b).
- ** *Cheilolejeunea ovistipula* Steph., Hedwigia 34 (5): 244, 1895 (Stephani 1895b).
- ** *Cheilolejeunea panurensis* (Spruce) Steph., Sp. Hepat. (Stephani) 5: 660, 1914 (Stephani 1914b). Bas.: *Lejeunea panurensis* Spruce, Trans. & Proc. Bot. Soc. Edinburgh 15: 255, 1884 (Spruce 1884).
- ** *Cheilolejeunea papillata* Solari, Comun. Mus. Argent. Ci. Nat. "Bernardino Rivadavia," Ci. Bot. 2 (11): 72, 1981 (Solari 1981).
- ** *Cheilolejeunea paroica* Mizut., J. Hattori Bot. Lab. 46: 364, 1979 (Mizutani 1979b).
- ** *Cheilolejeunea piriflora* Schiffn., Bot. Jahrb. Syst. 23 (5): 592, 1897 (Schiffner 1897). Based on: *Lejeunea piriflora* Gottsche ex Pol., J. Bot. 15: 227, 1877 (Polakowski 1877), *nom. inval.*

- *** *Cheilolejeunea polystachya* (Spruce) Gradst. et Ilk.-Borg., Mem. New York Bot. Gard. 76 (4): 62, 2009 (Gradstein and Ilkiu-Borges 2009). Bas.: *Lejeunea polystachya* Spruce, Trans. & Proc. Bot. Soc. Edinburgh 15: 250, 1884 (Spruce 1884).
- ** *Cheilolejeunea renneri* (G.Hoffm.) Xiao L.He, Ann. Bot. Fenn. 33 (1): 62, 1996 (He 1996b). Bas.: *Pycnolejeunea renneri* G.Hoffm., Ann. Bryol. 8: 117, 1935 (Hoffman 1935).
- *** *Cheilolejeunea rotundistipula* (Lindenb. ex Lehm.) Malombe, Acta Bot. Hung. 51 (3/4): 322, 2009 (Malombe 2009). Bas.: *Jungermannia rotundistipula* Lindenb. ex Lehm., Linnæa 4: 360, 1829 (Lehmann 1829).
- ** *Cheilolejeunea rufescens* (Lindenb.) Grolle, Wiss. Z. Friedrich-Schiller-Univ. Jena, Math.-Naturwiss. Reihe 31 (2): 212, 1982 (Grolle 1982). Bas.: *Lejeunea rufescens* Lindenb., Syn. Hepat. 3: 366, 1845 (Gottsche et al. 1845b).
- ** *Cheilolejeunea stenochiza* (Ångstr.) A.Evans, Trans. Connecticut Acad. Arts 10 (8): 436, 1900 (Evans 1900a). Bas.: *Lejeunea stenochiza* Ångstr., Öfvers. Kongl. Vetensk.-Akad. Förh. 29 (4): 26, 1872 (Ångström 1872).
- ** *Cheilolejeunea subcrenulata* (Spruce) R.M.Schust., Phytologia 45 (5): 431, 1980 (Schuster 1980b). Bas.: *Lejeunea subcrenulata* Spruce, Trans. & Proc. Bot. Soc. Edinburgh 15: 245, 1884 (Spruce 1884).
- * *Cheilolejeunea suborbicularis* (Herzog) H.A.Mill., Bonner et Bischl., Nova Hedwigia 4: 559, 1962 [1963] (Miller et al. 1962). Bas.: *Microlejeunea suborbicularis* Herzog, Memoranda Soc. Fauna Fl. Fennica 26: 65, 1950 [1951] (Herzog 1950b).
- *** *Cheilolejeunea suprema* (Grolle et Piippo) W.Ye et R.L.Zhu, J. Bryol. 32 (4): 281, 2010 (Ye and Zhu 2010). Bas.: *Leucolejeunea suprema* Grolle et Piippo, Ann. Bot. Fenn. 27 (2): 123, 1990 (Grolle and Piippo 1990).
- ** *Cheilolejeunea surrepens* (Mitt.) E.W.Jones, J. Bryol. 9 (1): 49, 1976 (Jones 1976). Bas.: *Lejeunea surrepens* Mitt., Philos. Trans. 168: 399, 1879 (Mitten 1879).
- *** *Cheilolejeunea turgida* (Mitt.) W.Ye et R.L.Zhu, J. Bryol. 32 (4): 281, 2010 (Ye and Zhu 2010). Bas.: *Lejeunea turgida* Mitt., J. Proc. Linn. Soc., Bot. 5 (18): 110, 1860 [1861] (Mitten 1860c).
- * *Cheilolejeunea ulugurica* Malombe, Eb.Fisch. et Pócs, Acta Biol. Pl. Agr. 1: 24, 2010 [2011] (Malombe et al. 2010).²⁴⁴
- *** *Cheilolejeunea uncioba* (Lindenb.) Malombe, Acta Bot. Hung. 51 (3/4): 325, 2009 (Malombe 2009). Bas.: *Lejeunea uncioba* Lindenb., Syn. Hepat. 3: 331, 1845 (Gottsche et al. 1845b).
- ** *Cheilolejeunea upoluensis* S.W.Arnell, Svensk Bot. Tidskr. 50 (3): 516, 1956 (Arnell 1956a).
- ** *Cheilolejeunea valenciae* (Steph.) Xiao L.He, Ann. Bot. Fenn. 33 (1): 55, 1996 (He 1996a). Bas.: *Pycnolejeunea valenciae* Steph., Sp. Hepat. (Stephani) 5: 605, 1914 (Stephani 1914b).

²⁴⁴ *Cheilolejeunea ulugurica* is possibly conspecific with *Cheilolejeunea chenii* (Ye et al. 2013a).

- ** *Cheilolejeunea virescens* (Lehm. et Lindenb.) Steph., Sp. Hepat. (Stephani) 5: 662, 1914 (Stephani 1914b). Bas.: *Lejeunea virescens* Lehm. et Lindenb., Nov. Stirp. Pug. 7: 21, 1838 (Lehmann 1838).
- * *Cheilolejeunea viridis* Steph., Sp. Hepat. (Stephani) 5: 673, 1914 (Stephani 1914b).
- ** *Cheilolejeunea warnstorffii* (Steph.) Solari, Darwiniana 20 (3/4): 387, 1976 (Solari 1976). Bas.: *Strepsilejeunea warnstorffii* Steph., Hedwigia 35 (3): 131, 1896 (Stephani 1896b).
- * *Cheilolejeunea wrightii* Steph., Sp. Hepat. (Stephani) 5: 662, 1914 (Stephani 1914b).
- *** *Cheilolejeunea xanthocarpa* (Lehm. et Lindenb.) Malombe, Acta Bot. Hung. 51 (3/4): 326, 2009 (Malombe 2009). Bas.: *Jungermannia xanthocarpa* Lehm. et Lindenb., Nov. Stirp. Pug. 5: 8, 1833 (Lehmann 1833).
- ** *Cheilolejeunea xanthophylla* (Lindenb.) Steph., Sp. Hepat. (Stephani) 5: 663, 1914 (Stephani 1914b). Bas.: *Lejeunea xanthophylla* Lindenb., Syn. Hepat. 3: 370, 1845 (Gottsche et al. 1845b).
- ** **subg. *Euosmolejeunea* (Spruce) Kachroo**, Ceylon J. Sci., Biol. Sci. 8 (1): 6, 1968 (Kachroo 1968). Bas.: *Lejeunea* subg. *Euosmolejeunea* Spruce, Trans. & Proc. Bot. Soc. Edinburgh 15: 241, 1884 (Spruce 1884).
- ** *Cheilolejeunea aciculifera* R.M.Schust., Phytologia 45 (5): 428, 1980 (Schuster 1980b).
- ** *Cheilolejeunea acutangula* (Nees) Grolle, J. Hattori Bot. Lab. 45: 173, 1979 (Grolle 1979c). Bas.: *Jungermannia acutangula* Nees, Fl. Bras. (Martius) 1 (1): 357, 1833 (Nees 1833a).
- *** *Cheilolejeunea asperrima* (Steph.) Grolle, J. Hattori Bot. Lab. 58: 197, 1985 (Grolle 1985b). Bas.: *Taxilejeunea asperrima* Steph., Biblioth. Bot. 87 (2): 259, 1916 (Stephani 1916a).
- ** *Cheilolejeunea birmensis* (Steph.) Mizut., J. Hattori Bot. Lab. 27: 139, 1964 (Mizutani 1964a). Bas.: *Strepsilejeunea birmensis* Steph., Sp. Hepat. (Stephani) 5: 286, 1913 (Stephani 1913a).
- ** *Cheilolejeunea campbelliensis* (Steph.) R.M.Schust., J. Hattori Bot. Lab. 26: 245, 1963 (Schuster 1963b). Bas.: *Strepsilejeunea campbelliensis* Steph., Hedwigia 35 (3): 128, 1896 (Stephani 1896b).
- ** *Cheilolejeunea cedercreutzii* (H.Buch et Perss.) Grolle, Feddes Repert. 87 (3/4): 188, 1976 (Grolle 1976a). Bas.: *Euosmolejeunea cedercreutzii* H.Buch et Perss., Bryophyt. Azoren Madeira: 9, 1941 (Buch and Persson 1941).
- ** *Cheilolejeunea choachina* (Gottsche) Gradst., Mem. New York Bot. Gard. 84: 69, 1999 (Gradstein 1999). Bas.: *Lejeunea choachina* Gottsche, Ann. Sci. Nat. Bot. (sér. 5) 1: 156, 1864 (Gottsche 1864).
- *** *Cheilolejeunea clausa* (Nees et Mont.) R.M.Schust., Hepat. Anthocerotae N. Amer. 4: 863, 1980 (Schuster 1980c). Bas.: *Lejeunea clausa* Nees et Mont., Ann. Sci. Nat. Bot. (sér. 2) 14: 337, 1840 (Montagne 1840a).
- ** *Cheilolejeunea clavata* Mizut., J. Hattori Bot. Lab. 46: 361, 1979 (Mizutani 1979b).

- *** *Cheilolejeunea comans* (Spruce) R.M.Schust., *Phytologia* 45 (5): 431, 1980 (Schuster 1980b). Bas.: *Lejeunea comans* Spruce, *Trans. & Proc. Bot. Soc. Edinburgh* 15: 246, 1884 (Spruce 1884).
- ** *Cheilolejeunea convexa* (S.W.Arnell) S.W.Arnell, *Hepat. South Africa*: 209, 1963 (Arnell 1963b). Bas.: *Lejeunea convexa* S.W.Arnell, *Bot. Not.* 106: 272, 1953 (Arnell 1953b).
- ** *Cheilolejeunea cookiensis* (Steph.) R.M.Schust. et Kachroo, *J. Linn. Soc., Bot.* 56 (368): 509, 1961 (Kachroo and Schuster 1961). Bas.: *Pycnolejeunea cookiensis* Steph., *Sp. Hepat. (Stephani)* 5: 617, 1914 (Stephani 1914b).
- ** *Cheilolejeunea cordistipula* (Steph.) Grolle ex E.W.Jones, *J. Bryol.* 13 (3): 395, 1985 (Jones 1985). Bas.: *Strepsilejeunea cordistipula* Steph., *Sp. Hepat. (Stephani)* 5: 276, 1913 (Stephani 1913a).
- ** *Cheilolejeunea fischeri* Malombe, *Acta Bot. Hung.* 51 (3/4): 319, 2009 (Malombe 2009).
- ** *Cheilolejeunea gaoi* R.L.Zhu, M.L.So et Grolle, *Bryologist* 103 (3): 499, 2000 (Zhu et al. 2000).
- ** *Cheilolejeunea hallingii* B.M.Thiers, *Brittonia* 44 (2): 160, 1992 (Thiers 1992a).
- *** *Cheilolejeunea inflexa* (Hampe) Grolle, *J. Hattori Bot. Lab.* 45: 174, 1979 (Grolle 1979c). Bas.: *Lejeunea inflexa* Hampe, *Nov. Stirp. Pug.* 7: 22, 1838 (Lehmann 1838).
- *** *Cheilolejeunea intertexta* (Lindenb.) Steph., *Bull. Herb. Boissier* 5 (2): 79, 1897 (Stephani 1897b). Bas.: *Lejeunea intertexta* Lindenb., *Syn. Hepat.* 3: 379, 1845 (Gottsche et al. 1845b).
- *** *Cheilolejeunea krakammae* (Lindenb.) R.M.Schust., *Beih. Nova Hedwigia* 9: 112, 1963 (Schuster 1963a). Bas.: *Lejeunea krakammae* Lindenb., *Syn. Hepat.* 3: 353, 1845 (Gottsche et al. 1845b).
- *** *Cheilolejeunea laciniata* D.F.Peralta et M.E.Reiner, *Bryologist* 116 (1): 54, 2013 (Peralta and Reiner-Drehwald 2013).
- *** *Cheilolejeunea laevicalyx* (J.B.Jack et Steph.) Grolle, *J. Hattori Bot. Lab.* 65: 403, 1988 (Grolle 1988c). Bas.: *Strepsilejeunea laevicalyx* J.B.Jack et Steph., *Sp. Hepat. (Stephani)* 5: 283, 1913 (Stephani 1913a).
- ** *Cheilolejeunea laeviuscula* (Mitt.) Steph., *Sp. Hepat. (Stephani)* 5: 668, 1914 (Stephani 1914b). Bas.: *Lejeunea laeviuscula* Mitt., *J. Proc. Linn. Soc., Bot.* 5 (18): 114, 1860 [1861] (Mitten 1860c).
- *** *Cheilolejeunea lindenbergii* (Gottsche) Mizut., *J. Hattori Bot. Lab.* 33: 226, 1970 (Mizutani 1970). Bas.: *Lejeunea lindenbergii* Gottsche, *Syn. Hepat.* 3: 336, 1845 (Gottsche et al. 1845b).
- ** *Cheilolejeunea mimosa* (Hook.f. et Taylor) R.M.Schust., *J. Hattori Bot. Lab.* 26: 245, 1963 (Schuster 1963b). Bas.: *Jungermannia mimosa* Hook.f. et Taylor, *London J. Bot.* 3: 398, 1844 (Hooker and Taylor 1844a).
- ** *Cheilolejeunea nana* R.M.Schust., *Phytologia* 39 (6): 426, 1978 (Schuster 1978b).
- ** *Cheilolejeunea ngongensis* Malombe et Pócs, *Acta Bot. Hung.* 51 (3/4): 317, 2009 (Malombe 2009).
- ** *Cheilolejeunea nipponica* (S.Hatt.) S.Hatt., *Misc. Bryol. Lichenol.* 1 (14): 1, 1957 (Hattori 1957c). Bas.: *Strepsilejeunea nipponica* S.Hatt., *Bull. Tokyo Sci. Mus.* 11: 134, 1944 (Hattori 1944d).

- *** *Cheilolejeunea omphalogastris* Pócs, Trop. Bryol. 9: 131, 1994 (Pócs 1994b).
- *** *Cheilolejeunea oncophylla* (Ångstr.) Grolle et M.E.Reiner, J. Bryol. 19 (4): 781, 1997 (Grolle and Reiner-Drehwald 1997). Bas.: *Lejeunea oncophylla* Ångstr., Öfvers. Kongl. Vetensk.-Akad. Förh. 33 (7): 86, 1876 [1877] (Ångström 1876).
- ** *Cheilolejeunea ornata* C.J.Bastos, J. Bryol. 33 (1): 86, 2011 (Bastos 2011).
- ** *Cheilolejeunea osumiensis* (S.Hatt.) Mizut., Misc. Bryol. Lichenol. 8 (7): 148, 1980 (Mizutani 1980). Bas.: *Euosmolejeunea osumiensis* S.Hatt., Bull. Tokyo Sci. Mus. 11: 105, 1944 (Hattori 1944d).
- ** *Cheilolejeunea pluriplicata* (Pearson) R.M.Schust., Phytologia 45 (5): 430, 1980 (Schuster 1980b). Bas.: *Lejeunea pluriplicata* Pearson, Forh. Vidensk.-Selsk. Kristiania 1887 (9): 5, 1887 (Pearson 1887b).
- ** *Cheilolejeunea pocsii* E.W.Jones, J. Bryol. 15 (1): 156, 1988 (Jones 1988).
- ** *Cheilolejeunea polyantha* A.Evans, Mem. Torrey Bot. Club 8 (2): 141, 1902 (Evans 1902a).
- ** *Cheilolejeunea polyantha* var. *caduciloba* R.M.Schust., Hepat. Anthocerotae N. Amer. 4: 887, 1980 (Schuster 1980c).
- *** *Cheilolejeunea revoluta* (Herzog) Gradst. et Grolle, J. Hattori Bot. Lab. 74: 59, 1993 (Gradstein et al. 1993). Bas.: *Pycnolejeunea revoluta* Herzog, Feddes Repert. Spec. Nov. Regni Veg. 57 (1/2): 193, 1955 (Herzog 1955).
- *** *Cheilolejeunea rigidula* (Nees ex Mont.) R.M.Schust., Castanea 36 (2): 102, 1971 (Schuster 1971a). Bas.: *Lejeunea rigidula* Nees ex Mont., Ann. Sci. Nat. Bot. (sér. 2) 14: 336, 1840 (Montagne 1840a).
- ** *Cheilolejeunea ruwenzorensis* (S.W.Arnell) R.M.Schust., Beih. Nova Hedwigia 9: 112, 1963 (Schuster 1963a). Bas.: *Euosmolejeunea ruwenzorensis* S.W.Arnell, Ark. Bot. (n.ser.) 3 (16): 529, 1956 (Arnell 1956e).
- ** *Cheilolejeunea ryukyuensis* Mizut., J. Hattori Bot. Lab. 51: 162, 1982 (Mizutani 1982).
- ** *Cheilolejeunea subopaca* (Mitt.) Mizut., J. Hattori Bot. Lab. 26: 183, 1963 (Mizutani 1963). Bas.: *Lejeunea subopaca* Mitt., J. Proc. Linn. Soc., Bot. 5 (18): 116, 1860 [1861] (Mitten 1860c).
- *** *Cheilolejeunea trifaria* (Reinw., Blume et Nees) Mizut., J. Hattori Bot. Lab. 27: 132, 1964 (Mizutani 1964b). Bas.: *Jungermannia trifaria* Reinw., Blume et Nees, Nova Acta Phys.-Med. Acad. Caes. Leop.-Carol. Nat. Cur. 12 (1): 226, 1824 [1825] (Reinwardt et al. 1824a).
- * *Cheilolejeunea udarii* G.Asthana, S.C.Srivast. et A.K.Asthana, Lindbergia 20 (2/3): 142, 1995 [1996] (Asthana et al. 1995).²⁴⁵
- ** *Cheilolejeunea usambarana* (Steph.) Grolle, J. Hattori Bot. Lab. 46: 344, 1979 (Grolle 1979d). Bas.: *Strepsilejeunea usambarana* Steph., Akad. Wiss. Wien, Math.-Naturwiss. Kl., Denkschr. 88: 731, 1913 (Stephani 1913b).
- ** *Cheilolejeunea verrucosa* Steph., Sp. Hepat. (Stephani) 5: 673, 1914 (Stephani 1914b).

²⁴⁵ *Cheilolejeunea udarii* is possibly conspecific with *Cheilolejeunea krakakammae* (Zhu 2006a).

- ** **subg. *Renilejeunea* R.M.Schust.**, Beih. Nova Hedwigia 9: 112, 1963 (Schuster 1963a).
- *** *Cheilolejeunea montagnei* (Gottsche ex Mont.) R.M.Schust., Beih. Nova Hedwigia 9: 112, 1963 (Schuster 1963a). Bas.: *Lejeunea montagnei* Gottsche ex Mont., Ann. Sci. Nat. Bot. (sér. 2) 19: 261, 1843 (Montagne 1843).
- ** **subg. *Xenolejeunea* Kachroo et R.M.Schust.**, J. Linn. Soc., Bot. 56 (368): 496, 1961 (Kachroo and Schuster 1961).
- ** *Cheilolejeunea ceylanica* (Gottsche) R.M.Schust. et Kachroo, J. Linn. Soc., Bot. 56 (368): 509, 1961 (Kachroo and Schuster 1961). Bas.: *Lejeunea ceylanica* Gottsche, Syn. Hepat. 3: 359, 1845 (Gottsche et al. 1845b).
- ** *Cheilolejeunea eximia* (Jovet-Ast et Tixier) R.L.Zhu et M.L.So, Beih. Nova Hedwigia 121: 114, 2001 (Zhu and So 2001). Bas.: *Pycnolejeunea eximia* Jovet-Ast et Tixier, Rev. Bryol. Lichénol. 31 (1/2): 31, 1962 (Jovet-Ast and Tixier 1962).
- *** *Cheilolejeunea falsinervis* (Sande Lac.) R.M.Schust. et Kachroo, J. Linn. Soc., Bot. 56 (368): 509, 1961 (Kachroo and Schuster 1961). Bas.: *Lejeunea falsinervis* Sande Lac., Ned. Kruidk. Arch. 3: 421, 1854 [1855] (Sande Lacoste 1854).
- ** *Cheilolejeunea gardneri* (Mitt.) Mizut., J. Hattori Bot. Lab. 26: 181, 1963 (Mizutani 1963). Bas.: *Lejeunea gardneri* Mitt., J. Proc. Linn. Soc., Bot. 5 (18): 115, 1860 [1861] (Mitten 1860c).
- ** *Cheilolejeunea gigantea* (Steph.) R.M.Schust. et Kachroo, J. Linn. Soc., Bot. 56 (368): 509, 1961 (Kachroo and Schuster 1961). Bas.: *Pycnolejeunea gigantea* Steph., Hedwigia 35 (3): 125, 1896 (Stephani 1896b).
- ** *Cheilolejeunea huerlimannii* Tixier, Misc. Bryol. Lichenol. 9 (9): 184, 1983 (Tixier 1983b).
- ** *Cheilolejeunea hyalomarginata* R.L.Zhu et Frank Müll., Bryologist 115 (2): 218, 2012 (Zhu and Müller 2012).
- *** *Cheilolejeunea incisa* (Gottsche) R.M.Schust. et Kachroo, J. Linn. Soc., Bot. 56 (368): 509, 1961 (Kachroo and Schuster 1961). Bas.: *Lejeunea incisa* Gottsche, Syn. Hepat. 3: 360, 1845 (Gottsche et al. 1845b).
- ** *Cheilolejeunea incisa* var. *teretiflora* B.M.Thiers, J. Hattori Bot. Lab. 82: 321, 1997 (Thiers 1997a).
- ** *Cheilolejeunea longidens* (Steph.) R.M.Schust. et Kachroo, J. Linn. Soc., Bot. 56 (368): 509, 1961 (Kachroo and Schuster 1961). Bas.: *Pycnolejeunea longidens* Steph., Sp. Hepat. (Stephani) 5: 634, 1914 (Stephani 1914b).
- ** *Cheilolejeunea meyeniana* (Nees, Lindenb. et Gottsche) R.M.Schust. et Kachroo, J. Linn. Soc., Bot. 56 (368): 509, 1961 (Kachroo and Schuster 1961). Bas.: *Lejeunea meyeniana* Nees, Lindenb. et Gottsche, Observ. bot.: 472, 1843 (Gottsche et al. 1843).
- ** *Cheilolejeunea obtusilobula* (S.Hatt.) S.Hatt., Misc. Bryol. Lichenol. 1 (14): 2, 1957 (Hattori 1957c). Bas.: *Pycnolejeunea obtusilobula* S.Hatt., J. Hattori Bot. Lab. 3: 44, 1948 [1950] (Hattori 1948a).
- ** *Cheilolejeunea parvidens* B.M.Thiers, J. Hattori Bot. Lab. 82: 323, 1997 (Thiers 1997a).

- ** *Cheilolejeunea streimannii* Pócs et Ninh, Acta Bot. Hung. 47 (1/2): 162, 2005 (Pócs and Ninh 2005).
- *** *Cheilolejeunea trapezia* (Nees) Kachroo et R.M.Schust., J. Linn. Soc., Bot. 56 (368): 509, 1961 (Kachroo and Schuster 1961). Bas.: *Jungermannia trapezia* Nees, Enum. Pl. Crypt. Javae: 41, 1830 (Nees 1830).
- ** *Cheilolejeunea ventricosa* (Schiffn. ex P.Syd.) Xiao L.He, Acta Bot. Fenn. 163: 60, 1999 (He 1999). Bas.: *Pycnolejeunea ventricosa* Schiffn. ex P.Syd., Just's Bot. Jahresber. 19: 246, 1894 (Sydow 1894).
- *** *Cheilolejeunea vittata* (Steph. ex G.Hoffm.) R.M.Schust. et Kachroo, J. Linn. Soc., Bot. 56 (368): 509, 1961 (Kachroo and Schuster 1961). Bas.: *Pycnolejeunea vittata* Steph. ex G.Hoffm., Ann. Bryol. 8: 115, 1935 (Hoffman 1935).

Incertae sedis

- ** *Cheilolejeunea gottscheana* C.J.Bastos, J. Bryol. 34 (4): 316, 2012 (Bastos 2012b). *Nom. nov. pro Strepsilejeunea lindenbergii* Steph., Hedwigia 35 (3): 130, 1896 (Stephani 1896b).
- * *Cheilolejeunea heteroclada* (Spruce) Schiffn., Hepat. (Engl.-Prantl): 124, 1893 (Schiffner 1893b). Bas.: *Lejeunea heteroclada* Spruce, Trans. & Proc. Bot. Soc. Edinburgh 15: 256, 1884 (Spruce 1884).²⁴⁶
- ** *Cheilolejeunea minutilobula* Amakawa, J. Jap. Bot. 35 (12): 365, 1960 (Amakawa 1960a).
- ** *Cheilolejeunea norrisii* (Grolle) M.A.M.Renner, Bryologist 115 (4): 550, 2012 (Renner 2012). Bas.: *Lejeunea norrisii* Grolle, Wiss. Z. Friedrich-Schiller-Univ. Jena, Math.-Naturwiss. Reihe 31 (2): 215, 1982 (Grolle 1982).
- ** *Cheilolejeunea oscilla* M.A.M.Renner, Bryologist 115 (4): 551, 2012 (Renner 2012).
- ** *Cheilolejeunea papulosa* Schiffn., Hepat. (Engl.-Prantl): 124, 1893 (Schiffner 1893b). *Nom. nov. pro Lejeunea papulosa* Spruce, Trans. & Proc. Bot. Soc. Edinburgh 15: 258, 1884 (Spruce 1884), *nom. illeg.*
- *** *Cheilolejeunea riparia* (Steph.) M.E.Reiner, Nova Hedwigia 95 (3/4): 467, 2012 (Reiner-Drehwald and Grolle 2012). Bas.: *Potamolejeunea riparia* Steph., Sp. Hepat. (Stephani) 5: 639, 1914 (Stephani 1914b).
- *** *Cheilolejeunea rotalis* (Hook.f. et Taylor) M.Wigginton, J. Bryol. 34 (4): 270, 2012 (Wigginton 2012). Bas.: *Jungermannia rotalis* Hook.f. et Taylor, London J. Bot. 4: 89, 1845 (Hooker and Taylor 1845).
- ** *Cheilolejeunea tenerrima* (Steph.) C.J.Bastos, J. Bryol. 34 (4): 317, 2012 (Bastos 2012b). Bas.: *Strepsilejeunea tenerrima* Steph., Sp. Hepat. (Stephani) 5: 286, 1913 (Stephani 1913a).

²⁴⁶ *Cheilolejeunea heteroclada* was considered conspecific with *Cheilolejeunea aneogyna* by X.-L. He (in Gradstein and Costa 2003), but it was tentatively accepted by Reiner-Drehwald and Grolle (2012). *Lejeunea heteroclada* var. *subandina* Spruce may be a different taxon (cf. Reiner-Drehwald & Grolle 2012).

- ** *Cheilolejeunea urubuensis* (Zartman et I.L.Ackerman) R.L.Zhu et Y.M.Wei, *Phytotaxa* 152 (1): 50, 2013 (Wei et al. 2013). Bas.: *Vitalianthus urubuensis* Zartman et I.L.Ackerman, *Bryologist* 105 (2): 267, 2002 (Zartman and Ackerman 2002).
- * ***Cyrtolejeunea* A.Evans**, Bull. Torrey Bot. Club 30 (10): 553, 1903 (Evans 1903c).
- *** *Cyrtolejeunea holostipa* (Spruce) A.Evans, Bull. Torrey Bot. Club. 30 (10): 553, 1903 (Evans 1903c). Bas.: *Lejeunea holostipa* Spruce, Trans. & Proc. Bot. Soc. Edinburgh 15: 171 (Spruce 1884).
- ** ***Cystolejeunea* A.Evans**, Bull. Torrey Bot. Club 33 (1): 16, 1906 (Evans 1906a)
- *** *Cystolejeunea lineata* (Lehm. et Lindenb.) A.Evans, Bull. Torrey Bot. Club. 33 (1): 17, 1906 (Evans 1906a). Bas.: *Jungermannia lineata* Lehm. et Lindenb., Nov. Stirp. Pug. 4: 53, 1832 (Lehmann 1832).
- * ***Omphalanthus* Lindenb. et Nees**, Syn. Hepat. 2: 303, 1845 (Gottsche et al. 1845a).²⁴⁷
- ** *Omphalanthus baracoensis* Mustelier, M.E.Reiner et Gradst., J. Bryol. 29 (2): 95, 2007 (Reiner-Drehwald et al. 2007).
- *** *Omphalanthus filiformis* (Sw.) Nees, Syn. Hepat. 2: 304, 1845 (Gottsche et al. 1845a). Bas.: *Jungermannia filiformis* Sw., Prodr. (Swartz): 144, 1788 (Swartz 1788).
- ** *Omphalanthus filiformis* var. *platycoleus* (Herzog) Gradst., *Phytotaxa* 76 (3): 46, 2013 (Gradstein 2013a). Bas.: *Omphalanthus platycoleus* Herzog, Feddes Repert. Spec. Nov. Regni Veg. 57 (1/2): 171, 1955 (Herzog 1955).
- ** *Omphalanthus filiformis* var. *wallisii* (Prantl) Gradst., *Phytotaxa* 76 (3): 46, 2013 (Gradstein 2013a). Bas.: *Lejeunea wallisii* Prantl, *Hedwigia* 31: xvii, 1892 (Prantl 1892).
- ** *Omphalanthus huanucensis* (Gottsche) Gradst., *Beih. Nova Hedwigia* 80: 109, 1985 (Gradstein and Buskes 1985). Bas.: *Lejeunea huanucensis* Gottsche, Syn. Hepat. 3: 335, 1845 (Gottsche et al. 1845b).
- *** *Omphalanthus jackii* (Prantl) Gradst., Proc. Kon. Ned. Akad. Wetensch. C 80: 410, 1977 (Gradstein et al. 1977). Bas.: *Lejeunea jackii* Prantl, *Hedwigia* 31: xvii, 1892 (Prantl 1892).
- *** *Omphalanthus ovalis* (Lindenb. et Gottsche) Gradst., Proc. Kon. Ned. Akad. Wetensch. C 80: 411, 1977 (Gradstein et al. 1977). Bas.: *Lejeunea ovalis* Lindenb. et Gottsche, Syn. Hepat. 5: 754, 1847 (Gottsche et al. 1847).
- *** *Omphalanthus roccatii* (Gola) R.M.Schust., *Beih. Nova Hedwigia* 9: 96, 1963 (Schuster 1963a). Bas.: *Acrolejeunea roccatii* Gola, *Ann. Bot. (Rome)* 6 (2): 275, 1907 (Gola 1907).

²⁴⁷ *Omphalanthus* is nested in *Cheilolejeunea* (Wilson et al. 2007, Ye et al. 2011, Gradstein 2013a). A formal transfer of the genus and its species to *Cheilolejeunea* is found in Ye et al. (2015).

*** subtrib. *Cololejeuneinae* Gradst.

- ** *Aphanotropis* Herzog, Trans. Brit. Bryol. Soc. 2 (1): 63, 1952 (Herzog 1952b).
 *** *Aphanotropis saxicola* Herzog, Trans. Brit. Bryol. Soc. 2 (1): 63, 1952 (Herzog 1952b).
- ** *Calatholejeunea* K.I.Goebel, Ann. Jard. Bot. Buitenzorg 39: 8, 1928 (Goebel 1928).
 *** *Calatholejeunea lamii* Mizut., J. Hattori Bot. Lab. 56: 334, 1984 (Mizutani 1984a).
 *** *Calatholejeunea paradoxa* (Schiffn.) K.I.Goebel, Ann. Jard. Bot. Buitenzorg 39: 8, 1928 (Goebel 1928). Bas.: *Lejeunea paradoxa* Schiffn., Nova Acta Acad. Caes. Leop.-Carol. German. Nat. Cur. 60 (2): 243, 1893 (Schiffner 1893a).
- *** *Cololejeunea* (Spruce) Steph., Hedwigia 30 (5): 208, 1891 (Stephani 1891a). Bas.: *Lejeunea* subg. *Cololejeunea* Spruce, Trans. & Proc. Bot. Soc. Edinburgh 15: 291, 1884 (Spruce 1884).²⁴⁸
 ** *Cololejeunea micrandroecia* (Spruce) M.Menzel, Willdenowia 14: 492, 1984 [1985] (Menzel 1984). Bas.: *Lejeunea micrandroecia* Spruce, Trans. & Proc. Bot. Soc. Edinburgh 15: 298, 1884 (Spruce 1884).
- * **subg. *Aphanolejeunea* (A.Evans) Pócs**, Phytotaxa 202 (1): 64, 2015 (Pócs et al. 2015c). Bas.: *Aphanolejeunea* A.Evans, Bull. Torrey Bot. Club 38 (6): 272, 1911 (Evans 1911).
- *** *Cololejeunea berneckerae* Pócs, Polish Bot. J. 54 (1): 4, 2009 (Pócs and Bernecker 2009). *Nom. nov. pro Aphanolejeunea pocsii* Bern.-Lück., Nova Hedwigia 66 (1/2): 168, 1998 (Bernecker-Lücking 1998).
 *** *Cololejeunea cingens* (Herzog) Bernecker et Pócs, Polish Bot. J. 54 (1): 4, 2009 (Pócs and Bernecker 2009). Bas.: *Aphanolejeunea cingens* Herzog, Svensk Bot. Tidskr. 46 (1): 104, 1952 (Herzog 1952e).
 *** *Cololejeunea cornutissima* (R.M.Schust.) Stotler et Crand.-Stotl., Bryologist 80 (3): 411, 1977 (Stotler and Crandall-Stotler 1977). Bas.: *Aphanolejeunea cornutissima* R.M.Schust., Bryologist 59 (3): 217, 1956 (Schuster 1956c).
 *** *Cololejeunea costaricensis* (Bern.-Lück.) Bernecker et Pócs, Polish Bot. J. 54 (1): 5, 2009 (Pócs and Bernecker 2009). Bas.: *Aphanolejeunea costaricensis* Bern.-Lück., Nova Hedwigia 66 (1/2): 164, 1998 (Bernecker-Lücking 1998).
 *** *Cololejeunea cubensis* Pócs, Polish Bot. J. 54 (1): 5, 2009 (Pócs and Bernecker 2009). *Nom. nov. pro Aphanolejeunea evansii* Herzog, Beih. Bot. Centralbl. 61B (3): 583, 1942 (Herzog 1942d).

²⁴⁸ *Cololejeunea* is here organized into subgenera that are not supported by the molecular study of Yu et al. (2013). They are referred to following the traditional use (e.g. as in Pócs et al. 2014). *Leptocolea* and *Physocolea* also belong here, but a few taxa have neither been transferred nor synonymized. They are listed in the “Names in genera not currently accepted” section below.

- *** *Cololejeunea gracilis* (Jovet-Ast) Pócs, *Cryptog. Bryol.* 29 (3): 233, 2008 (Dauphin et al. 2008). Bas.: *Aphanolejeunea gracilis* Jovet-Ast, *Rev. Bryol. Lichénol.* 16 (1/2): 21, 1947 [1948] (Jovet-Ast 1947b).
- ** *Cololejeunea gracilis* var. *linearifolia* (R.M.Schust.) Pócs, *Acta Bot. Hung.* 56 (1/2): 189, 2014 (Pócs et al. 2014). Bas.: *Aphanolejeunea gracilis* var. *linearifolia* R.M.Schust., *Phytologia* 45 (5): 434, 1980 (Schuster 1980b).
- *** *Cololejeunea grossepapillosa* (Horik.) N.Kitag., *Hikobia*, *Suppl.* 1: 68, 1981 (Kitagawa 1981a). Bas.: *Aphanolejeunea grossepapillosa* Horik., *J. Sci. Hiroshima Univ., Ser. B, Div. 2, Bot.* 1: 92, 1932 (Horikawa 1932a).
- ** *Cololejeunea iwatsukiana* (Pócs) Pócs, *Polish Bot. J.* 54 (1): 6, 2009 (Pócs and Bernecker 2009). Bas.: *Aphanolejeunea iwatsukiana* Pócs, *Hikobia* 11: 457, 1994 (Pócs 1994d).
- *** *Cololejeunea jovetastiana* (Pócs) Pócs, *Polish Bot. J.* 54 (1): 6, 2009 (Pócs and Bernecker 2009). Bas.: *Aphanolejeunea jovetastiana* Pócs, *Cryptog. Bryol. Lichénol.* 5 (3): 251, 1984 (Pócs 1984a).
- ** *Cololejeunea lisowskii* (Pócs) Pócs, *Polish Bot. J.* 54 (1): 6, 2009 (Pócs and Bernecker 2009). Bas.: *Aphanolejeunea lisowskii* Pócs, *Cryptog. Bryol. Lichénol.* 5 (3): 259, 1984 (Pócs 1984a).
- *** *Cololejeunea madeirensis* Schiffn., *Hedwigia* 41 (5): 279, 1902 (Schiffner 1902).
- *** *Cololejeunea microscopica* (Taylor) Schiffn., *Hepat. (Engl.-Prantl)*: 122, 1893 (Schiffner 1893b). Bas.: *Jungermannia microscopica* Taylor, *Mackay, Fl. Hibern.* 2: 59, 1836 (Taylor 1836a).
- *** *Cololejeunea microscopica* var. *africana* (Pócs) Pócs et Bernecker, *Cryptog. Bryol.* 29 (3): 234, 2008 (Dauphin et al. 2008). Bas.: *Aphanolejeunea exigua* var. *africana* Pócs, *Cryptog. Bryol. Lichénol.* 5 (3): 247, 1984 (Pócs 1984a).
- *** *Cololejeunea microscopica* var. *exigua* (A.Evans) Pócs, *Mem. New York Bot. Gard.* 76 (4): 73, 2009 (Gradstein and Ilkiu-Borges 2009). Bas.: *Aphanolejeunea exigua* A.Evans, *Bull. Torrey Bot. Club* 38 (6): 273, 1911 (Evans 1911).
- *** *Cololejeunea minuscula* Pócs, *Polish Bot. J.* 54 (1): 7, 2009 (Pócs and Bernecker 2009). *Nom. nov. pro Aphanolejeunea minuta* R.M.Schust., *Hepat. Anthocerotae N. Amer.* 4: 1310, 1980 (Schuster 1980c).
- ** *Cololejeunea moramangae* Tixier, *Bull. Acad. Malgache (n.ser)* 55 (1/2): 241, 1977 [1979] (Tixier 1977a).
- *** *Cololejeunea norrisii* (Pócs) Pócs, *Polish Bot. J.* 54 (1): 7, 2009 (Pócs and Bernecker 2009). Bas.: *Aphanolejeunea norrisii* Pócs, *Acta Bot. Fenn.* 165: 95, 1999 (Pócs and Piippo 1999).
- *** *Cololejeunea papillosa* (K.I.Goebel) Mizut., *J. Hattori Bot. Lab.* 29: 156, 1966 (Mizutani 1966). Bas.: *Physocolea papillosa* K.I.Goebel, *Ann. Jard. Bot. Buitenzorg* 39: 41, 1928 (Goebel 1928).
- *** *Cololejeunea sicifolia* (Gottsche ex A.Evans) Pócs et Bernecker, *Polish Bot. J.* 54 (1): 8, 2009 (Pócs and Bernecker 2009). Bas.: *Aphanolejeunea sicifolia* Gottsche ex A.Evans, *Bull. Torrey Bot. Club* 38 (6): 277, 1911 (Evans 1911).

- *** *Cololejeunea sicifolia* subsp. *jamaicensis* (R.M.Schust.) Bernecker et Pócs, Polish Bot. J. 54 (1): 8, 2009 (Pócs and Bernecker 2009). Bas.: *Aphanolejeunea jamaicensis* R.M.Schust., Phytologia 45 (5): 434, 1980 (Schuster 1980b).
- *** *Cololejeunea sintenisii* (Steph.) Pócs, Cryptog. Bryol. 29 (3): 235, 2008 (Dauphin et al. 2008). Bas.: *Aphanolejeunea sintenisii* Steph., Sp. Hepat. (Stephani) 5: 861, 1916 (Stephani 1916b).
- *** *Cololejeunea subsphaeroidea* (R.M.Schust.) Pócs, Cryptog. Bryol. 29 (3): 235, 2008 (Dauphin et al. 2008). Bas.: *Aphanolejeunea subsphaeroidea* R.M.Schust., Phytologia 39 (6): 431, 1978 (Schuster 1978b).
- ** *Cololejeunea thiersiae* (Pócs) Pócs, Polish Bot. J. 54 (1): 9, 2009 (Pócs and Bernecker 2009). Bas.: *Aphanolejeunea thiersiae* Pócs, Hikobia 11: 459, 1994 (Pócs 1994d).
- ** *Cololejeunea veillonii* Tixier, Nova Hedwigia 31: 757, 1979 (Tixier 1979b).
- *** *Cololejeunea winkleri* (M.I.Morales et A.Lücking) Pócs, Mem. New York Bot. Gard. 76 (4): 78, 2009 (Gradstein and Ilkiu-Borges 2009). Bas.: *Aphanolejeunea winkleri* M.I.Morales et A.Lücking, Nova Hedwigia 60 (1/2): 120, 1995 (Morales and Lücking 1995).
- * **subg. *Austrocololejeunea* Tixier**, Nova Hedwigia 31: 776, 1979 (Tixier 1979b).
- ** *Cololejeunea australis* Tixier, Nova Hedwigia 31: 781, 1979 (Tixier 1979b).
- ** *Cololejeunea caledonica* Gottsche, Hedwigia 34 (5): 246, 1895 (Stephani 1895b).
- ** *Cololejeunea sophiana* Tixier, Bot. Not. 128: 428, 1975 [1976] (Tixier 1975a).
- ** *Cololejeunea virotana* Tixier, Nova Hedwigia 31: 777, 1979 (Tixier 1979b).
- * **subg. *Chlorocolea* R.M.Schust.**, Beih. Nova Hedwigia 9: 178, 1963 (Schuster 1963a).
- *** *Cololejeunea ceratilobula* (P.C.Chen) R.M.Schust., Beih. Nova Hedwigia 9: 179, 1963 (Schuster 1963a). Bas.: *Leptocolea ceratilobula* P.C.Chen, Feddes Repert. Spec. Nov. Regni Veg. 58: 49, 1955 (Chen 1955).
- *** *Cololejeunea desciscens* Steph., Hedwigia 34 (5): 248, 1895 (Stephani 1895b).
- *** *Cololejeunea linopteroides* H.Rob., Bryologist 67 (4): 457, 1964 (Robinson 1964).
- * *Cololejeunea rotundilobula* (P.C.Wu et P.J.Lin) Piippo, J. Hattori Bot. Lab. 68: 134, 1990 (Piippo 1990). Bas.: *Pedinolejeunea rotundilobula* P.C.Wu et P.J.Lin, Acta Phytotax. Sin. 16 (2): 69, 1978 (Wu and Lin 1978).²⁴⁹
- *** *Cololejeunea sigmoidea* Jovet-Ast et Tixier, Rev. Bryol. Lichénol. 31 (1/2): 27, 1962 (Jovet-Ast and Tixier 1962).
- ** *Cololejeunea sigmoidea* var. *dubia* Tixier, Bryophyt. Biblioth. 27: 114, 1985 (Tixier 1985a).
- *** *Cololejeunea standleyi* Herzog, Rev. Bryol. Lichénol. 20 (1/2): 172, 1951 [1952] (Herzog 1951a).

²⁴⁹ *Cololejeunea rotundilobula* is possibly conspecific with *Cololejeunea sigmoidea* (Pócs et al. 2013).

- *** *Cololejeunea stylilobula* Tixier, *Phytotaxa* 202 (1): 65, 2015 (Pócs et al. 2015c). Based on: *Cololejeunea stylilobula* Tixier, *Bryophyt. Biblioth.* 27: 119, 1985 (Tixier 1985a), *nom. inval.*
- *** *Cololejeunea zangii* R.L.Zhu et M.L.So, *Syst. Bot.* 24 (4): 501, 1999 [2000] (Zhu and So 1999b).
- *** **subg. *Chlorolejeunea* Benedix**, Feddes *Repert. Spec. Nov. Regni Veg. Beih.* 134: 81, 1953 (Benedix 1953).²⁵⁰
- ** *Cololejeunea lacinulata* Benedix, Feddes *Repert. Spec. Nov. Regni Veg. Beih.* 134: 82, 1953 (Benedix 1953).
- *** *Cololejeunea madothecoides* (Steph.) Benedix, Feddes *Repert. Spec. Nov. Regni Veg. Beih.* 134: 81, 1953 (Benedix 1953). Bas.: *Physocolea madothecoides* Steph., *Sp. Hepat. (Stephani)* 5: 898, 1916 (Stephani 1916b).
- ** *Cololejeunea ombrophila* Tixier, *Nat. Hist. Bull. Siam Soc.* 23 (4): 550, 1970 (Tixier 1970a).
- *** *Cololejeunea stotleriana* Gradst., Ilk.-Borg. et Vanderp., *Bryologist* 114 (1): 13, 2011 (Gradstein et al. 2011).
- *** **subg. *Chondriolejeunea* Benedix**, Feddes *Repert. Spec. Nov. Regni Veg. Beih.* 134: 75, 1953 (Benedix 1953).²⁵¹
- *** *Cololejeunea chinii* Tixier, *Nat. Hist. Bull. Siam Soc.* 24 (3/4): 445, 1973 (Tixier 1973b).
- *** *Cololejeunea pseudostipulata* Schiffn. ex P.Syd., *Just's Bot. Jahresber.* 19: 246, 1894 (Sydow 1894). Based on: *Cololejeunea pseudostipulata* Schiffn., *Leberm., Forschungsgr. Gazelle* 4 (4): 33, 1890 (Schiffner 1890), *nom. inval.*
- *** *Cololejeunea shimizui* N.Kitag., *Acta Phytotax. Geobot.* 23 (5/6): 185, 1969 (Kitagawa 1969b).
- *** *Cololejeunea shimizui* var. *phangngana* N.Kitag., *Acta Phytotax. Geobot.* 23 (5/6): 187, 1969 (Kitagawa 1969b).
- *** **subg. *Cololejeunea***,²⁵²
- ** *Cololejeunea albodentata* P.C.Chen et P.C.Wu, *Acta Phytotax. Sin.* 9 (3): 252, 1964 (Chen and Wu 1964).
- ** *Cololejeunea armata* Tixier, *Gard. Bull. Singapore* 26 (1): 149, 1972 (Tixier 1972b).
- *** *Cololejeunea bhutanica* Grolle et Mizut., *J. Bryol.* 15 (2): 281, 1989 (Grolle 1989e).

250 *Cololejeunea* subg. *Chlorolejeunea* forms a separate clade in Yu et al. (2013) with three sequenced species (*Cololejeunea ceratilobula*, *Cololejeunea madothecoides* (the type) and *Cololejeunea raduliloba*).

251 *Cololejeunea* subg. *Chondriolejeunea* is supported by Yu et al. (2013) who included *Cololejeunea chinii*, *Cololejeunea pseudostipulata* (the type, not sequenced) and *Cololejeunea shimizui*.

252 Subg. *Cololejeunea* includes subg. *Aphanolejeunea* in the phylogeny by Yu et al. (2013).

- ** *Cololejeunea biddlecomiae* (Austin) A.Evans, Mem. Torrey Bot. Club 8 (2): 168, 1902 (Evans 1902a). Bas.: *Lejeunea biddlecomiae* Austin, List. Canad. Hepat.: 5, 1890 (Pearson 1890).
- * *Cololejeunea caihuaella* But et P.C.Wu, Hepat. Fl. Hong Kong: 132, 2009 (Wu and But 2009).
- *** *Cololejeunea calcarea* (Lib.) Steph., Bot. Gaz. 17 (6): 171, 1892 (Stephani 1892f). Bas.: *Lejeunea calcarea* Lib., Ann. Gen. Sci. Phys. 6: 373, 1820 (Libert 1820).
- ** *Cololejeunea capuronii* Tixier, Bull. Acad. Malgache (n.ser) 55 (1/2): 241, 1977 [1979] (Tixier 1977a).
- ** *Cololejeunea dinghuiana* R.L.Zhu et Y.F.Wang, J. E. China Norm. Univ., Nat. Sci. Ed. 2: 91, 1992 (Zhu and Wang 1992).
- ** *Cololejeunea dolichodonta* Tixier, Bryophyt. Biblioth. 27: 215, 1985 (Tixier 1985a).
- *** *Cololejeunea dozyana* (Sande Lac.) Schiffn., Hedwigia 39 (4): 199, 1900 (Schiffner 1900b). Bas.: *Lejeunea dozyana* Sande Lac., Ned. Kruidk. Arch. 3: 522, 1855 (Sande Lacoste 1855).
- *** *Cololejeunea elegans* Steph., Hedwigia 30 (5): 208, 1891 (Stephani 1891a).
- ** *Cololejeunea falcidentata* R.M.Schust., Nova Hedwigia 15: 507, 1968 (Schuster 1968b).
- ** *Cololejeunea filidens* Benedix, Feddes Repert. Spec. Nov. Regni Veg. Beih. 134: 49, 1953 (Benedix 1953).
- * *Cololejeunea frahmii* Tixier, Trop. Bryol. 11: 63, 1995 (Tixier 1995b).²⁵³
- *** *Cololejeunea grolleana* Pócs, J. Hattori Bot. Lab. 48: 312, 1980 (Pócs 1980b).
- *** *Cololejeunea haskarliana* (Lehm.) Schiffn., Consp. Hepat. Arch. Ind.: 244, 1898 (Schiffner 1898b). Bas.: *Lejeunea haskarliana* Lehm., Nov. Stirp. Pug. 8: 26, 1844 (Lehmann 1844).
- *** *Cololejeunea hyalina* G.Asthana et S.C.Srivast., Bryophyt. Biblioth. 60: 25, 2003 (Asthana and Srivastava 2003).
- * *Cololejeunea kabuziensis* Tixier, Trop. Bryol. 11: 63, 1995 (Tixier 1995b).²⁵⁴
- *** *Cololejeunea karnatakensis* G.Asthana et S.C.Srivast., Bryophyt. Biblioth. 60: 26, 2003 (Asthana and Srivastava 2003).
- ** *Cololejeunea kodamae* Kamim., Feddes Repert. Spec. Nov. Regni Veg. 58: 55, 1955 (Kamimura 1955).
- *** *Cololejeunea kolombangarae* Pócs, Acta Bryolichenol. Asiat. 4: 67, 2011 (Pócs and Piippo 2011).
- ** *Cololejeunea kolombangarae* subsp. *sepikensis* Pócs, Acta Bryolichenol. Asiat. 4: 68, 2011 (Pócs and Piippo 2011).
- *** *Cololejeunea konrattii* Pócs, Acta Bot. Hung. 54 (1/2): 156, 2012 (Pócs 2012b).
- *** *Cololejeunea kuciana* Pócs et Schäf.-Verw., Polish Bot. J. 57 (1): 51, 2012 (Pócs and Schäfer-Verwimp 2012).
- *** *Cololejeunea longiana* Grolle et Mizut., J. Bryol. 15 (2): 284, 1989 (Grolle 1989e).

253 *Cololejeunea frahmii* is probably only a depauperate form of *Cololejeunea elegans* or *Cololejeunea zenkeri*.

254 *Cololejeunea kabuziensis* is probably only a depauperate form of *Cololejeunea elegans* or *Cololejeunea zenkeri*.

- *** *Cololejeunea macounii* (Spruce) A.Evans, Mem. Torrey Bot. Club 8 (2): 171, 1902 (Evans 1902a). Bas.: *Lejeunea macounii* Spruce, Bull. Torrey Bot. Club 17 (10): 259, 1890 (Underwood 1890).
- ** *Cololejeunea magillii* Pócs, J. Hattori Bot. Lab. 74: 49, 1993 (Pócs 1993).
- *** *Cololejeunea malanjae* Steph., Bot. Jahrb. Syst. 30 (2): 261, 1901 (Stephani 1901g).
- ** *Cololejeunea mamillata* (Ångstr.) E.A.Hodgs., Trans. Roy. Soc. New Zealand, Bot. 3 (11): 184, 1967 (Hodgson 1967). Bas.: *Lejeunea mamillata* Ångstr., Öfvers. Kongl. Vetensk.-Akad. Förh. 29 (4): 14, 1872 (Ångström 1872).
- ** *Cololejeunea mizutaniana* Udar et G.Srivast., Misc. Bryol. Lichenol. 9 (7): 138, 1983 (Udar and Srivastava 1983).
- *** *Cololejeunea mocambiquensis* S.W.Arnell, Mitt. Thüring. Bot. Ges. 1 (1): 7, 1955 [1956] (Arnell 1955a).
- ** *Cololejeunea nanbutashanensis* J.D.Yang et S.H.Lin, Phytotaxa 177 (1): 56, 2014 (Yang and Lin 2014).
- *** *Cololejeunea nilgiriensis* G.Asthana et S.C.Srivast., Bryophyt. Biblioth. 60: 27, 2003 (Asthana and Srivastava 2003).
- *** *Cololejeunea ornata* A.Evans, Bryologist 41 (4): 73, 1938 (Evans 1938c).
- ** *Cololejeunea parva* Vanden Berghen, Bull. Jard. Bot. Natl. Belg. 47 (1/2): 239, 1977 (Vanden Berghen 1977).
- *** *Cololejeunea planiflora* Benedix, Feddes Repert. Spec. Nov. Regni Veg. Beih. 134: 60, 1953 (Benedix 1953).
- *** *Cololejeunea platyneura* (Spruce) A.Evans, Mem. Torrey Bot. Club 8 (2): 172, 1902 (Evans 1902a). Bas.: *Lejeunea platyneura* Spruce, Trans. & Proc. Bot. Soc. Edinburgh 15: 299, 1884 (Spruce 1884).
- *** *Cololejeunea pluridentata* P.C.Wu et J.S.Lou, Acta Phytotax. Sin. 16 (4): 105, 1978 (Wu and Lou 1978).
- ** *Cololejeunea pretiosa* Benedix, Feddes Repert. Spec. Nov. Regni Veg. Beih. 134: 62, 1953 (Benedix 1953).
- *** *Cololejeunea pseudocristallina* P.C.Chen et P.C.Wu, Acta Phytotax. Sin. 9 (3): 257, 1964 (Chen and Wu 1964).
- ** *Cololejeunea pseudoplagiophylla* P.C.Wu et J.S.Lou, Acta Phytotax. Sin. 16 (4): 106, 1978 (Wu and Lou 1978).
- ** *Cololejeunea pseudoschmidtii* Tixier, Gard. Bull. Singapore 26 (1): 145, 1972 (Tixier 1972b).
- ** *Cololejeunea ramromensis* Pócs, Biodiv., biogeogr., nat. conserv. Wallacea N. Guinea II: 113, 2014 (Chantanaorrapint and Pócs 2014).
- *** *Cololejeunea rosellata* Mizut., J. Hattori Bot. Lab. 29: 159, 1966 (Mizutani 1966).
- *** *Cololejeunea rossettiana* (C.Massal.) Schiffn., Hepat. (Engl.-Prantl): 122, 1893 (Schiffner 1893b). Bas.: *Lejeunea rossettiana* C.Massal., Nuovo Giorn. Bot. Ital. 21 (3): 487, 1889 (Massalongo 1889).
- *** *Cololejeunea runssorensis* (Steph.) Pócs, Acta Bot. Acad. Sci. Hung. 21 (3/4): 371, 1975 (Pócs 1975). Bas.: *Aphanolejeunea runssorensis* Steph., Sp. Hepat. (Stephani) 5: 858, 1916 (Stephani 1916b).

- ** *Cololejeunea schaeferi* Grolle, J. Bryol. 13 (4): 488, 1986 (Grolle 1986b).
- *** *Cololejeunea schmidtii* Steph., Bot. Tidsskr. 24 (3): 278, 1902 (Stephani 1902b).
- ** *Cololejeunea schmidtii* var. *acutepapillosa* Pócs, Acta Bot. Hung. 54 (1/2): 165, 2012 (Pócs 2012b).
- ** *Cololejeunea selaginellicola* Tixier, Gard. Bull. Singapore 26 (1): 149, 1972 (Tixier 1972b).
- *** *Cololejeunea serrata* (Steph.) Benedix, Feddes Repert. Spec. Nov. Regni Veg. Beih. 134: 53, 1953 (Benedix 1953). Bas.: *Physocolea serrata* Steph., Sp. Hepat. (Stephani) 5: 905, 1916 (Stephani 1916b).
- ** *Cololejeunea shikokiana* (Horik.) S.Hatt., Bull. Tokyo Sci. Mus. 11: 101, 1944 (Hattori 1944d). Bas.: *Physocolea shikokiana* Horik., Bot. Mag. (Tokyo) 46 (544): 182, 1932 (Horikawa 1932b).
- ** *Cololejeunea spinosa* (Horik.) Pandé et R.N.Misra, J. Indian Bot. Soc. 22 (2/4): 166, 1943 (Pandé and Misra 1943). Bas.: *Physocolea spinosa* Horik., J. Sci. Hiroshima Univ., Ser. B, Div. 2, Bot. 1: 70, 1931 (Horikawa 1931a).
- *** *Cololejeunea stellaris* Pócs, Acta Bryolichenol. Asiat. 4: 70, 2011 (Pócs and Piippo 2011).
- ** *Cololejeunea subkodamae* Mizut., J. Hattori Bot. Lab. 60: 448, 1986 (Mizutani 1986a).
- ** *Cololejeunea tamasii* Schäf.-Verw., Phytotaxa 60: 9, 2012 (Schäfer-Verwimp 2012).
- ** *Cololejeunea tanneri* Pócs, Acta Bot. Hung. 31 (1/4): 126, 1985 (Pócs 1985).
- *** *Cololejeunea tenella* Benedix, Feddes Repert. Spec. Nov. Regni Veg. Beih. 134: 55, 1953 (Benedix 1953).
- ** *Cololejeunea tenella* var. *dentiloba* Onr., Bull. Jard. Bot. Natl. Belg. 59 (3/4): 436, 1989 (Onraedt 1989).
- ** *Cololejeunea thiersiana* Tixier, Cryptog. Bryol. Lichénol. 16 (3): 229, 1995 (Tixier 1995a). Based on: *Cololejeunea thiersiana* Tixier, Candollea 46 (2): 291, 1991 (Tixier 1991), *nom. inval.*
- ** *Cololejeunea tuiwawana* Pócs, Acta Bot. Hung. 54 (1/2): 165, 2012 (Pócs 2012b).
- *** *Cololejeunea verrucosa* Steph., Hedwigia 34 (5): 253, 1895 (Stephani 1895b).
- ** *Cololejeunea verrucosa* var. *rectispina* (Herzog) Benedix, Feddes Repert. Spec. Nov. Regni Veg. Beih. 134: 55, 1953 (Benedix 1953). Bas.: *Physocolea verrucosa* var. *rectispina* Herzog, Mitt. Inst. Allg. Bot. Hamburg 7 (3): 214, 1931 (Herzog 1931a).
- *** *Cololejeunea zenkeri* (Steph.) E.W.Jones, Trans. Brit. Bryol. Soc. 2 (3): 420, 1954 (Jones 1954c). Bas.: *Aphanolejeunea zenkeri* Steph., Sp. Hepat. (Stephani) 5: 858, 1916 (Stephani 1916b).
- * **subg. *Cryptolejeunea* Benedix**, Feddes Repert. Spec. Nov. Regni Veg. Beih. 134: 77, 1953 (Benedix 1953).
- *** *Cololejeunea angustiflora* (Steph.) Mizut., J. Hattori Bot. Lab. 28: 113, 1965 (Mizutani 1965). Bas.: *Leptocolea angustiflora* Steph., Sp. Hepat. (Stephani) 5: 848, 1916 (Stephani 1916b).

- ** *Cololejeunea drepanolejeuneoides* (Horik.) R.M.Schust., Beih. Nova Hedwigia 9: 174, 1963 (Schuster 1963a). Bas.: *Boninoleptocolea drepanolejeuneoides* Horik., Bot. Mag. (Tokyo) 50 (598): 558, 1936 (Horikawa 1936).²⁵⁵
- ** *Cololejeunea hattoriana* Mizut. et Pócs, Ann. Bot. Fenn. 31 (3): 188, 1994 (Pócs et al. 1994). *Nom. nov. pro Campylojeunea pusilla* Mizut., J. Hattori Bot. Lab. 29: 154, 1966 (Mizutani 1966).
- *** *Cololejeunea inflectens* (Mitt.) Benedix, Feddes Repert. Spec. Nov. Regni Veg. Beih. 134: 79, 1953 (Benedix 1953). Bas.: *Lejeunea inflectens* Mitt., J. Proc. Linn. Soc., Bot. 5 (18): 117, 1860 [1861] (Mitten 1860c).
- ** *Cololejeunea mouensis* (Tixier) H.A.Mill., Phytologia 47 (4): 322, 1981 (Miller 1981). Bas.: *Campylojeunea mouensis* Tixier, Nova Hedwigia 31: 727, 1979 (Tixier 1979b).
- *** *Cololejeunea vesicaria* (Sande Lac.) Schiffn., Consp. Hepat. Arch. Ind.: 247, 1898 (Schiffner 1898b). Bas.: *Lejeunea vesicaria* Sande Lac., Syn. hepat. jav.: 74, 1856 [1857] (Sande Lacoste 1856b).
- * **subg. *Diaphanae* R.M.Schust.**, J. Elisha Mitchell Sci. Soc. 72 (1): 103, 1956 (Schuster 1956b).
- *** *Cololejeunea amphibola* B.M.Thiers, Beih. Nova Hedwigia 90: 130, 1988 (Thiers 1988).
- ** *Cololejeunea antillana* Pócs, Polish Bot. J. 54 (1): 3, 2009 (Pócs and Bernecker 2009). *Nom. nov. pro Aphanolejeunea longifolia* Jovet-Ast, Rev. Bryol. Lichénol. 16 (1/2): 23, 1947 [1948] (Jovet-Ast 1947b).
- * *Cololejeunea augieri* Tixier, Trop. Bryol. 11: 48, 1995 (Tixier 1995b).
- *** *Cololejeunea azorica* V.Allorge et Jovet-Ast, Mitt. Thüring. Bot. Ges. 1 (2/3): 17, 1955 (Allorge and Jovet-Ast 1955).
- *** *Cololejeunea camillii* (Lehm.) A.Evans, Bryologist 15 (4): 59, 1912 (Evans 1912a). Bas.: *Lejeunea camillii* Lehm., Nov. Stirp. Pug. 10: 15, 1857 (Lehmann 1857).
- *** *Cololejeunea contractiloba* A.Evans, Amer. J. Bot. 5 (3): 131, 1918 (Evans 1918).
- *** *Cololejeunea cornuta* E.W.Jones, Trans. Brit. Bryol. Soc. 2 (3): 436, 1954 (Jones 1954c).
- ** *Cololejeunea crenata* (A.Evans) Pócs, Polish Bot. J. 54 (1): 5, 2009 (Pócs and Bernecker 2009). Bas.: *Aphanolejeunea crenata* A.Evans, Bull. Torrey Bot. Club 38 (6): 276, 1911 (Evans 1911).
- *** *Cololejeunea diaphana* A.Evans, Bull. Torrey Bot. Club 32 (4): 184, 1905 (Evans 1905b).
- *** *Cololejeunea erostrata* (Herzog) Bernecker et Pócs, Polish Bot. J. 54 (1): 5, 2009 (Pócs and Bernecker 2009). Bas.: *Physocolea erostrata* Herzog, Beih. Bot. Centralbl. 61B (3): 582, 1942 (Herzog 1942d).

²⁵⁵ *Cololejeunea drepanolejeuneoides* may based on its description be close to *Cololejeunea angustiflora* and especially to *Cololejeunea inflectens*, forming a natural group.

- ** *Cololejeunea gradsteinii* M.J.Lai et R.L.Zhu, Ann. Bot. Fenn. 45 (5): 334, 2008 (Lai et al. 2008). *Nom. nov. pro Cololejeunea pusilla* Tixier, Nat. Hist. Bull. Siam Soc. 23 (4): 552, 1970 (Tixier 1970a), *nom. illeg.*
- ** *Cololejeunea koponenii* (Pócs) Pócs, Polish Bot. J. 54 (1): 6, 2009 (Pócs and Bernecker 2009). Bas.: *Aphanolejeunea koponenii* Pócs, Acta Bot. Fenn. 165: 91, 1999 (Pócs and Piippo 1999).
- *** *Cololejeunea lanceolata* E.W.Jones, Trans. Brit. Bryol. Soc. 2 (3): 428, 1954 (Jones 1954c).
- *** *Cololejeunea moralesiae* (Bern.-Lück.) Bernecker et Pócs, Polish Bot. J. 54 (1): 7, 2009 (Pócs and Bernecker 2009). Bas.: *Aphanolejeunea moralesiae* Bern.-Lück., Nova Hedwigia 66 (1/2): 166, 1998 (Bernecker-Lücking 1998).
- *** *Cololejeunea morobensis* (Pócs) Pócs, Polish Bot. J. 54 (1): 7, 2009 (Pócs and Bernecker 2009). Bas.: *Aphanolejeunea morobensis* Pócs, Ann. Bot. Fenn. 31 (3): 180, 1994 (Pócs et al. 1994).
- *** *Cololejeunea obtusifolia* (E.W.Jones) Tixier, Trop. Bryol. 11: 42, 1995 (Tixier 1995b). Bas.: *Cololejeunea pusilla* var. *obtusifolia* E.W.Jones, Trans. Brit. Bryol. Soc. 2 (3): 427, 1954 (Jones 1954c).
- * *Cololejeunea obtusifolia* var. *madecassa* (Tixier) Pócs, Phytotaxa 202 (1): 64, 2015 (Pócs et al. 2015c). Bas.: *Cololejeunea androphylla* var. *madecassa* Tixier, Bull. Acad. Malgache (n.ser) 55 (1/2): 216, 1977 [1979] (Tixier 1977a).
- *** *Cololejeunea papilliloba* (Steph.) Steph., Hedwigia 34 (5): 250, 1895 (Stephani 1895b). Bas.: *Lejeunea papilliloba* Steph., Hedwigia 29 (2): 73, 1890 (Stephani 1890b).
- ** *Cololejeunea papulosa* R.M.Schust., Phytologia 45 (5): 433, 1980 (Schuster 1980b).
- *** *Cololejeunea paucifolia* (Spruce) Bernecker et Pócs, Polish Bot. J. 54 (1): 8, 2009 (Pócs and Bernecker 2009). Bas.: *Lejeunea paucifolia* Spruce, Bull. Soc. Bot. France (Congr. Bot.) 36: cxciv, 1889 [1890] (Spruce 1889).
- *** *Cololejeunea peponiformis* Mizut., J. Hattori Bot. Lab. 33: 258, 1970 (Mizutani 1970).
- ** *Cololejeunea pseudocuspidata* Tixier, Bauhinia 8 (4): 228, 1987 (Hürlimann 1987).
- *** *Cololejeunea pterocolea* Herzog, Svensk Bot. Tidskr. 46 (1): 103, 1952 (Herzog 1952e).
- *** *Cololejeunea pusilla* Steph., Hedwigia 34 (5): 251, 1895 (Stephani 1895b).
- ** *Cololejeunea spathulata* Jovet-Ast, Rev. Bryol. Lichénol. 29 (1/2): 36, 1960 (Jovet-Ast 1960).
- ** *Cololejeunea taurifolia* Inoue et H.A.Mill., Bull. Natl. Sci. Mus. Tokyo (n.ser.) 8 (2): 152, 1965 (Inoue and Miller 1965).
- *** *Cololejeunea wightii* Steph., Hedwigia 34 (5): 253, 1895 (Stephani 1895b).
- *** *Cololejeunea yelitzae* Pócs et Bernecker, Acta Bot. Hung. 55 (3/4): 386, 2013 (Pócs and Bernecker 2013).
- * **subg. *Leptocolea* (Spruce) Schiffn.**, Hepat. (Engl.-Prantl): 122, 1893 (Schiffner 1893b). Bas.: *Lejeunea* sect. *Leptocolea* Spruce, Trans. & Proc. Bot. Soc. Edinburgh 15: 294, 1884 (Spruce 1884).
- ** *Cololejeunea acuminata* Mizut., J. Hattori Bot. Lab. 33: 261, 1970 (Mizutani 1970).

- *** *Cololejeunea aequabilis* (Sande Lac.) Schiffn., *Consp. Hepat. Arch. Ind.*: 242, 1898 (Schiffner 1898b). Bas.: *Lejeunea aequabilis* Sande Lac., *Ann. Mus. Bot. Lugduno-Batavi* 1: 310, 1864 (Sande Lacoste 1864).
- ** *Cololejeunea altimontana* Pócs, *Acta Bryolichenol. Asiat.* 4: 78, 2011 (Pócs and Piippo 2011).
- *** *Cololejeunea amaniensis* Pócs, *Acta Bot. Hung.* 31 (1/4): 120, 1985 (Pócs 1985).
- *** *Cololejeunea angustibracteata* Schiffn. ex P.Syd., *Just's Bot. Jahresber.* 19: 246, 1894 (Sydow 1894). Based on: *Cololejeunea angustibracteata* Schiffn., *Leberm., Forschungsr. Gazelle* 4 (4): 34, 1890 (Schiffner 1890), *nom. inval.*
- *** *Cololejeunea apiculata* (E.W.Jones) R.M.Schust., *Beih. Nova Hedwigia* 9: 174, 1963 (Schuster 1963a). Bas.: *Leptocolea apiculata* E.W.Jones, *Trans. Brit. Bryol. Soc.* 2 (3): 415, 1954 (Jones 1954c).
- * *Cololejeunea arrectifolia* (Mitt.) Steph., *Bot. Jahrb. Syst.* 23 (1/2, 3): 309, 1896 (Stephani 1896a). Bas.: *Lejeunea arrectifolia* Mitt., *Fl. vit.*: 415, 1871 [1873] (Mitten 1871).
- ** *Cololejeunea aurantia* (Tixier) Thouvenot, *Cryptog. Bryol.* 32 (4): 290, 2011 (Thouvenot et al. 2011). Bas.: *Jovetastella aurantia* Tixier, *Cryptog. Bryol. Lichénol.* 3 (1): 29, 1982 (Tixier 1982).
- ** *Cololejeunea bandamiae* Tixier, *Bull. Acad. Malgache (n.ser)* 55 (1/2): 220, 1977 [1979] (Tixier 1977a).
- ** *Cololejeunea bebourensis* Tixier, *Bull. Acad. Malgache (n.ser)* 55 (1/2): 229, 1977 [1979] (Tixier 1977a).
- ** *Cololejeunea bergmansiana* Tixier, *Bull. Jard. Bot. Natl. Belg.* 59 (3/4): 440, 1989 (Tixier 1989).
- ** *Cololejeunea bidentula* (Steph.) E.W.Jones, *Trans. Brit. Bryol. Soc.* 2 (3): 423, 1954 (Jones 1954c). Bas.: *Physocolea bidentula* Steph., *Sp. Hepat. (Stephani)* 5: 868, 1916 (Stephani 1916b).
- ** *Cololejeunea bifalcata* Pócs, *Acta Bot. Hung.* 54 (1/2): 146, 2012 (Pócs 2012b).
- *** *Cololejeunea blepharophylla* Pócs, *Acta Bot. Hung.* 54 (1/2): 149, 2012 (Pócs 2012b).
- ** *Cololejeunea borhidiana* Pócs, *J. Hattori Bot. Lab.* 48: 305, 1980 (Pócs 1980b).
- ** *Cololejeunea bosseriana* Tixier, *Bull. Acad. Malgache (n.ser)* 55 (1/2): 235, 1977 [1979] (Tixier 1977a).
- ** *Cololejeunea calcarata* E.W.Jones, *Bull. Brit. Mus. (Nat. Hist.), Bot.* 11 (3): 235, 1983 (Jones and Harrington 1983).
- * *Cololejeunea camusii* Tixier, *Bull. Acad. Malgache (n.ser)* 55 (1/2): 227, 1977 [1979] (Tixier 1977a).
- *** *Cololejeunea ceatocarpa* (Ångstr.) Steph., *Bull. Herb. Boissier* 5 (10): 842, 1897 (Stephani 1897c). Bas.: *Lejeunea ceatocarpa* Ångstr., *Öfvers. Kongl. Vetensk.-Akad. Förh.* 29 (4): 27, 1872 (Ångström 1872).
- *** *Cololejeunea ceylanica* Onr., *Acta Bot. Acad. Sci. Hung.* 25 (1/2): 107, 1979 (Onraedt 1979).

- * *Cololejeunea chamlongiana* Tixier, Ann. Fac. Sci. Univ. Phnom Penh 3: 181, 1970 (Tixier 1970b).²⁵⁶
- *** *Cololejeunea chenii* Tixier, Bryophyt. Biblioth. 27: 219, 1985 (Tixier 1985a). *Nom. nov. pro Cololejeunea plagiophylla* var. *grossipapillosa* P.C.Chen et P.C.Wu, Acta Phytotax. Sin. 9 (3): 254, 1964 (Chen and Wu 1964).
- *** *Cololejeunea ciliata* Pócs, Ann. Bot. Fenn. 31 (3): 182, 1994 (Pócs et al. 1994).
- ** *Cololejeunea comptonii* (Pearson) H.A.Mill., Phytologia 47 (4): 321, 1981 (Miller 1981). Bas.: *Leptocolea comptonii* Pearson, J. Linn. Soc., Bot. 46 (305): 40, 1922 (Pearson 1922b).
- ** *Cololejeunea cookei* A.Evans, Trans. Connecticut Acad. Arts 10 (8): 447, 1900 (Evans 1900a).
- ** *Cololejeunea cordiflora* Steph., Hedwigia 34 (5): 246, 1895 (Stephani 1895b).
- ** *Cololejeunea crateris* Pócs, Acta Bot. Hung. 54 (1/2): 153, 2012 (Pócs 2012b).
- * *Cololejeunea crenulata* (Pearson) H.A.Mill., Phytologia 47 (4): 321, 1981 (Miller 1981). Bas.: *Leptocolea crenulata* Pearson, J. Linn. Soc., Bot. 46 (305): 41, 1922 (Pearson 1922b).²⁵⁷
- ** *Cololejeunea cucullifolia* (Herzog) E.A.Hodgs., Rec. Domin. Mus. 4 (11): 127, 1962 (Hodgson 1962a). Bas.: *Physocolea cucullifolia* Herzog, Trans. & Proc. Roy. Soc. New Zealand 68 (1): 45, 1938 (Herzog 1938c).
- ** *Cololejeunea cuneifolia* Steph., Hedwigia 31 (4): 166, 1892 (Stephani 1892g).
- * *Cololejeunea dadeuniana* Tixier, Ann. Fac. Sci. Univ. Phnom Penh 3: 186, 1970 (Tixier 1970b).
- ** *Cololejeunea decemplicata* (Steph.) Tixier, Bull. Acad. Malgache (n.ser) 55 (1/2): 213, 1977 [1979] (Tixier 1977a). Bas.: *Physocolea decemplicata* Steph., Sp. Hepat. (Stephani) 5: 869, 1916 (Stephani 1916b).
- ** *Cololejeunea decliviloba* Steph., Hedwigia 34 (5): 247, 1895 (Stephani 1895b).
- ** *Cololejeunea dentata* (E.W.Jones) R.M.Schust., Beih. Nova Hedwigia 9: 175, 1963 (Schuster 1963a). Bas.: *Leptocolea dentata* E.W.Jones, Trans. Brit. Bryol. Soc. 2 (2): 161, 1953 (Jones 1953a).
- ** *Cololejeunea denticulata* (Horik.) S.Hatt., Bull. Tokyo Sci. Mus. 11: 99, 1944 (Hattori 1944d). Bas.: *Physocolea denticulata* Horik., J. Sci. Hiroshima Univ., Ser. B, Div. 2, Bot. 2: 287, 1934 (Horikawa 1934).
- * *Cololejeunea dentilobula* (Steph.) R.M.Schust., J. Hattori Bot. Lab. 26: 241, 1963 (Schuster 1963b). Bas.: *Physocolea dentilobula* Steph., Sp. Hepat. (Stephani) 5: 892, 1916 (Stephani 1916b).²⁵⁸
- *** *Cololejeunea diana* M.Wigginton, J. Bryol. 28 (4): 364, 2006 (Wigginton 2006).

256 *Cololejeunea chamlongiana* is possibly conspecific with *Cololejeunea papuliflora*.

257 *Cololejeunea crenulata* is possibly conspecific with *Cololejeunea angustiflora* judging from the protologue.

258 *Cololejeunea dentilobula* is possibly conspecific with *Cololejeunea decliviloba* judging from Stephani's Icones (unpublished).

- ** *Cololejeunea dilatata* (Steph.) Mizut., J. Hattori Bot. Lab. 28: 113, 1965 (Mizutani 1965). Bas.: *Leptocolea dilatata* Steph., Sp. Hepat. (Stephani) 5: 850, 1916 (Stephani 1916b).
- *** *Cololejeunea diplasiolejeunoides* Tixier, Bryologist 82 (4): 602, 1979 (Tixier 1979d).
- *** *Cololejeunea distalopapillata* (E.W.Jones) R.M.Schust., Beih. Nova Hedwigia 9: 173, 1963 (Schuster 1963a). Bas.: *Leptocolea distalopapillata* E.W.Jones, Trans. Brit. Bryol. Soc. 3 (2): 202, 1957 (Jones 1957b).
- * *Cololejeunea effusa* (Mitt.) Steph., Bot. Jahrb. Syst. 23 (1/2, 3): 309, 1896 (Stephani 1896a). Bas.: *Lejeunea effusa* Mitt., Fl. vit.: 415, 1871 [1873] (Mitten 1871).²⁵⁹
- *** *Cololejeunea elephantorum* Tixier, Ann. Fac. Sci. Univ. Phnom Penh 3: 185, 1970 (Tixier 1970b).
- ** *Cololejeunea ellipsoidea* R.M.Schust., Nova Hedwigia 15: 508, 1968 (Schuster 1968b).
- *** *Cololejeunea equalbi* Tixier, Ann. Fac. Sci. Univ. Phnom Penh 3: 178, 1970 (Tixier 1970b).
- *** *Cololejeunea filicis* (Herzog) Piippo, J. Hattori Bot. Lab. 68: 133, 1990 (Piippo 1990). Bas.: *Leptocolea filicis* Herzog, Symb. Sin. 5: 52, 1930 (Nicholson et al. 1930).
- * *Cololejeunea fischeri* Tixier, Trop. Bryol. 11: 59, 1995 (Tixier 1995b).²⁶⁰
- ** *Cololejeunea flavicans* (Steph.) Mizut., J. Hattori Bot. Lab. 28: 115, 1965 (Mizutani 1965). Bas.: *Physocolea flavicans* Steph., Sp. Hepat. (Stephani) 5: 893, 1916 (Stephani 1916b).
- * *Cololejeunea fredericii* Onr., Rev. Bryol. Lichénol. 44 (1): 80, 1978 (Onraedt 1978).²⁶¹
- ** *Cololejeunea fusca* (Steph.) Mizut., J. Hattori Bot. Lab. 28: 120, 1965 (Mizutani 1965). Bas.: *Physocolea fusca* Steph., Sp. Hepat. (Stephani) 5: 893, 1916 (Stephani 1916b).
- ** *Cololejeunea gottschei* (Steph.) Pandé, K.P.Srivast. et Ahmad, J. Indian Bot. Soc. 36 (3): 345, 1957 (Pandé et al. 1957). Bas.: *Physocolea gottschei* Steph., Sp. Hepat. (Stephani) 5: 894, 1916 (Stephani 1916b).
- *** *Cololejeunea grossistyla* M.Wigginton, J. Bryol. 28 (4): 369, 2006 (Wigginton 2006).
- *** *Cololejeunea grushvitzkiana* Pócs, Bot. Zhurn. (Moscow & Leningrad) 56 (5): 674, 1971 (Pócs 1971).
- *** *Cololejeunea hainanensis* R.L.Zhu, J. Hattori Bot. Lab. 78: 87, 1995 (Zhu 1995).
- *** *Cololejeunea harrisii* Pócs, Acta Bot. Acad. Sci. Hung. 21 (3/4): 357, 1975 (Pócs 1975).
- *** *Cololejeunea hildebrandii* (Austin) Steph., Bull. Herb. Boissier 5 (10): 842, 1897 (Stephani 1897c). Bas.: *Lejeunea hildebrandii* Austin, Bot. Bull. (Hanover) 1 (8): 35, 1876 (Austin 1876a).
- *** *Cololejeunea hirta* Steph., Bull. Misc. Inform. Kew 1899 (151/152): 125, 1899 (MacGregor 1899).
- ** *Cololejeunea hodgsoniae* (Herzog) E.A.Hodgs., Trans. Roy. Soc. New Zealand, Bot. 3 (11): 184, 1967 (Hodgson 1967). Bas.: *Physocolea hodgsoniae* Herzog, Trans. & Proc. Roy. Soc. New Zealand 68 (1): 46, 1938 (Herzog 1938c).

259 *Cololejeunea effusa* may be conspecific with *Cololejeunea trichomanis*.

260 *Cololejeunea fleischeri* is near to or conspecific with *Cololejeunea bidentula*.

261 *Cololejeunea fredericii* is possibly conspecific with *Cololejeunea polyantha*.

- *** *Cololejeunea horikawana* (S.Hatt.) Mizut., J. Hattori Bot. Lab. 24: 254, 1961 (Mizutani 1961). Bas.: *Leptocolea horikawana* S.Hatt., J. Jap. Bot. 18 (11): 653, 1942 (Hattori 1942).
- *** *Cololejeunea huerlimannii* Tixier, Nova Hedwigia 31: 773, 1979 (Tixier 1979b).
- ** *Cololejeunea inflexifolia* R.M.Schust., Phytologia 56 (7): 458, 1985 (Schuster 1985c).
- *** *Cololejeunea iradieri* M.Infante et Heras, Trop. Bryol. 17: 14, 1999 (Infante and Heras 1999).
- ** *Cololejeunea irianensis* Tixier, Bull. Jard. Bot. Natl. Belg. 59 (3/4): 440, 1989 (Tixier 1989).
- *** *Cololejeunea johannis-winkleri* (Herzog) R.L.Zhu, Nova Hedwigia 79 (3/4): 528, 2004 (Zhu et al. 2004). Bas.: *Leptocolea johannis-winkleri* Herzog, Mitt. Inst. Allg. Bot. Hamburg 7 (3): 214, 1931 (Herzog 1931a).
- ** *Cololejeunea kegelii* Steph., Hedwigia 34 (5): 249, 1895 (Stephani 1895b).
- ** *Cololejeunea khanii* Tixier, Dacca Univ. Stud., B 15: 9, 1967 (Tixier 1967).
- * *Cololejeunea kohkongensis* Tixier, Bryophyt. Biblioth. 27: 302, 1985 (Tixier 1985a).²⁶²
- *** *Cololejeunea lichenyae* R.D.Porley, N.G.Hodgetts et M.Wigginton, J. Bryol. 29 (1): 7, 2007 (Wigginton et al. 2007).
- * *Cololejeunea lobulilineata* Tixier, Trop. Bryol. 11: 42, 1995 (Tixier 1995b).²⁶³
- *** *Cololejeunea longifolia* (Mitt.) Benedix ex Mizut., J. Hattori Bot. Lab. 26: 184, 1963 (Mizutani 1963). Bas.: *Lejeunea longifolia* Mitt., J. Proc. Linn. Soc., Bot. 5 (18): 117, 1860 [1861] (Mitten 1860c).
- *** *Cololejeunea magna* (Tixier) M.Infante et Heras, Trop. Bryol. 17: 17, 1999 (Infante and Heras 1999). Bas.: *Cololejeunea harrisii* var. *magna* Tixier, Trop. Bryol. 11: 56, 1995 (Tixier 1995b).
- ** *Cololejeunea magnifica* Pócs, Acta Bryolichenol. Asiat. 4: 88, 2011 (Pócs and Piippo 2011).
- ** *Cololejeunea magnilobula* (Horik.) S.Hatt., Bull. Tokyo Sci. Mus. 11: 99, 1944 (Hattori 1944d). Bas.: *Physocolea magnilobula* Horik., J. Sci. Hiroshima Univ., Ser. B, Div. 2, Bot. 2: 288, 1934 (Horikawa 1934).
- * *Cololejeunea micronesica* H.A.Mill. et Bonner, Beih. Nova Hedwigia 11: 63, 1963 (Miller et al. 1963).²⁶⁴
- ** *Cololejeunea mooreaensis* Tixier, Bauhinia 8 (4): 226, 1987 (Hürlimann 1987).
- * *Cololejeunea ninguana* Tixier, Nova Hedwigia 31: 776, 1979 (Tixier 1979b).²⁶⁵
- ** *Cololejeunea obcordata* (Austin) A.Evans, Trans. Connecticut Acad. Arts 10 (8): 448, 1900 (Evans 1900a). Bas.: *Lejeunea obcordata* Austin, Bot. Bull. (Hanover) 1 (8): 36, 1876 (Austin 1876a).

²⁶² *Cololejeunea kohkongensis* may be conspecific with *Cololejeunea plagiophylla*.

²⁶³ *Cololejeunea lobulilineata* seems to be a depauperate form of some other species, maybe *Cololejeunea obtusifolia*.

²⁶⁴ *Cololejeunea micronesica* is possibly conspecific with *Cololejeunea cookei* fide Schuster (1980c, 1983a).

²⁶⁵ *Cololejeunea ninguana* is possibly conspecific with *Cololejeunea decliviloba* (Yu et al. 2013).

- *** *Cololejeunea obliqua* (Nees et Mont.) Schiffn., Bot. Jahrb. Syst. 23 (5): 586, 1897 (Schiffner 1897). Bas.: *Lejeunea obliqua* Nees et Mont., Ann. Sci. Nat. Bot. (sér. 2) 19: 264, 1843 (Montagne 1843).
- * *Cololejeunea oblongiperianthia* (P.C.Wu et J.S.Lou) Piippo, J. Hattori Bot. Lab. 68: 134, 1990 (Piippo 1990). Bas.: *Leptocolea oblongiperianthia* P.C.Wu et J.S.Lou, Acta Phytotax. Sin. 16 (4): 109, 1978 (Wu and Lou 1978).²⁶⁶
- ** *Cololejeunea oleana* Sim, Trans. Roy. Soc. South Africa 15 (1): 49, 1926 (Sim 1926).
- ** *Cololejeunea ovalifolia* A.Evans, Trans. Connecticut Acad. Arts 10 (8): 450, 1900 (Evans 1900a).
- ** *Cololejeunea panchoana* Tixier, Ann. Fac. Sci. Univ. Phnom Penh 3: 183, 1970 (Tixier 1970b).
- *** *Cololejeunea paniensis* (Tixier) Grolle, J. Bryol. 8 (4): 485, 1975 (Grolle 1975d). Bas.: *Jovetastella paniensis* Tixier, Rev. Bryol. Lichénol. 39 (4): 662, 1973 [1974] (Tixier 1973c).
- ** *Cololejeunea papuliflora* Steph., Akad. Wiss. Wien, Math.-Naturwiss. Kl., Denkschr. 85: 199, 1910 (Stephani 1910a).
- ** *Cololejeunea pentagona* (Mitt.) Steph., Bot. Jahrb. Syst. 23 (1/2, 3): 309, 1896 (Stephani 1896a). Bas.: *Lejeunea pentagona* Mitt., Fl. vit.: 416, 1871 [1873] (Mitten 1871).
- *** *Cololejeunea plagiochiliana* Tixier, Bot. Not. 128: 428, 1975 [1976] (Tixier 1975a).
- ** *Cololejeunea planiuscula* Tixier, Cryptog. Bryol. Lichénol. 16 (3): 229, 1995 (Tixier 1995a). Based on: *Cololejeunea planiuscula* Tixier, Candollea 46 (2): 289, 1991 (Tixier 1991), *nom. inval.*
- *** *Cololejeunea pseudoserrata* Tixier, Nova Hedwigia 31: 770, 1979 (Tixier 1979b).
- * *Cololejeunea pteroporum* Tixier, Bryophyt. Biblioth. 27: 271, 1985 (Tixier 1985a).²⁶⁷
- ** *Cololejeunea pulchella* (Mitt.) R.M.Schust., J. Hattori Bot. Lab. 26: 241, 1963 (Schuster 1963b). Bas.: *Lejeunea pulchella* Mitt., Bot. antarct. voy. II (Fl. Nov.-Zel. 2): 157, 1854 (Mitten 1854).
- ** *Cololejeunea pulchella* var. *stylifera* R.M.Schust., Phytologia 56 (7): 458, 1985 (Schuster 1985c).
- *** *Cololejeunea quadridentata* (S.Hatt.) Grolle, Acta Bot. Fenn. 125: 65, 1984 (Grolle and Piippo 1984). Bas.: *Leptocolea quadridentata* S.Hatt., Bot. Mag. (Tokyo) 64 (755/756): 117, 1951 (Hattori 1951c).
- ** *Cololejeunea retusula* (Mitt.) H.A.Mill., Phytologia 47 (4): 322, 1981 (Miller 1981). Bas.: *Lejeunea retusula* Mitt., Fl. vit.: 416, 1871 [1873] (Mitten 1871).
- ** *Cololejeunea salgadoi* Onr., Bull. Jard. Bot. Natl. Belg. 59 (3/4): 433, 1989 (Onraedt 1989).
- *** *Cololejeunea sanctae-helenae* M.Wigginton, J. Bryol. 28 (4): 366, 2006 (Wigginton 2006).
- ** *Cololejeunea serrulata* Steph., Hedwigia 34 (5): 252, 1895 (Stephani 1895b).

²⁶⁶ *Cololejeunea oblongiperianthia* is possibly conspecific with *Cololejeunea trichomanis* (Zhu and So 2001).

²⁶⁷ *Cololejeunea pteroporum* is possibly conspecific with *Cololejeunea spathulifolia*.

- *** *Cololejeunea setiloba* A.Evans, Bryologist 16 (4): 51, 1913 (Evans 1913).
- *** *Cololejeunea siangensis* G.Asthana et S.C.Srivast., Bryophyt. Biblioth. 60: 57, 2003 (Asthana and Srivastava 2003).
- *** *Cololejeunea skottsbergii* Herzog, Nat. Hist. Juan Fernandez (Botany) 2 (5): 749, 1942 (Herzog 1942a).
- *** *Cololejeunea societatis* Tixier, Bauhinia 8 (4): 230, 1987 (Hürlimann 1987).
- * *Cololejeunea spathulifolia* (Steph.) H.A.Mill., Phytologia 47 (4): 322, 1981 (Miller 1981). Bas.: *Leptocolea spathulifolia* Steph., Sp. Hepat. (Stephani) 5: 855, 1916 (Stephani 1916b).²⁶⁸
- ** *Cololejeunea spruceana* Tixier, Cryptog. Bryol. Lichénol. 16 (3): 229, 1995 (Tixier 1995a). Based on: *Cololejeunea spruceana* Tixier, Candollea 46 (2): 286, 1991 (Tixier 1991), *nom. inval.*
- ** *Cololejeunea stenophylla* Herzog, Bot. Not. 100 (4): 330, 1947 (Herzog 1947).
- *** *Cololejeunea streimannii* Pócs, Acta Bryolichenol. Asiat. 4: 96, 2011 (Pócs and Piippo 2011).
- ** *Cololejeunea streimannii* subsp. *solomonensis* Pócs, Acta Bryolichenol. Asiat. 4: 96, 2011 (Pócs and Piippo 2011).
- *** *Cololejeunea subalpina* Pócs, Acta Bryolichenol. Asiat. 4: 98, 2011 (Pócs and Piippo 2011).
- ** *Cololejeunea subcristata* A.Evans, Bryologist 20 (2): 24, 1917 (Evans 1917b).
- * *Cololejeunea takamakae* Tixier, Bryophyt. Biblioth. 27: 319, 1985 (Tixier 1985a).²⁶⁹
- *** *Cololejeunea tanzaniae* Pócs, J. Hattori Bot. Lab. 48: 312, 1980 (Pócs 1980b).
- ** *Cololejeunea tenuiparietata* Tixier, Trop. Bryol. 11: 56, 1995 (Tixier 1995b).
- ** *Cololejeunea teurnoumensis* Tixier, Ann. Fac. Sci. Univ. Phnom Penh 3: 183, 1970 (Tixier 1970b).
- *** *Cololejeunea timoi* Pócs, Acta Bryolichenol. Asiat. 4: 98, 2011 (Pócs and Piippo 2011).
- ** *Cololejeunea touwii* Pócs, Acta Bryolichenol. Asiat. 4: 101, 2011 (Pócs and Piippo 2011).
- *** *Cololejeunea tranninhiana* Tixier, Ann. Hist.-Nat. Mus. Natl. Hung. 66: 97, 1974 (Tixier 1974).
- *** *Cololejeunea trichomanis* (Gottsche) Besch., Rev. Bryol. 19 (1): 14, 1892 (Bescherele 1892). Bas.: *Lejeunea trichomanis* Gottsche, Abh. Naturwiss. Vereins Bremen 7: 362, 1882 (Gottsche 1882).
- * *Cololejeunea tuksapiana* Tixier, Ann. Fac. Sci. Univ. Phnom Penh 3: 186, 1970 (Tixier 1970b).²⁷⁰
- ** *Cololejeunea vulcania* Tixier, Ann. Fac. Sci. Univ. Phnom Penh 3: 181, 1970 (Tixier 1970b).
- *** *Cololejeunea yoshinagana* (S.Hatt.) Mizut., J. Hattori Bot. Lab. 24: 250, 1961 (Mizutani 1961). Bas.: *Leptocolea yoshinagana* S.Hatt., Bull. Tokyo Sci. Mus. 11: 115, 1944 (Hattori 1944d).

268 *Cololejeunea spathulifolia* is possibly conspecific with *Cololejeunea obliqua* (Pócs and Piippo 2011).

269 *Cololejeunea takamakae* is possibly conspecific with *Cololejeunea angustiflora*.

270 *Cololejeunea tuksapiana* is possibly conspecific with *Cololejeunea aequalis*.

- * **subg. *Metzgeriopsis* (K.I.Goebel) Pócs**, *Acta Bryolichenol. Asiat.* 4: 106, 2011 (Pócs and Piippo 2011). Bas.: *Metzgeriopsis* K.I.Goebel, *Ann. Jard. Bot. Buitenzorg* 7 (1): 54, 1888 (Goebel 1888).
- *** *Cololejeunea metzgeriopsis* (K.I.Goebel) Gradst., R.Wilson, Ilk.-Borg. et Heinrichs, *Bot. J. Linn. Soc.* 151 (3): 306, 2006 (Gradstein et al. 2006). Bas.: *Lejeunea metzgeriopsis* K.I.Goebel, *Flora* 72 (1): 2, 1889 (Goebel 1889).
- *** **subg. *Pedinolejeunea* Benedix ex Mizut.**, *J. Hattori Bot. Lab.* 24: 240, 1961 (Mizutani 1961).
- ** *Cololejeunea abnormis* Mizut., *J. Hattori Bot. Lab.* 33: 260, 1970 (Mizutani 1970).
- *** *Cololejeunea adhaesiva* (Mitt.) R.M.Schust., *Beih. Nova Hedwigia* 9: 177, 1963 (Schuster 1963a). Bas.: *Lejeunea adhaesiva* Mitt., *J. Linn. Soc., Bot.* 22 (146): 325, 1886 (Mitten 1886b).
- ** *Cololejeunea adnata* Tixier, *Bull. Acad. Malgache (n.ser)* 55 (1/2): 194, 1977 [1979] (Tixier 1977a).
- *** *Cololejeunea africana* (Steph.) R.M.Schust., *Beih. Nova Hedwigia* 9: 173, 1963 (Schuster 1963a). Bas.: *Physocolea africana* Steph., *Sp. Hepat. (Stephani)* 5: 867, 1916 (Stephani 1916b).
- ** *Cololejeunea ambeliensis* Tixier, *Bryophyt. Biblioth.* 27: 142, 1985 (Tixier 1985a).
- ** *Cololejeunea amieuensis* Tixier, *Nova Hedwigia* 31: 748, 1979 (Tixier 1979b).
- ** *Cololejeunea andapania* Tixier, *Bull. Acad. Malgache (n.ser)* 55 (1/2): 178, 1977 [1979] (Tixier 1977a).
- *** *Cololejeunea angulata* (Steph.) Mizut., *J. Hattori Bot. Lab.* 28: 108, 1965 (Mizutani 1965). Bas.: *Leptocolea angulata* Steph., *Sp. Hepat. (Stephani)* 5: 847, 1916 (Stephani 1916b).
- *** *Cololejeunea ankaiana* Tixier, *Bryophyt. Biblioth.* 27: 62, 1985 (Tixier 1985a).
- ** *Cololejeunea attilana* Pócs, *Magyar Bot. Kut. Ezredf. Tanul. Borhidi*: 186, 2002 (Pócs 2002a).
- *** *Cololejeunea auriculata* (E.W.Jones) R.M.Schust., *Beih. Nova Hedwigia* 9: 177, 1963 (Schuster 1963a). Bas.: *Leptocolea auriculata* E.W.Jones, *Trans. Brit. Bryol. Soc.* 2 (2): 152, 1953 (Jones 1953b).
- ** *Cololejeunea autoica* (Steph.) Grolle, *Bryophyt. Biblioth.* 48: 43, 1995 (Grolle 1995). Bas.: *Physocolea autoica* Steph., *Sp. Hepat. (Stephani)* 5: 867, 1916 (Stephani 1916b).
- *** *Cololejeunea bekkeri* Tixier, *Cryptog. Bryol. Lichénol.* 16 (3): 229, 1995 (Tixier 1995a). Based on: *Cololejeunea bekkeri* Tixier, *Candollea* 46 (2): 269, 1991 (Tixier 1991), *nom. inval.*
- *** *Cololejeunea bischleriana* Tixier, *Bradea* 3 (6): 36, 1980 (Tixier 1980a).
- ** *Cololejeunea bolovenensis* Tixier, *Nat. Hist. Bull. Siam Soc.* 24 (3/4): 442, 1973 (Tixier 1973b).
- *** *Cololejeunea borbonica* Tixier, *Bull. Acad. Malgache (n.ser)* 55 (1/2): 188, 1977 [1979] (Tixier 1977a).

- * *Cololejeunea brunelii* Tixier, Dacca Univ. Stud., B 15: 10, 1967 (Tixier 1967).²⁷¹
- *** *Cololejeunea cardiocarpa* (Mont.) A.Evans, Mem. Torrey Bot. Club 8 (2): 172, 1902 (Evans 1902a). Bas.: *Lejeunea cardiocarpa* Mont., Hist. Phys. Cuba, Bot., Pl. Cell.: 476, 1842 (Montagne 1842a).
- * *Cololejeunea chittagongensis* Tixier, Bryophyt. Biblioth. 27: 97, 1985 (Tixier 1985a).²⁷²
- *** *Cololejeunea cocoscola* Tixier, Cryptog. Bryol. Lichénol. 14 (3): 353, 1993 (Tixier 1993).
- ** *Cololejeunea cremersii* Tixier, Cryptog. Bryol. Lichénol. 16 (3): 229, 1995 (Tixier 1995a). Based on: *Cololejeunea cremersii* Tixier, Candollea 46 (2): 271, 1991 (Tixier 1991), *nom. inval.*
- ** *Cololejeunea cristata* (Steph.) R.M.Schust., Beih. Nova Hedwigia 9: 173, 1963 (Schuster 1963a). Bas.: *Physocolea cristata* Steph., Sp. Hepat. (Stephani) 5: 869, 1916 (Stephani 1916b).
- ** *Cololejeunea cuneata* (Lehm. et Lindenb.) Herzog, Bot. Not. 100 (4): 320, 1947 (Herzog 1947). Bas.: *Jungermannia cuneata* Lehm. et Lindenb., Nov. Stirp. Pug. 4: 56, 1832 (Lehmann 1832).
- * *Cololejeunea deroinii* Tixier, Cryptog. Bryol. Lichénol. 14 (3): 355, 1993 (Tixier 1993).
- * *Cololejeunea deslooveri* Vanden Berghen, Bull. Jard. Bot. Natl. Belg. 47 (1/2): 227, 1977 (Vanden Berghen 1977).²⁷³
- * *Cololejeunea dzumacensis* Tixier, Nova Hedwigia 31: 754, 1979 (Tixier 1979b).²⁷⁴
- *** *Cololejeunea ecuadoriensis* Pócs, Acta Bot. Hung. 44 (3/4): 372, 2002 (Pócs 2002b).
- * *Cololejeunea epiphylla* G.Asthana et A.Shukla, Cryptog. Bryol. 31 (3): 218, 2010 (Asthana and Shukla 2010).²⁷⁵
- ** *Cololejeunea fissilobula* Herzog, Trans. Brit. Bryol. Soc. 1 (4): 323, 1950 (Herzog 1950a).
- ** *Cololejeunea florencei* Tixier, Cryptog. Bryol. Lichénol. 14 (3): 355, 1993 (Tixier 1993).
- ** *Cololejeunea foliicola* S.C.Srivast. et G.Srivast., Proc. Indian Acad. Sci. Pl. Sci. 99 (2): 86, 1989 (Srivastava and Srivastava 1989a).
- ** *Cololejeunea fructumarginata* Tixier, Bryophyt. Biblioth. 27: 58, 1985 (Tixier 1985a).
- *** *Cololejeunea furcilibulata* (Berrie et E.W.Jones) R.M.Schust., Beih. Nova Hedwigia 9: 178, 1963 (Schuster 1963a). Bas.: *Leptocolea furcilibulata* Berrie et E.W.Jones, Trans. Brit. Bryol. Soc. 2 (3): 417, 1954 (Jones 1954c).
- *** *Cololejeunea geissleriana* Tixier, Bradea 3 (6): 37, 1980 (Tixier 1980a).

271 *Cololejeunea brunelii* is conspecific with *Cololejeunea madothecoides* in Tixier (1985a), but it belongs to the *Cololejeunea raduliloba*, *Cololejeunea furcilibulata*, *Cololejeunea paucimarginata* species complex.

272 *Cololejeunea chittagongensis* is probably conspecific with *Cololejeunea schwabei*.

273 *Cololejeunea deslooveri* is possibly conspecific with *Cololejeunea cristata*.

274 *Cololejeunea dzumacensis* is possibly conspecific with *Cololejeunea lanciloba*, but the type specimen has not been localized.

275 *Cololejeunea epiphylla* is closely related to *Cololejeunea chittagongensis* and *Cololejeunea schwabei*.

- ** *Cololejeunea georgiana* Tixier, Bryophyt. Biblioth. 27: 145, 1985 (Tixier 1985a).
- *** *Cololejeunea guadelupensis* Tixier, Cryptog. Bryol. Lichénol. 16 (3): 229, 1995 (Tixier 1995a). Based on: *Cololejeunea guadelupensis* Tixier, Candollea 46 (2): 276, 1991 (Tixier 1991), *nom. inval.*
- *** *Cololejeunea hebridensis* Tixier, Bot. Not. 128: 425, 1975 [1976] (Tixier 1975a).
- *** *Cololejeunea hinidumae* Onr., Acta Bot. Acad. Sci. Hung. 25 (1/2): 109, 1979 (Onraedt 1979).
- * *Cololejeunea hoabinhiana* Tixier, Ann. Hist.-Nat. Mus. Natl. Hung. 66: 91, 1974 (Tixier 1974).²⁷⁶
- ** *Cololejeunea hoeana* Tixier, Bryophyt. Biblioth. 27: 56, 1985 (Tixier 1985a).
- ** *Cololejeunea hungii* Tixier, Ann. Hist.-Nat. Mus. Natl. Hung. 66: 91, 1974 (Tixier 1974).
- *** *Cololejeunea indosinica* Tixier, Bryophyt. Biblioth. 27: 63, 1985 (Tixier 1985a).
- ** *Cololejeunea inoueana* Mizut., J. Hattori Bot. Lab. 57: 440, 1984 (Mizutani 1984c).
- ** *Cololejeunea japonica* (Schiffn.) Mizut., J. Hattori Bot. Lab. 24: 241, 1961 (Mizutani 1961). Bas.: *Leptocolea japonica* Schiffn., Ann. Bryol. 2: 92, 1929 (Schiffner 1929).
- *** *Cololejeunea jonesii* Pócs, Acta Bot. Acad. Sci. Hung. 21 (3/4): 361, 1975 (Pócs 1975).
- *** *Cololejeunea kapingaensis* H.A.Mill., Bryologist 59 (3): 170, 1956 (Miller 1956).
- ** *Cololejeunea kiriroensis* Tixier, Bryophyt. Biblioth. 27: 147, 1985 (Tixier 1985a).
- *** *Cololejeunea kulenensis* Tixier, Bryophyt. Biblioth. 27: 71, 1985 (Tixier 1985a). *Nom. nov. pro Leptocolea verdoornii* Herzog, Ann. Bryol. 5: 97, 1932 (Herzog 1932a).
- ** *Cololejeunea laevigata* (Mitt.) R.M.Schust., J. Hattori Bot. Lab. 26: 241, 1963 (Schuster 1963b). Bas.: *Lejeunea laevigata* Mitt., Bot. antarct. voy. II (Fl. Nov.-Zel. 2): 157, 1854 (Mitten 1854).
- *** *Cololejeunea lanciloba* Steph., Hedwigia 34 (5): 250, 1895 (Stephani 1895b).
- *** *Cololejeunea latilobula* (Herzog) Tixier, Bryophyt. Biblioth. 27: 156, 1985 (Tixier 1985a). Bas.: *Leptocolea latilobula* Herzog, Symb. Sin. 5: 54, 1930 (Nicholson et al. 1930).
- *** *Cololejeunea latistyla* R.L.Zhu, Hikobia 11: 544, 1994 (Zhu et al. 1994).
- *** *Cololejeunea leloutrei* (E.W.Jones) R.M.Schust., Beih. Nova Hedwigia 9: 173, 1963 (Schuster 1963a). Bas.: *Leptocolea leloutrei* E.W.Jones, Trans. Brit. Bryol. Soc. 2 (2): 146, 1953 (Jones 1953b).
- ** *Cololejeunea leloutrei* var. *microlobulata* Tixier, Bryophyt. Biblioth. 27: 78, 1985 (Tixier 1985a).
- ** *Cololejeunea leloutrei* var. *ulugurica* Pócs ex Tixier, Bryophyt. Biblioth. 27: 74, 1985 (Tixier 1985a).
- *** *Cololejeunea lemuriana* Tixier, Bull. Acad. Malgache (n.ser) 55 (1/2): 191, 1977 [1979] (Tixier 1977a).
- ** *Cololejeunea littoralis* Tixier, Bryophyt. Biblioth. 27: 163, 1985 (Tixier 1985a).

²⁷⁶ *Cololejeunea hoabinhiana* is possibly conspecific with *Cololejeunea lanciloba*.

- ** *Cololejeunea longistylis* A.Evans, Trans. Connecticut Acad. Arts 10 (8): 453, 1900 (Evans 1900a).
- *** *Cololejeunea magnistyla* (Horik.) Mizut., J. Hattori Bot. Lab. 24: 243, 1961 (Mizutani 1961). Bas.: *Leptocolea magnistyla* Horik., J. Sci. Hiroshima Univ., Ser. B, Div. 2, Bot. 1: 131, 1932 (Horikawa 1932c).
- * *Cololejeunea malaccensis* Tixier, Bryophyt. Biblioth. 27: 42, 1985 (Tixier 1985a).²⁷⁷
- ** *Cololejeunea malayana* Tixier, Bryophyt. Biblioth. 27: 154, 1985 (Tixier 1985a).
- *** *Cololejeunea marginata* (Lehm. et Lindenb.) Pearson, Forh. Vidensk.-Selsk. Kristiania 1892 (8): 9, 1892 (Pearson 1892). Bas.: *Jungermannia marginata* Lehm. et Lindenb., Nov. Stirp. Pug. 5: 11, 1833 (Lehmann 1833).
- * *Cololejeunea maritima* Tixier, Nova Hedwigia 31: 752, 1979 (Tixier 1979b).
- *** *Cololejeunea minutilobula* Herzog, Rev. Bryol. Lichénol. 20 (1/2): 171, 1951 [1952] (Herzog 1951a).
- *** *Cololejeunea nigerica* (E.W.Jones) R.M.Schust., Beih. Nova Hedwigia 9: 177, 1963 (Schuster 1963a). Bas.: *Leptocolea nigerica* E.W.Jones, Trans. Brit. Bryol. Soc. 2 (2): 150, 1953 (Jones 1953b).
- ** *Cololejeunea occidentalis* (E.W.Jones) Vanden Berghen, Rev. Bryol. Lichénol. 44 (4): 449, 1978 (Vanden Berghen 1978). Bas.: *Leptocolea cristata* var. *occidentalis* E.W.Jones, Trans. Brit. Bryol. Soc. 2 (2): 149, 1953 (Jones 1953b).
- ** *Cololejeunea onraedtii* Tixier, Bull. Acad. Malgache (n.ser) 55 (1/2): 202, 1977 [1979] (Tixier 1977a).
- *** *Cololejeunea pacifica* Pócs, Acta Bot. Hung. 54 (1/2): 158, 2012 (Pócs 2012b).
- ** *Cololejeunea panamensis* G.Dauphin et Pócs, Trop. Bryol. 27: 76, 2006 (Dauphin et al. 2006).
- *** *Cololejeunea paucimarginata* Tixier, Bryophyt. Biblioth. 27: 100, 1985 (Tixier 1985a).
- ** *Cololejeunea perakensis* Tixier, Bryophyt. Biblioth. 27: 95, 1985 (Tixier 1985a).
- *** *Cololejeunea plagiophylla* Benedix, Feddes Repert. Spec. Nov. Regni Veg. Beih. 134: 73, 1953 (Benedix 1953).
- *** *Cololejeunea planissima* (Mitt.) Abeyw., Ceylon J. Sci., Biol. Sci. 2 (1): 73, 1959 (Abeywickrama 1959). Bas.: *Lejeunea planissima* Mitt., J. Proc. Linn. Soc., Bot. 5 (18): 117, 1860 [1861] (Mitten 1860c).
- ** *Cololejeunea planissima* var. *chagosensis* Pócs, J. Bryol. 28 (1): 14, 2006 (Seaward et al. 2006).
- ** *Cololejeunea praeruptorum* Tixier, Bull. Acad. Malgache (n.ser) 55 (1/2): 205, 1977 [1979] (Tixier 1977a).
- ** *Cololejeunea producta* (Mitt.) S.Hatt., Fl. E. Himalaya: 533, 1966 (Hattori 1966c). Bas.: *Lejeunea producta* Mitt., J. Proc. Linn. Soc., Bot. 5 (18): 117, 1860 [1861] (Mitten 1860c).

²⁷⁷ *Cololejeunea malaccensis* may be conspecific with *Cololejeunea stylosa*.

- * *Cololejeunea punctata* (Gottsche) Pearson, Forh. Vidensk.-Selsk. Kristiania 1892 (14): 9, 1893 (Pearson 1893). Bas.: *Lejeunea punctata* Gottsche, Abh. Naturwiss. Vereins Bremen 7: 361, 1882 (Gottsche 1882).²⁷⁸
- *** *Cololejeunea raduliloba* Steph., Hedwigia 34 (5): 251, 1895 (Stephani 1895b).
- * *Cololejeunea reineckeana* Steph., Bot. Jahrb. Syst. 23 (1/2, 3): 309, 1896 (Stephani 1896a).
- ** *Cololejeunea saltuum* Tixier, Bull. Acad. Malgache (n.ser) 55 (1/2): 188, 1977 [1979] (Tixier 1977a).
- ** *Cololejeunea sambiroana* Tixier, Bryologist 82 (4): 608, 1979 (Tixier 1979d).
- *** *Cololejeunea saroltae* Pócs, Acta Bot. Hung. 54 (1/2): 160, 2012 (Pócs 2012b).
- *** *Cololejeunea schusteri* Pócs, Acta Bot. Hung. 44 (3/4): 376, 2002 (Pócs 2002b).
- ** *Cololejeunea schwabei* Herzog, J. Hattori Bot. Lab. 14: 54, 1955 (Herzog and Noguchi 1955).
- *** *Cololejeunea selangorensis* Tixier, Bryophyt. Biblioth. 27: 166, 1985 (Tixier 1985a).
- *** *Cololejeunea shibiensis* Mizut., J. Hattori Bot. Lab. 57: 437, 1984 (Mizutani 1984c).
- *** *Cololejeunea smitinandii* Tixier, Bryophyt. Biblioth. 27: 131, 1985 (Tixier 1985a). Based on: *Cololejeunea smitinandii* Tixier, Nat. Hist. Bull. Siam Soc. 24 (3/4): 439, 1973 (Tixier 1973b), *nom. inval.*
- ** *Cololejeunea stoniana* Tixier, Bot. Not. 128: 429, 1975 [1976] (Tixier 1975a).
- *** *Cololejeunea stylosa* Steph., Trans. Connecticut Acad. Arts 10 (8): 454, 1900 (Evans 1900a). Based on: *Cololejeunea stylosa* Steph., Hedwigia 27 (11/12): 289, 1888 (Stephani 1888c), *nom. inval.*
- *** *Cololejeunea subcardiocarpa* Tixier, Bradea 3 (6): 39, 1980 (Tixier 1980a).
- ** *Cololejeunea subinflata* Tixier, Bull. Acad. Malgache (n.ser) 55 (1/2): 182, 1977 [1979] (Tixier 1977a).
- *** *Cololejeunea submarginata* Tixier, Bradea 3 (6): 40, 1980 (Tixier 1980a).
- ** *Cololejeunea subminutilobula* Mizut., J. Hattori Bot. Lab. 24: 282, 1961 (Mizutani 1961). *Nom. nov. pro Leptocolea minutilobula* Horik., J. Sci. Hiroshima Univ., Ser. B, Div. 2, Bot. 1: 16, 1931 (Horikawa 1931b).
- ** *Cololejeunea subscariosa* (Spruce) Pócs, Acta Bot. Hung. 56 (1/2): 197, 2014 (Pócs et al. 2014). Bas.: *Lejeunea subscariosa* Spruce, Trans. & Proc. Bot. Soc. Edinburgh 15: 300, 1884 (Spruce 1884).
- ** *Cololejeunea subtriapiculata* Tixier, Nova Hedwigia 31: 744, 1979 (Tixier 1979b).
- *** *Cololejeunea succinea* Tixier, Bull. Acad. Malgache (n.ser) 55 (1/2): 194, 1977 [1979] (Tixier 1977a).
- *** *Cololejeunea surinamensis* Tixier, Bradea 3 (6): 42, 1980 (Tixier 1980a).
- ** *Cololejeunea tahitensis* Tixier, Cryptog. Bryol. Lichénol. 14 (3): 359, 1993 (Tixier 1993).
- ** *Cololejeunea tamatavensis* Tixier, Bull. Acad. Malgache (n.ser) 55 (1/2): 191, 1977 [1979] (Tixier 1977a).

278 *Cololejeunea punctata* is a doubtful taxon. The type specimen has been destroyed and the identity is unclear (Grolle 1995).

- * *Cololejeunea taprobanea* Tixier, Bryophyt. Biblioth. 27: 158, 1985 (Tixier 1985a).
- * *Cololejeunea thailandensis* Tixier, Nat. Hist. Bull. Siam Soc. 24 (3/4): 441, 1973 (Tixier 1973b).
- ** *Cololejeunea triapiculata* (Herzog) Tixier, Gard. Bull. Singapore 25 (3): 344, 1971 (Tixier 1971). Bas.: *Leptocolea triapiculata* Herzog, Ann. Bryol. 5: 95, 1932 (Herzog 1932a).
- * *Cololejeunea tribracteata* Tixier, Trop. Bryol. 11: 46, 1995 (Tixier 1995b).²⁷⁹
- * *Cololejeunea tridentata* Tixier, Bryophyt. Biblioth. 27: 83, 1985 (Tixier 1985a).
- * *Cololejeunea uchimae* Amakawa, J. Jap. Bot. 33 (5): 142, 1958 (Amakawa 1958a).²⁸⁰
- *** *Cololejeunea verwimpfii* Tixier, Cryptog. Bryol. Lichénol. 16 (3): 230, 1995 (Tixier 1995a).
- *** *Cololejeunea vidaliana* Tixier, Nat. Hist. Bull. Siam Soc. 24 (3/4): 444, 1973 (Tixier 1973b).
- ** *Cololejeunea vietnamensis* Tixier, Bryophyt. Biblioth. 27: 127, 1985 (Tixier 1985a).
- ** *Cololejeunea vitaliana* Tixier, Cryptog. Bryol. Lichénol. 16 (3): 230, 1995 (Tixier 1995a).
- *** *Cololejeunea yakusimensis* (S.Hatt.) Mizut., J. Hattori Bot. Lab. 57: 430, 1984 (Mizutani 1984c). Bas.: *Leptocolea lanciloba* var. *yakusimensis* S.Hatt., J. Jap. Bot. 18 (11): 655, 1942 (Hattori 1942).
- * **subg. *Protocolea* R.M.Schust.**, Beih. Nova Hedwigia 9: 171, 1963 (Schuster 1963a).
- ** *Cololejeunea chuahiana* Pócs, Polish Bot. J. 47 (1): 11, 2002 (Pócs 2002c).²⁸¹
- ** *Cololejeunea dauphinii* R.L.Zhu, J. Bryol. 28 (3): 277, 2006 (Zhu 2006b). *Nom. nov. pro Cololejeunea tixieri* M.I.Morales et G.Dauphin, Trop. Bryol. 14: 133, 1998 (Morales and Dauphin 1998), *nom. illeg.*²⁸²
- ** *Cololejeunea disciflora* Tixier, Bryologist 82 (4): 604, 1979 (Tixier 1979d).²⁸³
- *** **subg. *Taeniolejeunea* (Zwickel) Benedix**, Feddes Repert. Spec. Nov. Regni Veg. Beih. 134: 21, 1953 (Benedix 1953). Bas.: *Taeniolejeunea* Zwickel, Ann. Bryol. 6: 106, 1933 (Zwickel 1933).
- * *Cololejeunea amoena* Benedix, Feddes Repert. Spec. Nov. Regni Veg. Beih. 134: 25, 1953 (Benedix 1953).²⁸⁴
- *** *Cololejeunea appressa* (A.Evans) Benedix, Feddes Repert. Spec. Nov. Regni Veg. Beih. 134: 31, 1953 (Benedix 1953). Bas.: *Leptocolea appressa* A.Evans, Bull. Torrey Bot. Club 39 (12): 606, 1912 [1913] (Evans 1912d).

279 *Cololejeunea tribracteata* is possibly conspecific with *Cololejeunea africana*.

280 *Cololejeunea uchimae* is conspecific with *Cololejeunea raduliloba* in Mizutani (1961), but it is accepted in recent Japanese checklists.

281 *Cololejeunea chuahiana* is probably a *Myriocoleopsis* species (Yu et al. 2014).

282 *Cololejeunea dauphinii* is probably a *Myriocoleopsis* species (Yu et al. 2014).

283 *Cololejeunea disciflora* is probably a *Myriocoleopsis* species (Yu et al. 2014).

284 *Cololejeunea amoena* is possibly conspecific with *Cololejeunea floccosa* (Söderström et al. 2010a).

- * *Cololejeunea bachmaensis* Tixier, Rev. Bryol. Lichénol. 36 (3/4): 560, 1969 [1970] (Tixier 1969).
- * *Cololejeunea bontocensis* Tixier, Rev. Bryol. Lichénol. 36 (3/4): 583, 1969 [1970] (Tixier 1969).²⁸⁵
- * *Cololejeunea crassipapillata* Tixier, Rev. Bryol. Lichénol. 36 (3/4): 565, 1969 [1970] (Tixier 1969).
- ** *Cololejeunea eustacei* Pócs, J. Bryol. 29 (2): 83, 2007 (Müller and Pócs 2007).
- *** *Cololejeunea falcata* (Horik.) Benedix, Feddes Repert. Spec. Nov. Regni Veg. Beih. 134: 29, 1953 (Benedix 1953). Bas.: *Physocolea falcata* Horik., J. Sci. Hiroshima Univ., Ser. B, Div. 2, Bot. 1: 22, 1931 (Horikawa 1931b).
- ** *Cololejeunea falcata* var. *madecassa* Tixier, Bryologist 82 (4): 606, 1979 (Tixier 1979d).
- * *Cololejeunea flavida* P.C.Wu et J.S.Lou, Acta Phytotax. Sin. 16 (4): 103, 1978 (Wu and Lou 1978).²⁸⁶
- ** *Cololejeunea flavovittata* Pócs, Acta Bryolichenol. Asiat. 4: 120, 2011 (Pócs and Piippo 2011).
- *** *Cololejeunea floccosa* (Lehm. et Lindenb.) Schiffn., Consp. Hepat. Arch. Ind.: 243, 1898 (Schiffner 1898b). Bas.: *Jungermannia floccosa* Lehm. et Lindenb., Nov. Stirp. Pug. 5: 26, 1833 (Lehmann 1833).
- * *Cololejeunea floccosa* var. *amoenoides* Tixier, Cryptog. Bryol. Lichénol. 2 (1): 59, 1981 (Tixier 1981).
- ** *Cololejeunea floccosa* var. *angustibracteata* Tixier, Cryptog. Bryol. Lichénol. 2 (1): 65, 1981 (Tixier 1981).
- ** *Cololejeunea floccosa* var. *aurita* Benedix, Feddes Repert. Spec. Nov. Regni Veg. Beih. 134: 24, 1953 (Benedix 1953).
- ** *Cololejeunea floccosa* var. *conivens* Benedix, Feddes Repert. Spec. Nov. Regni Veg. Beih. 134: 24, 1953 (Benedix 1953).
- * *Cololejeunea floccosa* var. *ocellata* Tixier, Cryptog. Bryol. Lichénol. 2 (1): 69, 1981 (Tixier 1981).
- ** *Cololejeunea floccosa* var. *plicata* Tixier, Cryptog. Bryol. Lichénol. 2 (1): 65, 1981 (Tixier 1981).
- ** *Cololejeunea floccosa* var. *trivittata* Tixier, Cryptog. Bryol. Lichénol. 2 (1): 62, 1981 (Tixier 1981).
- ** *Cololejeunea gresicola* Tixier, Rev. Bryol. Lichénol. 36 (3/4): 569, 1969 [1970] (Tixier 1969).
- ** *Cololejeunea gynophthalma* Benedix, Feddes Repert. Spec. Nov. Regni Veg. Beih. 134: 32, 1953 (Benedix 1953).
- *** *Cololejeunea inflata* Steph., Hedwigia 34 (5): 249, 1895 (Stephani 1895b).
- ** *Cololejeunea khiavensis* Tixier, Rev. Bryol. Lichénol. 36 (3/4): 557, 1969 [1970] (Tixier 1969).

285 *Cololejeunea bontocensis* is possibly conspecific with *Cololejeunea pseudostephani*.

286 *Cololejeunea flavida* may be conspecific with *Cololejeunea peraffinis* (Zhu and So 2001).

- ** *Cololejeunea koratensis* Tixier, Rev. Bryol. Lichénol. 36 (3/4): 585, 1969 [1970] (Tixier 1969).
- * *Cololejeunea manlinensis* Tixier, Rev. Bryol. Lichénol. 36 (3/4): 563, 1969 [1970] (Tixier 1969).
- ** *Cololejeunea maquilingsensis* Tixier, Rev. Bryol. Lichénol. 36 (3/4): 579, 1969 [1970] (Tixier 1969).
- ** *Cololejeunea mutabilis* Benedix, Feddes Repert. Spec. Nov. Regni Veg. Beih. 134: 27, 1953 (Benedix 1953).
- ** *Cololejeunea nakajimae* S.Hatt., J. Hattori Bot. Lab. 10: 57, 1953 (Hattori and Kodama 1953).
- *** *Cololejeunea ocellata* (Horik.) Benedix, Feddes Repert. Spec. Nov. Regni Veg. Beih. 134: 38, 1953 (Benedix 1953). Bas.: *Leptocolea ocellata* Horik., J. Sci. Hiroshima Univ., Ser. B, Div. 2, Bot. 1: 86, 1932 (Horikawa 1932a).
- *** *Cololejeunea ocelloides* (Horik.) Mizut., J. Hattori Bot. Lab. 24: 277, 1961 (Mizutani 1961). Bas.: *Leptocolea ocelloides* Horik., J. Sci. Hiroshima Univ., Ser. B, Div. 2, Bot. 2: 280, 1934 (Horikawa 1934).
- *** *Cololejeunea peraffinis* (Schiffn.) Schiffn., Consp. Hepat. Arch. Ind.: 245, 1898 (Schiffner 1898b). Bas.: *Lejeunea peraffinis* Schiffn., Nova Acta Acad. Caes. Leop.-Carol. German. Nat. Cur. 60 (2): 242, 1893 (Schiffner 1893a).
- * *Cololejeunea peraffinis* var. *ciconiae* Tixier, Bull. Jard. Bot. Natl. Belg. 59 (3/4): 444, 1989 (Tixier 1989).
- ** *Cololejeunea peraffinis* var. *elegans* Benedix, Feddes Repert. Spec. Nov. Regni Veg. Beih. 134: 35, 1953 (Benedix 1953).
- ** *Cololejeunea peraffinis* var. *serrulata* Schiffn. ex Benedix, Feddes Repert. Spec. Nov. Regni Veg. Beih. 134: 35, 1953 (Benedix 1953).
- * *Cololejeunea polisiana* Tixier, Rev. Bryol. Lichénol. 36 (3/4): 550, 1969 [1970] (Tixier 1969).²⁸⁷
- *** *Cololejeunea pseudofloccosa* (Horik.) Benedix, Feddes Repert. Spec. Nov. Regni Veg. Beih. 134: 36, 1953 (Benedix 1953). Bas.: *Leptocolea pseudofloccosa* Horik., J. Sci. Hiroshima Univ., Ser. B, Div. 2, Bot. 1: 87, 1932 (Horikawa 1932a).
- *** *Cololejeunea pseudostephanii* Tixier, Rev. Bryol. Lichénol. 36 (3/4): 571, 1969 [1970] (Tixier 1969).
- ** *Cololejeunea setosa* Mizut., J. Hattori Bot. Lab. 29: 163, 1966 (Mizutani 1966).
- *** *Cololejeunea sharpii* Mizut., J. Hattori Bot. Lab. 39: 258, 1975 (Mizutani 1975).
- *** *Cololejeunea siamensis* Steph., Bot. Tidsskr. 24 (3): 279, 1902 (Stephani 1902b).
- *** *Cololejeunea sphaerodonta* Mizut., J. Hattori Bot. Lab. 29: 165, 1966 (Mizutani 1966).
- *** *Cololejeunea stephanii* Schiffn. ex Benedix, Feddes Repert. Spec. Nov. Regni Veg. Beih. 134: 40, 1953 (Benedix 1953).
- ** *Cololejeunea subfloccosa* Mizut., J. Hattori Bot. Lab. 57: 168, 1984 (Mizutani 1984b).
- ** *Cololejeunea subocelloides* Mizut., J. Hattori Bot. Lab. 57: 163, 1984 (Mizutani 1984b).

²⁸⁷ *Cololejeunea polisiana* may be conspecific with *Cololejeunea peraffinis*.

- * *Cololejeunea tamdaoensis* Tixier, Rev. Bryol. Lichénol. 36 (3/4): 567, 1969 [1970] (Tixier 1969).
- ** *Cololejeunea verdoornii* (S.Hatt.) S.Hatt., J. Hattori Bot. Lab. 17: 75, 1956 [1957] (Hattori 1956b). Bas.: *Taeniolejeunea verdoornii* S.Hatt., J. Jap. Bot. 17: 459, 1941 (Hattori 1941).
- ** *Cololejeunea yipii* R.L.Zhu, Beih. Nova Hedwigia 121: 346, 2001 (Zhu and So 2001).
- ** *Cololejeunea zantenorum* Pócs, Acta Bryolichenol. Asiat. 4: 127, 2011 (Pócs and Piippo 2011).

Incertae sedis

- ** *Cololejeunea conchifolia* (Gottsche) Gradst., J. Hattori Bot. Lab. 45: 109, 1979 (Gradstein and Hekking 1979). Bas.: *Lejeunea conchifolia* Gottsche, Ann. Sci. Nat. Bot. (sér. 5) 1: 163, 1864 (Gottsche 1864).²⁸⁸
- ** *Cololejeunea dankiaensis* Tixier, Phytotaxa 220 (2): 199, 2015 (Söderström et al. 2015d). Based on: *Cololejeunea dankiaensis* Tixier, Rev. Bryol. Lichénol. 36 (3/4): 581, 1969 [1970] (Tixier 1969), *nom. inval.*
- ** *Cololejeunea ensifera* Tixier, Phytotaxa 220 (2): 199, 2015 (Söderström et al. 2015d). Based on: *Cololejeunea ensifera* Tixier, Rev. Bryol. Lichénol. 36 (3/4): 562, 1969 [1970] (Tixier 1969), *nom. inval.*
- ** *Cololejeunea hamata* Steph., Hedwigia 34 (5): 248, 1895 (Stephani 1895b).
- ** *Cololejeunea herzogii* K.I.Goebel, Biblioth. Bot. 87 (2): 269, 1916 (Stephani 1916a).
- ** *Cololejeunea jamesii* (Austin) M.E.Reiner et Pócs, Phytotaxa 208 (1): 98, 2015 (Pócs et al. 2015a). Bas.: *Lejeunea jamesii* Austin, Bull. Torrey Bot. Club 6 (30): 158, 1877 (Austin 1877).
- ** *Cololejeunea sublatistyla* Jian Wang bis et R.L.Zhu, Phytotaxa 161 (2): 165, 2014 (Wang et al. 2014a).
- ** *Cololejeunea tixieri* Onr., Bull. Jard. Bot. Natl. Belg. 59 (3/4): 436, 1989 (Onraedt 1989).
- * *Cololejeunea variifolia* (Mitt.) Steph., Bot. Jahrb. Syst. 23 (1/2, 3): 309, 1896 (Stephani 1896a). Bas.: *Lejeunea variifolia* Mitt., Fl. vit.: 415, 1871 [1873] (Mitten 1871).
- *** ***Colura* (Dumort.) Dumort.**, Recueil Observ. Jungerm.: 12, 1835 (Dumortier 1835). Bas.: *Lejeunea* sect. *Colura* Dumort., Syll. Jungerm. Europ.: 32, 1831 (Dumortier 1831).
- ** **subg. *Colura***
- ** **sect. *Colura***
- *** *Colura berghenii* Jovet-Ast, Rev. Bryol. Lichénol. 22 (2/3): 245, 1953 [1954] (Jovet-Ast 1953).

288 *Cololejeunea conchifolia* is probably a *Myriocoleopsis* species (Yu et al. 2014).

- *** *Colura calyptrifolia* (Hook.) Dumort., Recueil Observ. Jungerm.: 12, 1835 (Dumortier 1835). Bas.: *Jungermannia calyptrifolia* Hook., Brit. Jungermann.: tab. 43, 1813 (Hooker 1813).
- *** *Colura hedbergiana* Pócs, J. Bryol. 14 (3): 499, 1987 (Jones and Pócs 1987).
- *** *Colura humbertii* Jovet-Ast, Rev. Bryol. Lichénol. 22 (2/3): 251, 1953 [1954] (Jovet-Ast 1953).
- *** *Colura irrorata* (Spruce) Heinrichs, Y.Yu, Schäf.-Verw. et Pócs, Phytotaxa 66: 58, 2012 (Heinrichs et al. 2012c). Bas.: *Myriocolea irrorata* Spruce, Trans. & Proc. Bot. Soc. Edinburgh 15: 305, 1884 (Spruce 1884).
- ** *Colura junghuhniana* (Prantl) Steph., Sp. Hepat. (Stephani) 5: 938, 1916 (Stephani 1916b). Bas.: *Lejeunea junghuhniana* Prantl, Hedwigia 29: xvi, 1890 (Prantl 1890).
- ** *Colura medusa* J.Eggers et Pócs, Chenia 11: 22, 2013 (Pócs 2013).
- ** *Colura mizutanii* Pócs, Chenia 11: 22, 2013 (Pócs 2013).
- *** *Colura rhynchophora* Jovet-Ast, Rev. Bryol. Lichénol. 17 (1/4): 27, 1948 [1949] (Jovet-Ast 1948).
- *** *Colura tenuicornis* (A.Evans) Steph., Sp. Hepat. (Stephani) 5: 942, 1916 (Stephani 1916b), *nom. conserv.* Bas.: *Colurolejeunea tenuicornis* A.Evans, Trans. Connecticut Acad. Arts 10 (8): 455, 1900 (Evans 1900a).
- ** **sect. *Gamolepis*** Jovet-Ast, Cryptog. Bryol. Lichénol. 4 (3): 207, 1983 (Jovet-Ast 1983).
- *** *Colura cristata* Jovet-Ast, Rev. Bryol. Lichénol. 22 (2/3): 291, 1953 [1954] (Jovet-Ast 1953).
- *** *Colura greig-smithii* Jovet-Ast, Rev. Bryol. Lichénol. 22 (2/3): 293, 1953 [1954] (Jovet-Ast 1953).
- *** *Colura inflata* K.I.Goebel, Ann. Jard. Bot. Buitenzorg 39: 11, 1928 (Goebel 1928).
- *** *Colura jovet-astiae* Grolle, J. Hattori Bot. Lab. 28: 44, 1965 (Grolle 1965b). *Nom. nov. pro Colura undulata* Jovet-Ast, Rev. Bryol. Lichénol. 30 (1/2): 7, 1961 (Jovet-Ast 1961), *nom. illeg.*
- *** *Colura meijeri* Jovet-Ast, Rev. Bryol. Lichénol. 22 (2/3): 290, 1953 [1954] (Jovet-Ast 1953).
- *** *Colura obvoluta* Jovet-Ast, Cryptog. Bryol. Lichénol. 4 (3): 207, 1983 (Jovet-Ast 1983).
- *** *Colura ornata* K.I.Goebel, Ann. Jard. Bot. Buitenzorg 9 (1): 26, 1890 [1891] (Goebel 1890).
- *** *Colura palawanensis* Jovet-Ast, Rev. Bryol. Lichénol. 22 (2/3): 305, 1953 [1954] (Jovet-Ast 1953).
- *** *Colura valida* Jovet-Ast, Rev. Bryol. Lichénol. 30 (1/2): 6, 1961 (Jovet-Ast 1961).
- *** *Colura verdoornii* Herzog et Jovet-Ast, Rev. Bryol. Lichénol. 22 (2/3): 288, 1953 [1954] (Jovet-Ast 1953).
- ** **sect. *Harmophyllum*** Grolle, J. Hattori Bot. Lab. 28: 44, 1965 (Grolle 1965b).
- *** *Colura andoi* Gradst. et Jovet-Ast, Hikobia 9: 355, 1986 (Gradstein 1986).

- *** *Colura ari* (Steph.) Steph., Sp. Hepat. (Stephani) 5: 936, 1916 (Stephani 1916b). Bas.: *Colurolejeunea ari* Steph., Hedwigia 35 (3): 73, 1896 (Stephani 1896b).
- *** *Colura australiensis* Jovet-Ast, Rev. Bryol. Lichénol. 22 (2/3): 260, 1953 [1954] (Jovet-Ast 1953).
- *** *Colura brevistyla* Herzog, Beih. Bot. Centralbl. 38 (2): 331, 1921 (Herzog 1921).
- *** *Colura calderae* Pócs, J. Bryol. 29 (2): 84, 2007 (Müller and Pócs 2007).
- *** *Colura clementis* Grolle, J. Hattori Bot. Lab. 28: 45, 1965 (Grolle 1965b).
- *** *Colura conica* (Sande Lac.) K.I.Goebel, Ann. Jard. Bot. Buitenzorg 39: 3, 1928 (Goebel 1928). Bas.: *Lejeunea conica* Sande Lac., Ann. Mus. Bot. Lugduno-Batavi 1: 311, 1864 (Sande Lacoste 1864).
- *** *Colura corynophora* (Nees, Lindenb. et Gottsche) Trevis., Mem. Reale Ist. Lombardo Sci. (Ser. 3), C. Sci. Mat. 4 (13): 402, 1877 (Trevisan 1877). Bas.: *Lejeunea corynophora* Nees, Lindenb. et Gottsche, Observ. bot.: 474, 1843 (Gottsche et al. 1843).
- *** *Colura crenulata* Grolle, J. Hattori Bot. Lab. 28: 46, 1965 (Grolle 1965b).
- *** *Colura crispiloba* Jovet-Ast, Cryptog. Bryol. Lichénol. 4 (3): 205, 1983 (Jovet-Ast 1983).
- ** *Colura cylindrica* Herzog, Svensk Bot. Tidskr. 46 (1): 106, 1952 (Herzog 1952e).
- *** *Colura cymbalifera* Herzog et Jovet-Ast, Rev. Bryol. Lichénol. 22 (2/3): 268, 1953 [1954] (Jovet-Ast 1953).
- *** *Colura digitalis* (Mitt.) Steph., Sp. Hepat. (Stephani) 5: 931, 1916 (Stephani 1916b). Bas.: *Lejeunea digitalis* Mitt., J. Linn. Soc., Bot. 22 (146): 325, 1886 (Mitten 1886b).
- ** *Colura digitalis* var. *mucronata* Pócs, Fragm. Florist. Geobot. 40 (1): 263, 1995 (Pócs 1995).
- *** *Colura dusenii* Steph., Sp. Hepat. (Stephani) 5: 931, 1916 (Stephani 1916b). Based on: *Colurolejeunea dusenii* Steph., Hedwigia 31 (4): 168, 1892 (Stephani 1892g).
- *** *Colura fastigiata* Jovet-Ast, Rev. Bryol. Lichénol. 27 (1/2): 28, 1958 (Jovet-Ast 1958).
- *** *Colura fistulosa* Jovet-Ast, Cryptog. Bryol. Lichénol. 4 (3): 211, 1983 (Jovet-Ast 1983).
- *** *Colura hattoriana* Pócs, J. Hattori Bot. Lab. 74: 47, 1993 (Pócs 1993).
- *** *Colura heimii* Jovet-Ast, Rev. Bryol. Lichénol. 22 (2/3): 275, 1953 [1954] (Jovet-Ast 1953).
- *** *Colura hemisphaerica* Jovet-Ast, Rev. Bryol. Lichénol. 22 (2/3): 267, 1953 [1954] (Jovet-Ast 1953).
- *** *Colura herzogii* Jovet-Ast, Rev. Bryol. Lichénol. 22 (2/3): 261, 1953 [1954] (Jovet-Ast 1953).
- *** *Colura inuii* Horik., J. Sci. Hiroshima Univ., Ser. B, Div. 2, Bot. 1: 68, 1931 (Horikawa 1931a).
- ** *Colura koponenii* Pócs, Chenia 11: 29, 2013 (Pócs 2013).
- ** *Colura mauritiana* Pócs, Cryptog. Bryol. Lichénol. 18 (3): 196, 1997 (Pócs 1997a).
- *** *Colura maxima* Jovet-Ast, Rev. Bryol. Lichénol. 22 (2/3): 284, 1953 [1954] (Jovet-Ast 1953).
- *** *Colura mosenii* Steph., Sp. Hepat. (Stephani) 5: 940, 1916 (Stephani 1916b).
- ** *Colura norrisii* Pócs, Chenia 11: 29, 2013 (Pócs 2013).

- *** *Colura obesa* Jovet-Ast, Rev. Bryol. Lichénol. 22 (2/3): 273, 1953 [1954] (Jovet-Ast 1953).
- *** *Colura pallida* Steph., Sp. Hepat. (Stephani) 5: 941, 1916 (Stephani 1916b).
- *** *Colura pluridentata* Jovet-Ast, Rev. Bryol. Lichénol. 22 (2/3): 265, 1953 [1954] (Jovet-Ast 1953).
- *** *Colura speciosa* Jovet-Ast, Rev. Bryol. Lichénol. 22 (2/3): 307, 1953 [1954] (Jovet-Ast 1953).
- ** *Colura streimannii* Pócs, Polish Bot. J. 60 (1): 7, 2015 (Pócs 2015b).
- *** *Colura superba* (Mont.) Steph., Sp. Hepat. (Stephani) 5: 941, 1916 (Stephani 1916b). Bas.: *Lejeunea superba* Mont., Ann. Sci. Nat. Bot. (sér. 3) 10: 115, 1848 (Montagne 1848).
- *** *Colura thomeensis* Pócs, Bryologist 114 (2): 363, 2011 (Pócs 2011b).
- *** *Colura tortifolia* (Nees et Mont.) Trevis., Mem. Reale Ist. Lombardo Sci. (Ser. 3), C. Sci. Mat. 4 (13): 402, 1877 (Trevisan 1877). Bas.: *Lejeunea tortifolia* Nees et Mont., Ann. Sci. Nat. Bot. (sér. 2) 19: 265, 1843 (Montagne 1843).
- *** *Colura tutuilana* (Pearson) H.A.Mill., Phytologia 47 (4): 322, 1981 (Miller 1981). Bas.: *Colurolejeunea tutuilana* Pearson, Amer. Samoa: 151, 1924 (Pearson 1924a).
- *** *Colura ulei* Jovet-Ast, Rev. Bryol. Lichénol. 22 (2/3): 270, 1953 [1954] (Jovet-Ast 1953).
- *** *Colura vitiensis* Pócs et J.Eggers, Polish Bot. J. 52 (2): 88, 2007 (Pócs and Eggers 2007).
- ** **sect. *Oidocorys*** Jovet-Ast ex Grolle, J. Hattori Bot. Lab. 32: 140, 1969 (Grolle 1969c).
- *** *Colura itatyana* Steph., Sp. Hepat. (Stephani) 5: 932, 1916 (Stephani 1916b).
- *** *Colura naumannii* (Schiffn.) Steph., Sp. Hepat. (Stephani) 5: 935, 1916 (Stephani 1916b). Bas.: *Colurolejeunea naumannii* Schiffn., Hepat. (Engl.-Prantl): 121, 1893 (Schiffner 1893b).
- *** *Colura ornithocephala* Herzog, Svensk Bot. Tidskr. 46 (1): 107, 1952 (Herzog 1952e).
- *** *Colura pulcherrima* Jovet-Ast, Rev. Bryol. Lichénol. 22 (2/3): 235, 1953 [1954] (Jovet-Ast 1953).
- ** *Colura pulcherrima* var. *bartlettii* Jovet-Ast, Cryptog. Bryol. Lichénol. 1 (3): 278, 1980 (Jovet-Ast 1980).
- *** *Colura saccophylla* E.A.Hodgs. et Herzog, Trans. & Proc. Roy. Soc. New Zealand 77 (2): 253, 1949 (Herzog 1949a).
- *** *Colura schusteri* Grolle, J. Hattori Bot. Lab. 32: 140, 1969 (Grolle 1969c).
- ** **subg. *Glotta*** Grolle et R.L.Zhu, J. Hattori Bot. Lab. 92: 187, 2002 (Grolle and Zhu 2002).
- ** **sect. *Glotta*** Grolle et R.L.Zhu, J. Hattori Bot. Lab. 92: 187, 2002 (Grolle and Zhu 2002).
- *** *Colura bicornis* Jovet-Ast, Rev. Bryol. Lichénol. 25 (3/4): 272, 1956 [1957] (Jovet-Ast 1956).
- *** *Colura bisvoluta* Herzog et Jovet-Ast, Rev. Bryol. Lichénol. 22 (2/3): 228, 1953 [1954] (Jovet-Ast 1953).

- *** *Colura inornata* Jovet-Ast, Rev. Bryol. Lichénol. 25 (3/4): 275, 1956 [1957] (Jovet-Ast 1956).
- *** *Colura karstenii* K.I.Goebel, Pflanzenbiol. Schilderungen 2 (1): 153, 1891 (Goebel 1891).
- *** *Colura queenslandica* B.M.Thiers, Brittonia 39 (2): 175, 1987 (Thiers 1987b).
- *** *Colura saroltae* Pócs, J. Bryol. 14 (3): 497, 1987 (Jones and Pócs 1987).
- *** *Colura strophiolata* Jovet-Ast, Rev. Bryol. Lichénol. 42 (4): 917, 1976 (Jovet-Ast 1976).
- *** *Colura usambarica* E.W.Jones, J. Bryol. 14 (3): 495, 1987 (Jones and Pócs 1987).
- ** **sect. *Heterophyllum* Jovet-Ast**, Cryptog. Bryol. Lichénol. 4 (3): 213, 1983 (Jovet-Ast 1983).
- *** *Colura acroloba* (Prantl) Jovet-Ast, Rev. Bryol. Lichénol. 22 (2/3): 297, 1953 [1954] (Jovet-Ast 1953). Bas.: *Lejeunea acroloba* Prantl, Hedwigia 29: xiv, 1890 (Prantl 1890).
- *** *Colura corniantha* Grolle, J. Hattori Bot. Lab. 28: 44, 1965 (Grolle 1965b). *Nom. nov. pro Colura cornuta* Jovet-Ast, Rev. Bryol. Lichénol. 30 (1/2): 11, 1961 (Jovet-Ast 1961), *nom. illeg.*
- ** *Colura denticulata* Jovet-Ast, Rev. Bryol. Lichénol. 23 (1/2): 2, 1954 (Jovet-Ast 1954).
- *** *Colura galeata* Jovet-Ast, Rev. Bryol. Lichénol. 35 (1/4): 146, 1967 [1968] (Jovet-Ast 1967a).
- ** *Colura imperfecta* Steph., Sp. Hepat. (Stephani) 5: 938, 1916 (Stephani 1916b).
- *** *Colura siamensis* Jovet-Ast, Rev. Bryol. Lichénol. 35 (1/4): 139, 1967 [1968] (Jovet-Ast 1967b).
- *** *Colura tixieri* Jovet-Ast, Rev. Bryol. Lichénol. 30 (1/2): 9, 1961 (Jovet-Ast 1961).
- *** *Colura vietnamensis* Jovet-Ast et Tixier, Rev. Bryol. Lichénol. 27 (3/4): 205, 1958 [1959] (Jovet-Ast and Tixier 1958).

Incertae sedis

- ** *Colura amboinensis* Steph., Sp. Hepat. (Stephani) 5: 935, 1916 (Stephani 1916b).
- *** *Colura hirta* Steph., Sp. Hepat. (Stephani) 5: 932, 1916 (Stephani 1916b).
- *** ***Diplasiolejeunea* (Spruce) Schiffn.**, Hepat. (Engl.-Prantl): 121, 1893 (Schiffner 1893b). Bas.: *Lejeunea* subg. *Diplasiolejeunea* Spruce, Trans. & Proc. Bot. Soc. Edinburgh 15: 301, 1884 (Spruce 1884).²⁸⁹
- *** *Diplasiolejeunea utriculata* Steph., Sp. Hepat. (Stephani) 5: 920, 1916 (Stephani 1916b).
- ** **subg. *Austrolejeuneopsis* R.M.Schust.**, Bull. Torrey Bot. Club 97 (6): 349, 1970 (Schuster 1970b).
- *** *Diplasiolejeunea alata* Jovet-Ast, Rev. Bryol. Lichénol. 17 (1/4): 31, 1948 [1949] (Jovet-Ast 1948).

²⁸⁹ *Diplasiolejeunea* is here only provisionally accepted with subgenera following Schuster (1970b), but they are not supported by the molecular phylogeny by Dong et al. (2012) where the type species of subg. *Austrolejeuneopsis* and *Physolejeunea* are nested in subg. *Diplasiolejeunea*.

- *** *Diplasiolejeunea eggersii* Pócs, Bryologist 109 (3): 408, 2006 (Pócs 2006b).
- *** *Diplasiolejeunea erostrata* Schäf.-Verw., Cryptog. Bryol. 25 (1): 3, 2004 (Schäfer-Verwimp 2004).
- * *Diplasiolejeunea guadalupensis* Steph., Sp. Hepat. (Stephani) 5: 924, 1916 (Stephani 1916b).²⁹⁰
- * *Diplasiolejeunea heimii* Jovet-Ast, Rev. Bryol. Lichénol. 29 (1/2): 39, 1960 (Jovet-Ast 1960).²⁹¹
- ** *Diplasiolejeunea involuta* S.Winkl., Rev. Bryol. Lichénol. 35 (1/4): 320, 1967 [1968] (Winkler 1967).
- ** *Diplasiolejeunea involuta* subsp. *andicola* Pócs, Cryptog. Bryol. Lichénol. 19 (1): 12, 1998 (León et al. 1998).
- *** *Diplasiolejeunea johnsonii* A.Evans, Bull. Torrey Bot. Club 39 (12): 603, 1912 [1913] (Evans 1912d).
- ** *Diplasiolejeunea johnsonii* var. *mexicana* Jovet-Ast, Rev. Bryol. Lichénol. 29 (1/2): 39, 1960 (Jovet-Ast 1960).
- * *Diplasiolejeunea montecristensis* S.Winkl., Rev. Bryol. Lichénol. 35 (1/4): 321, 1967 [1968] (Winkler 1967).²⁹²
- *** *Diplasiolejeunea papilionacea* R.M.Schust., Phytologia 39 (6): 431, 1978 (Schuster 1978b).
- *** *Diplasiolejeunea pauckertii* (Nees) Steph., Sp. Hepat. (Stephani) 5: 924, 1916 (Stephani 1916b). Bas.: *Lejeunea pauckertii* Nees, Syn. Hepat. 3: 392, 1845 (Gottsche et al. 1845b).
- *** *Diplasiolejeunea pluridentata* Schäf.-Verw., Haussknechtia 8: 71, 2001 (Schäfer-Verwimp 2001b).
- *** *Diplasiolejeunea replicata* (Spruce) Steph., Sp. Hepat. (Stephani) 5: 926, 1916 (Stephani 1916b). Bas.: *Lejeunea replicata* Spruce, Trans. & Proc. Bot. Soc. Edinburgh 15: 302, 1884 (Spruce 1884).
- ** *Diplasiolejeunea rudolphiana* Steph., Hedwigia 35 (3): 79, 1896 (Stephani 1896b).²⁹³
- *** *Diplasiolejeunea runsorensis* Steph., Bot. Jahrb. Syst. 20 (3): 318, 1895 (Stephani 1895a).
- *** *Diplasiolejeunea unidentata* (Lehm. et Lindenb.) Schiffn., Bot. Jahrb. Syst. 23 (5): 583, 1897 (Schiffner 1897). Bas.: *Jungermannia unidentata* Lehm. et Lindenb., Nov. Stirp. Pug. 6: 48, 1834 (Lehmann 1834).

** **subg. *Diplasiolejeunea***

- *** *Diplasiolejeunea armatiloba* Steph., Hedwigia 35 (3): 80, 1896 (Stephani 1896b).

290 *Diplasiolejeunea guadalupensis* is a poorly known taxon with some similarities to the *Diplasiolejeunea replicata* species complex (Schäfer-Verwimp and Reiner-Drehwald 2009).

291 *Diplasiolejeunea heimii* is possibly conspecific with *Diplasiolejeunea replicata* (Schäfer-Verwimp and Pócs 2009).

292 *Diplasiolejeunea montecristensis* is possibly conspecific with *Diplasiolejeunea replicata*.

293 *Diplasiolejeunea rudolphiana* and *Diplasiolejeunea unidentata* are genetically very close and may be conspecific (Dong et al. 2012).

- *** *Diplasiolejeunea borhidiana* Reyes Montoya, Acta Bot. Acad. Sci. Hung. 28 (1/2): 177, 1982 [1983] (Reyes 1982).
- *** *Diplasiolejeunea brunnea* Steph., Sp. Hepat. (Stephani) 5: 922, 1916 (Stephani 1916b).
- ** *Diplasiolejeunea caribea* Tixier, Bryophyt. Biblioth. 27: 377, 1985 (Tixier 1985a).
- *** *Diplasiolejeunea cavifolia* Steph., Sp. Hepat. (Stephani) 5: 918, 1916 (Stephani 1916b). *Nom. nov. pro Lejeunea cavifolia* Steph., Bot. Jahrb. Syst. 8 (2): 89, 1886 (Stephani 1886d), *nom. illeg.*
- *** *Diplasiolejeunea cobrensis* Steph., Sp. Hepat. (Stephani) 5: 923, 1916 (Stephani 1916b).
- ** *Diplasiolejeunea cobrensis* subsp. *antsirananae* Pócs, Candollea 56 (1): 72, 2001 (Pócs 2001).
- ** *Diplasiolejeunea cogoensis* M.Infante, Heras et Pócs, Trop. Bryol. 17: 9, 1999 (Infante et al. 1999).
- ** *Diplasiolejeunea cubensis* Tixier, Bryophyt. Biblioth. 27: 389, 1985 (Tixier 1985a).
- * *Diplasiolejeunea glaziovii* Tixier, Bryophyt. Biblioth. 27: 397, 1985 (Tixier 1985a).²⁹⁴
- *** *Diplasiolejeunea ingekarolae* Schäf.-Verw., Herzogia 19: 239, 2006 (Schäfer-Verwimp 2006).
- ** *Diplasiolejeunea jonesii* Tixier, Acta Bot. Hung. 30 (1/2): 21, 1984 (Tixier 1984).
- *** *Diplasiolejeunea leiocarpa* Jovet-Ast, Rev. Bryol. Lichénol. 16 (1/2): 34, 1947 [1948] (Jovet-Ast 1947b).
- *** *Diplasiolejeunea malleiformis* (A.Evans) Tixier, Bryophyt. Biblioth. 27: 351, 1985 (Tixier 1985a). Bas.: *Diplasiolejeunea pellucida* var. *malleiformis* A.Evans, Bull. Torrey Bot. Club 39 (5): 215, 1912 (Evans 1912c).
- ** *Diplasiolejeunea palustrium* Tixier, Acta Bot. Hung. 30 (1/2): 19, 1984 (Tixier 1984).
- *** *Diplasiolejeunea pellucida* (C.F.W.Meissn. ex Spreng.) Schiffn., Hepat. (Engl.-Prantl): 121, 1893 (Schiffner 1893b). Bas.: *Jungermannia pellucida* C.F.W.Meissn. ex Spreng. Syst. Veg. (ed. 16) [Sprengel] 4 (2): 325, 1827 (Sprengel 1827b).
- ** *Diplasiolejeunea phyllarthronii* Tixier, Acta Bot. Hung. 30 (1/2): 19, 1984 (Tixier 1984).
- *** *Diplasiolejeunea pocsii* Reyes Montoya, Acta Bot. Acad. Sci. Hung. 28 (1/2): 173, 1982 [1983] (Reyes 1982).
- ** **subg. *Physolejeunea* R.M.Schust.**, Bull. Torrey Bot. Club 97 (6): 348, 1970 (Schuster 1970b).
- *** *Diplasiolejeunea andringitrae* Schäf.-Verw., Cryptog. Bryol. 27 (4): 447, 2006 (Pócs and Schäfer-Verwimp 2006).
- *** *Diplasiolejeunea cornuta* Steph., Sp. Hepat. (Stephani) 5: 918, 1916 (Stephani 1916b).
- *** *Diplasiolejeunea jovet-astiae* Grolle, Feddes Repert. 73 (2): 84, 1966 (Grolle 1966b).
- *** *Diplasiolejeunea kraussiana* (Lindenb.) Steph., Sp. Hepat. (Stephani) 5: 919, 1916 (Stephani 1916b). Bas.: *Lejeunea kraussiana* Lindenb., Syn. Hepat. 3: 393, 1845 (Gottsche et al. 1845b).
- *** *Diplasiolejeunea ornata* Pócs et Schäf.-Verw., Cryptog. Bryol. 27 (4): 440, 2006 (Pócs and Schäfer-Verwimp 2006).

294 *Diplasiolejeunea glaziovii* may be conspecific with *Diplasiolejeunea cavifolia* (Dong et al. 2012).

- *** *Diplasiolejeunea patelligera* Herzog, Svensk Bot. Tidskr. 42 (3): 240, 1948 (Herzog 1948).
- *** *Diplasiolejeunea plicatiloba* (Hook.f. et Taylor) Grolle, J. Hattori Bot. Lab. 45: 175, 1979 (Grolle 1979c). Bas.: *Jungermannia plicatiloba* Hook.f. et Taylor, London J. Bot. 4: 92, 1845 (Hooker and Taylor 1845).
- *** *Diplasiolejeunea pusilla* Grolle, Feddes Repert. 86 (1/2): 79, 1975 (Grolle 1975a).
- *** *Diplasiolejeunea ranomafanae* Pócs, Cryptog. Bryol. 27 (4): 444, 2006 (Pócs and Schäfer-Verwimp 2006).
- *** *Diplasiolejeunea villaumei* Steph., Sp. Hepat. (Stephani) 5: 921, 1916 (Stephani 1916b).
- *** *Diplasiolejeunea zakiae* Tixier, Lindbergia 4 (1/2): 123, 1977 (Tixier 1977b).

Incertae sedis

- *** *Diplasiolejeunea albifolia* (Taylor) E.W.Jones, Trans. Brit. Bryol. Soc. 2 (3): 393, 1954 (Jones 1954a). Bas.: *Lejeunea albifolia* Taylor, London J. Bot. 5: 399, 1846 (Taylor 1846b).
- *** *Diplasiolejeunea aulae* E.W.Jones, J. Bryol. 7 (4): 552, 1973 [1974] (Jones 1973).
- ** *Diplasiolejeunea auriculata* Tixier, Rev. Bryol. Lichénol. 45 (2): 210, 1979 (Tixier 1979c).
- *** *Diplasiolejeunea buckii* Grolle, Beitr. Phytotax. 15: 105, 1992 (Grolle 1992a).
- ** *Diplasiolejeunea columbica* Tixier, Cryptog. Bryol. Lichénol. 4 (3): 233, 1983 (Tixier 1983a).
- * *Diplasiolejeunea comorensis* Tixier, Rev. Bryol. Lichénol. 45 (2): 213, 1979 (Tixier 1979c).
- ** *Diplasiolejeunea cyanguguensis* Tixier, Trop. Bryol. 11: 67, 1995 (Tixier 1995b).
- *** *Diplasiolejeunea deslooveri* Vanden Berghen, Bull. Jard. Bot. Natl. Belg. 47 (1/2): 217, 1977 (Vanden Berghen 1977).
- ** *Diplasiolejeunea ensifera* Tixier, Rev. Bryol. Lichénol. 45 (2): 215, 1979 (Tixier 1979c).
- * *Diplasiolejeunea evansii* Tixier, Bryophyt. Biblioth. 27: 360, 1985 (Tixier 1985a).²⁹⁵
- ** *Diplasiolejeunea gradsteinii* Tixier, Trop. Bryol. 11: 67, 1995 (Tixier 1995b).
- *** *Diplasiolejeunea grandirostrata* Schäf.-Verw., Cryptog. Bryol. 25 (1): 7, 2004 (Schäfer-Verwimp 2004).
- *** *Diplasiolejeunea grolleana* Reyes Montoya, Acta Bot. Acad. Sci. Hung. 28 (1/2): 175, 1982 [1983] (Reyes 1982).
- ** *Diplasiolejeunea hamata* Tixier, Rev. Bryol. Lichénol. 45 (2): 217, 1979 (Tixier 1979c).
- ** *Diplasiolejeunea insignis* Tixier, Lindbergia 4 (1/2): 120, 1977 (Tixier 1977b).
- * *Diplasiolejeunea integerrima* Tixier, Rev. Bryol. Lichénol. 45 (2): 219, 1979 (Tixier 1979c).²⁹⁶
- *** *Diplasiolejeunea lanceolata* Grolle, Beitr. Phytotax. 15: 107, 1992 (Grolle 1992a).

295 *Diplasiolejeunea evansii* is a doubtful taxon and the type specimen could not be found in PC (Schäfer-Verwimp 2004).

296 *Diplasiolejeunea integerrima* is a juvenile *Acrolejeunea* species, but the type is too poor to allow identification (Grolle 1995).

- *** *Diplasiolejeunea latipuensis* Tixier, Cryptog. Bryol. Lichénol. 16 (3): 230, 1995 (Tixier 1995a). Based on: *Diplasiolejeunea latipuensis* Tixier, Candollea 46 (2): 294, 1991 (Tixier 1991), *nom. inval.*
- ** *Diplasiolejeunea lemuriانا* Tixier, Lindbergia 4 (1/2): 120, 1977 (Tixier 1977b).
- ** *Diplasiolejeunea longilobula* Herzog, Trans. Brit. Bryol. Soc. 1 (4): 325, 1950 (Herzog 1950a).
- ** *Diplasiolejeunea magnistipula* Tixier, Ann. Fac. Sci. Yaoundé 20: 7, 1975 (Tixier 1975b).
- *** *Diplasiolejeunea mayaykuensis* Schäf.-Verw. et Heinrichs, Polish Bot. J. 58 (1): 143, 2013 (Schäfer-Verwimp et al. 2013).
- *** *Diplasiolejeunea onraedtii* Grolle, Feddes Repert. 89 (5/6): 301, 1978 (Grolle 1978a).
- ** *Diplasiolejeunea ramicola* Tixier, Rev. Bryol. Lichénol. 45 (2): 222, 1979 (Tixier 1979c).
- ** *Diplasiolejeunea riclefgyrollei* Schäf.-Verw., Cryptog. Bryol. 26 (1): 37, 2005 (Schäfer-Verwimp 2005).
- ** *Diplasiolejeunea subcornuta* Tixier, Lindbergia 4 (1/2): 122, 1977 (Tixier 1977b).
- *** *Diplasiolejeunea symoensii* Vanden Berghen, Bull. Soc. Roy. Bot. Belgique 92: 126, 1960 (Vanden Berghen 1960b).
- ** ***Haplolejeunea Grolle***, J. Hattori Bot. Lab. 39: 205, 1975 (Grolle 1975b).
- *** *Haplolejeunea cucullata* (Steph.) Grolle, J. Hattori Bot. Lab. 45: 176, 1979 (Grolle 1979c). Bas.: *Cheilolejeunea cucullata* Steph., Sp. Hepat. (Stephani) 5: 644, 1914 (Stephani 1914b).
- ** *Haplolejeunea sticta* Grolle, J. Hattori Bot. Lab. 39: 205, 1975 (Grolle 1975b).
- ** ***Macrocolura R.M.Schust.***, J. Hattori Bot. Lab. 75: 233, 1994 (Schuster 1994).
- *** *Macrocolura sagittistipula* (Spruce) R.M.Schust., J. Hattori Bot. Lab. 75: 233, 1994 (Schuster 1994). Bas.: *Lejeunea sagittistipula* Spruce, Trans. & Proc. Bot. Soc. Edinburgh 15: 304, 1884 (Spruce 1884).
- *** ***Myriocoleopsis Schiffn.***, Hedwigia 81 (5/6): 234, 1944 (Schiffner 1944).
- *** *Myriocoleopsis fluviatilis* (Steph.) M.E.Reiner et Gradst., J. Bryol. 19 (3): 639, 1997 (Reiner-Drehwald and Gradstein 1997). Bas.: *Cololejeunea fluviatilis* Steph., Hedwigia 34 (5): 248, 1895 (Stephani 1895b).
- *** *Myriocoleopsis gymnocolea* (Spruce) M.E.Reiner et Gradst., J. Bryol. 19 (3): 640, 1997 (Reiner-Drehwald and Gradstein 1997). Bas.: *Lejeunea gymnocolea* Spruce, Trans. & Proc. Bot. Soc. Edinburgh 15: 296, 1884 (Spruce 1884).
- *** *Myriocoleopsis minutissima* (Sm.) R.L.Zhu, Y.Yu et Pócs, Phytotaxa 183 (4): 293, 2014 (Yu et al. 2014). Bas.: *Jungermannia minutissima* Sm., Engl. Bot. 23: tab. 1633, 1806 (Smith and Sowerby 1806).
- *** *Myriocoleopsis minutissima* subsp. *myriocarpa* (Nees et Mont.) R.L.Zhu, Y.Yu et Pócs, Phytotaxa 183 (4): 294, 2014 (Yu et al. 2014). Bas.: *Lejeunea myriocarpa* Nees et Mont., Hist. Phys. Cuba, Bot., Pl. Cell.: 473, 1842 (Montagne 1842a).

- ** *Myriocoleopsis vuquangensis* (Pócs et Ninh) Pócs, Trop. Bryol. 31: 124, 2010 (Pócs 2010a). Bas.: *Cololejeunea vuquangensis* Pócs et Ninh, Acta Bot. Hung. 47 (1/2): 156, 2005 (Pócs and Ninh 2005).
- ** ***Nephelolejeunea Grolle***, J. Hattori Bot. Lab. 37: 252, 1973 (Grolle 1973b).
- ** *Nephelolejeunea bidentata* B.M.Thiers ex L.Söderstr. et A.Hagborg, Phytotaxa 202 (1): 65, 2015 (Pócs et al. 2015c). Based on: *Austrolejeunea bidentata* B.M.Thiers, Bryologist 88 (4): 350, 1985 [1986] (Thiers 1985), *nom. inval.*
- ** *Nephelolejeunea carcharias* M.A.M.Renner, Syst. Bot. 34 (4): 621, 2009 (Renner et al. 2009).
- *** *Nephelolejeunea conchophylla* Grolle, J. Hattori Bot. Lab. 48: 164, 1980 (Grolle 1980a).
- ** *Nephelolejeunea fragilis* (R.M.Schust.) L.Söderstr. et A.Hagborg, Phytotaxa 202 (1): 65, 2015 (Pócs et al. 2015c). Bas.: *Cololejeunea fragilis* R.M.Schust., Phytologia 56 (7): 458, 1985 (Schuster 1985c).
- *** *Nephelolejeunea hamata* Grolle, J. Hattori Bot. Lab. 48: 167, 1980 (Grolle 1980a).
- *** *Nephelolejeunea hispida* R.M.Schust. ex L.Söderstr. et A.Hagborg, Phytotaxa 202 (1): 66, 2015 (Pócs et al. 2015c). Based on: *Austrolejeunea hispida* R.M.Schust., Phytologia 47 (4): 305, 1981 (Schuster 1981a), *nom. inval.*
- *** *Nephelolejeunea jarmaniana* Grolle ex L.Söderstr. et A.Hagborg, Phytotaxa 202 (1): 66, 2015 (Pócs et al. 2015c). Based on: *Austrolejeunea jarmaniana* Grolle, Nova Hedwigia 55 (1/2): 112, 1992 (Grolle 1992b), *nom. inval.*
- *** *Nephelolejeunea nudipes* (Hook.f. et Taylor) L.Söderstr. et A.Hagborg, Phytotaxa 202 (1): 66, 2015 (Pócs et al. 2015c). Bas.: *Jungermannia nudipes* Hook.f. et Taylor, London J. Bot. 3: 568, 1844 (Hooker and Taylor 1844d).
- ** *Nephelolejeunea occidentalis* Pócs ex L.Söderstr. et A.Hagborg, Phytotaxa 202 (1): 66, 2015 (Pócs et al. 2015c). Based on: *Austrolejeunea occidentalis* Pócs, J. Hattori Bot. Lab. 99: 187, 2006 (Pócs 2006d), *nom. inval.*
- *** *Nephelolejeunea papillosa* Glenny, New Zealand J. Bot. 34 (2): 195, 1996 (Glenny 1996).
- *** *Nephelolejeunea radulifolia* (C.Massal.) L.Söderstr. et A.Hagborg, Phytotaxa 202 (1): 66, 2015 (Pócs et al. 2015c). Bas.: *Lejeunea radulifolia* C.Massal., Nuovo Giorn. Bot. Ital. 17 (3): 248, 1885 (Massalongo 1885).
- ** *Nephelolejeunea secunda* M.A.M.Renner ex L.Söderstr. et A.Hagborg, Phytotaxa 202 (1): 66, 2015 (Pócs et al. 2015c). Based on: *Austrolejeunea secunda* M.A.M.Renner, Bryologist 113 (4): 782, 2010 (Renner 2010), *nom. inval.*
- *** *Nephelolejeunea talinayi* (S.W.Arnell) Grolle, J. Hattori Bot. Lab. 37: 253, 1973 (Grolle 1973b). Bas.: *Harpalejeunea talinayi* S.W.Arnell, Svensk Bot. Tidskr. 50 (2): 309, 1956 (Arnell 1956d).
- ** ***Schusterolejeunea Grolle***, J. Bryol. 11 (1): 105, 1980 (Grolle 1980b). *Nom. nov. pro Cladocolea* R.M.Schust., Beih. Nova Hedwigia 9: 155, 1963 (Schuster 1963a).

- *** *Schusterolejeunea inundata* (Spruce) Grolle, J. Bryol. 11 (1): 105, 1980 (Grolle 1980b). Bas.: *Lejeunea inundata* Spruce, Trans. & Proc. Bot. Soc. Edinburgh 15: 278, 1884 (Spruce 1884).
- ** ***Siphonolejeunea Herzog***, Nat. Hist. Juan Fernandez (Botany) 2 (5): 744, 1942 (Herzog 1942a).
- ** *Siphonolejeunea elegantissima* (Steph.) Grolle, J. Hattori Bot. Lab. 41: 405, 1976 (Grolle 1976b). Bas.: *Trachylejeunea elegantissima* Steph., Hedwigia 28 (4): 262, 1889 (Stephani 1889c).
- ** *Siphonolejeunea neesii* (Mont.) Bischl., Nova Hedwigia 17: 338, 1969 (Bischler 1969). Bas.: *Lejeunea neesii* Mont., Ann. Sci. Nat. Bot. (sér. 2) 5: 62, 1836 (Nees and Montagne 1836).
- *** *Siphonolejeunea schiffneri* (Schiffn.) Herzog, Svensk Bot. Tidskr. 42 (3): 230, 1948 (Herzog 1948). Bas.: *Pycnolejeunea schiffneri* Schiffn., Consp. Hepat. Arch. Ind.: 260, 1898 (Schiffner 1898b).
- ** ***Tuyamaella S.Hatt.***, J. Hattori Bot. Lab. 5: 60, 1951 (Hattori 1951d).
- ** *Tuyamaella angulistipa* (Steph.) R.M.Schust. et Kachroo, J. Linn. Soc., Bot. 56 (368): 508, 1961 (Kachroo and Schuster 1961). Bas.: *Pycnolejeunea angulistipa* Steph., Hedwigia 35 (3): 123, 1896 (Stephani 1896b).
- ** *Tuyamaella borneensis* Tixier, Rev. Bryol. Lichénol. 39 (2): 241, 1973 (Tixier 1973a).
- ** *Tuyamaella hattorii* Tixier, Rev. Bryol. Lichénol. 31 (3/4): 188, 1962 [1963] (Tixier 1962).
- ** *Tuyamaella jackii* (Steph.) Tixier, Rev. Bryol. Lichénol. 39 (2): 235, 1973 (Tixier 1973a). Bas.: *Pycnolejeunea jackii* Steph., Sp. Hepat. (Stephani) 5: 611, 1914 (Stephani 1914b).
- *** *Tuyamaella molischii* (Schiffn.) S.Hatt., J. Hattori Bot. Lab. 5: 62, 1951 (Hattori 1951d). Bas.: *Pycnolejeunea molischii* Schiffn., Ann. Bryol. 2: 97, 1929 (Schiffner 1929).
- ** *Tuyamaella molischii* var. *brevistipa* P.C.Wu et P.J.Lin, Acta Phytotax. Sin. 16 (2): 65, 1978 (Wu and Lin 1978).
- ** *Tuyamaella molischii* var. *taiwanensis* R.L.Zhu et M.L.So, Nova Hedwigia 70 (1/2): 190, 2000 (Zhu and So 2000).
- ** *Tuyamaella serratistipa* S.Hatt., Bot. Mag. (Tokyo) 64 (755/756): 118, 1951 (Hattori 1951c).
- *† subtrib. **Cyclolejeuneinae Gradst.**
- *** ***Bromeliophila R.M.Schust.***, J. Hattori Bot. Lab. 75: 226, 1994 (Schuster 1994).
- *** *Bromeliophila helenae* Gradst., Cryptog. Bryol. Lichénol. 18 (3): 218, 1997 (Gradstein 1997).

- *** *Bromeliophila natans* (Steph.) R.M.Schust., J. Hattori Bot. Lab. 75: 226, 1994 (Schuster 1994). Bas.: *Peltolejeunea natans* Steph., Hedwigia 44 (4): 228, 1905 (Stephani 1905a).
- *** ***Cyclolejeunea* A.Evans**, Bull. Torrey Bot. Club 31 (4): 193, 1904 (Evans 1904a).
- *** *Cyclolejeunea accedens* (Gottsche) A.Evans, Bull. Torrey Bot. Club 31 (4): 201, 1904 (Evans 1904a). Bas.: *Lejeunea accedens* Gottsche, Syn. Hepat. 3: 339, 1845 (Gottsche et al. 1845b).
- *** *Cyclolejeunea chitonia* (Taylor) A.Evans, Bull. Torrey Bot. Club 31 (4): 194, 1904 (Evans 1904a). Bas.: *Lejeunea chitonia* Taylor, Nov. Stirp. Pug. 8: 27, 1844 (Lehmann 1844).
- *** *Cyclolejeunea convexistipa* (Lehm. et Lindenb.) A.Evans, Bull. Torrey Bot. Club 31 (4): 198, 1904 (Evans 1904a). Bas.: *Jungermannia convexistipa* Lehm. et Lindenb., Nov. Stirp. Pug. 6: 43, 1834 (Lehmann 1834).
- * *Cyclolejeunea ecuadorensis* Steph., Sp. Hepat. (Stephani) 5: 194, 1913 (Stephani 1913a).
- *** *Cyclolejeunea foliorum* (Nees) Grolle, J. Hattori Bot. Lab. 65: 403, 1988 (Grolle 1988c). Bas.: *Lejeunea foliorum* Nees, Syn. Hepat. 3: 326, 1845 (Gottsche et al. 1845b).
- * *Cyclolejeunea integerrima* (Steph.) Steph., Sp. Hepat. (Stephani) 5: 195, 1913 (Stephani 1913a). Bas.: *Odontolejeunea integerrima* Steph., Hedwigia 44 (4): 227, 1905 (Stephani 1905a).
- *** *Cyclolejeunea luteola* (Spruce) Grolle, Wiss. Z. Friedrich-Schiller-Univ. Jena, Math.-Naturwiss. Reihe 33: 761, 1984 (Grolle 1984b). Bas.: *Lejeunea luteola* Spruce, Trans. & Proc. Bot. Soc. Edinburgh 15: 205, 1884 (Spruce 1884).
- *** *Cyclolejeunea peruviana* (Lehm. et Lindenb.) A.Evans, Bull. Torrey Bot. Club 31 (4): 196, 1904 (Evans 1904a). Bas.: *Jungermannia peruviana* Lehm. et Lindenb., Nov. Stirp. Pug. 5: 18, 1833 (Lehmann 1833).
- * *Cyclolejeunea spectabilis* Steph., Sp. Hepat. (Stephani) 5: 193, 1913 (Stephani 1913a).
- *** ***Prionolejeunea* (Spruce) Schiffn.**, Hepat. (Engl.-Prantl): 127, 1893 (Schiffner 1893b). Bas.: *Lejeunea* subg. *Prionolejeunea* Spruce, Trans. & Proc. Bot. Soc. Edinburgh 15: 152, 1884 (Spruce 1884).
- *** *Prionolejeunea aemula* (Gottsche) A.Evans, Bull. Torrey Bot. Club 31 (4): 219, 1904 (Evans 1904a). Bas.: *Lejeunea aemula* Gottsche, Syn. Hepat. 3: 338, 1845 (Gottsche et al. 1845b).
- *** *Prionolejeunea ampliretis* Herzog, Feddes Repert. Spec. Nov. Regni Veg. 57 (1/2): 178, 1955 (Herzog 1955).
- *** *Prionolejeunea arguta* (Nees) Steph., Sp. Hepat. (Stephani) 5: 204, 1913 (Stephani 1913a). Bas.: *Lejeunea arguta* Nees, Syn. Hepat. 3: 338, 1845 (Gottsche et al. 1845b).
- *** *Prionolejeunea decora* (Taylor) Steph., Sp. Hepat. (Stephani) 5: 207, 1913 (Stephani 1913a). Bas.: *Lejeunea decora* Taylor, London J. Bot. 5: 393, 1846 (Taylor 1846b).
- *** *Prionolejeunea denticulata* (F.Weber) Schiffn., Hepat. (Engl.-Prantl): 127, 1893 (Schiffner 1893b). Bas.: *Jungermannia denticulata* F.Weber, Hist. Musc. Hepat. Prodr.: 30, 1815 (Weber 1815).

- *** *Prionolejeunea diversitexta* (Hampe et Gottsche) Steph., Sp. Hepat. (Stephani) 5: 209, 1913 (Stephani 1913a). Bas.: *Lejeunea diversitexta* Hampe et Gottsche, *Linnaea* 25 (3): 357, 1852 [1853] (Hampe and Gottsche 1852).
- *** *Prionolejeunea exauriculata* A.Evans, Bull. Torrey Bot. Club 31 (4): 223, 1904 (Evans 1904a).
- *** *Prionolejeunea galliotii* Steph., Sp. Hepat. (Stephani) 6: 388, 1923 (Stephani 1923).
- *** *Prionolejeunea grata* (Gottsche) Schiffn., Hepat. (Engl.-Prantl): 127, 1893 (Schiffner 1893b). Bas.: *Lejeunea grata* Gottsche, *Abh. Naturwiss. Vereins Bremen* 7: 359, 1882 (Gottsche 1882).
- *** *Prionolejeunea grollei* Ilk.-Borg. et Schäf.-Verw., *Cryptog. Bryol.* 26 (1): 29, 2005 (Ilkiu-Borges and Schäfer-Verwimp 2005).
- *** *Prionolejeunea guadalupensis* (Lindenb.) Steph., Sp. Hepat. (Stephani) 5: 211, 1913 (Stephani 1913a). Bas.: *Lejeunea guadalupensis* Lindenb., *Syn. Hepat.* 3: 340, 1845 (Gottsche et al. 1845b).
- *** *Prionolejeunea limpida* Herzog, *Hedwigia* 67 (6): 252, 1927 (Herzog 1927).
- *** *Prionolejeunea magnistipula* Herzog, *Feddes Repert. Spec. Nov. Regni Veg.* 57 (1/2): 176, 1955 (Herzog 1955).
- *** *Prionolejeunea meissneri* (Gottsche) Steph., Sp. Hepat. (Stephani) 5: 212, 1913 (Stephani 1913a). Bas.: *Lejeunea meissneri* Gottsche, *Syn. Hepat.* 3: 340, 1845 (Gottsche et al. 1845b).
- *** *Prionolejeunea mucronata* (Sande Lac.) Steph., *Hedwigia* 35 (3): 119, 1896 (Stephani 1896b). Bas.: *Lejeunea mucronata* Sande Lac., *Syn. hepat. jav.*: 106, 1856 [1857] (Sande Lacoste 1856b).
- *** *Prionolejeunea muricatoserrulata* (Spruce) Steph., Sp. Hepat. (Stephani) 5: 223, 1913 (Stephani 1913a). Bas.: *Lejeunea muricatoserrulata* Spruce, *Trans. & Proc. Bot. Soc. Edinburgh* 15: 155, 1884 (Spruce 1884).
- *** *Prionolejeunea principensis* Vanden Berghen, *Rev. Bryol. Lichénol.* 29 (1/2): 65, 1960 (Vanden Berghen 1960a).
- *** *Prionolejeunea recurvula* (Spruce) Steph., Sp. Hepat. (Stephani) 5: 224, 1913 (Stephani 1913a). Bas.: *Lejeunea recurvula* Spruce, *Trans. & Proc. Bot. Soc. Edinburgh* 15: 155, 1884 (Spruce 1884).
- *** *Prionolejeunea scaberula* (Spruce) Steph., Sp. Hepat. (Stephani) 5: 214, 1913 (Stephani 1913a). Bas.: *Lejeunea scaberula* Spruce, *Trans. & Proc. Bot. Soc. Edinburgh* 15: 159, 1884 (Spruce 1884).
- *** *Prionolejeunea schlimiana* (Gottsche) Steph., Sp. Hepat. (Stephani) 5: 214, 1913 (Stephani 1913a). Bas.: *Lejeunea schlimiana* Gottsche, *Ann. Sci. Nat. Bot. (sér. 5)* 1: 154, 1864 (Gottsche 1864).
- *** *Prionolejeunea trachyodes* (Spruce) Steph., Sp. Hepat. (Stephani) 5: 215, 1913 (Stephani 1913a). Bas.: *Lejeunea trachyodes* Spruce, *J. Linn. Soc., Bot.* 30 (210): 338, 1895 (Gepp 1895b).

Excluded from the genus

- * *Prionolejeunea corbisieri* Pearson, Natuurw. Tijdschr. 4 (5/6): 128, 1922 (Pearson 1922a).²⁹⁷
- * *Prionolejeunea maculata* Herzog, Feddes Repert. Spec. Nov. Regni Veg. 57 (1/2): 180, 1955 (Herzog 1955).²⁹⁸

- ** subtrib. *Drepanolejeuneinae* Gradst.

- ** *Capillolejeunea* S.W.Arnell, Svensk Bot. Tidskr. 59 (1): 69, 1965 (Arnell 1965).
- ** *Capillolejeunea geisslerae* (Pócs) R.L.Zhu, Qiong He, Y.M.Wei et Pócs, Phytotaxa 175 (3): 167, 2014 (He et al. 2014a). Bas.: *Drepanolejeunea geisslerae* Pócs, Candollea 56 (1): 70, 2001 (Pócs 2001).
- ** *Capillolejeunea mascarena* S.W.Arnell, Svensk Bot. Tidskr. 59 (1): 69, 1965 (Arnell 1965).

- *** *Drepanolejeunea* (Spruce) Steph., Hedwigia 30 (5): 209, 1891 (Stephani 1891a). Bas.: *Lejeunea* subg. *Drepanolejeunea* Spruce, Trans. & Proc. Bot. Soc. Edinburgh 15: 186, 1884 (Spruce 1884).

- ** subg. *Acantholejeunea* R.M.Schust., Beih. Nova Hedwigia 9: 115, 1963 (Schuster 1963a).
- ** *Drepanolejeunea dentistipula* Steph., Sp. Hepat. (Stephani) 5: 343, 1913 (Stephani 1913a).
- ** *Drepanolejeunea spinistipula* Herzog, Svensk Bot. Tidskr. 42 (3): 238, 1948 (Herzog 1948).

- *** subg. *Drepanolejeunea*
- *** *Drepanolejeunea aculeata* Bischl., Rev. Bryol. Lichénol. 33 (1/2): 68, 1964 (Bischler 1964).
- ** *Drepanolejeunea anderssonii* (Ångstr.) A.Evans, Trans. Connecticut Acad. Arts 10 (8): 429, 1900 (Evans 1900a). Bas.: *Lejeunea anderssonii* Ångstr., Öfvers. Kongl. Vetensk.-Akad. Förh. 29 (4): 24, 1872 (Ångström 1872).
- *** *Drepanolejeunea andina* Herzog, Svensk Bot. Tidskr. 51 (1): 196, 1957 (Herzog 1957a).
- *** *Drepanolejeunea angustifolia* (Mitt.) Grolle, J. Jap. Bot. 40 (7): 206, 1965 (Grolle 1965d). Bas.: *Lejeunea angustifolia* Mitt., J. Proc. Linn. Soc., Bot. 5 (18): 116, 1860 [1861] (Mitten 1860c).
- *** *Drepanolejeunea ankasica* E.W.Jones, Bull. Brit. Mus. (Nat. Hist.), Bot. 11 (3): 245, 1983 (Jones and Harrington 1983).

297 *Prionolejeunea corbisieri* is a *Cheilolejeunea* species (Ilkiu-Borges 2006).

298 *Prionolejeunea maculata* is a *Cyclolejeunea* species (Ilkiu-Borges 2006).

- *** *Drepanolejeunea anoplantha* (Spruce) Steph., Sp. Hepat. (Stephani) 5: 325, 1913 (Stephani 1913a). Bas.: *Lejeunea anoplantha* Spruce, Trans. & Proc. Bot. Soc. Edinburgh 15: 189, 1884 (Spruce 1884).
- *** *Drepanolejeunea appalachiana* R.M.Schust., J. Elisha Mitchell Sci. Soc. 83 (4): 219, 1967 (Schuster 1967a).
- *** *Drepanolejeunea araucariae* Steph., Hedwigia 35 (3): 80, 1896 (Stephani 1896b).
- ** *Drepanolejeunea araucariae* var. *chilensis* Herzog, Acta Horti Gotob. 15: 161, 1943 (Herzog 1943a).
- ** *Drepanolejeunea aucklandica* Steph., Sp. Hepat. (Stephani) 5: 358, 1913 (Stephani 1913a).
- *** *Drepanolejeunea aurita* Bischl., Rev. Bryol. Lichénol. 33 (1/2): 146, 1964 (Bischler 1964).
- ** *Drepanolejeunea bakeri* Herzog, Ann. Bryol. 3: 148, 1930 (Herzog 1930b).
- *** *Drepanolejeunea bidens* (Prantl) A.Evans, Bull. Torrey Bot. Club 30 (1): 29, 1903 (Evans 1903b). Bas.: *Lejeunea bidens* Prantl, Hedwigia 29: xiv, 1890 (Prantl 1890).
- *** *Drepanolejeunea biocellata* A.Evans, Bull. Torrey Bot. Club 30 (1): 22, 1903 (Evans 1903b).
- ** *Drepanolejeunea blumei* Steph., Hedwigia 35 (3): 81, 1896 (Stephani 1896b).
- ** *Drepanolejeunea brunnea* Mizut., J. Hattori Bot. Lab. 33: 231, 1970 (Mizutani 1970).
- ** *Drepanolejeunea caledonica* Steph., Sp. Hepat. (Stephani) 5: 342, 1913 (Stephani 1913a).
- *** *Drepanolejeunea campanulata* (Spruce) Steph., Sp. Hepat. (Stephani) 5: 328, 1913 (Stephani 1913a). Bas.: *Lejeunea campanulata* Spruce, Trans. & Proc. Bot. Soc. Edinburgh 15: 192, 1884 (Spruce 1884).
- ** *Drepanolejeunea canceroides* H.A.Mill. et Bonner, Beih. Nova Hedwigia 11: 53, 1963 (Miller et al. 1963).
- ** *Drepanolejeunea capulata* (Taylor) J.B.Jack et Steph., Hedwigia 31 (1): 13, 1892 (Jack and Stephani 1892). Bas.: *Lejeunea capulata* Taylor, London J. Bot. 5: 394, 1846 (Taylor 1846b).
- ** *Drepanolejeunea capulata* var. *flagellifera* S.W.Arnell, Österr. Akad. Wiss., Math.-Naturwiss. Kl., Denkschr. 111: 100, 1964 (Schiffner and Arnell 1964).
- ** *Drepanolejeunea ciliata* Mizut., J. Hattori Bot. Lab. 33: 232, 1970 (Mizutani 1970).
- *** *Drepanolejeunea crassiretis* A.Evans, Bull. Torrey Bot. Club 30 (1): 25, 1903 (Evans 1903b).
- *** *Drepanolejeunea crucianella* (Taylor) A.Evans, Bull. Torrey Bot. Club 30 (1): 33, 1903 (Evans 1903b). Bas.: *Lejeunea crucianella* Taylor, London J. Bot. 5: 393, 1846 (Taylor 1846b).
- *** *Drepanolejeunea cultrella* (Mitt.) Steph., Sp. Hepat. (Stephani) 5: 324, 1913 (Stephani 1913a). Bas.: *Lejeunea cultrella* Mitt., J. Proc. Linn. Soc., Bot. 7 (27): 168, 1863 (Mitten 1863).
- ** *Drepanolejeunea cutervoensis* (Loitl.) Grolle, J. Hattori Bot. Lab. 69: 186, 1991 (Grolle 1991). Bas.: *Lejeunea cutervoensis* Loitl., Diagn. pl. nov.: 21, 1894 (Loitlesberger 1894).

- ** *Drepanolejeunea decurviloba* Steph., Sp. Hepat. (Stephani) 6: 397, 1923 (Stephani 1923).
- * *Drepanolejeunea deslooveri* Vanden Berghen, Bull. Jard. Bot. Natl. Belg. 47 (1/2): 210, 1977 (Vanden Berghen 1977).²⁹⁹
- * *Drepanolejeunea dissitifolia* A.Evans, Bull. Torrey Bot. Club 30 (1): 28, 1903 (Evans 1903b).
- ** *Drepanolejeunea elegans* Herzog, Ann. Bryol. 9: 128, 1936 [1937] (Herzog 1936a).
- ** *Drepanolejeunea erecta* (Steph.) Mizut., J. Hattori Bot. Lab. 40: 442, 1976 (Mizutani 1976b). Bas.: *Leptolejeunea erecta* Steph., Bull. Soc. Roy. Bot. Belgique 38 (1): 44, 1899 (Stephani 1899h).
- ** *Drepanolejeunea evansii* Bischl. ex L.Söderstr., A.Hagborg et von Konrat, Phytotaxa 65: 47, 2012 (Söderström et al. 2012c). Based on: *Drepanolejeunea evansii* Bischl., Rev. Bryol. Lichénol. 33 (1/2): 75, 1964 (Bischler 1964), *nom. inval.*
- *** *Drepanolejeunea fragilis* Bischl. ex L.Söderstr., A.Hagborg et von Konrat, Phytotaxa 65: 47, 2012 (Söderström et al. 2012c). Based on: *Drepanolejeunea fragilis* Bischl., Rev. Bryol. Lichénol. 33 (1/2): 123, 1964 (Bischler 1964), *nom. inval.*
- ** *Drepanolejeunea fulfordiae* L.Söderstr., Phytotaxa 208 (1): 98, 2015 (Pócs et al. 2015a). *Nom. nov. pro Drepanolejeunea papillosa* Fulford, Mem. New York Bot. Gard. 23: 843, 1972 (Fulford 1972), *nom. illeg.*
- *** *Drepanolejeunea granatensis* (Prantl) Bischl., Rev. Bryol. Lichénol. 33 (1/2): 150, 1964 (Bischler 1964). Bas.: *Lejeunea granatensis* Prantl, Hedwigia 31: xvi, 1892 (Prantl 1892).
- ** *Drepanolejeunea grandis* Herzog, Ann. Bryol. 12: 113, 1939 (Herzog 1939a).
- *** *Drepanolejeunea grollei* M.E.Reiner et Schäf.-Verw., Candollea 51 (2): 475, 1996 (Reiner-Drehwald and Schäfer-Verwimp 1996).
- ** *Drepanolejeunea grossidens* Steph., Sp. Hepat. (Stephani) 5: 358, 1913 (Stephani 1913a). Based on: *Drepanolejeunea grossidens* Steph., Hedwigia 28 (3): 168, 1889 (Stephani 1889d), *nom. inval.*
- *** *Drepanolejeunea hamatifolia* (Hook.) Schiffn., Hepat. (Engl.-Prantl): 126, 1893 (Schiffner 1893b). Bas.: *Jungermannia hamatifolia* Hook., Brit. Jungermann.: tab. 51, 1813 (Hooker 1813).
- ** *Drepanolejeunea hamulata* Steph., Sp. Hepat. (Stephani) 5: 331, 1913 (Stephani 1913a).
- *** *Drepanolejeunea helenae* Pócs, Cryptog. Bryol. Lichénol. 18 (3): 198, 1997 (Pócs 1997a).
- ** *Drepanolejeunea herzogii* R.L.Zhu et M.L.So, Beih. Nova Hedwigia 121: 181, 2001 (Zhu and So 2001). *Nom. nov. pro Strepsilejeunea ocellata* Herzog, Memoranda Soc. Fauna Fl. Fennica 26: 57, 1950 [1951] (Herzog 1950b).

299 *Drepanolejeunea deslooveri* was treated as conspecific with *Drepanolejeunea hamatifolia* by Tixier (1995b) and accepted uncritically as such by Wigginton and Grolle (1996) and Wigginton (2002). However, no published supporting evidence for the synonymy has been found, and it was therefore reinstated pending further studies (Wigginton 2009).

- *** *Drepanolejeunea inchoata* (C.F.W.Meissn.) Steph., Primit. fl. costar.: 115, 1892 [1893] (Stephani 1892e). Bas.: *Jungermannia inchoata* C.F.W.Meissn., Nov. Stirp. Pug. 5: 19, 1833 (Lehmann 1833).
- ** *Drepanolejeunea inchoata* var. *palmicola* Pócs, Acta Bot. Hung. 51 (3/4): 381, 2009 (Schäfer-Verwimp and Pócs 2009).
- ** *Drepanolejeunea inchoata* var. *roraïmae* (Steph. ex Zwickel) Bischl., Rev. Bryol. Lichénol. 33 (1/2): 48, 1964 (Bischler 1964). Bas.: *Drepanolejeunea roraïmae* Steph. ex Zwickel, Ann. Bryol. 6: 121, 1933 (Zwickel 1933).
- *** *Drepanolejeunea infundibulata* (Spruce) A.Evans, Bull. Torrey Bot. Club 30 (1): 35, 1903 (Evans 1903b). Bas.: *Lejeunea infundibulata* Spruce, Trans. & Proc. Bot. Soc. Edinburgh 15: 191, 1884 (Spruce 1884).
- *** *Drepanolejeunea integribracteata* Bischl., Rev. Bryol. Lichénol. 33 (1/2): 142, 1964 (Bischler 1964).
- ** *Drepanolejeunea laevis* (Mitt.) Steph., Sp. Hepat. (Stephani) 5: 357, 1913 (Stephani 1913a). Bas.: *Lejeunea laevis* Mitt., Fl. vit.: 416, 1871 [1873] (Mitten 1871).
- * *Drepanolejeunea lancifolia* (Gottsche) J.B.Jack et Steph., Hedwigia 31 (1): 13, 1892 (Jack and Stephani 1892). Bas.: *Lejeunea lancifolia* Gottsche, Ann. Sci. Nat. Bot. (sér. 5) 1: 155, 1864 (Gottsche 1864).³⁰⁰
- *** *Drepanolejeunea lichenicola* (Spruce) Steph., Sp. Hepat. (Stephani) 5: 335, 1913 (Stephani 1913a). Bas.: *Lejeunea lichenicola* Spruce, Trans. & Proc. Bot. Soc. Edinburgh 15: 191, 1884 (Spruce 1884).
- ** *Drepanolejeunea longii* Grolle et R.L.Zhu, Ann. Bot. Fenn. 36 (2): 115, 1999 (Grolle and Zhu 1999).
- ** *Drepanolejeunea macrodonta* (Mitt.) Steph., Sp. Hepat. (Stephani) 5: 357, 1913 (Stephani 1913a). Bas.: *Lejeunea macrodonta* Mitt., J. Proc. Linn. Soc., Bot. 5 (18): 116, 1860 [1861] (Mitten 1860c).
- ** *Drepanolejeunea mawtmiana* Ajit P.Singh et V.Nath, Hepat. Khasi Jaintia Hills: E. Himal.: 251, 2007 (Singh and Nath 2007b).
- ** *Drepanolejeunea microcarpa* Pearson, J. Linn. Soc., Bot. 46 (305): 36, 1922 (Pearson 1922b).
- ** *Drepanolejeunea moluccensis* Herzog, Ann. Bryol. 7: 88, 1934 (Herzog 1934b).
- *** *Drepanolejeunea mosenii* (Steph.) Bischl., Rev. Bryol. Lichénol. 35 (1/4): 118, 1967 [1968] (Bischler 1967). Bas.: *Leptolejeunea mosenii* Steph., Sp. Hepat. (Stephani) 5: 372, 1913 (Stephani 1913a).
- * *Drepanolejeunea obliqua* Steph., Hedwigia 35 (3): 82, 1896 (Stephani 1896b).³⁰¹
- ** *Drepanolejeunea obtriangulata* T.Kodama, J. Hattori Bot. Lab. 41: 381, 1976 (Kodama 1976).

300 *Drepanolejeunea lancifolia* resembles *Drepanolejeunea bidens* and *Drepanolejeunea araucariae*, but the type material has not been found (Bischler 1964).

301 *Drepanolejeunea obliqua* is possibly conspecific with *Drepanolejeunea ternatensis* (Söderström et al. 2010a).

- ** *Drepanolejeunea obtusifolia* T.Yamag., J. Jap. Bot. 59 (11): 332, 1984 (Yamaguchi 1984).
- *** *Drepanolejeunea orthophylla* (Nees et Mont.) Bischl., Rev. Bryol. Lichénol. 35 (1/4): 102, 1967 [1968] (Bischler 1967). Bas.: *Lejeunea orthophylla* Nees et Mont., Ann. Sci. Nat. Bot. (sér. 2) 19: 265, 1843 (Montagne 1843).
- *** *Drepanolejeunea palmifolia* (Nees) Schiffn., Hepat. (Engl.-Prantl): 126, 1893 (Schiffner 1893b). Bas.: *Jungermannia palmifolia* Nees, Fl. Bras. (Martius) 1 (1): 366, 1833 (Nees 1833a).
- *** *Drepanolejeunea pentadactyla* (Mont.) Steph., Sp. Hepat. (Stephani) 5: 357, 1913 (Stephani 1913a). Bas.: *Lejeunea pentadactyla* Mont., Ann. Sci. Nat. Bot. (sér. 3) 10: 113, 1848 (Montagne 1848).
- ** *Drepanolejeunea perissodonta* (Spruce) Bischl., Rev. Bryol. Lichénol. 33 (1/2): 73, 1964 (Bischler 1964). Bas.: *Lejeunea inchoata* var. *perissodonta* Spruce, J. Linn. Soc., Bot. 30 (210): 340, 1895 (Gepp 1895b).
- *** *Drepanolejeunea physifolia* (Gottsche) Pearson, Forh. Vidensk.-Selsk. Kristiania 1892 (8): 8, 1892 (Pearson 1892). Bas.: *Lejeunea physifolia* Gottsche, Abh. Naturwiss. Vereins Bremen 7: 357, 1882 (Gottsche 1882).
- ** *Drepanolejeunea pinnatiloba* Schiffn., Bot. Jahrb. Syst. 23 (5): 591, 1897 (Schiffner 1897).
- ** *Drepanolejeunea pleiodictya* Herzog, Ann. Bryol. 7: 89, 1934 (Herzog 1934b).
- ** *Drepanolejeunea propagulifera* Herzog, Mitt. Inst. Allg. Bot. Hamburg 7 (3): 204, 1931 (Herzog 1931a).
- ** *Drepanolejeunea pseudoneura* (A.Evans) Grolle, J. Hattori Bot. Lab. 65: 405, 1988 (Grolle 1988c). Bas.: *Harpalejeunea pseudoneura* A.Evans, Trans. Connecticut Acad. Arts 10 (8): 427, 1900 (Evans 1900a).
- ** *Drepanolejeunea pterocalyx* (Herzog) Bischl., Rev. Bryol. Lichénol. 35 (1/4): 114, 1967 [1968] (Bischler 1967). Bas.: *Leptolejeunea pterocalyx* Herzog, Feddes Rept. Spec. Nov. Regni Veg. 57 (1/2): 187, 1955 (Herzog 1955).
- ** *Drepanolejeunea pungens* Bischl., Rev. Bryol. Lichénol. 33 (1/2): 104, 1964 (Bischler 1964).
- ** *Drepanolejeunea ramentiflora* Steph., Sp. Hepat. (Stephani) 5: 338, 1913 (Stephani 1913a).
- * *Drepanolejeunea ruandensis* Vanden Berghen, Bull. Soc. Roy. Bot. Belgique 93: 63, 1961 (Vanden Berghen 1961).³⁰²
- *** *Drepanolejeunea senticosa* Bischl., Rev. Bryol. Lichénol. 33 (1/2): 96, 1964 (Bischler 1964).
- ** *Drepanolejeunea sikkimensis* (Udar et U.S.Awasthi) Grolle, J. Hattori Bot. Lab. 55: 503, 1984 (Grolle 1984a). Bas.: *Leptolejeunea sikkimensis* Udar et U.S.Awasthi, Misc. Bryol. Lichenol. 8 (6): 115, 1979 (Udar and Awasthi 1979).

302 *Drepanolejeunea ruandensis* is conspecific with *Drepanolejeunea cultrella* in Vanden Berghen (1972a), but it was accepted by Tixier (1995b) and Wigginton and Grolle (1996).

- ** *Drepanolejeunea spinosa* Herzog, Feddes Repert. Spec. Nov. Regni Veg. 57 (1/2): 185, 1955 (Herzog 1955).
- ** *Drepanolejeunea spinosocornuta* Steph., Sp. Hepat. (Stephani) 5: 351, 1913 (Stephani 1913a).
- * *Drepanolejeunea subdissitifolia* Herzog, Memoranda Soc. Fauna Fl. Fennica 25: 65, 1950 (Herzog 1950c).
- ** *Drepanolejeunea submuricata* R.M.Schust., Phytotaxa 208 (1): 98, 2015 (Pócs et al. 2015a). Based on: *Drepanolejeunea submuricata* R.M.Schust., Nova Hedwigia 62 (1/2): 34, 1996 (Schuster 1996c), *nom. inval.*
- ** *Drepanolejeunea subquadrata* (Mitt.) Steph., Bot. Jahrb. Syst. 23 (1/2, 3): 311, 1896 (Stephani 1896a). Bas.: *Lejeunea subquadrata* Mitt., Fl. vit.: 416, 1871 [1873] (Mitten 1871).
- ** *Drepanolejeunea subvittata* (Herzog) Grolle, J. Hattori Bot. Lab. 69: 186, 1991 (Grolle 1991). Bas.: *Harpalejeunea subvittata* Herzog, Svensk Bot. Tidskr. 51 (1): 195, 1957 (Herzog 1957a).
- * *Drepanolejeunea tenax* K.I.Goebel, Ann. Jard. Bot. Buitenzorg 39: 15, 1928 (Goebel 1928).
- ** *Drepanolejeunea tenera* K.I.Goebel, Ann. Jard. Bot. Buitenzorg 39: 20, 1928 (Goebel 1928).³⁰³
- * *Drepanolejeunea tenera* var. *litoceras* Herzog, Ann. Bryol. 7: 85, 1934 (Herzog 1934b).
- *** *Drepanolejeunea ternatensis* (Gottsche) Schiffn., Hepat. (Engl.-Prantl): 126, 1893 (Schiffner 1893b). Bas.: *Lejeunea ternatensis* Gottsche, Syn. Hepat. 3: 346, 1845 (Gottsche et al. 1845b).
- ** *Drepanolejeunea teysmannii* (Gottsche) Steph., Hedwigia 35 (3): 84, 1896 (Stephani 1896b). Bas.: *Lejeunea teysmannii* Gottsche, Abh. Naturwiss. Vereins Bremen 7: 360, 1882 (Gottsche 1882).
- ** *Drepanolejeunea tridactyla* (Gottsche) Steph., Sp. Hepat. (Stephani) 5: 354, 1913 (Stephani 1913a). Bas.: *Lejeunea tridactyla* Gottsche, Syn. Hepat. 3: 347, 1845 (Gottsche et al. 1845b).
- *** *Drepanolejeunea trigonophylla* Steph., Hedwigia 35 (3): 85, 1896 (Stephani 1896b).
- ** *Drepanolejeunea tristaniana* S.W.Arnell, Results Norweg. Sci. Exped. Tristan da Cunha 42: 7, 1958 (Arnell 1958b).
- ** *Drepanolejeunea tuyamae* S.Hatt., Bot. Mag. (Tokyo) 64 (755/756): 116, 1951 (Hattori 1951c).
- ** *Drepanolejeunea ualanensis* Inoue et H.A.Mill., Bull. Natl. Sci. Mus. Tokyo (n.ser.) 8 (2): 148, 1965 (Inoue and Miller 1965).
- ** *Drepanolejeunea ungulata* (Steph.) Grolle, J. Hattori Bot. Lab. 69: 187, 1991 (Grolle 1991). Bas.: *Harpalejeunea ungulata* Steph., Sp. Hepat. (Stephani) 5: 264, 1913 (Stephani 1913a).

303 *Drepanolejeunea tenera* is possibly conspecific with *Drepanolejeunea pentadactyla* (Söderström et al. 2010a).

- ** *Drepanolejeunea urceolata* R.M.Schust., *Phytologia* 39 (6): 427, 1978 (Schuster 1978b).
- ** *Drepanolejeunea valiae* Jovet-Ast, *Rev. Bryol. Lichénol.* 18 (1/2): 38, 1949 (Jovet-Ast 1949a).
- ** *Drepanolejeunea vandenberghenii* Buchb. et Eb.Fisch., *J. Bryol.* 26 (4): 273, 2004 (Buchbender and Fischer 2004).
- *** *Drepanolejeunea vesiculosa* (Mitt.) Steph., *Sp. Hepat. (Stephani)* 5: 356, 1913 (Stephani 1913a). Bas.: *Lejeunea vesiculosa* Mitt., *J. Proc. Linn. Soc., Bot.* 5 (18): 116, 1860 [1861] (Mitten 1860c).
- ** *Drepanolejeunea yulensis* Steph., *Sp. Hepat. (Stephani)* 5: 356, 1913 (Stephani 1913a).
- *** **subg. *Kolpolejeunea* Grolle**, *J. Hattori Bot. Lab.* 40: 193, 1976 (Grolle 1976c).
- *** *Drepanolejeunea intermedia* Zwickel, *Ann. Bryol.* 6: 119, 1933 (Zwickel 1933).
- *** *Drepanolejeunea lyrata* Grolle, *J. Hattori Bot. Lab.* 40: 199, 1976 (Grolle 1976c).
- *** *Drepanolejeunea madagascariensis* (Steph.) Grolle, *Lindbergia* 2 (3/4): 232, 1974 (Grolle and Onraedt 1974). Bas.: *Leptolejeunea madagascariensis* Steph., *Sp. Hepat. (Stephani)* 5: 363, 1913 (Stephani 1913a).
- *** *Drepanolejeunea pocsii* Grolle, *J. Hattori Bot. Lab.* 40: 209, 1976 (Grolle 1976c).
- ** *Drepanolejeunea symoensii* Vanden Berghen et Grolle, *J. Hattori Bot. Lab.* 49: 86, 1981 (Grolle 1981). Based on: *Leptolejeunea symoensii* Vanden Berghen, *Bull. Soc. Roy. Bot. Belgique* 93: 58, 1961 (Vanden Berghen 1961), *nom. inval.*
- ** *Drepanolejeunea symoensii* var. *minor* Tixier, *Trop. Bryol.* 11: 25, 1995 (Tixier 1995b).
- *** *Drepanolejeunea trematodes* (Nees) Bischl., *Rev. Bryol. Lichénol.* 35 (1/4): 125, 1967 [1968] (Bischler 1967). Bas.: *Lejeunea trematodes* Nees, *Ann. Sci. Nat. Bot. (sér. 2)* 5: 63, 1836 (Nees and Montagne 1836).
- ** **subg. *Pristolejeunea* Grolle**, *J. Hattori Bot. Lab.* 40: 193, 1976 (Grolle 1976c).
- ** *Drepanolejeunea actinogyna* Inuthai, R.L.Zhu et Chantanaorr., *Bryologist* 117 (2): 165, 2014 (Inuthai et al. 2014).
- *** *Drepanolejeunea fissicornua* Steph., *Sp. Hepat. (Stephani)* 5: 344, 1913 (Stephani 1913a).
- * *Drepanolejeunea hampeana* Steph., *Sp. Hepat. (Stephani)* 5: 345, 1913 (Stephani 1913a). *Nom. nov. pro Drepanolejeunea hampeana* Steph., *Hedwigia* 29 (2): 70, 1890 (Stephani 1890b), *nom. inval.*
- ** *Drepanolejeunea laciniata* Qiong He et R.L.Zhu, *Cryptog. Bryol.* 33 (3): 292, 2012 (He et al. 2012a).
- *** *Drepanolejeunea levicornua* Steph., *Sp. Hepat. (Stephani)* 5: 347, 1913 (Stephani 1913a).
- * *Drepanolejeunea longicornua* (Herzog) Mizut., *J. Hattori Bot. Lab.* 68: 368, 1990 (Mizutani 1990). Bas.: *Drepanolejeunea levicornua* var. *longicornua* Herzog, *Ann. Bryol.* 3: 142, 1930 (Herzog 1930b).
- * *Drepanolejeunea nymanii* Steph., *Sp. Hepat. (Stephani)* 5: 348, 1913 (Stephani 1913a).

- ** *Drepanolejeunea pulla* (Mitt.) Grolle, J. Hattori Bot. Lab. 46: 349, 1979 (Grolle 1979d). Bas.: *Lejeunea pulla* Mitt., J. Proc. Linn. Soc., Bot. 5 (18): 116, 1860 [1861] (Mitten 1860c).
- * *Drepanolejeunea serricalyx* Herzog, Ann. Bryol. 9: 126, 1936 [1937] (Herzog 1936a).
- *** *Drepanolejeunea thwaitesiana* (Mitt.) Steph., Sp. Hepat. (Stephani) 5: 350, 1913 (Stephani 1913a). Bas.: *Lejeunea thwaitesiana* Mitt., J. Proc. Linn. Soc., Bot. 5 (18): 117, 1860 [1861] (Mitten 1860c).³⁰⁴
- ** *Drepanolejeunea thwaitesiana* var. *zhengii* R.L.Zhu, Beih. Nova Hedwigia 121: 197, 2001 (Zhu and So 2001).
- *** *Drepanolejeunea tricornua* Herzog, Ann. Bryol. 9: 124, 1936 [1937] (Herzog 1936a).
- *** **subg. *Rhaphidolejeunea* (Herzog) Grolle et R.L.Zhu**, Nova Hedwigia 70 (3/4): 376, 2000 (Grolle and Zhu 2000). Bas.: *Rhaphidolejeunea* Herzog, Mitth. Thüring. Bot. Vereins 50: 104, 1943 (Herzog 1943c).
- ** *Drepanolejeunea bidouppensis* Pócs, Cryptog. Bryol. 34 (3): 293, 2013 (Pócs et al. 2013).
- *** *Drepanolejeunea bischlerae* (Grolle) Grolle et R.L.Zhu, Nova Hedwigia 70 (3/4): 391, 2000 (Grolle and Zhu 2000). Bas.: *Rhaphidolejeunea bischlerae* Grolle, J. Hattori Bot. Lab. 38: 653, 1974 (Grolle 1974b).
- *** *Drepanolejeunea commutata* Grolle et R.L.Zhu, Nova Hedwigia 70 (3/4): 377, 2000 (Grolle and Zhu 2000).
- *** *Drepanolejeunea cyclops* (Sande Lac.) Grolle et R.L.Zhu, Nova Hedwigia 70 (3/4): 391, 2000 (Grolle and Zhu 2000). Bas.: *Lejeunea cyclops* Sande Lac., Ann. Mus. Bot. Lugduno-Batavi 1: 310, 1864 (Sande Lacoste 1864).
- *** *Drepanolejeunea fleischeri* (Steph.) Grolle et R.L.Zhu, Nova Hedwigia 70 (3/4): 379, 2000 (Grolle and Zhu 2000). Bas.: *Leptolejeunea fleischeri* Steph., Sp. Hepat. (Stephani) 5: 382, 1913 (Stephani 1913a).
- ** *Drepanolejeunea foliicola* Horik., J. Sci. Hiroshima Univ., Ser. B, Div. 2, Bot. 1: 85, 1932 (Horikawa 1932a).
- ** *Drepanolejeunea longicuris* (Steph.) Grolle et R.L.Zhu, Nova Hedwigia 70 (3/4): 392, 2000 (Grolle and Zhu 2000). Bas.: *Leptolejeunea longicuris* Steph., Hedwigia 35 (3): 106, 1896 (Stephani 1896b).
- *** *Drepanolejeunea polyrhiza* (Nees) Grolle et R.L.Zhu, Nova Hedwigia 70 (3/4): 392, 2000 (Grolle and Zhu 2000). Bas.: *Lejeunea polyrhiza* Nees, Syn. Hepat. 3: 403, 1845 (Gottsche et al. 1845b).
- *** *Drepanolejeunea siamensis* (Bischl.) Grolle et R.L.Zhu, Nova Hedwigia 70 (3/4): 393, 2000 (Grolle and Zhu 2000). Bas.: *Rhaphidolejeunea siamensis* Bischl., Rev. Bryol. Lichénol. 36 (1/2): 86, 1968 [1969] (Bischler 1968).

³⁰⁴ *Drepanolejeunea thwaitesiana* is a species complex also including *Drepanolejeunea hampeana*, *Drepanolejeunea longicornua*, *Drepanolejeunea nymannii* and *Drepanolejeunea serricalyx*.

- *** *Drepanolejeunea spicata* (Steph.) Grolle et R.L.Zhu, *Nova Hedwigia* 70 (3/4): 384, 2000 (Grolle and Zhu 2000). Bas.: *Leptolejeunea spicata* Steph., *Hedwigia* 35 (3): 108, 1896 (Stephani 1896b).
- *** *Drepanolejeunea tibetana* (P.C.Wu et J.S.Lou) Grolle et R.L.Zhu, *Nova Hedwigia* 70 (3/4): 386, 2000 (Grolle and Zhu 2000). Bas.: *Rhaphidolejeunea tibetana* P.C.Wu et J.S.Lou, *Acta Phytotax. Sin.* 16 (4): 102, 1978 (Wu and Lou 1978).
- *** *Drepanolejeunea yunnanensis* (P.C.Chen) Grolle et R.L.Zhu, *Nova Hedwigia* 70 (3/4): 388, 2000 (Grolle and Zhu 2000). Bas.: *Rhaphidolejeunea yunnanensis* P.C.Chen, *Feddes Repert. Spec. Nov. Regni Veg.* 58: 44, 1955 (Chen 1955).

Incertae sedis

- *** *Drepanolejeunea dactylophora* (Nees, Lindenb. et Gottsche) J.B.Jack et Steph., *Hedwigia* 31 (1): 12, 1892 (Jack and Stephani 1892). Bas.: *Lejeunea dactylophora* Nees, Lindenb. et Gottsche, *Observ. bot.*: 473, 1843 (Gottsche et al. 1843).
- *** *Drepanolejeunea dactylophora* var. *submuricata* Herzog, *Ann. Bryol.* 4: 92, 1931 (Herzog 1931b).
- * *Drepanolejeunea devendrae* Sushil K.Singh et M.Dey, *Nelumbo* 54: 20, 2012 (Singh and Dey 2012).
- * *Drepanolejeunea integerrima* Herzog, *Rev. Bryol. Lichénol.* 20 (1/2): 146, 1951 [1952] (Herzog 1951a).³⁰⁵
- ** *Vitalianthus R.M.Schust. et Giacotti*, *Nova Hedwigia* 57 (3/4): 447, 1993 (Schuster and Giacotti 1993).
- *** *Vitalianthus bischlerianus* (K.C.Pôrto et Grolle) R.M.Schust. et Giacotti, *Nova Hedwigia* 57 (3/4): 448, 1993 (Schuster and Giacotti 1993). Bas.: *Drepanolejeunea bischleriana* K.C.Pôrto et Grolle, *Cryptog. Bryol. Lichénol.* 8 (4): 301, 1987 (Pôrto and Grolle 1987).
- ** *Vitalianthus guangxianus* R.L.Zhu, Qiong He et Y.M.Wei, *J. Bryol.* 34 (1): 32, 2012 (He et al. 2012b).

✱ subtrib. *Echinolejeuneinae* Gradst.

- *** *Anoplolejeunea (Spruce) Schiffn.*, *Hepat. (Engl.-Prantl)*: 131, 1893 (Schiffner 1893b). Bas.: *Lejeunea* subg. *Anoplolejeunea* Spruce, *Trans. & Proc. Bot. Soc. Edinburgh* 15: 129, 1884 (Spruce 1884).
- *** *Anoplolejeunea conferta* (C.F.W.Meissn. ex Spreng.) A.Evans, *Bull. Torrey Bot. Club* 35 (4): 175, 1908 (Evans 1908a). Bas.: *Jungermannia conferta* C.F.W.Meissn. ex Spreng. *Syst. Veg. (ed. 16) [Sprengel]* 4 (2): 325, 1827 (Sprengel 1827b).

305 *Drepanolejeunea integerrima* is a *Leptolejeunea* species (Bischler 1964), but it is probably a synonym since she did not transfer it.

- *** *Echinolejeunea* R.M.Schust., Beih. Nova Hedwigia 9: 187, 1963 (Schuster 1963a).
- *** *Echinolejeunea papillata* (Mitt.) R.M.Schust. ex Hamlin, Rec. Domin. Mus. 7: 260, 1972 (Hamlin 1972). Bas.: *Lejeunea papillata* Mitt., Bot. antarct. voy. II (Fl. Nov.-Zel. 2): 158, 1854 (Mitten 1854).
- ** *Kymatolejeunea Grolle*, Wiss. Z. Friedrich-Schiller-Univ. Jena, Math.-Naturwiss. Reihe 32 (6): 1005, 1984 (Grolle 1984c).
- *** *Kymatolejeunea bartlettii* Grolle, Wiss. Z. Friedrich-Schiller-Univ. Jena, Math.-Naturwiss. Reihe 32 (6): 1005, 1984 (Grolle 1984c).
- ** subtrib. *Leiolejeuneinae* Schäf.-Verw. et Heinrichs
- ** *Leiolejeunea* A.Evans, Bull. Torrey Bot. Club 35 (8): 377, 1908 (Evans 1908b).
- *** *Leiolejeunea grandiflora* A.Evans, Bull. Torrey Bot. Club 35 (8): 378, 1908 (Evans 1908b).
- *** subtrib. *Lejeuneinae* Gradst.
- *** *Harpalejeunea* (Spruce) Schiffn., Hepat. (Engl.-Prantl): 126, 1893 (Schiffner 1893b). Bas.: *Lejeunea* subg. *Harpalejeunea* Spruce, Trans. & Proc. Bot. Soc. Edinburgh 15: 164, 1884 (Spruce 1884).
- ** subg. *Cleefolejeunea* Grolle et M.E.Reiner, J. Bryol. 21 (1): 33, 1999 (Grolle and Reiner-Drehwald 1999).
- *** *Harpalejeunea grandis* Grolle et M.E.Reiner, J. Bryol. 21 (1): 32, 1999 (Grolle and Reiner-Drehwald 1999).
- ** subg. *Harpalejeunea*
- * *Harpalejeunea acuta* S.Winkl., Rev. Bryol. Lichénol. 42 (3): 812, 1976 (Winkler 1976).³⁰⁶
- *** *Harpalejeunea ancistrodes* (Spruce) Schiffn., Hepat. (Engl.-Prantl): 127, 1893 (Schiffner 1893b). Bas.: *Lejeunea ancistrodes* Spruce, Trans. & Proc. Bot. Soc. Edinburgh 15: 169, 1884 (Spruce 1884).
- ** *Harpalejeunea buenaventurae* Herzog, Feddes Repert. Spec. Nov. Regni Veg. 57 (1/2): 183, 1955 (Herzog 1955).
- *** *Harpalejeunea cinchonae* (Nees) Schiffn., Hepat. (Engl.-Prantl): 127, 1893 (Schiffner 1893b). Bas.: *Lejeunea cinchonae* Nees, Syn. Hepat. 3: 342, 1845 (Gottsche et al. 1845b).

306 *Harpalejeunea acuta* is possibly conspecific with *Harpalejeunea cinchonae* (Grolle and Reiner-Drehwald 1999).

- ** *Harpalejeunea cinchonae* var. *strigulosa* Herzog, Svensk Bot. Tidskr. 51 (1): 192, 1957 (Herzog 1957a).
- ** *Harpalejeunea decurvicuspis* (Besch. et C.Massal.) P.Syd., Just's Bot. Jahresber. 19: 246, 1894 (Sydow 1894). Bas.: *Lejeunea decurvicuspis* Besch. et C.Massal., Bull. Mens. Soc. Linn. Paris 1 (79): 639, 1886 (Bescherelle and Massalongo 1886).
- ** *Harpalejeunea emarginata* Jovet-Ast, Rev. Bryol. Lichénol. 16 (1/2): 38, 1947 [1948] (Jovet-Ast 1947b).
- ** *Harpalejeunea exocellata* Herzog, Rev. Bryol. Lichénol. 20 (1/2): 144, 1951 [1952] (Herzog 1951a).
- ** *Harpalejeunea grandistipula* R.M.Schust., J. Hattori Bot. Lab. 87: 290, 1999 (Schuster 1999c).
- *** *Harpalejeunea harpaphylla* (Herzog) Bischl., Rev. Bryol. Lichénol. 33 (1/2): 164, 1964 (Bischler 1964). Bas.: *Drepanolejeunea harpaphylla* Herzog, Svensk Bot. Tidskr. 46 (1): 93, 1952 (Herzog 1952e).
- ** *Harpalejeunea herzogii* Jovet-Ast, Feddes Repert. Spec. Nov. Regni Veg. 58: 19, 1955 (Jovet-Ast 1955).
- ** *Harpalejeunea longibracteata* (Spruce) Steph., Sp. Hepat. (Stephani) 5: 254, 1913 (Stephani 1913a). Bas.: *Lejeunea longibracteata* Spruce, Bull. Soc. Bot. France (Congr. Bot.) 36: cciii, 1889 [1890] (Spruce 1889).
- ** *Harpalejeunea marginalis* (Hook.f. et Taylor) Steph., Sp. Hepat. (Stephani) 5: 271, 1913 (Stephani 1913a). Bas.: *Jungermannia marginalis* Hook.f. et Taylor, London J. Bot. 4: 91, 1845 (Hooker and Taylor 1845).
- *** *Harpalejeunea molleri* (Steph.) Grolle, Taxon 38 (1): 89, 1989 (Grolle 1989c). Bas.: *Lejeunea molleri* Steph., Hedwigia 26 (1): 3, 1887 (Stephani 1887).
- ** *Harpalejeunea molleri* subsp. *integra* (R.M.Schust.) Damsh., Ill. Fl. Nord. Liverw. Hornw.: 615, 2002 (Damsholt 2002). Bas.: *Harpalejeunea ovata* subsp. *integra* R.M.Schust., J. Elisha Mitchell Sci. Soc. 83 (4): 199, 1967 (Schuster 1967a).
- *** *Harpalejeunea oxyphylla* (Nees et Mont.) Steph., Sp. Hepat. (Stephani) 5: 255, 1913 (Stephani 1913a). Bas.: *Lejeunea oxyphylla* Nees et Mont., Ann. Sci. Nat. Bot. (sér. 2) 19: 264, 1843 (Montagne 1843).
- *** *Harpalejeunea parasitica* (Hook.f. et Taylor) Steph., Sp. Hepat. (Stephani) 5: 268, 1913 (Stephani 1913a). Bas.: *Jungermannia parasitica* Hook.f. et Taylor, London J. Bot. 3: 477, 1844 (Hooker and Taylor 1844b).
- ** *Harpalejeunea pinaundensis* Grolle, J. Hattori Bot. Lab. 46: 44, 1979 (Grolle 1979a).
- ** *Harpalejeunea reflexula* A.Evans, Bull. Torrey Bot. Club 35 (8): 375, 1908 (Evans 1908b).
- ** *Harpalejeunea scabra* Gradst. et Schäf.-Verw., Cryptog. Bryol. 32 (2): 102, 2011 (Gradstein and Schäfer-Verwimp 2011).
- *** *Harpalejeunea schiffneri* S.W.Arnell, Österr. Akad. Wiss., Math.-Naturwiss. Kl., Denkschr. 111: 102, 1964 (Schiffner and Arnell 1964).
- * *Harpalejeunea solitaria* (Gottsche) Steph., Sp. Hepat. (Stephani) 5: 246, 1913 (Stephani 1913a). Bas.: *Lejeunea solitaria* Gottsche, Abh. Naturwiss. Vereins Bremen 7: 356, 1882 (Gottsche 1882).

- *** *Harpalejeunea stricta* (Lindenb. et Gottsche) Steph., Sp. Hepat. (Stephani) 5: 259, 1913 (Stephani 1913a). Bas.: *Lejeunea stricta* Lindenb. et Gottsche, Syn. Hepat. 5: 756, 1847 (Gottsche et al. 1847).
- ** *Harpalejeunea subacuta* A.Evans, Bull. Torrey Bot. Club 30 (10): 547, 1903 (Evans 1903c).
- * *Harpalejeunea tenuicuspis* (Spruce) Schiffn., Hepat. (Engl.-Prantl): 127, 1893 (Schiffner 1893b). Bas.: *Lejeunea tenuicuspis* Spruce, Trans. & Proc. Bot. Soc. Edinburgh 15: 170, 1884 (Spruce 1884).³⁰⁷
- *** *Harpalejeunea tridens* (Besch. et Spruce) Steph., Sp. Hepat. (Stephani) 5: 263, 1913 (Stephani 1913a). Bas.: *Lejeunea tridens* Besch. et Spruce, Bull. Soc. Bot. France (Congr. Bot.) 36: clxxx, 1889 [1890] (Bescherelle and Spruce 1889).
- ** *Harpalejeunea uncinata* Steph., Hedwigia 35 (3): 97, 1896 (Stephani 1896b).
- * *Harpalejeunea uncinata* var. *setulosa* Herzog, Feddes Repert. Spec. Nov. Regni Veg. 57 (1/2): 183, 1955 (Herzog 1955).

Incertae sedis

- * *Harpalejeunea grossearmata* Steph., Biblioth. Bot. 87 (2): 256, 1916 (Stephani 1916a).³⁰⁸
- * *Harpalejeunea renneri* Herzog, Memoranda Soc. Fauna Fl. Fennica 26: 54, 1950 [1951] (Herzog 1950b).³⁰⁹
- * *Harpalejeunea spruceana* Steph., Biblioth. Bot. 87 (2): 257, 1916 (Stephani 1916a).³¹⁰
- * *Harpalejeunea vitrea* Herzog, Memoranda Soc. Fauna Fl. Fennica 27: 94, 1952 (Herzog 1952c).³¹¹
- ** ***Hattoriolejeunea Mizut.***, J. Hattori Bot. Lab. 61: 303, 1986 [1987] (Mizutani 1986b).
- ** ***Hattoriolejeunea akiyamae*** Mizut., J. Hattori Bot. Lab. 61: 303, 1986 [1987] (Mizutani 1986b).

*** ***Lejeunea* Lib.**, Ann. Gen. Sci. Phys. 6: 373, 1820 (Libert 1820) nom. conserv.³¹²

307 *Harpalejeunea tenuicuspis* is possibly conspecific with *Harpalejeunea oxyphylla* (Gradstein and Costa 2003, Grolle and Reiner-Drehwald 1999).

308 *Harpalejeunea grossearmata* is a *Lejeunea* species (Grolle and Reiner-Drehwald 1999). It was treated as a doubtful taxon by Gradstein et al. (2003).

309 *Harpalejeunea renneri* is a *Lejeunea* species and most likely conspecific with something (Grolle and Reiner-Drehwald 1999).

310 *Harpalejeunea spruceana* is a *Lejeunea* species (non *Lejeunea spruceana* C.Massal. 1885) (Grolle and Reiner-Drehwald 1999). It was treated as a doubtful taxon by Gradstein et al. (2003).

311 *Harpalejeunea vitrea* is a *Lejeunea* species (non *Lejeunea vitrea* Nees, Lindenb. et Gottsche 1843) (Grolle and Reiner-Drehwald 1999).

312 *Lejeunea* is a large genus and its infrageneric classification, which has not been studied in a rigorous manner, needs investigation although Heinrichs et al. (2013) showed two main clades on molecular grounds, provisionally named *Lejeunea* subg. *Lejeunea* and *Lejeunea* subg. *Crossotolejeunea*. However, their morphology is not yet understood. The subgenera listed here are recently accepted ones. *Crossotolejeunea*, *Eulejeunea*, *Hygrolejeunea* and *Taxilejeunea* also belong here, but several taxa have neither

- ** *Lejeunea tunquiniensis* M.E.Reiner et Drehwald, Nova Hedwigia 100 (3/4): 584, 2015 (Reiner-Drehwald 2015).
- ** **subg. *Lejeunea***
- *** *Lejeunea abyssinica* (Gola) Cufod., Phytol. (Horn) 4: 75, 1952 (Cufodontis 1952). Bas.: *Eulejeunea abyssinica* Gola, Ann. Bot. (Rome) 13 (1): 70, 1914 (Gola 1914a).
- *** *Lejeunea acanthogona* Spruce, Trans. & Proc. Bot. Soc. Edinburgh 15: 177, 1884 (Spruce 1884).
- ** *Lejeunea acuminata* (Lehm. et Lindenb.) Lehm., Nov. Stirp. Pug. 7: 22, 1838 (Lehmann 1838). Bas.: *Jungermannia acuminata* Lehm. et Lindenb., Nov. Stirp. Pug. 6: 49, 1834 (Lehmann 1834).
- ** *Lejeunea acuta* Mitt., J. Proc. Linn. Soc., Bot. 7 (27): 167, 1863 (Mitten 1863).
- ** *Lejeunea acutata* (Steph.) Solari, J. Hattori Bot. Lab. 54: 541, 1983 (Solari 1983a). Bas.: *Strepsilejeunea acutata* Steph., Hedwigia 35 (3): 127, 1896 (Stephani 1896b).
- *** *Lejeunea adpressa* Nees, Repert. Pharm. 76: 45, 1842 (von Flotow et al. 1842).³¹³
- *** *Lejeunea aethiopica* E.W.Jones, J. Bryol. 13 (3): 387, 1985 (Jones 1985).
- ** *Lejeunea alaskana* (R.M.Schust. et Steere) Inoue et Steere, J. Hattori Bot. Lab. 44: 330, 1978 (Steere and Inoue 1978). Bas.: *Hygrolejeunea alaskana* R.M.Schust. et Steere, Bull. Torrey Bot. Club 85 (3): 190, 1958 (Schuster and Steere 1958).
- *** *Lejeunea alata* Gottsche, Syn. Hepat. 3: 406, 1845 (Gottsche et al. 1845b).
- ** *Lejeunea alata* var. *patriciae* Pócs, Candollea 56 (1): 72, 2001 (Pócs 2001).
- *** *Lejeunea albescens* (Steph.) Mizut., J. Hattori Bot. Lab. 33: 245, 1970 (Mizutani 1970). Bas.: *Taxilejeunea albescens* Steph., Hedwigia 35 (3): 132, 1896 (Stephani 1896b).
- * *Lejeunea albiflora* Colenso, Trans. & Proc. New Zealand Inst. 21: 72, 1889 (Colenso 1889).
- ** *Lejeunea aloba* Sande Lac., Plagiochila Sandei: 10, 1856 (Sande Lacoste 1856c).
- ** *Lejeunea alobifolia* H.A.Mill., Phytologia 47 (4): 323, 1981 (Miller 1981). *Nom. nov. pro Lejeunea aloba* Steph., Sp. Hepat. (Stephani) 5: 767, 1915 (Stephani 1915b), *nom. illeg.*
- ** *Lejeunea amaniensis* E.W.Jones, J. Bryol. 13 (3): 392, 1985 (Jones 1985).
- ** *Lejeunea ambigua* Lindenb. et Gottsche, Syn. Hepat. 5: 764, 1847 (Gottsche et al. 1847).
- * *Lejeunea amentulifera* Steph., Sp. Hepat. (Stephani) 5: 707, 1915 (Stephani 1915b).
- ** *Lejeunea androgyna* R.M.Schust., Phytologia 45 (5): 432, 1980 (Schuster 1980b).
- * *Lejeunea angulifolia* Mitt., Philos. Trans. 168: 400, 1879 (Mitten 1879).³¹⁴
- *** *Lejeunea angusta* (Lehm. et Lindenb.) Mont., Hist. Phys. Cuba, Bot., Pl. Cell.: 469, 1842 (Montagne 1842a). Bas.: *Jungermannia angusta* Lehm. et Lindenb., Nov. Stirp. Pug. 4: 52, 1832 (Lehmann 1832).

been transferred nor synonymized. They are listed in the "Names in genera not currently accepted" section below.

313 *Lejeunea adpressa* from South America is very similar to the palaeotropical *Lejeunea anisophylla*. The two taxa probably represent a single pantropical species (possibly with two subspecies).

314 *Lejeunea angulifolia* may be conspecific with *Lejeunea cocoes* (Pócs 2011a).

- ** *Lejeunea anisophylla* Mont., Ann. Sci. Nat. Bot. (sér. 2) 19: 263, 1843 (Montagne 1843).
- *** *Lejeunea anomala* Lindenb. et Gottsche, Linnaea 24 (6): 636, 1851 [1852] (Lindenb. et Gottsche 1851a).
- * *Lejeunea antillana* Steph., Hedwigia 27 (11/12): 281, 1888 (Stephani 1888c).
- ** *Lejeunea aphanes* Spruce, J. Bot. 19: 36, 1881 (Spruce 1881b).
- *** *Lejeunea apiculata* Sande Lac., Ned. Kruidk. Arch. 3: 421, 1854 [1855] (Sande Lacoste 1854).
- ** *Lejeunea aquatica* Horik., Sci. Rep. Tōhoku Imp. Univ., Ser. 4, Biol. 5 (4): 643, 1929 [1930] (Horikawa 1929c).
- ** *Lejeunea aquatica* var. *apiculata* S.Hatt., Bull. Tokyo Sci. Mus. 11: 108, 1944 (Hattori 1944d).
- ** *Lejeunea armitii* (Steph.) Steph., Sp. Hepat. (Stephani) 5: 768, 1915 (Stephani 1915b). Bas.: *Eulejeunea armitii* Steph., Hedwigia 28 (3): 169, 1889 (Stephani 1889d).
- * *Lejeunea asperifolia* Steph., Sp. Hepat. (Stephani) 5: 708, 1915 (Stephani 1915b).
- *** *Lejeunea asperrima* Spruce, Trans. & Proc. Bot. Soc. Edinburgh 15: 160, 1884 (Spruce 1884).
- ** *Lejeunea asperula* (Steph.) Mizut., J. Hattori Bot. Lab. 33: 236, 1970 (Mizutani 1970). Bas.: *Taxilejeunea asperula* Steph., Sp. Hepat. (Stephani) 5: 499, 1914 (Stephani 1914b).
- ** *Lejeunea asprella* Spruce, Trans. & Proc. Bot. Soc. Edinburgh 15: 175, 1884 (Spruce 1884).
- * *Lejeunea atheatostipa* Spruce, J. Bot. 33: 83, 1895 (Gepp 1895a).
- ** *Lejeunea barbata* (Herzog) R.L.Zhu et M.J.Lai, Ann. Bot. Fenn. 48 (5): 376, 2011 (Wang et al. 2011). Bas.: *Rectolejeunea barbata* Herzog, J. Hattori Bot. Lab. 14: 49, 1955 (Herzog and Noguchi 1955).
- *** *Lejeunea bermudiana* (A.Evans) R.M.Schust., Hepat. Anthocerotae N. Amer. 4: 1105, 1980 (Schuster 1980c). Bas.: *Crossotolejeunea bermudiana* A.Evans, Bull. Torrey Bot. Club 33 (3): 132, 1906 (Evans 1906c).
- ** *Lejeunea bidentula* Herzog, Symb. Sin. 5: 51, 1930 (Nicholson et al. 1930).
- ** *Lejeunea biformis* Gottsche, Ann. Sci. Nat. Bot. (sér. 5) 1: 162 (68), 1864 (Gottsche 1864).
- ** *Lejeunea blepharogona* Spruce, Trans. & Proc. Bot. Soc. Edinburgh 15: 178, 1884 (Spruce 1884).
- ** *Lejeunea blomquistii* R.M.Schust., J. Elisha Mitchell Sci. Soc. 78 (1): 64, 1962 (Schuster 1962b).
- *** *Lejeunea boliviensis* (Steph.) R.L.Zhu et M.E.Reiner, Bryologist 107 (2): 237, 2004 (Zhu and Reiner-Drehwald 2004). Bas.: *Strepsilejeunea boliviensis* Steph., Biblioth. Bot. 87 (2): 257, 1916 (Stephani 1916a).
- ** *Lejeunea boryana* Mont., Ann. Sci. Nat. Bot. (sér. 2) 9: 47, 1838 (Montagne 1838).
- ** *Lejeunea brenanii* E.W.Jones, J. Bryol. 10 (4): 391, 1979 (Jones 1979).
- *** *Lejeunea calcicola* R.M.Schust., J. Elisha Mitchell Sci. Soc. 73 (2): 404, 1957 (Schuster 1957d).

- ** *Lejeunea calcicola* var. *mexicana* R.M.Schust., J. Elisha Mitchell Sci. Soc. 73 (2): 408, 1957 (Schuster 1957d).
- ** *Lejeunea canariensis* (Steph.) Steph., Sp. Hepat. (Stephani) 5: 802, 1915 (Stephani 1915b). Bas.: *Eulejeunea canariensis* Steph., Mém. Soc. Bot. France 7: 42, 1907 (Pitard and Corbière 1907).
- *** *Lejeunea cancellata* Nees et Mont., Hist. Phys. Cuba, Bot., Pl. Cell.: 472, 1842 (Montagne 1842a).
- ** *Lejeunea cantabrigiensis* E.W.Jones, J. Bryol. 15 (4): 669, 1989 (Jones 1989).
- *** *Lejeunea capensis* Gottsche, Syn. Hepat. 3: 374, 1845 (Gottsche et al. 1845b).
- * *Lejeunea caroliniana* Austin, Bot. Bull. (Hanover) 1 (8): 36, 1876 (Austin 1876a).³¹⁵
- *** *Lejeunea catinulifera* Spruce, Trans. & Proc. Bot. Soc. Edinburgh 15: 233, 1884 (Spruce 1884).
- *** *Lejeunea caulicalyx* (Steph.) M.E.Reiner et Goda, J. Hattori Bot. Lab. 89: 13, 2000 (Reiner-Drehwald and Goda 2000). Bas.: *Crossotolejeunea caulicalyx* Steph., Sp. Hepat. (Stephani) 5: 237, 1913 (Stephani 1913a).
- *** *Lejeunea cavifolia* (Ehrh.) Lindb., Revis. crit. icon.: 43, 1871 (Lindberg 1871). Bas.: *Jungermannia cavifolia* Ehrh., Beitr. Naturk. (Ehrhart) 4: 45, 1789 (Ehrhart 1789).
- ** *Lejeunea caviloba* (Steph.) Besch., J. Bot. (Morot) 12: 140, 1898 (Bescherelle 1898). Bas.: *Eulejeunea caviloba* Steph., Hedwigia 35 (3): 86, 1896 (Stephani 1896b).
- *** *Lejeunea cerina* (Lehm. et Lindenb.) Lehm. et Lindenb., Syn. Hepat. 3: 391, 1845 (Gottsche et al. 1845b). Bas.: *Jungermannia cerina* Lehm. et Lindenb., Nov. Stirp. Pug. 5: 16, 1833 (Lehmann 1833).
- ** *Lejeunea chaishanensis* S.H.Lin, Yushania 9: 7, 1992 (Lin and Yang 1992).
- ** *Lejeunea cladogyna* A.Evans, Amer. J. Bot. 5 (3): 134, 1918 (Evans 1918).
- ** *Lejeunea clavata* Lindenb., Syn. Hepat. 3: 379, 1845 (Gottsche et al. 1845b).
- ** *Lejeunea claviformis* Lindenb. ex Steph., Sp. Hepat. (Stephani) 5: 727, 1915 (Stephani 1915b).
- ** *Lejeunea cochleata* Spruce, Trans. & Proc. Bot. Soc. Edinburgh 15: 273, 1884 (Spruce 1884).
- ** *Lejeunea cocoes* Mitt., J. Proc. Linn. Soc., Bot. 5 (18): 114, 1860 [1861] (Mitten 1860c).
- *** *Lejeunea colensoana* (Steph.) M.A.M.Renner, Austral. Syst. Bot. 23 (6): 455, 2010 (Renner et al. 2010b). Bas.: *Taxilejeunea colensoana* Steph., Hedwigia 35 (3): 132, 1896 (Stephani 1896b).
- ** *Lejeunea compacta* (Steph.) Steph., Sp. Hepat. (Stephani) 5: 771, 1915 (Stephani 1915b). Bas.: *Eulejeunea compacta* Steph., Bull. Herb. Boissier 5 (2): 93, 1897 (Stephani 1897b).
- ** *Lejeunea concinnula* Spruce et Steph., J. Bot. 25: 39, 1887 (Spruce 1887a).
- ** *Lejeunea connatistipula* (Steph.) Steph., Sp. Hepat. (Stephani) 5: 772, 1915 (Stephani 1915b). Bas.: *Eulejeunea connatistipula* Steph., Hedwigia 35 (3): 87, 1896 (Stephani 1896b).

315 *Lejeunea caroliniana* was poorly described and the type specimen so poor that Evans (1902a) could not identify it.

- ** *Lejeunea contracta* Mizut., J. Hattori Bot. Lab. 33: 248, 1970 (Mizutani 1970).
- ** *Lejeunea controversa* Gottsche, Hepat. Eur., Leberm. 56-57: no 556, 1873 (Gottsche and Rabenhorst 1873b).
- ** *Lejeunea convexiloba* M.L.So et R.L.Zhu, Bryologist 101 (1): 137, 1998 (So and Zhu 1998).
- ** *Lejeunea corcovadae* (Steph.) Bischl., Nova Hedwigia 5 (1/2): 406, 1963 (Bischler et al. 1963). Bas.: *Microlejeunea corcovadae* Steph., Sp. Hepat. (Stephani) 5: 820, 1915 (Stephani 1915b).
- ** *Lejeunea cordiflora* Spruce, Trans. & Proc. Bot. Soc. Edinburgh 15: 283, 1884 (Spruce 1884).
- ** *Lejeunea corralensis* A.Evans, Ann. Bryol. 3: 86, 1930 (Evans 1930b).
- *** *Lejeunea corynantha* Spruce, J. Linn. Soc., Bot. 30 (210): 344, 1895 (Gepp 1895b).
- ** *Lejeunea crassiretis* Mitt., Fl. vit.: 414, 1871 [1873] (Mitten 1871).
- *** *Lejeunea cristulata* (Steph.) M.E.Reiner et Goda, J. Hattori Bot. Lab. 89: 21, 2000 (Reiner-Drehwald and Goda 2000). Bas.: *Crossotolejeunea cristulata* Steph., Hedwigia 35 (3): 75, 1896 (Stephani 1896b).
- *** *Lejeunea cristuliflora* (Steph.) M.E.Reiner et Goda, J. Hattori Bot. Lab. 89: 19, 2000 (Reiner-Drehwald and Goda 2000). Bas.: *Crossotolejeunea cristuliflora* Steph., Sp. Hepat. (Stephani) 5: 231, 1913 (Stephani 1913a).
- ** *Lejeunea cuspidistipula* (Steph.) Steph. ex Watts, Proc. Linn. Soc. New South Wales (ser. 2) 27 (108): 493, 1903 (Watts 1903). Bas.: *Eulejeunea cuspidistipula* Steph., Hedwigia 35 (3): 88, 1896 (Stephani 1896b).
- ** *Lejeunea cyanomontana* R.M.Schust., Phytologia 45 (5): 432, 1980 (Schuster 1980b).
- ** *Lejeunea cyanophora* R.M.Schust., J. Hattori Bot. Lab. 26: 246, 1963 (Schuster 1963b).
- ** *Lejeunea cyathearum* E.W.Jones, J. Bryol. 8 (1): 86, 1974 (Jones 1974).
- *** *Lejeunea cyathophora* Mitt., Hooker's J. Bot. Kew Gard. Misc. 3: 359, 1851 (Mitten 1851).
- ** *Lejeunea denticalyx* (Steph.) Steph., Sp. Hepat. (Stephani) 5: 794, 1915 (Stephani 1915b). Bas.: *Eulejeunea denticalyx* Steph., Hedwigia 28 (3): 169, 1889 (Stephani 1889d).
- ** *Lejeunea denticuspis* (Steph.) Mizut., J. Hattori Bot. Lab. 36: 160, 1972 [1973] (Mizutani 1972a). Bas.: *Strepsilejeunea denticuspis* Steph., Hedwigia 35 (3): 129, 1896 (Stephani 1896b).
- ** *Lejeunea denudata* (Pearson) J.J.Engel, Bryologist 78 (3): 361, 1975 (Engel 1975). Bas.: *Eulejeunea denudata* Pearson, J. Linn. Soc., Bot. 46 (305): 39, 1922 (Pearson 1922b).
- *** *Lejeunea deplanata* Nees, Syn. Hepat. 3: 368, 1845 (Gottsche et al. 1845b).
- ** *Lejeunea deplanata* var. *cuspidata* (Steph.) M.E.Reiner, Nova Hedwigia 91 (3/4): 529, 2010 (Reiner-Drehwald 2010). Bas.: *Pycnolejeunea cuspidata* Steph., Sp. Hepat. (Stephani) 5: 605, 1914 (Stephani 1914b).
- ** *Lejeunea diaphana* Spruce, Trans. & Proc. Bot. Soc. Edinburgh 15: 168, 1884 (Spruce 1884).

- ** *Lejeunea dimorpha* T.Kodama, J. Hattori Bot. Lab. 41: 384, 1976 (Kodama 1976).
- ** *Lejeunea dipterocharpa* E.W.Jones, J. Bryol. 7 (1): 44, 1972 (Jones 1972).
- *** *Lejeunea discreta* Lindenb., Syn. Hepat. 3: 361, 1845 (Gottsche et al. 1845b).
- * *Lejeunea disjecta* Spruce, J. Linn. Soc., Bot. 30 (210): 347, 1895 (Gepp 1895b).
- ** *Lejeunea diversicuspis* Spruce, Trans. & Proc. Bot. Soc. Edinburgh 15: 176, 1884 (Spruce 1884).
- ** *Lejeunea drummondii* Taylor, London J. Bot. 5: 400, 1846 (Taylor 1846b).
- ** *Lejeunea ecarinata* (Steph.) J.M.Coult., Barnes et Arthur, Bot. Gaz. 15 (12): 349, 1890 (Coulter et al. 1890). Bas.: *Eulejeunea ecarinata* Steph., Bot. Gaz. 15 (11): 283, 1890 (Stephani 1890c).
- ** *Lejeunea eckloniana* Lindenb., Syn. Hepat. 3: 381, 1845 (Gottsche et al. 1845b).
- ** *Lejeunea eifrigii* Mizut., J. Hattori Bot. Lab. 33: 244, 1970 (Mizutani 1970). *Nom. nov. pro Taxilejeunea acutiloba* Eifrig, Monogr. Stud. Indomal. Art. *Taxilejeunea*: 94, 1937 (Eifrig 1937).
- * *Lejeunea elongella* Gottsche, Ann. Sci. Nat. Bot. (sér. 5) 1: 161, 1864 (Gottsche 1864).
- *** *Lejeunea erostrata* M.E.Reiner et Goda, J. Hattori Bot. Lab. 89: 25, 2000 (Reiner-Drehwald and Goda 2000). *Nom. nov. pro Crossotolejeunea parva* Steph., Sp. Hepat. (Stephani) 5: 241, 1913 (Stephani 1913a).
- *** *Lejeunea exilis* (Reinw., Blume et Nees) Grolle, J. Hattori Bot. Lab. 46: 353, 1979 (Grolle 1979d). Bas.: *Jungermannia exilis* Reinw., Blume et Nees, Nova Acta Phys.-Med. Acad. Caes. Leop.-Carol. Nat. Cur. 12 (1): 227, 1824 [1825] (Reinwardt et al. 1824a).
- ** *Lejeunea exilis* var. *abnormis* (Herzog) G.E.Lee, Polish Bot. J. 58 (1): 61, 2013 (Lee and Gradstein 2013). Bas.: *Byssolejeunea abnormis* Herzog, Hedwigia 80 (1/2): 84, 1941 (Herzog 1941b).
- ** *Lejeunea fernandeziana* S.W.Arnell, Ark. Bot. (n.ser.) 4 (1): 16, 1957 (Arnell 1957b).
- ** *Lejeunea firma* Mitt., J. Proc. Linn. Soc., Bot. 5 (18): 112, 1860 [1861] (Mitten 1860c).
- ** *Lejeunea fissistipula* (Steph.) Steph., Sp. Hepat. (Stephani) 5: 775, 1915 (Stephani 1915b). Bas.: *Eulejeunea fissistipula* Steph., Hedwigia 35 (3): 88, 1896 (Stephani 1896b).
- ** *Lejeunea flagellaris* Spruce, Trans. & Proc. Bot. Soc. Edinburgh 15: 273, 1884 (Spruce 1884).
- *** *Lejeunea flava* (Sw.) Nees, Naturgesch. Eur. Leberm. 3: 277, 1838 (Nees 1838b). Bas.: *Jungermannia flava* Sw., Prodr. (Swartz): 144, 1788 (Swartz 1788).³¹⁶
- ** *Lejeunea flava* subsp. *moorei* (Lindb.) R.M.Schust., J. Elisha Mitchell Sci. Soc. 73 (1): 161, 1957 (Schuster 1957a). Bas.: *Lejeunea moorei* Lindb., Acta Soc. Sci. Fenn. 10: 487, 1875 (Lindberg 1875).
- ** *Lejeunea flava* subsp. *orientalis* R.M.Schust., J. Elisha Mitchell Sci. Soc. 73 (1): 161, 1957 (Schuster 1957a).

316 *Lejeunea flava* is a species complex also including *Lejeunea grossecristata*.

- ** *Lejeunea flava* var. *pellucida* Lindenb. et Gottsche, *Linnaea* 24 (6): 634, 1851 [1852] (Lindenberg and Gottsche 1851a).
- ** *Lejeunea flava* subsp. *tabularis* (Spreng.) S.W.Arnell, *Hepat. South Africa*: 199, 1963 (Arnell 1963b). Bas.: *Jungermannia tabularis* Spreng. *Syst. Veg.* (ed. 16) [Sprengel] 4 (2): 325, 1827 (Sprengel 1827b).
- *** *Lejeunea flavovirens* Ångstr., *Öfvers. Kongl. Vetensk.-Akad. Förh.* 30 (5): 144, 1873 (Ångström 1873).
- ** *Lejeunea fleischeri* (Steph.) Mizut., *J. Hattori Bot. Lab.* 33: 238, 1970 (Mizutani 1970). Bas.: *Hygrolejeunea fleischeri* Steph., *Sp. Hepat. (Stephani)* 5: 560, 1914 (Stephani 1914b).
- ** *Lejeunea floridana* A.Evans, *Bull. Torrey Bot. Club* 32 (4): 185, 1905 (Evans 1905b).
- *** *Lejeunea fulfordiae* (Jovet-Ast) R.L.Zhu, *Syst. Bot.* 33 (4): 617, 2008 (Zhu and Cheng 2008). Bas.: *Amblyolejeunea fulfordiae* Jovet-Ast, *Rev. Bryol. Lichénol.* 17 (1/4): 25, 1948 [1949] (Jovet-Ast 1948).
- ** *Lejeunea fusagasugana* Gottsche, *Ann. Sci. Nat. Bot. (sér. 5)* 1: 158, 1864 (Gottsche 1864).
- ** *Lejeunea galeata* Spruce, *Trans. & Proc. Bot. Soc. Edinburgh* 15: 172, 1884 (Spruce 1884).
- ** *Lejeunea gayana* Gottsche, *Ann. Sci. Nat. Bot. (sér. 5)* 1: 157, 1864 (Gottsche 1864).
- ** *Lejeunea gibbiloba* (Steph.) H.A.Mill., *Phytologia* 47 (4): 323, 1981 (Miller 1981). Bas.: *Eulejeunea gibbiloba* Steph., *Sp. Hepat. (Stephani)* 6: 418, 1923 (Stephani 1923).
- *** *Lejeunea glaucescens* Gottsche, *Syn. Hepat.* 3: 378, 1845 (Gottsche et al. 1845b).
- ** *Lejeunea glaucescens* var. *acrogyna* R.M.Schust., *J. Elisha Mitchell Sci. Soc.* 73 (2): 400, 1957 (Schuster 1957d).
- * *Lejeunea glaucescens* var. *obsoleta* R.M.Schust., *J. Elisha Mitchell Sci. Soc.* 73 (2): 395, 1957 (Schuster 1957d).
- ** *Lejeunea globosiflora* (Steph.) Steph., *Sp. Hepat. (Stephani)* 5: 795, 1915 (Stephani 1915b). Bas.: *Eulejeunea globosiflora* Steph., *Bih. Kongl. Svenska Vetensk.-Akad. Handl.* 26 (III, 6): 65, 1900 (Stephani 1900b).
- ** *Lejeunea gomphocalyx* Spruce, *Trans. & Proc. Bot. Soc. Edinburgh* 15: 174, 1884 (Spruce 1884).
- ** *Lejeunea gracilicaulis* Spruce, *Mem. Torrey Bot. Club* 1 (3): 126, 1890 (Spruce 1890).
- ** *Lejeunea gracilipes* (Taylor) Spruce, *Trans. & Proc. Bot. Soc. Edinburgh* 15: 213, 1884 (Spruce 1884). Bas.: *Omphalanthus gracilipes* Taylor, *London J. Bot.* 5: 385, 1846 (Taylor 1846b).
- ** *Lejeunea gracilis* Steph., *Sp. Hepat. (Stephani)* 5: 777, 1915 (Stephani 1915b).
- ** *Lejeunea gradsteiniana* Pócs, *Acta Biol. Pl. Agr.* 1: 55, 2010 [2011] (Pócs 2010d). *Nom. nov. pro Ceratolejeunea aberrans* Steph., *Sp. Hepat. (Stephani)* 6: 399, 1923 (Stephani 1923).
- ** *Lejeunea gradsteinii* G.E.Lee, *Damanhuri et Latiff, Acta Biol. Pl. Agr.* 1: 29, 2010 [2011] (Lee et al. 2010).
- * *Lejeunea grossecristata* (Steph.) E.W.Jones, *Trans. Brit. Bryol. Soc.* 5 (3): 556, 1968 (Jones 1968). Bas.: *Hygrolejeunea grossecristata* Steph., *Hedwigia* 35 (3): 102, 1896 (Stephani 1896b).

- *** *Lejeunea grossiretis* (Steph.) M.E.Reiner et Goda, J. Hattori Bot. Lab. 89: 27, 2000 (Reiner-Drehwald and Goda 2000). Bas.: *Crossotolejeunea grossiretis* Steph., Hedwigia 35 (3): 75, 1896 (Stephani 1896b).
- ** *Lejeunea grossistipula* Steph., Sp. Hepat. (Stephani) 5: 739, 1915 (Stephani 1915b).
- *** *Lejeunea grossitexta* (Steph.) M.E.Reiner et Goda, J. Hattori Bot. Lab. 89: 29, 2000 (Reiner-Drehwald and Goda 2000). Bas.: *Crossotolejeunea grossitexta* Steph., Sp. Hepat. (Stephani) 5: 240, 1913 (Stephani 1913a).
- * *Lejeunea grossiuscula* Gottsche ex Steph., Sp. Hepat. (Stephani) 5: 739, 1915 (Stephani 1915b).
- ** *Lejeunea hahnii* Solari, J. Hattori Bot. Lab. 54: 543, 1983 (Solari 1983a). *Nom. nov. pro Microlejeunea grandistipula* Steph., Hedwigia 35 (3): 114, 1896 (Stephani 1896b).
- * *Lejeunea haitica* Nees et Mont., Ann. Sci. Nat. Bot. (sér. 2) 19: 263, 1843 (Montagne 1843).
- ** *Lejeunea hawaikiana* M.A.M.Renner et de Lange, New Zealand J. Bot. 49 (3): 431, 2011 (Renner and de Lange 2011). *Nom. nov. pro Stenolejeunea acuminata* R.M.Schust., J. Hattori Bot. Lab. 89: 156, 2000 (Schuster 2000b).
- ** *Lejeunea helenae* Pearson, Forh. Vidensk.-Selsk. Kristiania 1886 (3): 6, 1886 (Pearson 1886).
- ** *Lejeunea helmsiana* (Steph.) Steph., Sp. Hepat. (Stephani) 5: 796, 1915 (Stephani 1915b). Bas.: *Eulejeunea helmsiana* Steph., Hedwigia 35 (3): 89, 1896 (Stephani 1896b).
- *** *Lejeunea hepaticola* (Steph.) Steph., Sp. Hepat. (Stephani) 5: 714, 1915 (Stephani 1915b). Bas.: *Eulejeunea hepaticola* Steph., Hedwigia 27 (2): 60, 1888 (Stephani 1888a).
- ** *Lejeunea hibernica* Bischl., H.A.Mill. et Bonner ex Grolle, Lindbergia 3 (1/2): 48, 1975 [1976] (Grolle 1975c). Based on: *Lejeunea hibernica* Bischl., H.A.Mill. et Bonner, Nova Hedwigia 3 (4): 455, 1961 [1962] (Bischler et al. 1961), *nom. inval.*
- ** *Lejeunea hodgsoniana* Grolle ex R.J.Lewington, Bever. et M.A.M.Renner, PhytoKeys 29: 2, 2013 (Lewington et al. 2013).
- ** *Lejeunea howeana* Grolle, Wiss. Z. Friedrich-Schiller-Univ. Jena, Math.-Naturwiss. Reihe 31 (2): 219, 1982 (Grolle 1982). *Nom. nov. pro Cheilolejeunea wattsi-ana* Steph., J. & Proc. Roy. Soc. New South Wales 48 (1/2): 102, 1914 (Stephani and Watts 1914).
- ** *Lejeunea hui* R.L.Zhu, Beih. Nova Hedwigia 121: 134, 2001 (Zhu and So 2001).
- ** *Lejeunea humefacta* Spruce, Trans. & Proc. Bot. Soc. Edinburgh 15: 275, 1884 (Spruce 1884).
- ** *Lejeunea hyalina* (Steph.) L.Söderstr. et A.Hagborg, Phytotaxa 220 (2): 188, 2015 (Söderström et al. 2015a). Bas.: *Pycnolejeunea hyalina* Steph., Sp. Hepat. (Stephani) 5: 614, 1914 (Stephani 1914b).
- ** *Lejeunea ibadana* A.J.Harr. et E.W.Jones, J. Bryol. 12 (1): 40, 1982 (Jones 1982).
- ** *Lejeunea immersa* Spruce, Trans. & Proc. Bot. Soc. Edinburgh 15: 186, 1884 (Spruce 1884).
- ** *Lejeunea increscens* Spruce, Mem. Torrey Bot. Club 1 (3): 124, 1890 (Spruce 1890).
- * *Lejeunea inflatiloba* (Steph.) H.A.Mill., Bonner et Bischl., Nova Hedwigia 14 (1): 67, 1967 (Miller et al. 1967). Bas.: *Microlejeunea inflatiloba* Steph., Sp. Hepat. (Stephani) 6: 422, 1923 (Stephani 1923).

- *** *Lejeunea inflexiloba* Prantl, Hedwigia 31: xvi, 1892 (Prantl 1892). Based on: *Crosotolejeunea inflexiloba* J.B.Jack et Steph., Hedwigia 31 (1): 16, 1892 (Jack and Stephani 1892), *nom. inval.*
- *** *Lejeunea intricata* Prantl, Hedwigia 31: xvi, 1892 (Prantl 1892). Based on: *Crosotolejeunea intricata* J.B.Jack et Steph., Hedwigia 31 (1): 17, 1892 (Jack and Stephani 1892), *nom. inval.*
- *** *Lejeunea isophylla* E.W.Jones, Trans. Brit. Bryol. Soc. 5 (3): 559, 1968 (Jones 1968).
- ** *Lejeunea japonica* Mitt., Trans. Linn. Soc. London, Bot. 3 (3): 203, 1891 (Mitten 1891).
- ** *Lejeunea jardinii* Spruce, Bull. Soc. Bot. France (Congr. Bot.) 36: ccv, 1889 [1890] (Spruce 1889).
- ** *Lejeunea julacea* Steph., Sp. Hepat. (Stephani) 5: 715, 1915 (Stephani 1915b).
- *** *Lejeunea jungneri* (Steph.) Steph., Cat. Afr. Pl. (Hiern) 2 (2): 318, 1901 (Stephani 1901d). Bas.: *Eulejeunea jungneri* Steph., Hedwigia 35 (3): 90, 1896 (Stephani 1896b).
- ** *Lejeunea kashyapii* M.Dey, D.K.Singh et D.Singh, J. Bryol. 30 (2): 126, 2008 (Dey et al. 2008).
- * *Lejeunea kilimandjarensis* Steph., Sp. Hepat. (Stephani) 5: 716, 1915 (Stephani 1915b).
- ** *Lejeunea kinabalensis* Mizut., J. Hattori Bot. Lab. 33: 246, 1970 (Mizutani 1970).
- ** *Lejeunea kodamae* Ikegami et Inoue, J. Jap. Bot. 36 (1): 7, 1961 (Inoue 1961a).
- ** *Lejeunea konosensis* Mizut., J. Hattori Bot. Lab. 71: 127, 1992 (Mizutani 1992).
- ** *Lejeunea kuerschneriana* Pócs, Beih. Nova Hedwigia 138: 100, 2010 (Pócs 2010b).
- *** *Lejeunea laeta* (Lehm. et Lindenb.) Lehm. et Lindenb., Syn. Hepat. 3: 380, 1845 (Gottsche et al. 1845b). Bas.: *Jungermannia laeta* Lehm. et Lindenb., Nov. Stirp. Pug. 6: 45, 1834 (Lehmann 1834).
- ** *Lejeunea laii* R.L.Zhu, J. Bryol. 30 (2): 173, 2008 (Wang and Zhu 2008). *Nom. nov. pro Microlejeunea ramulosa* Herzog, J. Hattori Bot. Lab. 14: 51, 1955 (Herzog and Noguchi 1955).
- *** *Lejeunea lamacerina* (Steph.) Schiffn., Hedwigia 41 (5): 278, 1902 (Schiffner 1902). Bas.: *Eulejeunea lamacerina* Steph., Hedwigia 35 (3): 91, 1896 (Stephani 1896b).³¹⁷
- ** *Lejeunea lamacerina* subsp. *gemminata* R.M.Schust., J. Elisha Mitchell Sci. Soc. 73 (1): 168, 1957 (Schuster 1957a).
- ** *Lejeunea latilobula* (Herzog) R.L.Zhu et M.L.So, J. Bryol. 24 (2): 168, 2002 (Zhu and So 2002). Bas.: *Taxilejeunea latilobula* Herzog, Symb. Sin. 5: 50, 1930 (Nicholson et al. 1930).
- ** *Lejeunea leptalea* Spruce, Trans. & Proc. Bot. Soc. Edinburgh 15: 272, 1884 (Spruce 1884).
- * *Lejeunea leratii* (Steph.) Mizut., J. Hattori Bot. Lab. 33: 243, 1970 (Mizutani 1970). Bas.: *Hygrolejeunea leratii* Steph., Sp. Hepat. (Stephani) 5: 562, 1914 (Stephani 1914b).³¹⁸

317 *Lejeunea lamacerina* forms a North American and a Macaronesian/European clade and the separation of two subspecies are justified if not treating them at species level (Heinrichs et al. 2013).

318 *Lejeunea leratii* is probably distinct from *Lejeunea mimula* (Lee 2013).

- ** *Lejeunea leucosis* Besch. et Spruce, Bull. Soc. Bot. France (Congr. Bot.) 36: clxxxviii, 1889 [1890] (Bescherelle and Spruce 1889).
- * *Lejeunea litoralis* Steph., Sp. Hepat. (Stephani) 5: 778, 1915 (Stephani 1915b).
- ** *Lejeunea lomana* E.W.Jones, Bull. Brit. Mus. (Nat. Hist.), Bot. 11 (3): 257, 1983 (Jones and Harrington 1983).
- ** *Lejeunea longicollis* S.W.Arnell, Results Norweg. Sci. Exped. Tristan da Cunha 42: 12, 1958 (Arnell 1958b).
- ** *Lejeunea longilobula* Pócs, Beih. Nova Hedwigia 138: 112, 2010 (Pócs 2010b). *Nom. nov. pro Lejeunea halei* subsp. *africana* Pócs, J. Bryol. 29 (2): 89, 2007 (Müller and Pócs 2007).
- ** *Lejeunea lowriana* Steph., Sp. Hepat. (Stephani) 5: 779, 1915 (Stephani 1915b).
- *** *Lejeunea lumbricoides* (Nees) Nees, Syn. Hepat. 3: 342, 1845 (Gottsche et al. 1845b). Bas.: *Jungermannia lumbricoides* Nees, Enum. Pl. Crypt. Javae: 40, 1830 (Nees 1830).
- ** *Lejeunea lunatigastria* Tixier, Ann. Hist.-Nat. Mus. Natl. Hung. 66: 98, 1974 (Tixier 1974).
- ** *Lejeunea lyratiflora* Prantl, Hedwigia 31: xvi, 1892 (Prantl 1892). Based on: *Hygrolejeunea lyratiflora* Steph., Hedwigia 31 (4): 169, 1892 (Stephani 1892g), *nom. inval.*
- ** *Lejeunea magohukui* Mizut., Misc. Bryol. Lichenol. 7 (7): 133, 1977 (Mizutani 1977).
- ** *Lejeunea mandonii* (Steph.) Müll.Frib., Leberm. Eur. 2 (9): 1281, 1958 (Müller 1958). Bas.: *Microlejeunea mandonii* Steph., Hedwigia 35 (3): 115, 1896 (Stephani 1896b).
- *** *Lejeunea masoalae* Pócs, Beih. Nova Hedwigia 138: 103, 2010 (Pócs 2010b).
- ** *Lejeunea massalongoana* (Schiffn. ex P.Syd.) Solari, J. Hattori Bot. Lab. 54: 542, 1983 (Solari 1983a). Bas.: *Harpalejeunea massalongoana* Schiffn. ex P.Syd., Just's Bot. Jahresber. 19: 246, 1894 (Sydow 1894).
- ** *Lejeunea megalantha* Spruce, Trans. & Proc. Bot. Soc. Edinburgh 15: 172, 1884 (Spruce 1884).
- ** *Lejeunea mebrana* M.Dey, D.K.Singh et D.Singh, J. Bryol. 30 (2): 128, 2008 (Dey et al. 2008).
- *** *Lejeunea meridensis* Ilk.-Borg., Nova Hedwigia 80 (1/2): 59, 2005 (Ilkiu-Borges 2005).
- ** *Lejeunea micholitzii* Mizut., J. Hattori Bot. Lab. 33: 236, 1970 (Mizutani 1970). *Nom. nov. pro Hygrolejeunea parvisaccata* Steph., Sp. Hepat. (Stephani) 5: 567, 1914 (Stephani 1914b).
- ** *Lejeunea microloba* Taylor, London J. Bot. 5: 399, 1846 (Taylor 1846b).
- *** *Lejeunea mimula* Hürl., Bauhinia 11 (1): 12, 1993 (Hürlimann 1993). *Nom. nov. pro Hygrolejeunea luteola* Steph., Sp. Hepat. (Stephani) 5: 553, 1914 (Stephani 1914b).
- *** *Lejeunea minutiloba* A.Evans, Bull. Torrey Bot. Club 44 (11): 525, 1917 (Evans 1917d).
- ** *Lejeunea minutiloba* var. *heterogyna* R.M.Schust., J. Elisha Mitchell Sci. Soc. 73 (2): 425, 1957 (Schuster 1957d).
- ** *Lejeunea mizutanii* Grolle, J. Hattori Bot. Lab. 45: 178, 1979 (Grolle 1979c). *Nom. nov. pro Cheilolejeunea zollingeri* Steph., Hedwigia 34 (5): 245, 1895 (Stephani 1895b).
- ** *Lejeunea molkenboeriana* Sande Lac., Ned. Kruidk. Arch. 3: 421, 1854 [1855] (Sande Lacoste 1854).

- *** *Lejeunea monimiae* (Steph.) Steph., Sp. Hepat. (Stephani) 5: 747, 1915 (Stephani 1915b). Bas.: *Eulejeunea monimiae* Steph., Hedwigia 35 (3): 91, 1896 (Stephani 1896b).
- *** *Lejeunea multidentata* M.E.Reiner et Mustelier, J. Bryol. 26 (2): 103, 2004 (Reiner-Drehwald and Mustelier 2004).
- * *Lejeunea musae* (Spreng.) Gottsche, Lindenb. et Nees, Syn. Hepat. 3: 407, 1845 (Gottsche et al. 1845b). Bas.: *Jungermannia musae* Spreng. Ann. Wetterauischen Ges. Gesammte Naturk. 1: 25, 1809 (Sprengel 1809).
- ** *Lejeunea muscicola* Spruce, Trans. & Proc. Bot. Soc. Edinburgh 15: 281, 1884 (Spruce 1884).
- * *Lejeunea muscicola* var. *palmicola* Spruce, Trans. & Proc. Bot. Soc. Edinburgh 15: 282, 1884 (Spruce 1884).
- ** *Lejeunea neelgherriana* Gottsche, Syn. Hepat. 3: 354, 1845 (Gottsche et al. 1845b).
- ** *Lejeunea nemoralis* Gottsche, Ann. Sci. Nat. Bot. (sér. 5) 1: 159 (65), 1864 (Gottsche 1864).
- ** *Lejeunea nepalensis* Steph., Sp. Hepat. (Stephani) 5: 780, 1915 (Stephani 1915b).
- * *Lejeunea nesiotica* Besch. et Spruce, Bull. Soc. Bot. France (Congr. Bot.) 36: clxxxviii, 1889 [1890] (Bescherelle and Spruce 1889).
- ** *Lejeunea neumanniana* Nees, Repert. Pharm. 76: 44, 1842 (von Flotow et al. 1842).
- ** *Lejeunea nietneri* (Steph.) Steph. ex Watts, Proc. Linn. Soc. New South Wales (ser. 2) 26 (104): 633, 1902 (Watts 1902). Bas.: *Eulejeunea nietneri* Steph., Hedwigia 35 (3): 91, 1896 (Stephani 1896b).
- ** *Lejeunea notata* Gottsche, Abh. Naturwiss. Vereins Bremen 7: 361, 1882 (Gottsche 1882).
- ** *Lejeunea nymannii* Steph., Sp. Hepat. (Stephani) 5: 781, 1915 (Stephani 1915b).
- ** *Lejeunea obfusca* Mitt., J. Proc. Linn. Soc., Bot. 5 (18): 114, 1860 [1861] (Mitten 1860c).
- ** *Lejeunea obidensis* Spruce, Trans. & Proc. Bot. Soc. Edinburgh 15: 277, 1884 (Spruce 1884).
- * *Lejeunea obscura* Mitt., J. Proc. Linn. Soc., Bot. 5 (18): 112, 1860 [1861] (Mitten 1860c).³¹⁹
- ** *Lejeunea obtusata* Gottsche, Abh. Naturwiss. Vereins Bremen 7: 354, 1882 (Gottsche 1882).
- ** *Lejeunea okomuensis* E.W.Jones, Trans. Brit. Bryol. Soc. 5 (4): 787, 1969 (Jones 1969).
- *** *Lejeunea oligoclada* Spruce, Bull. Soc. Bot. France (Congr. Bot.) 36: cxcix, 1889 [1890] (Spruce 1889).
- *** *Lejeunea oracula* M.A.M.Renner, Austral. Syst. Bot. 23 (6): 448, 2010 (Renner et al. 2010b).
- ** *Lejeunea osculatiiana* De Not., Mem. Reale Accad. Sci. Torino (ser. 2) 16: 233, 1857 (De Notaris 1857).
- ** *Lejeunea otiana* S.Hatt., Bot. Mag. (Tokyo) 65 (763/764): 15, 1952 (Hattori 1952a).

319 *Lejeunea obscura* is possibly conspecific with *Lejeunea aloba* (Söderström et al. 2010a).

- ** *Lejeunea ovalifolia* Steph., Sp. Hepat. (Stephani) 5: 751, 1915 (Stephani 1915b).
- ** *Lejeunea pacifica* Mont., Ann. Sci. Nat. Bot. (sér. 2) 19: 262, 1843 (Montagne 1843).
- ** *Lejeunea pallescens* Mitt., Hooker's J. Bot. Kew Gard. Misc. 3: 360, 1851 (Mitten 1851).
- ** *Lejeunea pallida* Lindenb. et Gottsche, Syn. Hepat. 5: 762, 1847 (Gottsche et al. 1847).
- * *Lejeunea pallidissima* Gola, Nuovo Giorn. Bot. Ital. (n.ser.) 27 (2/4): 247, 1920 (Gola 1920).³²⁰
- *** *Lejeunea papilionacea* Prantl, Hedwigia 31: xvii, 1892 (Prantl 1892). Based on: *Hygrolejeunea papilionacea* Steph., Hedwigia 31 (4): 169, 1892 (Stephani 1892g), *nom. inval.*
- * *Lejeunea paratropa* Spruce, Trans. & Proc. Bot. Soc. Edinburgh 15: 176, 1884 (Spruce 1884).³²¹
- ** *Lejeunea patagonica* (Steph.) Steph., Sp. Hepat. (Stephani) 5: 797, 1915 (Stephani 1915b). Bas.: *Eulejeunea patagonica* Steph., Bih. Kongl. Svenska Vetensk.-Akad. Handl. 26 (III, 6): 66, 1900 (Stephani 1900b).
- ** *Lejeunea patens* Lindb., Acta Soc. Sci. Fenn. 10: 482, 1875 (Lindberg 1875).
- *** *Lejeunea patersonii* (Steph.) Steph., Sp. Hepat. (Stephani) 5: 784, 1915 (Stephani 1915b). Bas.: *Eulejeunea patersonii* Steph., Hedwigia 35 (3): 92, 1896 (Stephani 1896b).
- *** *Lejeunea patriciae* Schäf.-Verw., Candollea 56 (1): 64, 2001 (Schäfer-Verwimp 2001a). *Nom. nov. pro Lejeunea pilifera* Tixier, Gard. Bull. Singapore 25 (3): 351, 1971 (Tixier 1971), *nom. illeg.*
- *** *Lejeunea paucidentata* (Steph.) Grolle, J. Hattori Bot. Lab. 69: 191, 1991 (Grolle 1991). Bas.: *Crossotolejeunea paucidentata* Steph., Hedwigia 35 (3): 76, 1896 (Stephani 1896b).
- *** *Lejeunea pectinella* Mizut., J. Hattori Bot. Lab. 33: 239, 1970 (Mizutani 1970).
- ** *Lejeunea perigonialis* Gottsche, Mexik. Leverm.: 223, 1863 (Gottsche 1863).
- *** *Lejeunea perpapillosa* M.E.Reiner et K.C.Pôrto, Nova Hedwigia 85 (3/4): 542, 2007 (Reiner-Drehwald and Pôrto 2007).
- * *Lejeunea pertusa* (Corda ex Nees et Mont.) Gottsche, Lindenb. et Nees, Syn. Hepat. 3: 407, 1845 (Gottsche et al. 1845b). Bas.: *Jungermannia pertusa* Corda ex Nees et Mont., Ann. Sci. Nat. Bot. (sér. 2) 5: 63, 1836 (Nees and Montagne 1836).
- *** *Lejeunea phyllobola* Nees et Mont., Hist. Phys. Cuba, Bot., Pl. Cell.: 471, 1842 (Montagne 1842a).
- * *Lejeunea phyllobola* var. *turgidula* Spruce, Trans. & Proc. Bot. Soc. Edinburgh 15: 259, 1884 (Spruce 1884).
- *** *Lejeunea planiloba* A.Evans, Proc. Wash. Acad. Sci. 8: 147, 1906 (Evans 1906b).
- ** *Lejeunea polilloensis* Steph., Sp. Hepat. (Stephani) 5: 786, 1915 (Stephani 1915b).
- ** *Lejeunea praetervisa* Steph., Sp. Hepat. (Stephani) 5: 752, 1915 (Stephani 1915b).

320 *Lejeunea pallidissima* is possibly conspecific with *Lejeunea flavovirens* (Vanden Berghen 1972b).

321 *Lejeunea paratropa* is closely related to or perhaps conspecific with *Lejeunea raddiana* Lindenb. (Grolle and Reiner-Drehwald 1999).

- ** *Lejeunea primordialis* (Hook.f. et Taylor) Gottsche, Lindenb. et Nees, Syn. Hepat. 3: 375, 1845 (Gottsche et al. 1845b). Bas.: *Jungermannia primordialis* Hook.f. et Taylor, London J. Bot. 4: 92, 1845 (Hooker and Taylor 1845).
- ** *Lejeunea princeps* (Steph.) Mizut., J. Hattori Bot. Lab. 34: 454, 1971 (Mizutani 1971a). Bas.: *Hygrolejeunea princeps* Steph., Sp. Hepat. (Stephani) 5: 568, 1914 (Stephani 1914b).
- ** *Lejeunea procumbens* Mitt., Fl. vit.: 413, 1871 [1873] (Mitten 1871).
- ** *Lejeunea propagulifera* Gradst., Phytotaxa 9: 54, 2010 (Söderström et al. 2010a). *Nom. nov. pro Trachylejeunea schiffneri* Herzog, Svensk Bot. Tidskr. 42 (3): 239, 1948 (Herzog 1948).
- ** *Lejeunea pteridis* Besch. et Spruce, Bull. Soc. Bot. France (Congr. Bot.) 36: clxxxvii, 1889 [1890] (Bescherelle and Spruce 1889).
- *** *Lejeunea ptosimophylla* C.Massal., Nuovo Giorn. Bot. Ital. 13 (2): 123, 1881 (Massalongo 1881).
- *** *Lejeunea puiggariana* Steph., Sp. Hepat. (Stephani) 5: 754, 1915 (Stephani 1915b).
- *** *Lejeunea pulverulenta* (Steph.) M.E.Reiner, Cryptog. Bryol. 26 (1): 60, 2005 (Reiner-Drehwald 2005b). Bas.: *Taxilejeunea pulverulenta* Steph., Sp. Hepat. (Stephani) 5: 477, 1914 (Stephani 1914b).
- *** *Lejeunea pulvinata* Nees et Mont., Ann. Sci. Nat. Bot. (sér. 2) 5: 61, 1836 (Nees and Montagne 1836). *Nom. nov. pro Jungermannia pulvinata* Lehm. et Lindenb., Nov. Stirp. Pug. 5: 15, 1833 (Lehmann 1833), *nom. illeg.*
- *** *Lejeunea raddiana* Lindenb., Syn. Hepat. 3: 342, 1845 (Gottsche et al. 1845b).
- ** *Lejeunea radicans* Lindenb. et Gottsche, Syn. Hepat. 5: 766, 1847 (Gottsche et al. 1847).
- ** *Lejeunea ramosissima* Steph., Bot. Jahrb. Syst. 8 (2): 88, 1886 (Stephani 1886d).
- ** *Lejeunea rara* Steph., Sp. Hepat. (Stephani) 5: 798, 1915 (Stephani 1915b).³²²
- * *Lejeunea ravenelii* Austin, Bot. Bull. (Hanover) 1 (8): 35, 1876 (Austin 1876a).³²³
- ** *Lejeunea recurva* M.E.Reiner, Polish Bot. J. 58 (2): 423, 2013 (Reiner-Drehwald et al. 2013). *Nom. nov. pro Hygrolejeunea herzogii* Steph., Biblioth. Bot. 87 (2): 265, 1916 (Stephani 1916a), *nom. illeg.*
- *** *Lejeunea reflexistipula* (Lehm. et Lindenb.) Lehm. et Lindenb., Syn. Hepat. 3: 335, 1845 (Gottsche et al. 1845b). Bas.: *Jungermannia reflexistipula* Lehm. et Lindenb., Nov. Stirp. Pug. 5: 10, 1833 (Lehmann 1833).
- ** *Lejeunea reflexistipula* var. *costaricensis* (Steph.) M.E.Reiner, Nova Hedwigia 81 (3/4): 408, 2005 (Reiner-Drehwald 2005a). Bas.: *Hygrolejeunea costaricensis* Steph., Hedwigia 35 (3): 100, 1896 (Stephani 1896b).
- *** *Lejeunea reinerae* Ilk.-Borg., Nova Hedwigia 80 (1/2): 61, 2005 (Ilkiu-Borges 2005). *Nom. nov. pro Echinocolea herzogii* Mizut. et Grolle, Bot. Mag. (Tokyo) 77 (915): 333, 1964 (Grolle 1964d).

322 *Lejeunea rara* is the valid name for *Lejeunea sinclairii* Spruce (1884) hom. illeg. (non Mitten 1862 = *Thysananthus fruticosus*), but Scott and Bradshaw (1985) confused the taxa and considered them conspecific. Grolle (1982) accepted Spruce's taxon without commenting on any homonym problem.

323 *Lejeunea ravenelii* was poorly described and the type specimen so poor that Evans (1902a) could not identify it.

- ** *Lejeunea resupinata* (Steph.) Steph., Sp. Hepat. (Stephani) 5: 757, 1915 (Stephani 1915b). Bas.: *Eulejeunea resupinata* Steph., Bih. Kongl. Svenska Vetensk.-Akad. Handl. 23 (III, 2): 22, 1897 (Stephani 1897a).
- ** *Lejeunea reticulata* Herzog, Nat. Hist. Juan Fernandez (Botany) 2 (5): 747, 1942 (Herzog 1942a).
- *** *Lejeunea rhigophila* M.A.M.Renner, Austral. Syst. Bot. 23 (6): 453, 2010 (Renner et al. 2010b).
- ** *Lejeunea rhodesiae* (Sim) R.M.Schust., J. Hattori Bot. Lab. 25: 71, 1962 (Schuster 1962a). Bas.: *Stylolejeunea rhodesiae* Sim, Trans. Roy. Soc. South Africa 15 (1): 68, 1926 (Sim 1926).
- *** *Lejeunea rionegrensis* Spruce, Trans. & Proc. Bot. Soc. Edinburgh 15: 579, 1885 (Spruce 1885). *Nom. nov. pro Lejeunea implexa* Spruce, Trans. & Proc. Bot. Soc. Edinburgh 15: 240, 1884 (Spruce 1884), *nom. inval.*
- ** *Lejeunea riparia* Mitt., J. Proc. Linn. Soc., Bot. 5 (18): 113, 1860 [1861] (Mitten 1860c).
- * *Lejeunea rothii* (Schwägr.) Gottsche, Lindenb. et Nees, Syn. Hepat. 3: 407, 1845 (Gottsche et al. 1845b). Bas.: *Jungermannia rothii* Schwägr., Hist. Musc. Hepat. Prodr.: 17, 1814 (Schwägrichen 1814).
- *** *Lejeunea rotundifolia* Mitt., Hooker's J. Bot. Kew Gard. Misc. 3: 359, 1851 (Mitten 1851).
- ** *Lejeunea sanctae-helenae* M.Wigginton, J. Bryol. 29 (1): 12, 2007 (Wigginton 2007).
- ** *Lejeunea schusteri* Grolle, Haussknechtia 8: 60, 2001 (Grolle 2001). *Nom. nov. pro Rectolejeunea denudata* R.M.Schust., J. Hattori Bot. Lab. 89: 143, 2000 (Schuster 2000c).
- ** *Lejeunea semiscabrida* Gottsche, Ann. Sci. Nat. Bot. (sér. 5) 1: 154 (60), 1864 (Gottsche 1864).
- ** *Lejeunea semperi* Steph., Sp. Hepat. (Stephani) 5: 788, 1915 (Stephani 1915b).
- ** *Lejeunea seriata* Lindenb. et Gottsche, Syn. Hepat. 5: 762, 1847 (Gottsche et al. 1847).
- ** *Lejeunea sessiliflora* (Steph.) Grolle, Wiss. Z. Friedrich-Schiller-Univ. Jena, Math.-Naturwiss. Reihe 37: 171, 1988 (Grolle 1988b). Bas.: *Macrolejeunea sessiliflora* Steph., Sp. Hepat. (Stephani) 5: 512, 1914 (Stephani 1914b).
- ** *Lejeunea setacea* (Steph.) Steph., Sp. Hepat. (Stephani) 5: 719, 1914 (Stephani 1914b). Bas.: *Eulejeunea setacea* Steph., Bull. Mus. Natl. Hist. Nat. 18 (2): 120, 1912 (Corbière 1912).
- ** *Lejeunea setiloba* Spruce, Trans. & Proc. Bot. Soc. Edinburgh 15: 281, 1884 (Spruce 1884).
- ** *Lejeunea sharpii* (R.M.Schust.) R.M.Schust., Hepat. Anthocerotae N. Amer. 4: 991, 1980 (Schuster 1980c). Bas.: *Taxilejeunea sharpii* R.M.Schust., J. Elisha Mitchell Sci. Soc. 81 (1): 41, 1965 (Schuster 1965a).
- ** *Lejeunea siccata* Spruce, Trans. & Proc. Bot. Soc. Edinburgh 15: 284, 1884 (Spruce 1884).
- ** *Lejeunea silvatica* Gottsche, Ann. Sci. Nat. Bot. (sér. 5) 1: 159 (65), 1864 (Gottsche 1864).

- ** *Lejeunea smaragdina* Besch. et Spruce, Bull. Soc. Bot. France (Congr. Bot.) 36: clxxxii, 1889 [1890] (Bescherelle and Spruce 1889).
- *** *Lejeunea soae* R.L.Zhu, Y.M.Wei, L.Söderstr., A.Hagborg et von Konrat, Phytotaxa 81 (1): 1, 2013 (Zhu et al. 2013). *Nom. nov. pro Trachylejeunea chinensis* Herzog, Symb. Sin. 5: 49, 1930 (Nicholson et al. 1930).
- ** *Lejeunea solanicola* Spruce, Trans. & Proc. Bot. Soc. Edinburgh 15: 280, 1884 (Spruce 1884).
- *** *Lejeunea sordida* (Nees) Nees, Naturgesch. Eur. Leberm. 3: 278, 1838 (Nees 1838b). Bas.: *Jungermannia sordida* Nees, Enum. Pl. Crypt. Javae: 41, 1830 (Nees 1830).
- *** *Lejeunea spiniloba* Lindenb. et Gottsche, Syn. Hepat. 5: 770, 1847 (Gottsche et al. 1847).
- ** *Lejeunea spinuliflora* Spruce, Trans. & Proc. Bot. Soc. Edinburgh 15: 177, 1884 (Spruce 1884).
- ** *Lejeunea sporadica* Besch. et Spruce, Bull. Soc. Bot. France (Congr. Bot.) 36: clxxx, 1889 [1890] (Bescherelle and Spruce 1889).
- * *Lejeunea squarrosa* (Steph.) Steph., Sp. Hepat. (Stephani) 5: 719, 1915 (Stephani 1915b). Bas.: *Eulejeunea squarrosa* Steph., Bot. Jahrb. Syst. 20 (3): 317, 1895 (Stephani 1895a).
- ** *Lejeunea squarrosula* (Herzog) Solari, J. Hattori Bot. Lab. 54: 543, 1983 (Solari 1983a). Bas.: *Strepsilejeunea squarrosula* Herzog, Nat. Hist. Juan Fernandez (Botany) 2 (5): 741, 1942 (Herzog 1942a).
- * *Lejeunea stephaniana* Mizut., J. Hattori Bot. Lab. 27: 143, 1964 (Mizutani 1964a). *Nom. nov. pro Strepsilejeunea heterophylla* Steph., Sp. Hepat. (Stephani) 6: 395, 1923 (Stephani 1923).³²⁴
- ** *Lejeunea stevensiana* (Steph.) Mizut., J. Hattori Bot. Lab. 34: 452, 1971 (Mizutani 1971a). Bas.: *Taxilejeunea stevensiana* Steph., Hedwigia 35 (3): 136, 1896 (Stephani 1896b).
- ** *Lejeunea subacuta* Mitt., J. Proc. Linn. Soc., Bot. 5 (18): 113, 1860 [1861] (Mitten 1860c).
- * *Lejeunea subaquatica* Schiffn., Arch. Hydrobiol., suppl. 21 (3/4): 397, 1955 (Schiffner 1955).
- * *Lejeunea subbifida* Steph. ex Duss, Enum. musc. Antilles franç., Hép.: 10, 1903 (Duss 1903). *Nom. nov. pro Odontolejeunea subbifida* Steph., Symb. Antill. (Urban) 3 (2): 277, 1902 (Stephani 1902e), *nom. illeg.*
- ** *Lejeunea subigiensis* (Steph.) Steph., Hedwigia 35 (3): 94, 1896 (Stephani 1896b). Bas.: *Eulejeunea subigiensis* Steph., Hedwigia 35 (3): 94, 1896 (Stephani 1896b).
- ** *Lejeunea subrufula* Spruce, Trans. & Proc. Bot. Soc. Edinburgh 15: 289, 1884 (Spruce 1884).
- ** *Lejeunea subsessilis* Spruce, Trans. & Proc. Bot. Soc. Edinburgh 15: 282, 1884 (Spruce 1884).

³²⁴ *Lejeunea stephaniana* is doubtfully distinct from *Lejeunea discreta* (Söderström et al. 2010a).

- *** *Lejeunea subspathulata* Spruce, Trans. & Proc. Bot. Soc. Edinburgh 15: 173, 1884 (Spruce 1884).
- ** *Lejeunea succulenta* Herzog, Rev. Bryol. Lichénol. 20 (1/2): 171, 1951 [1952] (Herzog 1951a).
- ** *Lejeunea suffruticola* Spruce, Trans. & Proc. Bot. Soc. Edinburgh 15: 279, 1884 (Spruce 1884).
- ** *Lejeunea syoshii* Inoue, Bull. Natl. Sci. Mus. Tokyo, B 3 (4): 143, 1977 (Inoue 1977b).
- *** *Lejeunea talamancensis* M.E.Reiner et Schäf.-Verw., Nova Hedwigia 87 (3/4): 414, 2008 (Reiner-Drehwald and Schäfer-Verwimp 2008).
- *** *Lejeunea tamasii* M.E.Reiner, N.Salazar et C.Chung, Polish Bot. J. 58 (2): 420, 2013 (Reiner-Drehwald et al. 2013).
- ** *Lejeunea tamaspocsii* G.E.Lee, Polish Bot. J. 58 (1): 66, 2013 (Lee and Gradstein 2013).
- *** *Lejeunea tapajosensis* Spruce, Trans. & Proc. Bot. Soc. Edinburgh 15: 223, 1884 (Spruce 1884).
- ** *Lejeunea tarapotensis* Spruce, Trans. & Proc. Bot. Soc. Edinburgh 15: 282, 1884 (Spruce 1884).
- ** *Lejeunea tenella* Taylor, London J. Bot. 5: 398, 1846 (Taylor 1846b).
- ** *Lejeunea thallophora* (Eifrig) Gradst., Phytotaxa 9: 54, 2010 (Söderström et al. 2010a). Bas.: *Taxilejeunea thallophora* Eifrig, Monogr. Stud. Indomal. Art. *Taxilejeunea*: 99, 1937 (Eifrig 1937).
- *** *Lejeunea tonduzana* (Steph.) M.E.Reiner, Polish Bot. J. 58 (2): 421, 2013 (Reiner-Drehwald et al. 2013). Bas.: *Hygrolejeunea tonduzana* Steph., Hedwigia 35 (3): 105, 1896 (Stephani 1896b).
- ** *Lejeunea trachygona* Spruce, Trans. & Proc. Bot. Soc. Edinburgh 15: 175, 1884 (Spruce 1884).
- *** *Lejeunea trinitensis* Lindenb., Syn. Hepat. 3: 381, 1845 (Gottsche et al. 1845b).
- ** *Lejeunea trukensis* H.A.Mill. et Bonner, Beih. Nova Hedwigia 11: 56, 1963 (Miller et al. 1963).
- ** *Lejeunea tuberculosa* Steph., Sp. Hepat. (Stephani) 5: 790, 1915 (Stephani 1915b).
- ** *Lejeunea tumida* Mitt., Bot. antarct. voy. II (Fl. Nov.-Zel. 2): 157, 1854 (Mitten 1854).
- ** *Lejeunea uleana* (Steph.) Steph., Sp. Hepat. (Stephani) 5: 765, 1915 (Stephani 1915b). Bas.: *Eulejeunea uleana* Steph., Hedwigia 35 (3): 94, 1896 (Stephani 1896b).
- *** *Lejeunea umbilicata* (Nees) Nees, Observ. bot.: 472, 1843 (Gottsche et al. 1843). Bas.: *Jungermannia umbilicata* Nees, Enum. Pl. Crypt. Javae: 42, 1830 (Nees 1830).
- ** *Lejeunea utriculata* (Steph.) Mizut., J. Hattori Bot. Lab. 33: 242, 1970 (Mizutani 1970). Bas.: *Pycnolejeunea utriculata* Steph., Hedwigia 35 (3): 126, 1896 (Stephani 1896b).
- ** *Lejeunea vesicata* Mitt., Fl. vit.: 415, 1871 [1873] (Mitten 1871).
- *** *Lejeunea villaumei* (Steph.) Grolle, J. Bryol. 9 (4): 536, 1977 [1978] (Grolle 1977a). Bas.: *Otigoniolejeunea villaumei* Steph., Sp. Hepat. (Stephani) 5: 516, 1914 (Stephani 1914b).
- ** *Lejeunea vojtkoi* Pócs, Beih. Nova Hedwigia 138: 107, 2010 (Pócs 2010b).
- ** *Lejeunea vulgariformis* Gottsche, Abh. Naturwiss. Vereins Bremen 7: 355, 1882 (Gottsche 1882).

- ** *Lejeunea wattiana* (Steph.) H.A.Mill., Bonner et Bischl., Nova Hedwigia 14 (1): 66, 1967 (Miller et al. 1967). Bas.: *Microlejeunea wattiana* Steph., Sp. Hepat. (Stephani) 5: 834, 1916 (Stephani 1916b).
- * *Lejeunea wichurae* (Steph.) Steph., Sp. Hepat. (Stephani) 5: 792, 1915 (Stephani 1915b). Bas.: *Eulejeunea wichurae* Steph., Hedwigia 35 (3): 94, 1896 (Stephani 1896b).
- ** *Lejeunea wightii* Lindenb., Syn. Hepat. 3: 379, 1845 (Gottsche et al. 1845b).
- *** *Lejeunea xiphophylla* (Herzog) M.E.Reiner, Nova Hedwigia 87 (3/4): 409, 2008 (Reiner-Drehwald and Schäfer-Verwimp 2008). Bas.: *Taxilejeunea xiphophylla* Herzog, Svensk Bot. Tidskr. 46 (1): 99, 1952 (Herzog 1952e).
- ** **subg. *Nanolejeunea* R.M.Schust.**, Hepat. Anthocerotae N. Amer. 4: 1092, 1980 (Schuster 1980c).
- ** *Lejeunea curviloba* Steph., Sp. Hepat. (Stephani) 5: 774, 1915 (Stephani 1915b).
- *** *Lejeunea laetevirens* Nees et Mont., Hist. Phys. Cuba, Bot., Pl. Cell.: 469, 1842 (Montagne 1842a).
- ** *Lejeunea pallidevirens* S.Hatt., J. Hattori Bot. Lab. 12: 80, 1954 (Hattori 1954). *Nom. nov. pro Microlejeunea rotundistipula* var. *pallida* S.Hatt., J. Hattori Bot. Lab. 5: 53, 1951 (Hattori 1951d).
- ** *Lejeunea parva* (S.Hatt.) Mizut., Misc. Bryol. Lichenol. 5 (10/12): 178, 1971 (Mizutani 1971b). Bas.: *Microlejeunea rotundistipula* f. *parva* S.Hatt., Bull. Tokyo Sci. Mus. 11: 123, 1944 (Hattori 1944d).
- *** *Lejeunea prionoides* Spruce, Trans. & Proc. Bot. Soc. Edinburgh 15: 238, 1884 (Spruce 1884).
- *** *Lejeunea ramulosa* Spruce, Trans. & Proc. Bot. Soc. Edinburgh 15: 274, 1884 (Spruce 1884).
- *** **subg. *Neopotamolejeunea* (M.E.Reiner) Gradst. et M.E.Reiner**, Syst. Bot. 32 (3): 487, 2007 (Gradstein and Reiner-Drehwald 2007). Bas.: *Neopotamolejeunea* M.E.Reiner, Nova Hedwigia 71 (3/4): 449, 2000 (Reiner-Drehwald 2000).
- ** *Lejeunea juruana* Gradst. et M.E.Reiner, Syst. Bot. 32 (3): 488, 2007 (Gradstein and Reiner-Drehwald 2007). *Nom. nov. pro Potamolejeunea uleana* Steph., Sp. Hepat. (Stephani) 5: 641, 1914 (Stephani 1914b).
- *** *Lejeunea polyantha* Mont., Ann. Sci. Nat. Bot. (sér. 4) 5: 350, 1856 (Montagne 1856c).
- ** *Lejeunea tenera* (Sw.) Gottsche, Lindenb. et Nees, Syn. Hepat. 3: 406, 1845 (Gottsche et al. 1845b). Bas.: *Jungermannia tenera* Sw., Prodr. (Swartz): 143, 1788 (Swartz 1788).
- *** *Lejeunea topoensis* Gradst. et M.E.Reiner, Syst. Bot. 32 (3): 488, 2007 (Gradstein and Reiner-Drehwald 2007).
- ** **subg. *Papillolejeunea* (Pócs) R.M.Schust.**, J. Hattori Bot. Lab. 85: 84, 1998 (Schuster 1998a). Bas.: *Papillolejeunea* Pócs, Trop. Bryol. 13: 2, 1997 (Pócs 1997b).
- ** *Lejeunea balazsii* (Pócs) R.M.Schust., J. Hattori Bot. Lab. 85: 84, 1998 (Schuster 1998a). Bas.: *Papillolejeunea balazsii* Pócs, Trop. Bryol. 13: 3, 1997 (Pócs 1997b).

- ** *Lejeunea candida* (Pócs) R.M.Schust., J. Hattori Bot. Lab. 85: 84, 1998 (Schuster 1998a). Bas.: *Papillolejeunea candida* Pócs, Trop. Bryol. 13: 8, 1997 (Pócs 1997b).
- ** *Lejeunea falcata* (Pócs et J.Eggers) Pócs, Phytotaxa 208 (1): 99, 2015 (Pócs et al. 2015a). Bas.: *Papillolejeunea falcata* Pócs et J.Eggers, Bryobrothera 5: 163, 1999 (Pócs and Eggers 1999).
- ** *Lejeunea koponenii* (Pócs et J.Eggers) Pócs, Phytotaxa 208 (1): 99, 2015 (Pócs et al. 2015a). Bas.: *Papillolejeunea koponenii* Pócs et J.Eggers, Bryobrothera 5: 159, 1999 (Pócs and Eggers 1999).
- ** *Lejeunea papuana* (Pócs) R.M.Schust., J. Hattori Bot. Lab. 85: 84, 1998 (Schuster 1998a). Bas.: *Papillolejeunea papuana* Pócs, Trop. Bryol. 13: 14, 1997 (Pócs 1997b).
- ** *Lejeunea touwii* (Pócs) R.M.Schust., J. Hattori Bot. Lab. 85: 84, 1998 (Schuster 1998a). Bas.: *Papillolejeunea touwii* Pócs, Trop. Bryol. 13: 11, 1997 (Pócs 1997b).

Incertae sedis

- * *Lejeunea apiahyna* (Steph.) Sushil K.Singh, Phytotaxa 96 (1): 63, 2013 (Singh 2013). Bas.: *Otigoniolejeunea apiahyna* Steph., Sp. Hepat. (Stephani) 5: 514, 1914 (Stephani 1914b).
- * *Lejeunea aptycta* Gottsche, Syn. Hepat. 3: 369, 1845 (Gottsche et al. 1845b).
- ** *Lejeunea asthenica* Spruce, Trans. & Proc. Bot. Soc. Edinburgh 15: 222, 1884 (Spruce 1884).
- * *Lejeunea bethanica* Gottsche, Syn. Hepat. 3: 381, 1845 (Gottsche et al. 1945b)
- ** *Lejeunea bombonasensis* Spruce, Trans. & Proc. Bot. Soc. Edinburgh 15: 222, 1884 (Spruce 1884).
- ** *Lejeunea bornmuelleri* (Steph.) M.E.Reiner, Nova Hedwigia 95 (3/4): 471, 2012 (Reiner-Drehwald and Grolle 2012). Bas.: *Rectolejeunea bornmuelleri* Steph., Sp. Hepat. (Stephani) 5: 682, 1914 (Stephani 1914b).
- ** *Lejeunea caracensis* Lindenb., Syn. Hepat. 3: 355, 1845 (Gottsche et al. 1845b).
- ** *Lejeunea caripensis* Lindenb. et Gottsche, Syn. Hepat. 5: 758, 1847 (Gottsche et al. 1847).
- ** *Lejeunea chamissonis* Lindenb., Syn. Hepat. 3: 378, 1845 (Gottsche et al. 1845b).
- ** *Lejeunea chimborazensis* Spruce, Trans. & Proc. Bot. Soc. Edinburgh 15: 215, 1884 (Spruce 1884).
- *** *Lejeunea combuensis* O.S.Moura, Illk.-Borg. et M.E.Reiner, Nova Hedwigia 95 (1/2): 198, 2012 (Moura et al. 2012).
- ** *Lejeunea concava* Lindenb. et Gottsche, Syn. Hepat. 5: 759, 1847 (Gottsche et al. 1847).
- *** *Lejeunea conformis* Nees et Mont., Ann. Sci. Nat. Bot. (sér. 2) 19: 260, 1843 (Montagne 1843).
- ** *Lejeunea cordistipula* Lindenb. et Gottsche, Syn. Hepat. 5: 758, 1847 (Gottsche et al. 1847).
- ** *Lejeunea cyrtotis* Spruce, Trans. & Proc. Bot. Soc. Edinburgh 15: 229, 1884 (Spruce 1884).
- *** *Lejeunea debilis* (Lehm. et Lindenb.) Nees et Mont., Ann. Sci. Nat. Bot. (sér. 2) 5: 60, 1836 (Nees and Montagne 1836). Bas.: *Jungermannia debilis* Lehm. et Lindenb., Nov. Stirp. Pug. 4: 51, 1832 (Lehmann 1832).

- ** *Lejeunea devendrae* (Sushil K.Singh) P.K.Verma et K.K.Rawat, *J. Bryol.* 36 (2): 161, 2014 (Verma and Rawat 2014). Bas.: *Rectolejeunea devendrae* Sushil K.Singh, *Indian J. Forest.* 34 (3): 341, 2011 (Singh 2011).
- ** *Lejeunea dictyocalyx* Spruce, *Trans. & Proc. Bot. Soc. Edinburgh* 15: 218, 1884 (Spruce 1884).
- ** *Lejeunea dipterota* (Eifrig) G.E.Lee, *Polish Bot. J.* 58 (1): 61, 2013 (Lee and Gradstein 2013). Bas.: *Taxilejeunea dipterota* Eifrig, *Monogr. Stud. Indomal. Art. Taxilejeunea*: 96, 1937 (Eifrig 1937).
- *** *Lejeunea drehwaldii* Heinrichs et Schäf.-Verw., *Phytotaxa* 69: 14, 2012 (Heinrichs et al. 2012b). *Nom. nov. pro Sphaerolejeunea umbilicata* Herzog, *Ann. Bryol.* 11: 88, 1938 (Herzog 1938b).
- ** *Lejeunea duncaniae* (Sim) M.E.Reiner, *Phytotaxa* 208 (1): 98, 2015 (Pócs et al. 2015a). Bas.: *Stylolejeunea duncaniae* Sim, *Trans. Roy. Soc. South Africa* 15 (1): 68, 1926 (Sim 1926).
- ** *Lejeunea edentata* L.Söderstr., *Phytotaxa* 208 (1): 98, 2015 (Pócs et al. 2015a). *Nom. nov. pro Cyclolejeunea marginata* R.M.Schust., *Phytologia* 39 (6): 430, 1978 (Schuster 1978b).
- * *Lejeunea emarginuliflora* Gottsche ex Steph., *Sp. Hepat. (Stephani)* 5: 734, 1915 (Stephani 1915b).³²⁵
- * *Lejeunea epibrya* Taylor, *London J. Bot.* 7: 199, 1848 (Taylor 1848a).
- ** *Lejeunea estrellamontana* M.A.M.Renner et Pócs, *Phytotaxa* 81 (1): 9, 2013 (Renner et al. 2013d). *Nom. nov. pro Stenolejeunea fissistipula* R.M.Schust., *J. Hattori Bot. Lab.* 89: 167, 2000 (Schuster 2000b).
- * *Lejeunea fawcettiae* D.J.Carr, *Proc. Roy. Soc. Victoria* 117 (2): 325, 2005 (Carr 2005). Based on: *Lejeunea fawcettiae* D.J.Carr, *Proc. Roy. Soc. Victoria* 116 (2): 229, 2004 (Carr 2004), *nom. inval.*
- ** *Lejeunea flaccida* Lindenb. et Gottsche, *Syn. Hepat.* 5: 758, 1847 (Gottsche et al. 1847).
- ** *Lejeunea flavida* Mitt., *J. Proc. Linn. Soc., Bot.* 5 (18): 113, 1860 [1861] (Mitten 1860c).
- ** *Lejeunea florida* Spruce, *Trans. & Proc. Bot. Soc. Edinburgh* 15: 221, 1884 (Spruce 1884).
- ** *Lejeunea fulva* Spruce, *Trans. & Proc. Bot. Soc. Edinburgh* 15: 237, 1884 (Spruce 1884).
- ** *Lejeunea gottscheana* Lindenb., *Syn. Hepat.* 3: 382, 1845 (Gottsche et al. 1845b).
- ** *Lejeunea graminicolor* Spruce, *J. Linn. Soc., Bot.* 30 (210): 343, 1895 (Gepp 1895b).
- *** *Lejeunea grolleana* (Bernecker) R.L.Zhu et W.Ye, *J. Syst. Evol.* 51 (4): 472, 2013 (Ye et al. 2013b). Bas.: *Oryzolejeunea grolleana* Bernecker, *Haussknechtia, Beih.* 9: 37, 1999 (Bernecker-Lücking 1999).
- *** *Lejeunea herminieri* (Steph.) R.L.Zhu, *Phytotaxa* 208 (1): 99, 2015 (Pócs et al. 2015a). Bas.: *Archilejeunea herminieri* Steph., *Sp. Hepat. (Stephani)* 4: 714, 1911 (Stephani 1911e).

325 *Lejeunea emarginuliflora* is a *Lejeunea* (subg. *Heterolejeunea*) species (Reiner-Drehwald and Grolle 2012).

- ** *Lejeunea heterocheila* Taylor, London J. Bot. 5: 394, 1846 (Taylor 1846b).
- * *Lejeunea hygrophila* Gottsche, Ann. Sci. Nat. Bot. (sér. 5) 1: 157, 1864 (Gottsche 1864).
- ** *Lejeunea laevicalyx* Gottsche, Mexik. Leverm.: 221, 1863 (Gottsche 1863).
- * *Lejeunea laxa* (Nees) Lindenb., Syn. Hepat. 3: 378, 1845 (Gottsche et al. 1845b). Bas.: *Jungermannia thymifolia* δ *laxa* Nees, Enum. Pl. Crypt. Javae: 43, 1830 (Nees 1830).
- ** *Lejeunea leiantha* Spruce, J. Linn. Soc., Bot. 30 (210): 345, 1895 (Gepp 1895b).
- ** *Lejeunea leptoscypha* Spruce, Bull. Soc. Bot. France (Congr. Bot.) 36: ccv, 1889 [1890] (Spruce 1889).
- *** *Lejeunea lusoria* (Lindenb. et Gottsche) Steph., Hedwigia 29 (3): 141, 1890 (Stephani 1890d). Bas.: *Omphalanthus lusorius* Lindenb. et Gottsche, Syn. Hepat. 5: 747, 1847 (Gottsche et al. 1847).
- ** *Lejeunea luzonensis* (Steph.) R.L.Zhu et M.J.Lai, Ann. Bot. Fenn. 48 (5): 376, 2011 (Wang et al. 2011). Bas.: *Taxilejeunea luzonensis* Steph., Hedwigia 35 (3): 134, 1896 (Stephani 1896b).
- ** *Lejeunea macrorhyncha* Spruce, Trans. & Proc. Bot. Soc. Edinburgh 15: 220, 1884 (Spruce 1884).
- ** *Lejeunea malangensis* (Herzog) R.L.Zhu et Y.M.Wei, J. Bryol. 34 (4): 319, 2012 (Zhu and Wei 2012). Bas.: *Trachylejeunea malangensis* Herzog, Mitt. Inst. Allg. Bot. Hamburg 7 (3): 203, 1931 (Herzog 1931a).
- ** *Lejeunea marasmodes* Spruce, Mem. Torrey Bot. Club 1 (3): 125, 1890 (Spruce 1890).
- ** *Lejeunea morobensis* (Grolle) M.A.M.Renner et Pócs, Phytotaxa 81 (1): 9, 2013 (Renner et al. 2013d). Bas.: *Stenolejeunea morobensis* Grolle, J. Hattori Bot. Lab. 29: 76, 1966 (Grolle 1966e).
- ** *Lejeunea novoguineensis* Schiffn., Nova Acta Acad. Caes. Leop.-Carol. German. Nat. Cur. 60 (2): 238, 1893 (Schiffner 1893a).
- *** *Lejeunea obtusangula* Spruce, Trans. & Proc. Bot. Soc. Edinburgh 15: 221, 1884 (Spruce 1884).
- * *Lejeunea oerstediana* Lindenb. et Hampe, Linnaea 24 (6): 641, 1851 [1852] (Hampe 1851a).³²⁶
- ** *Lejeunea paraensis* Spruce, Trans. & Proc. Bot. Soc. Edinburgh 15: 224, 1884 (Spruce 1884).
- ** *Lejeunea parviloba* Ångstr., Öfvers. Kongl. Vetensk.-Akad. Förh. 33 (7): 87, 1876 [1877] (Ångström 1876).
- * *Lejeunea pfliedereri* Sushil K.Singh, Phytotaxa 96 (1): 63, 2013 (Singh 2013). *Nom. nov. pro Otigoniolejeunea indica* Steph., Sp. Hepat. (Stephani) 6: 408, 1923 (Stephani 1923).
- * *Lejeunea prominula* Gottsche, Ann. Sci. Nat. Bot. (sér. 5) 1: 157, 1864 (Gottsche 1864).

326 *Lejeunea oerstediana* is a poorly known taxon often placed in *Euosmolejeunea* (= *Cheilolejeunea*). We can not tell where it belongs until the type specimen is re-studied (Söderström et al. 2011a).

- *** *Lejeunea pterigonia* (Lehm. et Lindenb.) Mont., Ann. Sci. Nat. Bot. (sér. 2) 14: 337, 1840 (Montagne 1840a). Bas.: *Jungermannia pterigonia* Lehm. et Lindenb., Nov. Stirp. Pug. 6: 44, 1834 (Lehmann 1834).
- ** *Lejeunea quinqueumbonata* Spruce, Trans. & Proc. Bot. Soc. Edinburgh 15: 230, 1884 (Spruce 1884).
- ** *Lejeunea quinqueumbonata* var. *rotundata* (Herzog) Sushil K.Singh, Phytotaxa 96 (1): 64, 2013 (Singh 2013). Bas.: *Otigoniolejeunea quinqueumbonata* var. *rotundata* Herzog, Rev. Bryol. Lichénol. 20 (1/2): 154, 1951 [1952] (Herzog 1951a).
- ** *Lejeunea remotifolia* Hampe ex Steph., Sp. Hepat. (Stephani) 5: 756, 1915 (Stephani 1915b).
- *** *Lejeunea ruthii* (A.Evans) R.M.Schust., J. Hattori Bot. Lab. 25: 23, 1962 (Schuster 1962a). Bas.: *Microlejeunea ruthii* A.Evans, Mem. Torrey Bot. Club 8 (2): 161, 1902 (Evans 1902a).
- ** *Lejeunea ruthii* var. *alata* R.M.Schust., Hepat. Anthocerotae N. Amer. 4: 1063, 1980 (Schuster 1980c).
- ** *Lejeunea sikorae* (Steph.) Steph., Bull. Soc. Roy. Bot. Belgique, Mém. 32: 120, 1893 [1894] (Renauld and Cardot 1893). Bas.: *Taxilejeunea sikorae* Steph., Bull. Soc. Roy. Bot. Belgique, Compt. Rend. 32 (2): 34, 1893 [1894] (Stephani 1893e).
- ** *Lejeunea srivastavae* P.K.Verma et K.K.Rawat, Taiwaniana 58 (1): 8, 2013 (Verma and Rawat 2013).
- ** *Lejeunea stenodentata* M.A.M.Renner et Pócs, Phytotaxa 81 (1): 8, 2013 (Renner et al. 2013d). *Nom. nov. pro Drepanolejeunea dentata* Steph., Hedwigia 35 (3): 82, 1896 (Stephani 1896b).
- *** *Lejeunea subelobata* Carrington et Pearson, Proc. Linn. Soc. New South Wales (ser. 2) 2 (4): 1039, 1888 (Carrington and Pearson 1888a).
- ** *Lejeunea subolivacea* Mizut., J. Hattori Bot. Lab. 28: 121, 1965 (Mizutani 1965). *Nom. nov. pro Eulejeunea olivacea* Steph., Hedwigia 29 (2): 85, 1890 (Stephani 1890b).
- ** *Lejeunea subplana* (Steph.) C.J.Bastos, J. Bryol. 36 (3): 249, 2014 (Bastos 2014). Bas.: *Trachylejeunea subplana* Steph., Sp. Hepat. (Stephani) 5: 310, 1913 (Stephani 1913a).
- *** *Lejeunea sulphurea* (Lehm. et Lindenb.) Spruce, Trans. & Proc. Bot. Soc. Edinburgh 15: 217, 1884 (Spruce 1884). Bas.: *Jungermannia sulphurea* Lehm. et Lindenb., Nov. Stirp. Pug. 5: 14, 1833 (Lehmann 1833).
- ** *Lejeunea terricola* Spruce, Bull. Soc. Bot. France (Congr. Bot.) 36: cxci, 1889 [1890] (Spruce 1889).
- ** *Lejeunea urbanii* (Steph.) Steph., Sp. Hepat. (Stephani) 5: 766, 1915 (Stephani 1915b). Bas.: *Eulejeunea urbanii* Steph., Hedwigia 27 (11/12): 301, 1888 (Stephani 1888b).
- ** *Lejeunea venezuelana* (R.M.Schust.) R.L.Zhu et W.Ye, J. Syst. Evol. 51 (4): 473, 2013 (Ye et al. 2013b). Bas.: *Cyrtolejeunea venezuelana* R.M.Schust., Phytologia 39 (6): 426, 1978 (Schuster 1978b).
- ** *Lejeunea viridis* R.M.Schust. ex L.Söderstr. et A.Hagborg, Phytotaxa 208 (1): 99, 2015 (Pócs et al. 2015a). Based on: *Prionocolea viridissima* R.M.Schust., J. Hattori Bot. Lab. 75: 215, 1994 (Schuster 1994), *nom. inval.*

- * *Lejeunea zacuapana* (Steph.) Prantl, Hedwigia 29: xviii, 1890 (Prantl 1890). Bas.: *Eulejeunea zacuapana* Steph., Hedwigia 29 (2): 87, 1890 (Stephani 1890b).

Excluded from the genus

- * *Lejeunea elegans* Gottsche, Syn. Hepat. 3: 364, 1845 (Gottsche et al. 1845b).³²⁷
- * *Lejeunea hieronymii* Spruce, Bull. Soc. Bot. France (Congr. Bot.) 36: cciii, 1889 [1890] (Spruce 1889).³²⁸
- * *Lejeunea proboscidea* Gottsche, Mexik. Leverm.: 225, 1863 (Gottsche 1863).³²⁹
- * *Lejeunea scabriflora* Loitl., Diagn. pl. nov.: 22, 1894 (Szyszylowicz 1894).³³⁰
- * *Lejeunea trochantha* Spruce, Bull. Soc. Bot. France (Congr. Bot.) 36: cxcii, 1889 [1890] (Spruce 1889).³³¹
- ** ***Microlejeunea* (Spruce) Steph.**, Hedwigia 27 (2): 61, 1888 (Stephani 1888a). Bas.: *Lejeunea* subg. *Microlejeunea* Spruce, Trans. & Proc. Bot. Soc. Edinburgh 15: 286, 1884 (Spruce 1884).
- *** *Microlejeunea acutifolia* Steph., Hedwigia 35 (3): 113, 1896 (Stephani 1896b).
- ** *Microlejeunea africana* Steph., Hedwigia 27 (2): 61, 1888 (Stephani 1888a).
- ** *Microlejeunea aligera* (Mitt.) Steph., Sp. Hepat. (Stephani) 5: 827, 1915 (Stephani 1915b). Bas.: *Lejeunea aligera* Mitt., J. Proc. Linn. Soc., Bot. 5 (18): 113, 1860 [1861] (Mitten 1860c).
- ** *Microlejeunea ankasica* E.W.Jones, J. Bryol. 10 (4): 394, 1979 (Jones 1979).
- ** *Microlejeunea aphanella* (Spruce) Steph., Sp. Hepat. (Stephani) 5: 816, 1915 (Stephani 1915b). Bas.: *Lejeunea aphanella* Spruce, Trans. & Proc. Bot. Soc. Edinburgh 15: 290, 1884 (Spruce 1884).
- ** *Microlejeunea atsuana* Steph., Hedwigia 35 (3): 113, 1896 (Stephani 1896b).
- ** *Microlejeunea bischlerae* (B.M.Thiers) B.M.Thiers, Phytotaxa 65: 59, 2012 (Thiers et al. 2012). Bas.: *Lejeunea bischlerae* B.M.Thiers, Cryptog. Bryol. Lichénol. 18 (3): 223, 1997 (Thiers 1997b).
- *** *Microlejeunea bullata* (Taylor) Steph., Hedwigia 29 (2): 90, 1890 (Stephani 1890b). Bas.: *Lejeunea bullata* Taylor, London J. Bot. 5: 398, 1846 (Taylor 1846b).
- * *Microlejeunea byssoides* (Gottsche) Pearson, Forh. Vidensk.-Selsk. Kristiania 1892 (8): 9, 1892 (Pearson 1892). Bas.: *Lejeunea byssoides* Gottsche, Abh. Naturwiss. Vereins Bremen 7: 358, 1882 (Gottsche 1882).
- ** *Microlejeunea capillaris* (Gottsche) Steph., Sp. Hepat. (Stephani) 5: 819, 1915 (Stephani 1915b). Bas.: *Lejeunea capillaris* Gottsche, Ann. Sci. Nat. Bot. (sér. 5) 1: 163, 1864 (Gottsche 1864).

327 *Lejeunea elegans* is a *Cheilolejeunea* species (Reiner-Drehwald 2006).

328 *Lejeunea hieronymii* is a *Cheilolejeunea* species of uncertain status.

329 *Lejeunea proboscidea* is a *Drepanolejeunea* species, but Bischler (1964) did not place it to any species.

330 *Lejeunea scabriflora* was rejected from *Dicranolejeunea* by Kruijt (1988), but he did not refer it to any other genus.

331 *Lejeunea trochantha* is a *Cheilolejeunea* species (Reiner-Drehwald 2006).

- ** *Microlejeunea cochlearifolia* Steph., Hedwigia 27 (3/4): 113, 1888 (Stephani 1888d).³³²
- ** *Microlejeunea colombiana* Bischl., Nova Hedwigia 5 (1/2): 373, 1963 (Bischler et al. 1963).
- ** *Microlejeunea constricta* (Grolle) Grolle, J. Bryol. 21 (1): 41, 1999 (Grolle and Reiner-Drehwald 1999). Bas.: *Harpalejeunea constricta* Grolle, Nova Hedwigia 16: 150, 1968 (Grolle 1968d).
- ** *Microlejeunea crenulifolia* (Gottsche) Steph., Hedwigia 35 (3): 114, 1896 (Stephani 1896b). Bas.: *Lejeunea crenulifolia* Gottsche, Mexik. Leverm.: 227, 1863 (Gottsche 1863).
- *** *Microlejeunea cystifera* Herzog, Memoranda Soc. Fauna Fl. Fennica 25: 68, 1950 (Herzog 1950c).
- ** *Microlejeunea dispar* Jovet-Ast, Rev. Bryol. Lichénol. 27 (3/4): 191, 1959 (Jovet-Ast 1959).
- *** *Microlejeunea epiphylla* Bischl., Nova Hedwigia 5 (1/2): 378, 1963 (Bischler et al. 1963).
- *** *Microlejeunea filicuspis* (Steph.) Heinrichs, Schäf.-Verw., Pócs et S.Dong, Phytotaxa 85 (2): 52, 2013 (Dong et al. 2013). Bas.: *Drepanolejeunea filicuspis* Steph., Sp. Hepat. (Stephani) 5: 344, 1913 (Stephani 1913a).
- *** *Microlejeunea fischeri* (Tixier) Heinrichs, Schäf.-Verw., Pócs et S.Dong, Phytotaxa 85 (2): 52, 2013 (Dong et al. 2013). Bas.: *Harpalejeunea fischeri* Tixier, Trop. Bryol. 11: 29, 1995 (Tixier 1995b).
- ** *Microlejeunea fissistipula* Steph., Sp. Hepat. (Stephani) 5: 810, 1915 (Stephani 1915b).
- *** *Microlejeunea globosa* (Spruce) Steph., Sp. Hepat. (Stephani) 5: 821, 1915 (Stephani 1915b). Bas.: *Lejeunea globosa* Spruce, Bull. Soc. Bot. France (Congr. Bot.) 36: cxci, 1889 [1890] (Spruce 1889).
- ** *Microlejeunea herzogiana* Steph., Biblioth. Bot. 87 (2): 266, 1916 (Stephani 1916a).
- ** *Microlejeunea indica* (Udar et U.S.Awasthi) Y.M.Wei et R.L.Zhu, Phytotaxa 97 (2): 63, 2013 (Wei and Zhu 2013b). Bas.: *Lejeunea indica* Udar et U.S.Awasthi, Cryptog. Bryol. Lichénol. 2 (3): 345, 1981 (Udar and Awasthi 1981).
- ** *Microlejeunea inflata* Steph., Sp. Hepat. (Stephani) 5: 811, 1915 (Stephani 1915b).
- ** *Microlejeunea kinabaluensis* (Mizut.) Grolle, J. Bryol. 21 (1): 42, 1999 (Grolle and Reiner-Drehwald 1999). Bas.: *Harpalejeunea kinabaluensis* Mizut., J. Hattori Bot. Lab. 37: 200, 1973 (Mizutani 1973).
- *** *Microlejeunea latitans* (Hook.f. et Taylor) Heinrichs, Schäf.-Verw., Pócs et S.Dong, Phytotaxa 85 (2): 52, 2013 (Dong et al. 2013). Bas.: *Jungermannia latitans* Hook.f. et Taylor, London J. Bot. 3: 399, 1844 (Hooker and Taylor 1844a).
- ** *Microlejeunea lunulatiloba* Horik., J. Sci. Hiroshima Univ., Ser. B, Div. 2, Bot. 1: 27, 1931 (Horikawa 1931b).³³³
- * *Microlejeunea magnilobula* Gola, Ann. Bot. (Rome) 6 (2): 274, 1907 (Gola 1907).

332 *Microlejeunea cochlearifolia* is conspecific with *Microlejeunea kamerunensis* in Jones (1969), but he used the younger name *Microlejeunea kamerunensis* Steph. 1915.

333 *Microlejeunea lunulatiloba* is conspecific with *Microlejeunea ulicina* in Schuster (1962a), but that is not followed by many recent authors.

- ** *Microlejeunea mammillosa* (Mizut.) Grolle, J. Bryol. 21 (1): 42, 1999 (Grolle and Reiner-Drehwald 1999). Bas.: *Harpalejeunea mammillosa* Mizut., J. Hattori Bot. Lab. 37: 192, 1973 (Mizutani 1973).
- ** *Microlejeunea minutissima* (Mizut.) Grolle, J. Bryol. 21 (1): 42, 1999 (Grolle and Reiner-Drehwald 1999). Bas.: *Harpalejeunea minutissima* Mizut., J. Hattori Bot. Lab. 37: 202, 1973 (Mizutani 1973).
- * *Microlejeunea minutistipula* Steph., Wiss. Ergebn. Deut. Zentr.-Afr. Exped. (1907–08), Bot. 2: 131, 1911 (Stephani 1911a).³³⁴
- *** *Microlejeunea moniliata* (Mizut.) R.L.Zhu et Y.M.Wei, Cryptog. Bryol. 34 (3): 308, 2013 (Wei and Zhu 2013a). Bas.: *Lejeunea moniliata* Mizut., J. Hattori Bot. Lab. 46: 357, 1979 (Mizutani 1979b).
- * *Microlejeunea nepalensis* Steph., Sp. Hepat. (Stephani) 5: 832, 1915 (Stephani 1915b).
- ** *Microlejeunea nyandaruensis* Pócs, Polish Bot. J. 47 (1): 14, 2002 (Pócs 2002c).
- ** *Microlejeunea oblongistipula* (Gottsche) Pearson, Forh. Vidensk.-Selsk. Kristiania 1892 (8): 9, 1892 (Pearson 1892). Bas.: *Lejeunea oblongistipula* Gottsche, Abh. Naturwiss. Vereins Bremen 7: 357, 1882 (Gottsche 1882).
- ** *Microlejeunea ocellata* (Herzog) Grolle, Haussknechtia 8: 60, 2001 (Grolle 2001). Bas.: *Rectolejeunea ocellata* Herzog, Trans. & Proc. Roy. Soc. New Zealand 77 (2): 255, 1949 (Herzog 1949a).
- * *Microlejeunea ovistipula* Steph., Wiss. Ergebn. Deut. Zentr.-Afr. Exped. (1907–08), Bot. 2: 131, 1911 (Stephani 1911a).³³⁵
- ** *Microlejeunea papulosa* (Gottsche) Pearson, Forh. Vidensk.-Selsk. Kristiania 1892 (8): 9, 1892 (Pearson 1892). Bas.: *Lejeunea papulosa* Gottsche, Abh. Naturwiss. Vereins Bremen 7: 358, 1882 (Gottsche 1882).
- ** *Microlejeunea perpusilla* (Spruce) Steph., Hedwigia 35 (3): 113, 1896 (Stephani 1896b). Bas.: *Lejeunea perpusilla* Spruce, J. Bot. 19: 36, 1881 (Spruce 1881b).
- ** *Microlejeunea punctiformis* (Taylor) Steph., Hedwigia 29 (2): 90, 1890 (Stephani 1890b). Bas.: *Lejeunea punctiformis* Taylor, London J. Bot. 5: 398, 1846 (Taylor 1846b).³³⁶
- ** *Microlejeunea pyriformis* (Lindenb. et Gottsche) Steph., Sp. Hepat. (Stephani) 5: 824, 1915 (Stephani 1915b). Bas.: *Lejeunea pyriformis* Lindenb. et Gottsche, Syn. Hepat. 5: 767, 1847 (Gottsche et al. 1847).
- ** *Microlejeunea spinosa* (Mizut.) Grolle, J. Bryol. 21 (1): 43, 1999 (Grolle and Reiner-Drehwald 1999). Bas.: *Harpalejeunea spinosa* Mizut., J. Hattori Bot. Lab. 37: 196, 1973 (Mizutani 1973).
- *** *Microlejeunea squarrosa* (Steph.) Heinrichs, Schäf.-Verw., Pócs et S.Dong, Phytotaxa 85 (2): 51, 2013 (Dong et al. 2013). Bas.: *Strepsilejeunea squarrosa* Steph., Hedwigia 35 (3): 130, 1896 (Stephani 1896b).

334 *Microlejeunea minutistipula* is probably either *Microlejeunea cochlearifolia* or *Microlejeunea africana* (Jones 1969).

335 *Microlejeunea ovistipula* is possibly conspecific with *Lejeunea hepaticola* (Jones (1985, Wigginton and Grolle 1996).

336 *Microlejeunea punctiformis* was treated as conspecific with *Microlejeunea ulicina* by Long and Grolle (1990), Fang et al. (1998) and Piippo (1990), but Zhu and So (2001) showed that it merits distinction.

- ** *Microlejeunea strasbergii* Bardat et Ah-Peng, *Bryologist* 114 (4): 669, 2011 (Ah-Peng and Bardat 2011).
- *** *Microlejeunea subulstipa* Steph., *Hedwigia* 35 (3): 115, 1896 (Stephani 1896b).
- * *Microlejeunea szechuanensis* P.C.Chen, *Feddes Repert. Spec. Nov. Regni Veg.* 58: 46, 1955 (Chen 1955).³³⁷
- ** *Microlejeunea udarii* P.K.Verma et S.C.Srivast., *J. Bombay Nat. Hist. Soc.* 108 (2): 122, 2011 [2012] (Verma and Srivastava 2011).
- *** *Microlejeunea ulicina* (Taylor) Steph., *Hedwigia* 29 (2): 88, 1890 (Stephani 1890b). Bas.: *Jungermannia ulicina* Taylor, *Trans. Bot. Soc. Edinburgh* 1 (1/4): 115, 1844 (Taylor 1844a).
- * *Microlejeunea usambarensis* Steph., *Akad. Wiss. Wien, Math.-Naturwiss. Kl., Denkschr.* 88: 730, 1913 (Stephani 1913b).
- ** *Microlejeunea valenciana* Steph., *Sp. Hepat.* (Stephani) 5: 815, 1915 (Stephani 1915b).
- * *Microlejeunea victoriensis* D.J.Carr, *Proc. Roy. Soc. Victoria* 117 (2): 322, 2005 (Carr 2005).
- *** *Microlejeunea wallichiana* (Lehm.) R.L.Zhu et Y.M.Wei, *Cryptog. Bryol.* 34 (3): 308, 2013 (Wei and Zhu 2013a). Bas.: *Jungermannia wallichiana* Lehm., *Nov. Stirp. Pug.* 3: 5, 1831 (Lehmann 1831).
- * ***Taxilejeunea* (Spruce) Steph.**, *Hedwigia* 28 (4): 262, 1889 (Stephani 1889c) nom. rejic. Bas.: *Lejeunea* subg. *Taxilejeunea* Spruce, *Trans. & Proc. Bot. Soc. Edinburgh* 15: 212, 1884 (Spruce 1884).
- ** *Taxilejeunea acutifolia* (Steph.) Steph., *Sp. Hepat.* (Stephani) 5: 481, 1914 (Stephani 1914b). Bas.: *Dicranolejeunea acutifolia* Steph., *Hedwigia* 35 (3): 76, 1896 (Stephani 1896b).
- ** *Taxilejeunea antillana* Steph., *Sp. Hepat.* (Stephani) 5: 482, 1914 (Stephani 1914b).
- ** *Taxilejeunea apiculata* (Gottsche) J.B.Jack et Steph., *Hedwigia* 31 (1): 13, 1892 (Jack and Stephani 1892). Bas.: *Omphalanthus apiculatus* Gottsche, *Ann. Sci. Nat. Bot.* (sér. 5) 1: 149, 1864 (Gottsche 1864).
- ** *Taxilejeunea argentina* Steph., *Sp. Hepat.* (Stephani) 5: 482, 1914 (Stephani 1914b).
- ** *Taxilejeunea arsenii* Steph., *Sp. Hepat.* (Stephani) 6: 400, 1923 (Stephani 1923).
- ** *Taxilejeunea auriculata* Steph., *Sp. Hepat.* (Stephani) 5: 459, 1914 (Stephani 1914b).
- ** *Taxilejeunea berteriana* Steph., *Sp. Hepat.* (Stephani) 5: 483, 1914 (Stephani 1914b).
- ** *Taxilejeunea beyrichiana* Steph., *Sp. Hepat.* (Stephani) 5: 460, 1914 (Stephani 1914b).
- ** *Taxilejeunea biapiculata* Steph., *Sp. Hepat.* (Stephani) 5: 460, 1914 (Stephani 1914b).
- * *Taxilejeunea boliviana* Steph., *Biblioth. Bot.* 87 (2): 260, 1916 (Stephani 1916a).
- ** *Taxilejeunea brasiliensis* Steph., *Hedwigia* 35 (3): 132, 1896 (Stephani 1896b).
- ** *Taxilejeunea coilantha* Herzog, *Rev. Bryol. Lichénol.* 20 (1/2): 159, 1951 [1952] (Herzog 1951a).

³³⁷ *Microlejeunea szechuanensis* may be conspecific with *Microlejeunea punctiformis*.

- * *Taxilejeunea compressiuscula* Steph., Sp. Hepat. (Stephani) 5: 501, 1914 (Stephani 1914b).
- * *Taxilejeunea convoluta* Herzog, Biblioth. Bot. 88: 31, 1920 [1921] (Herzog 1920).
- * *Taxilejeunea cuervi* (Gottsche) Steph., Sp. Hepat. (Stephani) 5: 486, 1914 (Stephani 1914b). Bas.: *Omphalanthus cuervi* Gottsche, Ann. Sci. Nat. Bot. (sér. 5) 1: 147, 1864 (Gottsche 1864).
- * *Taxilejeunea cuneistipula* Steph., Sp. Hepat. (Stephani) 6: 401, 1923 (Stephani 1923).
- * *Taxilejeunea cuspidata* Steph., Biblioth. Bot. 87 (2): 260, 1916 (Stephani 1916a).
- ** *Taxilejeunea decurrens* Steph., Sp. Hepat. (Stephani) 5: 487, 1914 (Stephani 1914b).
- ** *Taxilejeunea deflexa* Steph., Sp. Hepat. (Stephani) 5: 502, 1914 (Stephani 1914b).
- ** *Taxilejeunea densiflora* A.Evans, Bull. Torrey Bot. Club 48 (4): 121, 1921 (Evans 1921b).
- ** *Taxilejeunea diaphana* (Lehm.) Steph., Sp. Hepat. (Stephani) 5: 463, 1914 (Stephani 1914b). Bas.: *Omphalanthus diaphanus* Lehm., Nov. Stirp. Pug. 10: 12, 1857 (Lehmann 1857).
- * *Taxilejeunea dissitifolia* Steph., Symb. Antill. 2: 472, 1901 (Stephani 1901f).
- ** *Taxilejeunea eggersiana* Schiffn., Bot. Jahrb. Syst. 23 (5): 579, 1897 (Schiffner 1897). Based on: *Taxilejeunea eggersiana* Steph., Hedwigia 27 (11/12): 285, 1888 (Stephani 1888c), *nom. inval.*
- * *Taxilejeunea elobulata* Sim, Trans. Roy. Soc. South Africa 15 (1): 66, 1926 (Sim 1926).
- ** *Taxilejeunea fissistipula* Steph., Sp. Hepat. (Stephani) 5: 488, 1914 (Stephani 1914b).
- ** *Taxilejeunea foliicola* Steph., Sp. Hepat. (Stephani) 5: 466, 1914 (Stephani 1914b).
- ** *Taxilejeunea furcicornuta* Grolle, J. Bryol. 8 (1): 93, 1974 (Grolle 1974a).
- ** *Taxilejeunea fusciorufa* Steph., Hedwigia 35 (3): 133, 1896 (Stephani 1896b).
- ** *Taxilejeunea galapagensis* Onr., Misc. Bryol. Lichenol. 9 (6): 117, 1982 (Onraedt 1982).
- * *Taxilejeunea ghatensis* P.K.Verma et S.C.Srivast., Proc. Natl. Acad. Sci. India, B 77 (2): 211, 2007 (Verma and Srivastava 2007).
- * *Taxilejeunea giulianettii* Steph., Sp. Hepat. (Stephani) 5: 502, 1914 (Stephani 1914b).
- ** *Taxilejeunea gomphocalyx* Herzog, Beih. Bot. Centralbl. 61B (3): 580, 1942 (Herzog 1942d).
- * *Taxilejeunea grandifolia* Steph., Biblioth. Bot. 87 (2): 261, 1916 (Stephani 1916a).
- * *Taxilejeunea grandistipula* Steph., Sp. Hepat. (Stephani) 5: 504, 1914 (Stephani 1914b).
- * *Taxilejeunea hamatifolia* Steph., Biblioth. Bot. 87 (2): 261, 1916 (Stephani 1916a).
- ** *Taxilejeunea himalayensis* Herzog, Ann. Bryol. 12: 86, 1939 (Herzog 1939b).
- * *Taxilejeunea immersa* Eifrig, Monogr. Stud. Indomal. Art. *Taxilejeunea*: 96, 1937 (Eifrig 1937).
- ** *Taxilejeunea irregularis* Steph., Sp. Hepat. (Stephani) 5: 490, 1914 (Stephani 1914b).
- ** *Taxilejeunea jamaicensis* A.Evans, Bull. Torrey Bot. Club 48 (4): 117, 1921 (Evans 1921b).
- ** *Taxilejeunea jeringii* Steph., Hedwigia 35 (3): 134, 1896 (Stephani 1896b).
- ** *Taxilejeunea killipii* Herzog, Feddes Repert. Spec. Nov. Regni Veg. 57 (1/2): 190, 1955 (Herzog 1955).

- * *Taxilejeunea laevis* (Gottsche) Steph., *Hedwigia* 44 (4): 229, 1905 (Stephani 1905a). Bas.: *Omphalanthus laevis* Gottsche, *Ann. Sci. Nat. Bot.* (sér. 5) 1: 148, 1864 (Gottsche 1864).
- * *Taxilejeunea langiana* Pearson, *Ann. Bryol.* 4: 102, 1931 (Pearson 1931b).
- ** *Taxilejeunea lindbergiana* Steph., *Sp. Hepat.* (Stephani) 5: 491, 1914 (Stephani 1914b).
- ** *Taxilejeunea linguifolia* Steph., *Sp. Hepat.* (Stephani) 5: 471, 1914 (Stephani 1914b).
- * *Taxilejeunea maxima* Steph., *Sp. Hepat.* (Stephani) 5: 473, 1914 (Stephani 1914b).
- ** *Taxilejeunea mexicana* Steph., *Sp. Hepat.* (Stephani) 6: 402, 1923 (Stephani 1923).
- * *Taxilejeunea microstipula* Steph., *Sp. Hepat.* (Stephani) 5: 493, 1914 (Stephani 1914b).
- * *Taxilejeunea mucronata* Steph., *Sp. Hepat.* (Stephani) 5: 473, 1914 (Stephani 1914b).
- ** *Taxilejeunea multiflora* Steph., *Hedwigia* 35 (3): 135, 1896 (Stephani 1896b).
- * *Taxilejeunea muscicola* Steph., *Biblioth. Bot.* 87 (2): 263, 1916 (Stephani 1916a).
- * *Taxilejeunea nilgiriensis* P.K.Verma et S.C.Srivast., *Proc. Natl. Acad. Sci. India, B* 77 (2): 207, 2007 (Verma and Srivastava 2007).
- ** *Taxilejeunea nymannii* Steph., *Sp. Hepat.* (Stephani) 5: 507, 1914 (Stephani 1914b).
- ** *Taxilejeunea obtusifolia* Steph., *Sp. Hepat.* (Stephani) 5: 474, 1914 (Stephani 1914b).
- ** *Taxilejeunea papuliflora* Steph., *Sp. Hepat.* (Stephani) 5: 494, 1914 (Stephani 1914b).
- ** *Taxilejeunea parvibracteata* Steph., *Hedwigia* 35 (3): 136, 1896 (Stephani 1896b).
- ** *Taxilejeunea parvistipula* Steph., *Sp. Hepat.* (Stephani) 6: 403, 1923 (Stephani 1923).
- * *Taxilejeunea paucidens* Steph., *Biblioth. Bot.* 87 (2): 263, 1916 (Stephani 1916a).
- * *Taxilejeunea pendula* Steph., *Biblioth. Bot.* 87 (2): 263, 1916 (Stephani 1916a).
- * *Taxilejeunea peruviana* Steph., *Sp. Hepat.* (Stephani) 5: 475, 1914 (Stephani 1914b).
- ** *Taxilejeunea planilobula* Herzog, *Rev. Bryol. Lichénol.* 20 (1/2): 160, 1951 [1952] (Herzog 1951a).
- ** *Taxilejeunea pulchriflora* Pearson, *Ark. Bot.* 19 (5): 15, 1924 (Pearson 1924b).
- * *Taxilejeunea pusilla* Steph., *Biblioth. Bot.* 87 (2): 264, 1916 (Stephani 1916a).
- ** *Taxilejeunea renistipula* (Lindenb.) Steph., *Hedwigia* 29 (3): 142, 1890 (Stephani 1890d). Bas.: *Omphalanthus renistipulus* Lindenb., *Syn. Hepat.* 3: 308, 1845 (Gottsche et al. 1845b).
- * *Taxilejeunea rufescens* Steph., *Biblioth. Bot.* 87 (2): 264, 1916 (Stephani 1916a).
- *** *Taxilejeunea serpillifolioides* (Raddi) D.P.Costa, *J. Bryol.* 31 (4): 230, 2009 (Costa 2009). Bas.: *Jungermannia serpillifolioides* Raddi, *Critt. Brasil.* 17, 1822 (Raddi 1822).
- ** *Taxilejeunea setchellii* Pearson, *Amer. Samoa:* 146, 1924 (Pearson 1924a).
- ** *Taxilejeunea speciosa* Herzog, *Feddes Repert. Spec. Nov. Regni Veg.* 57 (1/2): 188, 1955 (Herzog 1955).
- * *Taxilejeunea splendida* Eifrig, *Monogr. Stud. Indomal. Art. Taxilejeunea:* 88, 1937 (Eifrig 1937).
- ** *Taxilejeunea stephanii* Eifrig, *Monogr. Stud. Indomal. Art. Taxilejeunea:* 90, 1937 (Eifrig 1937). *Nom. nov. pro Hygrolejeunea nymanii* Steph., *Sp. Hepat.* (Stephani) 5: 564, 1914 (Stephani 1914b).
- ** *Taxilejeunea steyermarkii* H.Rob., *Phytologia* 34 (1): 67, 1976 (Robinson 1976a).
- ** *Taxilejeunea surinamensis* (Lindenb. et Gottsche) Steph., *Hedwigia* 29 (3): 142, 1890 (Stephani 1890d). Bas.: *Omphalanthus surinamensis* Lindenb. et Gottsche, *Linnaea* 24 (6): 628, 1851 [1852] (Lindenberg and Gottsche 1851a).

- * *Taxilejeunea suringarii* Steph., Sp. Hepat. (Stephani) 5: 479, 1914 (Stephani 1914b).
- ** *Taxilejeunea tenerima* Steph., Sp. Hepat. (Stephani) 6: 406, 1923 (Stephani 1923).
- ** *Taxilejeunea tenuiplica* Steph., Sp. Hepat. (Stephani) 5: 480, 1914 (Stephani 1914b).
- * *Taxilejeunea tjibodensis* (Steph.) Eifrig, Monogr. Stud. Indomal. Art. *Taxilejeunea*: 91, 1937 (Eifrig 1937). Bas.: *Hygrolejeunea tjibodensis* Steph., Sp. Hepat. (Stephani) 5: 571, 1914 (Stephani 1914b).
- ** *Taxilejeunea tonduzana* Steph., Sp. Hepat. (Stephani) 5: 498, 1914 (Stephani 1914b).
- * *Taxilejeunea uleana* Steph., Hedwigia 35 (3): 136, 1896 (Stephani 1896b).
- * *Taxilejeunea umbonata* Steph., Sp. Hepat. (Stephani) 5: 481, 1914 (Stephani 1914b).
- * *Taxilejeunea urbanii* Steph., Symb. Antill. (Urban) 3 (2): 278, 1902 (Stephani 1902e).
- ** *Taxilejeunea vallis-gratiae* Steph., Hedwigia 35 (3): 137, 1896 (Stephani 1896b).

✱ subtrib. *Lepidolejeuneinae* Gradst.

- *** *Lepidolejeunea* **R.M.Schust.**, Beih. Nova Hedwigia 9: 139, 1963 (Schuster 1963a).³³⁸
- ** **subg. *Kingiolejeunea* (H.Rob.) R.M.Schust.**, Phytologia 45 (5): 425, 1980 (Schuster 1980b). Bas.: *Kingiolejeunea* H.Rob., Bryologist 70 (1): 53, 1967 (Robinson 1967).
- ** *Lepidolejeunea auriculata* Schäf.-Verw. et Heinrichs, Taxon 64 (2): 224, 2015 (Heinrichs et al. 2015).
- *** *Lepidolejeunea cordifissa* (Taylor) M.E.Reiner, Nova Hedwigia 83 (3/4): 478, 2006 (Reiner-Drehwald 2006). Bas.: *Lejeunea cordifissa* Taylor, London J. Bot. 5: 395, 1846 (Taylor 1846b).
- *** *Lepidolejeunea grossepapulosa* (Steph.) Piippo, Acta Bot. Fenn. 132: 49, 1986 (Piippo 1986a). Bas.: *Prionolejeunea grossepapulosa* Steph., Sp. Hepat. (Stephani) 5: 220, 1913 (Stephani 1913a).
- *** *Lepidolejeunea involuta* (Gottsche) Grolle, J. Hattori Bot. Lab. 55: 504, 1984 (Grolle 1984a). Bas.: *Lejeunea involuta* Gottsche, Syn. Hepat. 3: 350, 1845 (Gottsche et al. 1845b).
- ** **subg. *Lepidolejeunea***
- *** *Lepidolejeunea bidentula* (Steph.) R.M.Schust., Phytologia 45 (5): 425, 1980 (Schuster 1980b). Bas.: *Pycnolejeunea bidentula* Steph., Bot. Centralbl. 60 (4): 107, 1894 (Jack and Stephani 1894).
- *** *Lepidolejeunea bidentula* var. *novae-caledoniae* Piippo, Acta Bot. Fenn. 132: 26, 1986 (Piippo 1986a).
- *** *Lepidolejeunea falcata* (Herzog) R.M.Schust., Beih. Nova Hedwigia 9: 139, 1963 (Schuster 1963a). Bas.: *Hygrolejeunea falcata* Herzog, Ark. Bot. (n.ser.) 3 (3): 57, 1953 (Herzog 1953a).

338 *Lepidolejeunea* includes *Kingiolejeunea*, but one taxon has neither been transferred nor synonymized. It is listed in the “Names in genera not currently accepted” section below.

- *** *Lepidolejeunea graeffei* (J.B.Jack et Steph.) R.M.Schust., *Phytologia* 45 (5): 425, 1980 (Schuster 1980b). Bas.: *Archilejeunea graeffei* J.B.Jack et Steph., *Bot. Centralbl.* 60 (4): 104, 1894 (Jack and Stephani 1894).
- *** *Lepidolejeunea integristipula* (J.B.Jack et Steph.) R.M.Schust., *Phytologia* 45 (5): 425, 1980 (Schuster 1980b). Bas.: *Pycnolejeunea integristipula* J.B.Jack et Steph., *Bot. Centralbl.* 60 (4): 107, 1894 (Jack and Stephani 1894).
- ** **subg. *Perilejeunea* (Kachroo et R.M.Schust.) R.M.Schust.**, *Phytologia* 45 (5): 424, 1980 (Schuster 1980b). Bas.: *Pycnolejeunea* subg. *Perilejeunea* Kachroo et R.M.Schust., *J. Linn. Soc., Bot.* 56 (368): 493, 1961 (Kachroo and Schuster 1961).
- ** *Lepidolejeunea cuspidata* (Gottsche) Heinrichs et Schäf.-Verw., *Taxon* 64 (2): 224, 2015 (Heinrichs et al. 2015). Bas.: *Lejeunea cuspidata* Gottsche, *Syn. Hepat.* 3: 351, 1845 (Gottsche et al. 1845b).
- *** *Lepidolejeunea delessertii* (Nees et Mont.) Grolle, *J. Hattori Bot. Lab.* 55: 505, 1984 (Grolle 1984a). Bas.: *Lejeunea delessertii* Nees et Mont., *Ann. Sci. Nat. Bot. (sér. 2)* 19: 260, 1843 (Montagne 1843).
- *** *Lepidolejeunea eluta* (Nees) R.M.Schust., *Beih. Nova Hedwigia* 9: 139, 1963 (Schuster 1963a). Bas.: *Jungermannia eluta* Nees, *Fl. Bras. (Martius)* 1 (1): 362, 1833 (Nees 1833a).
- *** *Lepidolejeunea serrulata* (Steph.) Grolle, *J. Hattori Bot. Lab.* 55: 505, 1984 (Grolle 1984a). Bas.: *Trachylejeunea serrulata* Steph., *Sp. Hepat. (Stephani)* 5: 300, 1913 (Stephani 1913a).
- *** *Lepidolejeunea sullivantii* (Gottsche) M.E.Reiner, *Nova Hedwigia* 83 (3/4): 479, 2006 (Reiner-Drehwald 2006). Bas.: *Lejeunea sullivantii* Gottsche, *Mexik. Levern.*: 196, 1863 (Gottsche 1863).

Incertae sedis

- *** *Lepidolejeunea borneensis* (Steph.) R.M.Schust., *Phytologia* 45 (5): 425, 1980 (Schuster 1980b). Bas.: *Hygrolejeunea borneensis* Steph., *Sp. Hepat. (Stephani)* 5: 557, 1914 (Stephani 1914b).
- *** *Lepidolejeunea longilobula* (Amakawa) Xiao L.He, *Acta Bot. Fenn.* 163: 59, 1999 (He 1999). Bas.: *Pycnolejeunea longilobula* Amakawa, *J. Jap. Bot.* 40 (10): 307, 1965 (Amakawa 1965).
- *** ***Otolejeunea* Grolle et Tixier**, *Nova Hedwigia* 32: 609, 1980 (Tixier 1980b).
- *** **subg. *Allorgella* (Tixier) Grolle**, *Haussknechtia* 2: 53, 1985 (Grolle 1985a). Bas.: *Allorgella* Tixier, *Nova Hedwigia* 32: 612, 1980 (Tixier 1980b).
- *** *Otolejeunea australiensis* B.M.Thiers, *Brittonia* 44 (2): 162, 1992 (Thiers 1992a).
- *** *Otolejeunea hoana* (Tixier) Grolle, *Haussknechtia* 2: 54, 1985 [1986] (Grolle 1985a). Bas.: *Allorgella hoana* Tixier, *Nova Hedwigia* 32: 615, 1980 (Tixier 1980b).
- *** *Otolejeunea rabenorii* Tixier, *Nova Hedwigia* 46 (3/4): 376, 1988 (Tixier 1988).
- *** *Otolejeunea schmidii* (Tixier) Grolle, *Haussknechtia* 2: 54, 1985 [1986] (Grolle 1985a). Bas.: *Allorgella schmidii* Tixier, *Nova Hedwigia* 32: 613, 1980 (Tixier 1980b).

- *** *Otolejeunea schnellii* (Tixier) R.L.Zhu et M.L.So, Ann. Bot. Fenn. 34 (4): 287, 1997 (Zhu and So 1997a). Bas.: *Allorgella schnellii* Tixier, Cryptog. Bryol. Lichenol. 16 (3): 230, 1995 (Tixier 1995a).
- *** *Otolejeunea semperiana* (Steph.) Grolle, Haussknechtia 2: 53, 1985 [1986] (Grolle 1985a). Bas.: *Prionolejeunea semperiana* Steph., Sp. Hepat. (Stephani) 5: 227, 1913 (Stephani 1913a).
- ** *Otolejeunea subana* Pocs, Acta Acad. Ped. Agr., Sect. Biol. 25: 50, 2004 (Pocs 2004).
- *** *Otolejeunea zantenii* Grolle, Haussknechtia 2: 54, 1985 [1986] (Grolle 1985a).
- *** **subg. *Otolejeunea***
- *** *Otolejeunea moniliata* Grolle, Nova Hedwigia 32: 609, 1980 (Tixier 1980b). World checklist of hornworts and liverworts 353
- *** **subg. *Phoxolejeunea* Grolle**, Haussknechtia 2: 49, 1985 (Grolle 1985a).
- ** *Otolejeunea philippinensis* R.L.Zhu et M.L.So, Syst. Bot. 23 (2): 231, 1998 (Zhu and So 1998).
- *** *Otolejeunea streimannii* Grolle, Haussknechtia 2: 49, 1985 [1986] (Grolle 1985a).
- *** ***Rectolejeunea* A.Evans**, Bull. Torrey Bot. Club 33 (1): 8, 1906 (Evans 1906a).
- * *Rectolejeunea colombiana* R.M.Schust., J. Hattori Bot. Lab. 89: 146, 2000 (Schuster 2000c).
- *** *Rectolejeunea emarginuliflora* (Schiffn.) A.Evans, Bull. Torrey Bot. Club 33 (1): 14, 1906 (Evans 1906a). Bas.: *Cheilolejeunea emarginuliflora* Schiffn., Bot. Jahrb. Syst. 23 (5): 585, 1897 (Schiffner 1897).
- *** *Rectolejeunea flagelliformis* A.Evans, Bull. Torrey Bot. Club 33 (1): 9, 1906 (Evans 1906a).
- * *Rectolejeunea flagelliformis* subsp. *hamata* R.M.Schust., J. Hattori Bot. Lab. 89: 137, 2000 (Schuster 2000c).
- *** *Rectolejeunea queenslandica* (B.M.Thiers) Xiao L.He, Ann. Bot. Fenn. 34 (2): 129, 1997 (He 1997). Bas.: *Lepidolejeunea queenslandica* B.M.Thiers, Mem. New York Bot. Gard. 45: 556, 1987 (Thiers 1987a).
- ** *Rectolejeunea truncatilobula* C.J.Bastos, J. Bryol. 34 (2): 144, 2012 (Bastos 2012a).
- *** *Rectolejeunea versifolia* (Schiffn.) L.Söderstr. et A.Hagborg, Phytotaxa 220 (2): 188, 2015 (Söderström et al. 2015a). Bas.: *Cheilolejeunea versifolia* Schiffn., Bot. Jahrb. Syst. 23 (5): 597, 1897 (Schiffner 1897).

Excluded from the genus

- * *Rectolejeunea lindenbergii* Steph., Sp. Hepat. (Stephani) 5: 689, 1914 (Stephani 1914b).³³⁹

339 *Rectolejeunea lindenbergii* is a *Lejeunea* species (Reiner-Drehwald and Grolle 2012; non *Lejeunea lindenbergii* Gottsche). However, it may be conspecific with something else.

- * *Rectolejeunea lindigiana* Steph., Sp. Hepat. (Stephani) 5: 690, 1914 (Stephani 1914b).³⁴⁰
- * *Rectolejeunea pachyderma* R.M.Schust., J. Hattori Bot. Lab. 89: 148, 2000 (Schuster 2000c).³⁴¹

- ** subtrib. *Leptolejeuneinae* Heinrichs et Schäf.-Verw.

- *** ***Leptolejeunea* (Spruce) Steph.**, Hedwigia 30 (6): 270, 1891 (Stephani 1891c). Bas.: *Lejeunea* subg. *Leptolejeunea* Spruce, Trans. & Proc. Bot. Soc. Edinburgh 15: 193, 1884 (Spruce 1884).
- *** *Leptolejeunea amphiophthalmalma* Zwickel, Ann. Bryol. 6: 117, 1933 (Zwickel 1933).
- ** *Leptolejeunea apiculata* (Horik.) S.Hatt., J. Hattori Bot. Lab. 5: 46, 1951 (Hattori 1951d). Bas.: *Drepanolejeunea apiculata* Horik., J. Sci. Hiroshima Univ., Ser. B, Div. 2, Bot. 2: 266, 1934 (Horikawa 1934).
- ** *Leptolejeunea arunachalensis* Sudipa Das et D.K.Singh, J. Jap. Bot. 83 (6): 343, 2008 (Das and Singh 2008).
- *** *Leptolejeunea astroidea* (Mitt.) Steph., Sp. Hepat. (Stephani) 5: 363, 1913 (Stephani 1913a). Bas.: *Lejeunea astroidea* Mitt., Trans. Linn. Soc. London 23 (1): 58, 1860 (Mitten 1860a).
- ** *Leptolejeunea australis* Steph., Sp. Hepat. (Stephani) 5: 389, 1913 (Stephani 1913a). Based on: *Leptolejeunea australis* Steph., Hedwigia 28 (3): 173, 1889 (Stephani 1889d), *nom. inval.*
- ** *Leptolejeunea balansae* Steph., Hedwigia 35 (3): 105, 1896 (Stephani 1896b).
- * *Leptolejeunea borneensis* Herzog, Flora 135: 394, 1942 (Herzog 1942c).³⁴²
- ** *Leptolejeunea brasiliensis* Bischl., Nova Hedwigia 17: 301, 1969 (Bischler 1969).
- * *Leptolejeunea convexistipa* Bischl., Nova Hedwigia 17: 325, 1969 (Bischler 1969).
- * *Leptolejeunea curvatifolia* Steph., Sp. Hepat. (Stephani) 6: 398, 1923 (Stephani 1923).³⁴³
- ** *Leptolejeunea denticulata* Steph., Sp. Hepat. (Stephani) 5: 389, 1913 (Stephani 1913a). Based on: *Leptolejeunea denticulata* Steph., Hedwigia 28 (3): 174, 1889 (Stephani 1889d), *nom. inval.*
- ** *Leptolejeunea dentistipula* Steph., Sp. Hepat. (Stephani) 5: 379, 1913 (Stephani 1913a).
- ** *Leptolejeunea diversilobulata* Bischl., Nova Hedwigia 17: 313, 1969 (Bischler 1969).
- ** *Leptolejeunea dolabrififormis* Pearson, J. Linn. Soc., Bot. 46 (305): 37, 1922 (Pearson 1922b).

340 *Rectolejeunea lindigiana* is a *Lejeunea* species of doubtful status (Reiner-Drehwald and Grolle 2012).

341 *Rectolejeunea pachyderma* is a *Lejeunea* species of doubtful status (Reiner-Drehwald and Grolle 2012).

342 *Leptolejeunea borneensis* may be conspecific with *Leptolejeunea vitrea*.

343 *Leptolejeunea curvatifolia* is possibly conspecific with *Drepanolejeunea thwaitesiana*, but the type specimen was burned in B and the identity can not be ascertained (Grolle and Piippo 1984).

- *** *Leptolejeunea elliptica* (Lehm. et Lindenb.) Besch., Rev. Bryol. 19 (1): 14, 1892 (Bescherelle 1892). Bas.: *Jungermannia elliptica* Lehm. et Lindenb., Nov. Stirp. Pug. 5: 13, 1833 (Lehmann 1833).
- * *Leptolejeunea emarginata* (Horik.) S.Hatt., J. Hattori Bot. Lab. 5: 46, 1951 (Hattori 1951d). Bas.: *Drepanolejeunea emarginata* Horik., J. Sci. Hiroshima Univ., Ser. B, Div. 2, Bot. 2: 267, 1934 (Horikawa 1934).³⁴⁴
- *** *Leptolejeunea epiphylla* (Mitt.) Steph., Sp. Hepat. (Stephani) 5: 380, 1913 (Stephani 1913a). Bas.: *Lejeunea epiphylla* Mitt., J. Proc. Linn. Soc., Bot. 5 (18): 118, 1860 [1861] (Mitten 1860c).
- *** *Leptolejeunea exocellata* (Spruce) A.Evans, Bull. Torrey Bot. Club 29 (8): 498, 1902 (Evans 1902c). Bas.: *Lejeunea exocellata* Spruce, Trans. & Proc. Bot. Soc. Edinburgh 15: 195, 1884 (Spruce 1884).
- ** *Leptolejeunea foliicola* Steph., Hedwigia 35 (3): 106, 1896 (Stephani 1896b).
- ** *Leptolejeunea integrispula* Steph., Sp. Hepat. (Stephani) 6: 398, 1923 (Stephani 1923).
- * *Leptolejeunea jamaicensis* R.M.Schust., J. Elisha Mitchell Sci. Soc. 83 (4): 229, 1967 (Schuster 1967a).
- ** *Leptolejeunea lancifolia* Steph., Sp. Hepat. (Stephani) 5: 382, 1913 (Stephani 1913a). *Nom. nov. pro Lejeunea lancifolia* Mitt., Fl. vit.: 415, 1871 [1873] (Mitten 1871), *nom. illeg.*
- ** *Leptolejeunea latifolia* Herzog, Memoranda Soc. Fauna Fl. Fennica 26: 58, 1950 [1951] (Herzog 1950b).
- ** *Leptolejeunea lepinii* Steph., Sp. Hepat. (Stephani) 5: 383, 1913 (Stephani 1913a).
- ** *Leptolejeunea ligulata* Herzog, Flora 135: 429, 1942 (Herzog 1942c).
- *** *Leptolejeunea maculata* (Mitt.) Schiffn., Consp. Hepat. Arch. Ind.: 275, 1898 (Schiffner 1898b). Bas.: *Lejeunea maculata* Mitt., J. Proc. Linn. Soc., Bot. 5 (18): 118, 1860 [1861] (Mitten 1860c).
- * *Leptolejeunea massartiana* Schiffn. ex Herzog, Flora 135: 421, 1942 (Herzog 1942c).³⁴⁵
- ** *Leptolejeunea micronesica* Inoue et H.A.Mill., Bull. Natl. Sci. Mus. Tokyo (n.ser.) 8 (2): 149, 1965 (Inoue and Miller 1965).
- ** *Leptolejeunea minima* Herzog, Memoranda Soc. Fauna Fl. Fennica 26: 60, 1950 [1951] (Herzog 1950b).
- ** *Leptolejeunea mirikana* M.Dey et D.K.Singh, Taiwania 55 (4): 355, 2010 (Dey and Singh 2010).
- *** *Leptolejeunea moniliata* Steph., Sp. Hepat. (Stephani) 5: 371, 1913 (Stephani 1913a).
- *** *Leptolejeunea obfuscata* (Spruce) Steph., Sp. Hepat. (Stephani) 5: 373, 1913 (Stephani 1913a). Bas.: *Lejeunea obfuscata* Spruce, Trans. & Proc. Bot. Soc. Edinburgh 15: 579, 1885 (Spruce 1885).
- * *Leptolejeunea punctata* Herzog, Flora 135: 432, 1942 (Herzog 1942c).

344 *Leptolejeunea emarginata* is possibly conspecific with *Leptolejeunea apiculata* (Zhu and So 2001).

345 *Leptolejeunea massartiana* is very possibly conspecific with *Leptolejeunea elliptica* judging from the original description and illustration (Söderström et al. 2010a).

- *** *Leptolejeunea radicata* (Nees ex Mont.) Grolle, J. Hattori Bot. Lab. 45: 178, 1979 (Grolle 1979c). Bas.: *Lejeunea radicata* Nees ex Mont., Hist. Phys. Cuba, Bot., Pl. Cell.: 475, 1842 (Montagne 1842a).
- * *Leptolejeunea renneri* Herzog, Flora 135: 422, 1942 (Herzog 1942c).
- * *Leptolejeunea revoluta* P.C.Chen, Feddes Repert. Spec. Nov. Regni Veg. 58: 44, 1955 (Chen 1955).³⁴⁶
- ** *Leptolejeunea rosulans* Steph., Sp. Hepat. (Stephani) 5: 390, 1913 (Stephani 1913a). Based on: *Leptolejeunea rosulans* Steph., Hedwigia 28 (3): 174, 1889 (Stephani 1889d), *nom. inval.*
- ** *Leptolejeunea serratifolia* Schiffn., Bot. Jahrb. Syst. 23 (5): 594, 1897 (Schiffner 1897).
- ** *Leptolejeunea serrulata* Herzog, Flora 135: 426, 1942 (Herzog 1942c).
- ** *Leptolejeunea spinistipula* (Mizut.) Xiao L.He, Ann. Bot. Fenn. 34 (2): 127, 1997 (He 1997). Bas.: *Pycnolejeunea spinistipula* Mizut., J. Hattori Bot. Lab. 33: 255, 1970 (Mizutani 1970).
- ** *Leptolejeunea subdentata* Schiffn. ex Herzog, Flora 135: 403, 1942 (Herzog 1942c).
- *** *Leptolejeunea subrotundifolia* Herzog, Flora 135: 424, 1942 (Herzog 1942c).
- *** *Leptolejeunea tridentata* Bischl., Nova Hedwigia 17: 335, 1969 (Bischler 1969).
- * *Leptolejeunea trigonostipa* (Spruce) Steph., Sp. Hepat. (Stephani) 5: 376, 1913 (Stephani 1913a). Bas.: *Lejeunea trigonostipa* Spruce, Trans. & Proc. Bot. Soc. Edinburgh 15: 197, 1884 (Spruce 1884).
- ** *Leptolejeunea tripuncta* (Mitt.) Steph., Sp. Hepat. (Stephani) 5: 388, 1913 (Stephani 1913a). Bas.: *Lejeunea tripuncta* Mitt., Fl. vit.: 415, 1871 [1873] (Mitten 1871).
- ** *Leptolejeunea truncatifolia* Steph., Sp. Hepat. (Stephani) 5: 388, 1913 (Stephani 1913a).
- * *Leptolejeunea udarii* M.Dey et D.K.Singh, Taiwania 55 (4): 359, 2010 (Dey and Singh 2010).³⁴⁷
- *** *Leptolejeunea vitrea* (Nees) Schiffn., Hepat. (Engl.-Prantl): 126, 1893 (Schiffner 1893b). Bas.: *Jungermannia vitrea* Nees, Enum. Pl. Crypt. Javae: 56, 1830 (Nees 1830).

** subtrib. *Pycnolejeuneinae* Heinrichs et Schäf.Verw.

- ** ***Pycnolejeunea* (Spruce) Schiffn.**, Hepat. (Engl.-Prantl): 124, 1893 (Schiffner 1893b). Bas.: *Lejeunea* subg. *Pycnolejeunea* Spruce, Trans. & Proc. Bot. Soc. Edinburgh 15: 246, 1884 (Spruce 1884).
- * *Pycnolejeunea anotomensis* Tixier, Bull. Soc. Hist. Nat. Afrique N. 63: 10, 1972 (Tixier 1972a).³⁴⁸
- ** *Pycnolejeunea borneensis* Steph., Sp. Hepat. (Stephani) 5: 632, 1914 (Stephani 1914b).

346 *Leptolejeunea revoluta* may be conspecific with *Leptolejeunea elliptica* (Zhu and So 2001).

347 *Leptolejeunea udarii* is possibly conspecific with *Leptolejeunea latifolia* (He et al. 2013).

348 *Pycnolejeunea anotomensis* is a *Cheilolejeunea* species.

- * *Pycnolejeunea cavistipula* (Steph.) Mizut., J. Hattori Bot. Lab. 36: 161, 1972 [1973] (Mizutani 1972a). Bas.: *Strepsilejeunea cavistipula* Steph., Hedwigia 35 (3): 128, 1896 (Stephani 1896b).³⁴⁹
- * *Pycnolejeunea connivens* Schiffn. ex P.Syd., Just's Bot. Jahresber. 19: 246, 1894 (Sydow 1894). Based on: *Pycnolejeunea connivens* Gottsche ex Schiffn., Leberm., Forschungsr. Gazelle 4 (4): 32, 1890 (Schiffner 1890), *nom. inval.*
- *** *Pycnolejeunea contigua* (Nees) Grolle, J. Hattori Bot. Lab. 45: 179, 1979 (Grolle 1979c). Bas.: *Jungermannia contigua* Nees, Fl. Bras. (Martius) 1 (1): 360, 1833 (Nees 1833a).
- * *Pycnolejeunea convexifolia* (Mitt.) Steph., Sp. Hepat. (Stephani) 5: 636, 1914 (Stephani 1914b). Bas.: *Lejeunea convexifolia* Mitt., Fl. vit.: 416, 1871 [1873] (Mitten 1871).³⁵⁰
- *** *Pycnolejeunea decurviloba* Steph., Hedwigia 35 (3): 125, 1896 (Stephani 1896b).
- *** *Pycnolejeunea densistipula* (Lehm. et Lindenb.) Steph., Sp. Hepat. (Stephani) 5: 602, 1914 (Stephani 1914b). Bas.: *Lejeunea densistipula* Lehm. et Lindenb., Nov. Stirp. Pug. 7: 20, 1838 (Lehmann 1838).
- ** *Pycnolejeunea gradsteinii* Ilk.-Borg., Bol. Inst. Bot. (São Paulo) 21 (1): 1, 2011 (Ilkiu-Borges 2011).
- ** *Pycnolejeunea grandiocellata* Steph., Bot. Tidsskr. 24 (3): 279, 1902 (Stephani 1902b).
- * *Pycnolejeunea grossiloba* Steph., Sp. Hepat. (Stephani) 5: 629, 1914 (Stephani 1914b).³⁵¹
- *** *Pycnolejeunea macroloba* (Nees et Mont.) Schiffn., Hepat. (Engl.-Prantl): 124, 1893 (Schiffner 1893b). Bas.: *Lejeunea macroloba* Nees et Mont., Ann. Sci. Nat. Bot. (sér. 2) 19: 260, 1843 (Montagne 1843).
- *** *Pycnolejeunea monophthalma* (R.M.Schust.) Xiao L.He, Acta Bot. Fenn. 163: 52, 1999 (He 1999). Bas.: *Trachylejeunea monophthalma* R.M.Schust., Bull. Torrey Bot. Club 97 (6): 345, 1970 [1971] (Schuster 1970b).
- ** *Pycnolejeunea novae-caledoniae* (Steph.) Horik., Acta Phytotax. Geobot. 13: 214, 1943 (Horikawa 1943). Bas.: *Archilejeunea novae-caledoniae* Steph., Sp. Hepat. (Stephani) 4: 729, 1911 (Stephani 1911e).
- * *Pycnolejeunea palmicola* Steph., Sp. Hepat. (Stephani) 6: 413, 1923 (Stephani 1923).³⁵²
- *** *Pycnolejeunea papillosa* Xiao L.He, Acta Bot. Fenn. 163: 55, 1999 (He 1999).
- ** *Pycnolejeunea porrectilobula* C.J.Bastos et O.Yano, Nova Hedwigia 74 (3/4): 440, 2002 (Bastos and Yano 2002).
- ** *Pycnolejeunea retusa* R.M.Schust., J. Hattori Bot. Lab. 100: 402, 2006 (Schuster 2006).
- * *Pycnolejeunea schlimiana* Steph., Sp. Hepat. (Stephani) 5: 615, 1914 (Stephani 1914b).³⁵³

349 *Pycnolejeunea cavistipula* is possibly a *Cheilolejeunea* species.

350 *Pycnolejeunea convexifolia* is possibly conspecific with *Cheilolejeunea imbricata*.

351 *Pycnolejeunea grossiloba* is a *Cheilolejeunea* species, but its taxonomic status is unclear (Grolle and Piippo 1984).

352 *Pycnolejeunea palmicola* is not a *Pycnolejeunea* species.

353 *Pycnolejeunea schlimiana* is not a *Pycnolejeunea* species.

- *** *Pycnolejeunea schwaneckeii* (Steph.) Schiffn. ex P.Syd., Just's Bot. Jahresber. 19: 246, 1894 (Sydow 1894). Bas.: *Lejeunea schwaneckeii* Steph., Hedwigia 27 (11/12): 290, 1888 (Stephani 1888c).
- ** *Pycnolejeunea sphaeroides* (Sande Lac.) J.B.Jack et Steph., Bot. Centralbl. 60 (4): 107, 1894 (Jack and Stephani 1894). Bas.: *Lejeunea sphaeroides* Sande Lac., Ann. Mus. Bot. Lugduno-Batavi 1: 309, 1864 (Sande Lacoste 1864).
- ✧ subtrib. *Xylolejeuneinae* Heinrichs et Schäf.Verw.
- *** *Xylolejeunea* **Xiao L.He et Grolle**, Ann. Bot. Fenn. 38 (1): 27, 2001 (He and Grolle 2001).
- *** *Xylolejeunea aquarius* (Spruce) Xiao L.He et Grolle, Ann. Bot. Fenn. 38 (1): 29, 2001 (He and Grolle 2001). Bas.: *Lejeunea aquarius* Spruce, Trans. & Proc. Bot. Soc. Edinburgh 15: 185, 1884 (Spruce 1884).
- *** *Xylolejeunea crenata* (Nees et Mont.) Xiao L.He et Grolle, Ann. Bot. Fenn. 38 (1): 36, 2001 (He and Grolle 2001). Bas.: *Lejeunea crenata* Nees et Mont., Ann. Sci. Nat. Bot. (sér. 2) 9: 48, 1838 (Montagne 1838).
- *** *Xylolejeunea grolleana* (Pócs) Xiao L.He et Grolle, Ann. Bot. Fenn. 38 (1): 32, 2001 (He and Grolle 2001). Bas.: *Trachylejeunea grolleana* Pócs, Haussknechtia, Beih. 9: 285, 1999 (Pócs 1999).
- *** *Xylolejeunea muricella* Xiao L.He et Grolle, Ann. Bot. Fenn. 38 (1): 34, 2001 (He and Grolle 2001).
- ✧ trib. *Symbiezidieae* Gradst.
- *** *Symbiezidium* **Trevis.**, Mem. Reale Ist. Lombardo Sci. (Ser. 3), C. Sci. Mat. 4 (13): 402, 1877 (Trevisan 1877).
- *** *Symbiezidium barbiflorum* (Lindenb. et Gottsche) A.Evans, Bull. Torrey Bot. Club 34 (11): 540, 1907 [1908] (Evans 1907a). Bas.: *Lejeunea barbiflora* Lindenb. et Gottsche, Linnaea 24 (6): 630, 1851 [1852] (Lindenberg and Gottsche 1851a).
- *** *Symbiezidium dentatum* Herzog, Feddes Repert. Spec. Nov. Regni Veg. 57 (1/2): 175, 1955 (Herzog 1955).
- *** *Symbiezidium madagascariense* Steph., Sp. Hepat. (Stephani) 5: 99, 1912 (Stephani 1912c).
- *** *Symbiezidium transversale* (Sw.) Trevis., Mem. Reale Ist. Lombardo Sci. (Ser. 3), C. Sci. Mat. 4 (13): 403, 1877 (Trevisan 1877). Bas.: *Jungermannia transversalis* Sw., Prodr. (Swartz): 144, 1788 (Swartz 1788).
- *** *Symbiezidium transversale* var. *hookerianum* (Gottsche, Lindenb. et Nees) Gradst. et J.Beek, Beih. Nova Hedwigia 80: 237, 1985 (Gradstein and van Beek 1985). Bas.: *Lejeunea transversalis* β *hookeriana* Gottsche, Lindenb. et Nees, Syn. Hepat. 3: 311, 1845 (Gottsche et al. 1845b).

*** Ptychanthoideae Mizut.

*** *Acrolejeunea* (Spruce) Schiffn., Hepat. (Engl.-Prantl): 128, 1893 (Schiffner 1893b) nom. conserv. Bas.: *Lejeunea* subg. *Acrolejeunea* Spruce, Trans. & Proc. Bot. Soc. Edinburgh 15: 115, 1884 (Spruce 1884).

*** *Acrolejeunea sandvicensis* (Gottsche) Steph., Bot. Jahrb. Syst. 23 (1/2, 3): 312, 1896 (Stephani 1896a). Bas.: *Phragmicoma sandvicensis* Gottsche, Ann. Sci. Nat. Bot. (sér. 4) 8: 344, 1857 (Gottsche 1857).

** sect. *Acrolejeunea*

*** *Acrolejeunea emergens* (Mitt.) Steph., Pflanzenw. Ost-Afrikas C: 65, 1895 (Stephani 1895d). Bas.: *Phragmicoma emergens* Mitt., Philos. Trans. 168: 397, 1879 (Mitten 1879).

*** *Acrolejeunea emergens* var. *confertissima* (Steph.) Gradst., Bryophyt. Biblioth. 4: 76, 1975 (Gradstein 1975). Bas.: *Acrolejeunea confertissima* Steph., Hedwigia 31 (4): 165, 1892 (Stephani 1892g).

*** *Acrolejeunea heterophylla* (A.Evans) Grolle et Gradst., J. Hattori Bot. Lab. 38: 332, 1974 (Gradstein 1974a). Bas.: *Ptychocoleus heterophyllus* A.Evans, Amer. J. Bot. 5 (3): 144, 1918 (Evans 1918).

*** *Acrolejeunea torulosa* (Lehm. et Lindenb.) Schiffn., Hepat. (Engl.-Prantl): 128, 1893 (Schiffner 1893b). Bas.: *Jungermannia torulosa* Lehm. et Lindenb., Nov. Stirp. Pug. 6: 41, 1834 (Lehmann 1834).

** sect. *Minores* (Verd.) L.Söderstr. et A.Hagborg, Bryophyte Diversity Evol. 36 (1): 41, 2014 (Wang et al. 2014b). Bas.: *Ptychocoleus* sect. *Minores* Verd., Ann. Bryol., Suppl. 4: 132, 1934 (Verdoorn 1934a).

*** *Acrolejeunea arcuata* (Nees) Grolle et Gradst., J. Hattori Bot. Lab. 38: 332, 1974 (Gradstein 1974a). Bas.: *Jungermannia arcuata* Nees, Enum. Pl. Crypt. Javae: 38, 1830 (Nees 1830).

** *Acrolejeunea arcuata* subsp. *gradsteinii* M.A.M.Renner, Phytotaxa 83 (1): 42, 2013 (Renner 2013).

*** *Acrolejeunea fertilis* (Reinw., Blume et Nees) Schiffn., Hepat. (Engl.-Prantl): 128, 1893 (Schiffner 1893b). Bas.: *Jungermannia fertilis* Reinw., Blume et Nees, Nova Acta Phys.-Med. Acad. Caes. Leop.-Carol. Nat. Cur. 12 (1): 211, 1824 [1825] (Reinwardt et al. 1824a).

*** *Acrolejeunea parvula* (Mizut.) Gradst., Bryophyt. Biblioth. 4: 115, 1975 (Gradstein 1975). Bas.: *Ptychocoleus parvulus* Mizut., Dansk Bot. Ark. 27 (1): 97, 1969 (Hattori and Mizutani 1969).

*** *Acrolejeunea pycnoclada* (Taylor) Schiffn., Hepat. (Engl.-Prantl): 128, 1893 (Schiffner 1893b). Bas.: *Ptychanthus pycnocladus* Taylor, London J. Bot. 5: 385, 1846 (Taylor 1846b).

*** *Acrolejeunea pycnoclada* subsp. *latistipula* Gradst., Bryophyt. Biblioth. 4: 113, 1975 (Gradstein 1975).

- *** *Acrolejeunea tjibodensis* (Verd.) Grolle et Gradst., J. Hattori Bot. Lab. 38: 333, 1974 (Gradstein 1974a). Bas.: *Ptychocoleus tjibodensis* Verd., Recueil Trav. Bot. Neerl. 30: 227, 1933 (Verdoorn 1933b).
- ** **sect. *Pusillae* Gradst.**, Bryophyt. Biblioth. 4: 59, 1975 (Gradstein 1975).
- *** *Acrolejeunea pusilla* (Steph.) Grolle et Gradst., J. Hattori Bot. Lab. 38: 332, 1974 (Gradstein 1974a). Bas.: *Archilejeunea pusilla* Steph., Sp. Hepat. (Stephani) 4: 731, 1911 (Stephani 1911e).
- *** *Acrolejeunea sikkimensis* (Mizut.) Gradst., Bryophyt. Biblioth. 4: 83, 1975 (Gradstein 1975). Bas.: *Ptychocoleus sikkimensis* Mizut., Fl. E. Himalaya: 532, 1966 (Hattori 1966c).
- ** **sect. *Recurvatae* Jian Wang bis et Gradst.**, Bryophyte Diversity Evol. 36 (1): 39, 2014 (Wang et al. 2014b).
- *** *Acrolejeunea recurvata* Gradst., Bryophyt. Biblioth. 4: 79, 1975 (Gradstein 1975).
- ** **sect. *Regulares* (Verd.) Gradst.**, Bryophyt. Biblioth. 4: 63, 1975 (Gradstein 1975). Bas.: *Ptychocoleus* sect. *Regulares* Verd., Ann. Bryol., Suppl. 4: 143, 1934 (Verdoorn 1934a).
- *** *Acrolejeunea allisonii* Gradst., Bryophyt. Biblioth. 4: 103, 1975 (Gradstein 1975).
- *** *Acrolejeunea aulacophora* (Mont.) Steph., Bot. Jahrb. Syst. 20 (3): 317, 1895 (Stephani 1895a). Bas.: *Phragmicoma aulacophora* Mont., Ann. Sci. Nat. Bot. (sér. 2) 19: 259, 1843 (Montagne 1843).
- *** *Acrolejeunea mollis* (Hook.f. et Taylor) Schiffn., Hedwigia 33 (4): 178, 1894 (Schiffner 1894). Bas.: *Ptychanthus mollis* Hook.f. et Taylor, London J. Bot. 5: 384, 1846 (Taylor 1846b).
- *** *Acrolejeunea securifolia* (Nees) Steph., Hedwigia 34 (2): 59, 1895 (Stephani 1895c). Bas.: *Jungermannia securifolia* Nees, Prodr. Fl. Norfolk.: 5, 1833 (Endlicher 1833).
- *** *Acrolejeunea securifolia* subsp. *caledonica* (Steph.) Gradst., Bryophyt. Biblioth. 4: 100, 1975 (Gradstein 1975). Bas.: *Ptychocoleus caledonicus* Steph., Sp. Hepat. (Stephani) 5: 39, 1912 (Stephani 1912c).
- *** *Acrolejeunea securifolia* subsp. *hartmannii* (Steph.) Gradst., Bryophyt. Biblioth. 4: 99, 1975 (Gradstein 1975). Bas.: *Ptychocoleus hartmannii* Steph., Sp. Hepat. (Stephani) 5: 44, 1912 (Stephani 1912c).
- *** *Acrolejeunea securifolia* subsp. *pallida* (Ångstr.) Gradst., Bryophyt. Biblioth. 4: 101, 1975 (Gradstein 1975). Bas.: *Phragmicoma pallida* Ångstr., Öfvers. Kongl. Vetensk.-Akad. Förh. 30 (5): 132, 1873 (Ångström 1873).
- ** **sect. *Trocholejeunea* (Schiffn.) Jian Wang bis et Gradst.**, Bryophyte Diversity Evol. 36 (1): 38, 2014 (Wang et al. 2014b). Bas.: *Trocholejeunea* Schiffn., Ann. Bryol. 5: 160, 1932 (Dixon et al. 1932).

- *** *Acrolejeunea crassicaulis* (Steph.) Jian Wang bis et Gradst., Bryophyte Diversity Evol. 36 (1): 38, 2014 (Wang et al. 2014b). Bas.: *Hygrolejeunea crassicaulis* Steph., Sp. Hepat. (Stephani) 5: 550, 1914 (Stephani 1914b).
- *** *Acrolejeunea infuscata* (Mitt.) Jian Wang bis et Gradst., Bryophyte Diversity Evol. 36 (1): 38, 2014 (Wang et al. 2014b). Bas.: *Lejeunea infuscata* Mitt., J. Proc. Linn. Soc., Bot. 5 (18): 111, 1860 [1861] (Mitten 1860c).
- ** *Acrolejeunea meghalayensis* (Ajit P.Singh et V.Nath) Jian Wang bis et Gradst., Bryophyte Diversity Evol. 36 (1): 39, 2014 (Wang et al. 2014b). Bas.: *Trocholejeunea meghalayensis* Ajit P.Singh et V.Nath, J. Jap. Bot. 83 (1): 2, 2008 (Singh and Nath 2008).
- ** *Acrolejeunea sinensis* (Jian Wang bis, R.L.Zhu et Gradst.) Jian Wang bis et Gradst., Bryophyte Diversity Evol. 36 (1): 39, 2014 (Wang et al. 2014b). Bas.: *Trocholejeunea sinensis* Jian Wang bis, R.L.Zhu et Gradst., Phytotaxa 174 (5): 296, 2014 (Wang et al. 2014c).

Excluded from the genus

- * *Acrolejeunea abnormis* (Gottsche) Pearson, Forh. Vidensk.-Selsk. Kristiania 1892 (8): 4, 1892 (Pearson 1892). Bas.: *Phragmicoma abnormis* Gottsche, Abh. Naturwiss. Vereins Bremen 7: 352, 1882 (Gottsche 1882).³⁵⁴
- * *Acrolejeunea comptonii* Pearson, J. Linn. Soc., Bot. 46 (305): 33, 1922 (Pearson 1922b).³⁵⁵
- * *Acrolejeunea inflexa* (Gottsche) Pearson, Forh. Vidensk.-Selsk. Kristiania 1892 (8): 4, 1892 (Pearson 1892). Bas.: *Phragmicoma inflexa* Gottsche, Abh. Naturwiss. Vereins Bremen 7: 351, 1882 (Gottsche 1882).³⁵⁶
- *** ***Archilejeunea* (Spruce) Steph.**, Hedwigia 27 (3/4): 113, 1888 (Stephani 1888d). Bas.: *Lejeunea* subg. *Archilejeunea* Spruce, Trans. & Proc. Bot. Soc. Edinburgh 15: 88, 1884 (Spruce 1884).³⁵⁷
- *** *Archilejeunea abbreviata* (Mitt.) Vanden Berghen, Rev. Bryol. Lichénol. 20 (1/2): 117, 1951 (Vanden Berghen 1951c). Bas.: *Lejeunea abbreviata* Mitt., J. Proc. Linn. Soc., Bot. 7 (27): 167, 1863 (Mitten 1863).
- ** *Archilejeunea africana* Steph., Sp. Hepat. (Stephani) 4: 705, 1911 (Stephani 1911e).
- ** *Archilejeunea alata* Steph., Bull. Soc. Roy. Bot. Belgique, Compt. Rend. 32 (2): 33, 1893 [1894] (Stephani 1893e).

³⁵⁴ *Acrolejeunea abnormis* was excluded from *Acrolejeunea* by Gradstein (1975), but the type specimen was not localized.

³⁵⁵ *Acrolejeunea comptonii* is a *Mastigolejeunea* species (Gradstein 1975). The type specimen has not been localized.

³⁵⁶ *Acrolejeunea inflexa* was excluded from *Acrolejeunea* by Gradstein (1975), but the type specimen was not localized.

³⁵⁷ *Archilejeunea* is polyphyletic and several nomenclatural and taxonomic will be proposed (Shi et al. 2015a).

- ** *Archilejeunea amakawana* Inoue, J. Jap. Bot. 41 (1): 16, 1966 (Inoue 1966d). *Nom. nov. pro Archilejeunea falcata* Amakawa, J. Jap. Bot. 39 (5): 137, 1964 (Amakawa 1964b), *nom. illeg.*
- *** *Archilejeunea auberiana* (Mont.) Steph., Hedwigia 29 (3): 134, 1890 (Stephani 1890d). Bas.: *Lejeunea auberiana* Mont., Hist. Phys. Cuba, Bot., Pl. Cell.: 483, 1842 (Montagne 1842a).
- *** *Archilejeunea autoica* Vanden Berghen, Rev. Bryol. Lichénol. 20 (1/2): 119, 1951 (Vanden Berghen 1951b).
- *** *Archilejeunea badia* (Spruce) Steph., Sp. Hepat. (Stephani) 4: 711, 1911 (Stephani 1911e). Bas.: *Lejeunea badia* Spruce, Trans. & Proc. Bot. Soc. Edinburgh 15: 92, 1884 (Spruce 1884).
- * *Archilejeunea bilabiata* (Mitt.) Steph., Sp. Hepat. (Stephani) 4: 723, 1911 (Stephani 1911e). Bas.: *Phragmicoma bilabiata* Mitt., Fl. vit.: 412, 1871 [1873] (Mitten 1871).³⁵⁸
- *** *Archilejeunea bischleriana* Gradst., Fl. Neotrop. Monogr. 62: 62, 1994 (Gradstein 1994).
- ** *Archilejeunea bongardii* Steph., Hedwigia 29 (1): 20, 1890 (Stephani 1890a).
- ** *Archilejeunea brachyantha* J.B.Jack et Steph., Bot. Centralbl. 60 (4): 104, 1894 (Jack and Stephani 1894).
- ** *Archilejeunea brevilobula* Steph., Sp. Hepat. (Stephani) 4: 706, 1911 (Stephani 1911e).
- *** *Archilejeunea crispistipula* (Spruce) Steph., Sp. Hepat. (Stephani) 4: 712, 1911 (Stephani 1911e). Bas.: *Lejeunea crispistipula* Spruce, Trans. & Proc. Bot. Soc. Edinburgh 15: 93, 1884 (Spruce 1884).
- * *Archilejeunea eberhardtii* Steph., Sp. Hepat. (Stephani) 4: 725, 1911 (Stephani 1911e).
- ** *Archilejeunea elobulata* Steph., Sp. Hepat. (Stephani) 4: 707, 1911 (Stephani 1911e).
- ** *Archilejeunea gradsteini* X.Q.Shi et R.L.Zhu, Nova Hedwigia 100 (3/4): 592, 2015 (Shi and Zhu 2015).
- ** *Archilejeunea incrassata* Steph., Rev. Bryol. 35 (2): 30, 1908 (Stephani 1908l).
- ** *Archilejeunea jonesii* Vanden Berghen, Rev. Bryol. Lichénol. 20 (1/2): 116, 1951 (Vanden Berghen 1951c).
- *** *Archilejeunea juliformis* (Nees) Gradst., Bryophyt. Biblioth. 4: 127, 1975 (Gradstein 1975). Bas.: *Jungermannia juliformis* Nees, Fl. Bras. (Martius) 1 (1): 351, 1833 (Nees 1833a).
- *** *Archilejeunea kiushiana* (Horik.) Verd., Ann. Bryol., Suppl. 4: 46, 1934 (Verdoorn 1934a). Bas.: *Lopholejeunea kiushiana* Horik., J. Sci. Hiroshima Univ., Ser. B, Div. 2, Bot. 1: 129, 1932 (Horikawa 1932c).
- *** *Archilejeunea ludoviciana* (De Not.) P.Geissler et Gradst., J. Hattori Bot. Lab. 75: 202, 1994 (Geissler and Gradstein 1994). Bas.: *Phragmicoma ludoviciana* De Not., Nov. Stirp. Pug. 10: 11, 1857 (Lehmann 1857).
- *** *Archilejeunea ludoviciana* subsp. *porelloides* (Spruce) Gradst., Fl. Neotrop. Monogr. 62: 58, 1994 (Gradstein 1994). Bas.: *Lejeunea porelloides* Spruce, Trans. & Proc. Bot. Soc. Edinburgh 15: 90, 1884 (Spruce 1884).

358 *Archilejeunea bilabiata* is a doubtful taxon, the type specimen could not be found (Geissler and Gradstein 1994).

- ** *Archilejeunea nebeliana* Gradst. et Schäf.-Verw., Cryptog. Bryol. 33 (2): 108, 2012 (Gradstein and Schäfer-Verwimp 2012).
- *** *Archilejeunea olivacea* (Hook.f. et Taylor) Steph., Hedwigia 29 (3): 134, 1890 (Stephani 1890d). Bas.: *Jungermannia olivacea* Hook.f. et Taylor, London J. Bot. 3: 568, 1844 (Hooker and Taylor 1844d).
- *** *Archilejeunea parviflora* (Nees) Steph., Hedwigia 29 (3): 134, 1890 (Stephani 1890d). Bas.: *Jungermannia parviflora* Nees, Fl. Bras. (Martius) 1 (1): 353, 1833 (Nees 1833a).
- ** *Archilejeunea planifolia* (Horik.) Mizut., J. Hattori Bot. Lab. 73: 175, 1993 (Mizutani 1993). Bas.: *Leucolejeunea planifolia* Horik., J. Sci. Hiroshima Univ., Ser. B, Div. 2, Bot. 1: 199, 1933 (Horikawa 1933).³⁵⁹
- *** *Archilejeunea planiuscula* (Mitt.) Steph., Sp. Hepat. (Stephani) 4: 731, 1911 (Stephani 1911e). Bas.: *Lejeunea planiuscula* Mitt., J. Proc. Linn. Soc., Bot. 5 (18): 111, 1860 [1861] (Mitten 1860c).

Excluded from the genus

- * *Archilejeunea negrensis* Steph., Sp. Hepat. (Stephani) 4: 716, 1911 (Stephani 1911e).³⁶⁰
- * *Archilejeunea ovata* Herzog, Rev. Bryol. Lichénol. 20 (1/2): 130, 1951 [1952] (Herzog 1951a).³⁶¹
- *** ***Bryopteris* (Nees) Lindenb.**, Syn. Hepat. 2: 284, 1845 (Gottsche et al. 1845a). Bas.: *Frullania* subg. *Bryopteris* Nees, Naturgesch. Eur. Leberm. 3: 211, 1838 (Nees 1838b).
- *** *Bryopteris diffusa* (Sw.) Nees, Syn. Hepat. 2: 286, 1845 (Gottsche et al. 1845a). Bas.: *Jungermannia diffusa* Sw., Prodr. (Swartz): 144, 1788 (Swartz 1788).
- *** *Bryopteris filicina* (Sw.) Nees, Syn. Hepat. 2: 284, 1845 (Gottsche et al. 1845a). Bas.: *Jungermannia filicina* Sw., Prodr. (Swartz): 145, 1788 (Swartz 1788).
- * *Bryopteris fissiloba* Steph., Sp. Hepat. (Stephani) 6: 568, 1924 (Stephani 1924).³⁶²
- *** *Bryopteris gaudichaudii* Gottsche, Ann. Sci. Nat. Bot. (sér. 4) 8: 340, 1857 (Gottsche 1857).
- *** ***Caudalejeunea* Schiffn.**, Hepat. (Engl.-Prantl): 129, 1893 (Schiffner 1893b).
- ** **subg. *Acaudalejeunea* R.M.Schust.**, Hepat. Anthocerotae N. Amer. 4: 779, 1980 (Schuster 1980c).
- *** *Caudalejeunea grolleana* Gradst., Acta Bot. Neerl. 23 (3): 334, 1974 (Gradstein 1974b).

359 *Archilejeunea planifolia* is conspecific with *Archilejeunea kiushiana* in Hattori (1952c) and Gradstein and Geissler (1997), but it is a separate species in Mizutani (1993).

360 *Archilejeunea negrensis* is probably not an *Archilejeunea* species, but the type specimen is too poor to permit identification (Gradstein and Buskes 1985).

361 *Archilejeunea ovata* is conspecific with *Lopholejeunea nigricans* or *Lopholejeunea subfusca* (Gradstein 1994).

362 *Bryopteris fissiloba* is probably conspecific with *Bryopteris diffusa* (Gradstein and Costa 2003). It was not accepted by Hartmann et al. (2006).

** **subg. *Caudalejeunea***

- ** *Caudalejeunea africana* (Steph.) Schiffn., Hepat. (Engl.-Prantl): 129, 1893 (Schiffner 1893b). Bas.: *Thysananthus africanus* Steph., Bot. Jahrb. Syst. 8 (2): 93, 1886 (Stephani 1886d).
- *** *Caudalejeunea hanningtonii* (Mitt.) Schiffn., Hepat. (Engl.-Prantl): 129, 1893 (Schiffner 1893b). Bas.: *Lejeunea hanningtonii* Mitt., J. Linn. Soc., Bot. 22 (146): 324, 1886 (Mitten 1886b).
- ** *Caudalejeunea katangensis* Vanden Berghen, Explor. Hydrobiol. Lac Bangweolo Luapula: 94, 1972 (Vanden Berghen 1972b).
- *** *Caudalejeunea lehmanniana* (Gottsche) A.Evans, Bull. Torrey Bot. Club 34 (11): 554, 1907 [1908] (Evans 1907a). Bas.: *Lejeunea lehmanniana* Gottsche, Syn. Hepat. 3: 325, 1845 (Gottsche et al. 1845b).
- ** *Caudalejeunea lewallei* Vanden Berghen, Bull. Jard. Bot. Natl. Belg. 42 (4): 434, 1972 (Vanden Berghen 1972a).

** **subg. *Vermilejeunea* R.M.Schust.**, Hepat. Anthocerotae N. Amer. 4: 778, 1980 (Schuster 1980c).

- *** *Caudalejeunea cristiloba* (Steph.) Gradst., Acta Bot. Neerl. 23 (3): 340, 1974 (Gradstein 1974b). Bas.: *Acrolejeunea cristiloba* Steph., Hedwigia 34 (2): 56, 1895 (Stephani 1895c).
- *** *Caudalejeunea cristiloba* subsp. *samoana* (Steph.) Gradst., Acta Bot. Neerl. 23 (3): 343, 1974 (Gradstein 1974b). Bas.: *Caudalejeunea samoana* Steph., Akad. Wiss. Wien, Math.-Naturwiss. Kl., Denkschr. 81: 296, 1907 (Stephani 1907a).
- ** *Caudalejeunea dusenii* Steph., Sp. Hepat. (Stephani) 5: 11, 1912 (Stephani 1912c).
- *** *Caudalejeunea reniloba* (Gottsche) Steph., Sp. Hepat. (Stephani) 5: 16, 1912 (Stephani 1912c). Bas.: *Phragmicoma reniloba* Gottsche, Syn. Hepat. 2: 301, 1845 (Gottsche et al. 1845a).
- ** *Caudalejeunea yangambiensis* (Vanden Berghen) E.W.Jones, Trans. Brit. Bryol. Soc. 3 (2): 192, 1957 (Jones 1957b). Bas.: *Ptychocoleus yangambiensis* Vanden Berghen, Bull. Soc. Roy. Bot. Belgique 84: 61, 1951 (Vanden Berghen 1951a).

Incertae sedis

- ** *Caudalejeunea acutifolia* Gerola, Lav. Bot. Ist. Bot. Univ. Padova 12: 478, 1947 (Gerola 1947).
- * *Caudalejeunea mauritiana* Horik., Acta Phytotax. Geobot. 13: 214, 1943 (Horikawa 1943). *Nom. nov. pro Dicranolejeunea africana* Steph., Sp. Hepat. (Stephani) 5: 158, 1912 (Stephani 1912c).
- ** *Caudalejeunea streimannii* Gyarmati, Trop. Bryol. 22: 129, 2002 (Sass-Gyarmati 2002).
- ** *Caudalejeunea tridentata* R.L.Zhu, Y.M.Wei et Qiong He, Bryologist 114 (3): 469, 2011 (Zhu et al. 2011).

- ** *Cephalantholejeunea* R.M.Schust., Hepat. Anthocerotae N. Amer. 4: 798, 1980 (Schuster 1980c).
- *** *Cephalantholejeunea temnanthoides* (R.M.Schust.) R.M.Schust., Hepat. Anthocerotae N. Amer. 4: 807, 1980 (Schuster 1980c). Bas.: *Potamolejeunea temnanthoides* R.M.Schust., Beih. Nova Hedwigia 9: 123, 1963 (Schuster 1963a).
- ** *Cephalolejeunea* Mizut., J. Hattori Bot. Lab. 46: 359, 1979 (Mizutani 1979b).
- *** *Cephalolejeunea parvilobula* Mizut., J. Hattori Bot. Lab. 46: 359, 1979 (Mizutani 1979b).
- *** *Frullanoides Raddi*, Critt. Brasil.: 13, 1822 (Raddi 1822).
- *** *Frullanoides bahamensis* (A.Evans) van Slageren, Meded. Bot. Mus. Herb. Rijks Univ. Utrecht 544: 81, 1985 (van Slageren 1985). Bas.: *Brachiolejeunea bahamensis* A.Evans, Bull. Torrey Bot. Club 35 (8): 383, 1908 (Evans 1908b).
- *** *Frullanoides corticalis* (Lehm. et Lindenb.) van Slageren, Meded. Bot. Mus. Herb. Rijks Univ. Utrecht 544: 84, 1985 (van Slageren 1985). Bas.: *Jungermannia corticalis* Lehm. et Lindenb., Nov. Stirp. Pug. 4: 50, 1832 (Lehmann 1832).
- *** *Frullanoides densifolia* Raddi, Critt. Brasil.: 14, 1822 (Raddi 1822).
- *** *Frullanoides densifolia* subsp. *grandidentata* (L.Clark) van Slageren, Meded. Bot. Mus. Herb. Rijks Univ. Utrecht 544: 95, 1985 (van Slageren 1985). Bas.: *Brachiolejeunea grandidentata* L.Clark, Proc. Calif. Acad. Sci. (ser. 4) 27 (18): 595, 1953 (Clark 1953).
- *** *Frullanoides laciniatiflora* (Loitl.) van Slageren, Meded. Bot. Mus. Herb. Rijks Univ. Utrecht 544: 100, 1985 (van Slageren 1985). Bas.: *Lejeunea laciniatiflora* Loitl., Diagn. pl. nov.: 19, 1894 (Loitlesberger 1894).
- *** *Frullanoides liebmaniana* (Lindenb. et Gottsche) van Slageren, Meded. Bot. Mus. Herb. Rijks Univ. Utrecht 544: 102, 1985 (van Slageren 1985). Bas.: *Phragmicoma liebmaniana* Lindenb. et Gottsche, Syn. Hepat. 5: 744, 1847 (Gottsche et al. 1847).
- *** *Frullanoides mexicana* van Slageren, Meded. Bot. Mus. Herb. Rijks Univ. Utrecht 544: 106, 1985 (van Slageren 1985).
- *** *Frullanoides tristis* (Steph.) van Slageren, Meded. Bot. Mus. Herb. Rijks Univ. Utrecht 544: 110, 1985 (van Slageren 1985). Bas.: *Brachiolejeunea tristis* Steph., Sp. Hepat. (Stephani) 5: 112, 1912 (Stephani 1912c).
- *** *Fulfordianthus Gradst.*, Bryologist 95 (1): 44, 1992 (Gradstein 1992a).
- *** *Fulfordianthus evansii* (Fulford) Gradst., Bryologist 95 (1): 46, 1992 (Gradstein 1992a). Bas.: *Thysananthus evansii* Fulford, Bull. Torrey Bot. Club 68 (1): 34, 1941 (Fulford 1941).
- *** *Fulfordianthus pterobryoides* (Spruce) Gradst., Bryologist 95 (1): 44, 1992 (Gradstein 1992a). Bas.: *Lejeunea pterobryoides* Spruce, Trans. & Proc. Bot. Soc. Edinburgh 15: 109, 1884 (Spruce 1884).

- *** ***Lopholejeunea* (Spruce) Steph.**, Bot. Gaz. 15 (11): 285, 1890 (Stephani 1890c) nom. rejic. Bas.: *Lejeunea* subg. *Lopholejeunea* Spruce, Trans. & Proc. Bot. Soc. Edinburgh 15: 119, 1884 (Spruce 1884).
- ** **subg. *Lopholejeunea***
- ** *Lopholejeunea borbonica* Steph., Hedwigia 35 (3): 109, 1896 (Stephani 1896b).
- ** *Lopholejeunea jonesii* Vanden Berghen, Bull. Jard. Bot. État Bruxelles 20 (2): 178, 1950 (Vanden Berghen 1950).
- ** *Lopholejeunea laciniata* E.W.Jones, Trans. Brit. Bryol. Soc. 3 (2): 194, 1957 (Jones 1957b).
- ** *Lopholejeunea minima* Vanden Berghen, Bull. Jard. Bot. Natl. Belg. 54 (3/4): 437, 1984 (Vanden Berghen 1984a).
- * *Lopholejeunea obtusilacera* Herzog, Bull. Jard. Bot. État Bruxelles 20 (2): 172, 1950 (Vanden Berghen 1950).
- * *Lopholejeunea paramultilacera* Vanden Berghen, Bull. Jard. Bot. Natl. Belg. 54 (3/4): 435, 1984 (Vanden Berghen 1984a).
- * *Lopholejeunea quinquecarinata* Vanden Berghen, Bull. Jard. Bot. Natl. Belg. 54 (3/4): 408, 1984 (Vanden Berghen 1984a).
- ** *Lopholejeunea renistipula* (Mitt.) Steph., Sp. Hepat. (Stephani) 5: 94, 1912 (Stephani 1912c). Bas.: *Phragmicoma renistipula* Mitt., Fl. vit.: 413, 1871 [1873] (Mitten 1871).
- ** *Lopholejeunea revoluta* E.W.Jones, Trans. Brit. Bryol. Soc. 3 (2): 207, 1957 (Jones 1957b).
- ** **sect. *Eulophae* Verd.**, Ann. Bryol., Suppl. 4: 87, 1934 (Verdoorn 1934a).
- *** *Lopholejeunea applanata* (Reinw., Blume et Nees) Schiffn., Hepat. (Engl.-Prantl): 129, 1893 (Schiffner 1893b). Bas.: *Jungermannia applanata* Reinw., Blume et Nees, Nova Acta Phys.-Med. Acad. Caes. Leop.-Carol. Nat. Cur. 12 (1): 210, 1824 [1825] (Reinwardt et al. 1824a).
- *** *Lopholejeunea borneensis* (Steph.) Verd., Ann. Bryol., Suppl. 4: 83, 1934 (Verdoorn 1934a). Bas.: *Mastigolejeunea borneensis* Steph., Sp. Hepat. (Stephani) 4: 777, 1912 (Stephani 1912b).
- *** *Lopholejeunea erugata* B.M.Thiers, Brittonia 36 (2): 174, 1984 (Thiers 1984). *Nom. nov. pro Ptychocoleus inermis* Steph., Sp. Hepat. (Stephani) 5: 27, 1912 (Stephani 1912c).
- *** *Lopholejeunea eulopha* (Taylor) Schiffn., Hepat. (Engl.-Prantl): 129, 1893 (Schiffner 1893b). Bas.: *Lejeunea eulopha* Taylor, London J. Bot. 5: 391, 1846 (Taylor 1846b).
- *** *Lopholejeunea evansiana* Verd., Nova Guinea 18: 4, 1934 (Verdoorn 1934d).
- *** *Lopholejeunea grollei* R.L.Zhu et Gradst., Monogr. Syst. Bot. Missouri Bot. Gard. 74: 36, 2005 (Zhu and Gradstein 2005).
- *** *Lopholejeunea herzogiana* Verd., Recueil Trav. Bot. Neerl. 30: 217, 1933 (Verdoorn 1933b).

- *** *Lopholejeunea hispidissima* Steph., Sp. Hepat. (Stephani) 5: 80, 1912 (Stephani 1912c).
- *** *Lopholejeunea loheri* Steph., Sp. Hepat. (Stephani) 5: 77, 1912 (Stephani 1912c).
- *** *Lopholejeunea minuta* R.L.Zhu et Gradst., Nova Hedwigia 78 (3/4): 436, 2004 (Zhu and Gradstein 2004).
- *** *Lopholejeunea nigricans* (Lindenb.) Schiffn., Consp. Hepat. Arch. Ind.: 293, 1898 (Schiffner 1898b). Bas.: *Lejeunea nigricans* Lindenb., Syn. Hepat. 3: 316, 1845 (Gottsche et al. 1845b).
- *** *Lopholejeunea plicatiscypha* (Hook.f. et Taylor) Steph., Sp. Hepat. (Stephani) 5: 96, 1912 (Stephani 1912c). Bas.: *Phragmicoma plicatiscypha* Hook.f. et Taylor, London J. Bot. 5: 386, 1846 (Taylor 1846b).
- * *Lopholejeunea proxima* Steph., Sp. Hepat. (Stephani) 5: 89, 1912 (Stephani 1912c).³⁶³
- *** *Lopholejeunea streimannii* B.M.Thiers et Gradst., Mem. New York Bot. Gard. 52: 37, 1989 (Thiers and Gradstein 1989).
- ** *Lopholejeunea vojtkoana* Gyarmati, Nova Hedwigia 87 (3/4): 480, 2008 (Sass-Gyarmati 2008).
- ** sect. *Lopholejeunea***
- *** *Lopholejeunea ceylanica* Steph., Sp. Hepat. (Stephani) 5: 86, 1912 (Stephani 1912c).
- *** *Lopholejeunea horticola* Schiffn., Ann. Bryol. 6: 133, 1933 (Herzog et al. 1933).
- *** *Lopholejeunea latilobula* Verd., Nova Guinea 18: 4, 1934 (Verdoorn 1934d).
- *** *Lopholejeunea magna* Mizut., J. Hattori Bot. Lab. 32: 131, 1969 (Mizutani 1969).
- *** *Lopholejeunea recurvata* Mizut., J. Hattori Bot. Lab. 46: 369, 1979 (Mizutani 1979b).
- *** *Lopholejeunea soae* R.L.Zhu et Gradst., Monogr. Syst. Bot. Missouri Bot. Gard. 74: 69, 2005 (Zhu and Gradstein 2005).
- *** *Lopholejeunea subfusca* (Nees) Schiffn., Bot. Jahrb. Syst. 23 (5): 593, 1897 (Schiffner 1897). Bas.: *Jungermannia subfusca* Nees, Enum. Pl. Crypt. Javae: 36, 1830 (Nees 1830).
- ** *Lopholejeunea subfusca* var. *elongata* Vanden Berghen, Bull. Jard. Bot. Natl. Belg. 54 (3/4): 445, 1984 (Vanden Berghen 1984a).
- *** *Lopholejeunea wiltensii* Steph., Hedwigia 35 (3): 112, 1896 (Stephani 1896b).
- * *Lopholejeunea yapensis* Steph., Sp. Hepat. (Stephani) 5: 81, 1912 (Stephani 1912c).³⁶⁴
- *** *Lopholejeunea zollingeri* (Steph.) Schiffn., Consp. Hepat. Arch. Ind.: 296, 1898 (Schiffner 1898b). Bas.: *Lejeunea zollingeri* Steph., Hedwigia 29 (1): 14, 1890 (Stephani 1890a).
- ** subg. *Pholiantbus* B.M.Thiers et Gradst.**, Mem. New York Bot. Gard. 52: 25, 1989 (Thiers and Gradstein 1989).
- *** *Lopholejeunea colensoi* Steph., Sp. Hepat. (Stephani) 5: 97, 1912 (Stephani 1912c).
- *** *Lopholejeunea pocsii* Gyarmati, Cryptog. Bryol. 26 (4): 404, 2005 (Sass-Gyarmati 2005).

363 *Lopholejeunea proxima* is possibly conspecific with *Lopholejeunea nigricans* (Zhu and Gradstein 2005).

364 *Lopholejeunea yapensis* is possibly conspecific with *Lopholejeunea subfusca* (Mizutani 1985).

- ** **subg. *Pteryganthus* B.M.Thiers**, *Brittonia* 35 (1): 85, 1983 (Thiers 1983).
- ** *Lopholejeunea grandicrista* Steph., *Bull. Soc. Roy. Bot. Belgique, Compt. Rend.* 32 (2): 34, 1893 [1894] (Stephani 1893e).
- *** *Lopholejeunea leioptera* Gyarmati, *Candollea* 56 (1): 80, 2001 (Sass-Gyarmati 2001).
- ** *Lopholejeunea onraedtii* Vanden Berghen, *Bull. Jard. Bot. Natl. Belg.* 54 (3/4): 452, 1984 (Vanden Berghen 1984a).
- ** *Lopholejeunea sphaerophora* (Lehm. et Lindenb.) Steph., *Sp. Hepat. (Stephani)* 5: 68, 1912 (Stephani 1912c). Bas.: *Jungermannia sphaerophora* Lehm. et Lindenb., *Nov. Stirp. Pug.* 5: 9, 1833 (Lehmann 1833).
- * *Lopholejeunea tixieriana* Vanden Berghen, *Bull. Jard. Bot. Natl. Belg.* 54 (3/4): 454, 1984 (Vanden Berghen 1984a).
- ** *Lopholejeunea utriculata* Steph., *Sp. Hepat. (Stephani)* 5: 69, 1912 (Stephani 1912c).

Incertae sedis

- ** *Lopholejeunea lepidoscypha* Kiaer et Pearson, *Forth. Vidensk.-Selsk. Kristiania* 1892 (8): 5, 1892 (Pearson 1892).
- * *Lopholejeunea multilacera* Steph., *Bot. Gaz.* 15 (11): 285, 1890 (Stephani 1890c).
- ** *Lopholejeunea udarii* M.Dey et D.K.Singh, *Nelumbo* 53: 197, 2011 (Dey and Singh 2011).

Excluded from the genus

- * *Lopholejeunea aberrantia* Horik., *J. Sci. Hiroshima Univ., Ser. B, Div. 2, Bot.* 2: 256, 1934 (Horikawa 1934).³⁶⁵
- * *Lopholejeunea vietnamica* Tixier, *Ann. Hist.-Nat. Mus. Natl. Hung.* 66: 99, 1974 (Tixier 1974).³⁶⁶

*** ***Marchesinia* Gray**, *Nat. Arr. Brit. Pl.* 1: 689, 1821 (Gray 1821) nom. conserv.

*** **subg. *Marchesinia***

*** *Marchesinia mackaii* (Hook.) Gray, *Nat. Arr. Brit. Pl.* 1: 689, 1821 (Gray 1821). Bas.: *Jungermannia mackaii* Hook., *Brit. Jungermann.*: tab. 53, 1813 (Hooker 1813).

*** **subg. *Marchesiniopsis* R.M.Schust.**, *J. Hattori Bot. Lab.* 72: 358, 1992 (Schuster 1992a).

*** *Marchesinia bongardiana* (Lehm. et Lindenb.) Trevis., *Mem. Reale Ist. Lombardo Sci. (Ser. 3), C. Sci. Mat.* 4 (13): 405, 1877 (Trevisan 1877). Bas.: *Lejeunea bongardiana* Lehm. et Lindenb., *Nov. Stirp. Pug.* 7: 18, 1838 (Lehmann 1838).

³⁶⁵ *Lopholejeunea aberrantia* is probably an *Archilejeunea* species, but the type specimen in HIRO is destroyed (Zhu and Gradstein 2005).

³⁶⁶ *Lopholejeunea vietnamica* is probably an *Archilejeunea* species (Zhu and Gradstein 2005). The type specimen was not found in PC.

- *** *Marchesinia brachiata* (Sw.) Schiffn., Hepat. (Engl.-Prantl): 128, 1893 (Schiffner 1893b). Bas.: *Jungermannia brachiata* Sw., Prodr. (Swartz): 144, 1788 (Swartz 1788).
- *** *Marchesinia deslooveri* Vanden Berghen, Rev. Bryol. Lichénol. 42 (4): 926, 1976 (Vanden Berghen 1976a).
- *** *Marchesinia excavata* (Mitt.) Schiffn., Hepat. (Engl.-Prantl): 128, 1893 (Schiffner 1893b). Bas.: *Lejeunea excavata* Mitt., Trans. Linn. Soc. London 23 (1): 58, 1860 (Mitten 1860a).
- *** *Marchesinia languida* (Nees et Mont.) Steph., Sp. Hepat. (Stephani) 5: 149, 1912 (Stephani 1912c). Bas.: *Lejeunea languida* Nees et Mont., Ann. Sci. Nat. Bot. (sér. 2) 5: 59, 1836 (Nees and Montagne 1836).
- *** *Marchesinia nobilis* (Gottsche) X.Q.Shi, R.L.Zhu et Gradst., Phytotaxa 195 (3): 249, 2015 (Shi et al. 2015b). Bas.: *Lejeunea nobilis* Gottsche, Abh. Naturwiss. Vereins Bremen 7: 353, 1882 (Gottsche 1882).
- *** *Marchesinia robusta* (Mitt.) Schiffn., Hepat. (Engl.-Prantl): 128, 1893 (Schiffner 1893b). Bas.: *Lejeunea robusta* Mitt., Hooker's J. Bot. Kew Gard. Misc. 3: 359, 1851 (Mitten 1851).
- ** ***Mastigolejeunea* (Spruce) Steph.**, Hedwigia 30 (5): 206, 1891 (Stephani 1891a). Bas.: *Lejeunea* subg. *Mastigolejeunea* Spruce, Trans. & Proc. Bot. Soc. Edinburgh 15: 100, 1884 (Spruce 1884).
- *** *Mastigolejeunea auriculata* (Wilson et Hook.) Steph., Bot. Gaz. 17 (6): 171, 1892 (Stephani 1892f). Bas.: *Jungermannia auriculata* Wilson et Hook., Musci Amer., S. States: no. 170, 1841 (Wilson 1841; non vidi).
- ** *Mastigolejeunea auriculata* var. *rhodesica* (Vanden Berghen) Sukkharak et Gradst., Nova Hedwigia 99 (3/4): 297, 2014 (Sukkharak and Gradstein 2014). Bas.: *Brachiolejeunea rhodesica* Vanden Berghen, Bull. Jard. Bot. État Bruxelles 21 (1/2): 94, 1951 (Vanden Berghen 1951d).
- *** *Mastigolejeunea calcarata* (Steph.) Verd., Blumea 1 (1): 230, 1934 (Verdoorn 1934b). Bas.: *Archilejeunea calcarata* Steph., Sp. Hepat. (Stephani) 4: 724, 1911 (Stephani 1911e).
- *** *Mastigolejeunea florea* (Mitt.) Paris, Rev. Bryol. 33 (3): 42, 1906 (Paris 1906b). Bas.: *Phragmicoma florea* Mitt., J. Linn. Soc., Bot. 22 (146): 323, 1886 (Mitten 1886b).
- *** *Mastigolejeunea frauenfeldii* (Reichardt) Verd., Blumea 1 (1): 230, 1934 (Verdoorn 1934b). Bas.: *Thysananthus frauenfeldii* Reichardt, Verh. K.K. Zool.-Bot. Ges. Wien 16: 958, 1866 (Reichardt 1866).
- ** *Mastigolejeunea gradsteinii* Sukkharak, J. Bryol. 36 (1): 56, 2014 (Sukkharak 2014).

- *** *Mastigolejeunea humilis* (Gottsche) Schiffn., *Hepat.* (Engl.-Prantl): 129, 1893 (Schiffner 1893b). Bas.: *Phragmicoma humilis* Gottsche, *Syn. Hepat.* 2: 299, 1845 (Gottsche et al. 1845a).³⁶⁷
- *** *Mastigolejeunea indica* Steph., *Sp. Hepat.* (Stephani) 4: 776, 1912 (Stephani 1912b).
- *** *Mastigolejeunea innovans* (Spruce) Steph., *Sp. Hepat.* (Stephani) 4: 765, 1912 (Stephani 1912b). Bas.: *Lejeunea innovans* Spruce, *Trans. & Proc. Bot. Soc. Edinburgh* 15: 103, 1884 (Spruce 1884).
- *** *Mastigolejeunea ligulata* (Lehm. et Lindenb.) Schiffn., *Hepat.* (Engl.-Prantl): 129, 1893 (Schiffner 1893b). Bas.: *Jungermannia ligulata* Lehm. et Lindenb., *Nov. Stirp. Pug.* 6: 39, 1834 (Lehmann 1834).
- *** *Mastigolejeunea nigra* Steph., *Hedwigia* 30 (5): 206, 1891 (Stephani 1891a).
- *** *Mastigolejeunea plicatiflora* (Spruce) Steph., *Sp. Hepat.* (Stephani) 4: 766, 1912 (Stephani 1912b). Bas.: *Lejeunea plicatiflora* Spruce, *Trans. & Proc. Bot. Soc. Edinburgh* 15: 104, 1884 (Spruce 1884).
- *** *Mastigolejeunea recondita* (Steph.) Mizut., *J. Hattori Bot. Lab.* 32: 134, 1969 (Mizutani 1969). Bas.: *Ptycholejeunea recondita* Steph., *Hedwigia* 35 (3): 122, 1896 (Stephani 1896b).
- *** *Mastigolejeunea repleta* (Taylor) A.Evans, *Mem. Torrey Bot. Club* 8 (2): 131, 1902 (Evans 1902a). Bas.: *Lejeunea repleta* Taylor, *London J. Bot.* 5: 392, 1846 (Taylor 1846b).
- *** *Mastigolejeunea truncata* Mizut., *J. Hattori Bot. Lab.* 61: 292, 1986 [1987] (Mizutani 1986c).
- ** *Mastigolejeunea turgida* Steph., *Hedwigia* 31 (4): 170, 1892 (Stephani 1892g).
- *** *Mastigolejeunea virens* (Ångstr.) Steph., *Sp. Hepat.* (Stephani) 4: 776, 1912 (Stephani 1912b), *nom. conserv.* Bas.: *Thysananthus virens* Ångstr., *Öfvers. Kongl. Vetensk.-Akad. Förh.* 30 (5): 131, 1873 (Ångström 1873).
- ** ***Phaeolejeunea Mizut.***, *J. Hattori Bot. Lab.* 31: 130, 1968 (Mizutani 1968).
- *** *Phaeolejeunea amicornum* (Hürl.) Pócs, *Fieldiana, Bot.* (n.ser.) 47: 140, 2008 (Pócs 2008b). Bas.: *Phaeolejeunea etesseana* subsp. *amicorum* Hürl., *Bauhinia* 9 (4): 263, 1991 (Hürlimann 1991).
- ** *Phaeolejeunea etesseana* (Steph.) Mizut., *J. Hattori Bot. Lab.* 31: 133, 1968 (Mizutani 1968). Bas.: *Brachiolejeunea etesseana* Steph., *Sp. Hepat.* (Stephani) 5: 133, 1912 (Stephani 1912c).
- ** *Phaeolejeunea inermis* (Steph.) Mizut., *J. Hattori Bot. Lab.* 31: 134, 1968 (Mizutani 1968). Bas.: *Lopholejeunea inermis* Steph., *Sp. Hepat.* (Stephani) 5: 92, 1912 (Stephani 1912c).
- *** *Phaeolejeunea latistipula* (Schiffn. ex P.Syd.) Mizut., *J. Hattori Bot. Lab.* 31: 131, 1968 (Mizutani 1968). Bas.: *Hygrolejeunea latistipula* Schiffn. ex P.Syd., *Just's Bot. Jahresber.* 19: 246, 1894 (Sydow 1894).

³⁶⁷ *Mastigolejeunea humilis* has been treated as conspecific with *Mastigolejeunea auriculata* by many recent authors, but it merits recognition based on molecular and morphological evidence (Sukkarak et al. 2011).

- *** *Ptychanthus* Nees, Naturgesch. Eur. Leberm. 3: 211, 1838 (Nees 1838b).
- ** *Ptychanthus africanus* Steph., Wiss. Ergebn. Deut. Zentr.-Afr. Exped. (1907-08), Bot. 2: 131, 1911 (Stephani 1911a).
- * *Ptychanthus stephensonianus* (Mitt.) Steph., Sp. Hepat. (Stephani) 4: 754, 1912 (Stephani 1912b). Bas.: *Lejeunea stephensoniana* Mitt., Bot. antarct. voy. II (Fl. Nov.-Zel. 2): 155, 1854 (Mitten 1854).³⁶⁸
- *** *Ptychanthus striatus* (Lehm. et Lindenb.) Nees, Naturgesch. Eur. Leberm. 3: 212, 1838 (Nees 1838b). Bas.: *Jungermannia striata* Lehm. et Lindenb., Nov. Stirp. Pug. 4: 16, 1832 (Lehmann 1832).
- ** *Ptychanthus striatus* var. *intermedius* (Gottsche) Verd., Ann. Bryol., Suppl. 4: 122, 1934 (Verdoorn 1934a). Bas.: *Ptychanthus intermedius* Gottsche, Natuurk. Tijdschr. Ned.-Indië 4: 576, 1853 (Gottsche 1853).
- *** *Schiffneriolejeunea* Verd., Ann. Bryol. 6: 89, 1933 (Verdoorn 1933a).
- ** **sect. *Pappeanae*** R.M.Schust. ex Gradst. et Vanden Berghen, Beih. Nova Hedwigia 80: 174, 1985 (Gradstein and Vanden Berghen 1985). Based on: *Phragmilejeunea* R.M.Schust., J. Hattori Bot. Lab. 11: 27, 1954 (Schuster and Hattori 1954).
- *** *Schiffneriolejeunea fragilis* Gradst. et E.W.Jones, J. Bryol. 12 (1): 45, 1982 (Jones 1982).
- *** *Schiffneriolejeunea madagascariensis* (Steph.) Gradst., J. Hattori Bot. Lab. 38: 333, 1974 (Gradstein 1974a). Bas.: *Ptychocoleus madagascariensis* Steph., Sp. Hepat. (Stephani) 5: 27, 1912 (Stephani 1912c).
- *** *Schiffneriolejeunea pappeana* var. *bidentata* Gradst. et Vanden Berghen, Beih. Nova Hedwigia 80: 182, 1985 (Gradstein and Vanden Berghen 1985).
- *** *Schiffneriolejeunea pappeana* var. *integra* Gradst. et Vanden Berghen, Beih. Nova Hedwigia 80: 182, 1985 (Gradstein and Vanden Berghen 1985).
- *** *Schiffneriolejeunea parviloba* (Steph.) Gradst., J. Hattori Bot. Lab. 38: 335, 1974 (Gradstein 1974a). Bas.: *Acrolejeunea parviloba* Steph., Bot. Gaz. 15 (11): 286, 1890 (Stephani 1890c).
- *** *Schiffneriolejeunea pappeana* (Nees) Gradst., J. Hattori Bot. Lab. 38: 335, 1974 (Gradstein 1974a). Bas.: *Phragmicoma pappeana* Nees, Syn. Hepat. 2: 296, 1845 (Gottsche et al. 1845a).
- ** **sect. *Schiffneriolejeunea***, Occas. Pap. Farlow Herb. Cryptog. Bot. 16: 72, 1981 (Gradstein and Terken 1981).
- *** *Schiffneriolejeunea altimontana* Vanden Berghen, Rev. Bryol. Lichénol. 42 (4): 923, 1976 (Vanden Berghen 1976a).
- *** *Schiffneriolejeunea amazonica* Gradst., Beih. Nova Hedwigia 80: 25, 1985 (Gradstein 1985a).

³⁶⁸ *Ptychanthus stephensonianus* was tentatively treated as a separate species by Thiers and Gradstein (1989). Further work on the infraspecific variation of *Ptychanthus striatus* is needed to determine the correct status.

- *** *Schiffneriolejeunea cumingiana* (Mont.) Gradst., J. Hattori Bot. Lab. 38: 333, 1974 (Gradstein 1974a). Bas.: *Phragmicoma cumingiana* Mont., London J. Bot. 4: 7, 1845 (Montagne 1845a).
- *** *Schiffneriolejeunea ferruginea* (Steph.) Gradst., J. Hattori Bot. Lab. 38: 333, 1974 (Gradstein 1974a). Bas.: *Acrolejeunea ferruginea* Steph., Hedwigia 34 (2): 57, 1895 (Stephani 1895c).
- *** *Schiffneriolejeunea occulta* (Steph.) Gradst., J. Hattori Bot. Lab. 38: 333, 1974 (Gradstein 1974a). Bas.: *Ptychocoleus occultus* Steph., Sp. Hepat. (Stephani) 5: 25, 1912 (Stephani 1912c).
- *** *Schiffneriolejeunea omphalanthoides* Verd., Ann. Bryol. 6: 91, 1933 (Verdoorn 1933c).
- *** *Schiffneriolejeunea tumida* (Nees) Gradst., J. Hattori Bot. Lab. 38: 335, 1974 (Gradstein 1974a). Bas.: *Ptychanthus tumidus* Nees, Naturgesch. Eur. Leberm. 3: 213, 1838 (Nees 1838b).
- *** *Schiffneriolejeunea tumida* var. *baskarliana* (Gottsche) Gradst. et Terken, Occas. Pap. Farlow Herb. Cryptog. Bot. 16: 77, 1981 (Gradstein and Terken 1981). Bas.: *Phragmicoma baskarliana* Gottsche, Syn. Hepat. 2: 299, 1845 (Gottsche et al. 1845a).
- *** *Schiffneriolejeunea nymannii* (Steph.) Gradst. et Terken, Occas. Pap. Farlow Herb. Cryptog. Bot. 16: 79, 1981 (Gradstein and Terken 1981). Bas.: *Archilejeunea nymannii* Steph., Sp. Hepat. (Stephani) 4: 730, 1911 (Stephani 1911e).
- *** *Schiffneriolejeunea polycarpa* (Nees) Gradst., J. Hattori Bot. Lab. 38: 335, 1974 (Gradstein 1974a). Bas.: *Jungermannia polycarpa* Nees, Fl. Bras. (Martius) 1 (1): 350, 1833 (Nees 1833a).
- *** *Schiffneriolejeunea pulopenangensis* (Gottsche) Gradst., J. Hattori Bot. Lab. 38: 335, 1974 (Gradstein 1974a). Bas.: *Phragmicoma pulopenangensis* Gottsche, Syn. Hepat. 2: 299, 1845 (Gottsche et al. 1845a).
- ** ***Spruceanthus* Verd.**, Ann. Bryol., Suppl. 4: 151, 1934 (Verdoorn 1934a).
- *** *Spruceanthus macrostipulus* (Steph.) Gradst., Trop. Bryol. 4: 13, 1991 (Gradstein 1991). Bas.: *Mastigolejeunea macrostipula* Steph., Sp. Hepat. (Stephani) 4: 767, 1912 (Stephani 1912b).
- ** *Spruceanthus mamillilobulus* (Herzog) Verd., Hepat. Select. Crit. 9: no. 447, 1936 (Verdoorn 1936; non vidi). Bas.: *Ptychanthus mamillilobulus* Herzog, Symb. Sin. 5: 44, 1930 (Nicholson et al. 1930).
- *** *Spruceanthus pluriplacatus* (Steph.) Gradst., Schriftenreihe Mensch, Kultur Umwelt z. Bergl. W Neug. 7: 14, 1981 (Hiepkko and Schultze-Motel 1981). Bas.: *Brachiolejeunea pluriplacata* Steph., Sp. Hepat. (Stephani) 5: 135, 1912 (Stephani 1912c).
- *** *Spruceanthus polymorphus* (Sande Lac.) Verd., Ann. Bryol., Suppl. 4: 155, 1934 (Verdoorn 1934a). Bas.: *Phragmicoma polymorpha* Sande Lac., Ned. Kruidk. Arch. 3: 420, 1854 [1855] (Sande Lacoste 1854).
- *** *Spruceanthus semirepandus* (Nees) Verd., Ann. Bryol., Suppl. 4: 153, 1934 (Verdoorn 1934a). Bas.: *Jungermannia semirepanda* Nees, Enum. Pl. Crypt. Javae: 39, 1830 (Nees 1830).

- *** *Spruceanthus sulcatus* (Nees) Gradst., Beih. Nova Hedwigia 80: 26, 1985 (Gradstein 1985a). Bas.: *Jungermannia sulcata* Nees, Enum. Pl. Crypt. Javae: 36, 1830 (Nees 1830).
- *** *Spruceanthus theobromae* (Spruce) Gradst., Beih. Nova Hedwigia 80: 26, 1985 (Gradstein 1985a). Bas.: *Lejeunea theobromae* Spruce, Trans. & Proc. Bot. Soc. Edinburgh 15: 99, 1884 (Spruce 1884).
- *** *Spruceanthus thozetianus* (Gottsche et F.Muell.) B.M.Thiers et Gradst., Mem. New York Bot. Gard. 52: 62, 1989 (Thiers and Gradstein 1989). Bas.: *Phragmicoma thozetiana* Gottsche et F.Muell., Fragm. (Mueller): 63, 1880 (Gottsche 1880).
- *** ***Thysananthus Lindenb.***, Nov. Stirp. Pug. 8: 24, 1844 (Lehmann 1844).
- ** **sect. *Thysananthus***
- ** **subsect. *Anguiformes* Sukkharak**, Phytotaxa 193 (1): 37, 2015 (Sukkharak 2015).
- *** *Thysananthus anguiformis* (Hook.f. et Taylor) Gottsche, Lindenb. et Nees, Syn. Hepat. 2: 289, 1845 (Gottsche et al. 1845a). Bas.: *Jungermannia anguiformis* Hook.f. et Taylor, London J. Bot. 3: 567, 1844 (Hooker and Taylor 1844d).
- *** *Thysananthus pancheri* (Steph.) Hürl., Bauhinia 9 (2): 167, 1989 (Hürlimann 1989). Bas.: *Mastigolejeunea pancheri* Steph., Sp. Hepat. (Stephani) 4: 771, 1912 (Stephani 1912b).
- ** **subsect. *Thysananthus***
- *** *Thysananthus aculeatus* Herzog, Ann. Bryol. 4: 89, 1931 (Herzog 1931b).
- *** *Thysananthus amazonicus* (Spruce) Schiffn., Hepat. (Engl.-Prantl): 130, 1893 (Schiffner 1893b). Bas.: *Lejeunea amazonica* Spruce, Trans. & Proc. Bot. Soc. Edinburgh 15: 106, 1884 (Spruce 1884).
- *** *Thysananthus appendiculatus* Steph., Sp. Hepat. (Stephani) 4: 794, 1912 (Stephani 1912b).
- ** *Thysananthus ciliaris* (Sande Lac.) Sukkharak, Nova Hedwigia 99 (3/4): 339, 2014 (Sukkharak and Gradstein 2014). Bas.: *Phragmicoma ciliaris* Sande Lac., Ann. Mus. Bot. Lugduno-Batavi 1: 307, 1864 (Sande Lacoste 1864).
- *** *Thysananthus comosus* Lindenb., Nov. Stirp. Pug. 8: 25, 1844 (Lehmann 1844).
- *** *Thysananthus convolutus* Lindenb., Syn. Hepat. 2: 288, 1845 (Gottsche et al. 1845a).
- ** *Thysananthus convolutus* var. *laceratus* (Steph.) Sukkharak, Phytotaxa 193 (1): 30, 2015 (Sukkharak 2015). Bas.: *Thysananthus laceratus* Steph., Sp. Hepat. (Stephani) 4: 796, 1912 (Stephani 1912b).
- *** *Thysananthus discretus* Sukkharak et Gradst., Cryptog. Bryol. 31 (2): 113, 2010 (Sukkharak and Gradstein 2010).
- *** *Thysananthus gottschei* (J.B.Jack et Steph.) Steph., Sp. Hepat. (Stephani) 4: 787, 1912 (Stephani 1912b). Bas.: *Thysanolejeunea gottschei* J.B.Jack et Steph., Hedwigia 31 (1): 20, 1892 (Jack and Stephani 1892).
- ** *Thysananthus gottschei* var. *continuus* Sukkharak, Phytotaxa 193 (1): 33, 2015 (Sukkharak 2015).

- *** *Thysananthus spathulistipus* (Reinw., Blume et Nees) Lindenb., Syn. Hepat. 2: 287, 1845 (Gottsche et al. 1845a). Bas.: *Jungermannia spathulistipa* Reinw., Blume et Nees, Nova Acta Phys.-Med. Acad. Caes. Leop.-Carol. Nat. Cur. 12 (1): 212, 1824 [1825] (Reinwardt et al. 1824a).
- ** **sect. *Vittatae* Verd.**, Ann. Bryol., Suppl. 4: 182, 1934 (Verdoorn 1934a).
- ** **subsect. *Sandeanthus* (B.M.Thiers et Gradst.) Sukkharak**, Phytotaxa 193 (1): 43, 2015 (Sukkharak 2015). Bas.: *Thysananthus* subg. *Sandeanthus* B.M.Thiers et Gradst., Mem. New York Bot. Gard. 52: 66, 1989 (Thiers and Gradstein 1989).
- *** *Thysananthus mollis* Steph., Sp. Hepat. (Stephani) 4: 798, 1912 (Stephani 1912b).
- *** *Thysananthus montanus* Gradst., Xiao L.He et Piippo, Acta Bot. Fenn. 174: 77, 2002 (Gradstein et al. 2002).
- *** *Thysananthus retusus* (Reinw., Blume et Nees) B.M.Thiers et Gradst., Mem. New York Bot. Gard. 52: 67, 1989 (Thiers and Gradstein 1989). Bas.: *Jungermannia retusa* Reinw., Blume et Nees, Nova Acta Phys.-Med. Acad. Caes. Leop.-Carol. Nat. Cur. 12 (1): 214, 1824 [1825] (Reinwardt et al. 1824a).
- ** *Thysananthus retusus* subsp. *sellingii* (Herzog) Sukkharak, Phytotaxa 193 (1): 47, 2015 (Sukkharak 2015). Bas.: *Mastigolejeunea sellingii* Herzog, Ark. Bot. (n.ser.) 3 (3): 60, 1953 (Herzog 1953a).
- ** **subsect. *Vittatae* (Verd.) Sukkharak**, Phytotaxa 193 (1): 40, 2015 (Sukkharak 2015). Bas.: *Thysananthus* sect. *Vittatae* Verd., Ann. Bryol., Suppl. 4: 182, 1934 (Verdoorn 1934a).
- *** *Thysananthus fruticosus* (Lindenb. et Gottsche) Schiffn., Hepat. (Engl.-Prantl): 130, 1893 (Schiffner 1893b). Bas.: *Bryopteris fruticosa* Lindenb. et Gottsche, Syn. Hepat. 5: 737, 1847 (Gottsche et al. 1847).
- ** ***Tuzibeanthus* S.Hatt.**, Biosphaera 1 (1): 7, 1947 (Hattori 1947a).
- *** *Tuzibeanthus chinensis* (Steph.) Mizut., J. Hattori Bot. Lab. 24: 151, 1961 (Mizutani 1961). Bas.: *Ptychanthus chinensis* Steph., Sp. Hepat. (Stephani) 4: 744, 1911 (Stephani 1911e).
- ** ***Verdoornianthus* Gradst.**, Bryologist 80 (4): 607, 1977 [1978] (Gradstein 1977).
- *** *Verdoornianthus griffinii* Gradst., Bryologist 80 (4): 609, 1977 [1978] (Gradstein 1977).
- *** *Verdoornianthus marsupiiifolius* (Spruce) Gradst., Bryologist 80 (4): 609, 1977 [1978] (Gradstein 1977). Bas.: *Lejeunea marsupiiifolia* Spruce, Trans. & Proc. Bot. Soc. Edinburgh 15: 118, 1884 (Spruce 1884).

Porellineae R.M.Schust.

*** Goebeliellaceae Verd.

by M. von Konrat and M.A.M. Renner

*** *Goebeliella* Steph., Hedwigia 51 (1): 61, 1911 (Stephani 1911c).

*** *Goebeliella cornigera* (Mitt.) Steph., Hedwigia 51 (1): 62, 1911 (Stephani 1911c). Bas.: *Frullania cornigera* Mitt., Bot. antarct. voy. II (Fl. Nov.-Zel. 2): 163, 1855 (Mitten 1855).

*** Lepidolaenaceae Nakai

by M. von Konrat

The generic composition of Lepidolaenaceae follows Crandall-Stotler et al. (2009), except that the genus *Jubulopsis* was reduced to a synonym of *Lepidolaena* by von Konrat et al. (2012a).

*** *Gackstroemia* Trevis., Mem. Reale Ist. Lombardo Sci. (Ser. 3), C. Sci. Mat. 4 (13): 397, 1877 (Trevisan 1877).

** subg. *Gackstroemia*

** *Gackstroemia ljungeri* (Herzog) Grolle, J. Hattori Bot. Lab. 30: 17, 1967 (Grolle 1967a). Bas.: *Lepidolaena ljungeri* Herzog, Ark. Bot. 29A (21): 6, 1940 (Herzog 1940).

*** *Gackstroemia magellanica* (Lam.) Trevis., Mem. Reale Ist. Lombardo Sci. (Ser. 3), C. Sci. Mat. 4 (13): 397, 1877 (Trevisan 1877). Bas.: *Jungermannia magellanica* Lam., Encycl. (Lamarck) 3 (1): 284, 1789 (Lamarck 1789).

*** *Gackstroemia novae-zelandiae* R.M.Schust. et J.J.Engel, Phytotaxa 118 (1): 10, 2013 (Engel 2013a).

*** *Gackstroemia weindorferi* (Herzog) Grolle, J. Hattori Bot. Lab. 30: 20, 1967 (Grolle 1967a). Bas.: *Lepidolaena weindorferi* Herzog, Ann. Bryol. 6: 103, 1933 (Verdoorn 1933a).

** subg. *Hariotiella* (Besch. et C.Massal. ex Schiffn.) Grolle, J. Hattori Bot. Lab. 30: 12, 1967 (Grolle 1967a). Bas.: *Lepidolaena* subg. *Hariotiella* Besch. et C.Massal. ex Schiffn., Hepat. (Engl.-Prantl): 110, 1893 (Schiffner 1893b).

*** *Gackstroemia hariotiana* (Besch. et C.Massal.) Grolle, J. Hattori Bot. Lab. 30: 12, 1967 (Grolle 1967a). Bas.: *Polyotus hariotianus* Besch. et C.Massal., Bull. Mens. Soc. Linn. Paris 1 (79): 639, 1886 (Bescherelle and Massalongo 1886).

- *** *Gackstroemia patagonica* (Steph.) Grolle, J. Hattori Bot. Lab. 30: 14, 1967 (Grolle 1967a). Bas.: *Lepidolaena patagonica* Steph., Kungl. Svenska Vetensk.-Akad. Handl. (n.ser.) 46 (9): 76, 1911 (Stephani 1911b).
- ** *Gackstroemia schwabei* (Herzog) Grolle, J. Hattori Bot. Lab. 30: 16, 1967 (Grolle 1967a). Bas.: *Lepidolaena schwabei* Herzog, Rev. Bryol. Lichénol. 29 (3/4): 191, 1960 [1961] (Herzog 1960).

Incertae sedis

- *** *Gackstroemia alpina* R.M.Schust., J. Hattori Bot. Lab. 36: 349, 1972 [1973] (Schuster 1972).
- *** ***Lepidogyna* R.M.Schust.**, Phytologia 45 (5): 419, 1980 (Schuster 1980b).
- *** *Lepidogyna hodgsoniae* (Grolle) R.M.Schust., Phytologia 45 (5): 419, 1980 (Schuster 1980b). Bas.: *Lepidolaena hodgsoniae* Grolle, J. Hattori Bot. Lab. 30: 29, 1967 (Grolle 1967a).
- *** *Lepidogyna menziesii* (Hook.) R.M.Schust., Phytologia 45 (5): 419, 1980 (Schuster 1980b). Bas.: *Jungermannia menziesii* Hook., Musci Exot. 2: tab. 118, 1820 (Hooker 1820).
- *** ***Lepidolaena Dumort.***, Recueil Observ. Jungerm.: 13, 1835 (Dumortier 1835).³⁶⁹
- *** *Lepidolaena berggrenii* E.A.Hodgs., Trans. Roy. Soc. New Zealand 87 (3/4): 205, 1959 (Hodgson 1959).
- ** *Lepidolaena brachyclada* (Lehm.) Trevis., Mem. Reale Ist. Lombardo Sci. (Ser. 3), C. Sci. Mat. 4 (13): 393, 1877 (Trevisan 1877). Bas.: *Frullania brachyclada* Lehm., Nov. Stirp. Pug. 8: 21, 1844 (Lehmann 1844).
- *** *Lepidolaena clavigera* (Hook.) Dumort. ex Trevis., Mem. Reale Ist. Lombardo Sci. (Ser. 3), C. Sci. Mat. 4 (13): 393, 1877 (Trevisan 1877). Bas.: *Jungermannia clavigera* Hook., Musci Exot. 1: tab. 70, 1818 (Hooker 1818).
- *** *Lepidolaena novae-zelandiae* (E.A.Hodgs. et S.W.Arnell) von Konrat, L.Söderstr. et A.Hagborg, Phytotaxa 65: 51, 2012 (von Konrat et al. 2012a). Bas.: *Jubula novae-zelandiae* E.A.Hodgs. et S.W.Arnell, Trans. Roy. Soc. New Zealand, Bot. 3 (4): 90, 1965 (Hodgson 1965).
- *** *Lepidolaena palpebrifolia* (Hook.) Dumort. ex Trevis., Mem. Reale Ist. Lombardo Sci. (Ser. 3), C. Sci. Mat. 4 (13): 393, 1877 (Trevisan 1877). Bas.: *Jungermannia palpebrifolia* Hook., Musci Exot. 1: tab. 71, 1818 (Hooker 1818).
- *** *Lepidolaena reticulata* (Hook.f. et Taylor) Trevis., Mem. Reale Ist. Lombardo Sci. (Ser. 3), C. Sci. Mat. 4 (13): 393, 1877 (Trevisan 1877). Bas.: *Jungermannia reticulata* Hook.f. et Taylor, London J. Bot. 3: 395, 1844 (Hooker and Taylor 1844a).

³⁶⁹ *Lepidolaena* includes *Polyotus*, but a few taxa have neither been transferred nor synonymized. They are listed in the “Names in genera not currently accepted” section below.

- *** *Lepidolaena taylorii* (Gottsche) Trevis., Mem. Reale Ist. Lombardo Sci. (Ser. 3), C. Sci. Mat. 4 (13): 393, 1877 (Trevisan 1877). Bas.: *Polyotus taylorii* Gottsche, Syn. Hepat. 2: 246, 1845 (Gottsche et al. 1845a).
- *** Porellaceae Cavers *nom. conserv.*
- *** *Ascidiota* C.Massal., Nuovo Giorn. Bot. Ital. (n.ser.) 5 (2): 256, 1898 (Massalongo 1898).
- *** *Ascidiota blepharophylla* C.Massal., Nuovo Giorn. Bot. Ital. (n.ser.) 5 (2): 257, 1898 (Massalongo 1898).
- ** *Ascidiota blepharophylla* subsp. *alaskana* Steere et R.M.Schust., Bull. Torrey Bot. Club 87 (3): 213, 1960 (Steere and Schuster 1960).
- *** *Porella* L., Sp. Pl. 1: 1106, 1753 (Linnaeus 1753).
- ** *Porella abyssinica* (Nees) Trevis., Mem. Reale Ist. Lombardo Sci. (Ser. 3), C. Sci. Mat. 4 (13): 407, 1877 (Trevisan 1877). Bas.: *Madotheca abyssinica* Nees, Syn. Hepat. 2: 281, 1845 (Gottsche et al. 1845a).
- ** *Porella abyssinica* var. *hoehnelii* (Steph.) Pócs, Fragm. Florist. Geobot. 39 (1): 229, 1994 (Pócs 1994a). Bas.: *Porella hoehnelii* Steph., Hedwigia 30 (6): 266, 1891 (Stephani 1891c).
- ** *Porella acutifolia* (Lehm. et Lindenb.) Trevis., Mem. Reale Ist. Lombardo Sci. (Ser. 3), C. Sci. Mat. 4 (13): 408, 1877 (Trevisan 1877). Bas.: *Madotheca acutifolia* Lehm. et Lindenb., Nov. Stirp. Pug. 7: 8, 1838 (Lehmann 1838).
- ** *Porella acutifolia* var. *hattoriana* (Pócs) S.Hatt., Misc. Bryol. Lichenol. 8 (4): 79, 1979 (Hattori 1979c). Bas.: *Porella plumosa* var. *hattoriana* Pócs, J. Hattori Bot. Lab. 31: 82, 1968 (Pócs 1968).
- * *Porella acutifolia* var. *linguifolia* (Steph.) M.L.So, Syst. Bot. 27 (1): 5, 2002 (So 2002a). Bas.: *Madotheca linguifolia* Steph., Sp. Hepat. (Stephani) 4: 291, 1910 (Stephani 1910b).³⁷⁰
- ** *Porella acutifolia* subsp. *tosana* (Steph.) S.Hatt., J. Hattori Bot. Lab. 44: 100, 1978 (Hattori 1978a). Bas.: *Madotheca tosana* Steph., Bull. Herb. Boissier 5 (2): 97, 1897 (Stephani 1897b).
- * *Porella andica* (Gottsche) Hässel, Beih. Nova Hedwigia 134: 452, 2009 (Hässel and Rubies 2009). Bas.: *Madotheca andica* Gottsche, Ann. Sci. Nat. Bot. (sér. 4) 8: 339, 1857 (Gottsche 1857).³⁷¹

³⁷⁰ *Porella acutifolia* var. *linguifolia* was accepted by So (2002a), but it is conspecific with *Plagiochila viridissima* in Hattori (1976f, 1986d). This synonymy is doubtful and further study is necessary to clarify the status.

³⁷¹ *Madotheca andica* was transferred to *Porella* by Hässel (in Hässel and Rubies 2009), but she did not study the type specimen. It may be conspecific with *Plagiochila subsquarrosa*.

- *** *Porella arboris-vitae* (With.) Grolle, Trans. Brit. Bryol. Soc. 5 (4): 770, 1969 (Grolle 1969b). Bas.: *Jungermannia arboris-vitae* With., Bot. arr. veg. Gr. Brit. 2: 697, 1776 (Withering 1776).
- ** *Porella arboris-vitae* subsp. *nitidula* (C.Massal.) S.Hatt., J. Hattori Bot. Lab. 40: 123, 1976 (Hattori 1976f). Bas.: *Madotheca nitidula* C.Massal., Bull. Soc. Bot. Ital. 1906: 141, 1906 (Massalongo 1906b).
- ** *Porella baueri* (Schiffn.) C.E.O.Jensen, Danmarks mosser: 240, 1915 (Jensen 1915). Bas.: *Madotheca baueri* Schiffn., Sitzungsber. deutsch. naturwiss.-med. Vereins Böhmen "Lotos" Prag 48: 346, 1900 (Schiffner 1900d).
- ** *Porella bolanderi* (Austin) Pearson, List. Canad. Hepat.: 7, 1890 (Pearson 1890). Bas.: *Madotheca bolanderi* Austin, Bull. Torrey Bot. Club 3 (3): 14, 1872 (Austin 1872).
- ** *Porella borellii* (Gola) Parihar, Univ. Allahabad Stud., Bot. 1961-2: 15, 1962 (Parihar 1962). Bas.: *Madotheca borellii* Gola, Atti Reale Accad. Sci. Torino, Cl. Sci. Fis. Mat. Nat. 49: 760, 1914 (Gola 1914b).
- *** *Porella brachiata* (Taylor) Spruce, Trans. & Proc. Bot. Soc. Edinburgh 15: 334, 1885 (Spruce 1885). Bas.: *Madotheca brachiata* Taylor, London J. Bot. 6: 341, 1847 (Taylor 1847b).
- *** *Porella brasiliensis* (Raddi) Schiffn., Nova Acta Acad. Caes. Leop.-Carol. German. Nat. Cur. 60 (2): 246, 1893 (Schiffner 1893a). Bas.: *Schulthesia brasiliensis* Raddi, Critt. Brasil.: 10, 1822 (Raddi 1822).
- * *Porella brasiliensis* var. *ciliata* (Gottsche, Lindenb. et Nees) Schiffn., Nova Acta Acad. Caes. Leop.-Carol. German. Nat. Cur. 60 (2): 246, 1893 (Schiffner 1893a). Bas.: *Madotheca brasiliensis* β *ciliata* Gottsche, Lindenb. et Nees, Syn. Hepat. 2: 271, 1845 (Gottsche et al. 1845a).
- * *Porella brasiliensis* var. *laevior* (Gottsche, Lindenb. et Nees) Schiffn., Nova Acta Acad. Caes. Leop.-Carol. German. Nat. Cur. 60 (2): 246, 1893 (Schiffner 1893a). Bas.: *Madotheca brasiliensis* α *laevior* Gottsche, Lindenb. et Nees, Syn. Hepat. 2: 271, 1845 (Gottsche et al. 1845a).
- ** *Porella caespitans* (Steph.) S.Hatt., J. Hattori Bot. Lab. 33: 50, 1970 (Hattori 1970). Bas.: *Madotheca caespitans* Steph., Mém. Soc. Nat. Sci. Nat. Math. Cherbourg 29: 218, 1894 (Stephani 1894b).³⁷²
- ** *Porella caespitans* var. *cordifolia* (Steph.) S.Hatt. ex T.Katag. et T.Yamag., Bryol. Res. 10 (5): 133, 2011 (Katagiri and Yamaguchi 2011). Bas.: *Madotheca cordifolia* Steph., Sp. Hepat. (Stephani) 4: 315, 1910 (Stephani 1910b).
- ** *Porella caespitans* subsp. *latior* (S.Hatt.) S.Hatt., J. Hattori Bot. Lab. 40: 127, 1976 (Hattori 1976f). Bas.: *Porella acutifolia* subsp. *latior* S.Hatt., J. Hattori Bot. Lab. 32: 325, 1969 (Hattori 1969).
- ** *Porella caespitans* var. *nipponica* S.Hatt., J. Hattori Bot. Lab. 33: 57, 1970 (Hattori 1970).

³⁷² *Porella caespitans* was resolved as polyphyletic in the phylogeny of Hentschel et al. (2007b), suggesting that the species is a complex deserving further study.

- ** *Porella caespitans* var. *reflexigastria* (Pócs) S.Hatt., J. Hattori Bot. Lab. 40: 127, 1976 (Hattori 1976f). Bas.: *Porella reflexigastria* Pócs, J. Hattori Bot. Lab. 31: 71, 1968 (Pócs 1968).
- ** *Porella campylophylla* (Lehm. et Lindenb.) Trevis., Mem. Reale Ist. Lombardo Sci. (Ser. 3), C. Sci. Mat. 4 (13): 408, 1877 (Trevisan 1877). Bas.: *Jungermannia campylophylla* Lehm. et Lindenb., Nov. Stirp. Pug. 6: 40, 1834 (Lehmann 1834).
- ** *Porella campylophylla* subsp. *lancistipula* (Steph.) S.Hatt., J. Hattori Bot. Lab. 44: 102, 1978 (Hattori 1978a). Bas.: *Madotheca lancistipula* Steph., Sp. Hepat. (Stephani) 6: 524, 1924 (Stephani 1924).
- ** *Porella campylophylla* var. *ligulifera* (Taylor) S.Hatt., J. Hattori Bot. Lab. 32: 333, 1969 (Hattori 1969). Bas.: *Madotheca ligulifera* Taylor, Nov. Stirp. Pug. 8: 10, 1844 (Lehmann 1844).
- ** *Porella campylophylla* var. *tixieri* (Pócs) S.Hatt., J. Hattori Bot. Lab. 40: 128, 1976 (Hattori 1976f). Bas.: *Porella plumosa* var. *tixieri* Pócs, J. Hattori Bot. Lab. 31: 82, 1968 (Pócs 1968).
- ** *Porella canariensis* (F.Weber) Underw., Rep. (Annual) Missouri Bot. Gard. 8: 186, 1897 (Trelease 1897). Bas.: *Jungermannia platyphylla* var. *canariensis* F.Weber, Hist. Musc. Hepat. Prodr.: 16, 1815 (Weber 1815).
- * *Porella capehorniensis* Swails, Nova Hedwigia 19: 244, 1970 (Swails 1970).³⁷³
- ** *Porella capensis* (Gottsche) Mitt., J. Linn. Soc., Bot. 22 (146): 323, 1886 (Mitten 1886b). Bas.: *Madotheca capensis* Gottsche, Syn. Hepat. 2: 270, 1845 (Gottsche et al. 1845a).
- * *Porella caucasica* Steph., Bot. Centralbl. 50 (3): 71, 1892 (Stephani 1892a).
- ** *Porella chenii* S.Hatt., J. Hattori Bot. Lab. 30: 129, 1967 (Hattori 1967).
- *** *Porella chilensis* (Lehm. et Lindenb.) Trevis., Mem. Reale Ist. Lombardo Sci. (Ser. 3), C. Sci. Mat. 4 (13): 407, 1877 (Trevisan 1877). Bas.: *Jungermannia chilensis* Lehm. et Lindenb., Nov. Stirp. Pug. 6: 36, 1834 (Lehmann 1834).
- * *Porella chilensis* var. *antucensis* (Gottsche) Hässel, Beih. Nova Hedwigia 134: 452, 2009 (Hässel and Rubies 2009). Bas.: *Madotheca chilensis* β *antucensis* Gottsche, Ann. Sci. Nat. Bot. (sér. 4) 8: 340, 1857 (Gottsche 1857).
- ** *Porella chilensis* var. *fernandeziensis* (Herzog) Swails, Nova Hedwigia 19: 236, 1970 (Swails 1970). Bas.: *Madotheca chilensis* f. *fernandeziensis* Herzog, Nat. Hist. Juan Fernandez (Botany) 2 (5): 736, 1942 (Herzog 1942a).
- ** *Porella chilensis* var. *microloba* (Herzog) Swails, Nova Hedwigia 19: 236, 1970 (Swails 1970). Bas.: *Madotheca chilensis* f. *microloba* Herzog, Nat. Hist. Juan Fernandez (Botany) 2 (5): 736, 1942 (Herzog 1942a).
- ** *Porella chinensis* (Steph.) S.Hatt., J. Hattori Bot. Lab. 30: 131, 1967 (Hattori 1967). Bas.: *Madotheca chinensis* Steph., Mém. Soc. Nat. Sci. Nat. Math. Cherbourg 29: 218, 1894 (Stephani 1894b).

373 *Porella capehorniensis* may be conspecific with *Plagiochila setigera* and the type specimen is probably not from South America (Hässel and Rubies 2009).

- ** *Porella chinensis* var. *crispata* Udar et Shaheen, Misc. Bryol. Lichenol. 9 (4): 74, 1982 (Udar and Shaheen 1982).
- ** *Porella chinensis* var. *decurrens* (Steph.) S.Hatt., J. Hattori Bot. Lab. 44: 102, 1978 (Hattori 1978a). Bas.: *Madotheca decurrens* Steph., Sp. Hepat. (Stephani) 4: 289, 1910 (Stephani 1910b).
- ** *Porella chinensis* var. *hattorii* Udar et Shaheen, Misc. Bryol. Lichenol. 9 (7): 146, 1983 (Udar and Shaheen 1983a).
- ** *Porella chinensis* var. *irregularis* (Steph.) S.Hatt., J. Hattori Bot. Lab. 39: 270, 1975 (Hattori 1975c). Bas.: *Madotheca irregularis* Steph., Sp. Hepat. (Stephani) 4: 304, 1910 (Stephani 1910b).
- ** *Porella circinnata* Lindb., Not. Sällsk. Fauna Fl. Fenn. Förh. 13: 355, 1874 (Lindberg 1874a).
- *** *Porella cordaeana* (Huebener) Moore, Proc. Roy. Irish Acad. (ser. 2) 2: 618, 1877 (Moore 1877). Bas.: *Jungermannia cordaeana* Huebener, Hepaticol. germ.: 291, 1834 (Hübener 1834).
- ** *Porella cranfordii* Steph., Hedwigia 28 (4): 270, 1889 (Stephani 1889c).
- *** *Porella crispata* (Hook.) Trevis., Mem. Reale Ist. Lombardo Sci. (Ser. 3), C. Sci. Mat. 4 (13): 407, 1877 (Trevisan 1877). Bas.: *Jungermannia crispata* Hook., Pl. crypt. (Hooker): tab. 4b, 1816 (Hooker 1816b).
- ** *Porella cucullistipula* Steph., Bull. Soc. Roy. Bot. Belgique, Compt. Rend. 32 (2): 38, 1893 [1894] (Stephani 1893e).
- ** *Porella densifolia* (Steph.) S.Hatt., J. Jap. Bot. 20: 109, 1944 (Hattori 1944c). Bas.: *Madotheca densifolia* Steph., Mém. Soc. Nat. Sci. Nat. Math. Cherbourg 29: 219, 1894 (Stephani 1894b).³⁷⁴
- ** *Porella densifolia* subsp. *andamana* S.Hatt., J. Hattori Bot. Lab. 32: 346, 1969 (Hattori 1969).
- ** *Porella densifolia* subsp. *appendiculata* (Steph.) S.Hatt., J. Hattori Bot. Lab. 32: 343, 1969 (Hattori 1969). Bas.: *Madotheca appendiculata* Steph., Sp. Hepat. (Stephani) 4: 301, 1910 (Stephani 1910b).
- ** *Porella densifolia* var. *oviloba* (Steph.) N.Kitag., Acta Phytotax. Geobot. 19 (2/3): 64, 1962 (Kitagawa 1962b). Bas.: *Madotheca oviloba* Steph., Sp. Hepat. (Stephani) 4: 312, 1910 (Stephani 1910b).
- ** *Porella densifolia* var. *paraphyllina* (P.C.Chen) Pócs, J. Hattori Bot. Lab. 31: 84, 1968 (Pócs 1968). Bas.: *Madotheca paraphyllina* P.C.Chen, Feddes Repert. Spec. Nov. Regni Veg. 58: 42, 1955 (Chen 1955).
- ** *Porella densifolia* var. *pilosa* S.Hatt. et K.C.Chang, Bull. Bot. Res., Harbin 8 (2): 44, 1988 (Chang 1988).
- ** *Porella densifolia* var. *robusta* (Steph.) S.Hatt., J. Hattori Bot. Lab. 32: 343, 1969 (Hattori 1969). Bas.: *Madotheca robusta* Steph., Sp. Hepat. (Stephani) 4: 313, 1910 (Stephani 1910b).

³⁷⁴ *Porella densifolia* was resolved as paraphyletic in the phylogeny of Hentschel et al. (2007b), suggesting that the species is a complex deserving further study.

- *** *Porella elegantula* (Mont.) E.A.Hodgs., Svensk Bot. Tidskr. 42 (3): 277, 1948 (Hodgson and Sainsbury 1948). Bas.: *Madotheca elegantula* Mont., Ann. Sci. Nat. Bot. (sér. 2) 19: 255, 1843 (Montagne 1843).
- ** *Porella faurieri* (Steph.) S.Hatt., J. Jap. Bot. 20: 109, 1944 (Hattori 1944c). Bas.: *Madotheca faurieri* Steph., Sp. Hepat. (Stephani) 4: 315, 1910 (Stephani 1910b).
- ** *Porella fengii* P.C.Chen et S.Hatt., J. Hattori Bot. Lab. 30: 133, 1967 (Hattori 1967).
- ** *Porella gebeebii* (Steph.) S.Hatt., Bot. Mag. (Tokyo) 64 (755/756): 114, 1951 (Hattori 1951c). Bas.: *Madotheca gebeebii* Steph., Sp. Hepat. (Stephani) 4: 290, 1910 (Stephani 1910b).
- ** *Porella gracillima* Mitt., Trans. Linn. Soc. London, Bot. 3 (3): 202, 1891 (Mitten 1891).
- ** *Porella grandifolia* (Steph.) S.Hatt., J. Hattori Bot. Lab. 30: 136, 1967 (Hattori 1967). Bas.: *Madotheca grandifolia* Steph., Sp. Hepat. (Stephani) 4: 289, 1910 (Stephani 1910b).
- ** *Porella grandiloba* Lindb., Acta Soc. Sci. Fenn. 10: 234, 1872 [1873] (Lindberg 1872b).
- ** *Porella grollei* S.Hatt., J. Hattori Bot. Lab. 34: 411, 1971 (Hattori 1971b).
- ** *Porella handelii* S.Hatt., J. Hattori Bot. Lab. 33: 65, 1970 (Hattori 1970).
- ** *Porella hattorii* Udar et Shaheen, Lindbergia 9 (1): 70, 1983 (Udar and Shaheen 1983b).
- ** *Porella hoeana* S.Hatt., Misc. Bryol. Lichenol. 7 (5): 86, 1976 (Hattori 1976c).
- * *Porella imbricata* Lour., Fl. Cochinch. 2: 683, 1790 (Loureiro 1790).
- ** *Porella inaequalis* (Gottsche) Perss., Arch. Soc. Zool. Bot. Fenn. "Vanamo", suppl. 9: 225, 1955 (Persson 1955). Bas.: *Madotheca inaequalis* Gottsche, Sp. Hepat. (Stephani) 4: 251, 1910 (Stephani 1910b).
- ** *Porella japonica* (Sande Lac.) Mitt., Trans. Linn. Soc. London, Bot. 3 (3): 202, 1891 (Mitten 1891). Bas.: *Madotheca japonica* Sande Lac., Syn. hepat. jav.: 105, 1856 [1857] (Sande Lacoste 1856b).
- ** *Porella japonica* subsp. *appalachiana* R.M.Schust., Hepat. Anthocerotae N. Amer. 4: 682, 1980 (Schuster 1980c).
- ** *Porella japonica* var. *densespinosa* S.Hatt. et M.X.Zhang, J. Jap. Bot. 60 (11): 324, 1985 (Hattori and Zhang 1985).
- ** *Porella javanica* (Gottsche) Inoue, J. Hattori Bot. Lab. 30: 60, 1967 (Inoue 1967a). Bas.: *Madotheca javanica* Gottsche, Sp. Hepat. (Stephani) 4: 290, 1910 (Stephani 1910b).
- ** *Porella latifolia* J.S.Lou et Q.Li, Acta Phytotax. Sin. 25 (6): 482, 1987 (Lou 1987).
- *** *Porella leiboldii* (Lehm.) Trevis., Mem. Reale Ist. Lombardo Sci. (Ser. 3), C. Sci. Mat. 4 (13): 407, 1877 (Trevisan 1877). Bas.: *Madotheca leiboldii* Lehm., Nov. Stirp. Pug. 8: 11, 1844 (Lehmann 1844).
- ** *Porella longifolia* (Steph.) S.Hatt., J. Hattori Bot. Lab. 32: 351, 1969 (Hattori 1969). Bas.: *Madotheca longifolia* Steph., Sp. Hepat. (Stephani) 4: 305, 1910 (Stephani 1910b).
- ** *Porella madagascariensis* (Nees et Mont.) Trevis., Mem. Reale Ist. Lombardo Sci. (Ser. 3), C. Sci. Mat. 4 (13): 407, 1877 (Trevisan 1877). Bas.: *Lejeunea madagascariensis* Nees et Mont., Ann. Sci. Nat. Bot. (sér. 2) 5: 57, 1836 (Nees and Montagne 1836).

- * *Porella maxima* (Steph.) M.L.So, Syst. Bot. 27 (1): 11, 2002 (So 2002a). Bas.: *Madotheca maxima* Steph., Sp. Hepat. (Stephani) 4: 291, 1910 (Stephani 1910b).³⁷⁵
- *** *Porella mexicana* (Hampe ex Gottsche, Lindenb. et Nees) Trevis., Mem. Reale Ist. Lombardo Sci. (Ser. 3), C. Sci. Mat. 4 (13): 407, 1877 (Trevisan 1877). Bas.: *Madotheca mexicana* Hampe ex Gottsche, Lindenb. et Nees, Syn. Hepat. 2: 273, 1845 (Gottsche et al. 1845a).
- ** *Porella montantii* (Steph.) E.W.Jones, Trans. Brit. Bryol. Soc. 4 (3): 460, 1963 (Jones 1963). Bas.: *Madotheca montantii* Steph., Sp. Hepat. (Stephani) 4: 259, 1910 (Stephani 1910b).
- *** *Porella navicularis* (Lehm. et Lindenb.) Pfeiff., Fl. Niederhessen 2: 234, 1855 (Pfeiffer 1855). Bas.: *Jungermannia navicularis* Lehm. et Lindenb., Nov. Stirp. Pug. 6: 38, 1834 (Lehmann 1834).
- ** *Porella nitens* (Steph.) S.Hatt., Fl. E. Himalaya: 525, 1966 (Hattori 1966c). Bas.: *Madotheca nitens* Steph., Mém. Soc. Nat. Sci. Nat. Math. Cherbourg 29: 220, 1894 (Stephani 1894b).
- ** *Porella oblongifolia* S.Hatt., J. Jap. Bot. 19 (7): 200, 1943 (Hattori 1943c).³⁷⁶
- *** *Porella obtusata* (Taylor) Trevis., Mem. Reale Ist. Lombardo Sci. (Ser. 3), C. Sci. Mat. 4 (13): 407, 1877 (Trevisan 1877). Bas.: *Madotheca obtusata* Taylor, London J. Bot. 5: 380, 1846 (Taylor 1846b).
- ** *Porella obtusata* var. *macroloba* (Steph.) S.Hatt. et M.X.Zhang, J. Jap. Bot. 60 (11): 325, 1985 (Hattori and Zhang 1985). Bas.: *Madotheca macroloba* Steph., Sp. Hepat. (Stephani) 4: 292, 1910 (Stephani 1910b).
- ** *Porella obtusiloba* S.Hatt., J. Hattori Bot. Lab. 33: 69, 1970 (Hattori 1970).
- ** *Porella perrottetiana* (Mont.) Trevis., Mem. Reale Ist. Lombardo Sci. (Ser. 3), C. Sci. Mat. 4 (13): 408, 1877 (Trevisan 1877). Bas.: *Madotheca perrottetiana* Mont., Ann. Sci. Nat. Bot. (sér. 2) 18: 15, 1842 (Montagne 1842b).
- ** *Porella perrottetiana* var. *angustifolia* Pócs, J. Hattori Bot. Lab. 31: 75, 1968 (Pócs 1968).
- ** *Porella perrottetiana* var. *ciliatodentata* (P.C.Chen et P.C.Wu) S.Hatt., J. Hattori Bot. Lab. 30: 144, 1967 (Hattori 1967). Bas.: *Porella ciliatodentata* P.C.Chen et P.C.Wu, Obs. fl. Hwangs.: 8, 1965 (Chen and Wu 1965).
- ** *Porella perrottetiana* var. *triciliata* (Steph.) Pócs, J. Hattori Bot. Lab. 31: 75, 1968 (Pócs 1968). Bas.: *Madotheca triciliata* Steph., Sp. Hepat. (Stephani) 4: 308, 1910 (Stephani 1910b).
- *** *Porella pinnata* L., Sp. Pl. 1: 1106, 1753 (Linnaeus 1753).
- ** *Porella planifolia* J.S.Lou, Coll. Pap. Quing-Zang Huang-Den 1: 277, 1983 (Lou and Wang 1983).
- *** *Porella platyphylla* (L.) Pfeiff., Fl. Niederhessen 2: 234, 1855 (Pfeiffer 1855). Bas.: *Jungermannia platyphylla* L., Sp. Pl. 1: 1134, 1753 (Linnaeus 1753).

³⁷⁵ *Porella maxima* was accepted by So (2002a), but it was treated as conspecific with *Porella viridissima* in Hattori (1976f, 1986d). This synonymy is doubtful and further study is necessary to clarify the status.

³⁷⁶ *Porella oblongifolia* is closely related to *Porella densifolia* (Hentschel et al. 2007b).

- *** *Porella platyphylloidea* (Schwein.) Lindb., Morgonbladet (Helsinki) 1876 (287, 10 Dec.): 1, 1876 (Lindberg 1876c). Bas.: *Jungermannia platyphylloidea* Schwein., Spec. Fl. Amer. Crypt.: 9, 1821 (Schweinitz 1821).
- ** *Porella plicata* J.S.Lou, Acta Phytotax. Sin. 18 (1): 119, 1980 (Lou and Wu 1980).
- ** *Porella plumosa* (Mitt.) Parihar, Univ. Allahabad Stud., Bot. 1961-2: 17, 1962 (Parihar 1962). Bas.: *Madotheca plumosa* Mitt., J. Proc. Linn. Soc., Bot. 5 (18): 108, 1860 [1861] (Mitten 1860c).
- ** *Porella prolixa* (Gottsche) E.W.Jones, Trans. Brit. Bryol. Soc. 4 (3): 460, 1963 (Jones 1963). Bas.: *Madotheca prolixa* Gottsche, Sp. Hepat. (Stephani) 4: 260, 1910 (Stephani 1910b).
- ** *Porella pulcherrima* Herzog et S.Hatt., Bull. Natl. Sci. Mus. Tokyo, B 12 (1): 34, 1986 (Hattori 1986a).
- *** *Porella reflexa* (Lehm. et Lindenb.) Trevis., Mem. Reale Ist. Lombardo Sci. (Ser. 3), C. Sci. Mat. 4 (13): 408, 1877 (Trevisan 1877). Bas.: *Jungermannia reflexa* Lehm. et Lindenb., Nov. Stirp. Pug. 5: 5, 1833 (Lehmann 1833).
- ** *Porella revoluta* (Lehm. et Lindenb.) Trevis., Mem. Reale Ist. Lombardo Sci. (Ser. 3), C. Sci. Mat. 4 (13): 407, 1877 (Trevisan 1877). Bas.: *Jungermannia revoluta* Lehm. et Lindenb., Nov. Stirp. Pug. 4: 18, 1832 (Lehmann 1832).
- ** *Porella revoluta* var. *propinqua* (C.Massal.) S.Hatt., J. Hattori Bot. Lab. 30: 148, 1967 (Hattori 1967). Bas.: *Madotheca propinqua* C.Massal., Hepat. Shen-si: 27, 1897 (Massalongo 1897).
- ** *Porella roellii* Steph., Bot. Centralbl. 45: 203, 1891 (Röll 1891).
- *** *Porella saccata* M.L.So, New Zealand J. Bot. 43 (1): 302, 2005 (So 2005b).
- ** *Porella sichuanensis* S.Hatt. et K.C.Chang, Bull. Bot. Res., Harbin 8 (2): 43, 1988 (Chang 1988).
- ** *Porella spinulosa* (Steph.) S.Hatt., J. Hattori Bot. Lab. 33: 74, 1970 (Hattori 1970). Bas.: *Madotheca spinulosa* Steph., Sp. Hepat. (Stephani) 6: 529, 1924 (Stephani 1924).
- *** *Porella squamulifera* (Taylor) Trevis., Mem. Reale Ist. Lombardo Sci. (Ser. 3), C. Sci. Mat. 4 (13): 407, 1877 (Trevisan 1877). Bas.: *Madotheca squamulifera* Taylor, London J. Bot. 5: 378, 1846 (Taylor 1846b).
- ** *Porella stephaniana* (C.Massal.) S.Hatt., J. Hattori Bot. Lab. 5: 81, 1951 (Hattori 1951b). Bas.: *Madotheca stephaniana* C.Massal., Hepat. Shen-si: 23, 1897 (Massalongo 1897).³⁷⁷
- ** *Porella subdentata* (Mitt.) Steph., Hedwigia 30 (5): 203, 1891 (Stephani 1891a). Bas.: *Madotheca subdentata* Mitt., J. Proc. Linn. Soc., Bot. 7 (27): 167, 1863 (Mitten 1863).
- ** *Porella subdentata* var. *camerunensis* E.W.Jones, Trans. Brit. Bryol. Soc. 4 (3): 456, 1963 (Jones 1963).
- ** *Porella subobtusata* (Steph.) S.Hatt., J. Jap. Bot. 20: 111, 1944 (Hattori 1944c). Bas.: *Madotheca subobtusata* Steph., Sp. Hepat. (Stephani) 4: 311, 1910 (Stephani 1910b).
- ** *Porella subparaphyllina* J.S.Lou, Acta Phytotax. Sin. 25 (6): 483, 1987 (Lou 1987).

³⁷⁷ *Porella stephaniana* is closely related to *Porella densifolia* (Hentschel et al. 2007b).

- *** *Porella subsquarrosa* (Nees et Mont.) Trevis., Mem. Reale Ist. Lombardo Sci. (Ser. 3), C. Sci. Mat. 4 (13): 407, 1877 (Trevisan 1877). Bas.: *Lejeunea subsquarrosa* Nees et Mont., Ann. Sci. Nat. Bot. (sér. 2) 5: 57, 1836 (Nees and Montagne 1836).
- *** *Porella swailsii* Grolle, J. Bryol. 10 (3): 270, 1979 (Grolle 1979b). *Nom. nov. pro Madotheca apiculata* Herzog, Feddes Repert. Spec. Nov. Regni Veg. 57 (1/2): 197, 1955 (Herzog 1955).
- *** *Porella swartziana* (F.Weber) Trevis., Mem. Reale Ist. Lombardo Sci. (Ser. 3), C. Sci. Mat. 4 (13): 407, 1877 (Trevisan 1877). Bas.: *Jungermannia swartziana* F.Weber, Hist. Musc. Hepat. Prodr.: 18, 1815 (Weber 1815).
- ** *Porella triquetra* (Steph.) E.W.Jones, Trans. Brit. Bryol. Soc. 4 (3): 454, 1963 (Jones 1963). Bas.: *Madotheca triquetra* Steph., Bot. Jahrb. Syst. 20 (3): 321, 1895 (Stephani 1895a).
- ** *Porella truncata* J.S.Lou, Acta Phytotax. Sin. 18 (1): 119, 1980 (Lou and Wu 1980).
- ** *Porella ulophylla* (Steph.) S.Hatt., Bull. Tokyo Sci. Mus. 11: 92, 1944 (Hattori 1944d). Bas.: *Madotheca ulophylla* Steph., Bull. Herb. Boissier 5 (2): 97, 1897 (Stephani 1897b).
- ** *Porella undatorevoluta* J.S.Lou, Acta Phytotax. Sin. 25 (6): 485, 1987 (Lou 1987).
- ** *Porella urceolata* S.Hatt., J. Hattori Bot. Lab. 33: 66, 1970 (Hattori 1970).
- ** *Porella urogea* (C.Massal.) S.Hatt., J. Hattori Bot. Lab. 32: 349, 1969 (Hattori 1969). Bas.: *Madotheca urogea* C.Massal., Hepat. Shen-si: 28, 1897 (Massalongo 1897).
- ** *Porella vallis-gratiae* (Gottsche) E.W.Jones, Trans. Brit. Bryol. Soc. 4 (3): 450, 1963 (Jones 1963). Bas.: *Madotheca vallis-gratiae* Gottsche, Sp. Hepat. (Stephani) 4: 261, 1910 (Stephani 1910b).
- ** *Porella variabilis* (Kashyap et R.S.Chopra) Parihar, Univ. Allahabad Stud., Bot. 1961-2: 17, 1962 (Parihar 1962). Bas.: *Madotheca variabilis* Kashyap et R.S.Chopra, Liverworts W. Himal. 2: 33, 1932 (Kashyap and Chopra 1932).
- ** *Porella vernicosa* Lindb., Acta Soc. Sci. Fenn. 10: 223, 1872 [1873] (Lindberg 1872b).
- ** *Porella viridissima* (Mitt.) Grolle, J. Hattori Bot. Lab. 36: 83, 1972 [1973] (Grolle and Schultze-Motel 1972). Bas.: *Madotheca viridissima* Mitt., Fl. vit.: 411, 1871 [1873] (Mitten 1871).
- ** *Porella wataugensis* (Sull.) Underw. ex M.Howe, Bull. Torrey Bot. Club 24 (11): 519, 1897 (Howe 1897b). Bas.: *Madotheca wataugensis* Sull., Musc. Hepat. U.S.: 700, 1856 (Sullivant 1856).

Radulineae R.M.Schust.

*** Radulaceae Müll.Frib.

by M.A.M. Renner

The treatment of Radulaceae follows Devos et al. (2011). Taxonomic and nomenclatural notes can also be found in Renner et al. (2013b, 2014).

- *** *Radula Dumort.*, Commentat. Bot. (Dumortier): 112, 1822 (Dumortier 1822) nom. conserv.
- *** subg. *Amentuloradula* Devos, M.A.M.Renner, Gradst., A.J.Shaw et Vanderp., Taxon 60 (6): 1630, 2011 (Devos et al. 2011).
- *** *Radula amentulosa* Mitt., Bonplandia 9 (24): 367, 1861 (Mitten 1861).
- *** *Radula aneurismalis* (Hook.f. et Taylor) Gottsche, Lindenb. et Nees, Syn. Hepat. 2: 262, 1845 (Gottsche et al. 1845a). Bas.: *Jungermannia aneurismalis* Hook.f. et Taylor, London J. Bot. 4: 86, 1845 (Hooker and Taylor 1845).
- ** *Radula ceylanica* K.Yamada, J. Jap. Bot. 50 (12): 373, 1975 (Yamada 1975b).
- *** *Radula fissifolia* Steph., Sp. Hepat. (Stephani) 6: 507, 1924 (Stephani 1924).
- *** *Radula formosa* (C.F.W.Meissn. ex Spreng.) Nees, Syn. Hepat. 2: 258, 1845 (Gottsche et al. 1845a). Bas.: *Jungermannia formosa* C.F.W.Meissn. ex Spreng. Syst. Veg. (ed. 16) [Sprengel] 4 (2): 325, 1827 (Sprengel 1827b).
- *** *Radula helix* (Hook.f. et Taylor) Gottsche, Lindenb. et Nees, Syn. Hepat. 2: 260, 1845 (Gottsche et al. 1845a). Bas.: *Jungermannia helix* Hook.f. et Taylor, London J. Bot. 3: 475, 1844 (Hooker and Taylor 1844b).
- *** *Radula hicksiae* K.Yamada, Cryptog. Bryol. Lichénol. 5 (1/2): 191, 1984 (Yamada 1984a).
- *** *Radula iwatsukii* K.Yamada, J. Hattori Bot. Lab. 45: 275, 1979 (Yamada 1979b).
- ** *Radula morobeana* K.Yamada et Piippo, Ann. Bot. Fenn. 26 (4): 358, 1989 (Yamada and Piippo 1989).
- ** *Radula multiamentula* E.A.Hodgs., Rec. Domin. Mus. 4 (11): 122, 1962 (Hodgson 1962a).
- *** *Radula ornata* E.A.Br. et Pócs, Telopea 9 (3): 436, 2001 (Brown and Pócs 2001).
- *** *Radula physoloba* Mont., Ann. Sci. Nat. Bot. (sér. 2) 19: 255, 1843 (Montagne 1843).
- *** *Radula pseudoscripta* M.A.M.Renner, New Zealand J. Bot. 44 (3): 340, 2006 (Renner 2006).
- ** *Radula queenslandica* K.Yamada, J. Hattori Bot. Lab. 62: 192, 1987 (Yamada 1987).
- *** *Radula scariosa* Mitt., Bonplandia 9 (24): 367, 1861 (Mitten 1861).
- *** *Radula splendida* M.A.M.Renner et Devos, Nova Hedwigia 90 (1/2): 113, 2010 (Renner et al. 2010a).
- * *Radula squarrosa* K.Yamada, J. Jap. Bot. 65 (1): 1, 1990 (Yamada 1990).³⁷⁸
- *** *Radula thiersiae* K.Yamada, J. Hattori Bot. Lab. 62: 198, 1987 (Yamada 1987).
- *** *Radula uvifera* (Hook.f. et Taylor) Gottsche, Lindenb. et Nees, Syn. Hepat. 2: 258, 1845 (Gottsche et al. 1845a). Bas.: *Jungermannia uvifera* Hook.f. et Taylor, London J. Bot. 3: 292 [392], 1844 (Hooker and Taylor 1844a).
- * *Radula vagans* Steph., Kungl. Svenska Vetensk.-Akad. Handl. (n.ser.) 46 (9): 85, 1911 (Stephani 1911b).
- ** *Radula verrucosa* K.Yamada, J. Hattori Bot. Lab. 45: 277, 1979 (Yamada 1979b).

378 *Radula squarrosa* is probably conspecific with *Radula morobeana*.

- *** **subg. *Cladoradula* Spruce**, Trans. & Proc. Bot. Soc. Edinburgh 15: 315, 1885 (Spruce 1885).
- ** *Radula auriculata* Steph., Bull. Herb. Boissier 5 (2): 105, 1897 (Stephani 1897b).
- * *Radula bipinnata* Mitt., J. Proc. Linn. Soc., Bot. 7 (27): 166, 1863 (Mitten 1863).³⁷⁹
- *** *Radula boryana* (F.Weber) Nees ex Mont., Ann. Sci. Nat. Bot. (sér. 2) 18: 13, 1842 (Montagne 1842b). Bas.: *Jungermannia boryana* F.Weber, Hist. Musc. Hepat. Prodr.: 58, 1815 (Weber 1815).
- *** *Radula campanigera* Mont., London J. Bot. 3: 634, 1844 (Montagne 1844a).
- *** *Radula campanigera* subsp. *obiensis* (S.Hatt.) K.Yamada, J. Hattori Bot. Lab. 45: 309, 1979 (Yamada 1979b). Bas.: *Radula obiensis* S.Hatt., Bull. Tokyo Sci. Mus. 11: 83, 1944 (Hattori 1944d).
- ** *Radula chinensis* Steph., Nuovo Giorn. Bot. Ital. (n.ser.) 13 (4): 355, 1906 (Levier 1906).
- *** *Radula gottscheana* Taylor, London J. Bot. 5: 374, 1846 (Taylor 1846b).
- *** *Radula perrottetii* Gottsche, Hedwigia 23 (10): 154, 1884 (Stephani 1884a).
- ** *Radula tenax* Lindb., Acta Soc. Sci. Fenn. 10: 492, 1875 (Lindberg 1875).
- *** **subg. *Dactyloradula* Devos, M.A.M.Renner, Gradst., A.J.Shaw et Vanderp.**, Taxon 60 (6): 1630, 2011 (Devos et al. 2011).
- *** *Radula brunnea* Steph., Sp. Hepat. (Stephani) 4: 232, 1910 (Stephani 1910b).
- *** **subg. *Metaradula* R.M.Schust.**, Phytologia 56 (2): 69, 1984 (Schuster 1984).
- ** *Radula acuminata* Steph., Sp. Hepat. (Stephani) 4: 230, 1910 (Stephani 1910b).³⁸⁰
- ** *Radula aguirrei* R.M.Schust., Phytotaxa 202 (1): 70, 2015 (Söderström et al. 2015c). Based on: *Radula aguirrei* R.M.Schust., J. Hattori Bot. Lab. 70: 56, 1991 (Schuster 1991a), *nom. inval.*
- ** *Radula anisotoma* M.A.M.Renner, PhytoKeys 27: 30, 2013 (Renner et al. 2013a).
- *** *Radula assamica* Steph., Hedwigia 23 (10): 151, 1884 (Stephani 1884a).
- *** *Radula australiana* K.Yamada, J. Hattori Bot. Lab. 51: 323, 1982 (Yamada 1982a).
- *** *Radula buccinifera* (Hook.f. et Taylor) Gottsche, Lindenb. et Nees, Syn. Hepat. 2: 261, 1845 (Gottsche et al. 1845a). Bas.: *Jungermannia buccinifera* Hook.f. et Taylor, London J. Bot. 3: 580, 1844 (Hooker and Taylor 1844c).
- *** *Radula demissa* M.A.M.Renner, PhytoKeys 27: 53, 2013 (Renner et al. 2013a).
- ** *Radula evansii* Castle, Ann. Bryol. 11: 37, 1938 (Castle 1938).
- ** *Radula flaccida* Lindenb. et Gottsche, Syn. Hepat. 5: 726, 1847 (Gottsche et al. 1847).
- ** *Radula flaccida* var. *brachycalyx* Spruce, Trans. & Proc. Bot. Soc. Edinburgh 15: 321, 1885 (Spruce 1885).
- *** *Radula forficata* M.A.M.Renner, Austral. Syst. Bot. 26 (4): 307, 2013 (Renner et al. 2013c).
- ** *Radula grevilleana* Taylor, Ann. Mag. Nat. Hist. 20 (135): 380, 1847 (Taylor 1847a).

379 *Radula bipinnata* is distinct from *Radula boryana* according to molecular evidence (Devos et al. 2011).

380 *Radula acuminata* may be conspecific with *Radula tjibodensis*.

- *** *Radula imposita* M.A.M.Renner, PhytoKeys 27: 65, 2013 (Renner et al. 2013a).
- ** *Radula jovetiana* K.Yamada, Cryptog. Bryol. Lichénol. 5 (1/2): 193, 1984 (Yamada 1984a).
- ** *Radula kilgourii* M.A.M.Renner, Austral. Syst. Bot. 26 (4): 313, 2013 (Renner et al. 2013c).
- ** *Radula loriana* Castle, J. Hattori Bot. Lab. 21: 6, 1959 (Castle 1959).
- *** *Radula mammosa* Spruce, Mem. Torrey Bot. Club 1 (3): 127, 1890 (Spruce 1890).
- *** *Radula mittenii* Steph., Hedwigia 23 (10): 148, 1884 (Stephani 1884a).
- *** *Radula myriopoda* M.A.M.Renner, Austral. Syst. Bot. 26 (4): 323, 2013 (Renner et al. 2013c).
- *** *Radula notabilis* M.A.M.Renner, PhytoKeys 27: 77, 2013 (Renner et al. 2013a).
- ** *Radula nymannii* Steph., Sp. Hepat. (Stephani) 4: 229, 1910 (Stephani 1910b).
- ** *Radula protensa* Lindenb., Bot. Zeitung (Berlin) 6 (25): 462, 1848 (Meissner 1848).
- ** *Radula protensa* var. *erectilobula* Schiffn., Nova Acta Acad. Caes. Leop.-Carol. German. Nat. Cur. 60 (2): 247, 1893 (Schiffner 1893a).
- ** *Radula pseudoflaccida* E.W.Jones, J. Bryol. 9 (4): 501, 1977 [1978] (Jones 1977).
- ** *Radula psychosis* M.A.M.Renner, Austral. Syst. Bot. 26 (4): 328, 2013 (Renner et al. 2013c).
- *** *Radula ratkowskiana* K.Yamada, J. Jap. Bot. 59 (3): 94, 1984 (Yamada 1984b).
- *** *Radula robinsonii* Steph., Sp. Hepat. (Stephani) 4: 214, 1910 (Stephani 1910b).
- ** *Radula stenocalyx* Mont., Ann. Sci. Nat. Bot. (sér. 4) 3 (5): 315, 1855 (Montagne 1855).
- *** *Radula strangulata* Hook.f. et Taylor, London J. Bot. 5: 377, 1846 (Taylor 1846b).
- * *Radula tjobodensis* K.I.Goebel, Ann. Jard. Bot. Buitenzorg 7 (1): 53, 1888 (Goebel 1888).³⁸¹
- *** *Radula ventricosa* Steph., Sp. Hepat. (Stephani) 4: 187, 1910 (Stephani 1910b).
- *** *Radula yanoella* R.M.Schust., Phytologia 56 (2): 72, 1984 (Schuster 1984).
- *** **subg. *Odontoradula*** K.Yamada, J. Hattori Bot. Lab. 45: 209, 1979 (Yamada 1979b).
- ** *Radula acuta* Mitt., Fl. vit.: 410, 1871 [1873] (Mitten 1871).
- ** *Radula allisonii* Castle, Rev. Bryol. Lichénol. 31 (3/4): 148, 1962 [1963] (Castle 1962).
- ** *Radula amoena* Herzog, Mitt. Inst. Allg. Bot. Hamburg 7 (3): 192, 1931 (Herzog 1931a).
- ** *Radula anceps* Sande Lac., Ned. Kruidk. Arch. 3: 419, 1854 [1855] (Sande Lacoste 1854).
- * *Radula crenulata* Schiffn., Leberm., Forschungs. Gazelle 4 (4): 21, 1890 (Schiffner 1890).³⁸²
- *** *Radula cuspidata* Steph., Sp. Hepat. (Stephani) 4: 156, 1910 (Stephani 1910b).
- *** *Radula decora* Gottsche, Hedwigia 23 (10): 145, 1884 (Stephani 1884a).

381 *Radula tjobodensis* is a doubtful taxon. The type specimen has not been found.

382 *Radula crenulata* is conspecific with *Radula acuta* in So (2006) and possibly conspecific with *Radula apiculata* in Yamada and Piippo (1989), but differs morphologically from both and needs to be further studied.

- ** *Radula emarginata* K.Yamada et Piippo, Ann. Bot. Fenn. 26 (4): 352, 1989 (Yamada and Piippo 1989).
- ** *Radula kojana* Steph., Bull. Herb. Boissier 5 (2): 105, 1897 (Stephani 1897b).
- *** *Radula lacerata* Steph., Rev. Bryol. 35 (2): 33, 1908 (Stephani 1908l).
- *** *Radula novae-hollandiae* Hampe, Nov. Stirp. Pug. 7: 24, 1838 (Lehmann 1838).
- *** *Radula ocellata* K.Yamada, J. Hattori Bot. Lab. 45: 209, 1979 (Yamada 1979b).
- *** *Radula plicata* Mitt., Bot. antarct. voy. II (Fl. Nov.-Zel. 2): 154, 1854 (Mitten 1854).
- ** *Radula pugioniformis* M.A.M.Renner, *PhytoKeys* 27: 84, 2013 (Renner et al. 2013a).
- *** *Radula pulchella* Mitt., Hedwigia 23 (10): 149, 1884 (Stephani 1884a).
- *** *Radula retroflexa* Taylor, London J. Bot. 5: 378, 1846 (Taylor 1846b).
- *** *Radula tasmanica* Steph., Sp. Hepat. (Stephani) 4: 212, 1910 (Stephani 1910b).
- *** *Radula weymouthiana* Steph., Sp. Hepat. (Stephani) 4: 190, 1910 (Stephani 1910b).
- *** **subg. *Radula***
- *** *Radula acutiloba* Steph., Hedwigia 28 (4): 271, 1889 (Stephani 1889c).³⁸³
- ** *Radula appressa* Mitt., Philos. Trans. 168: 397, 1879 (Mitten 1879).
- *** *Radula aquilegia* (Hook.f. et Taylor) Gottsche, Lindenb. et Nees, Syn. Hepat. 2: 260, 1845 (Gottsche et al. 1845a). Bas.: *Jungermannia aquilegia* Hook.f. et Taylor, London J. Bot. 3: 291 [391], 1844 (Hooker and Taylor 1844a).
- ** *Radula australis* Austin, Bot. Bull. (Hanover) 1 (7): 32, 1876 (Austin 1876b).
- ** *Radula borneensis* Steph., Sp. Hepat. (Stephani) 4: 209, 1910 (Stephani 1910b).
- ** *Radula caduca* K.Yamada, J. Hattori Bot. Lab. 45: 225, 1979 (Yamada 1979b).
- *** *Radula carringtonii* J.B.Jack, Flora 64 (25): 385, 1881 (Jack 1881).
- *** *Radula complanata* (L.) Dumort., Syll. Jungerm. Europ.: 38, 1831 (Dumortier 1831). Bas.: *Jungermannia complanata* L., Sp. Pl. 1: 1133, 1753 (Linnaeus 1753).
- ** *Radula constricta* Steph., Sp. Hepat. (Stephani) 6: 506, 1924 (Stephani 1924).
- ** *Radula evelynae* K.Yamada, J. Jap. Bot. 50 (4): 115, 1975 (Yamada 1975a).
- ** *Radula fendleri* Gottsche, Hedwigia 23 (10): 146, 1884 (Stephani 1884a).³⁸⁴
- *** *Radula grandis* Steph., J. Linn. Soc., Bot. 29 (201): 271, 1892 (Stephani 1892b).
- ** *Radula japonica* Gottsche, Hedwigia 23 (10): 152, 1884 (Stephani 1884a).
- ** *Radula javanica* Gottsche, Syn. Hepat. 2: 257, 1845 (Gottsche et al. 1845a).
- *** *Radula jonesii* Bouman, Dirkse et K.Yamada, J. Bryol. 15 (1): 161, 1988 (Bouman et al. 1988).
- *** *Radula lindenbergiana* Gottsche ex C.Hartm., Handb. Skand. fl. (ed.9): 98, 1864 (Hartman 1864).
- ** *Radula madagascariensis* Gottsche, Abh. Naturwiss. Vereins Bremen 7: 349, 1882 (Gottsche 1882).
- ** *Radula marojezica* E.W.Jones, J. Bryol. 17 (2): 307, 1992 (Jones 1992).

383 *Radula acutiloba* is tentatively placed in subg. *Radula*. The specimen labelled *Radula acutiloba* in Devos et al. (2011) was misidentified and should be *Radula australiana*.

384 *Radula fendleri* may be conspecific with *Radula madagascariensis*.

- * *Radula multiflora* Gottsche ex Schiffn., Leberm., Forschungsr. Gazelle 4 (4): 20, 1890 (Schiffner 1890).³⁸⁵
- ** *Radula novoguineensis* K.Yamada et Piippo, Ann. Bot. Fenn. 26 (4): 360, 1989 (Yamada and Piippo 1989).
- ** *Radula obconica* Sull., Manual (Gray): 688, 1848 (Gray 1848).
- ** *Radula obtusiloba* Steph., Bull. Herb. Boissier 5 (2): 105, 1897 (Stephani 1897b).
- ** *Radula obtusiloba* subsp. *polyclada* (A.Evans) S.Hatt., J. Hattori Bot. Lab. 29: 275, 1966 (Hattori 1966d). Bas.: *Radula polyclada* A.Evans, Bull. Torrey Bot. Club 41 (12): 607, 1914 [1915] (Evans 1914a).
- * *Radula oceania* Castle, Rev. Bryol. Lichénol. 33 (3/4): 390, 1965 (Castle 1965).³⁸⁶
- ** *Radula oreopsis* M.A.M.Renner, Telopea 17: 123, 2014 (Renner 2014).
- ** *Radula portoricensis* Steph., Hedwigia 27 (11/12): 298, 1888 (Stephani 1888c).
- *** *Radula prolifera* Arnell, Ark. Bot. 13 (2): 12, 1913 (Arnell 1913).
- *** *Radula quadrata* Gottsche, Syn. Hepat. 2: 255, 1845 (Gottsche et al. 1845a).
- *** *Radula reflexa* Nees et Mont., Ann. Sci. Nat. Bot. (sér. 2) 19: 255, 1843 (Montagne 1843).
- ** *Radula sharpii* K.Yamada, J. Jap. Bot. 60 (9): 260, 1985 (Yamada 1985a).
- ** *Radula sumatrana* Steph., Sp. Hepat. (Stephani) 4: 204, 1910 (Stephani 1910b).
- ** *Radula tokiensis* Steph., Hedwigia 23 (10): 150, 1884 (Stephani 1884a).
- *** *Radula van-zantenii* K.Yamada, J. Hattori Bot. Lab. 45: 260, 1979 (Yamada 1979b).
- ** *Radula varilobula* Castle, J. Hattori Bot. Lab. 21: 19, 1959 (Castle 1959).
- *** *Radula wichurae* Steph., Sp. Hepat. (Stephani) 4: 168, 1910 (Stephani 1910b).
- *** **subg. *Volutoradula* Devos, M.A.M.Renner, Gradst., A.J.Shaw et Vanderp.,** Taxon 60 (6): 1629, 2011 (Devos et al. 2011).
- ** *Radula ankefnensis* Gottsche, Hedwigia 23 (10): 152, 1884 (Stephani 1884a).
- ** *Radula antilleana* Castle, J. Hattori Bot. Lab. 21: 48, 1959 (Castle 1959).
- ** *Radula comorensis* Steph., Hedwigia 23 (9): 132, 1884 (Stephani 1884c).
- ** *Radula cubensis* K.Yamada, J. Hattori Bot. Lab. 54: 241, 1983 (Yamada 1983).
- ** *Radula diversifolia* Steph., Sp. Hepat. (Stephani) 4: 212, 1910 (Stephani 1910b).
- *** *Radula eggersii* K.Yamada, J. Hattori Bot. Lab. 82: 339, 1997 (Yamada 1997).
- ** *Radula episcia* Spruce, Trans. & Proc. Bot. Soc. Edinburgh 15: 318, 1885 (Spruce 1885).
- ** *Radula floridana* Castle, Rev. Bryol. Lichénol. 36 (1/2): 1, 1968 [1969] (Castle 1968).
- ** *Radula fulvifolia* (Hook.f. et Taylor) Gottsche, Lindenb. et Nees, Syn. Hepat. 2: 261, 1845 (Gottsche et al. 1845a). Bas.: *Jungermannia fulvifolia* Hook.f. et Taylor, London J. Bot. 4: 85, 1845 (Hooker and Taylor 1845).
- *** *Radula hastata* Steph., Sp. Hepat. (Stephani) 4: 163, 1910 (Stephani 1910b).
- * *Radula holstiana* Steph., Bot. Jahrb. Syst. 20 (3): 320, 1895 (Stephani 1895a).

385 *Radula multiflora* is similar to, and may be conspecific with *Radula reflexa*, but it was accepted by Renner and de Lange (2009).

386 *Radula oceania* was considered conspecific with *Radula javanica* by So (2006), but molecular data does not support it (Renner 2014).

- *** *Radula holtii* Spruce, J. Bot. 25: 209, 1887 (Spruce 1887b).
- ** *Radula husnotii* Castle, J. Hattori Bot. Lab. 21: 45, 1959 (Castle 1959).
- ** *Radula inflexa* Gottsche, Hedwigia 23 (10): 148, 1884 (Stephani 1884a).
- ** *Radula kegelii* Gottsche ex Steph., Hedwigia 23 (10): 152, 1884 (Stephani 1884a).
- ** *Radula macroloba* Steph., Bull. Soc. Roy. Bot. Belgique 31: 121, 1892 (Stephani 1892c).
- ** *Radula mazarunensis* K.Yamada, Trop. Bryol. 1: 38, 1989 (Gradstein and Florschütz-de Waard 1989).
- ** *Radula mexicana* Lindenb. et Gottsche, Mexik. Leverm.: 150, 1863 (Gottsche 1863).
- ** *Radula microloba* Gottsche, Syn. Hepat. 2: 259, 1845 (Gottsche et al. 1845a).
- ** *Radula neotropica* Castle, J. Hattori Bot. Lab. 21: 31, 1959 (Castle 1959).
- *** *Radula nudicaulis* Steph., Sp. Hepat. (Stephani) 4: 174, 1910 (Stephani 1910b).
- * *Radula nudicaulis* var. *delicatula* P.Allorge et V.Allorge, Rev. Bryol. Lichénol. 19 (1/2): 106, 1950 (Allorge and Allorge 1950).
- ** *Radula pocsi* K.Yamada, J. Hattori Bot. Lab. 54: 245, 1983 (Yamada 1983).
- ** *Radula recubans* Taylor, London J. Bot. 5: 376, 1846 (Taylor 1846b).
- ** *Radula saccatiloba* Steph., Hedwigia 23 (8): 129, 1884 (Stephani 1884b).
- ** *Radula schaefer-verwimpii* K.Yamada, J. Jap. Bot. 65 (1): 3, 1990 (Yamada 1990).
- ** *Radula schofieldiana* K.Yamada, J. Hattori Bot. Lab. 82: 337, 1997 (Yamada 1997).
- ** *Radula stipatiflora* Steph., Sp. Hepat. (Stephani) 4: 159, 1910 (Stephani 1910b).
- ** *Radula striata* Mitt., Hedwigia 23 (10): 155, 1884 (Stephani 1884a).
- ** *Radula subinflata* Lindenb. et Gottsche, Syn. Hepat. 5: 724, 1847 (Gottsche et al. 1847).
- ** *Radula sullivantii* Austin, Hepat. bor.-amer.: 22, 1873 (Austin 1873).
- ** *Radula tenera* Mitt., Hedwigia 23 (10): 149, 1884 (Stephani 1884a).
- *** *Radula voluta* Taylor, Syn. Hepat. 2: 255, 1845 (Gottsche et al. 1845a).

Incertae sedis

- *** *Radula acutangula* Steph., Bull. Herb. Boissier 5 (10): 848, 1897 (Stephani 1897c).
- ** *Radula angulata* Steph., Hedwigia 23 (8): 114, 1884 (Stephani 1884b).
- ** *Radula bogotensis* Steph., Hedwigia 23 (8): 115, 1884 (Stephani 1884b).
- *** *Radula bolanderi* Gottsche, Hedwigia 23 (10): 145, 1884 (Stephani 1884a).
- ** *Radula boninensis* Furuki et K.Yamada, J. Jap. Bot. 61 (10): 312, 1986 (Furuki and Yamada 1986).
- ** *Radula brasiliica* K.Yamada, J. Hattori Bot. Lab. 74: 35, 1993 (Yamada 1993).
- ** *Radula caespitosa* Steph., Hedwigia 27 (3/4): 107, 1888 (Stephani 1888d).
- ** *Radula campanulata* Lindenb. et Gottsche, Syn. Hepat. 2: 256, 1845 (Gottsche et al. 1845a).
- ** *Radula castlei* Grolle, Bryologist 73 (4): 662, 1970 (Grolle 1970a).
- *** *Radula cavifolia* Hampe ex Gottsche, Lindenb. et Nees, Syn. Hepat. 2: 259, 1845 (Gottsche et al. 1845a).
- ** *Radula cochabambaensis* K.Yamada, J. Hattori Bot. Lab. 74: 37, 1993 (Yamada 1993).
- ** *Radula conferta* Lindenb. et Gottsche, Syn. Hepat. 5: 729, 1847 (Gottsche et al. 1847).
- *** *Radula cordata* Mitt., Fl. vit.: 410, 1871 [1873] (Mitten 1871).

- ** *Radula costaricensis* Gottsche, J. Bot. 15: 226, 1877 (Polakowski 1877).
- *** *Radula curvilobula* M.L.So, J. Hattori Bot. Lab. 98: 176, 2005 (So 2005a).
- * *Radula decurrens* Mitt., Fl. vit.: 410, 1871 [1873] (Mitten 1871).³⁸⁷
- ** *Radula densifolia* Castle, Rev. Bryol. Lichénol. 33 (3/4): 385, 1965 (Castle 1965).
- ** *Radula diaphana* K.I.Goebel, Organogr. Pfl., ed. 2, 2 (1): 677, 1915 (Goebel 1915).
- ** *Radula dolabrata* K.Yamada, J. Jap. Bot. 60 (9): 257, 1985 (Yamada 1985a).
- ** *Radula elliottii* Castle, J. Hattori Bot. Lab. 21: 12, 1959 (Castle 1959).
- ** *Radula falcata* Steph., Hedwigia 23 (8): 115, 1884 (Stephani 1884b).
- ** *Radula fauriana* Steph., Sp. Hepat. (Stephani) 4: 207, 1910 (Stephani 1910b).
- ** *Radula fernandezana* Steph., Kungl. Svenska Vetensk.-Akad. Handl. (n.ser.) 46 (9): 84, 1911 (Stephani 1911b).
- ** *Radula flavifolia* (Hook.f. et Taylor) Gottsche, Lindenb. et Nees, Syn. Hepat. 2: 259, 1845 (Gottsche et al. 1845a). Bas.: *Jungermannia flavifolia* Hook.f. et Taylor, London J. Bot. 3: 476, 1844 (Hooker and Taylor 1844b).
- ** *Radula fujitae* Furuki, Bryol. Res. 9 (5): 143, 2007 (Furuki 2007).
- ** *Radula galapagona* Steph., Sp. Hepat. (Stephani) 4: 176, 1910 (Stephani 1910b).
- ** *Radula gedena* Gottsche, Hedwigia 23 (10): 146, 1884 (Stephani 1884a).
- ** *Radula gracilis* Mitt., Hedwigia 23 (10): 147, 1884 (Stephani 1884a).
- ** *Radula gradsteinii* K.Yamada, Trop. Bryol. 1: 37, 1989 (Gradstein and Florschütz-de Waard 1989).
- ** *Radula grandifolia* Steph., Sp. Hepat. (Stephani) 4: 184, 1910 (Stephani 1910b).
- ** *Radula grollei* K.Yamada et Piippo, Ann. Bot. Fenn. 26 (4): 379, 1989 (Yamada and Piippo 1989).
- ** *Radula guyanensis* K.Yamada, Trop. Bryol. 1: 38, 1989 (Gradstein and Florschütz-de Waard 1989).
- ** *Radula hattorii* K.Yamada, J. Jap. Bot. 60 (9): 259, 1985 (Yamada 1985a).
- *** *Radula hawaiiica* M.L.So, J. Hattori Bot. Lab. 98: 177, 2005 (So 2005a).
- * *Radula hedingeri* K.I.Goebel, Ann. Jard. Bot. Buitenzorg 7 (1): 51, 1888 (Goebel 1888).
- *** *Radula inouei* K.Yamada, J. Hattori Bot. Lab. 45: 262, 1979 (Yamada 1979b).
- *** *Radula involvens* Spruce, Trans. & Proc. Bot. Soc. Edinburgh 15: 325, 1885 (Spruce 1885).
- *** *Radula iwatsukiana* K.Yamada, J. Hattori Bot. Lab. 58: 114, 1985 (Yamada 1985b).
- *** *Radula jamaicensis* Pearson, Ann. Bryol. 4: 103, 1931 (Pearson 1931b).
- ** *Radula jamesonii* Taylor, London J. Bot. 5: 375, 1846 (Taylor 1846b).
- ** *Radula kinabaluensis* K.Yamada, Misc. Bryol. Lichenol. 6 (6): 97, 1973 (Yamada 1973b).
- *** *Radula kitagawae* K.Yamada, J. Hattori Bot. Lab. 58: 116, 1985 (Yamada 1985b).
- ** *Radula koponenii* K.Yamada et Piippo, Ann. Bot. Fenn. 26 (4): 364, 1989 (Yamada and Piippo 1989).
- ** *Radula kurzii* Steph., Hedwigia 23 (10): 153, 1884 (Stephani 1884a).
- ** *Radula laxiramea* Steph., Sp. Hepat. (Stephani) 4: 178, 1910 (Stephani 1910b).

387 *Radula decurrens* may be conspecific with *Radula reflexa*.

- ** *Radula leiboldii* Steph., *Hedwigia* 23 (8): 116, 1884 (Stephani 1884b).
- ** *Radula lewisii* K.Yamada, *J. Hattori Bot. Lab.* 74: 39, 1993 (Yamada 1993).
- *** *Radula ligula* Steph., *Sp. Hepat. (Stephani)* 4: 228, 1910 (Stephani 1910b).
- *** *Radula lingulata* Gottsche, *Syn. Hepat.* 2: 260, 1845 (Gottsche et al. 1845a).
- ** *Radula longiloba* K.Yamada, *J. Hattori Bot. Lab.* 54: 243, 1983 (Yamada 1983).
- * *Radula longispica* Steph., *Sp. Hepat. (Stephani)* 4: 183, 1910 (Stephani 1910b).³⁸⁸
- *** *Radula marginata* Gottsche, *Lindenb. et Nees, Syn. Hepat.* 2: 261, 1845 (Gottsche et al. 1845a). *Nom. nov. pro Jungermannia marginata* Hook.f. et Taylor, *London J. Bot.* 3: 566, 1844 (Hooker and Taylor 1844a), *nom. illeg.*
- *** *Radula mauiensis* M.L.So, *J. Hattori Bot. Lab.* 98: 178, 2005 (So 2005a).
- ** *Radula microlobula* Castle, *J. Hattori Bot. Lab.* 21: 35, 1959 (Castle 1959).
- ** *Radula minutilobula* K.Yamada et Piippo, *Ann. Bot. Fenn.* 26 (4): 377, 1989 (Yamada and Piippo 1989).
- ** *Radula mizutanii* K.Yamada, *J. Jap. Bot.* 48 (5): 134, 1973 (Yamada 1973a).
- *** *Radula nigra* Pearson, *J. Linn. Soc., Bot.* 46 (305): 31, 1922 (Pearson 1922b).
- ** *Radula nilgiriensis* Udar et D.Kumar, *J. Indian Bot. Soc.* 61: 177, 1982 (Udar and Kumar 1982b).
- ** *Radula norrisii* K.Yamada et Piippo, *Ann. Bot. Fenn.* 26 (4): 374, 1989 (Yamada and Piippo 1989).
- ** *Radula novivrieseana* K.Yamada, *J. Hattori Bot. Lab.* 51: 326, 1982 (Yamada 1982a).
- *** *Radula novocaledonica* Hürl. et K.Yamada, *J. Jap. Bot.* 54 (8): 238, 1979 (Hürli-mann and Yamada 1979).
- *** *Radula novocaledoniensis* K.Yamada, *J. Hattori Bot. Lab.* 58: 120, 1985 (Yamada 1985b).
- ** *Radula obovata* Castle, *J. Hattori Bot. Lab.* 21: 16, 1959 (Castle 1959).
- ** *Radula obscura* Mitt., *J. Proc. Linn. Soc., Bot.* 5 (18): 107, 1860 [1861] (Mitten 1860c).
- ** *Radula okamurana* Steph., *Sp. Hepat. (Stephani)* 4: 209, 1910 (Stephani 1910b).
- ** *Radula onraedtii* K.Yamada, *Misc. Bryol. Lichenol.* 8 (6): 113, 1979 (Yamada 1979a).
- ** *Radula opaciuscula* (Spruce) Castle, *J. Hattori Bot. Lab.* 21: 22, 1959 (Castle 1959). Bas.: *Radula episcia* var. *opaciuscula* Spruce, *Trans. & Proc. Bot. Soc. Edinburgh* 15: 319, 1885 (Spruce 1885).
- ** *Radula ovalilobula* K.Yamada, *J. Hattori Bot. Lab.* 45: 257, 1979 (Yamada 1979b).
- ** *Radula oyamensis* Steph., *Hedwigia* 23 (10): 149, 1884 (Stephani 1884a).
- * *Radula paganii* Castle, *J. Hattori Bot. Lab.* 21: 33, 1959 (Castle 1959).³⁸⁹
- *** *Radula pallens* (Sw.) Nees ex Mont., *Voy. Amér. Mérid.* 7 (2): 71, 1839 (Montagne 1839a). Bas.: *Jungermannia pallens* Sw., *Prodr. (Swartz)*: 143, 1788 (Swartz 1788).
- *** *Radula pandei* Udar et Dh.Kumar, *Lindbergia* 9 (2): 133, 1983 (Udar and Kumar 1983b).

388 *Radula longispica* may be conspecific with *Radula javanica*.

389 *Radula paganii* is doubtfully distinct from *Radula neotropica*.

- ** *Radula patens* K.Yamada, Cryptog. Bryol. Lichénol. 5 (1/2): 197, 1984 (Yamada 1984a).
- ** *Radula peruviana* K.Yamada, Beih. Nova Hedwigia 88: 79, 1987 (Schultze-Motel and Menzel 1987).
- ** *Radula philippinensis* K.Yamada, J. Hattori Bot. Lab. 45: 299, 1979 (Yamada 1979b).
- * *Radula pinnulata* Mitt., Fl. vit.: 410, 1871 [1873] (Mitten 1871).³⁹⁰
- ** *Radula pseudostachya* Spruce, Trans. & Proc. Bot. Soc. Edinburgh 15: 319, 1885 (Spruce 1885).
- ** *Radula punctata* Steph., Hedwigia 23 (8): 135, 1884 (Stephani 1884b).
- ** *Radula pusilla* Spruce, Trans. & Proc. Bot. Soc. Edinburgh 15: 320, 1885 (Spruce 1885).
- *** *Radula rhombiloba* Steph., Sp. Hepat. (Stephani) 4: 204, 1910 (Stephani 1910b).
- * *Radula rupicola* K.Yamada, J. Hattori Bot. Lab. 58: 124, 1985 (Yamada 1985b).³⁹¹
- ** *Radula santacruziana* K.Yamada et Gradst., Trop. Bryol. 4: 67, 1991 (Yamada and Gradstein 1991).
- ** *Radula silvestris* Gottsche, Abh. Naturwiss. Vereins Bremen 7: 349, 1882 (Gottsche 1882).
- ** *Radula sinskeana* K.Yamada, J. Hattori Bot. Lab. 74: 41, 1993 (Yamada 1993).
- ** *Radula sinuata* Gottsche ex Steph., Sp. Hepat. (Stephani) 4: 161, 1910 (Stephani 1910b).
- * *Radula socorana* Gerola, Lav. Bot. Ist. Bot. Univ. Padova 12: 475, 1947 (Gerola 1947).
- ** *Radula sonsonensis* Steph., Sp. Hepat. (Stephani) 4: 201, 1910 (Stephani 1910b).
- ** *Radula stellatogemmipara* C.Gao et Y.H.Wu, Nova Hedwigia 80 (1/2): 239, 2005 (Gao and Wu 2005).
- ** *Radula subsimplex* Steph., Hedwigia 23 (8): 130, 1884 (Stephani 1884b).
- ** *Radula subsquarrosa* S.W.Arnell, Ark. Bot. (n.ser.) 4 (1): 15, 1957 (Arnell 1957b).
- ** *Radula tabularis* Steph., Hedwigia 23 (9): 131, 1884 (Stephani 1884c).
- ** *Radula taylorii* Steph., Hedwigia 23 (9): 133, 1884 (Stephani 1884c).
- ** *Radula tectiloba* Steph., Hedwigia 27 (11/12): 298, 1888 (Stephani 1888c).
- ** *Radula tenuis* K.Yamada, J. Hattori Bot. Lab. 54: 247, 1983 (Yamada 1983).
- ** *Radula underwoodii* Castle, J. Hattori Bot. Lab. 21: 37, 1959 (Castle 1959).
- ** *Radula venezuelensis* K.Yamada, Misc. Bryol. Lichenol. 9 (6): 122, 1982 (Yamada 1982b).
- *** *Radula vieillardii* Gottsche, Hedwigia 23 (10): 150, 1884 (Stephani 1884a).
- ** *Radula visianica* C.Massal., Ann. Bot. (Rome) 1 (4): 298, 1904 (Massalongo 1904).
- ** *Radula vrieseana* Sande Lac., Ann. Mus. Bot. Lugduno-Batavi 1: 305, 1864 (Sande Lacoste 1864).
- ** *Radula wrightii* Castle, J. Hattori Bot. Lab. 21: 15, 1959 (Castle 1959).

390 *Radula pinnulata* was accepted by Yamada (1979b) and, indirectly through comparison with *Radula norrisii*, by Yamada and Piippo (1989). It is conspecific with *Radula javanica* according to So (2006).

391 *Radula rupicola* may be conspecific with *Radula vieillardii* (So 2006).

- ** *Radula xalapensis* Nees et Mont., Ann. Sci. Nat. Bot. (sér. 2) 5: 56, 1836 (Nees and Montagne 1836).

Ptilidiales Schljakov

** Herzogianthaceae Stotler et Crand.-Stotl.

- ** *Herzogianthus* R.M.Schust., J. Hattori Bot. Lab. 23: 71, 1960 [1961] (Schuster 1960b).
 * *Herzogianthus sanguineus* R.M.Schust., Phytologia 56 (7): 457, 1985 (Schuster 1985c).³⁹²
 *** *Herzogianthus vaginatus* (Herzog) R.M.Schust., J. Hattori Bot. Lab. 23: 71, 1960 [1961] (Schuster 1960b). Bas.: *Blepharostoma vaginatum* Herzog, Trans. & Proc. Roy. Soc. New Zealand 65 (3): 355, 1936 (Herzog 1936b).

** Neotrichocoleaceae Inoue

- ** *Neotrichocolea* S.Hatt., J. Hattori Bot. Lab. 2: 9, 1947 [1948] (Hattori 1947b).
 ** *Neotrichocolea bisetii* (Mitt.) S.Hatt., J. Hattori Bot. Lab. 2: 10, 1947 [1948] (Hattori 1947b). Bas.: *Mastigophora bisetii* Mitt., Trans. Linn. Soc. London, Bot. 3 (3): 200, 1891 (Mitten 1891).
 ** *Trichocoleopsis* S.Okamura, Bot. Mag. (Tokyo) 25 (293): 159, 1911 (Okamura 1911).
 ** *Trichocoleopsis sacculata* (Mitt.) S.Okamura, Bot. Mag. (Tokyo) 25 (293): 159, 1911 (Okamura 1911). Bas.: *Blepharozia sacculata* Mitt., Trans. Linn. Soc. London, Bot. 3 (3): 200, 1891 (Mitten 1891).

*** Ptilidiaceae H.Klinggr.

by L. Söderström

Ptilidiaceae was recently studied molecularly by Kreier et al. (2010) showing the occurrence of a possibly undescribed cryptic species from the Himalayas.

- *** *Ptilidium* Nees, Naturgesch. Eur. Leberm. 1: 95, 1833 (Nees 1833c).
 *** *Ptilidium californicum* (Austin) Pearson, List. Canad. Hepat.: 7, 1890 (Pearson 1890). Bas.: *Lepidozia californica* Austin, Bull. Torrey Bot. Club 6 (3): 19, 1875 (Austin 1875b).

³⁹² *Herzogianthus sanguineus* is possibly conspecific with *Herzogianthus vaginatus*.

- *** *Ptilidium ciliare* (L.) Hampe, Prod. fl. hercyn.: 76, 1836 (Hampe 1836). Bas.: *Jungermannia ciliaris* L., Sp. Pl. 1: 1134, 1753 (Linnaeus 1753).
- *** *Ptilidium pulcherrimum* (Weber) Vain., Meddel. Soc. Fauna Fl. Fenn. 3: 88, 1878 (Vainio 1878). Bas.: *Jungermannia pulcherrima* Weber, Spic. Fl. Goett.: 150, 1778 (Weber 1778).

Metzgeriidae Barthol.-Began

Metzgeriales Chalaud

*** Aneuraceae H.Klinggr.

by M. Nebel

A molecular phylogeny of Aneuraceae was recently published by Preussing et al. (2010). Their study revealed Verdoorniaceae to be nested within Aneuraceae and *Cryptothallus* within *Aneura* (see also Wickett and Goffinet 2008). Nomenclatural and taxonomic notes can also be found in Söderström et al. (2010a), Söderström et al. (2012a) and Nebel et al. (2013).

- *** ***Aneura Dumort.***, Commentat. Bot. (Dumortier): 115, 1822 (Dumortier 1822).³⁹³
- * *Aneura amboinensis* Steph., Bull. Herb. Boissier 7 (9): 678 (219), 1899 (Stephani 1899e).
- * *Aneura augustae* Steph., Sp. Hepat. (Stephani) 6: 430, 1923 (Stephani 1923).
- * *Aneura biflora* Colenso, Trans. & Proc. New Zealand Inst. 17: 262, 1885 (Colenso 1885).
- *** *Aneura blasioides* (Horik.) Furuki, J. Hattori Bot. Lab. 70: 311, 1991 (Furuki 1991). Bas.: *Riccardia blasioides* Horik., J. Sci. Hiroshima Univ., Ser. B, Div. 2, Bot. 1: 197, 1933 (Horikawa 1933).
- ** *Aneura brasiliensis* (Ångstr.) Steph., Hedwigia 32 (3): 137, 1893 (Stephani 1893b). Bas.: *Pseudoneura brasiliensis* Ångstr., Öfvers. Kongl. Vetensk.-Akad. Förh. 33 (7): 91, 1876 [1877] (Ångström 1876).
- * *Aneura brevissima* Steph., Sp. Hepat. (Stephani) 6: 21, 1917 (Stephani 1917a).
- ** *Aneura cerebrata* Hewson, Proc. Linn. Soc. New South Wales (ser. 2) 94 (2): 185, 1970 (Hewson 1970b).
- *** *Aneura crateriformis* Furuki et D.G.Long, J. Bryol. 18 (2): 281, 1994 (Furuki and Long 1994).

³⁹³ *Aneura* includes also *Acrostolia* and *Pseudoneura*, but a few taxa have never been transferred nor synonymized. They are listed in the section "Names in genera not currently accepted" below. The types of *Aneura augustae*, *Aneura hunsteinii*, *Aneura latemultifida*, *Aneura ledermannii*, *Aneura subledermannii* and *Aneura subtenerima* were destroyed in B and their identity is doubtful (Grolle and Piippo 1984).

- * *Aneura crinita* C.Massal., Bull. Soc. Bot. Ital. 1917 (8/9): 81, 1917 (Massalongo 1917).³⁹⁴
- ** *Aneura crumii* L.Söderstr., A.Hagborg et von Konrat, Phytotaxa 65: 43, 2012 (Söderström et al. 2012a). *Nom. nov. pro Cryptothallus hirsutus* H.A.Crum, Bryologist 99 (4): 438, 1996 (Crum and Bruce 1996).
- * *Aneura densa* Steph., Sp. Hepat. (Stephani) 6: 24, 1917 (Stephani 1917a).
- * *Aneura denticulata* Mitt. ex Thurn, Timehri 5: 222, 1886 (Thurn 1886).³⁹⁵
- ** *Aneura eachamensis* Hewson, Proc. Linn. Soc. New South Wales (ser. 2) 94 (2): 184, 1970 (Hewson 1970b).
- ** *Aneura erronea* Steph., Sp. Hepat. (Stephani) 6: 20, 1917 (Stephani 1917a).
- ** *Aneura eskucheii* Hässel, Veröff. Geobot. Inst. ETH Stiftung Rübel Zürich 91: 294, 1986 (Hässel 1986b).
- ** *Aneura gemmifera* Furuki, J. Hattori Bot. Lab. 70: 309, 1991 (Furuki 1991).
- * *Aneura giangena* Hewson, Proc. Linn. Soc. New South Wales (ser. 2) 94 (2): 190, 1970 (Hewson 1970b).
- ** *Aneura gibbsiana* Steph., Sp. Hepat. (Stephani) 6: 28, 1917 (Stephani 1917a).
- ** *Aneura glaucescens* Steph., Sp. Hepat. (Stephani) 6: 28, 1917 (Stephani 1917a).
- * *Aneura goebeliana* Steph., Sp. Hepat. (Stephani) 6: 28, 1917 (Stephani 1917a).
- *** *Aneura hirsuta* Furuki, J. Hattori Bot. Lab. 70: 317, 1991 (Furuki 1991).
- * *Aneura hunsteinii* Steph., Sp. Hepat. (Stephani) 6: 431, 1923 (Stephani 1923).
- ** *Aneura imbricata* Colenso, Trans. & Proc. New Zealand Inst. 16: 359, 1884 (Colenso 1884).
- ** *Aneura kaguaensis* Hewson, Proc. Linn. Soc. New South Wales (ser. 2) 94 (2): 190, 1970 (Hewson 1970b).
- ** *Aneura keniae* Gola, Mem. Reale Accad. Sci. Torino (ser. 2) 65 (1): 3, 1916 (Gola 1916).
- * *Aneura latemultifida* Steph., Sp. Hepat. (Stephani) 6: 431, 1923 (Stephani 1923).
- ** *Aneura latissima* Spruce, Trans. & Proc. Bot. Soc. Edinburgh 15: 544, 1885 (Spruce 1885).
- * *Aneura ledermannii* Steph., Sp. Hepat. (Stephani) 6: 431, 1923 (Stephani 1923).
- ** *Aneura macrostachya* Spruce, Trans. & Proc. Bot. Soc. Edinburgh 15: 550, 1885 (Spruce 1885).
- *** *Aneura marianensis* Furuki, Bryologist 97 (1): 87, 1994 (Furuki 1994b).
- *** *Aneura maxima* (Schiffn.) Steph., Bull. Herb. Boissier 7 (10): 760 (270), 1899 (Stephani 1899f). Bas.: *Riccardia maxima* Schiffn., Denkschr. Kaiserl. Akad. Wiss., Math.-Naturwiss. Kl. 67: 177, 1898 (Schiffner 1898a).
- *** *Aneura mirabilis* (Malmb.) Wickett et Goffinet, Bot. J. Linn. Soc. 156 (1): 11, 2008 (Wickett and Goffinet 2008). Bas.: *Cryptothallus mirabilis* Malmb., Ann. Bryol. 6: 122, 1933 (von Malmborg 1933).
- ** *Aneura novaecaledoniae* R.M.Schust., Phytologia 56 (7): 451, 1985 (Schuster 1985c).

394 *Aneura crinita* (type from Europe) has neither been recognized in any recent European treatment nor synonymized.

395 *Aneura denticulata* is possibly conspecific with *Riccardia ciliolata* (Hässel 2006b).

- *** *Aneura novaguineensis* Hewson, Proc. Linn. Soc. New South Wales (ser. 2) 94 (2): 189, 1970 (Hewson 1970b).
- * *Aneura nymannii* Steph., Sp. Hepat. (Stephani) 6: 35, 1917 (Stephani 1917a).
- ** *Aneura pellucida* Colenso, Trans. & Proc. New Zealand Inst. 18: 252, 1886 (Colenso 1886b).
- *** *Aneura pinguis* (L.) Dumort., Syll. Jungerm. Europ.: 86, 1831 (Dumortier 1831). Bas.: *Jungermannia pinguis* L., Sp. Pl. 1: 1136, 1753 (Linnaeus 1753).
- ** *Aneura polyantha* Colenso, Trans. & Proc. New Zealand Inst. 17: 262, 1885 (Colenso 1885).
- ** *Aneura punctata* Colenso, Trans. & Proc. New Zealand Inst. 18: 254, 1886 (Colenso 1886b).
- ** *Aneura rodwayi* Hewson, Proc. Linn. Soc. New South Wales (ser. 2) 94 (2): 188, 1970 (Hewson 1970b).
- * *Aneura roraimensis* Steph., Trans. Linn. Soc. London, Bot. 6 (1): 94, 1901 (Stephani 1901e).
- ** *Aneura rotangicola* Steph., Sp. Hepat. (Stephani) 6: 432, 1923 (Stephani 1923).
- * *Aneura serrulata* Gottsche ex Steph., Sp. Hepat. (Stephani) 6: 42, 1917 (Stephani 1917a).
- ** *Aneura sharpii* Inoue et N.G.Mill., Bull. Natl. Sci. Mus. Tokyo, B 11 (3): 96, 1985 (Inoue and Miller 1985).³⁹⁶
- * *Aneura singalangana* (Schiffn.) Steph., Bull. Herb. Boissier 7 (10): 751 (261), 1899 (Stephani 1899f). Bas.: *Riccardia singalangana* Schiffn., Denkschr. Kaiserl. Akad. Wiss., Math.-Naturwiss. Kl. 67: 174, 1898 (Schiffner 1898a).³⁹⁷
- ** *Aneura subcanaliculata* R.M.Schust., J. Hattori Bot. Lab. 67: 60, 1989 (Schuster 1989).
- * *Aneura subledermannii* Steph., Sp. Hepat. (Stephani) 6: 432, 1923 (Stephani 1923).
- * *Aneura subtenerima* Steph., Sp. Hepat. (Stephani) 6: 432, 1923 (Stephani 1923).
- * *Aneura vincentina* Steph., Sp. Hepat. (Stephani) 6: 45, 1917 (Stephani 1917a).
- ** ***Lobatiriccardia* (Mizut. et S.Hatt.) Furuki**, J. Hattori Bot. Lab. 70: 319, 1991 (Furuki 1991). Bas.: *Riccardia* subg. *Lobatiriccardia* Mizut. et S.Hatt., J. Hattori Bot. Lab. 18: 38, 1957 (Mizutani and Hattori 1957).
- *** *Lobatiriccardia alterniloba* (Hook.f. et Taylor) Furuki, J. Hattori Bot. Lab. 70: 319, 1991 (Furuki 1991). Bas.: *Jungermannia alterniloba* Hook.f. et Taylor, London J. Bot. 3: 572, 1844 (Hooker and Taylor 1844d).
- ** *Lobatiriccardia alterniloba* var. *gigantea* (Steph.) Nebel, Phytotaxa 81 (1): 10, 2013 (Nebel et al. 2013). Bas.: *Aneura gigantea* Steph., J. & Proc. Roy. Soc. New South Wales 48 (1/2): 95, 1914 (Stephani and Watts 1914).
- ** *Lobatiriccardia alterniloba* var. *robusta* (Rodway) Nebel, Phytotaxa 81 (1): 10, 2013 (Nebel et al. 2013). Bas.: *Aneura alterniloba* f. *robusta* Rodway, Tasm. Bryoph.: 12, 1917 (Rodway 1917b).

396 *Aneura sharpii* is conspecific with *Aneura maxima* in Schuster (1992b), but the taxa are not the same (D.G. Long, pers. comm.).

397 *Aneura singalangana* may be a form of *Riccardia subexalata* (Stephani 1899f).

- *** *Lobatiriccardia athertonensis* (Hewson) Furuki, J. Hattori Bot. Lab. 70: 319, 1991 (Furuki 1991). Bas.: *Aneura athertonensis* Hewson, Proc. Linn. Soc. New South Wales (ser. 2) 94 (2): 188, 1970 (Hewson 1970b).
- *** *Lobatiriccardia coronopus* (De Not.) Furuki, J. Hattori Bot. Lab. 100: 90, 2006 (Furuki 2006a). Bas.: *Aneura coronopus* De Not., Hedwigia 32 (1): 19, 1893 (Stephani 1893a).
- ** *Lobatiriccardia coronopus* subsp. *australis* (R.M.Schust.) Nebel, Preussing, Schäf.-Verw. et D.Quandt, Taxon 59 (5): 1434, 2010 (Preussing et al. 2010). Bas.: *Aneura lobata* subsp. *australis* R.M.Schust., Phytologia 56 (7): 451, 1985 (Schuster 1985c).
- ** *Lobatiriccardia oberwinkleri* Nebel, Preussing, Schäf.-Verw. et D.Quandt, Taxon 59 (5): 1435, 2010 (Preussing et al. 2010).
- ** *Lobatiriccardia subaquatica* (R.M.Schust.) Nebel, Phytotaxa 81 (1): 10, 2013 (Nebel et al. 2013). Bas.: *Aneura subaquatica* R.M.Schust., Phytologia 56 (7): 450, 1985 (Schuster 1985c).
- ** *Lobatiriccardia verdoornioides* Nebel, Preussing, Schäf.-Verw. et D.Quandt, Taxon 59 (5): 1437, 2010 (Preussing et al. 2010).
- *** *Lobatiriccardia yakusimensis* (S.Hatt.) Furuki, J. Hattori Bot. Lab. 70: 321, 1991 (Furuki 1991). Bas.: *Riccardia lobata* var. *yakusimensis* S.Hatt., J. Hattori Bot. Lab. 6: 10, 1951 [1952] (Hattori 1951a).
- *** *Lobatiriccardia yunnanensis* Furuki et D.G.Long, J. Bryol. 29 (3): 161, 2007 (Furuki and Long 2007).
- *** ***Riccardia* Gray**, Nat. Arr. Brit. Pl. 1: 679, 1821 (Gray 1821) nom. conserv.³⁹⁸
- ** *Riccardia pectinata* var. *fasciculata* (Steph.) Hürl., Bauhinia 5 (4): 208, 1976 (Hürlimann 1976). Bas.: *Aneura fasciculata* Steph., Sp. Hepat. (Stephani) 6: 25, 1917 (Stephani 1917a).
- ** **subg. *Arceoneura* Hässel**, Revista Mus. Argent. Ci. Nat., Bernardino Rivadavia Inst. Nac. Invest. Ci. Nat. Bot. 4 (1): 204, 1972 (Hässel 1972a).
- ** *Riccardia marionensis* R.M.Schust., J. Hattori Bot. Lab. 67: 65, 1989 (Schuster 1989).
- *** *Riccardia prehensilis* (Hook.f. et Taylor) C.Massal., Nuovo Giorn. Bot. Ital. 17 (3): 255, 1885 (Massalongo 1885). Bas.: *Jungermannia prehensilis* Hook.f. et Taylor, London J. Bot. 3: 480, 1844 (Hooker and Taylor 1844b).
- ** **subg. *Corioneura* Furuki**, J. Hattori Bot. Lab. 70: 394, 1991 (Furuki 1991).
- ** *Riccardia argentolimbata* Hewson et Grolle, J. Hattori Bot. Lab. 29: 70, 1966 (Grolle 1966i).
- *** *Riccardia hattorii* Furuki, J. Hattori Bot. Lab. 75: 257, 1994 (Furuki 1994a).
- ** **subg. *Hyaloneura* R.M.Schust.**, Phytologia 56 (7): 452, 1985 (Schuster 1985c).

398 *Riccardia* includes *Acrostolia*, but a few taxa have neither been transferred nor synonymized. They are listed under “Names in genera not currently accepted” below.

- * *Riccardia albomarginata* (Steph.) Schiffn., Consp. Hepat. Arch. Ind.: 53, 1898 (Schiffner 1898b). Bas.: *Aneura albomarginata* Steph., Hedwigia 32 (1): 18, 1893 (Stephani 1893a).³⁹⁹
- ** *Riccardia canaliculata* (Nees) Kuntze, Revis. Gen. Pl. 2: 838, 1891 (Kuntze 1891). Bas.: *Jungermannia canaliculata* Nees, Enum. Pl. Crypt. Javae: 10, 1830 (Nees 1830).
- ** *Riccardia pindensis* Hewson, Proc. Linn. Soc. New South Wales (ser. 2) 95 (1): 87, 1970 (Hewson 1970a).
- ** **subg. *Lophoneura* Hässel**, Revista Mus. Argent. Ci. Nat., Bernardino Rivadavia Inst. Nac. Invest. Ci. Nat. Bot. 4 (1): 218, 1972 (Hässel 1972a).
- ** *Riccardia fuegiensis* C.Massal., Nuovo Giorn. Bot. Ital. 17 (3): 255, 1885 (Massalongo 1885).
- ** **subg. *Neoneura* Furuki**, J. Hattori Bot. Lab. 70: 385, 1991 (Furuki 1991).
- *** *Riccardia spongiosa* Furuki, J. Hattori Bot. Lab. 70: 385, 1991 (Furuki 1991).
- ** **subg. *Phycaneura* R.M.Schust.**, J. Hattori Bot. Lab. 26: 294, 1963 (Schuster 1963b).
- ** *Riccardia aequicellularis* (Steph.) Hewson, Proc. Linn. Soc. New South Wales (ser. 2) 95 (1): 79, 1970 (Hewson 1970a). Bas.: *Aneura aequicellularis* Steph., J. & Proc. Roy. Soc. New South Wales 48 (1/2): 95, 1914 (Stephani and Watts 1914).
- ** *Riccardia asperulata* R.M.Schust., J. Hattori Bot. Lab. 27: 209, 1964 (Schuster 1964a).
- ** **subg. *Riccardia***
- *** *Riccardia aeruginosa* Furuki, J. Hattori Bot. Lab. 70: 345, 1991 (Furuki 1991).
- *** *Riccardia arcuata* Furuki, J. Hattori Bot. Lab. 70: 361, 1991 (Furuki 1991).
- *** *Riccardia chamedryfolia* (With.) Grolle, Trans. Brit. Bryol. Soc. 5 (4): 772, 1969 (Grolle 1969b). Bas.: *Jungermannia chamedryfolia* With., Bot. arr. veg. Gr. Brit. 2: 699, 1776 (Withering 1776).
- *** *Riccardia cochleata* (Hook.f. et Taylor) Kuntze, Revis. Gen. Pl. 2: 838, 1891 (Kuntze 1891). Bas.: *Riccia cochleata* Hook.f. et Taylor, London J. Bot. 4: 96, 1845 (Hooker and Taylor 1845).
- *** *Riccardia eriocaula* (Hook.) C.Massal., Nuovo Giorn. Bot. Ital. 17 (3): 256, 1885 (Massalongo 1885). Bas.: *Jungermannia eriocaula* Hook., Musci Exot. 1: tab. 72, 1818 (Hooker 1818).
- *** *Riccardia flavovirens* Furuki, J. Hattori Bot. Lab. 70: 333, 1991 (Furuki 1991).
- *** *Riccardia fruticosa* (Steph.) Furuki, Nat. Hist. Res. 5 (1): 1, 1998 (Furuki 1998). Bas.: *Aneura fruticosa* Steph., Sp. Hepat. (Stephani) 6: 27, 1917 (Stephani 1917a).
- *** *Riccardia glauca* Furuki, J. Hattori Bot. Lab. 70: 352, 1991 (Furuki 1991).
- ** *Riccardia kodamae* Mizut. et S.Hatt., J. Hattori Bot. Lab. 18: 57, 1957 (Mizutani and Hattori 1957).

399 *Riccardia albomarginata* is possibly conspecific with *Riccardia canaliculata* (Söderström et al. 2010a).

- *** *Riccardia latifrons* (Lindb.) Lindb., Acta Soc. Sci. Fenn. 10: 513, 1875 (Lindberg 1875). Bas.: *Aneura latifrons* Lindb., Bot. Not. 26: 62, 1873 (Anonymous 1873).
- ** *Riccardia latifrons* subsp. *arctica* R.M.Schust. et Damsh., J. Hattori Bot. Lab. 62: 303, 1987 (Schuster 1987d).
- ** *Riccardia latifrons* var. *miyakeana* (Schiffn.) Furuki, J. Hattori Bot. Lab. 70: 375, 1991 (Furuki 1991). Bas.: *Riccardia miyakeana* Schiffn., Österr. Bot. Z. 49 (11): 388, 1899 (Schiffner 1899c).
- ** *Riccardia nagasakiensis* (Steph.) S.Hatt., Bull. Tokyo Sci. Mus. 11: 164, 1944 (Hattori 1944d). Bas.: *Aneura nagasakiensis* Steph., Sp. Hepat. (Stephani) 6: 34, 1917 (Stephani 1917a).
- *** *Riccardia palmata* (Hedw.) Carruth., J. Bot. 3: 302, 1865 (Carruthers 1865). Bas.: *Jungermannia palmata* Hedw., Theoria generat.: 87, 1784 (Hedwig 1784), *nom. conserv.*
- ** *Riccardia planiflora* (Steph.) S.Hatt., Bull. Tokyo Sci. Mus. 11: 164, 1944 (Hattori 1944d). Bas.: *Aneura planiflora* Steph., Sp. Hepat. (Stephani) 6: 38, 1917 (Stephani 1917a).
- ** *Riccardia planiflora* var. *aequatorialis* Furuki, Nat. Hist. Res. 4 (2): 77, 1997 (Furuki 1997).
- ** *Riccardia pseudodendroceros* R.M.Schust., Phytologia 56 (7): 452, 1985 (Schuster 1985c).
- *** *Riccardia pumila* Furuki, J. Hattori Bot. Lab. 70: 361, 1991 (Furuki 1991).
- ** *Riccardia pusilla* Grolle, J. Jap. Bot. 41 (8): 231, 1966 (Grolle 1966d). *Nom. nov. pro Riccardia nana* Mizut. et S.Hatt., J. Hattori Bot. Lab. 18: 53, 1957 (Mizutani and Hattori 1957), *nom. illeg.*
- *** *Riccardia subalpina* Furuki, J. Hattori Bot. Lab. 70: 367, 1991 (Furuki 1991).
- ** *Riccardia tamariscina* (Steph.) Schiffn., Consp. Hepat. Arch. Ind.: 58, 1898 (Schiffner 1898b). Bas.: *Aneura tamariscina* Steph., Hedwigia 32 (1): 27, 1893 (Stephani 1893a).
- *** *Riccardia vitrea* Furuki, J. Hattori Bot. Lab. 70: 327, 1991 (Furuki 1991).
- ** **sect. *Alcicornia* Hässel**, Revista Mus. Argent. Ci. Nat., Bernardino Rivadavia Inst. Nac. Invest. Ci. Nat. Bot. 4 (1): 17, 1972 (Hässel 1972a).
- ** *Riccardia alcicornis* (Hook.f. et Taylor) Trevis., Mem. Reale Ist. Lombardo Sci. (Ser. 3), C. Sci. Mat. 4 (13): 431, 1877 (Trevisan 1877). Bas.: *Jungermannia alcicornis* Hook.f. et Taylor, London J. Bot. 3: 479, 1844 (Hooker and Taylor 1844b).
- ** *Riccardia conimitra* (Steph.) A.Evans, Trans. Connecticut Acad. Arts 25 (2): 156, 1921 (Evans 1921a). Bas.: *Aneura conimitra* Steph., Bull. Herb. Boissier 7 (10): 749 (259), 1899 (Stephani 1899f).
- ** *Riccardia corralensis* (Steph.) A.Evans, Trans. Connecticut Acad. Arts 25 (2): 143, 1921 (Evans 1921a). Bas.: *Aneura corralensis* Steph., Bull. Herb. Boissier 7 (10): 742 (252), 1899 (Stephani 1899f).
- *** *Riccardia furtiva* E.A.Br. et Braggins, J. Hattori Bot. Lab. 66: 35, 1989 (Brown and Braggins 1989).

- ** *Riccardia fuscobrunnea* (Steph.) A.Evans, Trans. Connecticut Acad. Arts 25 (2): 152, 1921 (Evans 1921a). Bas.: *Aneura fuscobrunnea* Steph., Kungl. Svenska Vetensk.-Akad. Handl. (n.ser.) 46 (9): 7, 1911 (Stephani 1911b).
- ** *Riccardia longioleata* Hässel, Revista Mus. Argent. Ci. Nat., Bernardino Rivadavia Inst. Nac. Invest. Ci. Nat. Bot. 4 (1): 30, 1972 (Hässel 1972a).
- *** *Riccardia multicorpora* E.A.Br., J. Hattori Bot. Lab. 66: 40, 1989 (Brown and Braggins 1989).
- * *Riccardia umida* E.A.Br., J. Hattori Bot. Lab. 66: 38, 1989 (Brown and Braggins 1989).

- ** **sect. *Crassantia* Hässel**, Revista Mus. Argent. Ci. Nat., Bernardino Rivadavia Inst. Nac. Invest. Ci. Nat. Bot. 4 (1): 41, 1972 (Hässel 1972a).
- *** *Riccardia aequitexta* (Steph.) E.A.Br., J. Hattori Bot. Lab. 66: 78, 1989 (Brown and Braggins 1989). Bas.: *Aneura aequitexta* Steph., J. Linn. Soc., Bot. 29 (201): 263, 1892 (Stephani 1892b).
- *** *Riccardia alba* (Colenso) E.A.Br., J. Hattori Bot. Lab. 66: 66, 1989 (Brown and Braggins 1989). Bas.: *Aneura alba* Colenso, Trans. & Proc. New Zealand Inst. 16: 357, 1884 (Colenso 1884).
- ** *Riccardia amnicola* Hässel, Revista Mus. Argent. Ci. Nat., Bernardino Rivadavia Inst. Nac. Invest. Ci. Nat. Bot. 4 (1): 92, 1972 (Hässel 1972a).
- ** *Riccardia bipinnatifida* (Colenso) Hewson, Proc. Linn. Soc. New South Wales (ser. 2) 95 (1): 93, 1970 (Hewson 1970a). Bas.: *Aneura bipinnatifida* Colenso, Trans. & Proc. New Zealand Inst. 16: 358, 1884 (Colenso 1884).
- ** *Riccardia calva* (Schiffn.) A.Evans, Trans. Connecticut Acad. Arts 25 (2): 134, 1921 (Evans 1921a). Bas.: *Aneura calva* Schiffn., Leberm., Forschungsgr. Gazelle 4 (4): 42, 1890 (Schiffner 1890).
- *** *Riccardia colensoi* (Steph.) W.Martin, Trans. & Proc. Roy. Soc. New Zealand 78 (4): 499, 1950 (Martin 1950). Bas.: *Aneura colensoi* Steph., J. Linn. Soc., Bot. 29 (201): 264, 1892 (Stephani 1892b).
- *** *Riccardia crassa* (Schwägr.) C.Massal., Nuovo Giorn. Bot. Ital. 17 (3): 254, 1885 (Massalongo 1885). Bas.: *Jungermannia crassa* Schwägr., Hist. Musc. Hepat. Prodr.: 31, 1814 (Schwägrichen 1814).
- ** *Riccardia crassicrispa* (Steph.) A.Evans, Trans. Connecticut Acad. Arts 25 (2): 194, 1921 (Evans 1921a). Bas.: *Aneura crassicrispa* Steph., Kungl. Svenska Vetensk.-Akad. Handl. (n.ser.) 46 (9): 6, 1911 (Stephani 1911b).
- ** *Riccardia diderma* Hässel, Revista Mus. Argent. Ci. Nat., Bernardino Rivadavia Inst. Nac. Invest. Ci. Nat. Bot. 4 (1): 56, 1972 (Hässel 1972a).
- ** *Riccardia diversiflora* A.Evans, Trans. Connecticut Acad. Arts 25 (2): 167, 1921 (Evans 1921a).
- ** *Riccardia diversiflora* subsp. *paucigyna* R.M.Schust., J. Hattori Bot. Lab. 67: 97, 1989 (Schuster 1989).
- ** *Riccardia duriuscula* Hässel, Revista Mus. Argent. Ci. Nat., Bernardino Rivadavia Inst. Nac. Invest. Ci. Nat. Bot. 4 (1): 82, 1972 (Hässel 1972a).

- ** *Riccardia falsifloribunda* Hässel, Revista Mus. Argent. Ci. Nat., Bernardino Rivadavia Inst. Nac. Invest. Ci. Nat. Bot. 4 (1): 119, 1972 (Hässel 1972a).
- ** *Riccardia floribunda* (Steph.) A.Evans, Trans. Connecticut Acad. Arts 25 (2): 182, 1921 (Evans 1921a). Bas.: *Aneura floribunda* Steph., Bull. Herb. Boissier 7 (10): 749 (259), 1899 (Stephani 1899f).
- ** *Riccardia fluvigena* Hässel, Revista Mus. Argent. Ci. Nat., Bernardino Rivadavia Inst. Nac. Invest. Ci. Nat. Bot. 4 (1): 73, 1972 (Hässel 1972a).
- ** *Riccardia georgiensis* (Steph.) Hässel, Lindbergia 1 (1/2): 80, 1971 [1972] (Grolle 1971a). Bas.: *Aneura georgiensis* Steph., Wiss. Ergebn. Schwed. Südpolar-Exped. [1901–1903] 4 (1): 2, 1905 (Stephani 1905e).
- ** *Riccardia georgiensis* subsp. *sympodea* R.M.Schust., J. Hattori Bot. Lab. 67: 83, 1989 (Schuster 1989).
- *** *Riccardia graeffei* (Steph.) Hewson, Proc. Linn. Soc. New South Wales (ser. 2) 95 (1): 118, 1970 (Hewson 1970a). Bas.: *Aneura graeffei* Steph., Hedwigia 32 (1): 21, 1893 (Stephani 1893a).
- *** *Riccardia marginata* (Colenso) Pearson, Univ. Calif. Publ. Bot. 10 (4): 309, 1923 (Pearson 1923). Bas.: *Aneura marginata* Colenso, Trans. & Proc. New Zealand Inst. 18: 253, 1886 (Colenso 1886b).
- *** *Riccardia marginata* var. *pacifica* Furuki, J. Hattori Bot. Lab. 70: 380, 1991 (Furuki 1991).
- ** *Riccardia mycophora* A.Evans, Trans. Connecticut Acad. Arts 25 (2): 175, 1921 (Evans 1921a).
- ** *Riccardia negerii* (Steph.) A.Evans, Trans. Connecticut Acad. Arts 25 (2): 172, 1921 (Evans 1921a). Bas.: *Aneura negerii* Steph., Bull. Herb. Boissier 7 (10): 747 (257), 1899 (Stephani 1899f).
- ** *Riccardia nitida* (Colenso) E.A.Hodgs., Trans. Roy. Soc. New Zealand, Bot. 3 (4): 92, 1965 (Hodgson 1965). Bas.: *Aneura nitida* Colenso, Trans. & Proc. New Zealand Inst. 18: 253, 1886 (Colenso 1886b).
- ** *Riccardia papillosa* (C.Massal. et Steph.) Hässel, Revista Mus. Argent. Ci. Nat., Bernardino Rivadavia Inst. Nac. Invest. Ci. Nat. Bot. 4 (1): 60, 1972 (Hässel 1972a). Bas.: *Aneura papillosa* C.Massal. et Steph., Atti Reale Ist. Veneto Sci. Lett. Arti 87 (2): 241, 1928 (Massalongo 1928).
- ** *Riccardia regularis* (Steph.) Kühnem., Revista Centro Estud. Doct. Ci. Nat. 1: 171, 1937 (Kühnemann 1937). Bas.: *Aneura regularis* Steph., Kungl. Svenska Vetensk.-Akad. Handl. (n.ser.) 46 (9): 9, 1911 (Stephani 1911b).
- ** *Riccardia rivularis* Hässel, Revista Mus. Argent. Ci. Nat., Bernardino Rivadavia Inst. Nac. Invest. Ci. Nat. Bot. 4 (1): 52, 1972 (Hässel 1972a).
- ** *Riccardia saxicola* Hässel, Revista Mus. Argent. Ci. Nat., Bernardino Rivadavia Inst. Nac. Invest. Ci. Nat. Bot. 4 (1): 137, 1972 (Hässel 1972a).
- ** *Riccardia spectabilis* (Steph.) A.Evans, Trans. Connecticut Acad. Arts 25 (2): 140, 1921 (Evans 1921a). Bas.: *Aneura spectabilis* Steph., Bull. Herb. Boissier 7 (10): 746 (256), 1899 (Stephani 1899f).

- ** *Riccardia spegazziniana* C.Massal., Nuovo Giorn. Bot. Ital. 17 (3): 254, 1885 (Massalongo 1885).
- ** *Riccardia tenax* (Steph.) A.Evans, Trans. Connecticut Acad. Arts 25 (2): 186, 1921 (Evans 1921a). Bas.: *Aneura tenax* Steph., Bull. Herb. Boissier 7 (10): 755 (265), 1899 (Stephani 1899f).
- ** *Riccardia tenerrima* (Steph.) A.Evans, Trans. Connecticut Acad. Arts 25 (2): 164, 1921 (Evans 1921a). Bas.: *Aneura tenerrima* Steph., Kungl. Svenska Vetensk.-Akad. Handl. (n.ser.) 46 (9): 9, 1911 (Stephani 1911b).
- ** *Riccardia theliophora* Hässel, Revista Mus. Argent. Ci. Nat., Bernardino Rivadavia Inst. Nac. Invest. Ci. Nat. Bot. 4 (1): 96, 1972 (Hässel 1972a).
- ** **sect. *Pallidevirida* Hässel**, Revista Mus. Argent. Ci. Nat., Bernardino Rivadavia Inst. Nac. Invest. Ci. Nat. Bot. 4 (1): 142, 1972 (Hässel 1972a).
- ** *Riccardia granulata* (Steph.) A.Evans, Trans. Connecticut Acad. Arts 25 (2): 192, 1921 (Evans 1921a). Bas.: *Aneura granulata* Steph., Hedwigia 32 (1): 21, 1893 (Stephani 1893a).
- ** *Riccardia intercellula* E.A.Br., J. Hattori Bot. Lab. 66: 58, 1989 (Brown and Braggins 1989).
- ** *Riccardia opuntiiiformis* S.W.Arnell, Arch. Soc. Zool. Bot. Fenn. "Vanamo" 9: 52, 1954 (Arnell 1954b).
- ** *Riccardia pallidevirens* (Steph.) A.Evans, Trans. Connecticut Acad. Arts 25 (2): 189, 1921 (Evans 1921a). Bas.: *Aneura pallidevirens* Steph., Bull. Herb. Boissier 7 (10): 762 (272), 1899 (Stephani 1899f).
- *** *Riccardia pennata* E.A.Br., J. Hattori Bot. Lab. 66: 53, 1989 (Brown and Braggins 1989).
- *** *Riccardia perspicua* E.A.Br., J. Hattori Bot. Lab. 66: 55, 1989 (Brown and Braggins 1989).
- ** *Riccardia xylophila* Hässel, Revista Mus. Argent. Ci. Nat., Bernardino Rivadavia Inst. Nac. Invest. Ci. Nat. Bot. 4 (1): 156, 1972 (Hässel 1972a).
- ** **sect. *Riccardia***
- *** *Riccardia australis* (Lehm.) Hewson, Proc. Linn. Soc. New South Wales (ser. 2) 95 (1): 110, 1970 (Hewson 1970a). Bas.: *Sarcomitrium australe* Lehm., Nov. Stirp. Pug. 10: 19, 1857 (Lehmann 1857).
- ** *Riccardia autoica* (Steph.) A.Evans, Trans. Connecticut Acad. Arts 25 (2): 159, 1921 (Evans 1921a). Bas.: *Aneura autoica* Steph., Bull. Herb. Boissier 7 (9): 691 (232), 1899 (Stephani 1899e).
- ** *Riccardia breviala* E.A.Br., J. Hattori Bot. Lab. 66: 46, 1989 (Brown and Braggins 1989).
- ** *Riccardia breviramosa* (Steph.) A.Evans, Nat. Hist. Juan Fernandez (Botany) 2 (20): 559, 1930 (Evans 1930a). Bas.: *Aneura breviramosa* Steph., Kungl. Svenska Vetensk.-Akad. Handl. (n.ser.) 46 (9): 6, 1911 (Stephani 1911b).

- ** *Riccardia filicina* (Colenso) E.A.Hodgs., Rec. Domin. Mus. 4 (11): 129, 1962 (Hodgson 1962a). Bas.: *Aneura filicina* Colenso, Trans. & Proc. New Zealand Inst. 16: 358, 1884 (Colenso 1884).
- ** *Riccardia leptostachya* A.Evans, Nat. Hist. Juan Fernandez (Botany) 2 (20): 570, 1930 (Evans 1930a).
- ** *Riccardia lobulata* (Colenso) E.A.Hodgs., Trans. Roy. Soc. New Zealand, Bot. 3 (4): 92, 1965 (Hodgson 1965). Bas.: *Zoopsis lobulata* Colenso, Trans. & Proc. New Zealand Inst. 18: 250, 1886 (Colenso 1886b).
- ** *Riccardia mejlandii* S.W.Arnell, Results Norweg. Sci. Exped. Tristan da Cunha 42: 30, 1958 (Arnell 1958b).
- *** *Riccardia multifida* (L.) Gray, Nat. Arr. Brit. Pl. 1: 684, 1821 (Gray 1821). Bas.: *Jungermannia multifida* L., Sp. Pl. 1: 1136, 1753 (Linnaeus 1753).
- *** *Riccardia multifida* subsp. *decrescens* (Steph.) Furuki, J. Hattori Bot. Lab. 70: 341, 1991 (Furuki 1991). Bas.: *Aneura decrescens* Steph., Bull. Herb. Boissier 7 (9): 686 (227), 1899 (Stephani 1899e).
- ** *Riccardia multifida* subsp. *synoica* R.M.Schust., J. Hattori Bot. Lab. 62: 319, 1987 (Schuster 1987d).
- ** *Riccardia multioleata* Hässel, Revista Mus. Argent. Ci. Nat., Bernardino Rivadavia Inst. Nac. Invest. Ci. Nat. Bot. 4 (1): 195, 1972 (Hässel 1972a).
- *** *Riccardia papulosa* (Steph.) E.A.Br., J. Hattori Bot. Lab. 66: 49, 1989 (Brown and Braggins 1989). Bas.: *Aneura papulosa* Steph., Hedwigia 32 (1): 25, 1893 (Stephani 1893a).
- ** *Riccardia patens* Hässel, Revista Mus. Argent. Ci. Nat., Bernardino Rivadavia Inst. Nac. Invest. Ci. Nat. Bot. 4 (1): 165, 1972 (Hässel 1972a).
- ** *Riccardia polyclada* (Mitt.) Hässel, Bryologist 109 (1): 34, 2006 (Hässel 2006b). Bas.: *Aneura polyclada* Mitt., Trans. Linn. Soc. London, Bot. 2 (13): 297, 1887 (Mitten 1887).
- ** *Riccardia statensis* Hässel, Revista Mus. Argent. Ci. Nat., Bernardino Rivadavia Inst. Nac. Invest. Ci. Nat. Bot. 4 (1): 177, 1972 (Hässel 1972a).
- ** *Riccardia thaxteri* A.Evans, Trans. Connecticut Acad. Arts 25 (2): 126, 1921 (Evans 1921a).
- ** *Riccardia tristaniana* S.W.Arnell, Results Norweg. Sci. Exped. Tristan da Cunha 42: 31, 1958 (Arnell 1958b).
- ** **subg. *Spinella* (Schiffn.) Hässel**, Revista Mus. Argent. Ci. Nat., Bernardino Rivadavia Inst. Nac. Invest. Ci. Nat. Bot. 4 (1): 214, 1972 (Hässel 1972a). Bas.: *Spinella* Schiffn., Leberm., Forschungsr. Gazelle 4 (4): 41, 1890 (Schiffner 1890).
- ** *Riccardia spinulifera* C.Massal., Nuovo Giorn. Bot. Ital. 17 (3): 254, 1885 (Massalongo 1885).
- ** **subg. *Thornoneura* Furuki**, J. Hattori Bot. Lab. 70: 382, 1991 (Furuki 1991).

- * *Riccardia baumannii* Hürl., Bauhinia 5 (4): 203, 1976 (Hürlimann 1976).⁴⁰⁰
- ** *Riccardia deguchii* Furuki et K.T.Yong, Hikobia 16 (3): 285, 2013 (Furuki et al. 2013).
- *** *Riccardia grossitexta* (Steph.) Furuki, J. Hattori Bot. Lab. 70: 382, 1991 (Furuki 1991). Bas.: *Aneura grossitexta* Steph., Sp. Hepat. (Stephani) 6: 29, 1917 (Stephani 1917a).
- ** *Riccardia inconspicua* (Steph.) Reeb et Bardat, Cryptog. Bryol. 35 (1): 61, 2014 (Reeb and Bardat 2014). Bas.: *Aneura inconspicua* Steph., Hedwigia 32 (1): 23, 1893 (Stephani 1893a).
- ** **subg. *Trichoballia* Hässel**, Revista Mus. Argent. Ci. Nat., Bernardino Rivadavia Inst. Nac. Invest. Ci. Nat. Bot. 4 (1): 224, 1972 (Hässel 1972a).
- ** *Riccardia hyalitricha* Hässel, Revista Mus. Argent. Ci. Nat., Bernardino Rivadavia Inst. Nac. Invest. Ci. Nat. Bot. 4 (1): 225, 1972 (Hässel 1972a).
- Incertae sedis***
- ** *Riccardia aberrans* (Steph.) Gradst., J. Hattori Bot. Lab. 45: 129, 1979 (Gradstein and Hekking 1979). Bas.: *Aneura aberrans* Steph., Hedwigia 32 (1): 18, 1893 (Stephani 1893a).
- ** *Riccardia agumana* Hewson, Proc. Linn. Soc. New South Wales (ser. 2) 95 (1): 82, 1970 (Hewson 1970a).
- ** *Riccardia algoides* (Taylor) Meenks, J. Hattori Bot. Lab. 62: 168, 1987 (Meenks 1987). Bas.: *Metzgeria algoides* Taylor, London J. Bot. 5: 410, 1846 (Taylor 1846b).
- *** *Riccardia amazonica* (Spruce) Schiffn. ex Gradst. et Hekking, J. Hattori Bot. Lab. 45: 129, 1979 (Gradstein and Hekking 1979). Bas.: *Aneura amazonica* Spruce, Trans. & Proc. Bot. Soc. Edinburgh 15: 545, 1885 (Spruce 1885).
- *** *Riccardia andina* (Spruce) Herzog, Svensk Bot. Tidskr. 46 (1): 65, 1952 (Herzog 1952e). Bas.: *Aneura andina* Spruce, Trans. & Proc. Bot. Soc. Edinburgh 15: 548, 1885 (Spruce 1885).
- ** *Riccardia angustata* Horik., J. Sci. Hiroshima Univ., Ser. B, Div. 2, Bot. 2: 126, 1934 (Horikawa 1934).
- ** *Riccardia angustealata* (Steph.) Hewson, Proc. Linn. Soc. New South Wales (ser. 2) 95 (1): 111, 1970 (Hewson 1970a). Bas.: *Aneura angustealata* Steph., Sp. Hepat. (Stephani) 6: 20, 1917 (Stephani 1917a).
- ** *Riccardia angustissima* (Steph.) H.A.Mill., Phytologia 47 (4): 323, 1981 (Miller 1981). Bas.: *Aneura angustissima* Steph., Sp. Hepat. (Stephani) 6: 20, 1917 (Stephani 1917a).
- ** *Riccardia aspera* (Steph.) Grolle, J. Hattori Bot. Lab. 30: 117, 1967 (Grolle 1967b). Bas.: *Aneura aspera* Steph., Sp. Hepat. (Stephani) 6: 21, 1917 (Stephani 1917a).

⁴⁰⁰ *Riccardia baumannii* is possibly conspecific with *Riccardia grossitexta* or *Riccardia tenuicostata* (Furuki 1991, Söderström et al. 2010a).

- * *Riccardia baldwinii* (Steph.) H.A.Mill., Ark. Bot. (n.ser.) 5 (2): 527, 1963 (Miller 1963). Bas.: *Aneura baldwinii* Steph., Bull. Herb. Boissier 7 (10): 743 (253), 1899 (Stephani 1899f).⁴⁰¹
- ** *Riccardia barbiflora* (Steph.) Piippo, J. Hattori Bot. Lab. 68: 134, 1990 (Piippo 1990). Bas.: *Aneura barbiflora* Steph., Mém. Soc. Nat. Sci. Nat. Math. Cherbourg 29: 209, 1894 (Stephani 1894b).
- ** *Riccardia bogotensis* (Gottsche) Pagán, Bryologist 42 (1): 6, 1939 (Pagán 1939a). Bas.: *Pseudoneura bogotensis* Gottsche, Ann. Sci. Nat. Bot. (sér. 5) 1: 184, 1864 (Gottsche 1864).
- ** *Riccardia boliviensis* (Steph.) Meenks, J. Hattori Bot. Lab. 62: 170, 1987 (Meenks 1987). Bas.: *Aneura boliviensis* Steph., Biblioth. Bot. 87 (2): 176, 1916 (Stephani 1916a).
- ** *Riccardia bongeriana* Hewson, Proc. Linn. Soc. New South Wales (ser. 2) 95 (1): 101, 1970 (Hewson 1970a).
- ** *Riccardia brunnea* (Steph.) S.Hatt., Bull. Tokyo Sci. Mus. 11: 164, 1944 (Hattori 1944d). Bas.: *Aneura brunnea* Steph., Sp. Hepat. (Stephani) 6: 21, 1917 (Stephani 1917a).
- ** *Riccardia calcarea* (Steph.) Meenks, J. Hattori Bot. Lab. 62: 170, 1987 (Meenks 1987). Bas.: *Aneura calcarea* Steph., Bull. Herb. Boissier 7 (10): 756 (266), 1899 (Stephani 1899f).
- ** *Riccardia capillacea* (Steph.) Meenks et C.De Jong, Cryptog. Bryol. Lichénol. 6 (1): 6, 1985 (Meenks and de Jong 1985). Bas.: *Aneura capillacea* Steph., Biblioth. Bot. 87 (2): 174, 1916 (Stephani 1916a).
- ** *Riccardia capillacea* var. *dentata* Meenks, J. Hattori Bot. Lab. 62: 170, 1987 (Meenks 1987).
- ** *Riccardia cardotii* (Steph.) Pandé et S.C.Srivast., Biol. Mem. 1 (1/2): 131, 1976 (Srivastava and Udar 1976). Bas.: *Aneura cardotii* Steph., Bull. Soc. Roy. Bot. Belgique, Mém. 41 (1): 118, 1904 [1905] (Stephani 1904d).
- ** *Riccardia cataractarum* (Spruce) Schiffn., Österr. Akad. Wiss., Math.-Naturwiss. Kl., Denkschr. 111: 18, 1964 (Schiffner and Arnell 1964). Bas.: *Aneura cataractarum* Spruce, Bull. Soc. Bot. France (Congr. Bot.) 36: cxcv, 1889 [1890] (Spruce 1889).
- *** *Riccardia cervicornis* (Spruce) Herzog ex Gradst. et Hekking, J. Hattori Bot. Lab. 45: 129, 1979 (Gradstein and Hekking 1979). Bas.: *Aneura cervicornis* Spruce, Trans. & Proc. Bot. Soc. Edinburgh 15: 550, 1885 (Spruce 1885).
- ** *Riccardia changbaishanensis* C.Gao, Fl. Hepat. Chin. Boreali-Orient.: 209, 1981 (Gao and Chang 1981).
- ** *Riccardia chinensis* C.Gao, Fl. Hepat. Chin. Boreali-Orient.: 209, 1981 (Gao and Chang 1981).
- ** *Riccardia ciliolata* (Spruce) Horik., J. Sci. Hiroshima Univ., Ser. B, Div. 2, Bot. 1: 198, 1933 (Horikawa 1933). Bas.: *Aneura ciliolata* Spruce, Trans. & Proc. Bot. Soc. Edinburgh 15: 547, 1885 (Spruce 1885).

401 *Riccardia baldwinii* is possibly conspecific with *Riccardia flaccida* (Miller et al. 1983).

- ** *Riccardia columbica* (Steph.) Hässel ex Gradst. et Hekking, J. Hattori Bot. Lab. 45: 130, 1979 (Gradstein and Hekking 1979). Bas.: *Aneura columbica* Steph., Sp. Hepat. (Stephani) 6: 22, 1917 (Stephani 1917a).
- ** *Riccardia comata* (Steph.) H.A.Mill., Phytologia 47 (4): 323, 1981 (Miller 1981). Bas.: *Aneura comata* Steph., Sp. Hepat. (Stephani) 6: 22, 1917 (Stephani 1917a).
- ** *Riccardia compacta* (Steph.) S.W.Arnell, Bot. Not. 105: 141, 1952 (Arnell 1952b). Bas.: *Aneura compacta* Steph., Hedwigia 32 (1): 19, 1893 (Stephani 1893a).
- ** *Riccardia comptonii* (Pearson) H.A.Mill., Phytologia 47 (4): 323, 1981 (Miller 1981). Bas.: *Aneura comptonii* Pearson, J. Linn. Soc., Bot. 46 (305): 17, 1922 (Pearson 1922b).
- ** *Riccardia costata* (Steph.) Hürl., Bauhinia 5 (4): 206, 1976 (Hürlimann 1976). Bas.: *Aneura costata* Steph., Sp. Hepat. (Stephani) 6: 23, 1917 (Stephani 1917a).
- *** *Riccardia crassicaulis* (Steph.) Meenks et C.De Jong, Cryptog. Bryol. Lichénol. 6 (1): 8, 1985 (Meenks and de Jong 1985). Bas.: *Aneura crassicaulis* Steph., Biblioth. Bot. 87 (2): 174, 1916 (Stephani 1916a).
- ** *Riccardia crassiretis* Schiffn., Denkschr. Kaiserl. Akad. Wiss., Math.-Naturwiss. Kl. 67: 173, 1898 (Schiffner 1898a).
- ** *Riccardia crenulata* Schiffn., Denkschr. Kaiserl. Akad. Wiss., Math.-Naturwiss. Kl. 67: 173, 1898 (Schiffner 1898a).
- ** *Riccardia crenuliformis* R.M.Schust., J. Hattori Bot. Lab. 67: 72, 1989 (Schuster 1989).
- * *Riccardia decolyana* Schiffn., J. Indian Bot. Soc. 38 (4): 538, 1959 [1960] (Schiffner et al. 1959).⁴⁰²
- ** *Riccardia densiramea* (Steph.) S.Hatt., Bull. Tokyo Sci. Mus. 11: 164, 1944 (Hattori 1944d). Bas.: *Aneura densiramea* Steph., Sp. Hepat. (Stephani) 6: 24, 1917 (Stephani 1917a).
- ** *Riccardia devexa* Schiffn., Österr. Akad. Wiss., Math.-Naturwiss. Kl., Denkschr. 111: 12, 1964 (Schiffner and Arnell 1964).
- ** *Riccardia diabolina* (Spruce) Pagán, Bryologist 45 (4): 80, 1942 (Pagán 1942b). Bas.: *Aneura diabolina* Spruce, J. Linn. Soc., Bot. 30 (210): 366, 1895 (Gepp 1895b).
- *** *Riccardia digitiloba* (Spruce) Pagán, Bryologist 42 (1): 6, 1939 (Pagán 1939a). Bas.: *Aneura digitiloba* Spruce, Bull. Soc. Bot. France (Congr. Bot.) 36: cci, 1889 [1890] (Spruce 1889).
- ** *Riccardia dilatata* (Spruce) Schäf.-Verw. et Pócs, Cryptog. Bryol. 31 (4): 389, 2010 (Schäfer-Verwimp 2010). Bas.: *Aneura dilatata* Spruce, J. Linn. Soc., Bot. 30 (210): 368, 1895 (Gepp 1895b).
- * *Riccardia diminuta* Schiffn., Denkschr. Kaiserl. Akad. Wiss., Math.-Naturwiss. Kl. 67: 170, 1898 (Schiffner 1898a).⁴⁰³
- * *Riccardia diminuta* var. *thermarum* Schiffn., Denkschr. Kaiserl. Akad. Wiss., Math.-Naturwiss. Kl. 67: 172, 1898 (Schiffner 1898a).

402 *Riccardia decolyana* is possibly conspecific with *Riccardia multifida* (Srivastava and Udar 1976).

403 *Riccardia diminuta* is possibly conspecific with *Riccardia elata* (Söderström et al. 2010a).

- ** *Riccardia distans* (Spruce) Pagán, *Bryologist* 45 (4): 80, 1942 (Pagán 1942b). Bas.: *Aneura distans* Spruce, *J. Linn. Soc., Bot.* 30 (210): 367, 1895 (Gepp 1895b).
- ** *Riccardia elata* (Steph.) Schiffn., *Denkschr. Kaiserl. Akad. Wiss., Math.-Naturwiss. Kl.* 67: 169, 1898 (Schiffner 1898a). Bas.: *Aneura elata* Steph., *Hedwigia* 32 (1): 19, 1893 (Stephani 1893a).
- * *Riccardia elata* var. *flaccida* Schiffn., *Denkschr. Kaiserl. Akad. Wiss., Math.-Naturwiss. Kl.* 67: 170, 1898 (Schiffner 1898a).
- * *Riccardia elata* var. *intercedens* Schiffn., *Denkschr. Kaiserl. Akad. Wiss., Math.-Naturwiss. Kl.* 67: 170, 1898 (Schiffner 1898a).
- ** *Riccardia elegans* (Steph.) Hürl., *Bauhinia* 5 (4): 196, 1976 (Hürlimann 1976). Bas.: *Aneura elegans* Steph., *Sp. Hepat. (Stephani)* 6: 25, 1917 (Stephani 1917a).
- ** *Riccardia elisabethae* Thouvenot et Reeb, *Telopea* 17: 229, 2014 (Thouvenot and Reeb 2014).
- *** *Riccardia emarginata* (Steph.) K.G.Hell, *Bol. Fac. Filos. Univ. São Paulo, Bot.* 25: 100, 1969 (Hell 1969). Bas.: *Aneura emarginata* Steph., *Hedwigia* 32 (1): 20, 1893 (Stephani 1893a).
- ** *Riccardia erosa* (Steph.) E.W.Jones, *Trans. Brit. Bryol. Soc.* 3 (1): 83, 1956 (Jones 1956). Bas.: *Aneura erosa* Steph., *Hedwigia* 30 (6): 269, 1891 (Stephani 1891c).
- ** *Riccardia fastigiata* (Lehm.) Trevis., *Mem. Reale Ist. Lombardo Sci. (Ser. 3), C. Sci. Mat.* 4 (13): 431, 1877 (Trevisan 1877). Bas.: *Jungermannia fastigiata* Lehm., *Linnaea* 4: 370, 1829 (Lehmann 1829).
- ** *Riccardia fendleri* (Steph.) Pagán, *Bryologist* 45 (4): 80, 1942 (Pagán 1942b). Bas.: *Aneura fendleri* Steph., *Hedwigia* 32 (1): 20, 1893 (Stephani 1893a).
- ** *Riccardia flaccida* (Steph.) S.Hatt., *Bull. Tokyo Sci. Mus.* 11: 164, 1944 (Hattori 1944d). Bas.: *Aneura flaccida* Steph., *Sp. Hepat. (Stephani)* 6: 26, 1917 (Stephani 1917a).
- ** *Riccardia flaccidissima* Schiffn., *Denkschr. Kaiserl. Akad. Wiss., Math.-Naturwiss. Kl.* 67: 167, 1898 (Schiffner 1898a).
- ** *Riccardia flagellaris* (A.Gepp) H.A.Mill., *Phytologia* 47 (4): 323, 1981 (Miller 1981). Bas.: *Aneura flagellaris* A.Gepp, *J. Linn. Soc., Bot.* 39 (270): 194, 1909 (Gibbs 1909).
- ** *Riccardia flagellifrons* C.Gao, *Fl. Hepat. Chin. Boreali-Orient.*: 209, 1981 (Gao and Chang 1981).
- ** *Riccardia fleischeri* (Steph.) H.A.Mill., *Ark. Bot. (n.ser.)* 5 (2): 527, 1963 (Miller 1963). Bas.: *Aneura fleischeri* Steph., *Sp. Hepat. (Stephani)* 6: 26, 1917 (Stephani 1917a).
- ** *Riccardia foliacea* Meenks et C.De Jong, *Cryptog. Bryol. Lichénol.* 6 (1): 8, 1985 (Meenks and de Jong 1985).
- ** *Riccardia formosensis* (Steph.) Horik., *J. Sci. Hiroshima Univ., Ser. B, Div. 2, Bot.* 2: 125, 1934 (Horikawa 1934). Bas.: *Aneura formosensis* Steph., *Sp. Hepat. (Stephani)* 6: 27, 1917 (Stephani 1917a).
- *** *Riccardia fucoidea* (Sw.) C.Massal., *Nuovo Giorn. Bot. Ital.* 17 (3): 256, 1885 (Massalongo 1885). Bas.: *Jungermannia fucoidea* Sw., *Prodr. (Swartz)*: 145, 1788 (Swartz 1788).

- ** *Riccardia geniana* Hewson, Proc. Linn. Soc. New South Wales (ser. 2) 95 (1): 76, 1970 (Hewson 1970a).
- *** *Riccardia glaziovii* (Spruce) Meenks, J. Hattori Bot. Lab. 62: 173, 1987 (Meenks 1987). Bas.: *Aneura glaziovii* Spruce, Bull. Soc. Bot. France (Congr. Bot.) 36: cci, 1889 [1890] (Spruce 1889).
- ** *Riccardia gogolensis* (Steph.) Hewson, Proc. Linn. Soc. New South Wales (ser. 2) 95 (1): 102, 1970 (Hewson 1970a). Bas.: *Aneura gogolensis* Steph., Bull. Herb. Boissier 7 (9): 689 (230), 1899 (Stephani 1899e).
- ** *Riccardia gracilis* (Steph.) R.M.Schust., J. Hattori Bot. Lab. 26: 295, 1963 (Schuster 1963b). Bas.: *Aneura gracilis* Steph., Bull. Herb. Boissier 7 (10): 752 (262), 1899 (Stephani 1899f).
- ** *Riccardia grandiflora* (Steph.) H.A.Mill., Ark. Bot. (n.ser.) 5 (2): 528, 1963 (Miller 1963). Bas.: *Aneura grandiflora* Steph., Sp. Hepat. (Stephani) 6: 29, 1917 (Stephani 1917a).
- *** *Riccardia grollei* Furuki, Haussknechtia, Beih. 9: 139, 1999 (Furuki 1999).
- ** *Riccardia grossidens* (Steph.) Pagán, Bryologist 45 (4): 80, 1942 (Pagán 1942b). Bas.: *Aneura grossidens* Steph., Hedwigia 32 (1): 23, 1893 (Stephani 1893a).
- ** *Riccardia gunniana* (Steph.) H.A.Mill., Phytologia 47 (4): 323, 1981 (Miller 1981). Bas.: *Aneura gunniana* Steph., J. & Proc. Roy. Soc. New South Wales 48 (1/2): 96, 1914 (Stephani and Watts 1914).
- ** *Riccardia hamatiflora* (Steph.) H.A.Mill., Ark. Bot. (n.ser.) 5 (2): 526, 1963 (Miller 1963). Bas.: *Aneura hamatiflora* Steph., Bull. Herb. Boissier 5 (10): 844, 1897 (Stephani 1897c).
- *** *Riccardia hans-meyeri* (Steph.) Meenks et C.De Jong, Cryptog. Bryol. Lichénol. 6 (1): 12, 1985 (Meenks and de Jong 1985). Bas.: *Aneura hans-meyeri* Steph., Sp. Hepat. (Stephani) 6: 29, 1917 (Stephani 1917a).
- ** *Riccardia hans-meyeri* var. *dentata* Meenks, J. Hattori Bot. Lab. 62: 173, 1987 (Meenks 1987).
- ** *Riccardia hawaica* (Steph.) H.A.Mill., Ark. Bot. (n.ser.) 5 (2): 528, 1963 (Miller 1963). Bas.: *Aneura hawaica* Steph., Sp. Hepat. (Stephani) 6: 30, 1917 (Stephani 1917a).
- ** *Riccardia hebridensis* (Steph.) H.A.Mill., Phytologia 47 (4): 323, 1981 (Miller 1981). Bas.: *Aneura hebridensis* Steph., J. & Proc. Roy. Soc. New South Wales 48 (1/2): 96, 1914 (Stephani and Watts 1914).
- ** *Riccardia herzogiana* (Steph.) Meenks et C.De Jong, Cryptog. Bryol. Lichénol. 6 (1): 12, 1985 (Meenks and de Jong 1985). Bas.: *Aneura herzogiana* Steph., Biblioth. Bot. 87 (2): 175, 1916 (Stephani 1916a).
- ** *Riccardia heteroclada* Schiffn., Denkschr. Kaiserl. Akad. Wiss., Math.-Naturwiss. Kl. 67: 175, 1898 (Schiffner 1898a).
- * *Riccardia hirtiflora* (Steph.) Schiffn., Österr. Akad. Wiss., Math.-Naturwiss. Kl., Denkschr. 111: 19, 1964 (Schiffner and Arnell 1964). Bas.: *Aneura hirtiflora* Steph., Arch. Mus. Nac. Rio de Janeiro 13: 116, 1905 (Stephani 1905c).⁴⁰⁴

404 *Riccardia hirtiflora* is possibly conspecific with *Riccardia emarginata* (Gradstein and Costa 2003).

- ** *Riccardia humilis* (Gottsche) O.Yano, J. Hattori Bot. Lab. 56: 530, 1984 (Yano 1984). Bas.: *Pseudoneura humilis* Gottsche, Mexik. Leverm.: 260, 1863 (Gottsche 1863).
- ** *Riccardia hyalina* (Steph.) H.A.Mill., Phytologia 47 (4): 324, 1981 (Miller 1981). Bas.: *Aneura hyalina* Steph., Sp. Hepat. (Stephani) 6: 31, 1917 (Stephani 1917a).
- ** *Riccardia hydra* Hürl., Bauhinia 5 (4): 210, 1976 (Hürlimann 1976).
- ** *Riccardia hymenophylloides* Schiffn., Denkschr. Kaiserl. Akad. Wiss., Math.-Naturwiss. Kl. 67: 175, 1898 (Schiffner 1898a).
- * *Riccardia hymenophylloides* var. *flaccida* Schiffn., Denkschr. Kaiserl. Akad. Wiss., Math.-Naturwiss. Kl. 67: 176, 1898 (Schiffner 1898a).
- *** *Riccardia hymenophytoides* (Spruce) Meenks, Beih. Nova Hedwigia 88: 101, 1987 (Schultze-Motel and Menzel 1987). Bas.: *Aneura hymenophytoides* Spruce, Trans. & Proc. Bot. Soc. Edinburgh 15: 549, 1885 (Spruce 1885).
- ** *Riccardia hypipamensis* Hewson, Proc. Linn. Soc. New South Wales (ser. 2) 95 (1): 97, 1970 (Hewson 1970a).
- ** *Riccardia ibana* Hewson, Proc. Linn. Soc. New South Wales (ser. 2) 95 (1): 78, 1970 (Hewson 1970a).
- *** *Riccardia incurvata* Lindb., Helsingf. Dagbl. 1878 (315, 18 Nov.): 2, 1878 (Lindberg 1878).
- ** *Riccardia innovans* (Steph.) Pagán, Bryologist 45 (4): 80, 1942 (Pagán 1942b). Bas.: *Aneura innovans* Steph., Symb. Antill. 2: 470, 1901 (Stephani 1901f).
- ** *Riccardia insularis* Schiffn., Deutsche Südpolar-Exped. 1901-1903, 8 (bot.) 1: 66, 1906 (Schiffner 1906a).
- ** *Riccardia intricata* (Steph.) H.A.Mill., Phytologia 47 (4): 324, 1981 (Miller 1981). Bas.: *Aneura intricata* Steph., Bot. Jahrb. Syst. 23 (1/2, 3): 301, 1896 (Stephani 1896a).
- ** *Riccardia jackii* Schiffn., Denkschr. Kaiserl. Akad. Wiss., Math.-Naturwiss. Kl. 67: 165, 1898 (Schiffner 1898a).
- * *Riccardia jackii* var. *densa* Schiffn., Denkschr. Kaiserl. Akad. Wiss., Math.-Naturwiss. Kl. 67: 165, 1898 (Schiffner 1898a).
- ** *Riccardia judithae* Meenks et C.De Jong, Cryptog. Bryol. Lichénol. 6 (1): 12, 1985 (Meenks and de Jong 1985).
- *** *Riccardia jugata* R.M.Schust., J. Hattori Bot. Lab. 62: 305, 1987 (Schuster 1987d).
- * *Riccardia karstenii* (Steph.) Schiffn., Denkschr. Kaiserl. Akad. Wiss., Math.-Naturwiss. Kl. 67: 177, 1898 (Schiffner 1898a). Bas.: *Aneura karstenii* Steph., Hedwigia 32 (1): 23, 1893 (Stephani 1893a).
- ** *Riccardia laticostata* (Spruce) Schiffn., Österr. Akad. Wiss., Math.-Naturwiss. Kl., Denkschr. 111: 12, 1964 (Schiffner and Arnell 1964). Bas.: *Aneura laticostata* Spruce, J. Linn. Soc., Bot. 30 (210): 367, 1895 (Gepp 1895b).
- ** *Riccardia latifrondoides* Schiffn., Denkschr. Kaiserl. Akad. Wiss., Math.-Naturwiss. Kl. 67: 168, 1898 (Schiffner 1898a).
- ** *Riccardia lepidomitra* (Spruce) Gradst., J. Hattori Bot. Lab. 45: 130, 1979 (Gradstein and Hekking 1979). Bas.: *Aneura lepidomitra* Spruce, Trans. & Proc. Bot. Soc. Edinburgh 15: 549, 1885 (Spruce 1885).

- ** *Riccardia leptophylla* (Spruce) Herzog, Svensk Bot. Tidskr. 46 (1): 65, 1952 (Herzog 1952e). Bas.: *Aneura leptophylla* Spruce, Trans. & Proc. Bot. Soc. Edinburgh 15: 544, 1885 (Spruce 1885).
- ** *Riccardia leptothallus* R.M.Schust., J. Hattori Bot. Lab. 67: 87, 1989 (Schuster 1989).
- ** *Riccardia levieri* Schiffn., Österr. Bot. Z. 49 (4): 130, 1899 (Schiffner 1899b).
- ** *Riccardia lichenoides* (Steph.) H.A.Mill., Phytologia 47 (4): 324, 1981 (Miller 1981). Bas.: *Aneura lichenoides* Steph., Bot. Jahrb. Syst. 23 (1/2, 3): 301, 1896 (Stephani 1896a).
- ** *Riccardia ligulata* (Steph.) Pócs et Schäf.-Verw., Cryptog. Bryol. 31 (4): 390, 2010 (Schäfer-Verwimp 2010). Bas.: *Aneura ligulata* Steph., Sp. Hepat. (Stephani) 6: 32, 1917 (Stephani 1917a).
- ** *Riccardia lilliena* (Steph.) H.A.Mill., Ark. Bot. (n.ser.) 5 (2): 527, 1963 (Miller 1963). Bas.: *Aneura lilliena* Steph., Sp. Hepat. (Stephani) 6: 33, 1917 (Stephani 1917a).
- ** *Riccardia limbata* (Steph.) E.W.Jones, Trans. Brit. Bryol. Soc. 3 (1): 79, 1956 (Jones 1956). Bas.: *Aneura limbata* Steph., Hedwigia 30 (5): 203, 1891 (Stephani 1891a).
- ** *Riccardia loefgrenii* Schiffn., Österr. Akad. Wiss., Math.-Naturwiss. Kl., Denkschr. 111: 14, 1964 (Schiffner and Arnell 1964).
- ** *Riccardia longiflora* (Steph.) Hewson, Proc. Linn. Soc. New South Wales (ser. 2) 95 (1): 88, 1970 (Hewson 1970a). Bas.: *Aneura longiflora* Steph., Bull. Herb. Boissier 7 (10): 746 (256), 1899 (Stephani 1899f).
- ** *Riccardia longispica* (Steph.) Pearson, Forh. Vidensk.-Selsk. Kristiania 1892 (14): 4, 1893 (Pearson 1893). Bas.: *Aneura longispica* Steph., Bot. Gaz. 15 (11): 281, 1890 (Stephani 1890c).
- ** *Riccardia loriana* (Steph.) H.A.Mill., Ark. Bot. (n.ser.) 5 (2): 528, 1963 (Miller 1963). Bas.: *Aneura loriana* Steph., Bull. Herb. Boissier 7 (10): 733 (243), 1899 (Stephani 1899f).
- ** *Riccardia macdonaldiana* Hewson, Proc. Linn. Soc. New South Wales (ser. 2) 95 (1): 93, 1970 (Hewson 1970a).
- ** *Riccardia macrantha* (Pearson) H.A.Mill., Phytologia 47 (4): 324, 1981 (Miller 1981). Bas.: *Aneura macrantha* Pearson, J. Linn. Soc., Bot. 46 (305): 17, 1922 (Pearson 1922b).
- *** *Riccardia magnicellularis* Furuki, J. Hattori Bot. Lab. 100: 93, 2006 (Furuki 2006a).
- *** *Riccardia metzgeriiformis* (Steph.) R.M.Schust., J. Hattori Bot. Lab. 26: 295, 1963 (Schuster 1963b). Bas.: *Aneura metzgeriiformis* Steph., Bull. Herb. Boissier 7 (10): 753 (263), 1899 (Stephani 1899f).
- ** *Riccardia microscopica* (Nees) Kuntze, Revis. Gen. Pl. 2: 838, 1891 (Kuntze 1891). Bas.: *Aneura microscopica* Nees, Syn. Hepat. 4: 500, 1846 (Gottsche et al. 1846).
- ** *Riccardia minuta* (Steph.) W.Martin, Trans. & Proc. Roy. Soc. New Zealand 78 (4): 499, 1950 (Martin 1950). Bas.: *Aneura minuta* Steph., Sp. Hepat. (Stephani) 6: 34, 1917 (Stephani 1917a).

- * *Riccardia multifidoides* Schiffn., Denkschr. Kaiserl. Akad. Wiss., Math.-Naturwiss. Kl. 67: 166, 1898 (Schiffner 1898a).⁴⁰⁵
- ** *Riccardia multispica* (Steph.) S.Hatt., Bull. Tokyo Sci. Mus. 11: 164, 1944 (Hattori 1944d). Bas.: *Aneura multispica* Steph., Sp. Hepat. (Stephani) 6: 34, 1917 (Stephani 1917a).
- ** *Riccardia nadeaudii* (Steph.) Hürl., Bauhinia 5 (4): 201, 1976 (Hürlimann 1976). Bas.: *Aneura nadeaudii* Steph., Bull. Herb. Boissier 7 (10): 750 (260), 1899 (Stephani 1899f).
- ** *Riccardia newellana* (Steph.) H.A.Mill., Ark. Bot. (n.ser.) 5 (2): 528, 1963 (Miller 1963). Bas.: *Aneura newellana* Steph., Sp. Hepat. (Stephani) 6: 35, 1917 (Stephani 1917a).
- ** *Riccardia nigra* (Steph.) H.A.Mill., Ark. Bot. (n.ser.) 5 (2): 527, 1963 (Miller 1963). Bas.: *Aneura nigra* Steph., Sp. Hepat. (Stephani) 6: 35, 1917 (Stephani 1917a).
- ** *Riccardia nobilis* (Steph.) Schiffn., Consp. Hepat. Arch. Ind.: 56, 1898 (Schiffner 1898b). Bas.: *Aneura nobilis* Steph., Hedwigia 32 (1): 24, 1893 (Stephani 1893a).
- ** *Riccardia novo-amstelodamensis* Schiffn., Deutsche Südpolar-Exped. 1901-1903, 8 (bot.) 1: 65, 1906 (Schiffner 1906a).
- ** *Riccardia nudiflora* (Steph.) Grolle, Bryophyt. Biblioth. 48: 130, 1995 (Grolle 1995). Bas.: *Aneura nudiflora* Steph., Bot. Gaz. 15 (11): 282, 1890 (Stephani 1890c).
- ** *Riccardia obtusa* S.W.Arnell, Bot. Not. 105: 142, 1952 (Arnell 1952b).
- ** *Riccardia obtusifrons* (Steph.) H.A.Mill., Ark. Bot. (n.ser.) 5 (2): 527, 1963 (Miller 1963). Bas.: *Aneura obtusifrons* Steph., Sp. Hepat. (Stephani) 6: 36, 1917 (Stephani 1917a).
- ** *Riccardia omkaliensis* Hewson, Proc. Linn. Soc. New South Wales (ser. 2) 95 (1): 97, 1970 (Hewson 1970a).
- *** *Riccardia pallida* (Spruce) Meenks et C.De Jong, Cryptog. Bryol. Lichénol. 6 (1): 15, 1985 (Meenks and de Jong 1985). Bas.: *Aneura pallida* Spruce, Trans. & Proc. Bot. Soc. Edinburgh 15: 547, 1885 (Spruce 1885).
- ** *Riccardia palmatifida* (Steph.) H.A.Mill., Phytologia 47 (4): 324, 1981 (Miller 1981). Bas.: *Aneura palmatifida* Steph., Sp. Hepat. (Stephani) 6: 36, 1917 (Stephani 1917a).
- * *Riccardia palmatififormis* Schiffn., J. Indian Bot. Soc. 38 (4): 538, 1959 [1960] (Schiffner et al. 1959).⁴⁰⁶
- ** *Riccardia papillata* (Gottsche) Hässel ex Gradst. et Hekking, J. Hattori Bot. Lab. 45: 130, 1979 (Gradstein and Hekking 1979). Bas.: *Pseudoneura papillata* Gottsche, Ann. Sci. Nat. Bot. (sér. 5) 1: 185, 1864 (Gottsche 1864).
- ** *Riccardia paramorum* Meenks, J. Hattori Bot. Lab. 62: 176, 1987 (Meenks 1987).

405 *Riccardia multifidoides* is conspecific with *Riccardia multifida* in Meijer (1959), but that was not based on examination of type material (Söderström et al. 2010a).

406 *Riccardia palmatififormis* was treated as a doubtful taxon with some affinity with *Riccardia levieri* by Srivastava and Udar (1976).

- *** *Riccardia parasitans* (Steph.) Meenks et C.De Jong, Cryptog. Bryol. Lichénol. 6 (1): 17, 1985 (Meenks and de Jong 1985). Bas.: *Aneura parasitans* Steph., Biblioth. Bot. 87 (2): 175, 1916 (Stephani 1916a).
- ** *Riccardia parvula* Schiffn., Denkschr. Kaiserl. Akad. Wiss., Math.-Naturwiss. Kl. 67: 172, 1898 (Schiffner 1898a).
- ** *Riccardia pauciramea* (Steph.) H.A.Mill., Ark. Bot. (n.ser.) 5 (2): 527, 1963 (Miller 1963). Bas.: *Aneura pauciramea* Steph., Bull. Herb. Boissier 5 (10): 845, 1897 (Stephani 1897c).
- ** *Riccardia paulensis* Schiffn., Österr. Akad. Wiss., Math.-Naturwiss. Kl., Denkschr. 111: 16, 1964 (Schiffner and Arnell 1964).
- ** *Riccardia pectinata* (Austin) H.A.Mill., Ark. Bot. (n.ser.) 5 (2): 526, 1963 (Miller 1963). Bas.: *Aneura pectinata* Austin, Bull. Torrey Bot. Club 5 (3): 15, 1874 (Austin 1874).
- ** *Riccardia pellucida* Piippo, J. Hattori Bot. Lab. 68: 134, 1990 (Piippo 1990). *Nom. nov. pro Aneura pellucida* Steph., Sp. Hepat. (Stephani) 6: 37, 1917 (Stephani 1917a), *nom. illeg.*
- ** *Riccardia pembaiensis* (Steph.) Hürl., Bauhinia 5 (4): 205, 1976 (Hürlimann 1976). Bas.: *Aneura pembaiensis* Steph., Sp. Hepat. (Stephani) 6: 37, 1917 (Stephani 1917a).
- ** *Riccardia pengagensis* Hewson, Proc. Linn. Soc. New South Wales (ser. 2) 95 (1): 108, 1970 (Hewson 1970a).
- ** *Riccardia personii* S.C.Srivast. et Udar, Lindbergia 4 (1/2): 127, 1977 (Srivastava and Udar 1977).
- *** *Riccardia philippinensis* Furuki, J. Hattori Bot. Lab. 100: 94, 2006 (Furuki 2006a).
- ** *Riccardia phleganiana* Hewson, Proc. Linn. Soc. New South Wales (ser. 2) 95 (1): 80, 1970 (Hewson 1970a).
- ** *Riccardia plana* (Steph.) Hürl., Bauhinia 5 (4): 205, 1976 (Hürlimann 1976). Bas.: *Aneura plana* Steph., Sp. Hepat. (Stephani) 6: 38, 1917 (Stephani 1917a).
- * *Riccardia plana* var. *minor* (Pearson) Hürl. ex H.A.Mill., H. Whittier et B. Whittier, Bryophyt. Biblioth. 25: 303, 1983 (Miller et al. 1983). Bas.: *Aneura plana* var. *minor* Pearson, J. Linn. Soc., Bot. 46 (305): 16, 1922 (Pearson 1922b).
- ** *Riccardia planifrons* (Spruce) Pagán, Bryologist 45 (4): 80, 1942 (Pagán 1942b). Bas.: *Aneura planifrons* Spruce, J. Linn. Soc., Bot. 30 (210): 368, 1895 (Gepp 1895b).
- *** *Riccardia plumiformis* (Spruce) Hässel ex Meenks, Beih. Nova Hedwigia 88: 101, 1987 (Schultze-Motel and Menzel 1987). Bas.: *Aneura plumiformis* Spruce, Trans. & Proc. Bot. Soc. Edinburgh 15: 548, 1885 (Spruce 1885).
- ** *Riccardia plumosa* (Mitt.) E.O.Campb., J. Roy. Soc. New Zealand 1 (1): 24, 1971 (Campbell 1971). Bas.: *Sarcomitrium plumosum* Mitt., Bonplandia 10 (2): 19, 1862 (Mitten 1862).
- *** *Riccardia poeppigiana* (Lehm. et Lindenb.) Hässel ex Meenks et C.De Jong, Cryptog. Bryol. Lichénol. 6 (1): 17, 1985 (Meenks and de Jong 1985). Bas.: *Jungermannia poeppigiana* Lehm. et Lindenb., Nov. Stirp. Pug. 6: 23, 1834 (Lehmann 1834).

- ** *Riccardia porcina* (Hewson) L.Söderstr., *Phytotaxa* 202 (1): 70, 2015 (Söderström et al. 2015c). Bas.: *Riccardia bliklika* var. *porcina* Hewson, *Proc. Linn. Soc. New South Wales* (ser. 2) 95 (1): 84, 1970 (Hewson 1970a).
- ** *Riccardia portoricensis* (Steph.) Pagán, *Bryologist* 42 (1): 7, 1939 (Pagán 1939a). Bas.: *Aneura portoricensis* Steph., *Bull. Herb. Boissier* 7 (10): 739 (249), 1899 (Stephani 1899f).
- ** *Riccardia punahuina* (Steph.) H.A.Mill., *Ark. Bot. (n.ser.)* 5 (2): 526, 1963 (Miller 1963). Bas.: *Aneura punahuina* Steph., *Sp. Hepat. (Stephani)* 6: 39, 1917 (Stephani 1917a).
- ** *Riccardia ramosissima* (Steph.) Grolle, *Bryophyt. Biblioth.* 48: 130, 1995 (Grolle 1995). Bas.: *Aneura ramosissima* Steph., *Bull. Soc. Roy. Bot. Belgique, Compt. Rend.* 30 (2): 196, 1891 [1892] (Stephani 1891b).
- ** *Riccardia regina* Meenks et C.De Jong, *Cryptog. Bryol. Lichénol.* 6 (1): 17, 1985 (Meenks and de Jong 1985).
- *** *Riccardia regnellii* (Ångstr.) K.G.Hell, *Bol. Fac. Filos. Univ. São Paulo, Bot.* 25: 110, 1969 (Hell 1969). Bas.: *Pseudoneura regnellii* Ångstr., *Öfvers. Kongl. Vetensk.-Akad. Förh.* 33 (7): 90, 1876 [1877] (Ångström 1876).
- ** *Riccardia reyesiana* Meenks, *Acta Bot. Hung.* 32 (1/4): 207, 1986 (Meenks 1986).
- ** *Riccardia riccioides* Pearson, *Univ. Calif. Publ. Bot.* 10 (4): 310, 1923 (Pearson 1923).
- * *Riccardia rigida* Schiffn., *Denkschr. Kaiserl. Akad. Wiss., Math.-Naturwiss. Kl.* 67: 172, 1898 (Schiffner 1898a).
- ** *Riccardia robbinsii* Hewson et Grolle, *J. Hattori Bot. Lab.* 29: 72, 1966 (Grolle 1966i).
- ** *Riccardia robusta* (Steph.) H.A.Mill., *Phytologia* 47 (4): 324, 1981 (Miller 1981). Bas.: *Aneura robusta* Steph., *Sp. Hepat. (Stephani)* 6: 40, 1917 (Stephani 1917a).
- ** *Riccardia rockii* (Steph.) H.A.Mill., *Ark. Bot. (n.ser.)* 5 (2): 527, 1963 (Miller 1963). Bas.: *Aneura rockii* Steph., *Sp. Hepat. (Stephani)* 6: 41, 1917 (Stephani 1917a).
- ** *Riccardia rupicola* (Steph.) Hewson, *Proc. Linn. Soc. New South Wales* (ser. 2) 95 (1): 99, 1970 (Hewson 1970a). Bas.: *Aneura rupicola* Steph., *Sp. Hepat. (Stephani)* 6: 41, 1917 (Stephani 1917a).
- ** *Riccardia russellii* R.M.Schust., *J. Hattori Bot. Lab.* 67: 93, 1989 (Schuster 1989).
- ** *Riccardia saccatiflora* (Steph.) S.W.Arnell, *Bot. Not.* 105: 144, 1952 (Arnell 1952b). Bas.: *Aneura saccatiflora* Steph., *Bot. Gaz.* 15 (11): 282, 1890 (Stephani 1890c).
- ** *Riccardia santapaui* Udar et S.C.Srivast., *Rev. Bryol. Lichénol.* 39 (1): 155, 1973 (Udar and Srivastava 1973).
- *** *Riccardia schwaneckeii* (Steph.) Pagán, *Bryologist* 42 (1): 7, 1939 (Pagán 1939a). Bas.: *Aneura schwaneckeii* Steph., *Hedwigia* 27 (11/12): 278, 1888 (Stephani 1888c).
- ** *Riccardia singaporensis* Schiffn., *Denkschr. Kaiserl. Akad. Wiss., Math.-Naturwiss. Kl.* 67: 165, 1898 (Schiffner 1898a).
- ** *Riccardia smaragdina* Meenks et C.De Jong, *Cryptog. Bryol. Lichénol.* 6 (1): 20, 1985 (Meenks and de Jong 1985).
- *** *Riccardia sprucei* (Steph.) Meenks et C.De Jong, *Cryptog. Bryol. Lichénol.* 6 (1): 22, 1985 (Meenks and de Jong 1985). Bas.: *Aneura sprucei* Steph., *Bull. Herb. Boissier* 5 (10): 844, 1897 (Stephani 1897c).

- ** *Riccardia squamifera* Schiffn., Österr. Akad. Wiss., Math.-Naturwiss. Kl., Denkschr. 111: 19, 1964 (Schiffner and Arnell 1964).
- * *Riccardia stipatiflora* (Steph.) Pagán, Bryologist 45 (4): 81, 1942 (Pagán 1942b). Bas.: *Aneura stipatiflora* Steph., Hedwigia 32 (1): 27, 1893 (Stephani 1893a).
- ** *Riccardia stricta* R.M.Schust., J. Hattori Bot. Lab. 62: 326, 1987 (Schuster 1987d).
- ** *Riccardia subantarctica* Grolle et L.Söderstr., Phytotaxa 202 (1): 70, 2015 (Söderström et al. 2015c). *Nom. nov. pro Riccardia pauciramea* R.M.Schust., J. Hattori Bot. Lab. 67: 102, 1989 (Schuster 1989), *nom. illeg.*
- ** *Riccardia subexalata* Schiffn., Denkschr. Kaiserl. Akad. Wiss., Math.-Naturwiss. Kl. 67: 163, 1898 (Schiffner 1898a).
- * *Riccardia subexalata* var. *procera* Schiffn., Denkschr. Kaiserl. Akad. Wiss., Math.-Naturwiss. Kl. 67: 164, 1898 (Schiffner 1898a).
- * *Riccardia submersa* (Hook.f. et Taylor) Trevis., Mem. Reale Ist. Lombardo Sci. (Ser. 3), C. Sci. Mat. 4 (13): 431, 1877 (Trevisan 1877). Bas.: *Jungermannia multifida* var. *submersa* Hook.f. et Taylor, London J. Bot. 4: 94, 1845 (Hooker and Taylor 1845).
- ** *Riccardia submultifida* Horik., J. Sci. Hiroshima Univ., Ser. B, Div. 2, Bot. 2: 128, 1934 (Horikawa 1934).
- ** *Riccardia subpalmata* (Steph.) Hürl., Bauhinia 5 (4): 194, 1976 (Hürlimann 1976). Bas.: *Aneura subpalmata* Steph., Sp. Hepat. (Stephani) 6: 43, 1917 (Stephani 1917a).
- ** *Riccardia subsimplex* (Steph.) Pagán, Bryologist 45 (4): 81, 1942 (Pagán 1942b). Bas.: *Aneura subsimplex* Steph., Hedwigia 32 (1): 27, 1893 (Stephani 1893a).
- ** *Riccardia sumatrana* Schiffn., Denkschr. Kaiserl. Akad. Wiss., Math.-Naturwiss. Kl. 67: 173, 1898 (Schiffner 1898a).
- ** *Riccardia tabitensis* (Steph.) Hürl., Bauhinia 5 (4): 201, 1976 (Hürlimann 1976). Bas.: *Aneura tabitensis* Steph., Bull. Herb. Boissier 7 (10): 728 (238), 1899 (Stephani 1899f).
- * *Riccardia tenella* Hewson, Proc. Linn. Soc. New South Wales (ser. 2) 95 (1): 95, 1970 (Hewson 1970a).
- *** *Riccardia tenuicula* (Spruce) Meenks, Beih. Nova Hedwigia 88: 101, 1987 (Schultze-Motel and Menzel 1987). Bas.: *Aneura tenuicula* Spruce, Trans. & Proc. Bot. Soc. Edinburgh 15: 545, 1885 (Spruce 1885).
- ** *Riccardia tenuis* (Steph.) Schiffn., Denkschr. Kaiserl. Akad. Wiss., Math.-Naturwiss. Kl. 67: 172, 1898 (Schiffner 1898a). Bas.: *Aneura tenuis* Steph., Hedwigia 32 (1): 28, 1893 (Stephani 1893a).
- * *Riccardia tjibodensis* Schiffn., Denkschr. Kaiserl. Akad. Wiss., Math.-Naturwiss. Kl. 67: 165, 1898 (Schiffner 1898a).
- *** *Riccardia trichomanoides* (Spruce) Hässel ex Meenks, Beih. Nova Hedwigia 88: 101, 1987 (Schultze-Motel and Menzel 1987). Bas.: *Aneura trichomanoides* Spruce, Trans. & Proc. Bot. Soc. Edinburgh 15: 547, 1885 (Spruce 1885).
- ** *Riccardia trukensis* H.A.Mill. et Bonner, Beih. Nova Hedwigia 11: 70, 1963 (Miller et al. 1963).
- ** *Riccardia tumberiensis* Hewson, Proc. Linn. Soc. New South Wales (ser. 2) 95 (1): 87, 1970 (Hewson 1970a).

- ** *Riccardia upoluna* (Steph.) Grolle, J. Hattori Bot. Lab. 36: 77, 1972 [1973] (Grolle and Schultze-Motel 1972). Bas.: *Aneura upoluna* Steph., Denkschr. Kaiserl. Akad. Wiss., Math.-Naturwiss. Kl. 91: 165, 1915 (Stephani 1915a).
- ** *Riccardia valida* (Steph.) J.J.Engel, Bryologist 78 (3): 362, 1975 (Engel 1975). Bas.: *Aneura valida* Steph., Sp. Hepat. (Stephani) 6: 44, 1917 (Stephani 1917a).
- ** *Riccardia venosa* (Steph.) Hürl., Bauhinia 5 (4): 208, 1976 (Hürlimann 1976). Bas.: *Aneura venosa* Steph., Sp. Hepat. (Stephani) 6: 45, 1917 (Stephani 1917a).
- * *Riccardia villosa* (Steph.) Pandé et S.C.Srivast., Biol. Mem. 1 (1/2): 129, 1976 (Srivastava and Udar 1976). Bas.: *Aneura villosa* Steph., Sp. Hepat. (Stephani) 6: 45, 1917 (Stephani 1917a).
- ** *Riccardia virens* (Steph.) Hürl., Bauhinia 5 (4): 209, 1976 (Hürlimann 1976). Bas.: *Aneura virens* Steph., Sp. Hepat. (Stephani) 6: 45, 1917 (Stephani 1917a).
- ** *Riccardia virgata* (Gottsche) Pagán, Bryologist 42 (1): 7, 1939 (Pagán 1939a). Bas.: *Aneura virgata* Gottsche, Hedwigia 27 (11/12): 277, 1888 (Stephani 1888c).
- ** *Riccardia wallisii* (Steph.) Gradst., J. Hattori Bot. Lab. 45: 130, 1979 (Gradstein and Hekking 1979). Bas.: *Aneura wallisii* Steph., Hedwigia 32 (1): 28, 1893 (Stephani 1893a).
- ** *Riccardia wettsteinii* Schiffn., Denkschr. Kaiserl. Akad. Wiss., Math.-Naturwiss. Kl. 67: 162, 1898 (Schiffner 1898a).
- * *Riccardia wettsteinii* var. *angustilimbica* Schiffn., Denkschr. Kaiserl. Akad. Wiss., Math.-Naturwiss. Kl. 67: 163, 1898 (Schiffner 1898a).
- * *Riccardia wettsteinii* var. *crassa* Schiffn., Denkschr. Kaiserl. Akad. Wiss., Math.-Naturwiss. Kl. 67: 163, 1898 (Schiffner 1898a).
- * *Riccardia wettsteinii* var. *procera* Schiffn., Denkschr. Kaiserl. Akad. Wiss., Math.-Naturwiss. Kl. 67: 162, 1898 (Schiffner 1898a).
- * *Riccardia wettsteinii* var. *tenuiretis* Schiffn., Denkschr. Kaiserl. Akad. Wiss., Math.-Naturwiss. Kl. 67: 162, 1898 (Schiffner 1898a).
- ** *Riccardia womersleyana* Hewson, Proc. Linn. Soc. New South Wales (ser. 2) 95 (1): 98, 1970 (Hewson 1970a).
- ** ***Verdoornia* R.M.Schust.**, J. Hattori Bot. Lab. 26: 291, 1963 (Schuster 1963b).
- *** *Verdoornia succulenta* R.M.Schust., J. Hattori Bot. Lab. 26: 291, 1963 (Schuster 1963b).

*** Metzgeriaceae H.Klinggr.

by D. P. Costa

The treatment of Metzgeriaceae follows what was outlined in Hewson (1982), Kuwahara (1986), Crandall-Stotler and Stotler (2000), and Costa (2008).

- *** *Metzgeria Raddi*, Jungermanniogr. Etrusca: 34, 1818 (Raddi 1818a).⁴⁰⁷
- *** *Metzgeria acuminata* Steph., Bull. Herb. Boissier 7 (12): 934 (282), 1899 (Stephani 1899g).
- *** *Metzgeria adscendens* Steph. ex K.I.Goebel, Flora 77: 427, 1893 (Goebel 1893a).
- *** *Metzgeria agnewiae* Kuwah., Bryologist 76 (4): 569, 1973 (Kuwahara 1973b).⁴⁰⁸
- *** *Metzgeria albinea* Spruce, Bull. Soc. Bot. France (Congr. Bot.) 36: cci, 1889 [1890] (Spruce 1889).
- *** *Metzgeria albinea* var. *aberrans* Schiffn., Österr. Akad. Wiss., Math.-Naturwiss. Kl., Denkschr. 111: 27, 1964 (Schiffner and Arnell 1964).
- *** *Metzgeria albinea* var. *angusta* (Steph.) D.P.Costa et Gradst., Bryologist 103 (4): 757, 2000 [2001] (Costa and Gradstein 2000). Bas.: *Metzgeria angusta* Steph., Bull. Herb. Boissier 7 (12): 944 (292), 1899 (Stephani 1899g).
- *** *Metzgeria allionii* Steph., Sp. Hepat. (Stephani) 6: 47, 1917 (Stephani 1917a).
- *** *Metzgeria alpina* R.M.Schust. et J.J.Engel, Brittonia 40 (2): 203, 1988 (Engel and Schuster 1988).
- *** *Metzgeria americana* Masuzaki, Hikobia 15 (4): 441, 2010 (Masuzaki et al. 2010a).
- *** *Metzgeria attenuata* Steph., Biblioth. Bot. 87 (2): 177, 1916 (Stephani 1916a).
- *** *Metzgeria aurantiaca* Steph., Bull. Herb. Boissier 7 (12): 938 (286), 1899 (Stephani 1899g).
- *** *Metzgeria auriculata* Grolle et Kuwah., Bryophyt. Biblioth. 28: 194, 1986 (Kuwahara 1986).
- *** *Metzgeria bahiensis* Schiffn., Österr. Bot. Z. 61 (7/8): 262, 1911 (Schiffner 1911).
- *** *Metzgeria bartlettii* Kuwah., Mem. New York Bot. Gard. 45: 561, 1987 (Kuwahara 1987).
- *** *Metzgeria bischlerae* Kuwah., J. Hattori Bot. Lab. 40: 264, 1976 (Kuwahara 1976a).
- *** *Metzgeria bracteata* Spruce, Trans. & Proc. Bot. Soc. Edinburgh 15: 553, 1885 (Spruce 1885).
- *** *Metzgeria brasiliensis* Schiffn., Österr. Akad. Wiss., Math.-Naturwiss. Kl., Denkschr. 111: 22, 1964 (Schiffner and Arnell 1964).
- *** *Metzgeria chilensis* Steph., Bull. Herb. Boissier 7 (12): 937 (285), 1899 (Stephani 1899g).
- *** *Metzgeria ciliata* Raddi, Critt. Brasil.: 17, 1822 (Raddi 1822).⁴⁰⁹
- *** *Metzgeria claviflora* Spruce, Trans. & Proc. Bot. Soc. Edinburgh 15: 556, 1885 (Spruce 1885).

407 *Metzgeria* was divided into many subdivisions proposed by Kuwahara in a series of publications, but they are artificial and not accepted here.

408 *Metzgeria agnewiae* is conspecific with *Metzgeria consanguinea* in So (2004), but it was accepted by Costa (2008).

409 *Metzgeria ciliata* is conspecific with *Metzgeria furcata* in Grolle (2002) and with *Metzgeria dichotoma* in Gradstein and Costa (2003), but it was accepted by Costa (2008).

- *** *Metzgeria cleefii* Kuwah., Proc. Kon. Ned. Akad. Wetensch. C 85 (3): 360, 1982 (Kuwahara 1982).
- ** *Metzgeria comata* Steph., Bull. Herb. Boissier 7 (12): 939 (287), 1899 (Stephani 1899g).
- *** *Metzgeria conjugata* Lindb., Acta Soc. Sci. Fenn. 10: 495, 1875 (Lindberg 1875).⁴¹⁰
- *** *Metzgeria consanguinea* Schiffn., Nova Acta Acad. Caes. Leop.-Carol. German. Nat. Cur. 60 (2): 271, 1893 (Schiffner 1893a).
- *** *Metzgeria convoluta* Steph., Bull. Herb. Boissier 7 (12): 940 (288), 1899 (Stephani 1899g).
- ** *Metzgeria coorgensis* S.C.Srivast. et S.Srivast., Phytotaxonomy 4: 81, 2004 (Srivastava and Srivastava 2004).
- ** *Metzgeria corralensis* Steph., Bull. Herb. Boissier 7 (12): 933 (281), 1899 (Stephani 1899g).
- *** *Metzgeria crassipilis* (Lindb.) A.Evans, Rhodora 11 (130): 188, 1909 (Evans 1909). Bas.: *Metzgeria furcata* subsp. *crassipilis* Lindb., Acta Soc. Fauna Fl. Fenn. 1 (2): 42, 1877 (Lindberg 1877b).
- *** *Metzgeria cratoneura* Schiffn., Österr. Akad. Wiss., Math.-Naturwiss. Kl., Denkschr. 111: 24, 1964 (Schiffner and Arnell 1964).
- *** *Metzgeria cylindra* Kuwah., Bryologist 81 (3): 405, 1978 (Kuwahara 1978).
- ** *Metzgeria decrescens* Steph., Bull. Herb. Boissier 7 (12): 932 (280), 1899 (Stephani 1899g).
- *** *Metzgeria dichotoma* (Sw.) Nees, Syn. Hepat. 4: 504, 1846 (Gottsche et al. 1846). Bas.: *Jungermannia dichotoma* Sw., Prodr. (Swartz): 145, 1788 (Swartz 1788).
- ** *Metzgeria divaricata* A.Evans, Proc. Amer. Acad. Arts 58 (7): 288, 1923 (Evans 1923a).
- *** *Metzgeria dorsipara* (Herzog) Kuwah., J. Hattori Bot. Lab. 40: 269, 1976 (Kuwahara 1976a). Bas.: *Metzgeria violacea* var. *dorsipara* Herzog, Svensk Bot. Tidskr. 51 (1): 187, 1957 (Herzog 1957a).
- *** *Metzgeria duricosta* Steph., Sp. Hepat. (Stephani) 6: 50, 1917 (Stephani 1917a).
- ** *Metzgeria engelii* Kuwah., Hikobia 8 (3/4): 275, 1980 (Kuwahara 1980a).
- ** *Metzgeria epiphylla* A.Evans, Proc. Amer. Acad. Arts 58 (7): 303, 1923 (Evans 1923a).
- *** *Metzgeria filicina* Mitt., Hooker's J. Bot. Kew Gard. Misc. 3: 361, 1851 (Mitten 1851).
- ** *Metzgeria flavovirens* Colenso, Trans. & Proc. New Zealand Inst. 21: 79, 1889 (Colenso 1889).
- * *Metzgeria foliicola* Schiffn., Denkschr. Kaiserl. Akad. Wiss., Math.-Naturwiss. Kl. 67: 181, 1898 (Schiffner 1898a).⁴¹¹
- *** *Metzgeria francana* Steph., Sp. Hepat. (Stephani) 6: 51, 1917 (Stephani 1917a).

⁴¹⁰ *Metzgeria conjugata* is a complex taxon. Fuselier et al. (2009) demonstrated the occurrence of two clearly separated lineages, a northern North American lineage (possibly corresponding to *Metzgeria conjugata* s.str.) and a southern North American and European lineage (possibly corresponding to *Metzgeria simplex*).

⁴¹¹ *Metzgeria foliicola* is conspecific with *Metzgeria albinea* in Kuwahara (1986), but it was accepted by So (2002c).

- ** *Metzgeria frontipilis* Lindb., Acta Soc. Fauna Fl. Fenn. 1 (2): 14, 1877 (Lindberg 1877b).
- *** *Metzgeria fruticola* Spruce, Trans. & Proc. Bot. Soc. Edinburgh 15: 554, 1885 (Spruce 1885).
- *** *Metzgeria furcata* (L.) Corda, Gen. hepat.: 654, 1829 (Corda 1829). Bas.: *Jungermannia furcata* L., Sp. Pl. 1: 1136, 1753 (Linnaeus 1753).⁴¹²
- * *Metzgeria furcata* var. *expansa* Douin, Rev. Bryol. 30 (3): 47, 1903 (Douin 1903).
- * *Metzgeria furcata* var. *pacifica* Brinkm., Bryologist 34 (2): 15, 1931 (Brinkman 1931).
- *** *Metzgeria grandiflora* A.Evans, Torreya 16 (3): 68, 1916 (Evans 1916).
- ** *Metzgeria hasselii* Kuwah., J. Hattori Bot. Lab. 40: 509, 1976 (Kuwahara 1976c).
- ** *Metzgeria hebridensis* Steph., Sp. Hepat. (Stephani) 6: 51, 1917 (Stephani 1917a).
- *** *Metzgeria hegewaldii* Kuwah., Nova Hedwigia 34: 784, 1981 (Kuwahara 1981).
- *** *Metzgeria herminieri* Schiffn., Österr. Bot. Z. 61 (7/8): 261, 1911 (Schiffner 1911).
- * *Metzgeria heteroramea* Steph., Biblioth. Bot. 87 (2): 178, 1916 (Stephani 1916a).
- ** *Metzgeria imberbis* J.B.Jack et Steph., Hedwigia 34 (6): 316, 1895 (Jack and Stephani 1895).
- *** *Metzgeria inflata* Steph., Bull. Herb. Boissier 7 (12): 936 (284), 1899 (Stephani 1899g).
- *** *Metzgeria jamesonii* Kuwah., Bryophyt. Biblioth. 28: 157, 1986 (Kuwahara 1986).
- ** *Metzgeria kanaii* Kuwah., Fl. E. Himalaya 2: 240, 1971 (Hattori 1971a).
- *** *Metzgeria kinabaluensis* Masuzaki, Hikobia 16 (1): 59, 2011 (Masuzaki 2011). Based on: *Apometzgeria pubescens* var. *kinabaluensis* Kuwah., J. Hattori Bot. Lab. 28: 166, 1965 (Kuwahara 1965), *nom. inval.*
- ** *Metzgeria kuwaharae* Piippo, Acta Bot. Fenn. 143: 8, 1991 (Piippo 1991).
- ** *Metzgeria laciniata* Kuwah., Bryologist 81 (3): 406, 1978 (Kuwahara 1978).
- *** *Metzgeria lechleri* Steph., Bull. Herb. Boissier 7 (12): 942 (290), 1899 (Stephani 1899g).
- *** *Metzgeria leptoneura* Spruce, Trans. & Proc. Bot. Soc. Edinburgh 15: 555, 1885 (Spruce 1885).
- ** *Metzgeria leptoneura* var. *breviseta* (Schiffn.) O.Yano, J. Hattori Bot. Lab. 56: 532, 1984 (Yano 1984). Bas.: *Metzgeria hamata* var. *breviseta* Schiffn., Österr. Akad. Wiss., Math.-Naturwiss. Kl., Denkschr. 111: 27, 1964 (Schiffner and Arnell 1964).
- ** *Metzgeria leptoneura* var. *polychaeta* R.M.Schust., Phytotaxa 202 (1): 70, 2015 (Söderström et al. 2015c). Based on: *Metzgeria leptoneura* var. *polychaeta* R.M.Schust., J. Hattori Bot. Lab. 70: 150, 1991 (Schuster 1991b), *nom. inval.*
- *** *Metzgeria liebmaniana* Lindenb. et Gottsche, Syn. Hepat. 4: 505, 1846 (Gottsche et al. 1846).
- *** *Metzgeria lindbergii* Schiffn., Denkschr. Kaiserl. Akad. Wiss., Math.-Naturwiss. Kl. 67: 182, 1898 (Schiffner 1898a).
- ** *Metzgeria litoralis* J.J.Engel et Kuwah., Bryologist 76 (2): 293, 1973 (Engel and Kuwahara 1973).

412 *Metzgeria furcata* includes several cryptic species as demonstrated by Fuselier et al. (2009).

- *** *Metzgeria longitexta* Steph., Bull. Herb. Boissier 7 (12): 940 (288), 1899 (Stephani 1899g).
- ** *Metzgeria macrospora* Kuwah., J. Hattori Bot. Lab. 32: 17, 1969 (Kuwahara 1969a).
- ** *Metzgeria macveanii* Kuwah., Rev. Bryol. Lichénol. 36 (3/4): 539, 1969 [1970] (Kuwahara 1969b).
- *** *Metzgeria maegdefraui* Kuwah., Hikobia 8 (3/4): 269, 1980 (Kuwahara 1980b).
- ** *Metzgeria magellanica* Schiffn., Leberm., Forschungsr. Gazelle 4 (4): 43, 1890 (Schiffner 1890).
- *** *Metzgeria metaensis* Kuwah., Proc. Kon. Ned. Akad. Wetensch. C 85 (3): 375, 1982 (Kuwahara 1982).
- *** *Metzgeria mexicana* Steph., Sp. Hepat. (Stephani) 6: 55, 1917 (Stephani 1917a).
413
- ** *Metzgeria monoica* Kuwah. et J.J.Engel, Hikobia 8 (3/4): 284, 1980 (Kuwahara 1980a).
- *** *Metzgeria myriopoda* Lindb., Acta Soc. Fauna Fl. Fenn. 1 (2): 22, 1877 (Lindberg 1877b).
- *** *Metzgeria neotropica* Kuwah., Nova Hedwigia 34: 779, 1981 (Kuwahara 1981).
- *** *Metzgeria nudifrons* Steph., Hedwigia 31 (3): 126, 1892 (Stephani 1892d).
- *** *Metzgeria parviinvolutrata* Kuwah., Nova Hedwigia 34: 774, 1981 (Kuwahara 1981).
- ** *Metzgeria patagonica* Steph., Bull. Herb. Boissier 7 (12): 940 (288), 1899 (Stephani 1899g).
- *** *Metzgeria polytricha* Spruce, Trans. & Proc. Bot. Soc. Edinburgh 15: 553, 1885 (Spruce 1885).
- *** *Metzgeria procera* Mitt., Bot. antarct. voy. II (Fl. Nov.-Zel. 2): 166, 1855 (Mitten 1855).
- *** *Metzgeria psilocraspeda* Schiffn., Österr. Akad. Wiss., Math.-Naturwiss. Kl., Denkschr. 111: 25, 1964 (Schiffner and Arnell 1964).
- *** *Metzgeria pubescens* (Schrank) Raddi, Jungermanniogr. Etrusca: 35, 1818 (Raddi 1818a). Bas.: *Jungermannia pubescens* Schrank, Prim. Fl. Salisb.: 231, 1792 (Schrank 1792).
- *** *Metzgeria pulvinata* Steph., Biblioth. Bot. 87 (2): 179, 1916 (Stephani 1916a).
- ** *Metzgeria quadrifaria* Steph., Bull. Herb. Boissier 7 (12): 953 (301), 1899 (Stephani 1899g).
- ** *Metzgeria raoi* S.C.Srivast. et S.Srivast., Phytotaxonomy 4: 83, 2004 (Srivastava and Srivastava 2004).
- ** *Metzgeria rigida* Lindb., Acta Soc. Fauna Fl. Fenn. 1 (2): 43, 1877 (Lindberg 1877b).
- ** *Metzgeria robinsonii* Steph., Sp. Hepat. (Stephani) 6: 60, 1917 (Stephani 1917a).

413 *Metzgeria mexicana* is conspecific with *Metzgeria subundulata* in Schuster (1992b), but it was accepted by Costa (2008).

- ** *Metzgeria roivainenii* Kuwah., J. Hattori Bot. Lab. 40: 516, 1976 (Kuwahara 1976c).
- *** *Metzgeria rufula* Spruce, Trans. & Proc. Bot. Soc. Edinburgh 15: 555, 1885 (Spruce 1885).
- ** *Metzgeria saccata* Mitt., J. Linn. Soc., Bot. 22 (145): 241, 1886 (Mitten 1886a).
- ** *Metzgeria saxbyi* Pearson, Ann. Cryptog. Exot. 4 (2): 70, 1931 (Pearson 1931a).
- ** *Metzgeria scobina* Mitt., J. Linn. Soc., Bot. 22 (145): 243, 1886 (Mitten 1886a).
- *** *Metzgeria scyphigera* A.Evans, Trans. Connecticut Acad. Arts 18 (5): 299, 1914 (Evans 1914c).
- *** *Metzgeria senjoana* Masuzaki, Hikobia 15 (4): 445, 2010 (Masuzaki et al. 2010a).
- ** *Metzgeria setigera* R.M.Schust. ex Crand.-Stotl. et L.Söderstr., Phytotaxa 202 (1): 69, 2015 (Söderström et al. 2015c). Based on: *Metzgeria furcata* var. *setigera* R.M.Schust., J. Hattori Bot. Lab. 70: 149, 1991 (Schuster 1991b), *nom. inval.*
- ** *Metzgeria sikkimensis* S.C.Srivast. et K.K.Rawat, Geophytology 31 (1/2): 71, 2001 [2003] (Srivastava and Rawat 2001).
- * *Metzgeria simplex* Lorb. ex Müll.Frib., Hedwigia 80 (1/2): 115, 1941 (Müller 1941).
- *** *Metzgeria sinuata* Loitl., Diagn. pl. nov.: 25, 1894 (Loitlesberger 1894).
- ** *Metzgeria sparrei* Kuwah., Hikobia 8 (3/4): 278, 1980 (Kuwahara 1980a).
- *** *Metzgeria spindleri* Steph., Biblioth. Bot. 87 (2): 179, 1916 (Stephani 1916a).
- *** *Metzgeria subaneura* Schiffn., Österr. Akad. Wiss., Math.-Naturwiss. Kl., Denkschr. 111: 22, 1964 (Schiffner and Arnell 1964).
- ** *Metzgeria submarginata* M.L.So, New Zealand J. Bot. 40 (2): 201, 2002 (So 2002b).
- ** *Metzgeria subundulata* (Lindb.) Kuwah., Bryologist 86 (3): 276, 1983 [1984] (Kuwahara 1983). Bas.: *Metzgeria furcata* subsp. *subundulata* Lindb., Acta Soc. Fauna Fl. Fenn. 1 (2): 42, 1877 (Lindberg 1877b).
- ** *Metzgeria temperata* Kuwah., J. Hattori Bot. Lab. 40: 219, 1976 (Kuwahara 1976b).
- *** *Metzgeria uncigera* A.Evans, Ann. Bot. (Oxford) 24 (2): 276, 1910 (Evans 1910).
- *** *Metzgeria undulata* Kuwah., Nova Hedwigia 34: 792, 1981 (Kuwahara 1981).
- *** *Metzgeria violacea* (Ach.) Dumort., Recueil Observ. Jungerm.: 26, 1835 (Dumortier 1835). Bas.: *Jungermannia violacea* Ach., Beitr. Naturk. (Weber & Mohr) 1: 77, 1805 (Acharius 1805).
- ** ***Steearella* Kuwah.**, Amer. J. Bot. 60 (6): 602, 1973 (Kuwahara 1973a).
- *** *Steearella lilliana* (Steph.) Kuwah., Bryophyt. Biblioth. 28: 179, 1986 (Kuwahara 1986). Bas.: *Metzgeria lilliana* Steph., Sp. Hepat. (Stephani) 6: 53, 1917 (Stephani 1917a).
- *** *Steearella linearis* (Sw.) Kuwah., Amer. J. Bot. 60 (6): 604, 1973 (Kuwahara 1973a). Bas.: *Jungermannia linearis* Sw., Prodr. (Swartz): 145, 1788 (Swartz 1788).
- ** ***Vandiemenia* Hewson**, J. Hattori Bot. Lab. 52: 163, 1982 (Hewson 1982).
- ** *Vandiemenia ratkowskiana* Hewson, J. Hattori Bot. Lab. 52: 163, 1982 (Hewson 1982).

Pleuroziales Schljakov

*** Pleuroziaceae Müll.Frib.

by B. Thiers

*** ***Pleurozia* Dumort.**, Recueil Observ. Jungerm.: 15, 1835 (Dumortier 1835).** **subg. *Constantifolia* B.M.Thiers**, Bryologist 96 (4): 526, 1993 (Thiers 1993).*** *Pleurozia conchifolia* (Hook. et Arn.) Austin, Bull. Torrey Bot. Club 5 (3): 16, 1874 (Austin 1874). Bas.: *Jungermannia conchifolia* Hook. et Arn., Bot. Beechey Voy. 3: 110, 1832 (Hooker and Arnott 1832).** *Pleurozia conchifolia* var. *papillosa* B.M.Thiers, Bryologist 96 (4): 528, 1993 (Thiers 1993).*** *Pleurozia purpurea* Lindb., Acta Soc. Fauna Fl. Fenn. 1 (2): 27, 1877 (Lindberg 1877b). Based on: *Jungermannia purpurea* Lightf., Fl. Scot. 2: 778, 1777 (Lightfoot 1777), *nom. illeg.*** **subg. *Diversifolia* B.M.Thiers**, Bryologist 96 (4): 531, 1993 (Thiers 1993).*** *Pleurozia acinosa* (Mitt.) Trevis., Mem. Reale Ist. Lombardo Sci. (Ser. 3), C. Sci. Mat. 4 (13): 412, 1877 (Trevisan 1877). Bas.: *Physotium acinosum* Mitt., J. Proc. Linn. Soc., Bot. 5 (18): 102, 1860 [1861] (Mitten 1860c).*** *Pleurozia articulata* (Lindb.) Lindb. et Lackström, Hepat. Scand. Exsicc.: 5 (adnot.), 1874 (Lindberg and Lackström 1874). Bas.: *Physotium articulatum* Lindb., Öfvers. Förh. Finska Vetensk.-Soc. 12 (2): 78, 1870 (Lindberg 1870).*** *Pleurozia caledonica* (Gottsche) Steph., Rev. Bryol. 33 (2): 29 (Paris 1906a). Bas.: *Physotium caledonicum* Gottsche, Hedwigia 25 (2/3): 81, 1886 (Jack 1886).*** *Pleurozia curiosa* B.M.Thiers, Bryologist 96 (4): 537, 1993 (Thiers 1993).*** *Pleurozia heterophylla* Steph. ex Fulford, Mem. New York Bot. Gard. 23: 842, 1972 (Fulford 1972).*** *Pleurozia johannis-winkleri* Herzog, Mitt. Inst. Allg. Bot. Hamburg 7 (3): 195, 1931 (Herzog 1931a).*** *Pleurozia paradoxa* (J.B.Jack) Schiffn., Hepat. (Engl.-Prantl): 115, 1893 (Schiffner 1893b). Bas.: *Physotium paradoxum* J.B.Jack, Hedwigia 25 (2/3): 85, 1886 (Jack 1886).*** *Pleurozia subinflata* (Austin) Austin, Bull. Torrey Bot. Club 5 (3): 16, 1874 (Austin 1874). Bas.: *Physotium subinflatum* Austin, Proc. Acad. Nat. Sci. Philadelphia 21: 224, 1869 (Austin 1869).** **subg. *Pleurozia****** *Pleurozia gigantea* (F.Weber) Lindb., Hepat. Scand. Exsicc.: no. 5, 1874 (Lindberg and Lackström 1874). Bas.: *Jungermannia gigantea* F.Weber, Hist. Musc. Hepat. Prodr.: 57, 1815 (Weber 1815).

Incertae sedis

- ** *Pleurozia pocsii* Frank Müll., Polish Bot. J. 58 (1): 50, 2013 (Müller 2013).

Pelliidae He-Nygrén, Juslén, Ahonen, Glenny et Piippo

Fossombroniales Schljakov

Calyculariineae He-Nygrén, Juslén, Ahonen, Glenny et Piippo

*** Calyculariaceae He-Nygrén, Juslén, Ahonen, Glenny et Piippo

- *** *Calycularia* Mitt., J. Proc. Linn. Soc., Bot. 5 (18): 122, 1860 [1861] (Mitten 1860c).

- *** *Calycularia crispula* Mitt., J. Proc. Linn. Soc., Bot. 5 (18): 122, 1860 [1861] (Mitten 1860c).

- *** *Calycularia laxa* Lindb. et Arnell, Kongl. Svenska Vetensk.-Akad. Handl. (n.ser.) 23 (5): 66, 1889 (Lindberg and Arnell 1889).

Fossombroniineae R.M.Schust. ex Stotler et Crand.-Stotl.

** Allisoniaceae Schljakov

- *** *Allisonia* Herzog, Hedwigia 80 (1/2): 77, 1941 (Herzog 1941a).

- *** *Allisonia cockaynei* (K.I.Goebel) R.M.Schust., J. Hattori Bot. Lab. 26: 294, 1963 (Schuster 1963b). Bas.: *Moerckia cockaynei* K.I.Goebel, Flora 96: 190, 1906 (Goebel 1906).

*** Fossombroniaceae Hazsl. *nom. conserv.*

by R. Stotler, B. J. Crandall-Stotler and D. C. Cargill

- *** *Fossombronia* Raddi, Jungermannogr. Etrusca: 29, 1818 (Raddi 1818a).

- *** *Fossombronia alaskana* Steere et Inoue, Bryologist 77 (1): 66, 1974 (Steere and Inoue 1974).

- *** *Fossombronia alata* G.A.M.Scott et D.C.Pike, J. Hattori Bot. Lab. 56: 340, 1984 (Scott and Pike 1984).

- *** *Fossombronia altilamellosa* G.A.M.Scott et D.C.Pike, Fl. Austral. Suppl. 21: 114, 2003 (McCarthy 2003). Based on: *Fossombronia altilamellosa* G.A.M.Scott et D.C.Pike, J. Hattori Bot. Lab. 62: 367, 1987 (Scott and Pike 1987), *nom. inval.*

- *** *Fossombronia angulifolia* Perold, Bothalia 28 (2): 159, 1998 (Perold 1998b).

- *** *Fossombronia angulosa* (Dicks.) Raddi, Jungermannogr. Etrusca: 29, 1818 (Raddi 1818a). Bas.: *Jungermannia angulosa* Dicks., Fasc. Pl. Crypt. Brit. 1: 7, 1785 (Dickson 1785).

- ** *Fossombronina areolata* G.A.M.Scott et D.C.Pike, J. Hattori Bot. Lab. 62: 368, 1987 (Scott and Pike 1987).
- ** *Fossombronina auricolor* G.A.M.Scott et D.C.Pike, Fl. Austral. Suppl. 21: 114, 2003 (McCarthy 2003). Based on: *Fossombronina auricolor* G.A.M.Scott et D.C.Pike, J. Hattori Bot. Lab. 62: 370, 1987 (Scott and Pike 1987), *nom. inval.*
- *** *Fossombronina australis* Mitt., J. Linn. Soc., Bot. 15 (82): 73, 1876 (Mitten 1876a).
- *** *Fossombronina caespitififormis* (Raddi) De Not. ex Rabenh., Hepat. Eur., Leberm. 13–14: no. 123, 1860 [1861] (Rabenhorst 1860). Bas.: *Fossombronina angulosa* var. *caespitififormis* Raddi, Jungermanniogr. Etrusca: 30, 1818 (Raddi 1818a).
- *** *Fossombronina caespitififormis* subsp. *multispira* (Schiffn.) J.R.Bray et Cargill, Bryologist 106 (1): 131, 2003 (Stotler et al. 2003). Bas.: *Fossombronina caespitififormis* var. *multispira* Schiffn., Österr. Bot. Z. 67 (4/5): 152, 1918 (Schiffner 1918).
- *** *Fossombronina caledonica* Steph., Sp. Hepat. (Stephani) 6: 71, 1917 (Stephani 1917a).
- *** *Fossombronina cederbergensis* Perold, Bothalia 28 (1): 1, 1998 (Perold 1998c).
- *** *Fossombronina cerebriiformis* G.A.M.Scott et D.C.Pike, J. Hattori Bot. Lab. 56: 343, 1984 (Scott and Pike 1984).
- *** *Fossombronina crassifolia* Spruce, Trans. & Proc. Bot. Soc. Edinburgh 15: 527, 1885 (Spruce 1885).
- *** *Fossombronina crispa* Nees, Syn. Hepat. 4: 469, 1846 (Gottsche et al. 1846).
- * *Fossombronina crispula* (Brot.) R.M.Schust., Hepat. Anthocerotae N. Amer. 5: 383, 1992 (Schuster 1992b). Bas.: *Jungermannia crispula* Brot., Fl. lusit. 2: 422, 1804 [1805] (Brotero 1804).⁴¹⁴
- *** *Fossombronina cristula* Austin, Proc. Acad. Nat. Sci. Philadelphia 21: 228, 1869 (Austin 1869).
- *** *Fossombronina cultriformis* G.A.M.Scott et D.C.Pike, J. Hattori Bot. Lab. 62: 371, 1987 (Scott and Pike 1987).
- *** *Fossombronina densa* G.A.M.Scott et D.C.Pike, J. Hattori Bot. Lab. 62: 372, 1987 (Scott and Pike 1987).
- *** *Fossombronina densilamellata* S.W.Arnell, Bot. Not. 105: 317, 1952 (Arnell 1952a).
- *** *Fossombronina echinata* Macvicar, Rev. Bryol. 38 (4): 73, 1911 (Macvicar 1911).
- *** *Fossombronina elsieae* Perold, Bothalia 29 (1): 25, 1999 (Perold 1999c).
- *** *Fossombronina fernandeziensis* Steph., Kungl. Svenska Vetensk.-Akad. Handl. (n. ser.) 46 (9): 15, 1911 (Stephani 1911b).
- *** *Fossombronina fimbriata* Paton, J. Bryol. 8 (1): 1, 1974 (Paton 1974).
- *** *Fossombronina fleischeri* Osterwald ex Loeske, Verh. Bot. Vereins Prov. Brandenburg 70: 125, 1928 (Loeske 1928).
- *** *Fossombronina foveolata* Lindb., Helsingf. Dagbl. 1873 (353, 28 Dec): 2, 1873 (Lindberg 1873b).
- ** *Fossombronina fuhreri* G.A.M.Scott et D.C.Pike, J. Hattori Bot. Lab. 62: 374, 1987 (Scott and Pike 1987).

⁴¹⁴ *Fossombronina crispula* is based on the description most likely *Fossombronina pusilla*, but no material has been found.

- *** *Fossombronina gemmifera* Perold, *Bothalia* 27 (1): 19, 1997 (Perold 1997a).
- *** *Fossombronina glenii* Perold, *Bothalia* 27 (1): 20, 1997 (Perold 1997a).
- ** *Fossombronina grandis* Steph., *Mém. Herb. Boissier* 16: 29 (383), 1900 (Stephani 1900a).
- * *Fossombronina gregaria* Colenso, *Trans. & Proc. New Zealand Inst.* 20: 252, 1888 (Colenso 1888).⁴¹⁵
- * *Fossombronina grossepapillata* Steph., *J. & Proc. Roy. Soc. New South Wales* 48 (1/2): 105, 1914 (Stephani and Watts 1914).⁴¹⁶
- *** *Fossombronina hamatohirta* Steph., *Hedwigia* 33 (1): 8, 1894 (Stephani 1894a).
- ** *Fossombronina hewsoniae* G.A.M.Scott et D.C.Pike, *J. Hattori Bot. Lab.* 62: 375, 1987 (Scott and Pike 1987).
- *** *Fossombronina himalayensis* Kashyap, *New Phytol.* 14 (1): 4, 1915 (Kashyap 1915).
- *** *Fossombronina hyalorbiza* Perold, *Bothalia* 29 (1): 83, 1999 (Perold 1999d).
- *** *Fossombronina incurva* Lindb., *Helsingf. Dagbl.* 1873 (273, 7 Oct): 2, 1873 (Lindberg 1873c).
- *** *Fossombronina indica* Steph., *Sp. Hepat.* (Stephani) 6: 73, 1917 (Stephani 1917a).
- * *Fossombronina integerrima* Steph., *Mém. Herb. Boissier* 16: 40 (394), 1900 (Stephani 1900a).⁴¹⁷
- * *Fossombronina integrifolia* Steph., *Sp. Hepat.* (Stephani) 6: 73, 1917 (Stephani 1917a).⁴¹⁸
- *** *Fossombronina intestinalis* Taylor, *London J. Bot.* 5: 408, 1846 (Taylor 1846b).
- *** *Fossombronina japonica* Schiffn., *Österr. Bot. Z.* 49 (11): 389, 1899 (Schiffner 1899c).
- ** *Fossombronina laciniata* G.A.M.Scott et D.C.Pike, *J. Hattori Bot. Lab.* 62: 375, 1987 (Scott and Pike 1987).
- *** *Fossombronina lamellata* Steph., *Hedwigia* 33 (1): 9, 1894 (Stephani 1894a).
- *** *Fossombronina leucoxantha* (Lehm.) Lehm. et Lindenb., *Syn. Hepat.* 4: 469, 1846 (Gottsche et al. 1846). *Bas.: Jungermannia leucoxantha* Lehm., *Linnaea* 4: 368, 1829 (Lehmann 1829).
- *** *Fossombronina longiseta* (Austin) Austin, *Hepat. bor.-amer.*: 30, 1873 (Austin 1873). *Bas.: Androcryphia longiseta* Austin, *Proc. Acad. Nat. Sci. Philadelphia* 21: 228, 1869 (Austin 1869).
- *** *Fossombronina lophoclada* Spruce, *Trans. & Proc. Bot. Soc. Edinburgh* 15: 529, 1885 (Spruce 1885).
- ** *Fossombronina lophoscypha* Hässel, *Beih. Nova Hedwigia* 131: 16, 2007 (Hässel and Villagrán 2007).
- *** *Fossombronina luetzelburgiana* K.I.Goebel, *Flora* 105: 55, 1912 (Goebel 1912).
- *** *Fossombronina macrocalyx* Steph., *Sp. Hepat.* (Stephani) 6: 74, 1917 (Stephani 1917a).

415 *Fossombronina gregaria* is possibly conspecific with *Fossombronina australis* (Scott and Pike 1988b).

416 *Fossombronina grossepapillata* may be conspecific with *Fossombronina papillata*, but the type specimen is too immature to allow determination (Scott and Pike 1984).

417 *Fossombronina integerrima* is possibly conspecific with *Fossombronina australis*.

418 *Fossombronina integrifolia* is possibly conspecific with *Fossombronina foveolata* (Scott and Pike 1984).

- * *Fossombronia macrophylla* Colenso, Trans. & Proc. New Zealand Inst. 18: 285, 1886 (Colenso 1886a).
- ** *Fossombronia magnaspora* G.A.M.Scott et D.C.Pike, Fl. Austral. Suppl. 21: 114, 2003 (McCarthy 2003). Based on: *Fossombronia magnaspora* G.A.M.Scott et D.C.Pike, J. Hattori Bot. Lab. 62: 377, 1987 (Scott and Pike 1987), *nom. inval.*
- *** *Fossombronia marindae* Perold, Bothalia 29 (1): 86, 1999 (Perold 1999d).
- ** *Fossombronia maritima* (Paton) Paton, J. Bryol. 18 (2): 367, 1994 (Paton 1994). Bas.: *Fossombronia pusilla* var. *maritima* Paton, J. Bryol. 7 (3): 244, 1973 (Paton 1973).
- *** *Fossombronia marshii* J.R.Bray et Stotler, Phytologia 92 (2): 230, 2010 (Stotler et al. 2010).
- ** *Fossombronia microlamellata* G.A.M.Scott et D.C.Pike, J. Hattori Bot. Lab. 56: 347, 1984 (Scott and Pike 1984).
- *** *Fossombronia mittenii* Tind., J. Bot. 36: 44, 1898 (Tindall 1898).
- *** *Fossombronia montaguensis* S.W.Arnell, Bot. Not. 105: 316, 1952 (Arnell 1952a).
- *** *Fossombronia monticola* Perold, Bothalia 29 (1): 87, 1999 (Perold 1999d).
- *** *Fossombronia mylioides* Inoue, J. Hattori Bot. Lab. 37: 296, 1973 (Inoue 1973).
- * *Fossombronia nigricaulis* Colenso, Trans. & Proc. New Zealand Inst. 18: 248, 1886 (Colenso 1886b).⁴¹⁹
- ** *Fossombronia nyikaensis* Perold, Bothalia 31 (1): 48, 2001 (Perold 2001c).
- *** *Fossombronia papillata* Steph., Hedwigia 28 (3): 157, 1889 (Stephani 1889d).
- *** *Fossombronia paranapanemae* Schiffn., Österr. Akad. Wiss., Math.-Naturwiss. Kl., Denkschr. 111: 34, 1964 (Schiffner and Arnell 1964).
- *** *Fossombronia peruviana* Gottsche et Hampe, Linnaea 27 (5): 555, 1854 (Hampe 1854).
- *** *Fossombronia porphyrorhiza* (Nees) Prosk., Bryologist 58 (3): 197, 1955 (Proskauer 1955). Bas.: *Jungermannia porphyrorhiza* Nees, Fl. Bras. (Martius) 1 (1): 343, 1833 (Nees 1833a).
- ** *Fossombronia pulvinata* Steph., Wiss. Ergebn. Deut. Zentr.-Afr. Exped. (1907–08), Bot. 2: 113, 1911 (Stephani 1911a).
- *** *Fossombronia punctata* G.A.M.Scott et D.C.Pike, J. Hattori Bot. Lab. 56: 341, 1984 (Scott and Pike 1984).
- *** *Fossombronia purpureospora* G.A.M.Scott et D.C.Pike, Fl. Austral. Suppl. 21: 114, 2003 (McCarthy 2003). Based on: *Fossombronia purpureospora* G.A.M.Scott et D.C.Pike, J. Hattori Bot. Lab. 62: 379, 1987 (Scott and Pike 1987), *nom. inval.*
- *** *Fossombronia pusilla* (L.) Nees, Naturgesch. Eur. Leberm. 3: 319, 1838 (Nees 1838b). Bas.: *Jungermannia pusilla* L., Sp. Pl. 1: 1136, 1753 (Linnaeus 1753).
- *** *Fossombronia renateae* Perold, Bothalia 29 (1): 77, 1999 (Perold 1999b).
- *** *Fossombronia reticulata* Steph., Hedwigia 33 (1): 9, 1894 (Stephani 1894a).

419 *Fossombronia nigricaulis* is possibly conspecific with *Fossombronia australis* (Scott and Pike 1984).

- * *Fossombronia rosulata* Colenso, Trans. & Proc. New Zealand Inst. 18: 248, 1886 (Colenso 1886b).
- ** *Fossombronia rudis* G.A.M.Scott et D.C.Pike, Beih. Nova Hedwigia 90: 110, 1988 (Scott and Pike 1988a).
- *** *Fossombronia ruminata* Cargill, Phytotaxa 65: 45, 2012 (Cargill et al. 2012). *Nom. nov. pro Fossombronia maritima* G.A.M.Scott et D.C.Pike, Fl. Austral. Suppl. 21: 114, 2003 (McCarthy 2003), *nom. illeg.*
- ** *Fossombronia rupestris* G.A.M.Scott et D.C.Pike, Fl. Austral. Suppl. 21: 114, 2003 (McCarthy 2003). Based on: *Fossombronia rupestris* G.A.M.Scott et D.C.Pike, J. Hattori Bot. Lab. 62: 381, 1987 (Scott and Pike 1987), *nom. inval.*
- *** *Fossombronia rwandaensis* Perold, Bothalia 28 (1): 45, 1998 (Perold 1998a).
- *** *Fossombronia scrobiculata* G.A.M.Scott et D.C.Pike, J. Hattori Bot. Lab. 56: 341, 1984 (Scott and Pike 1984).
- *** *Fossombronia spinifolia* Steph., Mém. Herb. Boissier 16: 35 (389), 1900 (Stephani 1900a).
- * *Fossombronia spinosa* Perold, Bothalia 29 (1): 29, 1999 (Perold 1999c).
- *** *Fossombronia stephanii* Schiffn. ex Steph., Mém. Herb. Boissier 16: 27 (381), 1900 (Stephani 1900a).
- *** *Fossombronia straussiana* Perold, Bothalia 27 (1): 24, 1997 (Perold 1997a).
- * *Fossombronia subsaccata* Steph., Sp. Hepat. (Stephani) 6: 75, 1917 (Stephani 1917a).⁴²⁰
- *** *Fossombronia swaziensis* Perold, Bothalia 28 (2): 162, 1998 (Perold 1998b).
- ** *Fossombronia tessellata* G.A.M.Scott et D.C.Pike, J. Hattori Bot. Lab. 62: 382, 1987 (Scott and Pike 1987).
- *** *Fossombronia texana* Lindb., Acta Soc. Sci. Fenn. 10: 533, 1875 (Lindberg 1875).
- *** *Fossombronia truncata* G.A.M.Scott et D.C.Pike, Fl. Austral. Suppl. 21: 114, 2003 (McCarthy 2003). Based on: *Fossombronia truncata* G.A.M.Scott et D.C.Pike, J. Hattori Bot. Lab. 62: 383, 1987 (Scott and Pike 1987), *nom. inval.*
- *** *Fossombronia tumida* Mitt., J. Linn. Soc., Bot. 16 (91): 193, 1877 (Mitten 1877).
- ** *Fossombronia valparaisiana* Hässel, Beih. Nova Hedwigia 131: 14, 2007 (Hässel and Villagrán 2007).
- ** *Fossombronia vermiculata* G.A.M.Scott et D.C.Pike, J. Hattori Bot. Lab. 56: 345, 1984 (Scott and Pike 1984).
- *** *Fossombronia wattsii* Steph., Sp. Hepat. (Stephani) 6: 75, 1917 (Stephani 1917a).
- *** *Fossombronia wondraczekii* (Corda) Dumort. ex Lindb., Helsingf. Dagbl. 1873 (273, 7 Oct): 2, 1873 (Lindberg 1873c). Bas.: *Jungermannia wondraczekii* Corda, Deutschl. Fl. (Sturm), Abt. 2, Cryptog.: 30, 1830 (Corda 1830).
- *** *Fossombronia wrightii* Austin, Bot. Bull. (Hanover) 1 (8): 36, 1876 (Austin 1876a).
- ** *Fossombronia zuurbergensis* Perold, Bothalia 31 (1): 25, 2001 (Perold 2001b).

⁴²⁰ *Fossombronia subsaccata* has a sterile and unidentifiable type specimen (Scott and Pike 1988b).

*** Petalophyllaceae Stotler et Crand.-Stotl.

by R. Stotler and B.J. Crandall-Stotler

*** *Petalophyllum* Nees et Gottsche, Nov. Stirp. Pug. 8: 29, 1844 (Lehmann 1844).

*** *Petalophyllum americanum* C.H.Ford et Crand.-Stotl., Novon 12 (3): 335, 2002 (Crandall-Stotler et al. 2002).

*** *Petalophyllum hodgsoniae* C.H.Ford et Crand.-Stotl., Novon 12 (3): 336, 2002 (Crandall-Stotler et al. 2002).

*** *Petalophyllum indicum* Kashyap, J. Indian Bot. Soc. 7: 14, 1928 (Kashyap 1928).

*** *Petalophyllum preissii* Gottsche, Nov. Stirp. Pug. 8: 30, 1844 (Lehmann 1844).

*** *Petalophyllum ralfsii* (Wilson) Nees et Gottsche, Nov. Stirp. Pug. 8: 30, 1844 (Lehmann 1844). Bas.: *Jungermannia ralfsii* Wilson, Suppl. Engl. Bot. 4: tab. 2874, 1849 (Borrer et al. 1849).

*** *Sewardiella* Kashyap, New Phytol. 14 (1): 5, 1915 (Kashyap 1915).

*** *Sewardiella tuberifera* Kashyap, New Phytol. 14 (1): 5, 1915 (Kashyap 1915).
Makinoiineae He-Nygrén, Juslén, Ahonen, Glenny et Piippo

*** Makinoaceae Nakai

by R. Stotler and B.J. Crandall-Stotler

*** *Makinoa* Miyake, Bot. Mag. (Tokyo) 13 (144): 23, 1899 (Miyake 1899).

*** *Makinoa crispata* (Steph.) Miyake, Bot. Mag. (Tokyo) 13 (144): 23, 1899 (Miyake 1899).
Bas.: *Pellia crispata* Steph., Bull. Herb. Boissier 5 (2): 103, 1897 (Stephani 1897b).

Pallaviciniales W.Frey et M.Stech

Pallaviciniineae R.M.Schust.

*** Hymenophytaceae R.M.Schust.

by R. Stotler and B.J. Crandall-Stotler

*** *Hymenophyton* Dumort., Recueil Observ. Jungerm.: 25, 1835 (Dumortier 1835).

*** *Hymenophyton flabellatum* (Labill.) Dumort. ex Trevis., Mem. Reale Ist. Lombardo Sci. (Ser. 3), C. Sci. Mat. 4 (13): 430, 1877 (Trevisan 1877). Bas.: *Jungermannia flabellata* Labill., Nov. Holl. Pl. 2: 109, 1806 (Labillardière 1806).

*** *Hymenophyton leptopodum* (Hook.f. et Taylor) A.Evans, Trans. Connecticut Acad. Arts 8 (16): 274, 1893 (Evans 1893). Bas.: *Jungermannia leptopoda* Hook.f. et Taylor, London J. Bot. 3: 571, 1844 (Hooker and Taylor 1844d).

*** *Hymenophyton pedicellatum* Steph., Kungl. Svenska Vetensk.-Akad. Handl. (n. ser.) 46 (9): 11, 1911 (Stephani 1911b).

*** **Moerckiaceae K.I.Goebel ex Stotler et Crand.-Stotl.**

by B.J. Crandall-Stotler and R. Stotler

Mamontov et al. (2015) showed that the family Moerckiaceae is heterogeneous and they moved *Hattorianthus* and *Moerckia flotoviana* to their new family Cordaeaceae. However, the type of Moerckiaceae (*Moerckia hibernica*) was not included in the study and only provisionally left in *Moerckia*. We prefer to follow Crandall-Stotler & Stotler (2007) until *M. hibernica* is further studied.

*** ***Hattorianthus* R.M.Schust. et Inoue**, Bull. Natl. Sci. Mus. Tokyo, B 1 (3): 103, 1975 (Schuster and Inoue 1975).

*** *Hattorianthus erimonus* (Steph.) R.M.Schust. et Inoue, Bull. Natl. Sci. Mus. Tokyo, B 1 (3): 106, 1975 (Schuster and Inoue 1975). Bas.: *Pallavicinia erimona* Steph., Bull. Herb. Boissier 5 (2): 102, 1897 (Stephani 1897b).

*** ***Moerckia* Gottsche**, Hepat. Eur., Leberm. 13-14: no. 121, 1860 [1861] (Rabenhorst 1860).

*** *Moerckia blyttii* (Mørch) Brockm., Arch. Vereins Freunde Naturgesch. Mecklenburg 17: 190, 1863 (Brockmüller 1863). Bas.: *Jungermannia blyttii* Mørch, Fl. Danica 12: 6, 1830 (Hornemann 1830).

*** *Moerckia flotoviana* (Nees) Schiffn., Österr. Bot. Z. 51 (2): 43, 1901 (Schiffner 1901). Bas.: *Cordaea flotoviana* Nees, Flora 16 (26): 405, 1833 (Nees 1833b).

*** *Moerckia hibernica* (Hook.) Gottsche, Hepat. Eur., Leberm. 13-14: no. 121, 1860 [1861] (Rabenhorst 1860). Bas.: *Jungermannia hibernica* Hook., Brit. Jungermann.: tab. 78, 1816 (Hooker 1816a).

*** **Pallaviciniaceae Mig.**

by R. Stotler and B.J. Crandall-Stotler

✧ **Pallavicinioideae Mig. ex Grolle**

*** ***Jensenia* Lindb.**, Not. Sällsk. Fauna Fl. Fenn. Förh. 9: 13, 1868 (Lindberg 1868a).

*** *Jensenia connivens* (Colenso) Grolle, Rev. Bryol. Lichénol. 33 (1/2): 228, 1964 [1965] (Grolle 1964j). Bas.: *Symphyogyna connivens* Colenso, Trans. & Proc. New Zealand Inst. 20: 254, 1888 (Colenso 1888).

- * *Jensenia crassifrons* (Steph.) S.Schuetete et Stotler, J. Hattori Bot. Lab. 97: 300, 2005 (Schuette and Stotler 2005). Bas.: *Pallavicinia crassifrons* Steph., Mém. Herb. Boissier 11: 21 (325), 1900 (Stephani 1900c).⁴²¹
- *** *Jensenia decipiens* (Mitt.) Grolle, Rev. Bryol. Lichénol. 33 (1/2): 228, 1964 [1965] (Grolle 1964j). Bas.: *Steetzia decipiens* Mitt., J. Proc. Linn. Soc., Bot. 5 (18): 123, 1860 [1861] (Mitten 1860c).
- *** *Jensenia difformis* (Nees) Grolle, Rev. Bryol. Lichénol. 33 (1/2): 228, 1964 [1965] (Grolle 1964j). Bas.: *Jungermannia difformis* Nees, Fl. Bras. (Martius) 1 (1): 329, 1833 (Nees 1833a).
- *** *Jensenia florschuetzii* Gronde, Proc. Kon. Ned. Akad. Wetensch. C 83 (3): 273, 1980 (Van der Gronde 1980).
- *** *Jensenia spinosa* (Lindenb. et Gottsche) Grolle, Acta Bot. Fenn. 133: 65, 1986 (Grolle and Piippo 1986). Bas.: *Symphyogyna spinosa* Lindenb. et Gottsche, Syn. Hepat. 5: 786, 1847 (Gottsche et al. 1847).
- *** *Jensenia wallisii* (J.B.Jack et Steph.) Grolle, Rev. Bryol. Lichénol. 33 (1/2): 228, 1964 [1965] (Grolle 1964j). Bas.: *Pallavicinia wallisii* J.B.Jack et Steph., Hedwigia 31 (1): 23, 1892 (Jack and Stephani 1892).
- *** ***Pallavicinia Gray***, Nat. Arr. Brit. Pl. 1: 775, 1821 (Gray 1821) nom. conserv.
- *** *Pallavicinia ambigua* (Mitt.) Steph., Mém. Herb. Boissier 11: 8 (312), 1900 (Stephani 1900a). Bas.: *Steetzia ambigua* Mitt., J. Proc. Linn. Soc., Bot. 5 (18): 123, 1860 [1861] (Mitten 1860c).
- ** *Pallavicinia baldwinii* (Austin) A.Evans, Trans. Connecticut Acad. Arts 8 (15): 259, 1891 (Evans 1891). Bas.: *Steetzia baldwinii* Austin, Bull. Torrey Bot. Club 6 (52): 303, 1879 (Austin 1879).
- * *Pallavicinia bipinnata* Steph., Sp. Hepat. (Stephani) 6: 62, 1917 (Stephani 1917a).
- ** *Pallavicinia camisassai* Gola, Mem. Reale Accad. Sci. Torino (ser. 2) 65 (1): 4, 1916 (Gola 1916).
- ** *Pallavicinia cylindrica* (Austin) A.Evans, Trans. Connecticut Acad. Arts 8 (15): 259, 1891 (Evans 1891). Bas.: *Steetzia cylindrica* Austin, Bull. Torrey Bot. Club 5 (3): 17, 1874 (Austin 1874).
- ** *Pallavicinia himalayensis* Schiffn., Mém. Herb. Boissier 11: 13 (317), 1900 (Stephani 1900c).
- *** *Pallavicinia indica* Schiffn., Denkschr. Kaiserl. Akad. Wiss., Math.-Naturwiss. Kl. 67: 183, 1898 (Schiffner 1898a).
- *** *Pallavicinia levieri* Schiffn., Denkschr. Kaiserl. Akad. Wiss., Math.-Naturwiss. Kl. 67: 184, 1898 (Schiffner 1898a).
- *** *Pallavicinia lyellii* (Hook.) Gray, Nat. Arr. Brit. Pl. 1: 775, 1821 (Gray 1821). Bas.: *Jungermannia lyellii* Hook., Brit. Jungermann.: tab. 77, 1816 (Hooker 1816a).
- ** *Pallavicinia pilifera* Steph., Hedwigia 30 (6): 271, 1891 (Stephani 1891c).
- ** *Pallavicinia purpurea* Steph., Sp. Hepat. (Stephani) 6: 64, 1917 (Stephani 1917a).

⁴²¹ *Jensenia crassifrons* is possibly conspecific with *Jensenia difformis*.

- ** *Pallavicinia ridleyi* Steph., Sp. Hepat. (Stephani) 6: 64, 1917 (Stephani 1917a).
- *** *Pallavicinia rubristipa* Schiffn., Österr. Bot. Z. 56 (1): 24, 1906 (Schiffner 1906b).
- *** *Pallavicinia subciliata* (Austin) Steph., Mém. Herb. Boissier 11: 9 (313), 1900 (Stephani 1900c). Bas.: *Stetzia subciliata* Austin, Bull. Torrey Bot. Club 6 (52): 303, 1879 (Austin 1879).
- *** *Pallavicinia xiphoides* (Hook.f. et Taylor) Trevis., Mem. Reale Ist. Lombardo Sci. (Ser. 3), C. Sci. Mat. 4 (13): 427, 1877 (Trevisan 1877). Bas.: *Jungermannia xiphoides* Hook.f. et Taylor, London J. Bot. 3: 569, 1844 (Hooker and Taylor 1844d).
- *** ***Podomitrium* Mitt.**, Bot. antarct. voy. II (Fl. Nov.-Zel. 2): 164, 1855 (Mitten 1855).
- *** *Podomitrium malaccense* (Steph.) Campb., Amer. J. Bot. 2 (5): 199, 1915 (Campbell 1915). Bas.: *Hymenophyton malaccense* Steph., Hedwigia 34 (2): 46, 1895 (Stephani 1895c).
- *** *Podomitrium marginatum* (Steph.) Hürl., Bauhinia 4 (1): 78, 1968 [1969] (Hürlimann 1968). Bas.: *Hymenophyton marginatum* Steph., Sp. Hepat. (Stephani) 6: 61, 1917 (Stephani 1917a).
- *** *Podomitrium phyllanthus* (Hook.) Mitt., Bot. antarct. voy. II (Fl. Nov.-Zel. 2): 164, 1855 (Mitten 1855). Bas.: *Jungermannia phyllanthus* Hook., Musci Exot. 1: tab. 95, 1818 (Hooker 1818).
- ✧ **Symphogynoideae R.M.Schust. ex Grolle**
- ** ***Greeneothallus* Hässel**, J. Bryol. 11 (1): 115, 1980 (Hässel 1980).
- *** *Greeneothallus gemmiparus* Hässel, J. Bryol. 11 (1): 115, 1980 (Hässel 1980).
- *** ***Seppeltia* Grolle**, J. Hattori Bot. Lab. 60: 276, 1986 (Grolle and Seppelt 1986).
- *** *Seppeltia succuba* Grolle, J. Hattori Bot. Lab. 60: 276, 1986 (Grolle and Seppelt 1986).
- *** ***Symphyogyna* Nees et Mont.**, Ann. Sci. Nat. Bot. (sér. 2) 5: 66, 1836 (Nees and Montagne 1836).
- *** *Symphyogyna apiculispina* Steph., Biblioth. Bot. 87 (2): 180, 1916 (Stephani 1916a).
- *** *Symphyogyna aspera* Steph. ex F.A.McCormick, Bot. Gaz. 58 (5): 403, 1914 (McCormick 1914).
- ** *Symphyogyna atronervia* Taylor, London J. Bot. 5: 409, 1846 (Taylor 1846b).
- ** *Symphyogyna bogotensis* Steph., Mém. Herb. Boissier 11: 42 (346), 1900 (Stephani 1900c). Based on: *Symphyogyna hymenophyllum* var. *bogotensis* Gottsche, Ann. Sci. Nat. Bot. (sér. 5) 1: 181, 1864 (Gottsche 1864), *nom. inval.*
- * *Symphyogyna boliviensis* Steph., Biblioth. Bot. 87 (2): 180, 1916 (Stephani 1916a).
- *** *Symphyogyna brasiliensis* Nees et Mont., Ann. Sci. Nat. Bot. (sér. 2) 5: 67, 1836 (Nees and Montagne 1836). *Nom. nov. pro Jungermannia brasiliensis* Nees, Enum. Pl. Crypt. Javae: 11, 1830 (Nees 1830), *nom. illeg.*
- ** *Symphyogyna brasiliensis* var. *angustior* (Gottsche, Lindenb. et Nees) Gottsche, Ann. Sci. Nat. Bot. (sér. 5) 1: 183, 1864 (Gottsche 1864). Bas.: *Symphyogyna brasiliensis*

- β *angustior* Gottsche, Lindenb. et Nees, Syn. Hepat. 4: 484, 1846 (Gottsche et al. 1846).
- ** *Symphyogyna brasiliensis* var. *subsINUATA* Schiffn., Österr. Akad. Wiss., Math.-Naturwiss. Kl., Denkschr. 111: 32, 1964 (Schiffner and Arnell 1964).
- *** *Symphyogyna brongniartii* Mont., Ann. Sci. Nat. Bot. (sér. 2) 19: 265, 1843 (Montagne 1843).
- *** *Symphyogyna circinata* Nees et Mont., Ann. Sci. Nat. Bot. (sér. 2) 5: 69, 1836 (Nees and Montagne 1836).
- *** *Symphyogyna digitisquama* Steph., Mém. Herb. Boissier 11: 31 (335), 1900 (Stephani 1900c).
- ** *Symphyogyna fuscovirens* A.Evans, Trans. Connecticut Acad. Arts 28 (6): 320, 1927 (Evans 1927).
- *** *Symphyogyna hochstetteri* Nees et Mont., Ann. Sci. Nat. Bot. (sér. 2) 5: 68, 1836 (Nees and Montagne 1836).
- *** *Symphyogyna hymenophyllum* (Hook.) Nees et Mont., Ann. Sci. Nat. Bot. (sér. 2) 5: 68, 1836 (Nees and Montagne 1836). Bas.: *Jungermannia hymenophyllum* Hook., Musci Exot. 1: tab. 14, 1818 (Hooker 1818).
- ** *Symphyogyna hymenophyllum* var. *heterogenum* Spruce, Trans. & Proc. Bot. Soc. Edinburgh 15: 536, 1885 (Spruce 1885).
- ** *Symphyogyna ignambiensis* Hürl., Bauhinia 4 (1): 79, 1968 [1969] (Hürlimann 1968).
- ** *Symphyogyna interrupta* Carrington et Pearson, Proc. Linn. Soc. New South Wales (ser. 2) 2 (4): 1053, 1888 (Carrington and Pearson 1888a).
- ** *Symphyogyna irregularis* Steph., Mém. Herb. Boissier 11: 29 (333), 1900 (Stephani 1900c).
- ** *Symphyogyna lacerosquama* Steph., Sp. Hepat. (Stephani) 6: 67, 1917 (Stephani 1917a).
- *** *Symphyogyna leptothelia* Taylor, London J. Bot. 5: 408, 1846 (Taylor 1846b).
- ** *Symphyogyna lindmanii* A.Evans, Trans. Connecticut Acad. Arts 28 (6): 316, 1927 (Evans 1927).
- *** *Symphyogyna luetzelburgii* Herzog, Repert. Spec. Nov. Regni Veg. 21 (1/7): 22, 1925 (Herzog 1925a).
- *** *Symphyogyna marginata* Steph., Mém. Herb. Boissier 11: 30 (334), 1900 (Stephani 1900c).
- *** *Symphyogyna mexicana* Steph., Rev. Bryol. 36 (6): 140, 1909 (Stephani 1909b).
- ** *Symphyogyna multiflora* Steph., J. & Proc. Roy. Soc. New South Wales 48 (1/2): 133, 1914 (Stephani and Watts 1914).
- * *Symphyogyna paucidens* Steph., Kungl. Svenska Vetensk.-Akad. Handl. (n.ser.) 46 (9): 13, 1911 (Stephani 1911b).⁴²²
- *** *Symphyogyna podophylla* (Thunb.) Nees et Mont., Flora 29 (9): 135, 1846 (Krauss 1846). Bas.: *Jungermannia podophylla* Thunb., Prodr. Pl. Cap. 2: 174, 1800 (Thunberg 1800).

⁴²² *Symphyogyna paucidens* is a doubtful taxon. Hässel and Rubies (2009) could not find the type specimen.

- * *Symphyogyna purpureolimbata* E.A.Hodgs., Trans. Roy. Soc. New Zealand, Bot. 3 (4): 95, 1965 (Hodgson 1965).
- *** *Symphyogyna rectidens* Grolle, Acta Bot. Fenn. 133: 68, 1986 (Grolle and Piippo 1986).
- ** *Symphyogyna rhodina* (Hook.f. et Taylor) Gottsche, Lindenb. et Nees, Syn. Hepat. 4: 487, 1846 (Gottsche et al. 1846). Bas.: *Jungermannia rhodina* Hook.f. et Taylor, London J. Bot. 4: 93, 1845 (Hooker and Taylor 1845).
- *** *Symphyogyna rubescens* Steph., Mém. Herb. Boissier 11: 29 (333), 1900 (Stephani 1900c).
- *** *Symphyogyna rubritincta* A.Evans, Trans. Connecticut Acad. Arts 27 (1): 38, 1925 (Evans 1925).
- ** *Symphyogyna semi-involucrata* Austin, Bull. Torrey Bot. Club 5 (3): 15, 1874 (Austin 1874).
- ** *Symphyogyna similis* Grolle, Acta Bot. Fenn. 133: 70, 1986 (Grolle and Piippo 1986).
- *** *Symphyogyna sinuata* (Sw.) Nees et Mont., Voy. Amér. Mérid., Bot. 7 (1): 61, 1839 (Montagne 1839b). Bas.: *Jungermannia sinuata* Sw., Prodr. (Swartz): 145, 1788 (Swartz 1788).
- *** *Symphyogyna subsimplex* Mitt., Bot. antarct. voy. II (Fl. Nov.-Zel. 2): 166, 1855 (Mitten 1855).
- *** *Symphyogyna tenuinervis* (Hook.f. et Taylor) Grolle, J. Hattori Bot. Lab. 61: 253, 1986 [1987] (Grolle 1986a). Bas.: *Jungermannia tenuinervis* Hook.f. et Taylor, London J. Bot. 3: 570, 1844 (Hooker and Taylor 1844d).
- *** *Symphyogyna trivittata* Spruce, J. Linn. Soc., Bot. 30 (210): 365, 1895 (Gepp 1895b).
- * *Symphyogyna ulvoides* (Reinw., Blume et Nees) Nees, Syn. Hepat. 4: 487, 1846 (Gottsche et al. 1846). Bas.: *Jungermannia ulvoides* Reinw., Blume et Nees, Nova Acta Phys.-Med. Acad. Caes. Leop.-Carol. Nat. Cur. 12 (1): 196, 1824 [1825] (Reinwardt et al. 1824a).⁴²³
- *** *Symphyogyna undulata* Colenso, Trans. & Proc. New Zealand Inst. 16: 356, 1884 (Colenso 1884).
- ** *Symphyogyna volkensis* Steph., Mém. Herb. Boissier 11: 35 (339), 1900 (Stephani 1900c).
- ** *Symphyogynopsis* Grolle, Acta Bot. Fenn. 133: 72, 1986 (Grolle and Piippo 1986).
- *** *Symphyogynopsis gottscheana* (Mont. et Nees) Grolle, J. Hattori Bot. Lab. 63: 441, 1987 (Grolle 1987). Bas.: *Symphyogyna gottscheana* Mont. et Nees, Syn. Hepat. 4: 484, 1846 (Gottsche et al. 1846).
- ** *Xenothallus* R.M.Schust., J. Hattori Bot. Lab. 26: 293, 1963 (Schuster 1963b).
- *** *Xenothallus vulcanicola* R.M.Schust., J. Hattori Bot. Lab. 26: 293, 1963 (Schuster 1963b).

⁴²³ *Symphyogyna ulvoides* is probably a filmy fern (Schiffner 1900a), but he did not see any type material.

** Sandeothallaceae R.M.Schust.

- ** ***Sandeothallus* R.M.Schust.**, *Nova Hedwigia* 36: 10, 1982 (Schuster 1982).
 ** *Sandeothallus japonicus* (Inoue) Crand.-Stotl. et Stotler, *Beih. Nova Hedwigia* 131: 58, 2007 (Crandall-Stotler and Stotler 2007). Bas.: *Moerckia japonica* Inoue, *Bull. Natl. Sci. Mus. Tokyo*, B 11 (1): 8, 1985 (Inoue 1985).
 ** *Sandeothallus radiculosus* (Schiffn.) R.M.Schust., *Nova Hedwigia* 36: 11, 1982 (Schuster 1982). Bas.: *Moerckia radiculosa* Schiffn., *Österr. Bot. Z.* 51 (2): 48, 1901 (Schiffner 1901).

Phyllothalliineae R.M.Schust.

*** Phyllothalliaceae E.A.Hodgs. ex T.Katag.

- *** ***Phyllothallia* E.A.Hodgs.**, *Trans. Roy. Soc. New Zealand, Bot.* 2 (19): 247, 1964 (Hodgson 1964).
 *** *Phyllothallia fuegiana* R.M.Schust., *Trans. Brit. Bryol. Soc.* 5 (2): 284, 1967 (Schuster 1967d).
 *** *Phyllothallia nivicola* E.A.Hodgs., *Trans. Roy. Soc. New Zealand, Bot.* 2 (19): 247, 1964 (Hodgson 1964).

Pelliales He-Nygrén, Juslén, Ahonen, Glenny et Piippo

*** Noterocladaceae W.Frey et M.Stech

Frey and Stech (2005a) proposed Noterocladaceae as a monogeneric family based on molecular and morphological evidence, which was later corroborated by Crandall-Stotler et al. (2010).

- *** ***Noteroclada* Taylor ex Hook.f. et Wilson**, *London J. Bot.* 3: 166, 1844 (Hooker and Wilson 1844).
 *** *Noteroclada confluens* Taylor, *London J. Bot.* 3: 166, 1844 (Hooker and Wilson 1844).

Excluded from the genus

- * *Noteroclada longiuscula* Colenso, *Trans. & Proc. New Zealand Inst.* 19: 299, 1887 (Colenso 1887).⁴²⁴

⁴²⁴ *Noteroclada longiuscula* is neither a *Noteroclada* nor a *Fossombronia* species. The type specimen could not be found (Crandall-Stotler et al. 2010).

*** **Pelliaceae** H.Klinggr.

Frey and Stech (2005b) recognized Pelliaceae as a monogeneric family, which was later supported by Crandall-Stotler et al. (2010).

** ***Pellia Raddi***, *Jungermannioogr. Etrusca*: 38, 1818 (Raddi 1818a) nom. conserv.

*** **subg. *Apopellia* Grolle**, *J. Bryol.* 12 (3): 427, 1983 (Grolle 1983a).

** *Pellia alpicola* R.M.Schust. ex L.Söderstr., A.Hagborg et von Konrat, *Phytotaxa* 76 (3): 39, 2013 (Söderström et al. 2013d). Based on: *Pellia endiviifolia* subsp. *alpicola* R.M.Schust., *J. Hattori Bot. Lab.* 70: 145, 1991 (Schuster 1991b), *nom. inval.*

*** *Pellia endiviifolia* (Dicks.) Dumort., *Recueil Observ. Jungerm.*: 27, 1835 (Dumortier 1835). Bas.: *Jungermannia endiviifolia* Dicks., *Fasc. Pl. Crypt. Brit.* 4: 19, 1801 (Dickson 1801).

** *Pellia megaspora* R.M.Schust., *J. Bryol.* 11 (3): 419, 1981 (Schuster 1981b).

*** **subg. *Pellia***

** *Pellia appalachiana* R.M.Schust., *Phytotaxa* 76 (3): 39, 2013 (Söderström et al. 2013d). Based on: *Pellia appalachiana* R.M.Schust., *J. Hattori Bot. Lab.* 70: 145, 1991 (Schuster 1991b), *nom. inval.*

*** *Pellia epiphylla* (L.) Corda, *Gen. hepat.*: 654, 1829 (Corda 1829). Bas.: *Jungermannia epiphylla* L., *Sp. Pl.* 1: 1135, 1753 (Linnaeus 1753).

** *Pellia epiphylla* subsp. *borealis* (Lorb.) Messe, *Bull. Soc. Roy. Bot. Belgique* 114 (1): 13, 1981 (Messe 1981). Bas.: *Pellia borealis* Lorb., *Jahrb. Wiss. Bot.* 80: 697, 1934 (Lorbeer 1934).

*** *Pellia neesiana* (Gottsche) Limpr., *Hedwigia* 15 (2): 18, 1876 (Limpricht 1876). Bas.: *Pellia epiphylla* f. *neesiana* Gottsche, *Hedwigia* 6 (5): 69, 1867 (Gottsche 1867).

Incertae sedis

* *Pellia cordaeana* Trevis., *Mem. Reale Ist. Lombardo Sci. (Ser. 3), C. Sci. Mat.* 4 (13): 433, 1877 (Trevisan 1877).

* *Pellia crispa* P.Kumm., *Führer Leberm.*: 60, 1875 (Kummer 1875).

* *Pellia gottscheana* Kreh, *Nova Acta Acad. Caes. Leop.-Carol. German. Nat. Cur.* 90 (4): 237, 1909 (Kreh 1909).

* *Pellia longifolia* P.Kumm., *Führer Leberm.*: 60, 1875 (Kummer 1875).

* *Pellia undulata* P.Kumm., *Führer Leberm.*: 60, 1875 (Kummer 1875).

MARCHANTIOPSIDA Cronquist, Takht. et W.Zimm.
 Blasiidae He-Nygrén, Juslén, Ahonen, Glenny et Piippo
 Blasiales Stotler et Crand.-Stotl.

*** Blasiaceae H.Klinggr.

by L. Söderström

*** *Blasia* L., Sp. Pl. 1: 1138, 1753 (Linnaeus 1753).

*** *Blasia pusilla* L., Sp. Pl. 1: 1138, 1753 (Linnaeus 1753).

*** *Cavicularia* Steph., Bull. Herb. Boissier 5 (2): 87, 1897 (Stephani 1897b).

*** *Cavicularia densa* Steph., Bull. Herb. Boissier 5 (2): 87, 1897 (Stephani 1897b).

Marchantiidae Engl.
 Lunulariales H.Klinggr.

*** Lunulariaceae H.Klinggr.

by D.G. Long

*** *Lunularia* Adans., Fam. Pl. (Adanson) 2: 15, 1763 (Adanson 1763).

*** *Lunularia cruciata* (L.) Dumort. ex Lindb., Not. Sällsk. Fauna Fl. Fenn. Förh. 9: 298, 1868 (Lindberg 1868b). Bas.: *Marchantia cruciata* L., Sp. Pl. 1: 1137, 1753 (Linnaeus 1753).

* *Lunularia cruciata* subsp. *thaxteri* (A.Evans et Herzog) R.M.Schust., Hepat. Anthocerotae N. Amer. 6: 91, 1992 (Schuster 1992d). Bas.: *Lunularia thaxteri* A.Evans et Herzog, Arch. Esc. Fárm. Fac. Ci. Méd. Córdoba 7: 5, 1938 (Herzog and Hosseus 1938).⁴²⁵

Marchantiales Limpr.

*** Aytoniaceae Cavers

by D.G. Long

The genera of Aytoniaceae follow the treatment of Bischler-Causse et al. (2005) with the exception of *Asterella* and *Mannia* which were re-defined by Schill et al. (2010).

⁴²⁵ *Lunularia cruciata* subsp. *thaxteri* was synonymized with subsp. *cruciata* by Boisselier-Dubayle et al. (1995), but their subsp. *thaxteri* specimen was identified with some doubt and originated far from the known range.

- *** *Asterella* P.Beauv., Dict. Sci. Nat. [F. Cuvier] 3: 257, 1805 (Palisot de Beauvois 1805a) nom. conserv. ⁴²⁶
- ** subg. *Asterella*
- ** sect. *Asterella*
- *** *Asterella tenella* (L.) P.Beauv., Dict. Sci. Nat. [F. Cuvier] 3: 258, 1805 (Palisot de Beauvois 1805a). Bas.: *Marchantia tenella* L., Sp. Pl. 1: 1137, 1753 (Linnaeus 1753).
- ** sect. *Brachyblepharis* (Nees) D.G.Long, J. Bryol. 22 (2): 113, 2000 (Grolle and Long 2000). Bas.: *Fimbraria* subg. *Brachyblepharis* Nees, Syn. Hepat. 4: 569, 1846 (Gottsche et al. 1846).
- *** *Asterella abyssinica* (Gottsche) Grolle, Explor. Hydrobiol. Lac Bangweolo Luapula: 170, 1972 (Vanden Berghen 1972b). Bas.: *Fimbraria abyssinica* Gottsche, Syn. Hepat. 4: 569, 1846 (Gottsche et al. 1846).
- *** *Asterella africana* (Mont.) Underw. ex A.Evans, Contr. U.S. Natl. Herb. 20: 250, 1920 (Evans 1920). Bas.: *Fimbraria africana* Mont., Hist. Nat. Îles Canaries 3 (2): 61, 1840 (Montagne 1840b).
- *** *Asterella blumeana* (Nees) Kachroo, J. Gauhati India Univ. 3: 130, 1952 (Kachroo 1952). Bas.: *Fimbraria blumeana* Nees, Syn. Hepat. 4: 564, 1846 (Gottsche et al. 1846).
- *** *Asterella chilensis* (Nees et Mont.) A.Evans, Bull. Torrey Bot. Club 46 (12): 469, 1919 (Evans 1919b). Bas.: *Fimbraria chilensis* Nees et Mont., Ann. Sci. Nat. Bot. (sér. 2) 9: 41, 1838 (Montagne 1838).
- *** *Asterella cruciata* (Steph.) Horik., Hikobia 1 (2): 79, 1951 (Horikawa 1951c). Bas.: *Fimbraria cruciata* Steph., Sp. Hepat. (Stephani) 6: 12, 1917 (Stephani 1917a).
- *** *Asterella dissoluta* (Steph.) Grolle, Wiss. Z. Friedrich-Schiller-Univ. Jena, Math.-Naturwiss. Reihe 38 (2): 237, 1989 (Grolle 1989b). Bas.: *Fimbraria dissoluta* Steph., Pflanzenw. Ost-Afrikas C: 62, 1895 (Stephani 1895d).
- *** *Asterella dominicensis* S.W.Arnell, Bryologist 61 (2): 140, 1958 (Arnell 1958c).
- *** *Asterella khasyana* (Griff.) Grolle, Khumbu Himal 1 (4): 267, 1966 (Grolle 1966k). Bas.: *Octokepos khasyanus* Griff., Not. pl. asiat. 2: 343, 1849 (Griffith 1849).
- *** *Asterella leptophylla* (Mont.) Grolle, Feddes Repert. 87 (3/4): 246, 1976 (Grolle 1976a). Bas.: *Fimbraria leptophylla* Mont., Ann. Sci. Nat. Bot. (sér. 2) 18: 16, 1842 (Montagne 1842b).
- *** *Asterella limbata* D.G.Long et Grolle, J. Bryol. 18 (2): 287, 1994 (Long and Grolle 1994).
- ** *Asterella shimizuana* Inoue, Bull. Natl. Sci. Mus. Tokyo (n.ser.) 10 (3): 361, 1967 (Inoue 1967b). ⁴²⁷

⁴²⁶ *Asterella* includes *Fimbraria* and *Hypenantron*, but a few taxa have neither been transferred nor synonymized. They are listed in the “Names in genera not currently accepted” section below.

⁴²⁷ *Asterella shimizuana* is conspecific with *Asterella khasyana* in Grolle and Piippo (1984), but it was accepted by Long (2006).

- *** *Asterella tenera* (Mitt.) R.M.Schust., J. Hattori Bot. Lab. 26: 298, 1963 (Schuster 1963b). Bas.: *Fimbraria tenera* Mitt., Bot. antarct. voy. II (Fl. Nov.-Zel. 2): 170, 1855 (Mitten 1855).
- * *Asterella tenerrima* (Steph.) H.A.Mill., Phytologia 47 (4): 320, 1981 (Miller 1981). Bas.: *Fimbraria tenerrima* Steph., Sp. Hepat. (Stephani) 6: 17, 1917 (Stephani 1917a).⁴²⁸
- *** *Asterella venosa* (Lehm. et Lindenb.) A.Evans, Contr. U.S. Natl. Herb. 20: 286, 1920 (Evans 1920). Bas.: *Fimbraria venosa* Lehm. et Lindenb., Nov. Stirp. Pug. 4: 29, 1832 (Lehmann 1832).
- ** **subg. *Phragmoblepharis* Grolle**, Feddes Repert. 87 (3/4): 246, 1976 (Grolle 1976a).
- *** *Asterella australis* (Hook.f. et Taylor) Verd., Ann. Bryol. 5: 126, 1932 (Verdoorn 1932c). Bas.: *Fimbraria australis* Hook.f. et Taylor, London J. Bot. 3: 573, 1844 (Hooker and Taylor 1844d).
- *** *Asterella bachmannii* (Steph.) S.W.Arnell, Hepat. South Africa: 62, 1963 (Arnell 1963b). Bas.: *Fimbraria bachmannii* Steph., Hedwigia 33 (1): 7, 1894 (Stephani 1894a).
- *** *Asterella bolanderi* (Austin) Underw., Bot. Gaz. 20 (2): 61, 1895 (Underwood 1895). Bas.: *Fimbraria bolanderi* Austin, Proc. Acad. Nat. Sci. Philadelphia 21: 230, 1869 (Austin 1869).
- * *Asterella caucasica* (Steph.) H.Buch, A.Evans et Verd., Ann. Bryol. 10: 8, 1937 [1938] (Buch et al. 1937). Bas.: *Fimbraria caucasica* Steph., Bull. Herb. Boissier 7 (3): 206 (132), 1899 (Stephani 1899b).⁴²⁹
- *** *Asterella conocephala* (Steph.) R.M.Schust., J. Hattori Bot. Lab. 26: 298, 1963 (Schuster 1963b). Bas.: *Fimbraria conocephala* Steph., Bull. Herb. Boissier 7 (3): 205 (131), 1899 (Stephani 1899b).
- ** *Asterella coronata* (Steph.) H.A.Mill., Phytologia 47 (4): 319, 1981 (Miller 1981). Bas.: *Fimbraria coronata* Steph., Sp. Hepat. (Stephani) 6: 12, 1917 (Stephani 1917a).
- ** *Asterella dioica* (Steph.) H.A.Mill., Phytologia 47 (4): 319, 1981 (Miller 1981). Bas.: *Fimbraria dioica* Steph., J. & Proc. Roy. Soc. New South Wales 48 (1/2): 104, 1914 (Stephani and Watts 1914).
- * *Asterella dognyensis* H.A.Mill., Phytologia 47 (4): 319, 1981 (Miller 1981). *Nom. nov. pro Fimbraria umbonata* Steph., Sp. Hepat. (Stephani) 6: 17, 1917 (Stephani 1917a), *nom. illeg.*⁴³⁰
- *** *Asterella drummondii* (Taylor) R.M.Schust. ex D.G.Long, J. Bryol. 21 (1): 76, 1999 (Long 1999b). Bas.: *Fimbraria drummondii* Taylor, London J. Bot. 5: 412, 1846 (Taylor 1846b).
- *** *Asterella echinella* (Gottsche) Underw., Bot. Gaz. 20 (2): 62, 1895 (Underwood 1895). Bas.: *Fimbraria echinella* Gottsche, Mexik. Leverm.: 271, 1863 (Gottsche 1863).

428 *Asterella tenerrima* is probably conspecific with *Asterella tenera*.

429 *Asterella caucasica* is probably conspecific with *Asterella whiteleggeana* (Grolle 1975c, Scott and Bradshaw 1985).

430 *Asterella dognyensis* is possibly conspecific with *Asterella heteroflora*.

- *** *Asterella elegans* (Spreng.) Trevis., Rendiconti Reale Ist. Lombardo Sci. (ser. 2) 7: 785, 1874 (Trevisan 1874). Bas.: *Fimbraria elegans* Spreng. Syst. Veg. (ed. 16) [Sprengel] 4 (1): 235, 1827 (Sprengel 1827a).
- *** *Asterella heteroflora* (Steph.) H.A.Mill., Phytologia 47 (4): 320, 1981 (Miller 1981). Bas.: *Fimbraria heteroflora* Steph., Sp. Hepat. (Stephani) 6: 14, 1917 (Stephani 1917a).
- *** *Asterella innovans* (Austin) H.A.Mill., Ark. Bot. (n.ser.) 5 (2): 529, 1963 (Miller 1963). Bas.: *Marchantia innovans* Austin, Bull. Torrey Bot. Club 5 (3): 14, 1874 (Austin 1874).
- *** *Asterella lateralis* M.Howe, Bull. Torrey Bot. Club 25 (4): 189, 1898 (Howe 1898b).
- *** *Asterella lindenbergiana* (Corda ex Nees) Lindb. ex Arnell, Lebermoosstud. nördl. Norwegen: 2, 1892 (Arnell 1892). Bas.: *Fimbraria lindenbergiana* Corda ex Nees, Naturgesch. Eur. Leberm. 4: 266, 1838 (Nees 1838a).
- *** *Asterella linearis* (Steph.) M.Howe, Bull. Torrey Bot. Club 25 (4): 191, 1898 (Howe 1898b). Bas.: *Fimbraria linearis* Steph., Bot. Jahrb. Syst. 20 (3): 302, 1895 (Stephani 1895a).
- *** *Asterella longebarbata* (Steph.) H.A.Mill., Phytologia 47 (4): 320, 1981 (Miller 1981). Bas.: *Fimbraria longebarbata* Steph., Hedwigia 28 (3): 156, 1889 (Stephani 1889d).
- *** *Asterella macropoda* (Spruce) A.Evans, Bull. Torrey Bot. Club 46 (12): 472, 1919 (Evans 1919b). Bas.: *Fimbraria macropoda* Spruce, Trans. & Proc. Bot. Soc. Edinburgh 15: 564, 1885 (Spruce 1885).
- *** *Asterella marginata* (Nees) S.W.Arnell, Hepat. South Africa: 63, 1963 (Arnell 1963b). Bas.: *Fimbraria marginata* Nees, Horae Phys. Berol.: 44, 1820 (Nees 1820).
- ** *Asterella muelleri* (Gottsche) R.M.Schust., J. Hattori Bot. Lab. 26: 298, 1963 (Schuster 1963b). Bas.: *Fimbraria muelleri* Gottsche, Bull. Herb. Boissier 7 (3): 203 (129), 1899 (Stephani 1899b).
- *** *Asterella multiflora* (Steph.) Kachroo, J. Hattori Bot. Lab. 19: 3, 1958 (Kachroo 1958). Bas.: *Fimbraria multiflora* Steph., Bull. Herb. Boissier 7 (3): 198 (124), 1899 (Stephani 1899b).
- *** *Asterella mussuriensis* (Kashyap) Verd., Ann. Bryol. 8: 156, 1935 (Verdoorn 1935). Bas.: *Fimbraria mussuriensis* Kashyap, J. Bombay Nat. Hist. Soc. 24 (2): 345, 1916 (Kashyap 1916).
- *** *Asterella mussuriensis* subsp. *crassa* (Shimizu et S.Hatt.) D.G.Long, Lindbergia 26 (1): 44, 2001 (Long 2001). Bas.: *Asterella crassa* Shimizu et S.Hatt., J. Hattori Bot. Lab. 8: 48, 1952 (Shimizu and Hattori 1952).
- *** *Asterella pappii* (Gola) Grolle, Feddes Repert. 87 (3/4): 246, 1976 (Grolle 1976a). Bas.: *Fimbraria pappii* Gola, Ann. Bot. (Rome) 13 (1): 65, 1914 (Gola 1914a).
- *** *Asterella persica* (Steph.) M.Howe, Bull. Torrey Bot. Club 25 (4): 191, 1898 (Howe 1898b). Bas.: *Fimbraria persica* Steph., Hedwigia 33 (1): 7, 1894 (Stephani 1894a).

- * *Asterella preussii* (Schiffn.) M.Howe, Bull. Torrey Bot. Club 25 (4): 191, 1898 (Howe 1898b). Bas.: *Fimbraria preussii* Schiffn., Bot. Jahrb. Syst. 20 (3): 303, 1895 (Stephani 1895a).⁴³¹
- ** *Asterella setisquama* (Steph.) R.M.Schust., J. Hattori Bot. Lab. 26: 298, 1963 (Schuster 1963b). Bas.: *Fimbraria setisquama* Steph., Hedwigia 28 (3): 156, 1889 (Stephani 1889d).
- *** *Asterella syngenesica* (Bory) Grolle, Lindbergia 2 (3/4): 230, 1974 (Grolle and Onraedt 1974). Bas.: *Marchantia syngenesica* Bory, Voy. îles Afrique 2: 95, 1804 (Bory 1804).
- ** *Asterella tasmanica* (Steph.) R.M.Schust., J. Hattori Bot. Lab. 26: 298, 1963 (Schuster 1963b). Bas.: *Fimbraria tasmanica* Steph., Bull. Herb. Boissier 7 (3): 206 (132), 1899 (Stephani 1899b).
- *** *Asterella versicolor* A.Evans, Contr. U.S. Natl. Herb. 20: 307, 1920 (Evans 1920).
- *** *Asterella vulcanica* (Schiffn.) Kachroo et Bapna, J. Indian Bot. Soc. 56 (1): 75, 1977 (Kachroo et al. 1977). Bas.: *Hypenantron vulcanicum* Schiffn., Denkschr. Kaiserl. Akad. Wiss., Math.-Naturwiss. Kl. 67: 155, 1898 (Schiffner 1898a).
- *** *Asterella whiteleggeana* (Steph.) R.M.Schust., J. Hattori Bot. Lab. 26: 298, 1963 (Schuster 1963b). Bas.: *Fimbraria whiteleggeana* Steph., Hedwigia 28 (3): 155, 1889 (Stephani 1889d).
- *** *Asterella wilmsii* (Steph.) S.W.Arnell, Hepat. South Africa: 62, 1963 (Arnell 1963b). Bas.: *Fimbraria wilmsii* Steph., Hedwigia 31 (3): 122, 1892 (Stephani 1892d).
- ** **subg. *Saccatae* (Grolle) D.G.Long**, J. Bryol. 22 (2): 113, 2000 (Grolle and Long 2000). Bas.: *Asterella* subg. *Phragmoblepharis* sect. *Saccatae* Grolle, Feddes Repert. 87 (3/4): 346, 1976 (Grolle 1976a).
- *** *Asterella alpina* (Steph.) D.G.Long, J. Hattori Bot. Lab. 93: 9, 2003 (Gradstein et al. 2003). Bas.: *Fimbraria alpina* Steph., Bull. Herb. Boissier 7 (3): 211 (137), 1899 (Stephani 1899b).
- *** *Asterella grollei* D.G.Long, Bryologist 102 (2): 169, 1999 (Long 1999a).
- *** *Asterella muscicola* (Steph.) S.W.Arnell, Mitt. Bot. Staatssamml. München 2 (16): 263, 1957 (Arnell 1957c). Bas.: *Fimbraria muscicola* Steph., Hedwigia 31 (3): 121, 1892 (Stephani 1892d).
- *** *Asterella palmeri* (Austin) Underw., Bot. Gaz. 20 (2): 63, 1895 (Underwood 1895). Bas.: *Fimbraria palmeri* Austin, Bull. Torrey Bot. Club 6 (7): 47, 1875 (Austin 1875c).
- *** *Asterella pringlei* Underw., Bot. Gaz. 20 (2): 64, 1895 (Underwood 1895).
- *** *Asterella rugosa* A.Evans, Contr. U.S. Natl. Herb. 20: 289, 1920 (Evans 1920).
- *** *Asterella saccata* (Wahlenb.) A.Evans, Contr. U.S. Natl. Herb. 20: 276, 1920 (Evans 1920). Bas.: *Marchantia saccata* Wahlenb., Mag. Neuesten Entdeck. Gesammten Naturk. Ges. Naturf. Freunde Berlin 5: 296, 1811 (Wahlenberg 1811).

⁴³¹ *Asterella preussii* was provisionally placed in synonymy with *Asterella bachmannii* (Wigginton and Grolle 1996).

- ** **subg. *Wallichianae* D.G.Long**, *Lindbergia* 26 (1): 43, 2001 (Long 2001).
- ** **sect. *Californicae* D.G.Long**, *J. Hattori Bot. Lab.* 97: 257, 2005 (Long 2005).
- *** *Asterella californica* (Hampe ex Austin) Underw., *Bot. Gaz.* 20 (2): 60, 1895 (Underwood 1895). Bas.: *Fimbraria californica* Hampe ex Austin, *Hepat. bor.-amer.*: 33, 1873 (Austin 1873).
- ** **sect. *Wallichianae* D.G.Long**, *Phytotaxa* 173 (1): 87, 2014 (Long et al. 2014).
- *** *Asterella wallichiana* (Lehm. et Lindenb.) Grolle, *Khumbu Himal* 1 (4): 262, 1966 (Grolle 1966k). Bas.: *Fimbraria wallichiana* Lehm. et Lindenb., *Nov. Stirp. Pug.* 4: 4, 1832 (Lehmann 1832).
- ** ***Cryptomitrium* Austin ex Underw.**, *Bull. Illinois State Lab. Nat. Hist.* 2 (1): 36, 1884 (Underwood 1884).
- *** *Cryptomitrium himalayense* Kashyap, *New Phytol.* 14 (1): 2, 1915 (Kashyap 1915).
- *** *Cryptomitrium oreades* Perold, *Bothalia* 24 (2): 149, 1994 (Perold 1994).
- *** *Cryptomitrium tenerum* (Hook.) Austin ex Underw., *Bull. Illinois State Lab. Nat. Hist.* 2 (1): 36, 1884 (Underwood 1884). Bas.: *Marchantia tenera* Hook., *Syn. Pl.* (Kunth) 1: 45, 1822 (Kunth 1822).
- *** ***Mannia* Corda**, *Gen. hepat.*: 646, 1829 (Corda 1829) nom. conserv.
- ** **subg. *Mannia***
- *** *Mannia androgyna* (L.) A.Evans, *Chron. Bot.* 4: 224, 1938 (Evans 1938a). Bas.: *Marchantia androgyna* L., *Sp. Pl.* 1: 1138, 1753 (Linnaeus 1753).
- *** *Mannia californica* (Gottsche) L.C.Wheeler, *Bryologist* 37 (5): 88, 1934 [1935] (Wheeler 1934). Bas.: *Grimaldia californica* Underw., *Bot. Gaz.* 13 (5): 114, 1888 (Underwood 1888).
- *** *Mannia controversa* (Meyl.) D.B.Schill, *Edinburgh J. Bot.* 65 (1): 36, 2008 (Schill et al. 2008). Bas.: *Grimaldia controversa* Meyl., *Beitr. Kryptogamenfl. Schweiz* 6 (4): 87, 1924 (Meylan 1924).
- *** *Mannia controversa* subsp. *asiatica* D.B.Schill et D.G.Long, *Edinburgh J. Bot.* 65 (1): 45, 2008 (Schill et al. 2008).
- *** *Mannia fragrans* (Balb.) Frye et L.Clark, *Univ. Wash. Publ. Biol.* 6 (1): 62, 1937 (Frye and Clark 1937). Bas.: *Marchantia fragrans* Balb., *Mem. Acad. Sci. Turin, Sci. Phys.* 15: 76, 1804 (Balbis 1804).
- ** *Mannia fragrans* subsp. *orientalis* R.M.Schust., *Hepat. Anthocerotae N. Amer.* 6: 201, 1992 (Schuster 1992d). *Nom. nov. pro Mannia barbifrons* Shimizu et S.Hatt., *J. Hattori Bot. Lab.* 10: 49, 1953 (Shimizu and Hattori 1953b).
- * *Mannia perssonii* Udar et V.Chandra, *Canad. J. Bot.* 43 (1): 150, 1965 (Udar and Chandra 1965).⁴³²

⁴³² *Mannia perssonii* is possibly conspecific with *Mannia sibirica*.

- *** *Mannia sibirica* (Müll.Frib.) Frye et L.Clark, Univ. Wash. Publ. Biol. 6 (1): 66, 1937 (Frye and Clark 1937). Bas.: *Grimaldia pilosa* var. *sibirica* Müll.Frib., Lebermoose 1 (5): 265, 1907 (Müller 1907a).
- ** **subg. *Neesiella* (Schiffn.) D.B.Schill et D.G.Long**, Bryologist 113 (1): 175, 2010 (Schill et al. 2010). Bas.: *Neesiella* Schiffn., Hepat. (Engl.-Prantl): 32, 1893 (Schiffner 1893b).
- *** *Mannia gracilis* (F.Weber) D.B.Schill et D.G.Long, Bryologist 113 (1): 173, 2010 (Schill et al. 2010). Bas.: *Marchantia gracilis* F.Weber, Hist. Musc. Hepat. Prodr.: 105, 1815 (Weber 1815).
- * *Mannia hegewaldii* Bischl., Fl. Neotrop. Monogr. 97: 184, 2005 (Bischler-Causse et al. 2005).⁴³³
- *** *Mannia pilosa* (Hornem.) Frye et L.Clark, Univ. Wash. Publ. Biol. 6 (1): 64, 1937 (Frye and Clark 1937). Bas.: *Marchantia pilosa* Hornem., Fl. Danica 8 (24): 7, tab. 1426, 1810 (Hornemann 1810).
- *** *Mannia triandra* (Scop.) Grolle, J. Bryol. 8 (4): 487, 1975 (Grolle 1975d). Bas.: *Marchantia triandra* Scop., Fl. Carniol. (ed. 2) 2: 354, 1772 (Scopoli 1772).

Incertae sedis

- * *Mannia paradoxa* R.M.Schust., Phytologia 57 (6): 410, 1985 (Schuster 1985b).⁴³⁴
- *** ***Plagiochasma* Lehm.**, Nov. Stirp. Pug. 4: 13, 1832 (Lehmann 1832) nom. conserv.
- * *Plagiochasma megacarpum* (Griff.) Steph., Bull. Herb. Boissier 6 (10): 789 (86), 1898 (Stephani 1898c). Bas.: *Antrocephalus megacarpum* Griff., Not. pl. asiat. 2: 338, 1849 (Griffith 1849).⁴³⁵
- ** **subg. *Micropylum* Bischl.**, Rev. Bryol. Lichénol. 43 (1): 103, 1977 (Bischler 1977).
- *** *Plagiochasma rupestre* (J.R.Forst. et G.Forst.) Steph., Bull. Herb. Boissier 6 (10): 783 (80), 1898 (Stephani 1898c). Bas.: *Aytonia rupestris* J.R.Forst. et G.Forst., Char. gen. pl., ed. 2: 148, 1776 (Forster and Forster 1776).
- *** *Plagiochasma rupestre* var. *volkii* Bischl., Rev. Bryol. Lichénol. 44 (3): 289, 1978 (Bischler 1978).
- ** **subg. *Plagiochasma***
- *** *Plagiochasma appendiculatum* Lehm. et Lindenb., Nov. Stirp. Pug. 4: 14, 1832 (Lehmann 1832).
- *** *Plagiochasma argentinum* Bischl., Rev. Bryol. Lichénol. 45 (3): 301, 1979 (Bischler 1979a).

433 *Mannia hegewaldii* is possibly conspecific with *Mannia triandra*.

434 *Mannia paradoxa* is possibly a *Reboulia* species.

435 *Plagiochasma megacarpum* may not be a *Plagiochasma* species. Bischler (1979b) could not find any specimen and did not know where to refer it.

- *** *Plagiochasma beccarianum* Steph., Bull. Herb. Boissier 6 (10): 781 (78), 1898 (Stephani 1898c).
- *** *Plagiochasma cordatum* Lehm. et Lindenb., Nov. Stirp. Pug. 4: 13, 1832 (Lehmann 1832).
- *** *Plagiochasma crenulatum* Gottsche, Mexik. Leverm.: 266, 1863 (Gottsche 1863).
- *** *Plagiochasma cuneatum* A.Evans, Amer. J. Bot. 19 (7): 627, 1932 (Evans 1932a).
- *** *Plagiochasma eximium* (Schiffn.) Steph., Bull. Herb. Boissier 6 (10): 781 (78), 1898 (Stephani 1898c). Bas.: *Aytonia eximia* Schiffn., Bot. Jahrb. Syst. 20 (3): 300, 1895 (Stephani 1895a).
- *** *Plagiochasma intermedium* Lindenb. et Gottsche, Syn. Hepat. 4: 513, 1846 (Gottsche et al. 1846).
- *** *Plagiochasma jamaicense* (Haynes) A.Evans, Bull. Torrey Bot. Club 42 (5): 292, 1915 (Evans 1915). Bas.: *Aytonia jamaicensis* Haynes, Bull. Torrey Bot. Club 34 (2): 58, 1907 (Haynes 1907).
- *** *Plagiochasma japonicum* (Steph.) C.Massal., Hepat. Shen-si: 47, 1897 (Massalongo 1897). Bas.: *Aytonia japonica* Steph., Bull. Herb. Boissier 5 (2): 84, 1897 (Stephani 1897b).
- *** *Plagiochasma landii* A.Evans, Bull. Torrey Bot. Club 42 (5): 298, 1915 (Evans 1915).
- *** *Plagiochasma microcephalum* (Steph.) Steph., Bull. Herb. Boissier 6 (10): 781 (78), 1898 (Stephani 1898c). Bas.: *Aytonia microcephala* Steph., Bot. Jahrb. Syst. 20 (3): 301, 1895 (Stephani 1895a).
- *** *Plagiochasma microcephalum* var. *tunesicum* Bischl., Rev. Bryol. Lichénol. 44 (3): 247, 1978 (Bischler 1978).
- *** *Plagiochasma muenchianum* Steph., Sp. Hepat. (Stephani) 6: 9, 1917 (Stephani 1917a).
- *** *Plagiochasma pterospermum* C.Massal., Hepat. Shen-si: 46, 1897 (Massalongo 1897).
- *** *Plagiochasma wrightii* Sull., Musc. Hepat. U.S.: 688, 1856 (Sullivant 1856).

Incertae sedis

- ** *Plagiochasma udarii* A.Alam et S.C.Srivast., Indian J. Forest. 32 (4): 631, 2009 (Alam and Srivastava 2009).
- *** ***Reboulia Raddi***, Opusc. Sci. 2 (6): 357, 1818 (Raddi 1818b) nom. conserv.
- *** *Reboulia hemisphaerica* (L.) Raddi, Opusc. Sci. 2 (6): 357, 1818 (Raddi 1818b). Bas.: *Marchantia hemisphaerica* L., Sp. Pl. 1: 1138, 1753 (Linnaeus 1753).
- ** *Reboulia hemisphaerica* subsp. *acrogyna* (R.M.Schust.) R.M.Schust., Hepat. Anthocerotae N. Amer. 6: 168, 1992 (Schuster 1992d). Bas.: *Asterella bolanderi* subsp. *acrogyna* R.M.Schust., Phytologia 57 (6): 410, 1985 (Schuster 1985b).
- ** *Reboulia hemisphaerica* subsp. *australis* R.M.Schust., Phytologia 56 (7): 460, 1985 (Schuster 1985c).
- ** *Reboulia hemisphaerica* subsp. *dioica* R.M.Schust., Phytologia 56 (7): 462, 1985 (Schuster 1985c).
- ** *Reboulia hemisphaerica* var. *fissisquama* Herzog, Symb. Sin. 5: 5, 1930 (Nicholson et al. 1930).

- ** *Reboulia hemisphaerica* subsp. *orientalis* R.M.Schust., *Phytologia* 56 (7): 461, 1985 (Schuster 1985c).
- ** *Reboulia hemisphaerica* var. *turkestanica* C.E.O.Jensen ex Herzog, *Symb. Sin.* 5: 5, 1930 (Nicholson et al. 1930).

*** Cleveaceae Cavers

by D.G. Long

The genera of Cleveaceae were re-defined by Rubasinghe et al. (2011a) based on molecular evidence.

- *** ***Athalamia* Falc.**, *Ann. Mag. Nat. Hist. (ser. 2)* 1 (5): 375, 1848 (Anonymous 1848).
- * *Athalamia dioica* Kashyap, *J. Bombay Nat. Hist. Soc.* 24 (2): 348, 1916 (Kashyap 1916).
- *** *Athalamia pinguis* Falc., *Ann. Mag. Nat. Hist. (ser. 2)* 1 (5): 375, 1848 (Anonymous 1848).
- * *Athalamia pulcherrima* (Steph.) S.Hatt., *J. Hattori Bot. Lab.* 12: 54, 1954 (Shimizu and Hattori 1954). Bas.: *Clevea pulcherrima* Steph., *Bot. Jahrb. Syst.* 20 (3): 303, 1895 (Stephani 1895a).
- *** ***Clevea* Lindb.**, *Not. Sällsk. Fauna Fl. Fenn. Förh.* 9: 289, 1868 (Lindberg 1868b).
- *** *Clevea hyalina* (Sommerf.) Lindb., *Not. Sällsk. Fauna Fl. Fenn. Förh.* 9: 291, 1868 (Lindberg 1868b). Bas.: *Marchantia hyalina* Sommerf., *Mag. Naturvidensk.* 11 (2): 234, 1833 (Sommerfeldt 1833).
- * *Clevea hyalina* var. *californica* M.Howe, *Mem. Torrey Bot. Club* 7: 38, 1899 (Howe 1899).
- * *Clevea pedicellata* (Griff.) Lindb., *Acta Soc. Fauna Fl. Fenn.* 2 (3): 11, 1882 (Lindberg 1882). Bas.: *Plagiochasma pedicellatum* Griff., *Not. pl. asiat.* 2: 331, 1849 (Griffith 1849).
- *** *Clevea pusilla* (Steph.) Rubas. et D.G.Long, *J. Bryol.* 33 (2): 167, 2011 (Rubasinghe et al. 2011b). Bas.: *Gollaniella pusilla* Steph., *Hedwigia* 44 (2): 74, 1905 (Stephani 1905h).
- *** *Clevea spathysii* (Lindenb.) Müll.Frib., *Hedwigia* 79 (1/2): 75, 1940 (Müller 1940). Bas.: *Marchantia spathysii* Lindenb., *Syn. hepat. eur.* 104, 1829 (Lindenberg 1829).
- *** ***Peltolepis* Lindb.**, *Morgonbladet (Helsinki)* 1876 (106, 9 May): 1, 1876 (Elfving 1876).
- ** *Peltolepis japonica* (Shimizu et S.Hatt.) S.Hatt., *J. Hattori Bot. Lab.* 14: 103, 1955 (Shimizu and Hattori 1955). Bas.: *Peltolepis quadrata* var. *japonica* Shimizu et S.Hatt., *J. Hattori Bot. Lab.* 12: 69, 1954 (Shimizu and Hattori 1954).
- *** *Peltolepis quadrata* (Saut.) Müll.Frib., *Hedwigia* 79 (1/2): 74, 1940 (Müller 1940). Bas.: *Sauteria quadrata* Saut., *Flora* 43 (22): 351, 1860 (Sauter 1860).

- *** *Sauteria* Nees, Naturgesch. Eur. Leberm. 4: 139, 1838 (Nees 1838a).
- ** **sect. *Sauchia* (Kashyap) R.M.Schust.**, Phytologia 57 (6): 411, 1985 (Schuster 1985b). Bas.: *Sauchia* Kashyap, J. Bombay Nat. Hist. Soc. 24 (2): 347, 1916 (Kashyap 1916).
- * *Sauteria japonica* (Shimizu et S.Hatt.) S.Hatt., J. Hattori Bot. Lab. 12: 62, 1954 (Shimizu and Hattori 1954). Bas.: *Sauchia japonica* Shimizu et S.Hatt., J. Hattori Bot. Lab. 9: 32, 1953 (Shimizu and Hattori 1953a).⁴³⁶
- *** *Sauteria spongiosa* (Kashyap) S.Hatt., J. Hattori Bot. Lab. 12: 62, 1954 (Shimizu and Hattori 1954). Bas.: *Sauchia spongiosa* Kashyap, J. Bombay Nat. Hist. Soc. 24 (2): 347, 1916 (Kashyap 1916).

** **sect. *Sauteria***

- *** *Sauteria alpina* (Nees) Nees, Naturgesch. Eur. Leberm. 4: 143, 1838 (Nees 1838a). Bas.: *Lunularia alpina* Nees, Flora 13 (25): 399, 1830 (Nees and Bischoff 1830).
- * *Sauteria inflata* C.Gao et K.C.Chang, Acta Bot. Yunnan. 3 (4): 389, 1981 (Gao et al. 1981).⁴³⁷

Incertae sedis

- * *Sauteria chilensis* (Lindenb.) Grolle, J. Hattori Bot. Lab. 58: 200, 1985 (Grolle 1985b). Bas.: *Grimaldia chilensis* Lindenb., Voy. Amér. Mérid. 7 (2): 53, 1839 (Montagne 1839a).
- * *Sauteria crassipes* Austin, Proc. Acad. Nat. Sci. Philadelphia 21: 229, 1869 (Austin 1869).
- * *Sauteria nyikaensis* Perold, Bothalia 33 (2): 167, 2003 (Perold 2003).

*** **Conocephalaceae Müll.Frib. ex Grolle**

by D.G. Long

- *** ***Conocephalum* Hill**, Gener. Nat. Hist. 2 Hist. pl. (ed. 2): 118, 1773 (Hill 1773) nom. conserv.
- ** **subg. *Conocephalum***
- *** *Conocephalum conicum* (L.) Dumort., Commentat. Bot. (Dumortier): 115, 1822 (Dumortier 1822). Bas.: *Marchantia conica* L., Sp. Pl. 1: 1138, 1753 (Linnaeus 1753).
- *** *Conocephalum salebrosum* Szweyk., Buczk. et Odrzyk., Pl. Syst. Evol. 253 (1/4): 146, 2005 (Szweykowski et al. 2005).

⁴³⁶ *Sauteria japonica* is possibly conspecific with *Sauteria spongiosa*.

⁴³⁷ *Sauteria inflata* is possibly conspecific with *Sauteria alpina* (Schuster 1992d).

- ** **subg. *Sandea* (Lindb.) Inoue**, Ill. Jap. Hep. 2: 192, 1976 (Inoue 1976a). Bas.: *Sandea* Lindb., Acta Soc. Fauna Fl. Fenn. 2 (5): 3, 1884 (Lindberg 1884).
- *** *Conocephalum japonicum* (Thunb.) Grolle, J. Hattori Bot. Lab. 55: 501, 1984 (Grolle 1984a). Bas.: *Lichen japonicus* Thunb., Fl. Jap. (Thunberg): 344, 1784 (Thunberg 1784).

** **Corsiniaceae Engl.**

by D.G. Long

** **Corsinioideae Schiffn.**

- *** ***Corsinia* Raddi**, Opusc. Sci. 2 (6): 354, 1818 (Raddi 1818b).
- *** *Corsinia coriandrina* (Spreng.) Lindb., Hepaticol. Utveckl.: 30, 1877 (Lindberg 1877c). Bas.: *Riccia coriandrina* Spreng. Anleit. Kenntn. Gew. 3: 320, 1804 (Sprengel 1804).

*** **Cronisioideae R.M.Schust.**

- *** ***Cronisia* Berk.**, Introd. crypt. bot.: 434, 1857 (Berkeley 1857).
- *** *Cronisia fimbriata* (Nees) Whittm. et Bischl., Cryptog. Bryol. 22 (3): 170, 2001 (Bischler and Whittmore 2001). Bas.: *Riccia fimbriata* Nees, Fl. Bras. (Martius) 1 (1): 301, 1833 (Nees 1833a).
- *** *Cronisia weddellii* (Mont.) Grolle, J. Bryol. 9 (4): 532, 1977 [1978] (Grolle 1977a). Bas.: *Boschia weddellii* Mont., Ann. Sci. Nat. Bot. (sér. 4) 5: 352, 1856 (Montagne 1856c).

*** **Cyathodiaceae Stotler et Crand.-Stotl.**

by D.G. Long

- *** ***Cyathodium* Kunze**, Nov. Stirp. Pug. 6: 17, 1834 (Lehmann 1834).
- *** *Cyathodium aureonitens* (Griff.) Mitten, J. Linn. Soc., Bot. 22 (146): 327 (Mitten 1886b). Bas.: *Synhymenium aureonitens* Griff., Not. pl. asiat. 2: 344, 1849 (Griffith 1849).
- *** *Cyathodium bischlerianum* N.Salazar, Bryologist 104 (1): 141, 2001 (Salazar 2001).
- *** *Cyathodium cavernarum* Kunze, Nov. Stirp. Pug. 6: 18, 1834 (Lehmann 1834).
- ** *Cyathodium denticulatum* Udar et S.C.Srivast., Geophytology 1 (2): 166, 1971 (Udar and Srivastava 1971).

- *** *Cyathodium foetidissimum* Schiffn., Denkschr. Kaiserl. Akad. Wiss., Math.-Naturwiss. Kl. 67: 154, 1898 (Schiffner 1898a).
- *** *Cyathodium indicum* Udar et D.K.Singh, J. Bryol. 10 (2): 139, 1978 [1979] (Udar and Singh 1978).
- *** *Cyathodium mehranum* D.K.Singh, Misc. Bryol. Lichenol. 9 (8): 173, 1983 (Singh 1983b).
- *** *Cyathodium smaragdinum* Schiffn., Ann. Jard. Bot. Buitenzorg, suppl. 3: 480, 1910 (Schiffner 1910c).
- *** *Cyathodium spruceanum* Prosk., Bryologist 54 (4): 243, 1951 [1952] (Proskauer 1951b).
- * *Cyathodium spurium* (Dicks.) Lindb. ex Braithw., J. Bot. 16: 55, 1878 (Braithwaite 1878). Bas.: *Riccia spuria* Dicks., Fasc. Pl. Crypt. Brit. 4: 20, 1801 (Dickson 1801).⁴³⁸
- *** *Cyathodium steerei* Hässel, Rev. Bryol. Lichénol. 30 (3/4): 223, 1961 (Hässel 1961).
- *** *Cyathodium tuberculatum* Udar et D.K.Singh, Bryologist 79 (2): 235, 1976 (Udar and Singh 1976).
- *** *Cyathodium tuberosum* Kashyap, New Phytol. 13 (6/7): 210, 1914 (Kashyap 1914a).

*** Dumortieraceae D.G.Long

by D.G. Long

- *** *Dumortiera* Nees, Nova Acta Phys.-Med. Acad. Caes. Leop.-Carol. Nat. Cur. 12 (1): 410, 1824 [1825] (Reinwardt et al. 1824b).
- *** *Dumortiera hirsuta* (Sw.) Nees, Nova Acta Phys.-Med. Acad. Caes. Leop.-Carol. Nat. Cur. 12 (1): 410, 1824 [1825] (Reinwardt et al. 1824b). Bas.: *Marchantia hirsuta* Sw., Prodr. (Swartz): 145, 1788 (Swartz 1788).⁴³⁹
- * *Dumortiera hirsuta* subsp. *nepalensis* (Taylor) R.M.Schust., Hepat. Anthocerotae N. Amer. 6: 386, 1992 (Schuster 1992d). Bas.: *Hygrophila nepalensis* Taylor, Trans. Linn. Soc. London 17 (3): 392, 1836 (Taylor 1836b).
- * *Dumortiera hirsuta* subsp. *tatunoi* Horik., J. Sci. Hiroshima Univ., Ser. B, Div. 2, Bot. 6: 38, 1951 (Horikawa 1951a).

*** Exormothecaceae Müll.Frib. ex Grolle

by D.G. Long

- *** *Aitchisoniella* Kashyap, New Phytol. 13 (6/7): 219, 1914 (Kashyap 1914a).

⁴³⁸ *Cyathodium spurium* may be conspecific with *Cyathodium cavernarum* (Braithwaite 1878). The type specimen is from Scotland, but it is probably mislabelled as no *Cyathodium* is known from boreal Europe.

⁴³⁹ *Dumortiera hirsuta* is a species complex (Forrest et al. 2011).

*** *Aitchisoniella himalayensis* Kashyap, *New Phytol.* 13 (6/7): 219, 1914 (Kashyap 1914a).

*** ***Exormotheca* Mitt.**, *Nat. hist. Azores*: 325, 1870 (Mitten 1870).

** **subg. *Corbierella* (Douin et Trab.) Schiffn.**, *Hedwigia* 81 (1/2): 71, 1942 (Schiffner 1942). Bas.: *Corbierella* Douin et Trab., *Rev. Gén. Bot.* 31: 326, 1919 (Douin and Trabut 1919).

*** *Exormotheca bischlerae* Furuki et Higuchi, *Cryptog. Bryol.* 27 (1): 98, 2006 (Furuki and Higuchi 2006).

*** *Exormotheca holstii* Steph., *Bull. Herb. Boissier* 7 (3): 219 (145), 1899 (Stephani 1899b).

*** *Exormotheca welwitschii* Steph., *Bull. Herb. Boissier* 7 (3): 220 (146), 1899 (Stephani 1899b).

** **subg. *Exormotheca***

*** *Exormotheca pustulosa* Mitt., *Nat. hist. Azores*: 326, 1870 (Mitten 1870).

Incertae sedis

*** *Exormotheca bulbigena* Bornefeld, O.H.Volk et R.Wolf, *Bothalia* 26 (2): 159, 1996 (Bornefeld et al. 1996).

*** *Exormotheca ceylonensis* Meijer, *J. Hattori Bot. Lab.* 16: 72, 1956 (Meijer 1956).

* *Exormotheca gollanii* Steph., *Sp. Hepat.* (Stephani) 6: 18, 1917 (Stephani 1917a).

*** *Exormotheca tuberifera* Kashyap, *New Phytol.* 13 (9): 309, 1914 (Kashyap 1914b).

*** ***Stephensiella* Kashyap**, *New Phytol.* 13 (9): 312, 1914 (Kashyap 1914b).

*** *Stephensiella brevipedunculata* Kashyap, *New Phytol.* 13 (9): 312, 1914 (Kashyap 1914b).

*** **Marchantiaceae Lindl.**

by D.G. Long

The treatment of Marchantiaceae is mainly following Bischler (1984, 1989b) and Bischler-Causse (1993).

** **Bucegioideae R.M.Schust.**

*** ***Bucegia* Radian**, *Bull. Herb. Inst. Bot. Bucarest* 3–4: 3, 1903 (Radian 1903).

*** *Bucegia romanica* Radian, *Bull. Herb. Inst. Bot. Bucarest* 3–4: 4, 1903 (Radian 1903).

✧ **Marchantioideae Schiffn.**

*** *Marchantia* L., Sp. Pl. 1: 1137, 1753 (Linnaeus 1753).

** **subg. *Chlamidium* (Corda) Bischl.**, Cryptog. Bryol. Lichénol. 3 (4): 362, 1982 (Bischler 1982). Bas.: *Chlamidium* Corda, Gen. hepat.: 647, 1829 (Corda 1829).

*** *Marchantia breviloba* A.Evans, Trans. Connecticut Acad. Arts 21 (3): 265, 1917 (Evans 1917a).

*** *Marchantia inflexa* Nees et Mont., Ann. Sci. Nat. Bot. (sér. 2) 9: 43, 1838 (Montagne 1838).

** **sect. *Chlamidium* (Corda) Nees**, Naturgesch. Eur. Leberm. 4: 101, 1838 (Nees 1838a). Bas.: *Chlamidium* Corda, Gen. hepat.: 647, 1829 (Corda 1829).

*** *Marchantia chenopoda* L., Sp. Pl. 1: 1137, 1753 (Linnaeus 1753).

*** *Marchantia crenata* Austin, Bull. Torrey Bot. Club 5 (3): 14, 1874 (Austin 1874).

*** *Marchantia foliacea* Mitt., Bot. antarct. voy. II (Fl. Nov.-Zel. 2): 168, 1855 (Mitten 1855).

*** *Marchantia formosana* Horik., J. Sci. Hiroshima Univ., Ser. B, Div. 2, Bot. 2: 121, 1934 (Horikawa 1934).

*** *Marchantia globosa* Brid., Hist. Musc. Hepat. Prodr.: 102, 1815 (Weber 1815).

*** *Marchantia hexaptera* Reichardt, Verh. K.K. Zool.-Bot. Ges. Wien 16: 957, 1866 (Reichardt 1866).

*** *Marchantia linearis* Lehm. et Lindenb., Nov. Stirp. Pug. 4: 8, 1832 (Lehmann 1832).

*** *Marchantia miqueliana* Lehm., Nov. Stirp. Pug. 10: 20, 1857 (Lehmann 1857).

*** *Marchantia novoguineensis* Bischl., Bryophyt. Biblioth. 38: 130, 1989 (Bischler 1989b).

*** *Marchantia pappeana* Lehm., Nov. Stirp. Pug. 10: 21, 1857 (Lehmann 1857).

** *Marchantia pappeana* subsp. *robusta* (Steph.) Bischl., Bryophyt. Biblioth. 45: 91, 1993 (Bischler-Causse 1993). Bas.: *Marchantia robusta* Steph., Candollea 14: 111, 1953 (Bonner 1953b).

*** *Marchantia pileata* Mitt., Bot. antarct. voy. II (Fl. Nov.-Zel. 2): 169, 1855 (Mitten 1855).

*** *Marchantia pinnata* Steph., Candollea 14: 109, 1953 (Bonner 1953b).

*** *Marchantia rubribarba* Steph., Bull. Herb. Boissier 7 (5): 400 (172), 1899 (Stephani 1899c).

*** *Marchantia vitiensis* Steph., Bull. Herb. Boissier 7 (7): 520 (182), 1899 (Stephani 1899d).

** **sect. *Paleaceae* Bischl.**, Bryophyt. Biblioth. 38: 90, 1989 (Bischler 1989b).

*** *Marchantia paleacea* Bertol., Opusc. Sci. 1: 242, 1817 (Bertoloni 1817).

*** *Marchantia paleacea* subsp. *diptera* (Nees et Mont.) Inoue, J. Jap. Bot. 64 (7): 194, 1989 (Inoue 1989c). Bas.: *Marchantia diptera* Nees et Mont., Ann. Sci. Nat. Bot. (sér. 2) 19: 243, 1843 (Montagne 1843).

- ** **sect. *Papillatae* Bischl.**, *Cryptog. Bryol. Lichénol.* 10 (1): 69, 1989 (Bischler 1989a).
- *** *Marchantia debilis* K.I.Goebel, *Organogr. Pfl.*, ed. 2, 2 (1): 901, 1915 (Goebel 1915).
- *** *Marchantia emarginata* Reinw., *Blume et Nees, Nova Acta Phys.-Med. Acad. Caes. Leop.-Carol. Nat. Cur.* 12 (1): 192, 1824 [1825] (Reinwardt et al. 1824a).
- *** *Marchantia emarginata* subsp. *lecordiana* (Steph.) Bischl., *Cryptog. Bryol. Lichénol.* 10 (1): 78, 1989 (Bischler 1989a). Bas.: *Marchantia lecordiana* Steph., *Bull. Herb. Boissier* 7 (7): 525 (187), 1899 (Stephani 1899d).
- *** *Marchantia emarginata* subsp. *tosana* (Steph.) Bischl., *Cryptog. Bryol. Lichénol.* 10 (1): 77, 1989 (Bischler 1989a). Bas.: *Marchantia tosana* Steph., *Bull. Herb. Boissier* 5 (2): 99, 1897 (Stephani 1897b).
- *** *Marchantia papillata* Raddi, *Critt. Brasil.*: 20, 1822 (Raddi 1822).
- *** *Marchantia papillata* subsp. *grossibarba* (Steph.) Bischl., *Cryptog. Bryol. Lichénol.* 10 (1): 78, 1989 (Bischler 1989a). Bas.: *Marchantia grossibarba* Steph., *Mém. Soc. Nat. Sci. Nat. Math. Cherbourg* 29: 221, 1894 (Stephani 1894b).
- ** **subg. *Marchantia***
- *** *Marchantia plicata* Nees et Mont., *Ann. Sci. Nat. Bot. (sér. 2)* 9: 43, 1838 (Montagne 1838).
- ** **sect. *Berteroanae* R.M.Schust.**, *Hepat. Anthocerotae N. Amer.* 6: 310, 1992 (Schuster 1992d).
- *** *Marchantia berteroana* Lehm. et Lindenb., *Nov. Stirp. Pug.* 6: 21, 1834 (Lehmann 1834).
- ** **sect. *Marchantia***
- *** *Marchantia polymorpha* L., *Sp. Pl.* 1: 1137, 1753 (Linnaeus 1753).
- *** *Marchantia polymorpha* subsp. *montivagans* Bischl. et Boissel.-Dub., *J. Bryol.* 16 (3): 364, 1991 (Bischler-Causse and Boisselier-Dubayle 1991).
- *** *Marchantia polymorpha* subsp. *ruderalis* Bischl. et Boissel.-Dub., *J. Bryol.* 16 (3): 364, 1991 (Bischler-Causse and Boisselier-Dubayle 1991).
- ** **subg. *Protomarchantia* R.M.Schust.**, *Phytologia* 57 (6): 410, 1985 (Schuster 1985b).
- ** **sect. *Protomarchantia* (R.M.Schust.) L.Söderstr.**, *Phytotaxa* 202 (1): 69, 2015 (Söderström et al. 2015c). Bas.: *Marchantia* subg. *Protomarchantia* R.M.Schust., *Phytologia* 57 (6): 410, 1985 (Schuster 1985b).
- *** *Marchantia acaulis* Steph., *Bull. Herb. Boissier* 7 (7): 533 (195), 1899 (Stephani 1899d).
- *** *Marchantia antiqua* Steph., *Candollea* 14: 103, 1953 (Bonner 1953b).
- *** *Marchantia carrii* Bischl., *Bryophyt. Biblioth.* 38: 256, 1989 (Bischler 1989b).
- *** *Marchantia geminata* Reinw., *Blume et Nees, Nova Acta Phys.-Med. Acad. Caes. Leop.-Carol. Nat. Cur.* 12 (1): 194, 1824 [1825] (Reinwardt et al. 1824a).

- *** *Marchantia hartlessiana* Steph., Candollea 14: 107, 1953 (Bonner 1953b).
- *** *Marchantia macropora* Mitt., Bot. antarct. voy. II (Fl. Nov.-Zel. 2): 169, 1855 (Mitten 1855).
- *** *Marchantia philippinensis* Bischl., Bryophyt. Biblioth. 38: 245, 1989 (Bischler 1989b).
- *** *Marchantia solomonensis* Bischl., Bryophyt. Biblioth. 38: 281, 1989 (Bischler 1989b).
- *** *Marchantia streimannii* Bischl., Bryophyt. Biblioth. 38: 250, 1989 (Bischler 1989b).
- *** *Marchantia subintegra* Mitt., J. Proc. Linn. Soc., Bot. 5 (18): 125, 1860 [1861] (Mitten 1860c).
- *** *Marchantia treubii* Schiffn., Denkschr. Kaiserl. Akad. Wiss., Math.-Naturwiss. Kl. 67: 160, 1898 (Schiffner 1898a).
- *** *Marchantia wallisii* J.B. Jack et Steph., Bull. Herb. Boissier 7 (7): 520 (182), 1899 (Stephani 1899d).
- ** **sect. *Subgeminatae* Bischl.**, Bryophyt. Biblioth. 38: 219, 1989 (Bischler 1989b).
- *** *Marchantia subgeminata* Steph., Bull. Herb. Boissier 7 (7): 530 (192), 1899 (Stephani 1899d).

Incertae sedis

- * *Marchantia assamica* Griff., Not. pl. asiat. 2: 327, 1849 (Griffith 1849).⁴⁴⁰
- * *Marchantia balboi* Gola, Mem. Reale Accad. Sci. Torino (ser. 2) 65 (1): 2, 1916 (Gola 1916).⁴⁴¹
- * *Marchantia balboi* var. *acutisquamata* Gerola, Lav. Bot. Ist. Bot. Univ. Padova 12: 472, 1947 (Gerola 1947).⁴⁴²
- * *Marchantia cagnii* Gola, Ann. Bot. (Rome) 6 (2): 271, 1907 (Gola 1907).⁴⁴³
- * *Marchantia cengiana* Gerola, Lav. Bot. Ist. Bot. Univ. Padova 12: 473, 1947 (Gerola 1947).⁴⁴⁴
- * *Marchantia friedrichsthaliana* Trevis., Mem. Reale Ist. Lombardo Sci. (Ser. 3), C. Sci. Mat. 4 (13): 438, 1877 (Trevisan 1877).
- * *Marchantia keniae* Gola, Mem. Reale Accad. Sci. Torino (ser. 2) 65 (1): 3, 1916 (Gola 1916).⁴⁴⁵
- * *Marchantia papyracea* Gola, Ann. Bot. (Rome) 6 (2): 271, 1907 (Gola 1907).⁴⁴⁶

440 *Marchantia assamica* is a doubtful taxon. Bischler (1989b) could not find the type specimen.

441 *Marchantia balboi* is a doubtful taxon. Bischler-Causse (1993) could not find the type specimen.

442 *Marchantia balboi* var. *acutisquamata* is a doubtful taxon, Bischler-Causse (1993) could not find the type specimen and did not know what it is.

443 *Marchantia cagnii* is a doubtful taxon. Bischler-Causse (1993) could not find the type specimen, but the description points to *Marchantia paleacea*.

444 *Marchantia cengiana* is a doubtful taxon. Bischler-Causse (1993) could not find the type specimen, but the description points to *Marchantia pappeana*.

445 *Marchantia keniae* is a doubtful taxon. Bischler-Causse (1993) could not find the type specimen, but the description points to *Marchantia pappeana*.

446 *Marchantia papyracea* is a doubtful taxon. Bischler-Causse (1993) could not find the type specimen, but the description points to *Marchantia pappeana*.

- * *Marchantia quadriloba* Steph., *Candollea* 14: 110, 1953 (Bonner 1953b).
- * *Marchantia sellae* Gola, *Ann. Bot. (Rome)* 6 (2): 271, 1907 (Gola 1907).⁴⁴⁷
- ** *Marchantia stoloniscyphulus* (C.Gao et K.C.Chang) Piippo, *J. Hattori Bot. Lab.* 68: 134, 1990 (Piippo 1990). Bas.: *Marchantiopsis stoloniscyphulus* C.Gao et K.C.Chang, *Bull. Bot. Res., Harbin* 2 (4): 114, 1982 (Gao and Chang 1982).
- * *Marchantia trilocularis* Roth, *Tent. Fl. Germ.* 1: 487, 1788 (Roth 1788).⁴⁴⁸
- * *Marchantia tusui* Gola, *Mem. Reale Accad. Sci. Torino (ser. 2)* 65 (1): 3, 1916 (Gola 1916).⁴⁴⁹

- ** ***Preissia* Corda**, *Gen. hepat.*: 647, 1829 (Corda 1829).
- *** *Preissia quadrata* (Scop.) Nees, *Naturgesch. Eur. Leberm.* 4: 135, 1838 (Nees 1838a). Bas.: *Marchantia quadrata* Scop., *Fl. Carniol. (ed. 2)* 2: 355, 1772 (Scopoli 1772).
- ** *Preissia quadrata* subsp. *hyperborea* R.M.Schust., *Phytologia* 57 (6): 410, 1985 (Schuster 1985b).

*** Monocleaceae A.B.Frank

by D.G. Long

- *** ***Monoclea* Hook.**, *Musci Exot.* 2: tab. clxxiv, 1820 (Hooker 1820).
- *** *Monoclea forsteri* Hook., *Musci Exot.* 2: tab. clxxiv, 1820 (Hooker 1820).
- *** *Monoclea gottschei* Lindb., *Rev. Bryol.* 13 (6): 102, 1886 (Lindberg 1886).
- *** *Monoclea gottschei* subsp. *elongata* Gradst. et Mues, *Pl. Syst. Evol.* 180 (1/2): 133, 1992 (Gradstein et al. 1992).

*** Monosoleniaceae Inoue

by D.G.Long

- *** ***Monosolenium* Griff.**, *Not. pl. asiat.* 2: 341, 1849 (Griffith 1849).
- *** *Monosolenium tenerum* Griff., *Not. pl. asiat.* 2: 341, 1849 (Griffith 1849).

447 *Marchantia sellae* is a doubtful taxon. Bischler-Causse (1993) could not find the type specimen, but the description points to *Marchantia pappeana* or *Marchantia paleacea*.

448 *Marchantia trilocularis* is a doubtful taxon which Bischler-Causse (1993) could not place. The name may have priority once its identity is determined.

449 *Marchantia tusui* is a doubtful taxon. Bischler-Causse (1993) could not find the type specimen, but the description points to *Marchantia pappeana*.

*** Oxymitraceae Müll.Frib. ex Grolle

by D.G. Long

- *** ***Oxymitra* Bisch. ex Lindenb.**, Syn. hepat. eur: 124, 1829 (Lindenberg 1829).
 *** *Oxymitra cristata* Garside, Bothalia 23 (2): 211, 1993 (Perold 1993). Based on: *Oxymitra cristata* Garside, J. S. African Bot. 24: 83, 1958 (Garside 1958), *nom. inval.*
 *** *Oxymitra incrassata* (Brot.) Sérgio et Sim-Sim, J. Bryol. 15 (4): 662, 1989 (Sérgio and Sim-Sim 1989). Bas.: *Riccia incrassata* Brot., Fl. lusit. 2: 428, 1804 [1805] (Brotero 1804).

*** Ricciaceae Rchb.

by R. Stotler, B.J. Crandall-Stotler and D.C. Cargill

- ** ***Riccia* L.**, Sp. Pl. 1: 1138, 1753 (Linnaeus 1753) *nom. conserv.*
- ** **subg. *Chartaceae* Perold**, Bothalia 16 (1): 29, 1986 (Volk and Perold 1986c).
 *** *Riccia schelpei* O.H.Volk et Perold, Bothalia 16 (1): 29, 1986 (Volk and Perold 1986c).
- ** **subg. *Leptoriccia* R.M.Schust.**, Phytologia 56 (2): 72, 1984 (Schuster 1984).
 *** *Riccia membranacea* Gottsche et Lindenb., Syn. Hepat. 4: 608, 1846 (Gottsche et al. 1846).
- ** **subg. *Riccia***
- *** *Riccia albida* Sull. ex Austin, Proc. Acad. Nat. Sci. Philadelphia 21: 231, 1869 (Austin 1869).
 *** *Riccia albopunctata* Jovet-Ast, Cryptog. Bryol. Lichénol. 12 (3): 237, 1991 (Jovet-Ast 1991).
 *** *Riccia australis* Steph., Bull. Herb. Boissier 6 (4): 337 (29), 1898 (Stephani 1898a).
 *** *Riccia boliviensis* Jovet-Ast, Cryptog. Bryol. Lichénol. 12 (3): 242, 1991 (Jovet-Ast 1991).
 *** *Riccia brasiliensis* Schiffn., Österr. Akad. Wiss., Math.-Naturwiss. Kl., Denkschr. 111: 6, 1964 (Schiffner and Arnell 1964).
 *** *Riccia breutelii* Hampe, Bull. Herb. Boissier 6 (4): 325 (17), 1898 (Stephani 1898a).
 *** *Riccia brittonii* M.Howe, Ann. Missouri Bot. Gard. 2 (1/2): 50, 1915 (Britton 1915).
 * *Riccia chudoana* Steph., Sp. Hepat. (Stephani) 6: 1, 1917 (Stephani 1917a).
 *** *Riccia coracina* Jovet-Ast, Cryptog. Bryol. 24 (3): 212, 2003 (Jovet-Ast 2003).
 *** *Riccia corrugata* Jovet-Ast, Cryptog. Bryol. 21 (4): 308, 2000 (Jovet-Ast 2000).
 *** *Riccia crassivenia* Jovet-Ast, Cryptog. Bryol. 21 (4): 312, 2000 (Jovet-Ast 2000).
 *** *Riccia cubensis* S.W.Arnell, Bryologist 61 (2): 142, 1958 (Arnell 1958c).

- *** *Riccia discolor* Lehm. et Lindenb., Nov. Stirp. Pug. 4: 1, 1832 (Lehmann 1832).
- *** *Riccia ekmanii* S.W.Arnell, Bryologist 61 (2): 143, 1958 (Arnell 1958c).
- *** *Riccia elliottii* Steph., Bull. Herb. Boissier 6 (4): 324 (16), 1898 (Stephani 1898a).
- *** *Riccia enyae* Jovet-Ast, Cryptog. Bryol. Lichénol. 12 (3): 230, 1991 (Jovet-Ast 1991).
- *** *Riccia erythrocarpa* Jovet-Ast, Cryptog. Bryol. Lichénol. 12 (3): 257, 1991 (Jovet-Ast 1991).
- *** *Riccia fruchartii* Steph., Bull. Herb. Boissier 6 (4): 330 (22), 1898 (Stephani 1898a).
- *** *Riccia gangetica* Ahmad ex L.Söderstr., A.Hagborg et von Konrat, Phytotaxa 65: 57, 2012 (Söderström et al. 2012f). Based on: *Riccia gangetica* Ahmad, Curr. Sci. 11 (11): 433, 1942 (Ahmad 1942), *nom. inval.*
- *** *Riccia grandis* Nees, Fl. Bras. (Martius) 1 (1): 300, 1833 (Nees 1833a).
- *** *Riccia helenae* Jovet-Ast, J. Hattori Bot. Lab. 74: 96, 1993 (Jovet-Ast 1993a).
- ** *Riccia hirta* (Austin) Underw., Bot. Gaz. 19 (7): 274, 1894 (Underwood 1894). Bas.: *Riccia arvensis* var. *hirta* Austin, Proc. Acad. Nat. Sci. Philadelphia 21: 232, 1869 (Austin 1869).
- *** *Riccia horrida* Jovet-Ast, Cryptog. Bryol. Lichénol. 12 (3): 226, 1991 (Jovet-Ast 1991).
- *** *Riccia hortorum* Bory, Nova Acta Phys.-Med. Acad. Caes. Leop.-Carol. Nat. Cur. 18 (1): 435, 1836 [1837] (Lindenberg 1836).
- *** *Riccia howellii* M.Howe, Proc. Calif. Acad. Sci. (ser. 4) 21 (17): 202, 1934 (Howe 1934).
- * *Riccia ianthina* Jovet-Ast, Rev. Bryol. Lichénol. 44 (4): 418, 1978 (Jovet-Ast 1978).⁴⁵⁰
- *** *Riccia inflexa* Taylor, London J. Bot. 5: 417, 1846 (Taylor 1846b).
- *** *Riccia iodocheila* M.Howe, Proc. Calif. Acad. Sci. (ser. 4) 21 (17): 200, 1934 (Howe 1934).
- *** *Riccia lanceolata* Steph., Hedwigia 27 (3/4): 110, 1888 (Stephani 1888d).
- *** *Riccia lindmanii* Steph., Bih. Kongl. Svenska Vetensk.-Akad. Handl. 23 (III, 2): 29, 1897 (Stephani 1897a).
- ** *Riccia macallisteri* M.Howe, Bryologist 20 (3): 35, 1917 (Howe 1917).
- *** *Riccia macrospora* Steph., Bull. Herb. Boissier 6 (4): 328 (20), 1898 (Stephani 1898a).
- ** *Riccia mamillata* Trab. ex Steph., Rev. Bryol. 16 (5): 65, 1889 (Stephani 1889b).
- *** *Riccia mauryana* Steph., Bull. Herb. Boissier 6 (4): 327 (19), 1898 (Stephani 1898a).
- *** *Riccia olgensis* Na-Thalang, Brunonia 3 (1): 100, 1980 (Na-Thalang 1980).
- *** *Riccia planobiconvexa* Steph., Bih. Kongl. Svenska Vetensk.-Akad. Handl. 23 (III, 2): 29, 1897 (Stephani 1897a).
- *** *Riccia ridleyi* A.Gepp, J. Linn. Soc., Bot. 27 (181): 74, 1890 (Gepp 1890).
- *** *Riccia sanguineisporis* Jovet-Ast, Cryptog. Bryol. Lichénol. 12 (3): 253, 1991 (Jovet-Ast 1991).
- *** *Riccia squamata* Nees, Fl. Bras. (Martius) 1 (1): 302, 1833 (Nees 1833a).

⁴⁵⁰ *Riccia ianthina* seems identical to glabrous phases of *Riccia atomarginata* (Schuster 1992d). It is related to *Riccia iodocheila* and *Riccia violacea* (Bischler-Causse et al. 2005), but it is only known from the type specimen.

- *** *Riccia subdepilata* Jovet-Ast, Cryptog. Bryol. Lichénol. 12 (3): 228, 1991 (Jovet-Ast 1991).
- *** *Riccia subplana* Steph., Symb. Antill. (Urban) 3 (2): 275, 1902 (Stephani 1902e).
- *** *Riccia taeniiformis* Jovet-Ast, Cryptog. Bryol. Lichénol. 12 (3): 270, 1991 (Jovet-Ast 1991).
- *** *Riccia viannae* Jovet-Ast, Cryptog. Bryol. Lichénol. 12 (3): 261, 1991 (Jovet-Ast 1991).
- *** *Riccia vitalii* Jovet-Ast, Mem. New York Bot. Gard. 45: 285, 1987 (Jovet-Ast 1987).
- *** *Riccia weinionis* Steph., Bull. Herb. Boissier 6 (4): 326 (18), 1898 (Stephani 1898a).
- ** **sect. *Pilifer* O.H.Volk**, Mitt. Bot. Staatssamml. München 19: 455, 1983 (Volk 1983).
- *** *Riccia alatospora* O.H.Volk et Perold, Bothalia 15 (3/4): 534, 1985 (Volk and Perold 1985).
- *** *Riccia albomarginata* Bisch. ex C.Krauss, Flora 29 (9): 135, 1846 (Krauss 1846).
- *** *Riccia albovestita* O.H.Volk, Mitt. Bot. Staatssamml. München 17: 245, 1981 (Volk 1981).
- *** *Riccia ampullacea* Perold, Bothalia 20 (2): 168, 1990 (Perold 1990e).
- *** *Riccia concava* Bisch. ex C.Krauss, Flora 29 (9): 135, 1846 (Krauss 1846).
- *** *Riccia elongata* Perold, Bothalia 20 (2): 167, 1990 (Perold 1990e).
- *** *Riccia furfuracea* Perold, Bothalia 20 (2): 176, 1990 (Perold 1990b).
- *** *Riccia hantamensis* Perold, Bothalia 19 (2): 157, 1989 (Perold 1989b).
- *** *Riccia hirsuta* O.H.Volk et Perold, Bothalia 16 (2): 187, 1986 (Volk and Perold 1986a).
- *** *Riccia namaquensis* Perold, Bothalia 20 (2): 180, 1990 (Perold 1990b).
- *** *Riccia parvoareolata* O.H.Volk et Perold, Bothalia 15 (1/2): 117, 1984 (Volk and Perold 1984).
- *** *Riccia pulveracea* Perold, Bothalia 20 (2): 185, 1990 (Perold 1990c).
- *** *Riccia radicata* Pearson, Natuurw. Tijdschr. 4 (5/6): 142, 1922 (Pearson 1922a).
- *** *Riccia simii* Perold, Bothalia 20 (1): 36, 1990 (Perold 1990a).
- *** *Riccia trachyglossa* Perold, Bothalia 20 (2): 172, 1990 (Perold 1990e).
- *** *Riccia villosa* Steph., Akad. Wiss. Wien, Math.-Naturwiss. Kl., Denkschr. 88: 724, 1913 (Stephani 1913b).
- *** *Riccia vitrea* Perold, Bothalia 20 (2): 178, 1990 (Perold 1990b).
- ** **sect. *Riccia***
- *** *Riccia albolimbata* S.W.Arnell, Mitt. Bot. Staatssamml. München 2 (16): 264, 1957 (Arnell 1957c).
- *** *Riccia alboporosa* Perold, Bothalia 19 (1): 12, 1989 (Perold 1989c).
- *** *Riccia albornata* O.H.Volk et Perold, Bothalia 18 (2): 160, 1988 (Volk et al. 1988).
- *** *Riccia angolensis* Steph., Bull. Herb. Boissier 6 (4): 323 (15), 1898 (Stephani 1898a).
- *** *Riccia argenteolimbata* O.H.Volk et Perold, Bothalia 18 (2): 155, 1988 (Volk et al. 1988).
- ** *Riccia atlantica* Sérgio et Perold, J. Bryol. 17 (1): 127, 1992 (Sérgio and Perold 1992).
- *** *Riccia atromarginata* Levier, Nuovo Giorn. Bot. Ital. 21 (2): 291, 1889 (Martelli 1889).

- ** *Riccia atromarginata* var. *jovet-astiae* Rauh et Buchloh, Rev. Bryol. Lichénol. 30 (1/2): 77, 1961 (Rauh and Buchloh 1961).
- *** *Riccia atropurpurea* Sim, Trans. Roy. Soc. South Africa 15 (1): 11, 1926 (Sim 1926).
- *** *Riccia beyrichiana* Hampe, Nov. Stirp. Pug. 7: 1, 1838 (Lehmann 1838).
- *** *Riccia bicarinata* Lindb., Rev. Bryol. 4 (3): 41, 1877 (Lindberg 1877d).
- *** *Riccia bicolorata* Perold, Bothalia 20 (2): 188, 1990 (Perold 1990c).
- *** *Riccia bifurca* Hoffm., Deutschl. Fl., Theil 2 (Hoffm.): 95, 1795 [1796] (Hoffmann 1795).
- *** *Riccia billardierei* Mont. et Nees, Syn. Hepat. 4: 602, 1846 (Gottsche et al. 1846).
- *** *Riccia breidleri* Jur. ex Steph., Hedwigia 24 (1): 6, 1885 (Stephani 1885e).
- *** *Riccia californica* Austin, Bull. Torrey Bot. Club 6 (7): 46, 1875 (Austin 1875c).
- *** *Riccia campbelliana* M.Howe, Mem. Torrey Bot. Club 7: 26, 1899 (Howe 1899).
- *** *Riccia ciliata* Hoffm., Deutschl. Fl., Theil 2 (Hoffm.): 95, 1795 [1796] (Hoffmann 1795).
- *** *Riccia ciliifera* Link, Syn. hepat. eur: 119, 1829 (Lindenberg 1829).
- * *Riccia congoana* Steph., Bull. Herb. Boissier 6 (4): 328 (20), 1898 (Stephani 1898a).⁴⁵¹
- *** *Riccia crinita* Taylor, London J. Bot. 5: 415, 1846 (Taylor 1846b).
- *** *Riccia crozalsii* Levier, Rev. Bryol. 29 (4): 73, 1902 (Levier 1902).
- * *Riccia crustata* Trab., Bull. Soc. Hist. Nat. Afrique N. 7: 87, 1916 (Trabut 1916).⁴⁵²
- ** *Riccia dictyospora* M.Howe, Bull. Torrey Bot. Club 28 (3): 163, 1901 (Howe 1901a).
- *** *Riccia glauca* L., Sp. Pl. 1: 1139, 1753 (Linnaeus 1753).
- ** *Riccia glauca* var. *ciliaris* Warnst., Verh. Bot. Vereins Prov. Brandenburg 27 (1): 87, 1886 (Warnstorf 1886).
- ** *Riccia gothica* Damsh. et Hallingb., Lindbergia 12 (2/3): 100, 1986 [1987] (Damsholt and Hallingbäck 1986).
- *** *Riccia gougetiana* Durieu et Mont., Ann. Sci. Nat. Bot. (sér. 3) 11: 35, 1849 (Montagne 1849).
- ** *Riccia gougetiana* var. *armatissima* Levier ex Müll.Frib., Lebermoose 1 (3): 161, 1907 (Müller 1907b).
- *** *Riccia lamellosa* Raddi, Opusc. Sci. 2 (6): 351, 1818 (Raddi 1818b).
- *** *Riccia ligula* Steph., Bull. Herb. Boissier 6 (4): 315 (7), 1898 (Stephani 1898a).
- *** *Riccia limbata* Bisch. ex C.Krauss, Flora 29 (9): 135, 1846 (Krauss 1846).
- *** *Riccia macrocarpa* Levier, Bull. Soc. Bot. Ital. 1894: 114, 1894 (Levier 1894).
- *** *Riccia mammifera* O.H.Volk et Perold, Bothalia 16 (2): 176, 1986 (Volk and Perold 1986b).
- *** *Riccia melitensis* C.Massal., Bull. Soc. Bot. Ital. 1913 (2/3): 52, 1913 (Massalongo 1913).
- *** *Riccia michelii* Raddi, Opusc. Sci. 2 (6): 352, 1818 (Raddi 1818b).
- *** *Riccia microciliata* O.H.Volk et Perold, Bothalia 16 (2): 173, 1986 (Volk and Perold 1986b).

⁴⁵¹ *Riccia congoana* is possibly conspecific with *Riccia billardierei* (Perold 1989a).

⁴⁵² *Riccia crustata* may be conspecific with *Riccia albida* (Jovet-Ast 1986).

- *** *Riccia montana* Perold, Bothalia 19 (1): 9, 1989 (Perold 1989c).
- *** *Riccia natalensis* Sim, Trans. Roy. Soc. South Africa 15 (1): 9, 1926 (Sim 1926).
- *** *Riccia nigrella* DC., Fl. Franç. (DC. & Lamarck), 5 (6): 193, 1815 (De Candolle and Lamarck 1815).
- *** *Riccia okahandjana* S.W.Arnell, Mitt. Bot. Staatssamml. München 2 (16): 268, 1957 (Arnell 1957c).
- ** *Riccia ozarkiana* McGregor, Bryologist 63 (1): 30, 1960 (McGregor 1960).
- *** *Riccia papillosa* Moris, Stirp. Sard. Elench.: 18, 1829 (Moris 1829).
- *** *Riccia pottsiana* Sim, Trans. Roy. Soc. South Africa 15 (1): 10, 1926 (Sim 1926).
- *** *Riccia rosea* O.H.Volk et Perold, Bothalia 16 (2): 181, 1986 (Volk and Perold 1986d).
- * *Riccia runssorensis* Steph., Bull. Herb. Boissier 6 (4): 330 (22), 1898 (Stephani 1898a).⁴⁵³
- *** *Riccia sommieri* Levier, Isola Giglio: 119, 1900 (Bottini et al. 1900).
- *** *Riccia sorocarpa* Bisch., Bem. Leberm.: 145, 1835 (Bischoff 1835).
- ** *Riccia sorocarpa* var. *heegii* Schiffn., Hedwigia 53 (1/2): 36, 1912 (Schiffner 1912a).
- *** *Riccia subbifurca* Warnst. ex Croz., Rev. Bryol. 30 (4): 62, 1903 (Crozals 1903b).
- ** *Riccia tenella* D.L.Jacobs, Bryologist 52 (4): 168, 1949 [1950] (Jacobs 1949).
- *** *Riccia trabutiana* Steph., Rev. Bryol. 16 (5): 65, 1889 (Stephani 1889b).
- *** *Riccia violacea* M.Howe, Ann. Missouri Bot. Gard. 2 (1/2): 51, 1915 (Britton 1915).
- *** *Riccia violacea* var. *laevis* Jovet-Ast, Cryptog. Bryol. Lichénol. 10 (2): 100, 1989 (Jovet-Ast 1989).
- *** *Riccia warnstorfi* Limpr. ex Warnst., Verh. Bot. Vereins Prov. Brandenburg 27 (1): 85, 1886 (Warnstorf 1886).
- ** **subg. *Ricciella* (A.Braun) Boulay**, Musc. France 2: 198, 1904 (Boulay 1904). Bas.: *Ricciella* A.Braun, Flora 4 (2): 756, 1821 (Braun 1821).
- *** *Riccia cancellata* Taylor, London J. Bot. 5: 414, 1846 (Taylor 1846b).
- *** *Riccia cincta* Jovet-Ast, Cryptog. Bryol. 21 (4): 303, 2000 (Jovet-Ast 2000).
- *** *Riccia cruciata* Kashyap, J. Bombay Nat. Hist. Soc. 24 (2): 349, 1916 (Kashyap 1916).
- *** *Riccia eburnea* Jovet-Ast, Cryptog. Bryol. 21 (4): 300, 2000 (Jovet-Ast 2000).
- *** *Riccia hasskarliana* Steph., Bull. Herb. Boissier 6 (5): 374 (49), 1898 (Stephani 1898b).
- *** *Riccia junghuhniana* Nees et Lindenb., Syn. Hepat. 4: 609, 1846 (Gottsche et al. 1846).
- ** *Riccia junghuhniana* var. *simplex* Schiffn., Hep. Fl. Buitenzorg: 14, 1900 (Schiffner 1900a).
- *** *Riccia mangalorica* Ahmad ex Jovet-Ast, Cryptog. Bryol. 24 (3): 223, 2003 (Jovet-Ast 2003). Based on: *Riccia mangalorica* Ahmad, Curr. Sci. 11 (11): 433, 1942 (Ahmad 1942), *nom. inval.*
- *** *Riccia multifida* (Steph.) Steph., Bull. Herb. Boissier 6 (5): 365 (40), 1898 (Stephani 1898b). Bas.: *Ricciella multifida* Steph., Hedwigia 28 (4): 273, 1889 (Stephani 1889c).

⁴⁵³ *Riccia runssorensis* is possibly conspecific with *Riccia macrospora* (Seppelt 1998).

- ** *Riccia polycarpa* (Trab.) Jelenc, Bull. Trimestriel Geogr. Archeol. Oran 73 (228): 88, 1950 (Jelenc 1950). Bas.: *Ricciella polycarpa* Trab., Mém. Soc. Hist. Nat. Afrique N. 3: 36, 1933 (Maire 1933).
- *** *Riccia porosa* Taylor, London J. Bot. 5: 416, 1846 (Taylor 1846b).
- *** *Riccia pullulans* Jovet-Ast, Cryptog. Bryol. Lichénol. 18 (3): 183, 1997 (Jovet-Ast 1997).
- ** **sect. *Ricciella* (A.Braun) Bisch.**, Bem. Leberm.: 160, 1835 (Bischoff 1835). Bas.: *Ricciella* A.Braun, Flora 4 (2): 756, 1821 (Braun 1821).
- * *Riccia bahiensis* Steph., Bull. Herb. Boissier 6 (5): 375 (50), 1898 (Stephani 1898b).⁴⁵⁴
- *** *Riccia canaliculata* Hoffm., Deutschl. Fl., Theil 2 (Hoffm.): 96, 1795 [1796] (Hoffmann 1795).
- *** *Riccia chiapasensis* Jovet-Ast, Cryptog. Bryol. Lichénol. 14 (3): 235, 1993 (Jovet-Ast 1993b).
- *** *Riccia crassifrons* Spruce, Trans. & Proc. Bot. Soc. Edinburgh 15: 570, 1885 (Spruce 1885).
- *** *Riccia duplex* Lorb. ex Müll.Frib., Hedwigia 80 (1/2): 100, 1941 (Müller 1941).
- ** *Riccia duplex* var. *megaspora* Na-Thalang, Brunonia 3 (1): 128, 1980 (Na-Thalang 1980).
- *** *Riccia dussiana* Steph., Symb. Antill. (Urban) 3 (2): 275, 1902 (Stephani 1902e).
- *** *Riccia fluitans* L., Sp. Pl. 1: 1139, 1753 (Linnaeus 1753).
- *** *Riccia frostii* Austin, Bull. Torrey Bot. Club 6 (3): 17, 1875 (Austin 1875b).
- * *Riccia frostii* var. *crystallinoides* Schiffn., Ann. K. K. Naturhist. Hofmus. 27: 503, 1913 (Schiffner 1913).
- *** *Riccia geissleriana* Jovet-Ast, Cryptog. Bryol. Lichénol. 14 (3): 236, 1993 (Jovet-Ast 1993b).
- *** *Riccia hegewaldiana* Jovet-Ast, Cryptog. Bryol. Lichénol. 14 (3): 238, 1993 (Jovet-Ast 1993b).
- *** *Riccia huebeneriana* Lindenb., Nova Acta Phys.-Med. Acad. Caes. Leop.-Carol. Nat. Cur. 18 (1): 504d, 1836 [1837] (Lindenberg 1836).
- * *Riccia huebeneriana* subsp. *sullivantii* (Austin) R.M.Schust., Hepat. Anthocerotae N. Amer. 6: 457, 1992 (Schuster 1992d). Bas.: *Riccia sullivantii* Austin, Proc. Acad. Nat. Sci. Philadelphia 21: 233, 1869 (Austin 1869).
- *** *Riccia jovet-astiae* E.Vianna, Bol. Inst. Bioci. Univ. Fed. Rio Grande do Sul 38: 165, 1985 (Vianna 1985).
- *** *Riccia limicola* Jovet-Ast, Rev. Bryol. Lichénol. 44 (4): 422, 1978 (Jovet-Ast 1978).
- *** *Riccia paraguayensis* Spruce, Bull. Soc. Bot. France (Congr. Bot.) 36: cxvii, 1889 [1890] (Spruce 1889).
- *** *Riccia paranaensis* Hässel, Opera Lilloana 7: 228, 1962 [1963] (Hässel 1962).⁴⁵⁵
- *** *Riccia perennis* Steph., Bull. Herb. Boissier 6 (5): 372 (47), 1898 (Stephani 1898b).

⁴⁵⁴ *Riccia bahiensis* is conspecific with *Riccia cavernosa* in Jovet-Ast (1965), but it was accepted by Bischler-Causse et al. (2005). It is only known from the type specimen.

⁴⁵⁵ *Riccia paranaensis* may be conspecific with *Riccia huebeneriana* (Schuster 1992d), but it was accepted by Hässel and Rubies (2009).

- *** *Riccia purpurascens* Lehm., Linnaea 4: 371, 1829 (Lehmann 1829).
- ** *Riccia rhenana* Lorb. ex Müll.Frib., Hedwigia 80 (1/2): 94, 1941 (Müller 1941).
- ** *Riccia rhenana* var. *violacea* M.F.Boiko, Chornom. Bot. J. 7: 93, 2011 (Boiko 2011).
- *** *Riccia stricta* (Lindenb.) Perold, Bothalia 20 (2): 197, 1990 (Perold 1990d). Bas.: *Riccia fluitans* var. *stricta* Lindenb., Nova Acta Phys.-Med. Acad. Caes. Leop.-Carol. Nat. Cur. 18 (1): 444, 1836 [1837] (Lindenberg 1836).
- ** **sect. *Spongodes* Nees**, Naturgesch. Eur. Leberm. 4: 391, 1838 (Nees 1838a).
- *** *Riccia bullosa* Link, Syn. hepat. eur: 119, 1829 (Lindenberg 1829).
- *** *Riccia cavernosa* Hoffm., Deutschl. Fl., Theil 2 (Hoffm.): 95, 1795 [1796] (Hoffmann 1795).
- *** *Riccia crystallina* L., Sp. Pl. 1: 1138, 1753 (Linnaeus 1753).
- *** *Riccia cupulifera* A.V.Duthie, Trans. Roy. Soc. South Africa 24 (2): 116, 1936 (Duthie and Garside 1936).
- *** *Riccia garsidei* Sim, Trans. Roy. Soc. South Africa 15 (1): 13, 1926 (Sim 1926).
- *** *Riccia moenkemeyeri* Steph., Bot. Jahrb. Syst. 8 (2): 95, 1886 (Stephani 1886d).
- *** *Riccia rubricollis* Garside et A.V.Duthie ex Perold, Bothalia 21 (1): 51, 1991 (Perold 1991a).
- *** *Riccia volkii* S.W.Arnell, Mitt. Bot. Staatssamml. München 2 (16): 271, 1957 (Arnell 1957c).
- *** *Riccia vulcanicola* Eb.Fisch., Trop. Bryol. 8: 70, 1993 (Fischer 1993).
- ** **subg. *Thallocarpus* (Lindb.) Jovet-Ast**, Cryptog. Bryol. Lichénol. 14 (3): 220, 1993 (Jovet-Ast 1993b). Bas.: *Thallocarpus* Lindb., Not. Sällsk. Fauna Fl. Fenn. Förh. 13: 377, 1874 (Lindberg 1874a).
- *** *Riccia curtisii* (Austin) Austin, Bull. Torrey Bot. Club 6 (52): 305, 1879 (Austin 1879). Bas.: *Cryptocarpus curtisii* Austin, Proc. Acad. Nat. Sci. Philadelphia 21: 231, 1869 (Austin 1869).
- ** *Riccia leptothallus* R.M.Schust., J. Hattori Bot. Lab. 71: 271, 1992 (Schuster 1992c).
- *** *Riccia perssonii* Sultan Khan, Svensk Bot. Tidskr. 49 (3): 433, 1955 (Kahn 1955).
- ** **subg. *Triseriata* Jovet-Ast**, Cryptog. Bryol. Lichénol. 17 (2): 132, 1996 (Jovet-Ast 1996).
- *** *Riccia singularis* Jovet-Ast, Cryptog. Bryol. Lichénol. 17 (2): 127, 1996 (Jovet-Ast 1996).
- Incertae sedis***
- ** *Riccia abuensis* Bapna, Trans. Brit. Bryol. Soc. 4 (2): 249, 1962 (Bapna 1962).
- ** *Riccia acutisulca* Steph., Sp. Hepat. (Stephani) 6: 1, 1917 (Stephani 1917a).
- * *Riccia amboinensis* Schiffn., Leberm., Forschungsr. Gazelle 4 (4): 44, 1890 (Schiffner 1890).
- ** *Riccia aravalliensis* Pandé et Udar, J. Indian Bot. Soc. 36 (3): 249, 1957 (Pandé and Udar 1957).

- * *Riccia arnellii* Sultan Khan, *Bryologist* 60 (1): 29, 1957 (Khan 1957).
- ** *Riccia asprella* Carrington et Pearson, *Proc. Linn. Soc. New South Wales* (ser. 2) 2 (4): 1059, 1888 (Carrington and Pearson 1888a).
- * *Riccia asservanda* De Not. ex Lamothe, *Rech. Anat. Taxinom. Gamét. Marchantiales*: 138, 1919 (Lamothe 1919).
- ** *Riccia attenuata* Pandé, *Proc. Natl. Inst. Sci. India B* 25 (2): 92, 1959 (Pandé and Udar 1959).
- * *Riccia balansae* Steph., *Bull. Herb. Boissier* 6 (5): 370 (45), 1898 (Stephani 1898b).
- * *Riccia bialbistrata* Hässel, *Opera Lilloana* 7: 243, 1962 [1963] (Hässel 1962).⁴⁵⁶
- ** *Riccia biokoensis* Perold, *Nova Hedwigia* 64 (1/2): 244, 1997 (Perold 1997b).
- ** *Riccia blackii* Na-Thalang, *Brunonia* 3 (1): 81, 1980 (Na-Thalang 1980).
- *** *Riccia caroliniana* Na-Thalang, *Brunonia* 3 (1): 72, 1980 (Na-Thalang 1980).
- ** *Riccia cartilaginosa* Steph., *Hedwigia* 28 (4): 272, 1889 (Stephani 1889c).
- * *Riccia chartacea* K.I.Goebel, *Organogr. Pfl.*, ed. 2, 2 (1): 630, 1915 (Goebel 1915).
- ** *Riccia chinensis* Herzog, *Symb. Sin.* 5: 1, 1930 (Nicholson et al. 1930).
- ** *Riccia collata* Na-Thalang, *Brunonia* 3 (1): 122, 1980 (Na-Thalang 1980).
- ** *Riccia compacta* Garside, *Trans. Roy. Soc. South Africa* 27 (1): 17, 1939 (Duthie and Garside 1939).
- ** *Riccia convexa* Steph., *Sp. Hepat. (Stephani)* 6: 2, 1917 (Stephani 1917a).
- * *Riccia coronata* Sim, *Trans. Roy. Soc. South Africa* 15 (1): 9, 1926 (Sim 1926).⁴⁵⁷
- ** *Riccia crassa* Steph., *Bull. Herb. Boissier* 6 (5): 376 (51), 1898 (Stephani 1898b).
- ** *Riccia crenatodentata* O.H.Volk, *Nova Hedwigia* 46 (1/2): 27, 1988 (Volk 1988).
- ** *Riccia delavayi* Steph., *Bull. Herb. Boissier* 6 (5): 367 (42), 1898 (Stephani 1898b).
- ** *Riccia deserticola* Steph., *Bull. Herb. Boissier* 6 (5): 373 (48), 1898 (Stephani 1898b).
- *** *Riccia erubescens* Perold, *J. Bryol.* 16 (3): 371, 1991 (Perold 1991b).
- ** *Riccia esulcata* Steph., *Sp. Hepat. (Stephani)* 6: 2, 1917 (Stephani 1917a).
- ** *Riccia fertilissima* Steph., *Sp. Hepat. (Stephani)* 6: 2, 1917 (Stephani 1917a).
- * *Riccia gemmifera* O.H.Volk, *Nova Hedwigia* 39: 131, 1984 (Volk 1984).⁴⁵⁸
- ** *Riccia grollei* Udar, *Curr. Sci.* 34 (4): 126, 1965 (Udar 1965). *Nom. nov. pro Riccia tuberculata* Pandé et Udar, *Proc. Natl. Inst. Sci. India B* 24 (2): 83, 1958 (Pandé and Udar 1958), *nom. illeg.*
- ** *Riccia handelii* Schiffn., *Symb. sin.* 2: 81, 1937 (Schiffner 1937).
- ** *Riccia hawaiiensis* Hürl., *Phytologia* 61 (5): 339, 1986 (Hürlimann 1986).
- ** *Riccia indica* Udar et A.Gupta, *Proc. V Indian Geophytol. Conf., Special Publ.*: 307, 1984 (Udar and Gupta 1984).
- ** *Riccia indira-gandhiensis* Dabhade et A.Hasan, *J. Bombay Nat. Hist. Soc.* 83 (2): 400, 1986 (Dabhade and Hasan 1986).

456 *Riccia bialbistrata* is a doubtful taxon closely related to *Riccia lindmanii* (Bischler-Causse et al. 2005).

457 *Riccia coronata* is only known from the type specimen, which could not be traced. The description is very brief and it is suspected that it refers to smaller plants of *Riccia natalensis* (Perold 1999a).

458 *Riccia gemmifera* is possibly conspecific with *Riccia atropurpurea* (Perold 1999a).

- * *Riccia intermedia* Roum., Mém. Soc. Arts Sci. Carcassonne 5: 198, 1888 (Roume-guère 1888).⁴⁵⁹
- ** *Riccia jodhpurensis* Bapna, Bot. Not. 114 (2): 181, 1961 (Bapna 1961).
- ** *Riccia kirinensis* C.Gao et K.C.Chang, Acta Phytotax. Sin. 16 (4): 117, 1978 (Gao and Chang 1978).
- *** *Riccia laxisquamata* (Steph.) Steph., Bull. Herb. Boissier 6 (5): 371 (46), 1898 (Stephani 1898b). Bas.: *Ricciella laxisquamata* Steph., Bot. Jahrb. Syst. 20 (3): 299, 1895 (Stephani 1895a).
- ** *Riccia liaoningensis* C.Gao et K.C.Chang, Acta Phytotax. Sin. 16 (4): 113, 1978 (Gao and Chang 1978).
- ** *Riccia linearis* (Schiffn.) Steph., Bull. Herb. Boissier 6 (5): 371 (46), 1898 (Stephani 1898b). Bas.: *Ricciella linearis* Schiffn., Leberm., Forschungsr. Gazelle 4 (4): 43, 1890 (Schiffner 1890).
- ** *Riccia luticola* Na-Thalang, Brunonia 3 (1): 123, 1980 (Na-Thalang 1980).
- ** *Riccia mamrensis* Perold, Cryptog. Bryol. 26 (1): 68, 2005 (Perold 2005).
- * *Riccia marginata* Lindb., Meddel. Soc. Fauna Fl. Fenn. 1: 106, 1876 [1877] (Lindberg 1876b).⁴⁶⁰
- ** *Riccia melanospora* Kashyap, Liverworts W. Himal. 1: 94, 1929 (Kashyap 1929).
- ** *Riccia miyakeana* Schiffn., Österr. Bot. Z. 49 (11): 386, 1899 (Schiffner 1899c).
- ** *Riccia muscicola* Steph., Hedwigia 24 (1): 4, 1885 (Stephani 1885e).
- *** *Riccia nigerica* E.W.Jones, Trans. Brit. Bryol. Soc. 3 (2): 225, 1957 (Jones 1957a).
- * *Riccia nigrescens* Mont., Voy. Amér. Mérid., Bot. 7 (1): 15, 1839 (Montagne 1839b).⁴⁶¹
- ** *Riccia nipponica* S.Hatt., J. Hattori Bot. Lab. 9: 38, 1953 (Shimizu and Hattori 1953a).
- ** *Riccia novo-hannoverana* Schiffn., Leberm., Forschungsr. Gazelle 4 (4): 44, 1890 (Schiffner 1890).
- ** *Riccia numeensis* Steph., Bull. Herb. Boissier 6 (4): 343 (35), 1898 (Stephani 1898a).
- * *Riccia obtusa* Meijer, J. Hattori Bot. Lab. 20: 113, 1958 (Meijer 1958).⁴⁶²
- *** *Riccia oerstediana* Lindenb. et Hampe, Linnaea 24 (3): 304, 1851 [1852] (Hampe 1851b).
- ** *Riccia pandei* Udar, J. Indian Bot. Soc. 38 (1): 149, 1959 (Udar 1959).
- *** *Riccia papillispora* Steph., Bull. Herb. Boissier 6 (4): 334 (26), 1898 (Stephani 1898a).
- ** *Riccia papulosa* (Steph.) Steph., Bull. Herb. Boissier 6 (5): 377 (52), 1898 (Stephani 1898b). Bas.: *Ricciella papulosa* Steph., Hedwigia 28 (4): 273, 1889 (Stephani 1889c).
- ** *Riccia papulosa* var. *variabilis* Na-Thalang, Brunonia 3 (1): 112, 1980 (Na-Thalang 1980).
- ** *Riccia pathankotensis* Kashyap, J. Bombay Nat. Hist. Soc. 24 (2): 349, 1916 (Kashyap 1916).

459 *Riccia intermedia* (type from France) has neither been recognized in any recent treatment nor synonymized. The name may have priority once its identity is determined.

460 *Riccia marginata* is possibly conspecific with *Riccia beyrichiana* (Potemkin and Ahti 2012).

461 *Riccia nigrescens* is an *Anthoceros* species (Hässel and Rubies 2009).

462 *Riccia obtusa* may be conspecific with *Riccia gangetica* (Söderström et al. 2010a).

- * *Riccia perthiana* Steph. ex K.I.Goebel, *Organogr. Pfl.*, ed. 2, 2 (1): 630, 1915 (Goebel 1915).
- * *Riccia prominens* Meijer, *J. Hattori Bot. Lab.* 20: 111, 1958 (Meijer 1958).⁴⁶³
- ** *Riccia pseudofluitans* C.Gao et K.C.Chang, *Acta Phytotax. Sin.* 16 (4): 116, 1978 (Gao and Chang 1978).
- ** *Riccia pubescens* S.Hatt., *Nat. Sci. Mus.* 14 (6): 141, 1943 (Hattori 1943a).
- *** *Riccia radiata* Perold, *Bothalia* 34 (1): 23, 2004 (Perold 2004).
- ** *Riccia rechingeri* Steph., *Akad. Wiss. Wien, Math.-Naturwiss. Kl., Denkschr.* 81: 288, 1907 (Stephani 1907a).
- * *Riccia reticulatula* Udar, *Bull. Bot. Soc. Univ. Saugar* 13: 49, 1961 (Udar 1961).
- ** *Riccia rorida* Na-Thalang, *Brunonia* 3 (1): 101, 1980 (Na-Thalang 1980).
- * *Riccia saharensis* Steph. ex Jovet-Ast, *Rev. Bryol. Lichénol.* 26 (1/2): 62, 1957 (Gillett and Jovet-Ast 1957).⁴⁶⁴
- ** *Riccia satoi* S.Hatt., *Bot. Mag. (Tokyo)* 62 (733/734): 109, 1949 (Hattori 1949).
- * *Riccia schroederi* Steph., 52 (5): 304, 1912 (Stephani 1912a).
- *** *Riccia schweinfurthii* Steph., *Bull. Herb. Boissier* 6 (4): 339 (31), 1898 (Stephani 1898a).
- ** *Riccia sibayenii* Perold, *Bothalia* 31 (1): 151, 2001 (Perold 2001a).
- *** *Riccia somaliensis* Perold, *J. Bryol.* 16 (3): 367, 1991 (Perold 1991b).
- ** *Riccia spongiosula* Na-Thalang, *Brunonia* 3 (1): 113, 1980 (Na-Thalang 1980).
- * *Riccia subtilis* (Steph.) Steph., *Bull. Herb. Boissier* 6 (5): 364 (39), 1898 (Stephani 1898b). Bas.: *Ricciella subtilis* Steph., *Bih. Kongl. Svenska Vetensk.-Akad. Handl.* 23 (III, 2): 31, 1897 (Stephani 1897a).
- ** *Riccia sumatrana* Meijer, *J. Hattori Bot. Lab.* 20: 114, 1958 (Meijer 1958).
- *** *Riccia symoensii* Vanden Berghen, *Explor. Hydrobiol. Lac Bangweolo Luapula*: 191, 1972 (Vanden Berghen 1972b).
- ** *Riccia tasmanica* Steph. ex Rodway, *Tasm. Bryoph.*: 4, 1917 (Rodway 1917b).
- *** *Riccia tomentosa* O.H.Volk et Perold, *Bothalia* 20 (1): 25, 1990 (Volk and Perold 1990).
- ** *Riccia treubiana* Steph., *Bull. Herb. Boissier* 6 (4): 323 (15), 1898 (Stephani 1898a).
- * *Riccia treubiana* var. *subrubescens* Schiffn., *Hep. Fl. Buitenzorg*: 16, 1900 (Schiffner 1900a).
- * *Riccia triangularis* Steph., *Bull. Mus. Natl. Hist. Nat.* 18 (2): 116, 1912 (Corbière 1912).
- * *Riccia tuberculata* Poir., *Encycl. (Lamarck)* 6: 199, 1804 (Lamarck and Poirlet 1804).⁴⁶⁵
- ** *Riccia udarii* Kanwal, *J. Indian Bot. Soc.* 58 (3): 282, 1979 (Kanwal 1979).
- * *Riccia velenovskyi* Kavina, *Arch. Přír. Výzk. Čech* 16 (2): 75, 1915 (Kavina 1915).⁴⁶⁶

463 *Riccia prominens* may be conspecific with *Riccia junghuhniana* (Söderström et al. 2010a).

464 *Riccia saharensis* is possibly conspecific with *Riccia argenteolimbata* (Perold 1995).

465 *Riccia tuberculata* (type from France) has neither been recognized in any recent European treatment nor synonymized. The name may have priority once its identity is determined.

466 *Riccia velenovskyi* (type from Czech Republic) has neither been recognized in any recent European treatment nor synonymized. The name may have priority once its identity is determined.

- ** *Riccia velimalaiana* A.E.D.Daniels et P.Daniel, Bull. Bot. Surv. India 44 (1/4): 139, 2002 [2003] (Daniels and Daniel 2002).
- ** *Riccia victoriensis* Steph., Bull. Herb. Boissier 6 (5): 370, 1898 (Stephani 1898b).
- ** *Riccia weymouthiana* Steph. ex Rodway, Tasm. Bryoph.: 5, 1917 (Rodway 1917b).
- ** *Riccia wichuræ* Steph., Bull. Herb. Boissier 6 (4): 330 (22), 1898 (Stephani 1898a).
- ** ***Ricciocarpos* Corda**, Gen. hepat.: 651, 1829 (Corda 1829).
- *** *Ricciocarpos natans* (L.) Corda, Gen. hepat.: 651, 1829 (Corda 1829). Bas.: *Riccia natans* L., Syst. Nat., ed. 10., 2: 1339, 1759 (Linnaeus 1759).

*** Targioniaceae Dumort.

by D.G. Long

- *** ***Targionia* L.**, Sp. Pl. 1: 1136, 1753 (Linnaeus 1753).
- ** **subg. *Prototargionia* R.M.Schust.**, Hepat. Anthocerotae N. Amer. 6: 69, 1992 (Schuster 1992d).
- ** *Targionia stellaris* (Müll.Frib.) Hässel, Opera Lilloana 7: 74, 1962 [1963] (Hässel 1962). Bas.: *Grimaldia stellaris* Müll.Frib., Feddes Repert. Spec. Nov. Regni Veg. 58: 61, 1955 (Müller 1955).
- ** **subg. *Targionia***
- *** *Targionia hypophylla* L., Sp. Pl. 1: 1136, 1753 (Linnaeus 1753).
- ** *Targionia hypophylla* subsp. *linealis* W.Frey et Kürschner, Nova Hedwigia 57 (1/2): 127, 1993 (Frey and Kürschner 1993).
- ** *Targionia lorbeeriana* Müll.Frib., Hedwigia 79 (1/2): 78, 1940 (Müller 1940).
- Incertae sedis***
- * *Targionia dioica* Schiffn., Denkschr. Kaiserl. Akad. Wiss., Math.-Naturwiss. Kl. 67: 154, 1898 (Schiffner 1898a).⁴⁶⁷
- * *Targionia elongata* Bisch., Syn. Hepat. 4: 576, 1846 (Gottsche et al. 1846).
- * *Targionia fiorii* Gola, Ann. Bot. (Rome) 13 (1): 62, 1914 (Gola 1914a).
- * *Targionia formosica* Horik., J. Jap. Bot. 11: 499, 1935 (Horikawa 1935).
- * *Targionia indica* Udar et A.Gupta, Geophytology 13 (1): 83, 1983 (Udar and Gupta 1983).

⁴⁶⁷ *Targionia dioica* is probably conspecific with *Targionia hypophylla* (Söderström et al. 2010a).

*** Wiesnerellaceae Inoue

by D.G.Long

*** ***Wiesnerella* Schiffn.**, Österr. Bot. Z. 46 (3): 86, 1896 (Schiffner 1896b).*** *Wiesnerella denudata* (Mitt.) Steph., Bull. Herb. Boissier 7 (5): 382 (154), 1899 (Stephani 1899c). Bas.: *Dumortiera denudata* Mitt., J. Proc. Linn. Soc., Bot. 5 (18): 125, 1860 [1861] (Mitten 1860c).* *Wiesnerella fasciaria* C.Gao et K.C.Chang, Acta Bot. Yunnan. 3 (4): 391, 1981 (Gao et al. 1981).

Neohodgsoniales D.G.Long

*** Neohodgsoniaceae D.G.Long

by D.G. Long

*** ***Neohodgsonia* Perss.**, Bot. Not. 107 (1): 40, 1954 (Persson 1954). *Nom. nov. pro Hodgsonia* Perss., Hodgsonia Leaf. Stockholm: 1, 1953 (Persson 1953).*** *Neohodgsonia mirabilis* (Perss.) Perss., Bot. Not. 107 (1): 40, 1954 (Persson 1954). Bas.: *Hodgsonia mirabilis* Perss., Hodgsonia Leaf. Stockholm: 1, 1953 (Persson 1953).

Sphaerocarpaceae Cavers

*** Monocarpaceae D.J.Carr ex Schelpe

by D.G. Long

*** ***Monocarpus* D.J.Carr**, Austral. J. Bot. 4 (2): 176, 1956 (Carr 1956).*** *Monocarpus sphaerocarpus* D.J.Carr, Austral. J. Bot. 4 (2): 176, 1956 (Carr 1956).

*** Riellaceae Engl.

by J. G. Segarra-Moragues and F. Puche

*** ***Austroriella* Cargill et J.Milne**, Polish Bot. J. 58 (1): 72, 2013 (Cargill and Milne 2013).*** *Austroriella salta* J.Milne et Cargill, Polish Bot. J. 58 (1): 72, 2013 (Cargill and Milne 2013).

- *** *Riella* Mont., Ann. Sci. Nat. Bot. (sér. 3) 18: 11, 1852 (Montagne 1852).
- *** **subg. *Riella***
- *** *Riella alatospora* Wigglesw., J. Linn. Soc., Bot. 51 (339): 317, 1937 (Wigglesworth 1937).
- *** *Riella americana* M. Howe et Underw., Bull. Torrey Bot. Club 30 (4): 218, 1903 (Howe and Underwood 1903).
- * *Riella battandieri* Trab., Rev. Bryol. 13 (3): 35, 1886 (Trabut 1886).
- *** *Riella bialata* Trab., Rev. Bryol. 35 (4): 96, 1908 (Trabut 1908).
- *** *Riella capensis* Cavers, Rev. Bryol. 30 (5): 81, 1903 (Cavers 1903).
- *** *Riella choconensis* Hässel, Symp. Biol. Hung. 35: 341, 1987 (Hässel 1987).
- * *Riella cyrenaica* Maire, Bull. Soc. Hist. Nat. Afrique N. 30 (5): 312, 1939 (Maire and Weiler 1939).
- *** *Riella echinospora* Wigglesw., J. Linn. Soc., Bot. 51 (339): 321, 1937 (Wigglesworth 1937).
- * *Riella gallica* Balansa ex Trab., Rev. Gén. Bot. 3 (35): 450, 1891 (Trabut 1891).
- *** *Riella halophila* Banwell, Trans. Brit. Bryol. Soc. 1 (5): 475, 1951 (Banwell 1951).
- *** *Riella helicophylla* (Bory et Mont.) Mont., Ann. Sci. Nat. Bot. (sér. 3) 18: 12, 1852 (Montagne 1852). Bas.: *Duriaea helicophylla* Bory et Mont., Ann. Sci. Nat. Bot. (sér. 3) 1: 229, 1844 (Bory and Montagne 1844).
- * *Riella helicophylla* var. *macrocarpa* P. Allorge, Sched. Br. Iber. (ser. 2): 4, 1929 (Allorge 1929).
- * *Riella indica* Steph. ex Kashyap, J. Bombay Nat. Hist. Soc. 25 (2): 279, 1917 (Kashyap 1917).
- *** *Riella notarisii* (Mont.) Mont., Ann. Sci. Nat. Bot. (sér. 3) 18: 12, 1852 (Montagne 1852). Bas.: *Sphaerocarpos notarisii* Mont., Ann. Sci. Nat. Bot. (sér. 2) 9: 39, 1838 (Montagne 1838).⁴⁶⁸
- ** *Riella numidica* Trab., Bull. Soc. Hist. Nat. Afrique N. 25 (9): 391, 1934 [1935] (Trabut 1934).
- *** *Riella pampae* Hässel, Revista Mus. Argent. Ci. Nat., Bernardino Rivadavia Inst. Nac. Invest. Ci. Nat. Bot. 5 (9): 207, 1979 (Hässel 1979).
- *** *Riella parisii* Gottsche, Hepat. Eur., Leberm. 38-39: no. 375, 1867 (Gottsche and Rabenhorst 1867).
- *** *Riella purpureospora* Wigglesw., J. Linn. Soc., Bot. 51 (339): 312, 1937 (Wigglesworth 1937).
- * *Riella reuteri* Mont., Ann. Sci. Nat. Bot. (sér. 3) 18: 12, 1852 (Montagne 1852).
- * *Riella sersuensis* Trab., Bull. Soc. Hist. Nat. Afrique N. 25 (9): 392, 1934 [1935] (Trabut 1934).
- ** *Riella spiculata* J. Taylor, Kew Bull. 9 (1): 45, 1954 (Taylor 1954).

⁴⁶⁸ *Riella notarisii* is a species complex with poorly defined taxonomic boundaries including *Riella battandieri*, *Riella cyrenaica*, *Riella gallica*, *Riella indica*, *Riella reuteri* and *Riella sersuensis*.

- *** *Riella trigonospora* Segarra et Puche, S. African J. Bot. 94: 175, 2014 (Segarra-Moragues and Puche 2014).
- *** *Riella undulata* Hässel, Symp. Biol. Hung. 35: 341, 1987 (Hässel 1987).
- *** **subg. *Trabutiella* Porsild**, Bot. Tidsskr. 24 (3): 327, 1902 (Porsild 1902).
- *** *Riella affinis* M.Howe et Underw., Bull. Torrey Bot. Club 30 (4): 221, 1903 (Howe and Underwood 1903).
- *** *Riella cossoniana* Trab., Atlas fl. Alger 1: 6, 1886 (Battandier and Trabut 1886).
- *** *Riella echinata* (Müll.Frib.) Segarra, Puche et Sabovlj., Phytotaxa 159 (3): 165, 2014 (Segarra-Moragues et al. 2014). Bas.: *Riella cossoniana* var. *echinata* Müll. Frib., Rev. Bryol. Lichénol. 22 (3/4): 132, 1953 [1954] (Müller 1953).
- *** *Riella gamundiae* Hässel, Rev. Bryol. Lichénol. 38 (3/4): 580, 1972 [1973] (Hässel 1972b).
- *** *Riella heliospora* Segarra, Puche et Sabovlj., Syst. Bot. 37 (2): 315, 2012 (Segarra-Moragues et al. 2012).
- *** *Riella mediterranea* Segarra, Puche, Sabovlj., M.Infante et Heras, Phytotaxa 159 (3): 170, 2014 (Segarra-Moragues et al. 2014).

*** Sphaerocarpaceae Heeg

by D. Long

- *** ***Geothallus* Campb.**, Bot. Gaz. 21 (1): 13, 1896 (Campbell 1896).
- *** *Geothallus tuberosus* Campb., Bot. Gaz. 21 (1): 13, 1896 (Campbell 1896).
- *** ***Sphaerocarpos* Boehm.**, Def. gen. pl., ed. 3: 501, 1760 (Ludwig 1760).
- ** **subg. *Austrosphaerocarpos* R.M.Schust.**, Hapat. Anthocerotae N. Amer. 5: 813, 1992 (Schuster 1992b).
- *** *Sphaerocarpos stipitatus* Bisch. ex Lindenb., Nova Acta Phys.-Med. Acad. Caes. Leop.-Carol. Nat. Cur. 18 (1): 504i, 1836 [1837] (Lindenberg 1836).
- ** **subg. *Sphaerocarpos***
- *** *Sphaerocarpos michelii* Bellardi, App. fl. pedem.: 52, 1792 (Bellardi 1792).
- ** *Sphaerocarpos texanus* Austin, Bull. Torrey Bot. Club 6 (30): 158, 1877 (Austin 1877).

Incertae sedis

- *** *Sphaerocarpos cristatus* M.Howe, Mem. Torrey Bot. Club 7: 66, 1899 (Howe 1899).
- *** *Sphaerocarpos donnellii* Austin, Bull. Torrey Bot. Club 6 (30): 157, 1877 (Austin 1877).
- *** *Sphaerocarpos drewiae* Wigglesw., Univ. Calif. Publ. Bot. 16 (3): 129, 1929 (Wigglesworth 1929).

- *** *Sphaerocarpos europaeus* Lorb., Jahrb. Wiss. Bot. 80: 665, 1934 (Lorbeer 1934).⁴⁶⁹
 *** *Sphaerocarpos hians* Haynes, Bull. Torrey Bot. Club 37 (5): 225, 1910 (Haynes 1910).
 ** *Sphaerocarpos mucilloi* E.Vianna, Lindbergia 7 (1): 58, 1981 (Vianna 1981).

Names in genera not currently accepted

The following taxa in unsupported genera are all poorly understood. We list them here rather than making new combinations for names we do not know the status of.

***Acrostolia* Dumort.**, Recueil Observ. Jungerm.: 26, 1835 (Dumortier 1835).⁴⁷⁰

- * *Acrostolia alata* (Gottsche et Rabenh.) Trevis., Mem. Reale Ist. Lombardo Sci. (Ser. 3), C. Sci. Mat. 4 (13): 431, 1877 (Trevisan 1877). Bas.: *Pseudoneura alata* Gottsche et Rabenh., Hepat. Eur., Leberm. 56-57: no. 560, 1873 (Gottsche and Rabenhorst 1873b).
 * *Acrostolia brevifolia* (Gottsche et Rabenh.) Trevis., Mem. Reale Ist. Lombardo Sci. (Ser. 3), C. Sci. Mat. 4 (13): 431, 1877 (Trevisan 1877). Bas.: *Pseudoneura brevifolia* Gottsche et Rabenh., Hepat. Eur., Leberm. 56-57: no. 560, 1873 (Gottsche and Rabenhorst 1873b).

***Aphanolejeunea* A.Evans**, Bull. Torrey Bot. Club 38 (6): 272, 1911 (Evans 1911).

- * *Aphanolejeunea lancifera* R.M.Schust., Phytologia 45 (5): 434, 1980 (Schuster 1980b).⁴⁷¹
 * *Aphanolejeunea minima* Tixier, Ann. Fac. Sci. Yaoundé 20: 7, 1975 (Tixier 1975b).⁴⁷²

***Aspiromitus* Steph.**, Sp. Hepat. (Stephani) 5: 957, 1916 (Stephani 1916b).⁴⁷³

- * *Aspiromitus asper* Schiffn., Arch. Hydrobiol., suppl. 21 (3/4): 402, 1955 (Schiffner 1955).
 * *Aspiromitus bullosus* Schiffn., Arch. Hydrobiol., suppl. 21 (3/4): 403, 1955 (Schiffner 1955).
 * *Aspiromitus crenatifrons* Steph., Sp. Hepat. (Stephani) 5: 968, 1916 (Stephani 1916b).
 * *Aspiromitus lobatus* Schiffn., Arch. Hydrobiol., suppl. 21 (3/4): 405, 1955 (Schiffner 1955).
 * *Aspiromitus squamulosus* Schiffn., Arch. Hydrobiol., suppl. 21 (3/4): 407, 1955 (Schiffner 1955).

⁴⁶⁹ *Sphaerocarpos europaeus* is clearly distinct from *Sphaerocarpos texanus* (Bell et al. 2013).

⁴⁷⁰ *Acrostolia* is congeneric with *Riccardia*, but a few taxa have neither been transferred nor synonymized.

⁴⁷¹ *Aphanolejeunea lancifera* is a *Drepanolejeunea* species (Pócs et al. 2014).

⁴⁷² *Aphanolejeunea minima* seems to be close to *Cololejeunea gracilis* based on the drawing in the original description, but the type specimen (not available for study) seems to be very fragmentary, having only reduced leaves, so its identity is uncertain (Pócs and Bernecker 2009).

⁴⁷³ *Aspiromitus* is congeneric with *Anthoceros*, but some taxa have neither been transferred nor synonymized.

***Crossotolejeunea* (Spruce) Schiffn.**, *Hepat.* (Engl.-Prantl): 127, 1893 (Schiffner 1893b). Bas.: *Lejeunea* subg. *Crossotolejeunea* Spruce, *Trans. & Proc. Bot. Soc. Edinburgh* 15: 161, 1884 (Spruce 1884).⁴⁷⁴

* *Crossotolejeunea curvifolia* Steph., *Hedwigia* 35 (3): 75, 1896 (Stephani 1896b).⁴⁷⁵

***Eulejeunea* Steph.**, *Hedwigia* 27 (2): 60, 1888 (Stephani 1888a).⁴⁷⁶

* *Eulejeunea setulosa* Steph., *Sp. Hepat.* (Stephani) 6: 421, 1923 (Stephani 1923).

* *Eulejeunea subpilotiloba* Steph., *Sp. Hepat.* (Stephani) 6: 420, 1923 (Stephani 1923).⁴⁷⁷

***Euosmolejeunea* (Spruce) Steph.**, *Hedwigia* 28 (3): 170, 1889 (Stephani 1889d). Bas.: *Lejeunea* subg. *Euosmolejeunea* Spruce, *Trans. & Proc. Bot. Soc. Edinburgh* 15: 241, 1884 (Spruce 1884).⁴⁷⁸

* *Euosmolejeunea parvistipula* (Lindenb. et Gottsche) Steph., *Hedwigia* 29 (1): 80, 1890 (Stephani 1890a). Bas.: *Lejeunea parvistipula* Lindenb. et Gottsche, *Syn. Hepat.* 5: 761, 1847 (Gottsche et al. 1847).

* *Euosmolejeunea tenerrima* (Nees) Steph., *Sp. Hepat.* (Stephani) 5: 589, 1914 (Stephani 1914b). Bas.: *Jungermannia sordida* var. *tenerrima* Nees, *Fl. Bras.* (Martius) 1 (1): 363, 1833 (Nees 1833a).⁴⁷⁹

***Fimbraria* Nees**, *Horae Phys. Berol.*: 44, 1820 (Nees 1820) nom. illeg.⁴⁸⁰

* *Fimbraria gigantea* Steph., *Bull. Herb. Boissier* 7 (2): 93 (106), 1899 (Stephani 1899a).⁴⁸¹

* *Fimbraria incrassata* Steph., *Bull. Herb. Boissier* 7 (2): 87 (100), 1899 (Stephani 1899a).⁴⁸²

* *Fimbraria kamerunensis* Steph., *Sp. Hepat.* (Stephani) 6: 14, 1917 (Stephani 1917a).⁴⁸³

* *Fimbraria pirottae* Gola, *Ann. Bot. (Rome)* 13 (1): 64, 1914 (Gola 1914a).

474 *Crossotolejeunea* is congeneric with *Lejeunea*, but one taxon has neither been transferred nor synonymized.

475 *Crossotolejeunea curvifolia* has doubtful status, the type specimen could not be found in G (Reiner-Drehwald and Goda 2000).

476 *Eulejeunea* is congeneric with *Lejeunea* subg. *Lejeunea*, but a few taxa have neither been transferred nor synonymized.

477 *Eulejeunea subpilotiloba* is morphologically similar to *Lejeunea spiniloba*.

478 *Euosmolejeunea* is here treated as a subgenus of *Cheilolejeunea*, but a few taxa have neither been transferred nor synonymized.

479 *Euosmolejeunea tenerrima* is a doubtful taxon described with three syntypes, two from Brazil and one from Java. The Java material is probably not the same species as the material from Brazil.

480 *Fimbraria* is congeneric with *Asterella*, but the following taxa have neither been transferred nor synonymized, and their status is doubtful.

481 *Fimbraria gigantea* belongs to *Asterella* subg. *Asterella* sect. *Brachyblepharis*.

482 *Fimbraria incrassata* was provisionally placed in synonymy with *Asterella abyssinica* (Wigginton and Grolle 1996), and was listed as an unassigned *Asterella* species by Wigginton (2009).

483 *Fimbraria kamerunensis* was provisionally placed in synonymy with *Asterella abyssinica* (Wigginton and Grolle 1996), and was listed as an unassigned *Asterella* species by Wigginton (2009).

***Hygrolejeunea* (Spruce) Schiffn.**, Hepat. (Engl.-Prantl): 124, 1893 (Schiffner 1893b).
Bas.: *Lejeunea* subg. *Hygrolejeunea* Spruce, Trans. & Proc. Bot. Soc. Edinburgh 15: 230, 1884 (Spruce 1884).⁴⁸⁴

- * *Hygrolejeunea cubensis* Steph., Sp. Hepat. (Stephani) 5: 533, 1914 (Stephani 1914b).
- * *Hygrolejeunea harpaphylla* Steph., Sp. Hepat. (Stephani) 5: 552, 1914 (Stephani 1914b).
- * *Hygrolejeunea pacifica* Steph., Sp. Hepat. (Stephani) 6: 411, 1923 (Stephani 1923).
- * *Hygrolejeunea parvicalycina* Steph., Hedwigia 35 (3): 103, 1896 (Stephani 1896b).
- * *Hygrolejeunea parvistipula* Steph., Sp. Hepat. (Stephani) 5: 568, 1914 (Stephani 1914b).
- * *Hygrolejeunea patellirostris* Steph., Hedwigia 35 (3): 103, 1896 (Stephani 1896b).⁴⁸⁵
- * *Hygrolejeunea staudtiana* Steph., Sp. Hepat. (Stephani) 5: 528, 1914 (Stephani 1914b).⁴⁸⁶

***Hypenantron* Corda**, Gen. hepat.: 648, 1829 (Corda 1829).⁴⁸⁷

- * *Hypenantron brachypus* Steph. ex Lamothe, Rech. Anat. Taxinom. Gamét. Marchantiales: 107, 1919 (Lamothe 1919).
- * *Hypenantron brasiliense* Steph. ex Lamothe, Rech. Anat. Taxinom. Gamét. Marchantiales: 104, 1919 (Lamothe 1919).

***Jamesoniella* (Spruce) Carrington**, Cat. Brit. Moss. Hepat.: 25, 1881 (Carrington 1881). Bas.: *Jungermannia* subg. *Jamesoniella* Spruce, J. Bot. 14: 230, 1876 (Spruce 1876a).⁴⁸⁸

- * *Jamesoniella convoluta* Steph., Sp. Hepat. (Stephani) 6: 433, 1924 (Stephani 1924).

***Kingiolejeunea* H.Rob.**, Bryologist 70 (1): 53, 1967 (Robinson 1967).⁴⁸⁹

- * *Kingiolejeunea guayanensis* H.Rob., Bol. Soc. Venez. Ci. Nat. 32 (132/133): 259, 1976 (Robinson 1976b).

484 *Hygrolejeunea* is congeneric with *Lejeunea*, but some taxa have neither been transferred nor synonymized.

485 *Hygrolejeunea patellirostris* is conspecific with *Lejeunea acuta* in Tixier (1995b) and Wigginton and Grolle (1996), but it was kept as an unassigned *Lejeunea* species by Wigginton (2009).

486 *Hygrolejeunea staudtiana* is likely to be either *Lejeunea brenanii* or *Lejeunea isophylla* (Wigginton and Grolle 1996). It was kept as an unassigned *Lejeunea* species by Wigginton (2009).

487 *Hypenantron* is congeneric with *Asterella*, but a few taxa have neither been transferred nor synonymized.

488 *Jamesoniella* is congeneric with *Syzygiella* (Feldberg et al. 2010a), but one taxon has neither been transferred nor synonymized. The holotype was burned in B (Grolle 1971b) and it is not clear where it belongs.

489 *Kingiolejeunea* is congeneric with *Lepidolejeunea*, but one taxon has neither been transferred nor synonymized.

***Leptocolea* (Spruce) A.Evans**, Bull. Torrey Bot. Club 38 (6): 261, 1911 (Evans 1911). Bas.: *Lejeunea* sect. *Leptocolea* Spruce, Trans. & Proc. Bot. Soc. Edinburgh 15: 294, 1884 (Spruce 1884).⁴⁹⁰

* *Leptocolea sumatrana* Herzog, Ann. Bryol. 5: 96, 1932 (Herzog 1932a).⁴⁹¹

***Mastigobryum* (Nees) Lindenb. et Gottsche**, Syn. Hepat. 2: 214, 1845 (Gottsche et al. 1845a) nom. illeg. Bas.: *Herpetium* sect. *Mastigobryum* Nees, Naturgesch. Eur. Leberm. 3: 43, 1838 (Nees 1838b).⁴⁹²

* *Mastigobryum aberrans* Steph., Sp. Hepat. (Stephani) 6: 486, 1924 (Stephani 1924).

* *Mastigobryum asperum* Steph., J. & Proc. Roy. Soc. New South Wales 48 (1/2): 121, 1914 (Stephani and Watts 1914).

* *Mastigobryum deningeri* Herzog, Beih. Bot. Centralbl. 38 (2): 322, 1921 (Herzog 1921).

* *Mastigobryum karstenii* Steph., Bull. Herb. Boissier (sér. 2) 8 (12): 952 (502), 1908 (Stephani 1908b).

* *Mastigobryum ledermannii* Steph., Sp. Hepat. (Stephani) 6: 486, 1924 (Stephani 1924).

* *Mastigobryum londbergii* Steph., Sp. Hepat. (Stephani) 6: 487, 1924 (Stephani 1924).

* *Mastigobryum longifolium* Steph., Sp. Hepat. (Stephani) 6: 487, 1924 (Stephani 1924).

* *Mastigobryum minutitextum* Steph., Sp. Hepat. (Stephani) 6: 487, 1924 (Stephani 1924).

* *Mastigobryum multidens* Steph., Sp. Hepat. (Stephani) 6: 487, 1924 (Stephani 1924).

* *Mastigobryum muscicola* Steph., Sp. Hepat. (Stephani) 6: 486, 1924 (Stephani 1924).

* *Mastigobryum nigricans* Herzog, Beih. Bot. Centralbl. 38 (2): 322, 1921 (Herzog 1921).

* *Mastigobryum nipuranum* Steph., Sp. Hepat. (Stephani) 6: 485, 1924 (Stephani 1924).

* *Mastigobryum palmicola* Steph., Sp. Hepat. (Stephani) 6: 488, 1924 (Stephani 1924).

* *Mastigobryum rajanum* Herzog, Mitt. Inst. Allg. Bot. Hamburg 7 (3): 190, 1931 (Herzog 1931a).

* *Mastigobryum ribehanum* Steph., Sp. Hepat. (Stephani) 6: 488, 1924 (Stephani 1924).

* *Mastigobryum ruficaule* Beauverd, Sp. Hepat. (Stephani) 6: 485, 1924 (Stephani 1924).

* *Mastigobryum schraderbergii* Steph., Sp. Hepat. (Stephani) 6: 489, 1924 (Stephani 1924).

* *Mastigobryum squamulistipum* Steph., Sp. Hepat. (Stephani) 6: 480, 1924 (Stephani 1924).

* *Mastigobryum subhyalinum* Steph., Sp. Hepat. (Stephani) 6: 482, 1924 (Stephani 1924).

* *Mastigobryum venezuelanum* Molk., Syn. hepat. jav.: 104, 1856 [1857] (Sande Lacoste 1856b).

* *Mastigobryum vermiculare* Herzog, Hedwigia 66 (6): 339, 1926 (Herzog 1926).

⁴⁹⁰ *Leptocolea* is congeneric with *Cololejeunea*, but one taxon has neither been transferred nor synonymized.

⁴⁹¹ *Leptocolea sumatrana* is possibly conspecific with *Cololejeunea equialbi*.

⁴⁹² *Mastigobryum* is congeneric with *Bazzania*, but many species have not been studied recently and thus not transferred. It is possible that some prove to be older names of existing taxa when their identities are known. Grolle and Piippo (1984) could not study *Mastigobryum ledermannii*, *Mastigobryum londbergii* and *Mastigobryum longifolium* since the types were destroyed in B.

Nemoursia Mérat, Ann. Agric. Franç. (ser. 4) 2 (7): 10, 1840 (Mérat 1840).

- * *Nemoursia tuberculata* Mérat, Ann. Agric. Franç. (ser. 4) 2 (7): 10, 1840 (Mérat 1840).⁴⁹³

Physocolea (Spruce) Steph., Sp. Hepat. (Stephani) 5: 863, 1916 (Stephani 1916b). Bas.: *Lejeunea* sect. *Physocolea* Spruce, Trans. & Proc. Bot. Soc. Edinburgh 15: 292, 1884 (Spruce 1884).⁴⁹⁴

- * *Physocolea tambillensis* (Loitl.) Steph., Sp. Hepat. (Stephani) 5: 885, 1916 (Stephani 1916b). Bas.: *Lejeunea tambillensis* Loitl., Diagn. pl. nov.: 20, 1894 (Loitlesberger 1894).⁴⁹⁵

Plectocolea (Mitt.) Mitt., Fl. vit.: 405, 1871 [1873] (Mitten 1871). Bas.: *Solenostoma* subg. *Plectocolea* Mitt., J. Linn. Soc., Bot. 8 (31): 156, 1864 [1865] (Mitten 1864a).⁴⁹⁶

- * *Plectocolea subamoena* S.Winkl., Rev. Bryol. Lichénol. 42 (3): 821, 1976 (Winkler 1976).⁴⁹⁷

Polyotus Gottsche, Syn. Hepat. 2: 244, 1845 (Gottsche et al. 1845a) nom. illeg.⁴⁹⁸

- * *Polyotus peckianus* Austin, Proc. Acad. Nat. Sci. Philadelphia 21: 224, 1869 (Austin 1869).

Schisma Dumort., Commentat. Bot. (Dumortier): 114, 1822 (Dumortier 1822) nom. illeg.⁴⁹⁹

- * *Schisma orizabense* (Gottsche) Steph., Sp. Hepat. (Stephani) 4: 19, 1909 (Stephani 1909d). Bas.: *Sendtnera orizabensis* Gottsche, Mexik. Leverm.: 139, 1863 (Gottsche 1863).

- * *Schisma uleanum* Steph., Hedwigia 44 (4): 225, 1905 (Stephani 1905a).

Strepsilejeunea (Spruce) Schiffn., Hepat. (Engl.-Prantl): 127, 1893 (Schiffner 1893b). Bas.: *Lejeunea* sect. *Strepsilejeunea* Spruce, Trans. & Proc. Bot. Soc. Edinburgh 15: 168, 1884 (Spruce 1884).⁵⁰⁰

493 *Nemoursia tuberculata* is a *Conocephalum* species.

494 *Physocolea* is congeneric with *Cololejeunea*, but one taxon has neither been transferred nor synonymized.

495 *Physocolea tambillensis* is possibly conspecific with *Myriocoleopsis minutissima*.

496 *Plectocolea* is now regarded a subgenus of *Solenostoma*, but one taxon has neither been transferred nor synonymized.

497 *Plectocolea subamoena* is probably conspecific with *Solenostoma amoena*.

498 *Polyotus* is a superfluous name for *Lepidolaena*, but a few taxa have neither been transferred nor synonymized.

499 *Schisma* is congeneric with *Herbertus*, but a few taxa have neither been transferred nor synonymized.

500 *Strepsilejeunea* is congeneric with *Cheilelejeunea*, but some taxa have neither been transferred nor synonymized.

- * *Strepsilejeunea apollinea* (Gottsche) Steph., Sp. Hepat. (Stephani) 5: 291, 1913 (Stephani 1913a). Bas.: *Lejeunea apollinea* Gottsche, Fragm. (Mueller): 64, 1880 (Gottsche 1880).
- * *Strepsilejeunea durelii* Schiffn., Österr. Bot. Z. 49 (6): 206, 1899 (Schiffner 1899a).
- * *Strepsilejeunea hamatifolia* Steph., Sp. Hepat. (Stephani) 6: 396, 1923 (Stephani 1923).
- * *Strepsilejeunea lanceolata* (Gottsche) Steph., Sp. Hepat. (Stephani) 5: 283, 1913 (Stephani 1913a). Bas.: *Lejeunea lanceolata* Gottsche, Syn. Hepat. 3: 353, 1845 (Gottsche et al. 1845b).
- * *Strepsilejeunea muscicola* Herzog, Hedwigia 74 (2): 96, 1934 (Herzog 1934a).
- * *Strepsilejeunea novae-guineae* Steph., Sp. Hepat. (Stephani) 6: 397, 1923 (Stephani 1923).
- * *Strepsilejeunea obtusistipula* Steph., Biblioth. Bot. 87 (2): 258, 1916 (Stephani 1916a).
- * *Strepsilejeunea papulifolia* Steph., Biblioth. Bot. 87 (2): 259, 1916 (Stephani 1916a).
- * *Strepsilejeunea pectiniformis* (Gottsche) Steph., Sp. Hepat. (Stephani) 5: 285, 1913 (Stephani 1913a). Bas.: *Lejeunea pectiniformis* Gottsche, Ann. Sci. Nat. Bot. (sér. 5) 1: 156, 1864 (Gottsche 1864).
- * *Strepsilejeunea renistipula* Steph., Sp. Hepat. (Stephani) 5: 289, 1913 (Stephani 1913a).
- * *Strepsilejeunea vatovae* Gerola, Lav. Bot. Ist. Bot. Univ. Padova 12: 479, 1947 (Gerola 1947).

***Thysanolejeunea* (Spruce) Steph.**, Hedwigia 31 (1): 20, 1892 (Jack and Stephani 1892). Bas.: *Lejeunea* subg. *Thysanolejeunea* Spruce, Trans. & Proc. Bot. Soc. Edinburgh 15: 105, 1885 (Spruce 1885).

- * *Thysanolejeunea africana* Sim, Trans. Roy. Soc. South Africa 15 (1): 50, 1926 (Sim 1926).⁵⁰¹

***Trachylejeunea* (Spruce) Steph.**, Hedwigia 28 (4): 262, 1889 (Stephani 1889c) nom. rejic. Bas.: *Lejeunea* subg. *Trachylejeunea* Spruce, Trans. & Proc. Bot. Soc. Edinburgh 15: 180, 1884 (Spruce 1884).

- * *Trachylejeunea conifera* Steph., Sp. Hepat. (Stephani) 5: 302, 1913 (Stephani 1913a).
- * *Trachylejeunea cristuliflora* Steph., Hedwigia 35 (3): 137, 1896 (Stephani 1896b).
- * *Trachylejeunea englishii* Steph., Bull. Misc. Inform. Kew 1899 (151/152): 126, 1899 (MacGregor 1899).⁵⁰²
- * *Trachylejeunea jamaicensis* Pearson, Ann. Bryol. 4: 98, 1931 (Pearson 1931b).
- * *Trachylejeunea kusaiensis* Inoue et H.A.Mill., Bull. Natl. Sci. Mus. Tokyo (n.ser.) 8 (2): 147, 1965 (Inoue and Miller 1965).

501 *Thysanolejeunea africana* may be conspecific with *Caudalejeunea africana*.

502 *Trachylejeunea englishii* is not a *Trachylejeunea* species (see Zhu and So 1999a). The status needs further study.

Alphabetic list of accepted taxa

***	<i>Acanthocoleus aberrans</i> (Lindenb. et Gottsche) Kruijt	297
***	<i>Acanthocoleus aberrans</i> var. <i>laevis</i> Gradst.	297
***	<i>Acanthocoleus chrysophyllus</i> (Lehm.) Kruijt	297
**	<i>Acanthocoleus elgonensis</i> Gyarmati et Pócs	297
***	<i>Acanthocoleus gilvus</i> (Gottsche) Kruijt	297
***	<i>Acanthocoleus javanicus</i> (Steph.) Kruijt	297
***	<i>Acanthocoleus juddii</i> Kruijt	297
**	<i>Acanthocoleus madagascariensis</i> (Steph.) Kruijt	297
***	<i>Acanthocoleus trigonus</i> (Nees et Mont.) Gradst.	297
**	<i>Acanthocoleus yoshinaganus</i> (S.Hatt.) Kruijt	298
**	<i>Acrobolbus africanus</i> (Pearson) Briscoe	93
***	<i>Acrobolbus anisodontus</i> (Hook.f. et Taylor) Briscoe	94
**	<i>Acrobolbus antillanus</i> R.M.Schust.	94
**	<i>Acrobolbus azoricus</i> (Grolle et Perss.) Briscoe	94
*	<i>Acrobolbus bispinosus</i> (J.B.Jack et Steph.) Steph.	96
***	<i>Acrobolbus caducifolius</i> R.M.Schust.	94
***	<i>Acrobolbus ciliatus</i> (Mitt.) Schiffn.	94
***	<i>Acrobolbus cinerascens</i> (Lehm. et Lindenb.) Bastow	94
***	<i>Acrobolbus concinnus</i> (Mitt.) Grolle	94
**	<i>Acrobolbus cuneifolius</i> (Steph.) Briscoe	94
***	<i>Acrobolbus diversifolius</i> R.M.Schust.	94
***	<i>Acrobolbus epiphytus</i> (Colenso) Briscoe	94
***	<i>Acrobolbus flavicans</i> (J.J.Engel et Grolle) Briscoe et J.J.Engel	94
***	<i>Acrobolbus gradsteinii</i> (Grolle) Briscoe	94
**	<i>Acrobolbus integrifolius</i> (A.Evans) Briscoe	94
***	<i>Acrobolbus knightii</i> (Mitt.) Briscoe	94
**	<i>Acrobolbus kunkelii</i> (Hässel et Solari) Briscoe et J.J.Engel	94
***	<i>Acrobolbus laxus</i> (Lehm. et Lindenb.) Briscoe	94
***	<i>Acrobolbus limbatus</i> (Steph.) Briscoe et J.J.Engel	95
***	<i>Acrobolbus lophocoleoides</i> (Mitt.) Mitt.	95
**	<i>Acrobolbus madeirensis</i> (Grolle et Perss.) Briscoe	95
**	<i>Acrobolbus mittenii</i> Steph.	95
***	<i>Acrobolbus ochrophyllus</i> (Hook.f. et Taylor) R.M.Schust.	95
***	<i>Acrobolbus papillosus</i> (J.J.Engel et Glenny) Briscoe	95
***	<i>Acrobolbus perpusillus</i> (Colenso) Briscoe	95
***	<i>Acrobolbus perpusillus</i> var. <i>denticulatus</i> (J.J.Engel et Glenny) Briscoe	95
***	<i>Acrobolbus plagiochiloides</i> (J.J.Engel et Glenny) Briscoe	95
***	<i>Acrobolbus pseudosaccatus</i> (Grolle) Briscoe	95
***	<i>Acrobolbus renifolius</i> (Hässel et Solari) Briscoe et J.J.Engel	95
**	<i>Acrobolbus ruwenzorensis</i> (S.W.Arnell) Briscoe	95
***	<i>Acrobolbus saccatus</i> (Hook.) Trevis.	95
***	<i>Acrobolbus setulosus</i> (Mitt.) Briscoe	95
***	<i>Acrobolbus spinifolius</i> R.M.Schust.	95
***	<i>Acrobolbus sumatranus</i> (Schiffn.) Briscoe	96
***	<i>Acrobolbus surculosus</i> (Nees) Trevis.	96
***	<i>Acrobolbus tenellus</i> (Taylor) Trevis.	96
***	<i>Acrobolbus tenellus</i> var. <i>diversifolius</i> (E.A.Hodgs.) Briscoe	96
***	<i>Acrobolbus urvilleanus</i> (Mont.) Trevis.	96
***	<i>Acrobolbus viridis</i> (Mitt.) Briscoe et J.J.Engel	96

***	<i>Acrobolbus wilsonii</i> Nees.....	96
**	<i>Acrobolbus wilsonii</i> var. <i>andinus</i> Spruce	96
***	<i>Acrochila biserialis</i> (Lehm. et Lindenb.) Grolle	219
**	<i>Acrochila caledonica</i> (Steph.) Inoue	219
*	<i>Acrolejeunea abnormis</i> (Gottsche) Pearson	401
***	<i>Acrolejeunea allisonii</i> Gradst.	400
***	<i>Acrolejeunea arcuata</i> (Nees) Grolle et Gradst.	399
**	<i>Acrolejeunea arcuata</i> subsp. <i>gradsteinii</i> M.A.M.Renner	399
***	<i>Acrolejeunea aulacophora</i> (Mont.) Steph.	400
*	<i>Acrolejeunea comptonii</i> Pearson.....	401
***	<i>Acrolejeunea crassicaulis</i> (Steph.) Jian Wang bis et Gradst.	401
***	<i>Acrolejeunea emergens</i> (Mitt.) Steph.	399
***	<i>Acrolejeunea emergens</i> var. <i>confertissima</i> (Steph.) Gradst.	399
***	<i>Acrolejeunea fertilis</i> (Reinw., Blume et Nees) Schiffn.	399
***	<i>Acrolejeunea heterophylla</i> (A.Evans) Grolle et Gradst.	399
*	<i>Acrolejeunea inflexa</i> (Gottsche) Pearson	401
***	<i>Acrolejeunea infuscata</i> (Mitt.) Jian Wang bis et Gradst.	401
**	<i>Acrolejeunea meghalayensis</i> (Ajit P.Singh et V.Nath) Jian Wang bis et Gradst.	401
***	<i>Acrolejeunea mollis</i> (Hook.f. et Taylor) Schiffn.	400
***	<i>Acrolejeunea parvula</i> (Mizut.) Gradst.	399
***	<i>Acrolejeunea pusilla</i> (Steph.) Grolle et Gradst.	400
***	<i>Acrolejeunea pycnoclada</i> (Taylor) Schiffn.	399
***	<i>Acrolejeunea pycnoclada</i> subsp. <i>latistipula</i> Gradst.	399
***	<i>Acrolejeunea recurvata</i> Gradst.	400
***	<i>Acrolejeunea sandvicensis</i> (Gottsche) Steph.	399
***	<i>Acrolejeunea securifolia</i> (Nees) Steph.....	400
***	<i>Acrolejeunea securifolia</i> subsp. <i>caledonica</i> (Steph.) Gradst.	400
***	<i>Acrolejeunea securifolia</i> subsp. <i>hartmannii</i> (Steph.) Gradst.	400
***	<i>Acrolejeunea securifolia</i> subsp. <i>pallida</i> (Ångstr.) Gradst.	400
***	<i>Acrolejeunea sikkimensis</i> (Mizut.) Gradst.	400
**	<i>Acrolejeunea sinensis</i> (Jian Wang bis, R.L.Zhu et Gradst.) Jian Wang bis et Gradst.	401
***	<i>Acrolejeunea tjibodensis</i> (Verd.) Grolle et Gradst.	400
***	<i>Acrolejeunea torulosa</i> (Lehm. et Lindenb.) Schiffn.	399
***	<i>Acrolophozia fuegiana</i> R.M.Schust.	110
***	<i>Acrolophozia pectinata</i> R.M.Schust.	110
***	<i>Acrolophozia sulcata</i> Hässel.....	110
***	<i>Acromastigum adaptatum</i> Hürl.	134
***	<i>Acromastigum anisostomum</i> (Lehm. et Lindenb.) A.Evans.....	143
**	<i>Acromastigum anisostomum</i> var. <i>minutum</i> E.A.Hodgs.....	144
**	<i>Acromastigum aurescens</i> A.Evans.....	144
**	<i>Acromastigum bancanum</i> (Sande Lac.) A.Evans	144
**	<i>Acromastigum brotheri</i> (Steph.) A.Evans	144
***	<i>Acromastigum caledonicum</i> (Steph.) Grolle	143
**	<i>Acromastigum capillare</i> (Steph.) A.Evans	144
***	<i>Acromastigum cavifolium</i> R.M.Schust.	143
***	<i>Acromastigum colensoanum</i> (Mitt.) A.Evans ex Reimers	144
***	<i>Acromastigum cunninghamii</i> (Steph.) A.Evans	144
**	<i>Acromastigum curtilobum</i> A.Evans.....	144
***	<i>Acromastigum divaricatum</i> (Nees) A.Evans ex Reimers	144
**	<i>Acromastigum echinatiforme</i> (De Not.) A.Evans.....	144
*	<i>Acromastigum echinatum</i> (Gottsche) A.Evans	144
***	<i>Acromastigum exiguum</i> (Steph.) A.Evans	144

**	<i>Acromastigum exile</i> (Lindenb.) A.Evans	144
***	<i>Acromastigum filum</i> (Steph.) A.Evans	144
***	<i>Acromastigum filum</i> var. <i>papillosum</i> N.Kitag.	144
**	<i>Acromastigum fimbriatum</i> (Steph.) A.Evans	144
**	<i>Acromastigum fumosum</i> E.A.Br. et M.A.M.Renner	145
**	<i>Acromastigum furcatifolium</i> (Steph.) E.A.Br.	145
**	<i>Acromastigum herzogii</i> Grolle	143
***	<i>Acromastigum homodictyon</i> (Herzog) Grolle	143
***	<i>Acromastigum inaequilaterum</i> (Lehm. et Lindenb.) A.Evans	145
**	<i>Acromastigum integrifolium</i> (Austin) A.Evans	143
**	<i>Acromastigum interstiale</i> E.A.Br. et M.A.M.Renner	145
**	<i>Acromastigum laetevirens</i> (Sande Lac. ex Steph.) A.Evans	145
**	<i>Acromastigum laevigatum</i> A.Evans	145
**	<i>Acromastigum leptophyllum</i> Herzog	145
**	<i>Acromastigum linganum</i> (De Not.) A.Evans	145
**	<i>Acromastigum lobuliferum</i> A.Evans	145
**	<i>Acromastigum longirete</i> Grolle	145
***	<i>Acromastigum marginatum</i> E.A.Hodgs.	145
**	<i>Acromastigum microstictum</i> A.Evans	145
***	<i>Acromastigum mooreanum</i> (Steph.) E.A.Hodgs.	145
***	<i>Acromastigum moratii</i> N.Kitag.	145
**	<i>Acromastigum obliquatum</i> (Mitt.) A.Evans	145
**	<i>Acromastigum prismaticale</i> E.A.Br. et M.A.M.Renner	145
**	<i>Acromastigum pusillum</i> N.Kitag.	145
**	<i>Acromastigum rigidum</i> R.M.Schust.	145
***	<i>Acromastigum stellare</i> N.Kitag.	143
**	<i>Acromastigum stenophyllum</i> R.M.Schust.	143
**	<i>Acromastigum subechinatiforme</i> Hürl.	145
**	<i>Acromastigum tenax</i> (Steph.) A.Evans	145
***	<i>Acromastigum verticale</i> (Steph.) E.A.Hodgs.	143
***	<i>Acroscyphella iwatsukii</i> (N.Kitag.) N.Kitag. et Grolle	99
***	<i>Acroscyphella phoenicorbiza</i> (Grolle) N.Kitag. et Grolle	99
***	<i>Acroscyphella tjiwideiensis</i> (Sande Lac.) N.Kitag. et Grolle	99
*	<i>Acrostolia alata</i> (Gottsche et Rabenh.) Trevis.	507
*	<i>Acrostolia brevifolia</i> (Gottsche et Rabenh.) Trevis.	507
***	<i>Adelanthus aureomarginatus</i> R.M.Schust.	44
***	<i>Adelanthus carabayensis</i> (Mont.) Grolle	44
***	<i>Adelanthus falcatus</i> (Hook.) Mitt.	44
***	<i>Adelanthus gemmiparus</i> (R.M.Schust.) E.A.Hodgs.	44
***	<i>Adelanthus integerrimus</i> Grolle	44
***	<i>Adelanthus lindenbergianus</i> (Lehm.) Mitt.	44
**	<i>Adelanthus lingulatus</i> J.J.Engel et Váňa	44
***	<i>Adelanthus oclusus</i> (Hook.f. et Taylor) Carrington	44
***	<i>Adelanthus pittieri</i> (Steph.) Grolle	44
***	<i>Adelanthus squarrosus</i> Grolle	44
***	<i>Adelanthus tenuis</i> J.J.Engel et Grolle	44
***	<i>Aitchisoniella himalayensis</i> Kashyap	488
***	<i>Allisonia cockaynei</i> (K.I.Goebel) R.M.Schust.	463
***	<i>Allisoniella nigra</i> (Rodway) R.M.Schust.	65
**	<i>Allisoniella nigra</i> var. <i>acutiloba</i> J.J.Engel	65
**	<i>Allisoniella nigra</i> subsp. <i>novaezelandiae</i> R.M.Schust.	65
***	<i>Allisoniella recurva</i> R.M.Schust.	65

***	<i>Allisoniella scottii</i> (R.M.Schust.) R.M.Schust.	65
***	<i>Allisoniella subbipartita</i> (C.Massal.) R.M.Schust. et J.J.Engel	65
***	<i>Allisoniella tasmanica</i> R.M.Schust.	65
***	<i>Alobiella husnotii</i> (Spruce) Schiffn.	56
***	<i>Alobiellopsis acroscypha</i> (Spruce) R.M.Schust.	56
***	<i>Alobiellopsis dominicensis</i> (Spruce) Fulford	56
***	<i>Alobiellopsis heteromorpha</i> (Lehm.) R.M.Schust.	56
***	<i>Alobiellopsis parvifolia</i> (Steph.) R.M.Schust.	57
***	<i>Alobiellopsis pillansii</i> (Sim) R.M.Schust.	57
***	<i>Amazoopsis diplopoda</i> (Pócs) J.J.Engel et G.L.Merr.	183
***	<i>Amazoopsis dissotricha</i> (Spruce) J.J.Engel et G.L.Merr.	183
***	<i>Amazoopsis gracilis</i> J.J.Engel et G.L.Merr.	183
***	<i>Amphicephalozia africana</i> Váňa et M.Wigginton	65
***	<i>Amphicephalozia amplexicaulis</i> R.M.Schust.	65
***	<i>Amphicephalozia geisslerae</i> Pócs et Váňa	65
***	<i>Anastrepta orcadensis</i> (Hook.) Schiffn.	50
***	<i>Anastrophyllopsis involutifolia</i> (Mont. ex Gottsche, Lindenb. et Nees) Váňa et L.Söderstr.	65
***	<i>Anastrophyllopsis revoluta</i> (Steph.) Váňa et L.Söderstr.	65
***	<i>Anastrophyllopsis subcomplicata</i> (Lehm. et Lindenb.) Váňa et L.Söderstr.	66
***	<i>Anastrophyllum alpinum</i> Steph.	50
***	<i>Anastrophyllum assimile</i> (Mitt.) Steph.	50
***	<i>Anastrophyllum auritum</i> (Lehm.) Steph.	50
***	<i>Anastrophyllum ciliatum</i> Steph.	50
***	<i>Anastrophyllum donnianum</i> (Hook.) Steph.	50
***	<i>Anastrophyllum ellipticum</i> Inoue	50
**	<i>Anastrophyllum esenbeckii</i> (Mont.) Steph.	50
***	<i>Anastrophyllum fissum</i> Steph.	50
***	<i>Anastrophyllum joergensenii</i> Schiffn.	50
*	<i>Anastrophyllum lignicola</i> D.B.Schill et D.G.Long	50
***	<i>Anastrophyllum michauxii</i> (F.Weber) H.Buch	50
***	<i>Anastrophyllum nigrescens</i> (Mitt.) Steph.	51
***	<i>Anastrophyllum obtusum</i> Herzog	51
***	<i>Anastrophyllum piligerum</i> (Nees) Steph.	51
***	<i>Anastrophyllum squarrosum</i> Herzog	51
***	<i>Anastrophyllum stellatum</i> R.M.Schust.	51
***	<i>Anastrophyllum tubulosum</i> (Nees) Grolle	51
***	<i>Andrewsianthus aberrans</i> (Nees et Mont.) Grolle	77
***	<i>Andrewsianthus bidens</i> (Mitt. ex Steph.) R.M.Schust.	77
***	<i>Andrewsianthus bilobus</i> (Mitt.) Grolle	77
***	<i>Andrewsianthus carinatus</i> Grolle	77
***	<i>Andrewsianthus cavifolius</i> Grolle et Váňa	77
***	<i>Andrewsianthus chimbuensis</i> R.M.Schust.	77
***	<i>Andrewsianthus hodgsoniae</i> (R.M.Schust.) R.M.Schust. ex J.J.Engel	78
***	<i>Andrewsianthus kinabaluensis</i> N.Kitag.	77
***	<i>Andrewsianthus koponenii</i> Váňa et Piippo	77
***	<i>Andrewsianthus marionensis</i> (S.W.Arnell) Grolle	78
***	<i>Andrewsianthus mizutanii</i> N.Kitag.	77
***	<i>Andrewsianthus papillosus</i> N.Kitag.	78
***	<i>Andrewsianthus perigonialis</i> (Hook.f. et Taylor) R.M.Schust.	78
***	<i>Andrewsianthus puniceus</i> (Nees) R.M.Schust. ex Grolle	78
***	<i>Andrewsianthus recurvifolius</i> (Nees) R.M.Schust.	78
***	<i>Andrewsianthus scabrellus</i> (C.Massal.) R.M.Schust. ex J.J.Engel	78

**	<i>Andrewsianthus sphenoloboides</i> (R.M.Schust.) R.M.Schust. ex J.J.Engel.....	78
***	<i>Andrewsianthus sundaicus</i> (Schiffn.) R.M.Schust.	78
***	<i>Andrewsianthus zantenii</i> Váňa	78
*	<i>Aneura amboinensis</i> Steph.	435
*	<i>Aneura augustae</i> Steph.....	435
*	<i>Aneura biflora</i> Colenso.....	435
***	<i>Aneura blasiooides</i> (Horik.) Furuki.....	435
**	<i>Aneura brasiliensis</i> (Ångstr.) Steph.....	435
*	<i>Aneura brevissima</i> Steph.....	435
**	<i>Aneura cerebrata</i> Hewson	435
***	<i>Aneura crateriformis</i> Furuki et D.G.Long.....	435
*	<i>Aneura crinita</i> C.Massal.....	436
**	<i>Aneura crumii</i> L.Söderstr., A.Hagborg et von Konrat.....	436
*	<i>Aneura densa</i> Steph.	436
*	<i>Aneura denticulata</i> Mitt. ex Thurn	436
**	<i>Aneura eachamensis</i> Hewson.....	436
**	<i>Aneura erronea</i> Steph.	436
**	<i>Aneura eskucheii</i> Hässel	436
**	<i>Aneura gemmifera</i> Furuki	436
*	<i>Aneura giangena</i> Hewson	436
**	<i>Aneura gibbsiana</i> Steph.	436
**	<i>Aneura glaucescens</i> Steph.	436
*	<i>Aneura goebeliana</i> Steph.....	436
***	<i>Aneura hirsuta</i> Furuki	436
*	<i>Aneura hunsteinii</i> Steph.	436
**	<i>Aneura imbricata</i> Colenso	436
**	<i>Aneura kaguaensis</i> Hewson.....	436
**	<i>Aneura keniae</i> Gola	436
*	<i>Aneura latemultifida</i> Steph.	436
**	<i>Aneura latissima</i> Spruce.....	436
*	<i>Aneura ledermannii</i> Steph.	436
**	<i>Aneura macrostachya</i> Spruce	436
***	<i>Aneura marianensis</i> Furuki	436
***	<i>Aneura maxima</i> (Schiffn.) Steph.....	436
***	<i>Aneura mirabilis</i> (Malmb.) Wickett et Goffinet.....	436
**	<i>Aneura novaecaledoniae</i> R.M.Schust.	436
***	<i>Aneura novaguineensis</i> Hewson.....	437
*	<i>Aneura nymannii</i> Steph.	437
**	<i>Aneura pellucida</i> Colenso	437
***	<i>Aneura pinguis</i> (L.) Dumort.	437
**	<i>Aneura polyantha</i> Colenso.....	437
**	<i>Aneura punctata</i> Colenso	437
**	<i>Aneura rodwayi</i> Hewson	437
*	<i>Aneura roraimensis</i> Steph.	437
**	<i>Aneura rotangicola</i> Steph.	437
*	<i>Aneura serrulata</i> Gottsche ex Steph.	437
**	<i>Aneura sharpii</i> Inoue et N.G.Mill.	437
*	<i>Aneura singalangana</i> (Schiffn.) Steph.	437
**	<i>Aneura subcanaliculata</i> R.M.Schust.....	437
*	<i>Aneura subledermannii</i> Steph.	437
*	<i>Aneura subtenerima</i> Steph.....	437
*	<i>Aneura vincentina</i> Steph.....	437

***	<i>Anoplolejeunea conferta</i> (C.F.W.Meissn. ex Spreng.) A.Evans.....	361
***	<i>Anthelia julacea</i> (L.) Dumort.	98
**	<i>Anthelia juratzkana</i> (Limpr.) Trevis.	98
***	<i>Anthoceros adscendens</i> Lehm. et Lindenb.	27
*	<i>Anthoceros aethiopicus</i> Gola	30
***	<i>Anthoceros agrestis</i> Paton <i>nom. conserv.</i> (p. 000)	
***	<i>Anthoceros alpinus</i> Steph.....	27
*	<i>Anthoceros angustifolius</i> Gottsche, Lindenb. et Nees	28
***	<i>Anthoceros angustus</i> Steph.....	28
***	<i>Anthoceros bharadwajii</i> Udar et A.K.Asthana.....	28
*	<i>Anthoceros brunnthaleri</i> Steph.	30
**	<i>Anthoceros buettneri</i> Steph.....	28
***	<i>Anthoceros capricornii</i> Cargill et G.A.M.Scott.....	28
***	<i>Anthoceros caucasicus</i> Steph.....	28
**	<i>Anthoceros cavernosus</i> Steph.	28
*	<i>Anthoceros chambensis</i> Kashyap.....	28
**	<i>Anthoceros chungii</i> Khanna	28
**	<i>Anthoceros crispatus</i> Griff.	28
**	<i>Anthoceros dimorphus</i> Sim	28
***	<i>Anthoceros erectus</i> Kashyap	28
**	<i>Anthoceros expansus</i> (Steph.) J.C.Villarreal et Cargill	28
*	<i>Anthoceros ferdinandi-muelleri</i> Steph.	28
*	<i>Anthoceros floribundus</i> Steph.	30
***	<i>Anthoceros fragilis</i> Steph.	28
***	<i>Anthoceros fusiformis</i> Austin.....	28
***	<i>Anthoceros fusiformis</i> var. <i>taiwanensis</i> J.Haseg.	28
**	<i>Anthoceros gasongorii</i> Gola	28
**	<i>Anthoceros granulatus</i> Gottsche.....	28
**	<i>Anthoceros harrisanus</i> (Steph.) Parihar	28
*	<i>Anthoceros helmsii</i> Steph.	28
**	<i>Anthoceros jamesonii</i> Taylor ex Mitt.	28
*	<i>Anthoceros javanicoides</i> H.A.Mill.	29
**	<i>Anthoceros jungermannioides</i> Schwein.	29
*	<i>Anthoceros kajumas</i> (K.I.Goebel) Prosk.	29
*	<i>Anthoceros koshii</i> Khanna	29
***	<i>Anthoceros lamellatus</i> Steph.	29
***	<i>Anthoceros laminifer</i> Steph.....	29
***	<i>Anthoceros macounii</i> M.Howe	29
***	<i>Anthoceros macrosporus</i> Steph.	29
**	<i>Anthoceros maritimus</i> Steph.....	29
*	<i>Anthoceros megasporus</i> Meijer.....	29
*	<i>Anthoceros mildbraedii</i> Steph.	30
**	<i>Anthoceros muscoides</i> Colenso	29
***	<i>Anthoceros myriandroecius</i> Steph.	29
**	<i>Anthoceros natalensis</i> Steph.	29
***	<i>Anthoceros neesii</i> Prosk.	29
**	<i>Anthoceros niger</i> Steph.	29
**	<i>Anthoceros orizabensis</i> (Steph.) Hässel.....	29
***	<i>Anthoceros pandei</i> Udar et A.K.Asthana.....	29
*	<i>Anthoceros parvifrons</i> Steph.	30
***	<i>Anthoceros patagonicus</i> Hässel.....	29
***	<i>Anthoceros patagonicus</i> subsp. <i>gremmenii</i> J.C.Villarreal, J.J.Engel et Váňa	29

**	<i>Anthoceros peruvianus</i> Steph.	29
**	<i>Anthoceros pinnatus</i> Steph.	29
*	<i>Anthoceros pseudocostus</i> Steph.	30
***	<i>Anthoceros punctatus</i> L.	29
*	<i>Anthoceros pusillus</i> Colenso.	30
*	<i>Anthoceros rossoi</i> Gola.	30
***	<i>Anthoceros rosulans</i> J.Haseg.	30
***	<i>Anthoceros sambesianus</i> Steph.	30
***	<i>Anthoceros scariosus</i> Austin.	30
**	<i>Anthoceros schroederi</i> Steph.	30
**	<i>Anthoceros serratus</i> Steph.	30
**	<i>Anthoceros simulans</i> M.Howe.	30
**	<i>Anthoceros spongiosus</i> Steph.	30
***	<i>Anthoceros subtilis</i> Steph.	30
***	<i>Anthoceros telaganus</i> Steph.	30
***	<i>Anthoceros tristianianus</i> J.C.Villarreal, J.J.Engel et Váňa.	30
***	<i>Anthoceros tuberculatus</i> Lehm. et Lindenb.	30
**	<i>Anthoceros venosus</i> Lindenb. et Gottsche.	30
*	<i>Aphanolejeunea lancifera</i> R.M.Schust.	507
*	<i>Aphanolejeunea minima</i> Tixier.	507
***	<i>Aphanotropis saxicola</i> Herzog.	317
***	<i>Aponardia huerlimannii</i> (Váňa et Grolle) Váňa.	123
***	<i>Apotreubia hortoniae</i> Konstant.	42
***	<i>Apotreubia nana</i> (S.Hatt. et Inoue) S.Hatt. et Mizut.	42
**	<i>Apotreubia pusilla</i> (R.M.Schust.) Grolle.	42
***	<i>Apotreubia yunnanensis</i> Higuchi.	43
**	<i>Archeophylla paradoxa</i> R.M.Schust.	253
**	<i>Archeophylla pungens</i> (Herzog) R.M.Schust.	253
***	<i>Archeophylla schusteri</i> (E.A.Hodgs. et Allison) R.M.Schust.	253
***	<i>Archilejeunea abbreviata</i> (Mitt.) Vanden Berghen.	401
**	<i>Archilejeunea africana</i> Steph.	401
**	<i>Archilejeunea alata</i> Steph.	401
**	<i>Archilejeunea amakawana</i> Inoue.	402
***	<i>Archilejeunea auberiana</i> (Mont.) Steph.	402
***	<i>Archilejeunea autoica</i> Vanden Berghen.	402
***	<i>Archilejeunea badia</i> (Spruce) Steph.	402
*	<i>Archilejeunea bilabiata</i> (Mitt.) Steph.	402
***	<i>Archilejeunea bischleriana</i> Gradst.	402
**	<i>Archilejeunea bongardii</i> Steph.	402
**	<i>Archilejeunea brachyantha</i> J.B.Jack et Steph.	402
**	<i>Archilejeunea brevilibula</i> Steph.	402
***	<i>Archilejeunea crispistipula</i> (Spruce) Steph.	402
*	<i>Archilejeunea eberhardtii</i> Steph.	402
**	<i>Archilejeunea elobulata</i> Steph.	402
**	<i>Archilejeunea gradsteimii</i> X.Q.Shi et R.L.Zhu.	402
**	<i>Archilejeunea incrassata</i> Steph.	402
**	<i>Archilejeunea jonesii</i> Vanden Berghen.	402
***	<i>Archilejeunea juliformis</i> (Nees) Gradst.	402
***	<i>Archilejeunea kiushiana</i> (Horik.) Verd.	402
***	<i>Archilejeunea ludoviciana</i> (De Not.) P.Geissler et Gradst.	402
***	<i>Archilejeunea ludoviciana</i> subsp. <i>porelloides</i> (Spruce) Gradst.	402
**	<i>Archilejeunea nebeliana</i> Gradst. et Schäf.-Verw.	403

* <i>Archilejeunea negrensis</i> Steph.	403
*** <i>Archilejeunea olivacea</i> (Hook.f. et Taylor) Steph.	403
* <i>Archilejeunea ovata</i> Herzog.	403
*** <i>Archilejeunea parviflora</i> (Nees) Steph.	403
** <i>Archilejeunea planifolia</i> (Horik.) Mizut.	403
*** <i>Archilejeunea planiuscula</i> (Mitt.) Steph.	403
** <i>Arctoscyphus fuegiensis</i> (C.Massal.) Hässel.	123
** <i>Arctoscyphus ronsmithii</i> Hässel.	123
*** <i>Arnellia fennica</i> (Gottsche) Lindb.	99
*** <i>Ascidiota blepharophylla</i> C.Massal.	417
** <i>Ascidiota blepharophylla</i> subsp. <i>alaskana</i> Steere et R.M.Schust.	417
* <i>Aspiromitus asper</i> Schiffn.	507
* <i>Aspiromitus bullosus</i> Schiffn.	507
* <i>Aspiromitus crenatifrons</i> Steph.	507
* <i>Aspiromitus lobatus</i> Schiffn.	507
* <i>Aspiromitus squamulosus</i> Schiffn.	507
*** <i>Asterella abyssinica</i> (Gottsche) Grolle.	477
*** <i>Asterella africana</i> (Mont.) Underw. ex A.Evans.	477
*** <i>Asterella alpina</i> (Steph.) D.G.Long.	480
*** <i>Asterella australis</i> (Hook.f. et Taylor) Verd.	478
*** <i>Asterella bachmannii</i> (Steph.) S.W.Arnell.	478
*** <i>Asterella blumeana</i> (Nees) Kachroo.	477
*** <i>Asterella bolanderi</i> (Austin) Underw.	478
*** <i>Asterella californica</i> (Hampe ex Austin) Underw.	481
* <i>Asterella caucasica</i> (Steph.) H.Buch, A.Evans et Verd.	478
*** <i>Asterella chilensis</i> (Nees et Mont.) A.Evans.	477
*** <i>Asterella conocephala</i> (Steph.) R.M.Schust.	478
** <i>Asterella coronata</i> (Steph.) H.A.Mill.	478
*** <i>Asterella cruciata</i> (Steph.) Horik.	477
** <i>Asterella dioica</i> (Steph.) H.A.Mill.	478
*** <i>Asterella dissoluta</i> (Steph.) Grolle.	477
* <i>Asterella dognyensis</i> H.A.Mill.	478
*** <i>Asterella dominicensis</i> S.W.Arnell.	477
*** <i>Asterella drummondii</i> (Taylor) R.M.Schust. ex D.G.Long.	478
*** <i>Asterella ebinella</i> (Gottsche) Underw.	478
*** <i>Asterella elegans</i> (Spreng.) Trevis.	479
*** <i>Asterella grollei</i> D.G.Long.	480
*** <i>Asterella heteroflora</i> (Steph.) H.A.Mill.	479
*** <i>Asterella innovans</i> (Austin) H.A.Mill.	479
*** <i>Asterella khasyana</i> (Griff.) Grolle.	477
*** <i>Asterella lateralis</i> M.Howe.	479
*** <i>Asterella leptophylla</i> (Mont.) Grolle.	477
*** <i>Asterella limbata</i> D.G.Long et Grolle.	477
*** <i>Asterella lindenbergiana</i> (Corda ex Nees) Lindb. ex Arnell.	479
*** <i>Asterella linearis</i> (Steph.) M.Howe.	479
*** <i>Asterella longebarbata</i> (Steph.) H.A.Mill.	479
*** <i>Asterella macropoda</i> (Spruce) A.Evans.	479
*** <i>Asterella marginata</i> (Nees) S.W.Arnell.	479
** <i>Asterella muelleri</i> (Gottsche) R.M.Schust.	479
*** <i>Asterella multiflora</i> (Steph.) Kachroo.	479
*** <i>Asterella muscicola</i> (Steph.) S.W.Arnell.	480
*** <i>Asterella mussuriensis</i> (Kashyap) Verd.	479

***	<i>Asterella mussuriensis</i> subsp. <i>crassa</i> (Shimizu et S.Hatt.) D.G.Long.....	479
***	<i>Asterella palmeri</i> (Austin) Underw.....	480
***	<i>Asterella pappii</i> (Gola) Grolle.....	479
***	<i>Asterella persica</i> (Steph.) M.Howe.....	479
*	<i>Asterella preussii</i> (Schiffn.) M.Howe.....	480
***	<i>Asterella pringlei</i> Underw.....	480
***	<i>Asterella rugosa</i> A.Evans.....	480
***	<i>Asterella saccata</i> (Wahlenb.) A.Evans.....	480
**	<i>Asterella setisquama</i> (Steph.) R.M.Schust.....	480
**	<i>Asterella shimizuana</i> Inoue.....	477
***	<i>Asterella syngenesica</i> (Bory) Grolle.....	480
**	<i>Asterella tasmanica</i> (Steph.) R.M.Schust.....	480
***	<i>Asterella tenella</i> (L.) P.Beauv.....	477
***	<i>Asterella tenera</i> (Mitt.) R.M.Schust.....	478
*	<i>Asterella tenerrima</i> (Steph.) H.A.Mill.....	478
***	<i>Asterella venosa</i> (Lehm. et Lindenb.) A.Evans.....	478
***	<i>Asterella versicolor</i> A.Evans.....	480
***	<i>Asterella vulcanica</i> (Schiffn.) Kachroo et Bapna.....	480
***	<i>Asterella wallichiana</i> (Lehm. et Lindenb.) Grolle.....	481
***	<i>Asterella whiteleggeana</i> (Steph.) R.M.Schust.....	480
***	<i>Asterella wilmsii</i> (Steph.) S.W.Arnell.....	480
*	<i>Athalamia dioica</i> Kashyap.....	484
***	<i>Athalamia pinguis</i> Falc.....	484
*	<i>Athalamia pulcherrima</i> (Steph.) S.Hatt.....	484
***	<i>Aureolejeunea aurifera</i> R.M.Schust.....	304
***	<i>Aureolejeunea lumae</i> (Herzog) van Slageren.....	304
***	<i>Aureolejeunea paramicola</i> (Herzog) R.M.Schust.....	304
***	<i>Aureolejeunea quinquecarinata</i> R.M.Schust.....	304
***	<i>Aureolejeunea tonduzana</i> (Steph.) Gradst.....	304
**	<i>Austrolophozia andina</i> R.M.Schust.....	96
***	<i>Austrolophozia camensis</i> (Steph.) Grolle ex Hässel et Solari.....	96
***	<i>Austrolophozia paradoxa</i> R.M.Schust.....	96
***	<i>Austroriella salta</i> J.Milne et Cargill.....	504
***	<i>Balantiopsis asymmetrica</i> (Herzog) J.J.Engel.....	99
***	<i>Balantiopsis bisbifida</i> (Steph.) Steph.....	100
***	<i>Balantiopsis brasiliensis</i> Steph.....	100
***	<i>Balantiopsis cancellata</i> (Nees) Steph.....	100
***	<i>Balantiopsis ciliaris</i> S.Hatt.....	100
**	<i>Balantiopsis ciliaris</i> subsp. <i>novoguineensis</i> S.Hatt.....	100
***	<i>Balantiopsis convexiuscula</i> Berggr.....	100
***	<i>Balantiopsis crocea</i> Herzog.....	100
***	<i>Balantiopsis diplophylla</i> (Hook.f. et Taylor) Mitt.....	100
**	<i>Balantiopsis diplophylla</i> var. <i>hockenii</i> (Berggr.) J.J.Engel et G.L.Merr.....	100
***	<i>Balantiopsis erinacea</i> (Hook.f. et Taylor) Mitt.....	100
***	<i>Balantiopsis lingulata</i> R.M.Schust.....	100
***	<i>Balantiopsis montana</i> (Colenso) J.J.Engel et G.L.Merr.....	100
**	<i>Balantiopsis neocaledonica</i> Pearson.....	100
**	<i>Balantiopsis paucidens</i> Steph.....	100
***	<i>Balantiopsis purpurata</i> Mitt.....	100
***	<i>Balantiopsis rosea</i> Berggr.....	100
***	<i>Balantiopsis splendens</i> (Steph.) J.J.Engel et G.L.Merr.....	100
***	<i>Balantiopsis tumida</i> Berggr.....	100

***	<i>Balantiopsis verrucosa</i> J.J.Engel et G.L.Merr.	100
***	<i>Barbilophozia barbata</i> (Schmidel ex Schreb.) Loeske	51
***	<i>Barbilophozia hatcheri</i> (A.Evans) Loeske	51
***	<i>Barbilophozia lycopodioides</i> (Wallr.) Loeske	51
***	<i>Barbilophozia rubescens</i> (R.M.Schust. et Damsh.) Kartt. et L.Söderstr.	51
***	<i>Barbilophozia sudetica</i> (Nees ex Huebener) L.Söderstr., De Roo et Hedde	51
***	<i>Bazzania acanthostipa</i> Spruce	146
***	<i>Bazzania accreta</i> (Lehm. et Lindenb.) Trevis.	146
**	<i>Bazzania acinaciformis</i> Steph.	146
**	<i>Bazzania acuminata</i> (Lindenb. et Gottsche) Trevis.	146
**	<i>Bazzania acutifolia</i> (Steph.) Schiffn.	146
***	<i>Bazzania adnexa</i> (Lehm. et Lindenb.) Trevis.	146
**	<i>Bazzania adnexa</i> var. <i>aucklandica</i> (Lindenb. et Gottsche) J.J.Engel et G.L.Merr.	146
***	<i>Bazzania affinis</i> (Lindenb. et Gottsche) Trevis.	146
**	<i>Bazzania albifolia</i> Horik.	146
**	<i>Bazzania ambigua</i> (Lindenb.) Trevis.	146
***	<i>Bazzania amblyphylla</i> Meagher	146
**	<i>Bazzania aneityensis</i> (Steph.) Tixier	146
**	<i>Bazzania angusta</i> (Steph.) Herzog	146
**	<i>Bazzania angustifalcata</i> Herzog	146
**	<i>Bazzania angustifolia</i> Horik.	147
**	<i>Bazzania angustisedens</i> (Steph.) N.Kitag.	147
**	<i>Bazzania angustistipula</i> N.Kitag.	147
***	<i>Bazzania appendiculata</i> (Mitt.) S.Hatt.	147
**	<i>Bazzania approximata</i> Onr.	147
**	<i>Bazzania arcuata</i> (Lindenb. et Gottsche) Trevis.	147
**	<i>Bazzania arcuata</i> var. <i>mamillosa</i> Gradst. et A.R.Benitez	147
**	<i>Bazzania armatistipula</i> (Steph.) Fulford	147
**	<i>Bazzania asperrima</i> Steph.	147
*	<i>Bazzania asymmetrica</i> (Steph.) N.Kitag.	147
**	<i>Bazzania aterrima</i> (Steph.) N.Kitag.	147
***	<i>Bazzania aurescens</i> Spruce	147
**	<i>Bazzania avia</i> Meagher	147
**	<i>Bazzania azorica</i> H.Buch et Perss.	147
**	<i>Bazzania baldwinii</i> Austin	147
**	<i>Bazzania bernieri</i> (Steph.) Inoue et H.A.Mill.	147
***	<i>Bazzania bescherellei</i> Steph.	147
**	<i>Bazzania bhutanica</i> N.Kitag. et Grolle	147
**	<i>Bazzania bicrenata</i> N.Kitag.	147
***	<i>Bazzania bidens</i> (Gottsche et Lindenb.) Trevis.	148
**	<i>Bazzania bidens</i> var. <i>heterodonta</i> Spruce	148
**	<i>Bazzania bidentula</i> (Steph.) Yasuda	148
***	<i>Bazzania bilobata</i> N.Kitag.	148
**	<i>Bazzania borneensis</i> N.Kitag.	148
**	<i>Bazzania brasiliensis</i> (Gottsche et Lindenb.) Trevis.	148
**	<i>Bazzania brighamii</i> (Austin) A.Evans	148
**	<i>Bazzania cadens</i> N.Kitag.	148
***	<i>Bazzania calcarata</i> (Sande Lac.) Schiffn.	148
**	<i>Bazzania callida</i> (Sande Lac. ex Steph.) Abeyw.	148
***	<i>Bazzania canelensis</i> (Steph.) Fulford	148
**	<i>Bazzania caudata</i> (Steph.) Herzog	148
***	<i>Bazzania caudistipula</i> (Steph.) Inoue et H.A.Mill.	148

**	<i>Bazzania ceylanica</i> (Mitt.) Steph.	148
**	<i>Bazzania chilensis</i> (Steph.) Fulford	148
***	<i>Bazzania chimantensis</i> Fulford	148
**	<i>Bazzania cincinnata</i> (De Not.) Trevis.	149
***	<i>Bazzania citharodes</i> Meagher	149
**	<i>Bazzania combinata</i> (J.B.Jack et Steph.) Steph.	149
**	<i>Bazzania commutata</i> (Lindenb. et Gottsche) Schiffn.	149
*	<i>Bazzania comorensis</i> Steph.	149
**	<i>Bazzania confertifolia</i> (Steph.) Herzog	149
**	<i>Bazzania consistipula</i> (Steph.) H.A.Mill.	149
**	<i>Bazzania conophylla</i> (Sande Lac.) Schiffn.	149
**	<i>Bazzania consanguinea</i> (Hampe et Lindenb.) Trevis.	149
**	<i>Bazzania consociata</i> (Steph.) H.A.Mill.	149
*	<i>Bazzania corbieri</i> (Steph.) Meagher	149
**	<i>Bazzania crassidentata</i> Fulford	149
**	<i>Bazzania crassitexta</i> Steph.	149
*	<i>Bazzania crenata</i> (Trevis.) Trevis.	149
**	<i>Bazzania cubensis</i> (Gottsche ex Steph.) Pagán	149
**	<i>Bazzania cucullata</i> Onr.	150
***	<i>Bazzania cuneistipula</i> (Gottsche et Lindenb.) Trevis.	150
*	<i>Bazzania curvidens</i> Steph.	150
**	<i>Bazzania debilis</i> N.Kitag.	150
**	<i>Bazzania deciduifolia</i> Onr.	150
***	<i>Bazzania decrescens</i> (Lehm. et Lindenb.) Trevis.	150
**	<i>Bazzania decrescens</i> var. <i>dentistipula</i> Kiaer et Pearson	150
**	<i>Bazzania decrescens</i> subsp. <i>molleri</i> (Steph.) E.W.Jones	150
**	<i>Bazzania decrescens</i> subsp. <i>pumila</i> (Mitt.) Pócs	150
**	<i>Bazzania densa</i> (Sande Lac.) Schiffn.	150
**	<i>Bazzania densa</i> var. <i>connata</i> (Sande Lac.) Schiffn.	150
***	<i>Bazzania denticulata</i> (Lindenb. et Gottsche) Trevis.	150
**	<i>Bazzania denticulifera</i> Mägd.	150
**	<i>Bazzania denudata</i> (Lindenb. et Gottsche) Trevis.	150
***	<i>Bazzania deplanchei</i> (Gottsche) Jovet-Ast	150
**	<i>Bazzania deplanchei</i> var. <i>filamentosa</i> Tixier	150
**	<i>Bazzania desciscens</i> (Steph.) Meijer	150
**	<i>Bazzania didericiana</i> (Gottsche ex Steph.) Steph.	151
**	<i>Bazzania diminuta</i> Herzog	151
*	<i>Bazzania distans</i> (Nees) Trevis.	151
***	<i>Bazzania diversicuspis</i> Spruce	151
**	<i>Bazzania drepanophylla</i> Herzog	151
**	<i>Bazzania dulitensis</i> Herzog	151
**	<i>Bazzania dulongensis</i> L.P.Zhou et Li Zhang	151
**	<i>Bazzania eggersiana</i> (Steph.) Pagán	151
**	<i>Bazzania elmeri</i> (Steph.) N.Kitag.	151
**	<i>Bazzania elongata</i> Fulford	151
**	<i>Bazzania emarginata</i> (Steph.) C.M.Cooke	151
**	<i>Bazzania engelii</i> Glenny	151
***	<i>Bazzania erosa</i> (Reinw., Blume et Nees) Trevis.	151
**	<i>Bazzania erosa</i> var. <i>pulopenangensis</i> (Lindenb. et Gottsche) Schiffn.	151
***	<i>Bazzania exempta</i> J.J.Engel	151
***	<i>Bazzania falcata</i> (Lindenb.) Trevis.	151
**	<i>Bazzania falcifolia</i> (Steph.) H.A.Mill.	151

* <i>Bazzania fallax</i> (Sande Lac.) Schiffn.	152
*** <i>Bazzania fasciculata</i> (Steph.) Meagher.....	152
** <i>Bazzania fauriana</i> (Steph.) S.Hatt.	152
** <i>Bazzania filiformis</i> Steph.	152
*** <i>Bazzania flaccida</i> (Dumort.) Grolle.....	152
** <i>Bazzania flavescens</i> (Sande Lac. ex Steph.) Schiffn.	152
** <i>Bazzania fleischeri</i> (Steph.) Abeyw.	152
* <i>Bazzania francana</i> (Steph.) N.Kitag.	152
** <i>Bazzania friabilis</i> N.Kitag. et T.Kodama.....	152
*** <i>Bazzania fuhreri</i> Meagher	152
** <i>Bazzania fuscescens</i> A.Evans.....	152
*** <i>Bazzania gamscottii</i> Meagher.....	152
*** <i>Bazzania gedeana</i> (Steph.) Meijer.....	152
*** <i>Bazzania gracilis</i> (Hampe et Gottsche) Steph.	152
** <i>Bazzania grandiretis</i> (Steph.) Herzog	152
** <i>Bazzania griffithiana</i> (Steph.) Mizut.	152
** <i>Bazzania gunniana</i> (Steph.) H.A.Mill.	152
** <i>Bazzania hainanensis</i> L.P.Zhou et Li Zhang.....	153
** <i>Bazzania halconiensis</i> (Steph.) N.Kitag.	153
** <i>Bazzania hamatifolia</i> (Steph.) H.A.Mill.	153
** <i>Bazzania harpago</i> (De Not.) Schiffn.....	153
** <i>Bazzania hebridensis</i> (Steph.) H.A.Mill.	153
** <i>Bazzania herminieri</i> (Gottsche ex Steph.) Pagán	153
** <i>Bazzania herzogiana</i> Meijer.....	153
** <i>Bazzania heterostipa</i> (Steph.) Fulford	153
*** <i>Bazzania himalayana</i> (Mitt.) Schiffn.....	153
*** <i>Bazzania hochstetteri</i> (Reichardt) E.A.Hodgs.	153
*** <i>Bazzania hookeri</i> (Lindenb.) Trevis.	153
** <i>Bazzania horridula</i> Schiffn.	153
** <i>Bazzania inaequabilis</i> Steph.	153
** <i>Bazzania inaequitexta</i> Steph.	153
** <i>Bazzania incrassata</i> (Steph.) N.Kitag.....	153
** <i>Bazzania indica</i> (Gottsche et Lindenb.) Trevis.	153
** <i>Bazzania indigenarum</i> (Steph.) N.Kitag.....	154
** <i>Bazzania insignis</i> (De Not.) Trevis.	154
* <i>Bazzania intermedia</i> (Gottsche et Lindenb.) Trevis.	154
** <i>Bazzania intermedia</i> var. <i>sarawakiana</i> (De Not.) Schiffn.	154
** <i>Bazzania involuta</i> (Mont.) Trevis.....	154
** <i>Bazzania involuta</i> var. <i>submutica</i> (Lindenb. et Gottsche) J.J.Engel et G.L.Merr.	154
** <i>Bazzania involutiformis</i> (De Not.) Trevis.	154
** <i>Bazzania irregularis</i> (Steph.) Schiffn.....	154
*** <i>Bazzania jamaicensis</i> (Lehm. et Lindenb.) Trevis.	154
** <i>Bazzania japonica</i> (Sande Lac.) Lindb.....	154
** <i>Bazzania japonica</i> var. <i>sumatrana</i> Herzog.....	154
** <i>Bazzania javanica</i> (Sande Lac.) Schiffn.	154
** <i>Bazzania kernii</i> Steph.	154
** <i>Bazzania kokawana</i> N.Kitag. et T.Kodama.....	154
** <i>Bazzania latifolia</i> Steph.....	154
* <i>Bazzania lehmanniana</i> (Lindenb.) Trevis.	155
** <i>Bazzania leratii</i> (Beauverd) H.A.Mill.....	155
** <i>Bazzania lessonii</i> (Steph.) H.A.Mill.	155
** <i>Bazzania levieri</i> (Steph.) N.Kitag.	155

**	<i>Bazzania liebmaniana</i> (Lindenb. et Gottsche) Trevis.	155
**	<i>Bazzania linearis</i> Herzog.....	155
**	<i>Bazzania linguiformis</i> (Sande Lac.) Trevis.	155
***	<i>Bazzania longa</i> (Nees) Trevis.	155
**	<i>Bazzania longa</i> var. <i>papillata</i> (Steph.) Fulford	155
***	<i>Bazzania longicaulis</i> (Sande Lac.) Schiffn.	155
**	<i>Bazzania longicaulis</i> var. <i>latiareata</i> Herzog.....	155
***	<i>Bazzania longistipula</i> (Lindenb.) Trevis.....	155
***	<i>Bazzania loricata</i> (Reinw., Blume et Nees) Trevis.	155
**	<i>Bazzania lowii</i> (Sande Lac. ex Steph.) Schiffn.	155
**	<i>Bazzania luzonensis</i> (Steph.) Del Ros.	156
**	<i>Bazzania macgregorii</i> Steph.	156
**	<i>Bazzania macrostipula</i> Fulford	156
**	<i>Bazzania magna</i> Horik.....	156
**	<i>Bazzania magnistipula</i> N.Kitag.	156
**	<i>Bazzania malaccensis</i> (Steph.) Tixier	156
**	<i>Bazzania manillana</i> (Gottsche ex Steph.) S.Hatt.....	156
*	<i>Bazzania marginata</i> (Steph.) N.Kitag.....	156
**	<i>Bazzania marginella</i> (Herzog) N.Kitag. et T.Kodama	156
*	<i>Bazzania mascarena</i> (Steph.) Herzog.....	156
**	<i>Bazzania mayebarae</i> S.Hatt.	156
*	<i>Bazzania menzelii</i> E.D.Cooper	156
**	<i>Bazzania merrillana</i> (Steph.) Inoue ex Bonner	156
**	<i>Bazzania minuta</i> (Austin) A.Evans.....	156
**	<i>Bazzania minutidens</i> (Steph.) Inoue et H.A.Mill.....	156
**	<i>Bazzania minutiserra</i> (Steph.) N.Kitag.	156
**	<i>Bazzania missionum</i> (Herzog) Jovet-Ast.....	157
**	<i>Bazzania mittenii</i> (Steph.) Steph.....	157
***	<i>Bazzania monilinervis</i> (Lehm. et Lindenb.) Trevis.....	157
**	<i>Bazzania morokensis</i> (Steph.) Grolle.....	157
***	<i>Bazzania nitida</i> (F.Weber) Grolle	157
***	<i>Bazzania novae-zelandiae</i> (Mitt.) Besch. et C.Massal.....	157
**	<i>Bazzania nudicaulis</i> A.Evans	157
**	<i>Bazzania nuuanuensis</i> C.M.Cooke	157
**	<i>Bazzania obtusata</i> (Steph.) H.A.Mill.	157
**	<i>Bazzania obtusata</i> (Mitt.) Abeyw.	157
**	<i>Bazzania okaritana</i> Meagher et Glenny.....	157
**	<i>Bazzania orbani</i> Pócs	157
**	<i>Bazzania ovistipula</i> (Steph.) Abeyw.....	157
**	<i>Bazzania pallidevirens</i> (Steph.) Fulford	157
**	<i>Bazzania papillosa</i> S.W.Arnell.....	157
**	<i>Bazzania paradoxa</i> (Sande Lac.) Steph.	157
***	<i>Bazzania parisii</i> (Steph.) N.Kitag.....	157
**	<i>Bazzania parvitexta</i> Steph.	158
**	<i>Bazzania patens</i> (Mont.) Trevis.....	158
**	<i>Bazzania patentistipa</i> (Sande Lac.) Schiffn.....	158
**	<i>Bazzania paucidens</i> (Steph.) H.A.Mill.....	158
**	<i>Bazzania pearsonii</i> Steph.....	158
***	<i>Bazzania pectinata</i> (Lindenb. et Gottsche) Schiffn.	158
**	<i>Bazzania perfalcata</i> N.Kitag.	158
**	<i>Bazzania perrotana</i> E.W.Jones	158
**	<i>Bazzania peruviana</i> (Nees) Trevis.	158

***	<i>Bazzania phyllobola</i> Spruce	158
***	<i>Bazzania placophylla</i> (Taylor) Grolle	158
**	<i>Bazzania platycnema</i> (Schwägr. ex Steph.) H.A.Mill.	158
**	<i>Bazzania pompeana</i> (Sande Lac.) Mitt.	158
***	<i>Bazzania praerupta</i> (Reinw., Blume et Nees) Trevis.	158
*	<i>Bazzania praerupta</i> var. <i>obliquata</i> (Nees) Schiffn.	158
**	<i>Bazzania praerupta</i> var. <i>thermalis</i> Schiffn.	158
**	<i>Bazzania pseudovittata</i> N.Kitag. et T.Kodama	159
**	<i>Bazzania pusilla</i> (Mitt.) Steph.	159
**	<i>Bazzania pycnophylla</i> (Taylor) Trevis.	159
**	<i>Bazzania quadratistipula</i> H.A.Mill.	159
**	<i>Bazzania rabenhorstii</i> (Steph.) Abeyw.	159
**	<i>Bazzania recurva</i> (Mont.) Trevis.	159
*	<i>Bazzania recurva</i> var. <i>major</i> (Sande Lac.) Schiffn.	159
**	<i>Bazzania reflexa</i> (Gottsche) Steph.	159
**	<i>Bazzania reinwardtii</i> (Sande Lac.) Schiffn.	159
**	<i>Bazzania renistipula</i> Steph.	159
**	<i>Bazzania revoluta</i> (Steph.) N.Kitag.	159
***	<i>Bazzania rimosa</i> Meagher.....	159
**	<i>Bazzania roccatii</i> Gola.....	159
***	<i>Bazzania roraimensis</i> (Steph.) Fulford	159
**	<i>Bazzania sandvicensis</i> (Gottsche ex Steph.) Steph.	159
**	<i>Bazzania sauropoda</i> Meagher	159
***	<i>Bazzania scalaris</i> Meagher.....	159
***	<i>Bazzania schlimiana</i> (Gottsche) Fulford.....	159
**	<i>Bazzania schultze-motellii</i> N.Kitag.....	159
**	<i>Bazzania schusterana</i> N.Kitag.....	160
***	<i>Bazzania schwaneckiana</i> (Hampe et Gottsche) Trevis.....	160
*	<i>Bazzania scutigera</i> (Nees et Mont.) Trevis.....	160
**	<i>Bazzania semicordata</i> (Lindenb. et Gottsche) Kuntze	160
*	<i>Bazzania serpentina</i> (Nees) Trevis.	160
**	<i>Bazzania serrapiculata</i> Inoue et H.A.Mill.	160
**	<i>Bazzania serrata</i> Fulford	160
**	<i>Bazzania serrulatoides</i> Horik.	160
*	<i>Bazzania sikkimensis</i> (Steph.) Herzog.....	160
**	<i>Bazzania spinosa</i> S.Okamura.....	160
**	<i>Bazzania spiralis</i> (Reinw., Blume et Nees) Meijer	160
**	<i>Bazzania spruceana</i> Steph.....	160
**	<i>Bazzania squarrosa</i> (Steph.) H.A.Mill.	160
***	<i>Bazzania stolonifera</i> (Sw.) Trevis.	160
*	<i>Bazzania stolonifera</i> var. <i>granatensis</i> (Gottsche) Fulford.....	160
**	<i>Bazzania stresemannii</i> (Herzog) N.Kitag.	160
**	<i>Bazzania subacuta</i> (Mitt.) Steph.....	161
**	<i>Bazzania subaequitexta</i> (Steph.) N.Kitag.	161
**	<i>Bazzania subintegra</i> (Steph.) L.Söderstr. et A.Hagborg	161
**	<i>Bazzania sublonga</i> Fulford.....	161
**	<i>Bazzania subserrifolia</i> (Beauverd) H.A.Mill.	161
**	<i>Bazzania subserrulata</i> A.Evans.....	161
***	<i>Bazzania subtilis</i> (Sande Lac.) Trevis.....	161
**	<i>Bazzania succulenta</i> N.Kitag.	161
**	<i>Bazzania sumatrana</i> (Sande Lac. ex Steph.) Steph.....	161
*	<i>Bazzania sumbavensis</i> (Gottsche ex Steph.) Steph.....	161

***	<i>Bazzania taleana</i> (Gottsche) Fulford.....	161
***	<i>Bazzania tayloriana</i> (Mitt.) Kuntze.....	161
**	<i>Bazzania temariana</i> (Steph.) H.A.Mill.....	161
***	<i>Bazzania tessellata</i> Meagher.....	161
**	<i>Bazzania tiaoloensis</i> Mizut. et K.C.Chang.....	161
***	<i>Bazzania tricrenata</i> (Wahlenb.) Lindb.....	161
**	<i>Bazzania tricrenata</i> var. <i>fulfordiae</i> W.S.Hong.....	161
***	<i>Bazzania tridens</i> (Reinw., Blume et Nees) Trevis.....	162
***	<i>Bazzania tridens</i> var. <i>assamica</i> (Steph.) Pócs.....	162
**	<i>Bazzania tridens</i> var. <i>cornutistipula</i> (Steph.) Pócs.....	162
***	<i>Bazzania trilobata</i> (L.) Gray.....	162
**	<i>Bazzania trilobata</i> var. <i>depauperata</i> (Müll.Frib.) Grolle.....	162
***	<i>Bazzania uncigera</i> (Reinw., Blume et Nees) Trevis.....	162
**	<i>Bazzania uncigera</i> var. <i>brevifolia</i> Herzog.....	162
**	<i>Bazzania uncigera</i> var. <i>gibba</i> (Sande Lac.) Meijer.....	162
**	<i>Bazzania undulata</i> Herzog.....	162
**	<i>Bazzania vietnamica</i> Pócs.....	162
**	<i>Bazzania vitiana</i> Mitt.....	162
***	<i>Bazzania vittata</i> (Gottsche) Trevis.....	162
**	<i>Bazzania vittata</i> var. <i>luxurians</i> (De Not.) Schiffn.....	162
**	<i>Bazzania wallichiana</i> (Lindenb.) Trevis.....	162
**	<i>Bazzania watanabei</i> Inoue.....	162
*	<i>Bazzania wattsiana</i> (Steph.) Meagher.....	162
**	<i>Bazzania wiltensii</i> (Sande Lac. ex Steph.) Schiffn.....	163
**	<i>Bazzania wooroonoran</i> Meagher.....	163
**	<i>Bazzania wrightii</i> (Gottsche ex Steph.) Steph.....	163
**	<i>Bazzania yoshinagana</i> (Steph.) Yasuda.....	163
**	<i>Bazzania zollingeri</i> (Lindenb.) Trevis.....	163
***	<i>Bazzania zonulata</i> Meagher.....	163
***	<i>Biantberidion undulifolium</i> (Nees) Konstant. et Vilnet.....	52
***	<i>Blasia pusilla</i> L.....	476
***	<i>Blepharidophyllum densifolium</i> (Hook.) Ångstr. ex C.Massal.....	103
***	<i>Blepharidophyllum vertebrale</i> (Gottsche) Ångstr. ex C.Massal.....	103
***	<i>Blepharolejeunea chimantaensis</i> van Slageren et Kruijt.....	298
***	<i>Blepharolejeunea fuegiana</i> (Besch. et C.Massal.) Gradst.....	298
***	<i>Blepharolejeunea incongrua</i> (Lindenb. et Gottsche) van Slageren et Kruijt.....	298
***	<i>Blepharolejeunea saccata</i> (Steph.) van Slageren et Kruijt.....	298
***	<i>Blepharolejeunea securifolia</i> (Steph.) R.M.Schust.....	298
**	<i>Blepharostoma arachnoideum</i> M.Howe.....	137
**	<i>Blepharostoma indicum</i> G.Asthana, M.Saxena et Maurya.....	137
**	<i>Blepharostoma minor</i> Horik.....	137
***	<i>Blepharostoma trichophyllum</i> (L.) Dumort.....	137
**	<i>Blepharostoma trichophyllum</i> subsp. <i>brevirete</i> (Bryhn et Kaal.) R.M.Schust.....	137
***	<i>Brachiolejeunea conduplicata</i> (Steph.) Gradst.....	298
***	<i>Brachiolejeunea fernandeziana</i> S.W.Arnell.....	298
***	<i>Brachiolejeunea laxifolia</i> (Taylor) Schiffn.....	298
***	<i>Brachiolejeunea leiboldiana</i> (Gottsche et Lindenb.) Schiffn.....	298
***	<i>Brachiolejeunea phyllorhiza</i> (Nees) Kruijt et Gradst.....	298
***	<i>Brachiolejeunea spruceana</i> (C.Massal.) Schiffn.....	298
***	<i>Bragginsella anomala</i> R.M.Schust.....	189
***	<i>Brevianthus flavus</i> (Grolle) J.J.Engel et R.M.Schust.....	137
**	<i>Brevianthus flavus</i> subsp. <i>crenulatus</i> J.J.Engel.....	137

* <i>Brevianthus hypocanthidium</i> M.A.M.Renner et J.J.Engel.....	137
*** <i>Bromeliophila helenae</i> Gradst.....	350
*** <i>Bromeliophila natans</i> (Steph.) R.M.Schust.....	351
*** <i>Bryopteris diffusa</i> (Sw.) Nees.....	403
*** <i>Bryopteris filicina</i> (Sw.) Nees.....	403
* <i>Bryopteris fissiloba</i> Steph.....	403
*** <i>Bryopteris gaudichaudii</i> Gottsche.....	403
*** <i>Bucegia romanica</i> Radian.....	488
*** <i>Calatholejeunea lamii</i> Mizut.....	317
*** <i>Calatholejeunea paradoxa</i> (Schiffn.) K.I.Goebel.....	317
*** <i>Calycularia crispula</i> Mitt.....	463
*** <i>Calycularia laxa</i> Lindb. et Arnell.....	463
*** <i>Calypogeia aeruginosa</i> Mitt.....	106
* <i>Calypogeia amazonica</i> (Spruce) Steph.....	106
*** <i>Calypogeia andicola</i> Bischl.....	104
** <i>Calypogeia angusta</i> Steph.....	106
** <i>Calypogeia annabonensis</i> Steph.....	104
** <i>Calypogeia apiculata</i> (Steph.) Steph.....	106
*** <i>Calypogeia arguta</i> Nees et Mont.....	104
** <i>Calypogeia asakawana</i> S.Hatt. ex Inoue.....	106
** <i>Calypogeia azorica</i> Bischl.....	104
*** <i>Calypogeia azurea</i> Stotler et Crotz.....	104
*** <i>Calypogeia bidentula</i> (F.Weber) Nees.....	104
** <i>Calypogeia ceylanica</i> S.Hatt. et Mizut.....	106
** <i>Calypogeia contracta</i> Inoue.....	106
** <i>Calypogeia cuspidata</i> (Steph.) Steph.....	106
* <i>Calypogeia decurrens</i> (Steph.) Steph.....	106
** <i>Calypogeia falcata</i> Bischl.....	104
*** <i>Calypogeia fissa</i> (L.) Raddi.....	104
** <i>Calypogeia fissa</i> subsp. <i>neogaea</i> R.M.Schust.....	104
** <i>Calypogeia formosana</i> Horik.....	106
** <i>Calypogeia fujijsana</i> Inoue.....	106
** <i>Calypogeia goebelii</i> (Schiffn.) Steph.....	104
** <i>Calypogeia goebelii</i> var. <i>siamensis</i> N.Kitag.....	104
*** <i>Calypogeia grandistipula</i> (Steph.) Steph.....	104
** <i>Calypogeia granulata</i> Inoue.....	106
*** <i>Calypogeia integristipula</i> Steph.....	104
** <i>Calypogeia japonica</i> Steph.....	106
** <i>Calypogeia khasiana</i> Ajit P.Singh et V.Nath.....	106
** <i>Calypogeia latissima</i> Steph.....	106
*** <i>Calypogeia laxa</i> Gottsche et Lindenb.....	104
*** <i>Calypogeia lechleri</i> (Steph.) Steph.....	104
** <i>Calypogeia lechleri</i> var. <i>densifolia</i> (Steph.) Bischl.....	104
** <i>Calypogeia longifolia</i> Steph.....	104
** <i>Calypogeia lophocoleoides</i> Steph.....	104
*** <i>Calypogeia lunata</i> Mitt.....	106
** <i>Calypogeia marginella</i> Mitt.....	107
** <i>Calypogeia mascarenensis</i> Bischl.....	105
** <i>Calypogeia microstipula</i> (Steph.) Steph.....	105
*** <i>Calypogeia miquelii</i> Mont. ex Gottsche, Lindenb. et Nees.....	105
*** <i>Calypogeia muelleriana</i> (Schiffn.) Müll.Frib.....	105
** <i>Calypogeia muelleriana</i> subsp. <i>blomquistii</i> R.M.Schust.....	105

***	<i>Calypogeia neesiana</i> (C.Massal. et Carestia) Müll.Frib.	105
**	<i>Calypogeia neesiana</i> subsp. <i>subalpina</i> (Inoue) Inoue	105
***	<i>Calypogeia oblata</i> Herzog	105
**	<i>Calypogeia obovata</i> R.M.Schust.	107
***	<i>Calypogeia peruviana</i> Nees et Mont.	105
***	<i>Calypogeia rhombifolia</i> (Spruce) Steph.	105
**	<i>Calypogeia rhombifolia</i> var. <i>colombiana</i> Bischl.	105
***	<i>Calypogeia sphagnicola</i> (Arnell et J.Perss.) Warnst. et Loeske	105
*	<i>Calypogeia steyermarkii</i> Fulford	107
***	<i>Calypogeia subintegra</i> (Gottsche, Lindenb. et Nees) Bischl.	105
**	<i>Calypogeia subintegra</i> var. <i>dussiana</i> (Steph.) Bischl.	105
***	<i>Calypogeia suecica</i> (Arnell et J.Perss.) Müll.Frib.	106
**	<i>Calypogeia sullivantii</i> Austin	104
***	<i>Calypogeia tenax</i> (Spruce) Steph.	106
**	<i>Calypogeia tosana</i> (Steph.) Steph.	107
**	<i>Calypogeia udarii</i> Sudipa Das et D.K.Singh	107
**	<i>Calypogeia uncinulatula</i> Herzog	106
**	<i>Capillolejeunea geisslerae</i> (Pócs) R.L.Zhu, Qiong He, Y.M.Wei et Pócs	353
**	<i>Capillolejeunea mascarena</i> S.W.Arnell	353
***	<i>Castanoclobos julaceus</i> (Hatcher ex J.J.Engel) J.J.Engel et Glenney	254
**	<i>Caudalejeunea acutifolia</i> Gerola	404
**	<i>Caudalejeunea africana</i> (Steph.) Schiffn.	404
***	<i>Caudalejeunea cristiloba</i> (Steph.) Gradst.	404
***	<i>Caudalejeunea cristiloba</i> subsp. <i>samoana</i> (Steph.) Gradst.	404
**	<i>Caudalejeunea dusenii</i> Steph.	404
***	<i>Caudalejeunea grolleana</i> Gradst.	403
***	<i>Caudalejeunea hanningtonii</i> (Mitt.) Schiffn.	404
**	<i>Caudalejeunea katangensis</i> Vanden Berghen	404
***	<i>Caudalejeunea lehmanniana</i> (Gottsche) A.Evans	404
**	<i>Caudalejeunea lewallei</i> Vanden Berghen	404
*	<i>Caudalejeunea mauritiana</i> Horik.	404
***	<i>Caudalejeunea reniloba</i> (Gottsche) Steph.	404
**	<i>Caudalejeunea streimannii</i> Gyarmati	404
**	<i>Caudalejeunea tridentata</i> R.L.Zhu, Y.M.Wei et Qiong He	404
**	<i>Caudalejeunea yangambiensis</i> (Vanden Berghen) E.W.Jones	404
***	<i>Cavicularia densa</i> Steph.	476
***	<i>Cephalantholejeunea temnanthoides</i> (R.M.Schust.) R.M.Schust.	405
***	<i>Cephalojonesia incuba</i> Grolle et Vanden Berghen	66
***	<i>Cephalojonesia incuba</i> subsp. <i>mexicana</i> Burghardt, Gradst. et Vána	66
***	<i>Cephalolejeunea parvilobula</i> Mizut.	405
***	<i>Cephalomitron aterrimum</i> (Steph.) R.M.Schust.	66
***	<i>Cephalozia acuminata</i> (Herzog) Vána	57
**	<i>Cephalozia acutiloba</i> (Inoue) Vána	57
***	<i>Cephalozia albula</i> Steph.	57
***	<i>Cephalozia ambigua</i> C.Massal.	57
***	<i>Cephalozia austrigena</i> R.M.Schust. ex J.J.Engel	57
***	<i>Cephalozia badia</i> (Gottsche) Steph.	57
***	<i>Cephalozia bicuspidata</i> (L.) Dumort.	57
*	<i>Cephalozia bicuspidata</i> subsp. <i>lammersiana</i> (Huebener) R.M.Schust.	57
***	<i>Cephalozia chilensis</i> (J.J.Engel et R.M.Schust.) R.M.Schust.	57
***	<i>Cephalozia conchata</i> (Grolle et Vána) Vána	57
***	<i>Cephalozia crossii</i> Spruce	57

***	<i>Cephalozia darjeelingensis</i> Udar et D.Kumar.....	57
***	<i>Cephalozia drucei</i> (R.M.Schust.) Váňa	58
***	<i>Cephalozia fuegiensis</i> Váňa.....	58
***	<i>Cephalozia hamatiloba</i> Steph.....	58
***	<i>Cephalozia hamatiloba</i> subsp. <i>siamensis</i> (N.Kitag.) Váňa	58
*	<i>Cephalozia hians</i> Steph.....	59
*	<i>Cephalozia indica</i> Udar et D.Kumar	59
*	<i>Cephalozia kodaikanalensis</i> G.Asthana et Saumya Srivast.....	59
***	<i>Cephalozia lacunculata</i> (J.B.Jack ex Gottsche et Rabenh.) Spruce	58
***	<i>Cephalozia lucens</i> (A.Evans) Steph.....	58
***	<i>Cephalozia macgregorii</i> (Steph.) Váňa.....	58
***	<i>Cephalozia macounii</i> (Austin) Austin.....	58
***	<i>Cephalozia maxima</i> Steph.	58
***	<i>Cephalozia mollusca</i> (De Not.) Váňa	58
*	<i>Cephalozia neesiana</i> Steph.	58
***	<i>Cephalozia nishimurae</i> (N.Kitag.) Váňa.....	58
**	<i>Cephalozia pachygyna</i> R.M.Schust. ex J.J.Engel	58
*	<i>Cephalozia parvifolia</i> Arnell.....	59
**	<i>Cephalozia physocaula</i> (Hook.f. et Taylor) Steph.....	58
**	<i>Cephalozia schusteriana</i> J.J.Engel.....	58
***	<i>Cephalozia stolonacea</i> (Herzog) Váňa.....	58
*	<i>Cephalozia tricuspidata</i> (Nees) Trevis.	59
***	<i>Cephalozia tubulata</i> (Hook.f. et Taylor) Trevis.	58
***	<i>Cephaloziella acanthophora</i> (S.Hatt.) Horik.....	71
***	<i>Cephaloziella aenigmatica</i> R.M.Schust.....	66
***	<i>Cephaloziella anthelioides</i> S.W.Arnell	66
***	<i>Cephaloziella antillana</i> (Besch. et Spruce) Fulford.....	70
***	<i>Cephaloziella arctogena</i> (R.M.Schust.) Konstant	66
**	<i>Cephaloziella arenaria</i> (Steph.) R.M.Schust.....	66
***	<i>Cephaloziella aspericaulis</i> Jørg.....	66
***	<i>Cephaloziella baumgartneri</i> Schiffn.....	66
***	<i>Cephaloziella biokoensis</i> Váňa et Frank Müll.....	71
**	<i>Cephaloziella breviperianthia</i> C.Gao	66
**	<i>Cephaloziella brinkmannii</i> Douin.....	66
***	<i>Cephaloziella calyculata</i> (Durieu et Mont.) Müll.Frib.....	70
***	<i>Cephaloziella capensis</i> (Sim) S.W.Arnell.....	66
***	<i>Cephaloziella capillaris</i> (Steph.) Douin	67
***	<i>Cephaloziella crassigyna</i> (R.M.Schust.) R.M.Schust.	67
***	<i>Cephaloziella crispata</i> N.Kitag.	67
***	<i>Cephaloziella densifolia</i> R.M.Schust.....	67
**	<i>Cephaloziella densifolia</i> var. <i>dubia</i> R.M.Schust.	67
***	<i>Cephaloziella dentata</i> (Raddi) Steph.	70
**	<i>Cephaloziella dentifolia</i> Udar et Ad.Kumar.....	71
***	<i>Cephaloziella divaricata</i> (Sm.) Schiffn.	67
**	<i>Cephaloziella divaricata</i> var. <i>scabra</i> (M.Howe) Haynes	67
**	<i>Cephaloziella dusenii</i> Steph.....	67
***	<i>Cephaloziella elachista</i> (J.B.Jack ex Gottsche et Rabenh.) Schiffn.....	67
**	<i>Cephaloziella elachista</i> var. <i>spinophylla</i> (C.Gao) C.Gao	67
**	<i>Cephaloziella elegans</i> (Heeg) Schiffn.	67
***	<i>Cephaloziella exigua</i> R.M.Schust.	67
***	<i>Cephaloziella exiliflora</i> (Taylor) Douin.....	67
**	<i>Cephaloziella filum</i> (Trevis.) Steph.	71

* <i>Cephaloziella flexuosa</i> C.Gao et K.C.Chang.....	71
** <i>Cephaloziella fragillima</i> (Spruce) Fulford.....	67
*** <i>Cephaloziella garsidei</i> S.W.Arnell.....	67
*** <i>Cephaloziella granatensis</i> (J.B.Jack ex Steph.) Fulford	71
*** <i>Cephaloziella grandiretis</i> (R.M.Schust.) R.M.Schust.	67
*** <i>Cephaloziella grimsulana</i> (J.B.Jack ex Gottsche et Rabenh.) Lacout.	68
*** <i>Cephaloziella grisea</i> R.M.Schust.	71
*** <i>Cephaloziella hampeana</i> (Nees) Schiffn. ex Loeske.....	68
** <i>Cephaloziella hebridensis</i> Steph.	68
*** <i>Cephaloziella herzogiana</i> (Pandé et K.P.Srivast.) Udar et D.Kumar	68
** <i>Cephaloziella heteroica</i> (C.M.Cooke) Douin.....	68
*** <i>Cephaloziella hirta</i> (Steph.) R.M.Schust.	70
** <i>Cephaloziella hyalina</i> Douin.....	68
* <i>Cephaloziella hyalina</i> var. <i>rappii</i> (Douin) R.M.Schust.	68
*** <i>Cephaloziella inaequalis</i> R.M.Schust.....	68
*** <i>Cephaloziella integerrima</i> (Lindb.) Warnst.....	70
** <i>Cephaloziella intricata</i> Schiffn. ex Douin.....	71
*** <i>Cephaloziella invisia</i> R.M.Schust.	68
** <i>Cephaloziella kilohanensis</i> (C.M.Cooke) Douin.....	68
** <i>Cephaloziella levieri</i> Schiffn. ex Douin.....	72
*** <i>Cephaloziella longii</i> Váňa.....	68
*** <i>Cephaloziella lycopodioides</i> (Sim) S.W.Arnell	68
** <i>Cephaloziella mammillifera</i> R.M.Schust. et Damsh.	68
*** <i>Cephaloziella massalongi</i> (Spruce) Müll.Frib.	68
* <i>Cephaloziella meghalayensis</i> Udar et Ad.Kumar.....	71
*** <i>Cephaloziella microphylla</i> (Steph.) Douin	71
*** <i>Cephaloziella muelleriana</i> R.M.Schust.	68
*** <i>Cephaloziella natalensis</i> (Sim) S.W.Arnell.....	68
** <i>Cephaloziella nicholsonii</i> Douin.....	68
*** <i>Cephaloziella nothogena</i> R.M.Schust.....	68
** <i>Cephaloziella obtusilobula</i> R.M.Schust.....	68
** <i>Cephaloziella patulifolia</i> (Steph.) Douin	69
*** <i>Cephaloziella pellucida</i> R.M.Schust.	72
*** <i>Cephaloziella phyllacantha</i> (C.Massal. et Carestia) Müll.Frib.	69
*** <i>Cephaloziella polystratosa</i> (R.M.Schust. et Damsh.) Konstant.	69
*** <i>Cephaloziella pseudocrassigyna</i> R.M.Schust. ex J.J.Engel.....	69
*** <i>Cephaloziella pulcherrima</i> R.M.Schust.....	69
** <i>Cephaloziella pulcherrima</i> subsp. <i>sphagnicola</i> R.M.Schust.	69
** <i>Cephaloziella pungens</i> Steph. ex Fulford.....	69
* <i>Cephaloziella pygmaea</i> (Spruce) Váňa	72
*** <i>Cephaloziella rubella</i> (Nees) Warnst.	69
*** <i>Cephaloziella schelpei</i> S.W.Arnell.....	69
* <i>Cephaloziella secundifolia</i> Pearson.....	72
** <i>Cephaloziella sinensis</i> Douin	72
*** <i>Cephaloziella spegazziniana</i> (C.Massal.) Douin	69
*** <i>Cephaloziella spinicaulis</i> Douin.....	69
*** <i>Cephaloziella spinigera</i> (Lindb.) Jørg.....	69
** <i>Cephaloziella squarrosula</i> (Trevis.) Steph.	71
*** <i>Cephaloziella stellulifera</i> (Taylor ex Carrington et Pearson) Croz.	69
*** <i>Cephaloziella stephanii</i> Schiffn. ex Douin	69
** <i>Cephaloziella stolonifera</i> R.M.Schust.....	69
*** <i>Cephaloziella subspinosa</i> R.M.Schust.	71

**	<i>Cephaloziella subtilis</i> (Lindenb. et Gottsche) Steph.....	69
***	<i>Cephaloziella sumatrana</i> Schiffn. ex Douin.....	69
***	<i>Cephaloziella tabularis</i> S.W.Arnell.....	69
***	<i>Cephaloziella tenuissima</i> (Lehm.) Steph.....	71
***	<i>Cephaloziella transvaalensis</i> S.W.Arnell.....	69
***	<i>Cephaloziella triplicata</i> S.W.Arnell.....	69
***	<i>Cephaloziella turneri</i> (Hook.) Müll.Frib.....	71
***	<i>Cephaloziella umtaliensis</i> S.W.Arnell.....	70
***	<i>Cephaloziella uncinata</i> R.M.Schust.....	70
**	<i>Cephaloziella uncinata</i> var. <i>brevigynea</i> R.M.Schust. et Damsh.....	70
**	<i>Cephaloziella uncinata</i> var. <i>sphagnicola</i> R.M.Schust.....	70
***	<i>Cephaloziella vaginans</i> Steph.....	70
***	<i>Cephaloziella varians</i> (Gottsche) Steph.....	70
***	<i>Cephaloziella verrucosa</i> Steph.....	70
*	<i>Cephaloziella villaumei</i> (Steph.) Váňa.....	70
**	<i>Cephaloziella violacea</i> Schljakov.....	70
**	<i>Cephaloziella welwitschii</i> (Steph.) Douin.....	70
***	<i>Cephaloziopsis intertexta</i> (Gottsche) R.M.Schust.....	72
***	<i>Ceramanus centipes</i> (Lindenb. et Gottsche) E.D.Cooper.....	169
***	<i>Ceramanus clatritexta</i> (Steph.) E.D.Cooper.....	169
***	<i>Ceramanus elegans</i> (Colenso) E.D.Cooper.....	169
***	<i>Ceramanus grossiseta</i> (Steph.) E.D.Cooper.....	169
***	<i>Ceramanus perfragilis</i> (J.J.Engel et G.L.Merr.) E.D.Cooper.....	169
***	<i>Ceramanus pruinosa</i> (Herzog) E.D.Cooper.....	169
***	<i>Ceramanus tuberifera</i> (J.J.Engel et R.M.Schust.) E.D.Cooper.....	169
**	<i>Ceratolejeunea aliena</i> Herzog.....	303
***	<i>Ceratolejeunea andringitrae</i> Pócs.....	301
**	<i>Ceratolejeunea atlantica</i> Alvarenga et Ilk.-Borg.....	301
***	<i>Ceratolejeunea belangeriana</i> (Gottsche) Steph.....	301
**	<i>Ceratolejeunea beninensis</i> E.W.Jones et Vanden Berghen.....	301
***	<i>Ceratolejeunea brevinervis</i> (Spruce) A.Evans.....	301
***	<i>Ceratolejeunea ceratantha</i> (Nees et Mont.) Schiffn.....	301
**	<i>Ceratolejeunea coalita</i> (Ångstr.) Steph.....	301
***	<i>Ceratolejeunea coarina</i> (Gottsche) Schiffn.....	301
***	<i>Ceratolejeunea confusa</i> R.M.Schust.....	302
***	<i>Ceratolejeunea cornuta</i> (Lindenb.) Steph.....	302
***	<i>Ceratolejeunea cubensis</i> (Mont.) Schiffn.....	302
***	<i>Ceratolejeunea dentistipula</i> Steph.....	302
***	<i>Ceratolejeunea desciscens</i> (Sande Lac.) Schiffn.....	303
***	<i>Ceratolejeunea fallax</i> (Lehm. et Lindenb.) Bonner.....	302
***	<i>Ceratolejeunea filaria</i> (Taylor) Steph.....	302
**	<i>Ceratolejeunea floribunda</i> Steph.....	302
***	<i>Ceratolejeunea globulifera</i> Herzog.....	303
***	<i>Ceratolejeunea grandiloba</i> J.B.Jack et Steph.....	303
**	<i>Ceratolejeunea grandiloba</i> subsp. <i>inflata</i> (Mizut.) Gradst.....	303
***	<i>Ceratolejeunea guianensis</i> (Nees et Mont.) Steph.....	302
*	<i>Ceratolejeunea karstenii</i> Steph.....	302
*	<i>Ceratolejeunea kuerschneri</i> Eb.Fisch. et Vanderp.....	302
***	<i>Ceratolejeunea laetefusca</i> (Austin) R.M.Schust.....	302
*	<i>Ceratolejeunea ledermannii</i> Steph.....	302
***	<i>Ceratolejeunea malleigera</i> (Spruce) Steph.....	302
**	<i>Ceratolejeunea maranbensis</i> Silva Brito et Ilk.-Borg.....	302

**	<i>Ceratolejeunea minor</i> Mizut.....	302
***	<i>Ceratolejeunea minuta</i> G.Dauphin	302
**	<i>Ceratolejeunea moniliata</i> Herzog	302
**	<i>Ceratolejeunea oculata</i> (Gottsche) Steph.	302
***	<i>Ceratolejeunea oxygonia</i> Steph.....	302
***	<i>Ceratolejeunea papuliflora</i> Steph.	303
***	<i>Ceratolejeunea patentissima</i> (Hampe et Gottsche) A.Evans	303
***	<i>Ceratolejeunea pungens</i> Steph.....	303
***	<i>Ceratolejeunea rubiginosa</i> Steph.....	303
***	<i>Ceratolejeunea saroltae</i> Pócs	303
*	<i>Ceratolejeunea sinensis</i> P.C.Chen et P.C.Wu	303
**	<i>Ceratolejeunea singaporensis</i> (Lindenb.) Schiffn.	303
***	<i>Ceratolejeunea spinosa</i> (Gottsche) Steph.	303
***	<i>Ceratolejeunea szyszylowiczii</i> (Loitl.) Steph.....	303
***	<i>Ceratolejeunea temnantha</i> (Spruce) M.E.Reiner.....	303
***	<i>Ceratolejeunea umbonata</i> Steph.	303
**	<i>Ceratolejeunea vitiensis</i> Steph.....	303
**	<i>Ceratolejeunea zenkeri</i> Steph.....	303
***	<i>Chaetocolea palmata</i> Spruce.....	254
***	<i>Chaetophyllopsis whiteleggei</i> (Carrington et Pearson) R.M.Schust. ex Hamlin	72
***	<i>Chandonanthus squarrosus</i> (Menzies) Mitt.....	52
***	<i>Cheilolejeunea acanthina</i> (Spruce) Gradst. et Ilk.-Borg.	305
**	<i>Cheilolejeunea aciculifera</i> R.M.Schust.	311
**	<i>Cheilolejeunea acutangula</i> (Nees) Grolle	311
***	<i>Cheilolejeunea adnata</i> (Kunze ex Lehm.) Grolle	305
**	<i>Cheilolejeunea adnata</i> var. <i>autoica</i> Gradst. et Ilk.-Borg.	305
**	<i>Cheilolejeunea albovirens</i> (Hook.f. et Taylor) E.A.Hodgs.....	305
***	<i>Cheilolejeunea aneogyna</i> (Spruce) A.Evans	305
**	<i>Cheilolejeunea ascensionis</i> (Hook.f. et Taylor) Grolle	305
***	<i>Cheilolejeunea asperiflora</i> (Spruce) Gradst. et Ilk.-Borg.	305
***	<i>Cheilolejeunea asperrima</i> (Steph.) Grolle.....	305
**	<i>Cheilolejeunea australis</i> Solari	311
**	<i>Cheilolejeunea baumannii</i> Hürl.	305
***	<i>Cheilolejeunea beyrichii</i> (Lindenb.) M.E.Reiner	305
**	<i>Cheilolejeunea birmensis</i> (Steph.) Mizut.....	311
**	<i>Cheilolejeunea boninensis</i> Mizut.	305
***	<i>Cheilolejeunea caducifolia</i> (Gradst. et Schäf.-Verw.) W.Ye et R.L.Zhu.....	306
**	<i>Cheilolejeunea camerunensis</i> S.W.Arnell	306
**	<i>Cheilolejeunea campbelliensis</i> (Steph.) R.M.Schust.	311
**	<i>Cheilolejeunea cedercreutzii</i> (H.Buch et Perss.) Grolle.....	311
**	<i>Cheilolejeunea celebensis</i> (Steph.) Mizut.	306
**	<i>Cheilolejeunea ceylanica</i> (Gottsche) R.M.Schust. et Kachroo	314
**	<i>Cheilolejeunea chenii</i> R.L.Zhu et M.L.So.....	306
**	<i>Cheilolejeunea choachina</i> (Gottsche) Gradst.....	311
***	<i>Cheilolejeunea clausa</i> (Nees et Mont.) R.M.Schust.	311
**	<i>Cheilolejeunea clavata</i> Mizut.	311
***	<i>Cheilolejeunea clypeata</i> (Schwein.) W.Ye et R.L.Zhu	306
***	<i>Cheilolejeunea comans</i> (Spruce) R.M.Schust.	312
**	<i>Cheilolejeunea compressa</i> (Herzog) Grolle	306
***	<i>Cheilolejeunea conchifolia</i> (A.Evans) W.Ye et R.L.Zhu	306
**	<i>Cheilolejeunea convexa</i> (S.W.Arnell) S.W.Arnell.....	312
**	<i>Cheilolejeunea cookiensis</i> (Steph.) R.M.Schust. et Kachroo.....	312

***	<i>Cheilolejeunea cordigera</i> (Steph.) Grolle.....	306
**	<i>Cheilolejeunea cordistipula</i> (Steph.) Grolle ex E.W.Jones	312
**	<i>Cheilolejeunea coronalis</i> (Gottsche) R.M.Schust.....	306
*	<i>Cheilolejeunea curvatilobula</i> (Herzog) Grolle	306
***	<i>Cheilolejeunea decursiva</i> (Sande Lac.) R.M.Schust	306
***	<i>Cheilolejeunea discoidea</i> (Lehm. et Lindenb.) R.M.Schust. et Kachroo	306
**	<i>Cheilolejeunea diversifolia</i> Augier	306
**	<i>Cheilolejeunea ecarinata</i> Vanden Berghen.....	306
**	<i>Cheilolejeunea erostrata</i> R.M.Schust.	306
**	<i>Cheilolejeunea eximia</i> (Jovet-Ast et Tixier) R.L.Zhu et M.L.So.....	314
***	<i>Cheilolejeunea exinnovata</i> E.W.Jones.....	306
***	<i>Cheilolejeunea falsinervis</i> (Sande Lac.) R.M.Schust. et Kachroo	314
**	<i>Cheilolejeunea fischeri</i> Malombe	312
***	<i>Cheilolejeunea fragrantissima</i> (Spruce) R.M.Schust.....	306
*	<i>Cheilolejeunea fukiensis</i> (P.C.Chen et P.C.Wu) Piippo.....	307
*	<i>Cheilolejeunea galliotii</i> Steph.	307
**	<i>Cheilolejeunea gaoi</i> R.L.Zhu, M.L.So et Grolle.....	307
**	<i>Cheilolejeunea gardneri</i> (Mitt.) Mizut.....	314
**	<i>Cheilolejeunea germanii</i> (Besch. et Spruce) Grolle.....	307
**	<i>Cheilolejeunea ghatensis</i> G.Asthana, S.C.Srivast. et A.K.Asthana.....	307
**	<i>Cheilolejeunea gigantea</i> (Steph.) R.M.Schust. et Kachroo	314
**	<i>Cheilolejeunea gottscheana</i> C.J.Bastos.....	315
***	<i>Cheilolejeunea gradsteinii</i> (Grolle et Piippo) W.Ye et R.L.Zhu.....	307
**	<i>Cheilolejeunea grandibracteata</i> Steph.	307
**	<i>Cheilolejeunea hallingii</i> B.M.Thiers	312
**	<i>Cheilolejeunea hamlinii</i> Grolle.....	307
**	<i>Cheilolejeunea hawaica</i> Steph.	307
*	<i>Cheilolejeunea herzogiana</i> Steph.....	307
*	<i>Cheilolejeunea heteroclada</i> (Spruce) Schiffn.....	315
**	<i>Cheilolejeunea huerlimannii</i> Tixier	314
**	<i>Cheilolejeunea hyalomarginata</i> R.L.Zhu et Frank Müll.	314
**	<i>Cheilolejeunea implexicaulis</i> (Hook.f. et Taylor) R.M.Schust.....	307
***	<i>Cheilolejeunea incisa</i> (Gottsche) R.M.Schust. et Kachroo	314
**	<i>Cheilolejeunea incisa</i> var. <i>teretiflora</i> B.M.Thiers.....	314
***	<i>Cheilolejeunea inflexa</i> (Hampe) Grolle.....	312
***	<i>Cheilolejeunea insecta</i> Grolle et Gradst.....	307
**	<i>Cheilolejeunea insignis</i> Jovet-Ast et Tixier	307
***	<i>Cheilolejeunea intertexta</i> (Lindenb.) Steph.....	312
**	<i>Cheilolejeunea intricata</i> (Steph.) J.J.Engel.....	307
**	<i>Cheilolejeunea invaginata</i> R.M.Schust.	307
**	<i>Cheilolejeunea jamaicensis</i> Steph.	307
**	<i>Cheilolejeunea japonica</i> (Horik.) W.Ye et R.L.Zhu	307
**	<i>Cheilolejeunea kitagawae</i> W.Ye et R.L.Zhu.....	307
***	<i>Cheilolejeunea krakakammae</i> (Lindenb.) R.M.Schust.	312
***	<i>Cheilolejeunea lacerata</i> C.J.Bastos et Gradst.....	307
***	<i>Cheilolejeunea laciniata</i> D.F.Peralta et M.E.Reiner.....	312
***	<i>Cheilolejeunea laevicalyx</i> (J.B.Jack et Steph.) Grolle.....	307
**	<i>Cheilolejeunea laeviuscula</i> (Mitt.) Steph.....	307
**	<i>Cheilolejeunea larsenii</i> Mizut.	308
*	<i>Cheilolejeunea laurentii</i> Steph.....	308
**	<i>Cheilolejeunea leptophylla</i> (Ångstr.) Steph.	308
***	<i>Cheilolejeunea lindenbergii</i> (Gottsche) Mizut.....	312

**	<i>Cheilolejeunea longidens</i> (Steph.) R.M.Schust. et Kachroo	314
*	<i>Cheilolejeunea longiflora</i> (Taylor) R.M.Schust.	308
**	<i>Cheilolejeunea longispina</i> (Herzog) R.M.Schust.	308
**	<i>Cheilolejeunea loriana</i> (Steph.) W.Ye et R.L.Zhu	308
**	<i>Cheilolejeunea ludoviciae</i> Steph.	308
**	<i>Cheilolejeunea lurida</i> (Lindenb.) Steph.	308
**	<i>Cheilolejeunea macroloba</i> (Herzog) Grolle	308
***	<i>Cheilolejeunea malaccensis</i> (G.Hoffm.) Xiao L.He	308
**	<i>Cheilolejeunea mammifera</i> R.M.Schust.	308
***	<i>Cheilolejeunea mariana</i> (Gottsche) B.M.Thiers et Gradst.	308
**	<i>Cheilolejeunea mexicana</i> Steph.	308
**	<i>Cheilolejeunea meyeniana</i> (Nees, Lindenb. et Gottsche) R.M.Schust. et Kachroo	314
*	<i>Cheilolejeunea micholitzii</i> (Steph.) R.M.Schust. et Kachroo.....	308
**	<i>Cheilolejeunea microscypha</i> (Hook.f. et Taylor) M.Wigginton	309
**	<i>Cheilolejeunea mimosa</i> (Hook.f. et Taylor) R.M.Schust.	312
**	<i>Cheilolejeunea minutilobula</i> Amakawa	315
***	<i>Cheilolejeunea mizutanii</i> W.Ye et R.L.Zhu.....	309
***	<i>Cheilolejeunea montagnei</i> (Gottsche ex Mont.) R.M.Schust.	314
**	<i>Cheilolejeunea nana</i> R.M.Schust.	312
***	<i>Cheilolejeunea neblinensis</i> Ilk.-Borg. et Gradst.	309
**	<i>Cheilolejeunea ngongensis</i> Malombe et Pócs	312
**	<i>Cheilolejeunea nietneri</i> (Steph.) Mizut.	309
**	<i>Cheilolejeunea nipponica</i> (S.Hatt.) S.Hatt.	312
***	<i>Cheilolejeunea norisiae</i> G.Dauphin et Gradst.	309
**	<i>Cheilolejeunea norrisii</i> (Grolle) M.A.M.Renner	315
**	<i>Cheilolejeunea novaezelandiae</i> R.M.Schust.	309
***	<i>Cheilolejeunea obcordata</i> Herzog.....	309
**	<i>Cheilolejeunea obruncata</i> (Mont.) Solari	309
**	<i>Cheilolejeunea obtusa</i> (Herzog) Solari	309
**	<i>Cheilolejeunea obtusifolia</i> (Steph.) S.Hatt.	309
**	<i>Cheilolejeunea obtusilobula</i> (S.Hatt.) S.Hatt.	314
**	<i>Cheilolejeunea occlusa</i> (Herzog) T.Kodama et N.Kitag.	309
***	<i>Cheilolejeunea omphalogastris</i> Pócs	313
***	<i>Cheilolejeunea oncophylla</i> (Ångstr.) Grolle et M.E.Reiner	313
**	<i>Cheilolejeunea orientalis</i> (Gottsche) Mizut.	309
**	<i>Cheilolejeunea ornata</i> C.J.Bastos	313
**	<i>Cheilolejeunea oscilla</i> M.A.M.Renner.....	315
**	<i>Cheilolejeunea osumiensis</i> (S.Hatt.) Mizut.	313
**	<i>Cheilolejeunea ovistipula</i> Steph.	309
**	<i>Cheilolejeunea panurensis</i> (Spruce) Steph.	309
**	<i>Cheilolejeunea papillata</i> Solari	309
**	<i>Cheilolejeunea papulosa</i> Schiffn.	315
**	<i>Cheilolejeunea paroica</i> Mizut.	309
**	<i>Cheilolejeunea parvidens</i> B.M.Thiers	314
**	<i>Cheilolejeunea piriflora</i> Schiffn.	309
**	<i>Cheilolejeunea pluriplicata</i> (Pearson) R.M.Schust.	313
**	<i>Cheilolejeunea pocsii</i> E.W.Jones	313
**	<i>Cheilolejeunea polyantha</i> A.Evans	313
**	<i>Cheilolejeunea polyantha</i> var. <i>caduciloba</i> R.M.Schust.	313
***	<i>Cheilolejeunea polystachya</i> (Spruce) Gradst. et Ilk.-Borg.	310
**	<i>Cheilolejeunea renneri</i> (G.Hoffm.) Xiao L.He.....	310
***	<i>Cheilolejeunea revoluta</i> (Herzog) Gradst. et Grolle	313

***	<i>Cheilolejeunea rigidula</i> (Nees ex Mont.) R.M.Schust.....	313
***	<i>Cheilolejeunea riparia</i> (Steph.) M.E.Reiner.....	315
***	<i>Cheilolejeunea rotalis</i> (Hook.f. et Taylor) M.Wigginton.....	315
***	<i>Cheilolejeunea rotundistipula</i> (Lindenb. ex Lehm.) Malombe.....	310
**	<i>Cheilolejeunea rufescens</i> (Lindenb.) Grolle.....	310
**	<i>Cheilolejeunea ruwenzorensis</i> (S.W.Arnell) R.M.Schust.....	313
**	<i>Cheilolejeunea ryukyuensis</i> Mizut.	313
**	<i>Cheilolejeunea sandvicensis</i> (Prantl) Steph.	305
**	<i>Cheilolejeunea stenochiza</i> (Ångstr.) A.Evans.....	310
**	<i>Cheilolejeunea streimannii</i> Pócs et Ninh.....	315
**	<i>Cheilolejeunea subcrenulata</i> (Spruce) R.M.Schust.	310
**	<i>Cheilolejeunea subopaca</i> (Mitt.) Mizut.	313
*	<i>Cheilolejeunea suborbicularis</i> (Herzog) H.A.Mill., Bonner et Bischl.	310
***	<i>Cheilolejeunea suprema</i> (Grolle et Piippo) W.Ye et R.L.Zhu.....	310
**	<i>Cheilolejeunea surrepens</i> (Mitt.) E.W.Jones.....	310
**	<i>Cheilolejeunea tenerima</i> (Steph.) C.J.Bastos.....	315
***	<i>Cheilolejeunea trapezia</i> (Nees) Kachroo et R.M.Schust.	315
***	<i>Cheilolejeunea trifaria</i> (Reinw., Blume et Nees) Mizut.	313
***	<i>Cheilolejeunea turgida</i> (Mitt.) W.Ye et R.L.Zhu.....	310
*	<i>Cheilolejeunea udarii</i> G.Asthana, S.C.Srivast. et A.K.Asthana.....	313
*	<i>Cheilolejeunea ulugurica</i> Malombe, Eb.Fisch. et Pócs.....	310
***	<i>Cheilolejeunea uncioloba</i> (Lindenb.) Malombe.....	310
**	<i>Cheilolejeunea upoluensis</i> S.W.Arnell.....	310
**	<i>Cheilolejeunea urubuensis</i> (Zartman et I.L.Ackerman) R.L.Zhu et Y.M.Wei.....	316
**	<i>Cheilolejeunea usambarana</i> (Steph.) Grolle.....	313
**	<i>Cheilolejeunea valenciae</i> (Steph.) Xiao L.He.....	310
**	<i>Cheilolejeunea ventricosa</i> (Schiffn. ex P.Syd.) Xiao L.He.....	315
**	<i>Cheilolejeunea verrucosa</i> Steph.	313
**	<i>Cheilolejeunea virescens</i> (Lehm. et Lindenb.) Steph.....	311
*	<i>Cheilolejeunea viridis</i> Steph.	311
***	<i>Cheilolejeunea vittata</i> (Steph. ex G.Hoffm.) R.M.Schust. et Kachroo.....	315
**	<i>Cheilolejeunea warnstorffii</i> (Steph.) Solari.....	311
*	<i>Cheilolejeunea wrightii</i> Steph.....	311
***	<i>Cheilolejeunea xanthocarpa</i> (Lehm. et Lindenb.) Malombe.....	311
**	<i>Cheilolejeunea xanthophylla</i> (Lindenb.) Steph.....	311
***	<i>Chiasocaulon dendroides</i> (Nees) Carl.....	219
**	<i>Chiloscyphus acutus</i> Steph.	190
**	<i>Chiloscyphus alpicola</i> J.J.Engel.....	190
**	<i>Chiloscyphus beesleyanus</i> Pearson.....	190
*	<i>Chiloscyphus bifidus</i> Schiffn.	190
**	<i>Chiloscyphus breviculus</i> B.Y.Yang et W.C.Lee.....	190
*	<i>Chiloscyphus brevistipulus</i> Steph.....	190
**	<i>Chiloscyphus chinnarensis</i> Manju, K.P.Rajesh et Madhus.....	190
**	<i>Chiloscyphus confertifolius</i> Steph.....	190
**	<i>Chiloscyphus confertus</i> Steph.	190
**	<i>Chiloscyphus cornutistipulus</i> Steph.....	190
*	<i>Chiloscyphus durus</i> (Steph.) Hässel.....	190
*	<i>Chiloscyphus ernstianus</i> Steph.	190
**	<i>Chiloscyphus etesseanus</i> Steph.	190
**	<i>Chiloscyphus francanus</i> Steph.....	190
**	<i>Chiloscyphus graeffeanus</i> Steph.	190
**	<i>Chiloscyphus greenwelliae</i> (H.A.Mill.) H.A.Mill.....	190

**	<i>Chiloscyphus hookeri</i> J.J.Engel.....	190
*	<i>Chiloscyphus hookeri</i> var. <i>constantifolius</i> J.J.Engel	190
**	<i>Chiloscyphus integerrimus</i> Schiffn.....	190
**	<i>Chiloscyphus kasbyapii</i> A.Srivast. et S.C.Srivast.	189
**	<i>Chiloscyphus kehdingianus</i> (Steph.) N.Kitag.....	190
**	<i>Chiloscyphus kilauensis</i> Steph.....	190
**	<i>Chiloscyphus koepensis</i> (Gottsche) Steph.....	190
**	<i>Chiloscyphus laceratus</i> Steph.....	191
**	<i>Chiloscyphus lambertonii</i> H.A.Mill.....	191
**	<i>Chiloscyphus latistipus</i> Steph.....	191
**	<i>Chiloscyphus lepervanchei</i> (Steph.) J.J.Engel et R.M.Schust.....	191
**	<i>Chiloscyphus longifissus</i> Steph.....	191
***	<i>Chiloscyphus pallescens</i> (Ehrh.) Dumort.....	189
*	<i>Chiloscyphus pallescens</i> var. <i>fragilis</i> (Roth) Müll.Frib.....	189
***	<i>Chiloscyphus polyanthos</i> (L.) Corda.....	189
*	<i>Chiloscyphus polyanthos</i> var. <i>rivularis</i> (Schrad.) Lindb. et Arnell.....	189
**	<i>Chiloscyphus propagulifer</i> Schiffn.....	191
**	<i>Chiloscyphus purpureus</i> Steph.....	191
**	<i>Chiloscyphus quadricilius</i> Steph.....	191
***	<i>Chiloscyphus quadridentatus</i> (Spruce) J.J.Engel et R.M.Schust.....	191
**	<i>Chiloscyphus rotundifolius</i> Mitt.....	191
**	<i>Chiloscyphus rotundiphyllus</i> H.A.Mill.....	191
**	<i>Chiloscyphus scaberulus</i> Spruce.....	191
**	<i>Chiloscyphus septatus</i> J.J.Engel.....	191
**	<i>Chiloscyphus similis</i> Steph.....	191
**	<i>Chiloscyphus skottsbergianus</i> H.A.Mill.....	191
**	<i>Chiloscyphus subacuminatus</i> Herzog.....	191
**	<i>Chiloscyphus subsimilis</i> Steph.....	191
*	<i>Chiloscyphus tridens</i> Steph.....	191
**	<i>Chiloscyphus trigonifolius</i> Steph.....	191
*	<i>Chiloscyphus venustus</i> Colenso.....	191
**	<i>Chonecolea acutiloba</i> (Schiffn.) R.M.Schust.....	138
**	<i>Chonecolea andina</i> Grolle et Vána.....	138
**	<i>Chonecolea doellingeri</i> (Nees) Grolle.....	138
**	<i>Chonecolea ruwenzorensis</i> E.W.Jones.....	138
**	<i>Chonecolea schusteri</i> Udar et Ad.Kumar.....	138
**	<i>Chonecolea verae</i> Potemkin.....	138
***	<i>Clandarium clandestinum</i> (Mont.) R.M.Schust.....	103
***	<i>Clandarium gottscheanum</i> (Grolle) R.M.Schust.....	103
***	<i>Clandarium xiphophyllum</i> (Grolle) R.M.Schust.....	103
***	<i>Clasmatocolea bisexualis</i> Gleny et J.J.Engel.....	191
***	<i>Clasmatocolea crassiretis</i> (Herzog) Grolle.....	191
***	<i>Clasmatocolea ctenophylla</i> (Schiffn.) Grolle.....	191
***	<i>Clasmatocolea cucullistipula</i> (Steph.) Grolle.....	192
***	<i>Clasmatocolea fasciculata</i> (Nees) Grolle.....	192
***	<i>Clasmatocolea fulvella</i> (Hook.f. et Taylor) Grolle.....	192
***	<i>Clasmatocolea gayana</i> (Mont.) Grolle.....	192
***	<i>Clasmatocolea humilis</i> (Hook.f. et Taylor) Grolle.....	192
***	<i>Clasmatocolea humilis</i> var. <i>polymorpha</i> J.J.Engel.....	192
***	<i>Clasmatocolea humilis</i> var. <i>suspecta</i> (C.Massal.) J.J.Engel.....	192
***	<i>Clasmatocolea inflexispina</i> (Hook.f. et Taylor) J.J.Engel.....	192
***	<i>Clasmatocolea marginata</i> (Steph.) Grolle.....	192

***	<i>Clasmatocolea minutiretis</i> J.J.Engel et Grolle.....	192
***	<i>Clasmatocolea moniliformis</i> J.J.Engel.....	192
***	<i>Clasmatocolea navistipula</i> (Steph.) Grolle	192
***	<i>Clasmatocolea navistipula</i> var. <i>parceramosa</i> J.J.Engel	192
***	<i>Clasmatocolea notophylla</i> (Hook.f. et Taylor) Grolle.....	192
***	<i>Clasmatocolea obvoluta</i> (Hook.f. et Taylor) Grolle.....	192
***	<i>Clasmatocolea obvoluta</i> var. <i>cookiana</i> (C.Massal.) J.J.Engel	192
***	<i>Clasmatocolea puccioana</i> (De Not.) Grolle.....	193
***	<i>Clasmatocolea rigens</i> (Hook.f. et Taylor) J.J.Engel	193
***	<i>Clasmatocolea strongylophylla</i> (Hook.f. et Taylor) Grolle.....	193
***	<i>Clasmatocolea trachyopa</i> (Hook.f. et Taylor) Grolle	193
***	<i>Clasmatocolea vermicularis</i> (Lehm.) Grolle.....	193
***	<i>Clasmatocolea verrucosa</i> J.J.Engel.....	193
***	<i>Clevea hyalina</i> (Sommerf.) Lindb.....	484
*	<i>Clevea hyalina</i> var. <i>californica</i> M.Howe	484
*	<i>Clevea pedicellata</i> (Griff.) Lindb.....	484
***	<i>Clevea pusilla</i> (Steph.) Rubas. et D.G.Long.....	484
***	<i>Clevea spathysii</i> (Lindenb.) Müll.Frib.....	484
**	<i>Cololejeunea abnormis</i> Mizut.....	332
**	<i>Cololejeunea acuminata</i> Mizut.....	325
***	<i>Cololejeunea adhaesiva</i> (Mitt.) R.M.Schust.....	332
**	<i>Cololejeunea adnata</i> Tixier.....	332
***	<i>Cololejeunea aequabilis</i> (Sande Lac.) Schiffn.....	326
***	<i>Cololejeunea africana</i> (Steph.) R.M.Schust.....	332
**	<i>Cololejeunea albodentata</i> P.C.Chen et P.C.Wu.....	320
**	<i>Cololejeunea altimontana</i> Pócs.....	326
***	<i>Cololejeunea amaniensis</i> Pócs.....	326
**	<i>Cololejeunea ambeliensis</i> Tixier	332
**	<i>Cololejeunea amieuensis</i> Tixier	332
*	<i>Cololejeunea amoena</i> Benedix	337
***	<i>Cololejeunea amphibola</i> B.M.Thiers	324
**	<i>Cololejeunea andapania</i> Tixier	332
***	<i>Cololejeunea angulata</i> (Steph.) Mizut.....	332
***	<i>Cololejeunea angustibracteata</i> Schiffn. ex P.Syd.....	326
***	<i>Cololejeunea angustiflora</i> (Steph.) Mizut.....	323
***	<i>Cololejeunea ankaiana</i> Tixier.....	332
**	<i>Cololejeunea antillana</i> Pócs.....	324
***	<i>Cololejeunea apiculata</i> (E.W.Jones) R.M.Schust	326
***	<i>Cololejeunea appressa</i> (A.Evans) Benedix.....	337
**	<i>Cololejeunea armata</i> Tixier	320
*	<i>Cololejeunea arrectifolia</i> (Mitt.) Steph.....	326
**	<i>Cololejeunea attilana</i> Pócs.....	332
*	<i>Cololejeunea augieri</i> Tixier.....	324
**	<i>Cololejeunea aurantia</i> (Tixier) Thouvenot.....	326
***	<i>Cololejeunea auriculata</i> (E.W.Jones) R.M.Schust.....	332
**	<i>Cololejeunea australis</i> Tixier.....	319
**	<i>Cololejeunea autoica</i> (Steph.) Grolle	332
***	<i>Cololejeunea azorica</i> V.Allorge et Jovet-Ast.....	324
*	<i>Cololejeunea bachmaensis</i> Tixier.....	338
**	<i>Cololejeunea bandamiae</i> Tixier	326
**	<i>Cololejeunea bebourensis</i> Tixier	326
***	<i>Cololejeunea bekkeri</i> Tixier	332

**	<i>Cololejeunea bergmansiana</i> Tixier	326
***	<i>Cololejeunea berneckerae</i> Pócs	317
***	<i>Cololejeunea bhutanica</i> Grolle et Mizut.	320
**	<i>Cololejeunea biddlecomiae</i> (Austin) A.Evans.....	321
**	<i>Cololejeunea bidentula</i> (Steph.) E.W.Jones	326
**	<i>Cololejeunea bifalcata</i> Pócs	326
***	<i>Cololejeunea bischleriana</i> Tixier	332
***	<i>Cololejeunea blepharophylla</i> Pócs.....	326
**	<i>Cololejeunea bolovenensis</i> Tixier	332
*	<i>Cololejeunea bontocensis</i> Tixier	338
***	<i>Cololejeunea borbonica</i> Tixier	332
**	<i>Cololejeunea borbidiana</i> Pócs.....	326
**	<i>Cololejeunea bosseriana</i> Tixier	326
*	<i>Cololejeunea brunelii</i> Tixier	333
*	<i>Cololejeunea caihuaella</i> But et P.C.Wu.....	321
**	<i>Cololejeunea calcarata</i> E.W.Jones	321
***	<i>Cololejeunea calcarea</i> (Lib.) Steph.....	326
**	<i>Cololejeunea caledonica</i> Gottsche	319
***	<i>Cololejeunea camillii</i> (Lehm.) A.Evans.....	324
*	<i>Cololejeunea camusii</i> Tixier.....	326
**	<i>Cololejeunea capuronii</i> Tixier.....	321
***	<i>Cololejeunea cardiocarpa</i> (Mont.) A.Evans	333
***	<i>Cololejeunea ceatocarpa</i> (Ångstr.) Steph.	326
***	<i>Cololejeunea ceratilobula</i> (P.C.Chen) R.M.Schust.	319
***	<i>Cololejeunea ceylanica</i> Onr.	326
*	<i>Cololejeunea chamlongiana</i> Tixier	327
***	<i>Cololejeunea chenii</i> Tixier	327
***	<i>Cololejeunea chinii</i> Tixier	320
*	<i>Cololejeunea chittagongensis</i> Tixier	333
**	<i>Cololejeunea chuabiana</i> Pócs.....	337
***	<i>Cololejeunea ciliata</i> Pócs	327
***	<i>Cololejeunea cingens</i> (Herzog) Bernecker et Pócs.....	317
***	<i>Cololejeunea cocoscola</i> Tixier	333
**	<i>Cololejeunea comptonii</i> (Pearson) H.A.Mill.....	327
**	<i>Cololejeunea conchifolia</i> (Gottsche) Gradst.	340
***	<i>Cololejeunea contractiloba</i> A.Evans.....	324
**	<i>Cololejeunea cookei</i> A.Evans.....	327
**	<i>Cololejeunea cordiflora</i> Steph.	327
***	<i>Cololejeunea cornuta</i> E.W.Jones.....	324
***	<i>Cololejeunea cornutissima</i> (R.M.Schust.) Stotler et Crand.-Stotl.	317
***	<i>Cololejeunea costaricensis</i> (Bern.-Lück.) Bernecker et Pócs.....	317
*	<i>Cololejeunea crassipapillata</i> Tixier	338
**	<i>Cololejeunea crateris</i> Pócs.....	327
**	<i>Cololejeunea cremersii</i> Tixier	333
**	<i>Cololejeunea crenata</i> (A.Evans) Pócs	324
*	<i>Cololejeunea crenulata</i> (Pearson) H.A.Mill.	327
**	<i>Cololejeunea cristata</i> (Steph.) R.M.Schust.....	333
***	<i>Cololejeunea cubensis</i> Pócs	317
**	<i>Cololejeunea cucullifolia</i> (Herzog) E.A.Hodgs.....	327
**	<i>Cololejeunea cuneata</i> (Lehm. et Lindenb.) Herzog.....	333
**	<i>Cololejeunea cuneifolia</i> Steph.	327
*	<i>Cololejeunea dadeuniana</i> Tixier	327

**	<i>Cololejeunea dankiaensis</i> Tixier	340
**	<i>Cololejeunea dauphinii</i> R.L.Zhu	337
**	<i>Cololejeunea decemplicata</i> (Steph.) Tixier	327
**	<i>Cololejeunea decliviloba</i> Steph.	327
**	<i>Cololejeunea dentata</i> (E.W.Jones) R.M.Schust.	327
**	<i>Cololejeunea denticulata</i> (Horik.) S.Hatt.	327
*	<i>Cololejeunea dentilobula</i> (Steph.) R.M.Schust.	327
*	<i>Cololejeunea deroinii</i> Tixier	333
***	<i>Cololejeunea desciscens</i> Steph.	319
*	<i>Cololejeunea deslooveri</i> Vanden Berghen	333
***	<i>Cololejeunea diana</i> M.Wigginton	327
***	<i>Cololejeunea diaphana</i> A.Evans	324
**	<i>Cololejeunea dilatata</i> (Steph.) Mizut.	328
**	<i>Cololejeunea dinghuiana</i> R.L.Zhu et Y.F.Wang	321
***	<i>Cololejeunea diplasiolejeunoides</i> Tixier	328
**	<i>Cololejeunea disciflora</i> Tixier	337
***	<i>Cololejeunea distalopapillata</i> (E.W.Jones) R.M.Schust.	328
**	<i>Cololejeunea dolichodonta</i> Tixier	321
***	<i>Cololejeunea dozyana</i> (Sande Lac.) Schiffl.	321
**	<i>Cololejeunea drepanolejeuneoides</i> (Horik.) R.M.Schust.	324
*	<i>Cololejeunea dzumacensis</i> Tixier	333
***	<i>Cololejeunea ecuadoriensis</i> Pócs	333
*	<i>Cololejeunea effusa</i> (Mitt.) Steph.	328
***	<i>Cololejeunea elegans</i> Steph.	321
***	<i>Cololejeunea elephantorum</i> Tixier	328
**	<i>Cololejeunea ellipsoidea</i> R.M.Schust.	328
**	<i>Cololejeunea ensifera</i> Tixier	340
*	<i>Cololejeunea epiphylla</i> G.Asthana et A.Shukla	333
***	<i>Cololejeunea equalbi</i> Tixier	328
***	<i>Cololejeunea erostrata</i> (Herzog) Bernecker et Pócs	324
**	<i>Cololejeunea eustacei</i> Pócs	338
***	<i>Cololejeunea falcata</i> (Horik.) Benedix	338
**	<i>Cololejeunea falcata</i> var. <i>madecassa</i> Tixier	338
**	<i>Cololejeunea falcidentata</i> R.M.Schust.	321
***	<i>Cololejeunea filicis</i> (Herzog) Piippo	328
**	<i>Cololejeunea filidens</i> Benedix	321
*	<i>Cololejeunea fischeri</i> Tixier	328
**	<i>Cololejeunea fissilobula</i> Herzog	333
**	<i>Cololejeunea flavicans</i> (Steph.) Mizut.	328
*	<i>Cololejeunea flavida</i> P.C.Wu et J.S.Lou	338
**	<i>Cololejeunea flavovittata</i> Pócs	338
***	<i>Cololejeunea floccosa</i> (Lehm. et Lindenb.) Schiffl.	338
*	<i>Cololejeunea floccosa</i> var. <i>amoenoides</i> Tixier	338
**	<i>Cololejeunea floccosa</i> var. <i>angustibracteata</i> Tixier	338
**	<i>Cololejeunea floccosa</i> var. <i>aurita</i> Benedix	338
**	<i>Cololejeunea floccosa</i> var. <i>convivens</i> Benedix	338
*	<i>Cololejeunea floccosa</i> var. <i>ocellata</i> Tixier	338
**	<i>Cololejeunea floccosa</i> var. <i>plicata</i> Tixier	338
**	<i>Cololejeunea floccosa</i> var. <i>trivittata</i> Tixier	338
**	<i>Cololejeunea florencei</i> Tixier	333
**	<i>Cololejeunea foliicola</i> S.C.Srivast. et G.Srivast.	333
*	<i>Cololejeunea frahmii</i> Tixier	321

* <i>Cololejeunea fredericii</i> Onr.....	328
** <i>Cololejeunea fructumarginata</i> Tixier.....	333
*** <i>Cololejeunea furcilibulata</i> (Berrie et E.W.Jones) R.M.Schust.....	333
** <i>Cololejeunea fusca</i> (Steph.) Mizut.....	328
*** <i>Cololejeunea geissleriana</i> Tixier.....	333
** <i>Cololejeunea georgiana</i> Tixier.....	334
** <i>Cololejeunea gottschei</i> (Steph.) Pandé, K.P.Srivast. et Ahmad.....	328
*** <i>Cololejeunea gracilis</i> (Jovet-Ast) Pócs.....	318
** <i>Cololejeunea gracilis</i> var. <i>linearifolia</i> (R.M.Schust.) Pócs.....	318
** <i>Cololejeunea gradsteinii</i> M.J.Lai et R.L.Zhu.....	325
** <i>Cololejeunea gresicola</i> Tixier.....	338
*** <i>Cololejeunea grolleana</i> Pócs.....	321
*** <i>Cololejeunea grossepapillosa</i> (Horik.) N.Kitag.....	318
*** <i>Cololejeunea grossestyla</i> M.Wigginton.....	328
*** <i>Cololejeunea grushvitzkiana</i> Pócs.....	328
*** <i>Cololejeunea guadelupensis</i> Tixier.....	334
** <i>Cololejeunea gynophthalma</i> Benedix.....	338
*** <i>Cololejeunea hainanensis</i> R.L.Zhu.....	328
** <i>Cololejeunea hamata</i> Steph.....	340
*** <i>Cololejeunea harrisii</i> Pócs.....	328
*** <i>Cololejeunea haskarliana</i> (Lehm.) Schiffn.....	321
** <i>Cololejeunea hattoriana</i> Mizut. et Pócs.....	324
*** <i>Cololejeunea hebridensis</i> Tixier.....	334
** <i>Cololejeunea herzogii</i> K.I.Goebel.....	340
*** <i>Cololejeunea hildebrandii</i> (Austin) Steph.....	328
*** <i>Cololejeunea hinidumae</i> Onr.....	334
*** <i>Cololejeunea hirta</i> Steph.....	328
* <i>Cololejeunea hoabinbiana</i> Tixier.....	334
** <i>Cololejeunea hodgsoniae</i> (Herzog) E.A.Hodgs.....	328
** <i>Cololejeunea hoana</i> Tixier.....	334
*** <i>Cololejeunea horikawana</i> (S.Hatt.) Mizut.....	329
*** <i>Cololejeunea huerlimannii</i> Tixier.....	329
** <i>Cololejeunea hungii</i> Tixier.....	334
*** <i>Cololejeunea hyalina</i> G.Asthana et S.C.Srivast.....	321
*** <i>Cololejeunea indosinica</i> Tixier.....	334
*** <i>Cololejeunea inflata</i> Steph.....	338
*** <i>Cololejeunea inflectens</i> (Mitt.) Benedix.....	324
** <i>Cololejeunea inflexifolia</i> R.M.Schust.....	329
** <i>Cololejeunea inoueana</i> Mizut.....	334
*** <i>Cololejeunea iradieri</i> M.Infante et Heras.....	329
** <i>Cololejeunea irianensis</i> Tixier.....	329
** <i>Cololejeunea iwatsukiana</i> (Pócs) Pócs.....	318
** <i>Cololejeunea jamesii</i> (Austin) M.E.Reiner et Pócs.....	340
** <i>Cololejeunea japonica</i> (Schiffn.) Mizut.....	334
*** <i>Cololejeunea johannis-winkleri</i> (Herzog) R.L.Zhu.....	329
*** <i>Cololejeunea jonesii</i> Pócs.....	334
*** <i>Cololejeunea jovetastiana</i> (Pócs) Pócs.....	318
* <i>Cololejeunea kahuziensis</i> Tixier.....	321
*** <i>Cololejeunea kapingaensis</i> H.A.Mill.....	334
*** <i>Cololejeunea karnatakensis</i> G.Asthana et S.C.Srivast.....	321
** <i>Cololejeunea kegelii</i> Steph.....	329
** <i>Cololejeunea khanii</i> Tixier.....	329

**	<i>Cololejeunea khiavensis</i> Tixier	338
**	<i>Cololejeunea kiriroensis</i> Tixier	334
**	<i>Cololejeunea kodamae</i> Kamim.	321
*	<i>Cololejeunea kohkongensis</i> Tixier	329
***	<i>Cololejeunea kolombangarae</i> Pócs	321
**	<i>Cololejeunea kolombangarae</i> subsp. <i>sepikensis</i> Pócs	321
***	<i>Cololejeunea konratii</i> Pócs	321
**	<i>Cololejeunea koponenii</i> (Pócs) Pócs	325
**	<i>Cololejeunea koratensis</i> Tixier	339
***	<i>Cololejeunea kuciana</i> Pócs et Schäf.-Verw.	321
***	<i>Cololejeunea kulenensis</i> Tixier	334
**	<i>Cololejeunea lacunculata</i> Benedix	320
**	<i>Cololejeunea laevigata</i> (Mitt.) R.M.Schust.	334
***	<i>Cololejeunea lanceolata</i> E.W.Jones	325
***	<i>Cololejeunea lanciloba</i> Steph.	334
***	<i>Cololejeunea latilobula</i> (Herzog) Tixier	334
***	<i>Cololejeunea latistyla</i> R.L.Zhu	334
***	<i>Cololejeunea leloutrei</i> (E.W.Jones) R.M.Schust.	334
**	<i>Cololejeunea leloutrei</i> var. <i>microlobulata</i> Tixier	334
**	<i>Cololejeunea leloutrei</i> var. <i>ulugurica</i> Pócs ex Tixier	334
***	<i>Cololejeunea lemuriana</i> Tixier	334
***	<i>Cololejeunea lichenyae</i> R.D.Porley, N.G.Hodgetts et M.Wigginton	329
***	<i>Cololejeunea linopteroides</i> H.Rob.	319
**	<i>Cololejeunea lisowskii</i> (Pócs) Pócs	318
**	<i>Cololejeunea littoralis</i> Tixier	334
*	<i>Cololejeunea lobulilineata</i> Tixier	329
***	<i>Cololejeunea longiana</i> Grolle et Mizut.	321
***	<i>Cololejeunea longifolia</i> (Mitt.) Benedix ex Mizut.	329
**	<i>Cololejeunea longistylis</i> A.Evans	335
***	<i>Cololejeunea macounii</i> (Spruce) A.Evans	322
***	<i>Cololejeunea madeirensis</i> Schiffn.	318
***	<i>Cololejeunea madothecoides</i> (Steph.) Benedix	320
**	<i>Cololejeunea magillii</i> Pócs	322
***	<i>Cololejeunea magna</i> (Tixier) M.Infante et Heras	329
**	<i>Cololejeunea magnifica</i> Pócs	329
**	<i>Cololejeunea magnilobula</i> (Horik.) S.Hatt.	329
***	<i>Cololejeunea magnistyla</i> (Horik.) Mizut.	335
*	<i>Cololejeunea malaccensis</i> Tixier	335
***	<i>Cololejeunea malanjae</i> Steph.	322
**	<i>Cololejeunea malayana</i> Tixier	335
**	<i>Cololejeunea mamillata</i> (Ångstr.) E.A.Hodgs.	322
*	<i>Cololejeunea manlinensis</i> Tixier	339
**	<i>Cololejeunea maquilingensis</i> Tixier	339
***	<i>Cololejeunea marginata</i> (Lehm. et Lindenb.) Pearson	335
*	<i>Cololejeunea maritima</i> Tixier	335
***	<i>Cololejeunea metzgeriopsis</i> (K.I.Goebel) Gradst., R.Wilson, Ilk.-Borg. et Heinrichs	329
**	<i>Cololejeunea micrandroecia</i> (Spruce) M.Menzel	317
*	<i>Cololejeunea micronesica</i> H.A.Mill. et Bonner	329
***	<i>Cololejeunea microscopica</i> (Taylor) Schiffn.	318
***	<i>Cololejeunea microscopica</i> var. <i>africana</i> (Pócs) Pócs et Bernecker	318
***	<i>Cololejeunea microscopica</i> var. <i>exigua</i> (A.Evans) Pócs	318
***	<i>Cololejeunea minuscula</i> Pócs	318

***	<i>Cololejeunea minutilobula</i> Herzog	335
**	<i>Cololejeunea mizutaniana</i> Udar et G.Srivast.	322
***	<i>Cololejeunea mocambiquensis</i> S.W.Arnell	322
**	<i>Cololejeunea mooreensis</i> Tixier.....	329
***	<i>Cololejeunea moralesiae</i> (Bern.-Lück.) Bernecker et Pócs.....	325
**	<i>Cololejeunea moramangae</i> Tixier.....	318
***	<i>Cololejeunea morobensis</i> (Pócs) Pócs.....	325
**	<i>Cololejeunea mouensis</i> (Tixier) H.A.Mill.	324
**	<i>Cololejeunea mutabilis</i> Benedix.....	339
**	<i>Cololejeunea nakajimae</i> S.Hatt.	339
**	<i>Cololejeunea nanhutashanensis</i> J.D.Yang et S.H.Lin.....	322
***	<i>Cololejeunea nigerica</i> (E.W.Jones) R.M.Schust.	335
***	<i>Cololejeunea nilgiriensis</i> G.Asthana et S.C.Srivast.	322
*	<i>Cololejeunea ningwana</i> Tixier.....	329
***	<i>Cololejeunea norrisii</i> (Pócs) Pócs.....	318
**	<i>Cololejeunea obcordata</i> (Austin) A.Evans.....	329
***	<i>Cololejeunea obliqua</i> (Nees et Mont.) Schiffn.	330
*	<i>Cololejeunea oblongiperianthia</i> (P.C.Wu et J.S.Lou) Piippo	330
***	<i>Cololejeunea obtusifolia</i> (E.W.Jones) Tixier.....	325
*	<i>Cololejeunea obtusifolia</i> var. <i>madecassa</i> (Tixier) Pócs	325
**	<i>Cololejeunea occidentalis</i> (E.W.Jones) Vanden Berghen	335
***	<i>Cololejeunea ocellata</i> (Horik.) Benedix.....	339
***	<i>Cololejeunea ocelloides</i> (Horik.) Mizut.	339
**	<i>Cololejeunea oleana</i> Sim.....	330
**	<i>Cololejeunea ombrophila</i> Tixier	320
**	<i>Cololejeunea onraedtii</i> Tixier	335
***	<i>Cololejeunea ornata</i> A.Evans	322
**	<i>Cololejeunea ovalifolia</i> A.Evans	330
***	<i>Cololejeunea pacifica</i> Pócs.....	335
**	<i>Cololejeunea panamensis</i> G.Dauphin et Pócs.....	335
**	<i>Cololejeunea panchoana</i> Tixier	330
***	<i>Cololejeunea paniensis</i> (Tixier) Grolle	330
***	<i>Cololejeunea papilliloba</i> (Steph.) Steph.	325
***	<i>Cololejeunea papillosa</i> (K.I.Goebel) Mizut.	318
**	<i>Cololejeunea papuliflora</i> Steph.	330
**	<i>Cololejeunea papulosa</i> R.M.Schust.	325
**	<i>Cololejeunea parva</i> Vanden Berghen.....	322
***	<i>Cololejeunea paucifolia</i> (Spruce) Bernecker et Pócs	325
***	<i>Cololejeunea paucimarginata</i> Tixier	335
**	<i>Cololejeunea pentagona</i> (Mitt.) Steph.....	330
***	<i>Cololejeunea peponiformis</i> Mizut.	325
***	<i>Cololejeunea peraffinis</i> (Schiffn.) Schiffn.	339
*	<i>Cololejeunea peraffinis</i> var. <i>ciconiae</i> Tixier	339
**	<i>Cololejeunea peraffinis</i> var. <i>elegans</i> Benedix.....	339
**	<i>Cololejeunea peraffinis</i> var. <i>serrulata</i> Schiffn. ex Benedix.....	339
**	<i>Cololejeunea perakensis</i> Tixier	335
***	<i>Cololejeunea plagiobhiliiana</i> Tixier	330
***	<i>Cololejeunea plagiophylla</i> Benedix.....	335
***	<i>Cololejeunea planiflora</i> Benedix	322
***	<i>Cololejeunea planissima</i> (Mitt.) Abeyw.....	335
**	<i>Cololejeunea planissima</i> var. <i>chagosensis</i> Pócs	335
**	<i>Cololejeunea planiuscula</i> Tixier	330

***	<i>Cololejeunea platyneura</i> (Spruce) A.Evans	322
***	<i>Cololejeunea pluridentata</i> P.C.Wu et J.S.Lou.....	322
*	<i>Cololejeunea polisiana</i> Tixier.....	339
**	<i>Cololejeunea praeruptorum</i> Tixier	335
**	<i>Cololejeunea pretiosa</i> Benedix.....	322
**	<i>Cololejeunea producta</i> (Mitt.) S.Hatt.	335
***	<i>Cololejeunea pseudocrystallina</i> P.C.Chen et P.C.Wu.....	322
**	<i>Cololejeunea pseudocuspidata</i> Tixier	325
***	<i>Cololejeunea pseudofloccosa</i> (Horik.) Benedix	339
**	<i>Cololejeunea pseudoplagiophylla</i> P.C.Wu et J.S.Lou.....	322
**	<i>Cololejeunea pseudoschmidtii</i> Tixier.....	322
***	<i>Cololejeunea pseudoserrata</i> Tixier	330
***	<i>Cololejeunea pseudostephanii</i> Tixier.....	339
***	<i>Cololejeunea pseudostipulata</i> Schiffn. ex P.Syd.....	320
***	<i>Cololejeunea pterocolea</i> Herzog	325
*	<i>Cololejeunea pteroporum</i> Tixier	330
**	<i>Cololejeunea pulchella</i> (Mitt.) R.M.Schust.	330
**	<i>Cololejeunea pulchella</i> var. <i>stylifera</i> R.M.Schust.....	330
*	<i>Cololejeunea punctata</i> (Gottsche) Pearson.....	336
***	<i>Cololejeunea pusilla</i> Steph.....	325
***	<i>Cololejeunea quadridentata</i> (S.Hatt.) Grolle.....	330
***	<i>Cololejeunea raduliloba</i> Steph.....	336
**	<i>Cololejeunea ramromensis</i> Pócs.....	322
*	<i>Cololejeunea reineckeana</i> Steph.....	336
**	<i>Cololejeunea retusula</i> (Mitt.) H.A.Mill.....	330
***	<i>Cololejeunea rosellata</i> Mizut.....	322
***	<i>Cololejeunea rosettiana</i> (C.Massal.) Schiffn.	322
*	<i>Cololejeunea rotundilobula</i> (P.C.Wu et P.J.Lin) Piippo	319
***	<i>Cololejeunea runsorensis</i> (Steph.) Pócs.....	322
**	<i>Cololejeunea salgadoi</i> Onr.....	330
**	<i>Cololejeunea saltuum</i> Tixier	336
**	<i>Cololejeunea sambiroana</i> Tixier.....	336
***	<i>Cololejeunea sanctae-helenae</i> M.Wigginton	330
***	<i>Cololejeunea saroltae</i> Pócs	336
**	<i>Cololejeunea schaeferi</i> Grolle	323
***	<i>Cololejeunea schmidtii</i> Steph.....	323
**	<i>Cololejeunea schmidtii</i> var. <i>acutepapillosa</i> Pócs	323
***	<i>Cololejeunea schusteri</i> Pócs.....	336
**	<i>Cololejeunea schwabei</i> Herzog.....	336
**	<i>Cololejeunea selaginellicola</i> Tixier.....	323
***	<i>Cololejeunea selangorensis</i> Tixier.....	336
***	<i>Cololejeunea serrata</i> (Steph.) Benedix	323
**	<i>Cololejeunea serrulata</i> Steph.....	330
***	<i>Cololejeunea setiloba</i> A.Evans.....	331
**	<i>Cololejeunea setosa</i> Mizut.	339
***	<i>Cololejeunea sharpii</i> Mizut.....	339
***	<i>Cololejeunea shibienensis</i> Mizut.	336
**	<i>Cololejeunea shikokiana</i> (Horik.) S.Hatt.	323
***	<i>Cololejeunea shimizui</i> N.Kitag.....	320
***	<i>Cololejeunea shimizui</i> var. <i>phangngana</i> N.Kitag.	320
***	<i>Cololejeunea siamensis</i> Steph.....	339
***	<i>Cololejeunea siangensis</i> G.Asthana et S.C.Srivast.	331

***	<i>Cololejeunea sicifolia</i> (Gottsche ex A.Evans) Pócs et Bernecker	319
***	<i>Cololejeunea sicifolia</i> subsp. <i>jamaicensis</i> (R.M.Schust.) Bernecker et Pócs.....	318
***	<i>Cololejeunea sigmoidea</i> Jovet-Ast et Tixier.....	319
**	<i>Cololejeunea sigmoidea</i> var. <i>dubia</i> Tixier	319
***	<i>Cololejeunea sintenisii</i> (Steph.) Pócs.....	319
***	<i>Cololejeunea skottsbergii</i> Herzog.....	331
***	<i>Cololejeunea smitinandii</i> Tixier.....	336
***	<i>Cololejeunea societatis</i> Tixier	331
**	<i>Cololejeunea sophiana</i> Tixier.....	319
**	<i>Cololejeunea spathulata</i> Jovet-Ast.....	325
*	<i>Cololejeunea spathulifolia</i> (Steph.) H.A.Mill.	331
***	<i>Cololejeunea sphaerodonta</i> Mizut.	339
**	<i>Cololejeunea spinosa</i> (Horik.) Pandé et R.N.Misra.....	323
**	<i>Cololejeunea spruceana</i> Tixier	331
***	<i>Cololejeunea standleyi</i> Herzog.....	319
***	<i>Cololejeunea stellaris</i> Pócs	323
**	<i>Cololejeunea stenophylla</i> Herzog.....	331
***	<i>Cololejeunea stephanii</i> Schiffln. ex Benedix	339
**	<i>Cololejeunea stoniana</i> Tixier	336
***	<i>Cololejeunea stotleriana</i> Gradst., Ilk.-Borg. et Vanderp.	320
***	<i>Cololejeunea streimannii</i> Pócs	331
**	<i>Cololejeunea streimannii</i> subsp. <i>solomonensis</i> Pócs	331
***	<i>Cololejeunea stylilobula</i> Tixier.....	320
***	<i>Cololejeunea stylosa</i> Steph.	336
***	<i>Cololejeunea subalpina</i> Pócs.....	331
***	<i>Cololejeunea subcardiocarpa</i> Tixier.....	336
**	<i>Cololejeunea subcristata</i> A.Evans	331
**	<i>Cololejeunea subfloccosa</i> Mizut.	339
**	<i>Cololejeunea subinflata</i> Tixier	336
**	<i>Cololejeunea subkodamae</i> Mizut.....	323
**	<i>Cololejeunea sublatistyla</i> Jian Wang bis et R.L.Zhu.....	340
***	<i>Cololejeunea submarginata</i> Tixier.....	336
**	<i>Cololejeunea subminutilobula</i> Mizut.	336
**	<i>Cololejeunea subocelloides</i> Mizut.	339
**	<i>Cololejeunea subscariosa</i> (Spruce) Pócs	336
***	<i>Cololejeunea subsphaeroidea</i> (R.M.Schust.) Pócs	319
**	<i>Cololejeunea subtriapiculata</i> Tixier.....	336
***	<i>Cololejeunea succinea</i> Tixier.....	336
***	<i>Cololejeunea surinamensis</i> Tixier	336
**	<i>Cololejeunea tahitensis</i> Tixier	336
*	<i>Cololejeunea takamaka</i> Tixier.....	331
**	<i>Cololejeunea tamasii</i> Schäf.-Verw.	331
**	<i>Cololejeunea tamatavensis</i> Tixier	336
*	<i>Cololejeunea tamdaoensis</i> Tixier	340
**	<i>Cololejeunea tanneri</i> Pócs	323
***	<i>Cololejeunea tanzaniae</i> Pócs.....	331
*	<i>Cololejeunea taprobanea</i> Tixier	337
**	<i>Cololejeunea taurifolia</i> Inoue et H.A.Mill.	325
***	<i>Cololejeunea tenella</i> Benedix	323
**	<i>Cololejeunea tenella</i> var. <i>dentiloba</i> Onr.....	323
**	<i>Cololejeunea tenuiparietata</i> Tixier	331
**	<i>Cololejeunea teurnoumensis</i> Tixier.....	331

* <i>Cololejeunea thailandensis</i> Tixier.....	337
** <i>Cololejeunea thiersiae</i> (Pócs) Pócs	319
** <i>Cololejeunea thiersiana</i> Tixier	323
*** <i>Cololejeunea timoi</i> Pócs	331
** <i>Cololejeunea tixieri</i> Onr.....	340
** <i>Cololejeunea touwii</i> Pócs.....	331
*** <i>Cololejeunea tranninhiana</i> Tixier	331
** <i>Cololejeunea triapiculata</i> (Herzog) Tixier.....	337
* <i>Cololejeunea tribracteata</i> Tixier.....	331
*** <i>Cololejeunea trichomanis</i> (Gottsche) Besch.	331
* <i>Cololejeunea tridentata</i> Tixier.....	337
** <i>Cololejeunea tuiwawana</i> Pócs	323
* <i>Cololejeunea tuksapiana</i> Tixier.....	331
* <i>Cololejeunea uchimae</i> Amakawa.....	337
* <i>Cololejeunea variifolia</i> (Mitt.) Steph.	340
** <i>Cololejeunea veillonii</i> Tixier.....	319
** <i>Cololejeunea verdoornii</i> (S.Hatt.) S.Hatt.....	340
*** <i>Cololejeunea verrucosa</i> Steph.....	323
** <i>Cololejeunea verrucosa</i> var. <i>rectispina</i> (Herzog) Benedix	323
*** <i>Cololejeunea verwimpfii</i> Tixier.....	337
*** <i>Cololejeunea vesicaria</i> (Sande Lac.) Schiffn.	324
*** <i>Cololejeunea vidaliana</i> Tixier.....	337
** <i>Cololejeunea vietnamensis</i> Tixier	337
** <i>Cololejeunea virotana</i> Tixier	319
** <i>Cololejeunea vitaliana</i> Tixier.....	337
** <i>Cololejeunea vulcania</i> Tixier	331
*** <i>Cololejeunea wightii</i> Steph.....	325
*** <i>Cololejeunea winkleri</i> (M.I.Morales et A.Lücking) Pócs.....	319
*** <i>Cololejeunea yakusimensis</i> (S.Hatt.) Mizut.	337
*** <i>Cololejeunea yelizae</i> Pócs et Bernecker	325
** <i>Cololejeunea yipii</i> R.L.Zhu	340
*** <i>Cololejeunea yoshinagana</i> (S.Hatt.) Mizut.	331
*** <i>Cololejeunea zangii</i> R.L.Zhu et M.L.So	320
** <i>Cololejeunea zantenorum</i> Pócs	340
*** <i>Cololejeunea zenkeri</i> (Steph.) E.W.Jones.....	323
*** <i>Colura acroloba</i> (Prantl) Jovet-Ast	344
** <i>Colura amboinensis</i> Steph.....	344
*** <i>Colura andoi</i> Gradst. et Jovet-Ast.....	341
*** <i>Colura ari</i> (Steph.) Steph.	342
*** <i>Colura australiensis</i> Jovet-Ast.....	342
*** <i>Colura berghenii</i> Jovet-Ast.....	340
*** <i>Colura bicornis</i> Jovet-Ast	343
*** <i>Colura bisvoluta</i> Herzog et Jovet-Ast	343
*** <i>Colura brevistyla</i> Herzog	342
*** <i>Colura calderae</i> Pócs.....	342
*** <i>Colura calyptriifolia</i> (Hook.) Dumort.....	341
*** <i>Colura clementis</i> Grolle.....	342
*** <i>Colura conica</i> (Sande Lac.) K.I.Goebel	342
*** <i>Colura corniantha</i> Grolle.....	344
*** <i>Colura corynophora</i> (Nees, Lindenb. et Gottsche) Trevis.	342
*** <i>Colura crenulata</i> Grolle	342
*** <i>Colura crispiloba</i> Jovet-Ast	342

***	<i>Colura cristata</i> Jovet-Ast.....	341
**	<i>Colura cylindrica</i> Herzog.....	342
***	<i>Colura cymbalifera</i> Herzog et Jovet-Ast	342
**	<i>Colura denticulata</i> Jovet-Ast.....	344
***	<i>Colura digitalis</i> (Mitt.) Steph.	342
**	<i>Colura digitalis</i> var. <i>mucronata</i> Pócs	342
***	<i>Colura dusenii</i> Steph.	342
***	<i>Colura fastigiata</i> Jovet-Ast.....	342
***	<i>Colura fistulosa</i> Jovet-Ast.....	342
***	<i>Colura galeata</i> Jovet-Ast.....	344
***	<i>Colura greig-smithii</i> Jovet-Ast.....	341
***	<i>Colura hattoriana</i> Pócs.....	342
***	<i>Colura hedbergiana</i> Pócs.....	341
***	<i>Colura heimii</i> Jovet-Ast.....	342
***	<i>Colura hemisphaerica</i> Jovet-Ast.....	342
***	<i>Colura herzogii</i> Jovet-Ast.....	342
***	<i>Colura hirta</i> Steph.....	344
***	<i>Colura humbertii</i> Jovet-Ast.....	341
**	<i>Colura imperfecta</i> Steph.....	344
***	<i>Colura inflata</i> K.I.Goebel.....	341
***	<i>Colura inornata</i> Jovet-Ast.....	344
***	<i>Colura inuii</i> Horik.....	342
***	<i>Colura irrorata</i> (Spruce) Heinrichs, Y.Yu, Schäf.-Verw. et Pócs	341
***	<i>Colura itatyana</i> Steph.....	343
***	<i>Colura jovet-astiae</i> Grolle	341
**	<i>Colura junghuhniana</i> (Prantl) Steph.....	341
***	<i>Colura karstenii</i> K.I.Goebel.....	344
**	<i>Colura koponenii</i> Pócs	342
**	<i>Colura mauritiana</i> Pócs.....	342
***	<i>Colura maxima</i> Jovet-Ast	342
**	<i>Colura medusa</i> J.Eggers et Pócs	341
***	<i>Colura meijeri</i> Jovet-Ast	341
**	<i>Colura mizutanii</i> Pócs.....	341
***	<i>Colura mosenii</i> Steph.....	342
***	<i>Colura naumannii</i> (Schiffn.) Steph.....	343
**	<i>Colura norrisii</i> Pócs	342
***	<i>Colura obesa</i> Jovet-Ast.....	343
***	<i>Colura obvoluta</i> Jovet-Ast.....	341
***	<i>Colura ornata</i> K.I.Goebel.....	341
***	<i>Colura ornithocephala</i> Herzog.....	343
***	<i>Colura palawanensis</i> Jovet-Ast	341
***	<i>Colura pallida</i> Steph.	343
***	<i>Colura pluridentata</i> Jovet-Ast	343
***	<i>Colura pulcherrima</i> Jovet-Ast.....	343
**	<i>Colura pulcherrima</i> var. <i>bartlettii</i> Jovet-Ast	343
***	<i>Colura queenslandica</i> B.M.Thiers.....	344
***	<i>Colura rhynchophora</i> Jovet-Ast	341
***	<i>Colura saccophylla</i> E.A.Hodgs. et Herzog	343
***	<i>Colura saroltae</i> Pócs.....	344
***	<i>Colura schusteri</i> Grolle.....	343
***	<i>Colura siamensis</i> Jovet-Ast	344
***	<i>Colura speciosa</i> Jovet-Ast	343

**	<i>Colura streimannii</i> Pócs.....	343
***	<i>Colura strophiolata</i> Jovet-Ast.....	344
***	<i>Colura superba</i> (Mont.) Steph.....	343
***	<i>Colura tenuicornis</i> (A.Evans) Steph.....	341
***	<i>Colura thomeensis</i> Pócs.....	343
***	<i>Colura tixieri</i> Jovet-Ast.....	344
***	<i>Colura tortifolia</i> (Nees et Mont.) Trevis.....	343
***	<i>Colura tutuilana</i> (Pearson) H.A.Mill.....	343
***	<i>Colura ulei</i> Jovet-Ast.....	343
***	<i>Colura usambarica</i> E.W.Jones.....	344
***	<i>Colura valida</i> Jovet-Ast.....	341
***	<i>Colura verdoornii</i> Herzog et Jovet-Ast.....	341
***	<i>Colura vietnamensis</i> Jovet-Ast et Tixier.....	344
***	<i>Colura vitiensis</i> Pócs et J.Eggers.....	343
***	<i>Conocephalum conicum</i> (L.) Dumort.....	485
***	<i>Conocephalum japonicum</i> (Thunb.) Grolle.....	486
***	<i>Conocephalum salebrosum</i> Szweyk., Buczk. et Odrzyk.....	485
**	<i>Conoscyphus koponenii</i> Piippo, Mamontov et Potemkin.....	193
***	<i>Conoscyphus trapezioides</i> (Sande Lac.) Schiffn.....	193
***	<i>Corsinia coriandrina</i> (Spreng.) Lindb.....	486
***	<i>Cronisia fimbriata</i> (Nees) Whittem. et Bischl.....	486
***	<i>Cronisia weddellii</i> (Mont.) Grolle.....	486
***	<i>Crossocalyx hellerianus</i> (Nees ex Lindenb.) Meyl.....	52
***	<i>Crossocalyx tenuis</i> (Harry Williams) Schljakov.....	52
*	<i>Crossotolejeunea curvifolia</i> Steph.....	508
***	<i>Cryptocolea imbricata</i> R.M.Schust.....	123
***	<i>Cryptocoleopsis imbricata</i> Amakawa.....	110
***	<i>Cryptolophocolea aculeata</i> (Mitt.) L.Söderstr.....	193
**	<i>Cryptolophocolea chiloscyphoidea</i> (Lindenb.) L.Söderstr. et Crand.-Stotl.....	193
***	<i>Cryptolophocolea ciliolata</i> (Nees) L.Söderstr., Crand.-Stotl., Stotler et Váňa.....	193
**	<i>Cryptolophocolea compacta</i> (Mitt.) L.Söderstr.....	193
***	<i>Cryptolophocolea connata</i> (Sw.) L.Söderstr. et Váňa.....	193
***	<i>Cryptolophocolea connatifolia</i> (J.J.Engel) L.Söderstr.....	194
***	<i>Cryptolophocolea costata</i> (Nees) L.Söderstr.....	194
***	<i>Cryptolophocolea edentata</i> (J.J.Engel) L.Söderstr.....	194
**	<i>Cryptolophocolea explanata</i> (Mitt.) Váňa et Crand.-Stotl.....	194
**	<i>Cryptolophocolea fleischeri</i> (Steph.) L.Söderstr.....	194
***	<i>Cryptolophocolea guadalupensis</i> (Steph.) L.Söderstr. et Váňa.....	194
***	<i>Cryptolophocolea helmsiana</i> (Steph.) L.Söderstr.....	194
***	<i>Cryptolophocolea leucophylla</i> (Hook.f. et Taylor) L.Söderstr.....	194
*	<i>Cryptolophocolea levieri</i> (Schiffn.) L.Söderstr.....	194
*	<i>Cryptolophocolea lilliena</i> (Steph.) L.Söderstr.....	194
***	<i>Cryptolophocolea martiana</i> (Nees) L.Söderstr., Crand.-Stotl. et Stotler.....	194
**	<i>Cryptolophocolea martiana</i> subsp. <i>bidentula</i> (Nees) L.Söderstr., Crand.-Stotl. et Stotler.....	194
**	<i>Cryptolophocolea martiana</i> var. <i>perisodonta</i> (Spruce) Gradst.....	194
*	<i>Cryptolophocolea massalongoana</i> (Schiffn.) L.Söderstr.....	195
***	<i>Cryptolophocolea mitteniana</i> (Colenso) L.Söderstr.....	195
***	<i>Cryptolophocolea mitteniana</i> var. <i>obtusa</i> (J.J.Engel) L.Söderstr.....	195
***	<i>Cryptolophocolea mitteniana</i> var. <i>symmetrica</i> (J.J.Engel) L.Söderstr.....	195
***	<i>Cryptolophocolea pallida</i> (Mitt.) L.Söderstr.....	195
**	<i>Cryptolophocolea pallidovirens</i> (Hook.f. et Taylor) L.Söderstr.....	195
*	<i>Cryptolophocolea proteus</i> (Herzog) L.Söderstr.....	195

* <i>Cryptolophocolea pycnophylla</i> (Spruce) L.Söderstr.....	195
*** <i>Cryptolophocolea regularis</i> (Steph.) L.Söderstr.....	195
*** <i>Cryptolophocolea spinifera</i> (Hook.f. et Taylor) L.Söderstr.....	195
* <i>Cryptolophocolea stephaniai</i> (Schiffn.) L.Söderstr.....	195
*** <i>Cryptolophocolea subopposita</i> (J.J.Engel) L.Söderstr.....	195
* <i>Cryptolophocolea thermanum</i> (Schiffn.) L.Söderstr.....	195
*** <i>Cryptolophocolea trialata</i> (Gottsche) L.Söderstr.....	196
** <i>Cryptolophocolea tricolorata</i> (Hässel) Crand.-Stotl. et Stotler.....	196
*** <i>Cryptolophocolea tuberculata</i> (J.J.Engel) L.Söderstr.....	196
* <i>Cryptolophocolea whittieriana</i> (Inoue et H.A.Mill.) L.Söderstr.....	196
*** <i>Cryptomitrium himalayense</i> Kashyap.....	481
*** <i>Cryptomitrium oreades</i> Perold.....	481
*** <i>Cryptomitrium tenerum</i> (Hook.) Austin ex Underw.....	481
*** <i>Cuspidatula contracta</i> (Reinw., Blume et Nees) Steph.....	45
*** <i>Cuspidatula flaccida</i> (Steph.) K.Feldberg, Váňa, Hentschel et Heinrichs.....	45
*** <i>Cuspidatula flexicaulis</i> (Nees) Váňa et L.Söderstr.....	45
*** <i>Cuspidatula kirkii</i> (Steph.) K.Feldberg, Váňa, Hentschel et Heinrichs.....	46
*** <i>Cuspidatula monodon</i> (Taylor) Steph.....	46
*** <i>Cuspidatula orbicularis</i> (Grolle) Váňa et L.Söderstr.....	46
*** <i>Cuspidatula robusta</i> (Austin) Váňa et L.Söderstr.....	46
*** <i>Cyathodium aureonitens</i> (Griff.) Schiffn.....	486
*** <i>Cyathodium bischlerianum</i> N.Salazar.....	486
*** <i>Cyathodium cavernarum</i> Kunze.....	486
** <i>Cyathodium denticulatum</i> Udar et S.C.Srivast.....	486
*** <i>Cyathodium foetidissimum</i> Schiffn.....	487
*** <i>Cyathodium indicum</i> Udar et D.K.Singh.....	487
*** <i>Cyathodium mehranum</i> D.K.Singh.....	487
*** <i>Cyathodium smaragdinum</i> Schiffn.....	487
*** <i>Cyathodium spruceanum</i> Prosk.....	487
* <i>Cyathodium spurium</i> (Dicks.) Lindb. ex Braithw.....	487
*** <i>Cyathodium steerei</i> Hässel.....	487
*** <i>Cyathodium tuberculatum</i> Udar et D.K.Singh.....	487
*** <i>Cyathodium tuberosum</i> Kashyap.....	487
*** <i>Cyclolejeunea accedens</i> (Gottsche) A.Evans.....	351
*** <i>Cyclolejeunea chitonia</i> (Taylor) A.Evans.....	351
*** <i>Cyclolejeunea convexistipa</i> (Lehm. et Lindenb.) A.Evans.....	351
* <i>Cyclolejeunea ecuadorensis</i> Steph.....	351
*** <i>Cyclolejeunea foliorum</i> (Nees) Grolle.....	351
* <i>Cyclolejeunea integerrima</i> (Steph.) Steph.....	351
*** <i>Cyclolejeunea luteola</i> (Spruce) Grolle.....	351
*** <i>Cyclolejeunea peruviana</i> (Lehm. et Lindenb.) A.Evans.....	351
* <i>Cyclolejeunea spectabilis</i> Steph.....	351
*** <i>Cylindrocolea abyssinica</i> (Gola) Váňa.....	73
*** <i>Cylindrocolea andersonii</i> R.M.Schust.....	72
*** <i>Cylindrocolea brasiliensis</i> D.P.Costa, N.D.Santos et Váňa.....	72
*** <i>Cylindrocolea chevalieri</i> (Steph.) R.M.Schust.....	72
*** <i>Cylindrocolea gittinsii</i> (E.W.Jones) R.M.Schust.....	73
*** <i>Cylindrocolea kiaeri</i> (Austin) Váňa.....	73
*** <i>Cylindrocolea madagascariensis</i> (Steph.) R.M.Schust.....	73
*** <i>Cylindrocolea nigerica</i> (E.W.Jones) R.M.Schust.....	73
*** <i>Cylindrocolea novae-caledoniae</i> (Grolle) R.M.Schust.....	73
** <i>Cylindrocolea obtusifolia</i> Fulford.....	73

***	<i>Cylindrocolea planifolia</i> (Steph.) R.M.Schust.	73
***	<i>Cylindrocolea recurvifolia</i> (Steph.) Inoue	73
**	<i>Cylindrocolea reticulata</i> Udar et Ad.Kumar	73
***	<i>Cylindrocolea rhizantha</i> (Mont.) R.M.Schust.	73
***	<i>Cylindrocolea sanctae-helenae</i> M.Wigginton	73
***	<i>Cylindrocolea sprucei</i> R.M.Schust.	73
***	<i>Cylindrocolea tagawae</i> (N.Kitag.) R.M.Schust.	73
***	<i>Cylindrocolea ugandica</i> (E.W.Jones) R.M.Schust.	73
***	<i>Cyrtolejeunea holostipa</i> (Spruce) A.Evans	316
***	<i>Cystolejeunea lineata</i> (Lehm. et Lindenb.) A.Evans	316
***	<i>Dactylophorella muricata</i> (Gottsche) R.M.Schust.	300
***	<i>Deceptifrons plagiochiloides</i> J.J.Engel et Váňa	196
**	<i>Delavayella serrata</i> Steph.	117
**	<i>Delavayella serrata</i> var. <i>purpurea</i> P.C.Chen	117
***	<i>Dendroceros acutilobus</i> Steph.	32
*	<i>Dendroceros adglutinatus</i> (Hook.f. et Taylor) Gottsche, Lindenb. et Nees	33
***	<i>Dendroceros africanus</i> Steph.	33
**	<i>Dendroceros allionii</i> Steph.	33
**	<i>Dendroceros australis</i> Steph.	33
***	<i>Dendroceros borbonicus</i> Steph.	32
**	<i>Dendroceros breutelii</i> Nees	33
**	<i>Dendroceros breutelii</i> var. <i>surinamensis</i> Lindenb. et Gottsche	33
***	<i>Dendroceros cavernosus</i> J.Haseg.	32
***	<i>Dendroceros cichoraceus</i> (Mont.) Gottsche	33
*	<i>Dendroceros crassicoastatus</i> Steph.	33
**	<i>Dendroceros crassinervis</i> (Nees) Gottsche	33
***	<i>Dendroceros crispatus</i> (Hook.) Nees	33
**	<i>Dendroceros crispatus</i> var. <i>simplicior</i> Spruce	33
***	<i>Dendroceros crispus</i> (Sw.) Nees	32
**	<i>Dendroceros cucullatus</i> Steph.	33
***	<i>Dendroceros difficilis</i> Steph.	32
*	<i>Dendroceros exalatus</i> Steph.	33
***	<i>Dendroceros foliicola</i> J.Haseg.	32
*	<i>Dendroceros gracilis</i> Steph.	33
***	<i>Dendroceros granulatus</i> Mitt.	33
**	<i>Dendroceros herasii</i> M.Infante	33
**	<i>Dendroceros humboldtensis</i> Hürl.	33
***	<i>Dendroceros japonicus</i> Steph.	32
***	<i>Dendroceros javanicus</i> (Nees) Nees	32
***	<i>Dendroceros muelleri</i> Steph.	32
***	<i>Dendroceros ogeramnangus</i> Piippo	32
**	<i>Dendroceros paivae</i> C.A.García, Sérgio et J.C.Villarreal	33
***	<i>Dendroceros pedunculatus</i> Steph.	32
*	<i>Dendroceros rarus</i> Steph.	34
*	<i>Dendroceros reticulatus</i> Herzog	34
**	<i>Dendroceros rigidus</i> Steph.	34
***	<i>Dendroceros seramensis</i> J.Haseg.	34
**	<i>Dendroceros subdifficilis</i> S.Hatt.	32
***	<i>Dendroceros subplanus</i> Steph.	32
**	<i>Dendroceros subtropicus</i> C.J.Wild	34
**	<i>Dendroceros tabitensis</i> Ångstr.	34
***	<i>Dendroceros tubercularis</i> S.Hatt.	32

***	<i>Dendroceros validus</i> Steph.....	33
**	<i>Dendroceros vesconianus</i> Gottsche	33
**	<i>Dendroceros watsianus</i> Steph.	33
***	<i>Dendrolembidium dendroides</i> (Carrington et Pearson) Herzog.....	163
***	<i>Dendrolembidium tenax</i> (Grev.) Herzog.....	164
***	<i>Dendromastigophora flagellifera</i> (Hook.) R.M.Schust.....	217
***	<i>Denotarisia linguifolia</i> (De Not.) Grolle.....	46
***	<i>Dicranolejeunea axillaris</i> (Nees et Mont.) Schiffn.	299
*	<i>Dicranolejeunea bovonei</i> Gola.....	299
***	<i>Dinckleria fruticella</i> (Hook.f. et Taylor) J.J.Engel et Heinrichs.....	219
***	<i>Dinckleria pleurata</i> (Hook.f. et Taylor) Trevis.....	219
***	<i>Diplasiolejeunea alata</i> Jovet-Ast	344
***	<i>Diplasiolejeunea albifolia</i> (Taylor) E.W.Jones	347
***	<i>Diplasiolejeunea andringitrae</i> Schäf.-Verw.	346
***	<i>Diplasiolejeunea armatiloba</i> Steph.	345
***	<i>Diplasiolejeunea aulae</i> E.W.Jones	347
**	<i>Diplasiolejeunea auriculata</i> Tixier.....	347
***	<i>Diplasiolejeunea borbidiana</i> Reyes Montoya	346
***	<i>Diplasiolejeunea brunnea</i> Steph.	346
***	<i>Diplasiolejeunea buckii</i> Grolle.....	347
**	<i>Diplasiolejeunea caribea</i> Tixier.....	346
***	<i>Diplasiolejeunea cavifolia</i> Steph.	346
***	<i>Diplasiolejeunea cobrensis</i> Steph.....	346
**	<i>Diplasiolejeunea cobrensis</i> subsp. <i>antisirananae</i> Pócs.....	346
**	<i>Diplasiolejeunea cogoensis</i> M.Infante, Heras et Pócs	346
**	<i>Diplasiolejeunea columbica</i> Tixier	347
*	<i>Diplasiolejeunea comorensis</i> Tixier.....	347
***	<i>Diplasiolejeunea cornuta</i> Steph.....	346
**	<i>Diplasiolejeunea cubensis</i> Tixier.....	346
**	<i>Diplasiolejeunea cyanguensis</i> Tixier	347
***	<i>Diplasiolejeunea deslooveri</i> Vanden Berghen.....	347
***	<i>Diplasiolejeunea eggertii</i> Pócs	345
**	<i>Diplasiolejeunea ensifera</i> Tixier	345
***	<i>Diplasiolejeunea erostrata</i> Schäf.-Verw.	347
*	<i>Diplasiolejeunea evansii</i> Tixier	347
*	<i>Diplasiolejeunea glaziovii</i> Tixier.....	346
**	<i>Diplasiolejeunea gradsteinii</i> Tixier.....	347
***	<i>Diplasiolejeunea grandirostrata</i> Schäf.-Verw.....	347
***	<i>Diplasiolejeunea grolleana</i> Reyes Montoya	347
*	<i>Diplasiolejeunea guadalupensis</i> Steph.	345
**	<i>Diplasiolejeunea hamata</i> Tixier	347
*	<i>Diplasiolejeunea heimii</i> Jovet-Ast.....	345
***	<i>Diplasiolejeunea ingekarolae</i> Schäf.-Verw.....	346
**	<i>Diplasiolejeunea insignis</i> Tixier	347
*	<i>Diplasiolejeunea integerrima</i> Tixier	347
**	<i>Diplasiolejeunea involuta</i> S.Winkl.	345
**	<i>Diplasiolejeunea involuta</i> subsp. <i>andicola</i> Pócs	345
***	<i>Diplasiolejeunea johnsonii</i> A.Evans.....	345
**	<i>Diplasiolejeunea johnsonii</i> var. <i>mexicana</i> Jovet-Ast	345
**	<i>Diplasiolejeunea jonesii</i> Tixier.....	346
***	<i>Diplasiolejeunea jovet-astiae</i> Grolle	346
***	<i>Diplasiolejeunea kraussiana</i> (Lindenb.) Steph.	346

***	<i>Diplasiolejeunea lanceolata</i> Grolle	347
***	<i>Diplasiolejeunea latipuensis</i> Tixier	348
***	<i>Diplasiolejeunea leiocarpa</i> Jovet-Ast	346
**	<i>Diplasiolejeunea lemuriana</i> Tixier	348
**	<i>Diplasiolejeunea longilobula</i> Herzog	348
**	<i>Diplasiolejeunea magnistipula</i> Tixier	348
***	<i>Diplasiolejeunea malleiformis</i> (A.Evans) Tixier	346
***	<i>Diplasiolejeunea mayaykuensis</i> Schäf.-Verw. et Heinrichs	348
*	<i>Diplasiolejeunea montecristensis</i> S.Winkl.	345
***	<i>Diplasiolejeunea onraedtii</i> Grolle	348
***	<i>Diplasiolejeunea ornata</i> Pócs et Schäf.-Verw.	346
**	<i>Diplasiolejeunea palustrium</i> Tixier	346
***	<i>Diplasiolejeunea papilionacea</i> R.M.Schust.	345
***	<i>Diplasiolejeunea patelligera</i> Herzog	347
***	<i>Diplasiolejeunea pauckertii</i> (Nees) Steph.	345
***	<i>Diplasiolejeunea pellucida</i> (C.F.W.Meissn. ex Spreng.) Schiffn.	346
**	<i>Diplasiolejeunea phyllarthronii</i> Tixier	346
***	<i>Diplasiolejeunea plicatiloba</i> (Hook.f. et Taylor) Grolle	347
***	<i>Diplasiolejeunea pluridentata</i> Schäf.-Verw.	345
***	<i>Diplasiolejeunea pocsii</i> Reyes Montoya	346
***	<i>Diplasiolejeunea pusilla</i> Grolle	347
**	<i>Diplasiolejeunea ramicola</i> Tixier	348
***	<i>Diplasiolejeunea ranomafanae</i> Pócs	347
***	<i>Diplasiolejeunea replicata</i> (Spruce) Steph.	345
**	<i>Diplasiolejeunea riclefgrollei</i> Schäf.-Verw.	348
**	<i>Diplasiolejeunea rudolphiana</i> Steph.	345
***	<i>Diplasiolejeunea runsorensis</i> Steph.	345
**	<i>Diplasiolejeunea subcornuta</i> Tixier	348
***	<i>Diplasiolejeunea symoensii</i> Vanden Berghen	348
***	<i>Diplasiolejeunea unidentata</i> (Lehm. et Lindenb.) Schiffn.	345
***	<i>Diplasiolejeunea utriculata</i> Steph.	344
***	<i>Diplasiolejeunea villaumei</i> Steph.	347
***	<i>Diplasiolejeunea zakiae</i> Tixier	347
***	<i>Diplocolea sikkimensis</i> Amakawa	123
***	<i>Diplophyllum africanum</i> S.W.Arnell	83
***	<i>Diplophyllum albicans</i> (L.) Dumort.	83
***	<i>Diplophyllum andicola</i> R.M.Schust.	83
***	<i>Diplophyllum andrewsii</i> A.Evans	83
*	<i>Diplophyllum androgynum</i> J.J.Engel et G.L.Merr.	83
*	<i>Diplophyllum angustifolium</i> J.J.Engel et G.L.Merr.	83
***	<i>Diplophyllum apiculatum</i> (A.Evans) Steph.	83
**	<i>Diplophyllum dioicum</i> R.M.Schust.	83
**	<i>Diplophyllum exiguum</i> Steph.	83
*	<i>Diplophyllum gemmiparum</i> J.J.Engel et G.L.Merr.	83
*	<i>Diplophyllum incrassatum</i> J.J.Engel et G.L.Merr.	84
***	<i>Diplophyllum nanum</i> Herzog	84
*	<i>Diplophyllum novum</i> J.J.Engel et G.L.Merr.	84
***	<i>Diplophyllum obtusatum</i> (R.M.Schust.) R.M.Schust.	84
***	<i>Diplophyllum obtusifolium</i> (Hook.) Dumort.	84
**	<i>Diplophyllum obtusifolium</i> subsp. <i>domesticum</i> (Gottsche) Váňa	84
**	<i>Diplophyllum recurvifolium</i> C.Massal.	83
***	<i>Diplophyllum serrulatum</i> (Müll.Frib.) Steph.	84

***	<i>Diplophyllum squarrosus</i> Steph.....	83
***	<i>Diplophyllum taxifolium</i> (Wahlenb.) Dumort.....	84
**	<i>Diplophyllum taxifolium</i> var. <i>mucronatum</i> R.M.Schust.	84
***	<i>Diplophyllum trollii</i> Grolle	84
***	<i>Diplophyllum verrucosum</i> R.M.Schust.	83
***	<i>Douinia imbricata</i> (M.Howe) Konstant. et Vilnet.....	84
***	<i>Douinia ovata</i> (Dicks.) H.Buch.....	84
***	<i>Douinia plicata</i> (Lindb.) Konstant. et Vilnet.....	84
**	<i>Drepanolejeunea actinogyna</i> Inuthai, R.L.Zhu et Chantanaorr.	359
***	<i>Drepanolejeunea aculeata</i> Bischl.....	353
**	<i>Drepanolejeunea anderssonii</i> (Ångstr.) A.Evans	353
***	<i>Drepanolejeunea andina</i> Herzog	353
***	<i>Drepanolejeunea angustifolia</i> (Mitt.) Grolle.....	353
***	<i>Drepanolejeunea ankasica</i> E.W.Jones	353
***	<i>Drepanolejeunea anoplantha</i> (Spruce) Steph.	354
***	<i>Drepanolejeunea appalachiana</i> R.M.Schust.	354
***	<i>Drepanolejeunea araucariae</i> Steph.....	354
**	<i>Drepanolejeunea araucariae</i> var. <i>chilensis</i> Herzog	354
**	<i>Drepanolejeunea aucklandica</i> Steph.	354
***	<i>Drepanolejeunea aurita</i> Bischl.....	354
**	<i>Drepanolejeunea bakeri</i> Herzog	354
***	<i>Drepanolejeunea bidens</i> (Prantl) A.Evans	354
**	<i>Drepanolejeunea bidoupensis</i> Pócs	360
***	<i>Drepanolejeunea biocellata</i> A.Evans.....	354
***	<i>Drepanolejeunea bischlerae</i> (Grolle) Grolle et R.L.Zhu.....	360
**	<i>Drepanolejeunea blumei</i> Steph.	354
**	<i>Drepanolejeunea brunnea</i> Mizut.	354
**	<i>Drepanolejeunea caledonica</i> Steph.	354
***	<i>Drepanolejeunea campanulata</i> (Spruce) Steph.	354
**	<i>Drepanolejeunea canceroides</i> H.A.Mill. et Bonner	354
**	<i>Drepanolejeunea capulata</i> (Taylor) J.B.Jack et Steph.....	354
**	<i>Drepanolejeunea capulata</i> var. <i>flagellifera</i> S.W.Arnell	354
**	<i>Drepanolejeunea ciliata</i> Mizut.	354
***	<i>Drepanolejeunea commutata</i> Grolle et R.L.Zhu	360
***	<i>Drepanolejeunea crassiretis</i> A.Evans.....	354
***	<i>Drepanolejeunea crucianella</i> (Taylor) A.Evans.....	354
***	<i>Drepanolejeunea cultrella</i> (Mitt.) Steph.....	354
**	<i>Drepanolejeunea cutervoensis</i> (Loitl.) Grolle	354
***	<i>Drepanolejeunea cyclops</i> (Sande Lac.) Grolle et R.L.Zhu	360
***	<i>Drepanolejeunea dactylophora</i> (Nees, Lindenb. et Gottsche) J.B.Jack et Steph.....	360
***	<i>Drepanolejeunea dactylophora</i> var. <i>submuricata</i> Herzog	360
**	<i>Drepanolejeunea decurviloba</i> Steph.	355
**	<i>Drepanolejeunea dentistipula</i> Steph.	353
*	<i>Drepanolejeunea deslooveri</i> Vanden Berghen	355
*	<i>Drepanolejeunea devendrae</i> Sushil K.Singh et M.Dey	360
*	<i>Drepanolejeunea dissitifolia</i> A.Evans.....	355
**	<i>Drepanolejeunea elegans</i> Herzog.....	355
**	<i>Drepanolejeunea erecta</i> (Steph.) Mizut.....	355
**	<i>Drepanolejeunea evansii</i> Bischl. ex L.Söderstr., A.Hagborg et von Konrat.....	355
***	<i>Drepanolejeunea fissicornua</i> Steph.	359
***	<i>Drepanolejeunea fleischeri</i> (Steph.) Grolle et R.L.Zhu.....	360
**	<i>Drepanolejeunea foliicola</i> Horik.	360

***	<i>Drepanolejeunea fragilis</i> Bischl. ex L.Söderstr., A.Hagborg et von Konrat	355
**	<i>Drepanolejeunea fulfordiae</i> L.Söderstr.	355
***	<i>Drepanolejeunea granatensis</i> (Prantl) Bischl.....	355
**	<i>Drepanolejeunea grandis</i> Herzog	355
***	<i>Drepanolejeunea grollei</i> M.E.Reiner et Schäf.-Verw.	355
**	<i>Drepanolejeunea grossidens</i> Steph.	355
***	<i>Drepanolejeunea hamatifolia</i> (Hook.) Schiffn.	355
*	<i>Drepanolejeunea hampeana</i> Steph.	359
**	<i>Drepanolejeunea hamulata</i> Steph.	355
***	<i>Drepanolejeunea helenae</i> Pócs	355
**	<i>Drepanolejeunea herzogii</i> R.L.Zhu et M.L.So	355
***	<i>Drepanolejeunea inchoata</i> (C.F.W.Meissn.) Steph.	356
**	<i>Drepanolejeunea inchoata</i> var. <i>palmicola</i> Pócs	356
**	<i>Drepanolejeunea inchoata</i> var. <i>roraimae</i> (Steph. ex Zwickel) Bischl.	356
***	<i>Drepanolejeunea infundibulata</i> (Spruce) A.Evans.....	356
*	<i>Drepanolejeunea integerrima</i> Herzog.....	360
***	<i>Drepanolejeunea integribracteata</i> Bischl.....	356
***	<i>Drepanolejeunea intermedia</i> Zwickel.....	359
**	<i>Drepanolejeunea laciniata</i> Qiong He et R.L.Zhu	359
**	<i>Drepanolejeunea laevis</i> (Mitt.) Steph.....	356
*	<i>Drepanolejeunea lancifolia</i> (Gottsche) J.B.Jack et Steph.	356
***	<i>Drepanolejeunea levicornua</i> Steph.	356
***	<i>Drepanolejeunea lichenicola</i> (Spruce) Steph.....	356
*	<i>Drepanolejeunea longicornua</i> (Herzog) Mizut.	359
**	<i>Drepanolejeunea longicurvis</i> (Steph.) Grolle et R.L.Zhu	360
**	<i>Drepanolejeunea longii</i> Grolle et R.L.Zhu.....	356
***	<i>Drepanolejeunea lyrata</i> Grolle.....	359
**	<i>Drepanolejeunea macrodonta</i> (Mitt.) Steph.	356
***	<i>Drepanolejeunea madagascariensis</i> (Steph.) Grolle.....	359
**	<i>Drepanolejeunea mawtmiana</i> Ajit P.Singh et V.Nath.....	356
**	<i>Drepanolejeunea microcarpa</i> Pearson.....	356
**	<i>Drepanolejeunea moluccensis</i> Herzog.....	356
***	<i>Drepanolejeunea mosenii</i> (Steph.) Bischl.	356
*	<i>Drepanolejeunea nymanii</i> Steph.	359
*	<i>Drepanolejeunea obliqua</i> Steph.	356
**	<i>Drepanolejeunea obtriangulata</i> T.Kodama	356
**	<i>Drepanolejeunea obtusifolia</i> T.Yamag.....	357
***	<i>Drepanolejeunea orthophylla</i> (Nees et Mont.) Bischl.	357
***	<i>Drepanolejeunea palmifolia</i> (Nees) Schiffn.....	357
***	<i>Drepanolejeunea pentadactyla</i> (Mont.) Steph.	357
**	<i>Drepanolejeunea perissodonta</i> (Spruce) Bischl.....	357
***	<i>Drepanolejeunea physifolia</i> (Gottsche) Pearson.....	357
**	<i>Drepanolejeunea pinnatiloba</i> Schiffn.	357
**	<i>Drepanolejeunea pleiodictya</i> Herzog.....	357
***	<i>Drepanolejeunea pocsii</i> Grolle	359
***	<i>Drepanolejeunea polyrhiza</i> (Nees) Grolle et R.L.Zhu	360
**	<i>Drepanolejeunea propagulifera</i> Herzog	357
**	<i>Drepanolejeunea pseudoneura</i> (A.Evans) Grolle	357
**	<i>Drepanolejeunea pterocalyx</i> (Herzog) Bischl.	357
**	<i>Drepanolejeunea pulla</i> (Mitt.) Grolle	360
**	<i>Drepanolejeunea pungens</i> Bischl.	357
**	<i>Drepanolejeunea ramentiflora</i> Steph.	357

* <i>Drepanolejeunea ruandensis</i> Vanden Berghen.....	357
*** <i>Drepanolejeunea senticosa</i> Bischl.	357
* <i>Drepanolejeunea serricalyx</i> Herzog	360
*** <i>Drepanolejeunea siamensis</i> (Bischl.) Grolle et R.L.Zhu.....	360
** <i>Drepanolejeunea sikkimensis</i> (Udar et U.S.Awasthi) Grolle	357
*** <i>Drepanolejeunea spicata</i> (Steph.) Grolle et R.L.Zhu.....	360
** <i>Drepanolejeunea spinistipula</i> Herzog.....	353
** <i>Drepanolejeunea spinosa</i> Herzog	358
** <i>Drepanolejeunea spinosocornuta</i> Steph.....	358
* <i>Drepanolejeunea subdissitifolia</i> Herzog.....	358
** <i>Drepanolejeunea submuricata</i> R.M.Schust.	358
** <i>Drepanolejeunea subquadrata</i> (Mitt.) Steph.	358
** <i>Drepanolejeunea subvittata</i> (Herzog) Grolle.....	358
** <i>Drepanolejeunea symoensii</i> Vanden Berghen et Grolle.....	359
** <i>Drepanolejeunea symoensii</i> var. <i>minor</i> Tixier	359
* <i>Drepanolejeunea tenax</i> K.I.Goebel	358
** <i>Drepanolejeunea tenera</i> K.I.Goebel.....	358
* <i>Drepanolejeunea tenera</i> var. <i>litoceras</i> Herzog	358
*** <i>Drepanolejeunea termatensis</i> (Gottsche) Schiffn.	358
** <i>Drepanolejeunea teysmannii</i> (Gottsche) Steph.....	358
*** <i>Drepanolejeunea thwaitesiana</i> (Mitt.) Steph.....	360
** <i>Drepanolejeunea thwaitesiana</i> var. <i>zhengii</i> R.L.Zhu.....	360
*** <i>Drepanolejeunea tibetana</i> (P.C.Wu et J.S.Lou) Grolle et R.L.Zhu	360
*** <i>Drepanolejeunea trematodes</i> (Nees) Bischl.	359
*** <i>Drepanolejeunea tricornua</i> Herzog.....	360
** <i>Drepanolejeunea tridactyla</i> (Gottsche) Steph.....	358
*** <i>Drepanolejeunea trigonophylla</i> Steph.	358
** <i>Drepanolejeunea tristaniana</i> S.W.Arnell.....	358
** <i>Drepanolejeunea tuyamae</i> S.Hatt.	358
** <i>Drepanolejeunea ualanensis</i> Inoue et H.A.Mill.	358
** <i>Drepanolejeunea unguolata</i> (Steph.) Grolle.....	358
** <i>Drepanolejeunea urceolata</i> R.M.Schust.	359
** <i>Drepanolejeunea valiae</i> Jovet-Ast	359
** <i>Drepanolejeunea vandenberghenii</i> Buchb. et Eb.Fisch.	359
*** <i>Drepanolejeunea vesiculosa</i> (Mitt.) Steph.....	359
** <i>Drepanolejeunea yulensis</i> Steph.	359
*** <i>Drepanolejeunea yunnanensis</i> (P.C.Chen) Grolle et R.L.Zhu	360
*** <i>Drucella integristipula</i> (Steph.) E.A.Hodgs.	163
*** <i>Dumortiera hirsuta</i> (Sw.) Nees	487
* <i>Dumortiera hirsuta</i> subsp. <i>nepalensis</i> (Taylor) R.M.Schust.....	487
* <i>Dumortiera hirsuta</i> subsp. <i>tatunoi</i> Horik.	487
*** <i>Echinolejeunea papillata</i> (Mitt.) R.M.Schust. ex Hamlin	362
*** <i>Endogemma caespiticia</i> (Lindenb.) Konstant., Vilnet et A.V.Troitsky	109
** <i>Enigmella thallina</i> G.A.M.Scott et K.G.Beckm.	93
** <i>Eocalypogeia quelpaertensis</i> (S.Hatt. et Inoue) R.M.Schust.	107
** <i>Eocalypogeia schusterana</i> (S.Hatt. et Mizut.) R.M.Schust.	107
*** <i>Eotrichocolea furukii</i> T.Katag.....	256
*** <i>Eotrichocolea polyacantha</i> (Hook.f. et Taylor) R.M.Schust.....	256
*** <i>Eremonotus myriocarpus</i> (Carrington) Lindb. et Kaal. ex Pearson.....	118
* <i>Eulejeunea setulosa</i> Steph.	508
* <i>Eulejeunea subpililoba</i> Steph.....	508
* <i>Euosmolejeunea parvistipula</i> (Lindenb. et Gottsche) Steph.....	508

* <i>Euosmolejeunea tenerrima</i> (Nees) Steph.	508
*** <i>Evansianthus georgiensis</i> (Gottsche) R.M.Schust. et J.J.Engel.....	196
*** <i>Exormotheca bischlerae</i> Furuki et Higuchi.....	488
*** <i>Exormotheca bulbigena</i> Bornefeld, O.H.Volk et R.Wolf.....	488
*** <i>Exormotheca ceylonensis</i> Meijer	488
* <i>Exormotheca gollanii</i> Steph.	488
*** <i>Exormotheca holstii</i> Steph.	488
*** <i>Exormotheca pustulosa</i> Mitt.	488
*** <i>Exormotheca tuberifera</i> Kashyap	488
*** <i>Exormotheca welwitschii</i> Steph.....	488
* <i>Fimbraria gigantea</i> Steph.	508
* <i>Fimbraria incrassata</i> Steph.	508
* <i>Fimbraria kamerunensis</i> Steph.....	508
* <i>Fimbraria pirottae</i> Gola.....	508
*** <i>Folioceros amboinensis</i> (Schiffn.) Piippo	31
** <i>Folioceros apiathynus</i> (Steph.) Hässel	31
** <i>Folioceros argillaceus</i> (Steph.) J.C.Villarreal et Cargill	31
*** <i>Folioceros assamicus</i> D.C.Bharadwaj	31
** <i>Folioceros dilatatus</i> (Steph.) J.C.Villarreal et Cargill.....	31
*** <i>Folioceros dixitianus</i> (Mahab.) D.C.Bharadwaj	31
*** <i>Folioceros fuciformis</i> (Mont.) D.C.Bharadwaj	31
*** <i>Folioceros glandulosus</i> (Lehm. et Lindenb.) D.C.Bharadwaj	31
*** <i>Folioceros incurvus</i> (Steph.) D.C.Bharadwaj.....	31
*** <i>Folioceros indicus</i> D.C.Bharadwaj.....	31
*** <i>Folioceros kashyapii</i> S.C.Srivast. et A.K.Asthana.....	31
*** <i>Folioceros mangaloreus</i> (Steph.) D.C.Bharadwaj.....	31
*** <i>Folioceros paliformis</i> D.K.Singh	31
*** <i>Folioceros physocladus</i> D.C.Bharadwaj.....	31
*** <i>Folioceros pinnilobus</i> (Steph.) D.C.Bharadwaj.....	31
*** <i>Folioceros satpurensis</i> D.C.Bharadwaj et K.P.Srivast.	31
*** <i>Folioceros udarii</i> A.K.Asthana et S.C.Srivast.	32
*** <i>Folioceros verruculosus</i> (J.Haseg.) R.L.Zhu et M.J.Lai	32
*** <i>Fossombronina alaskana</i> Steere et Inoue.....	463
*** <i>Fossombronina alata</i> G.A.M.Scott et D.C.Pike.....	463
*** <i>Fossombronina altilamellosa</i> G.A.M.Scott et D.C.Pike.....	463
*** <i>Fossombronina angulifolia</i> Perold.....	463
*** <i>Fossombronina angulosa</i> (Dicks.) Raddi	463
** <i>Fossombronina areolata</i> G.A.M.Scott et D.C.Pike	464
** <i>Fossombronina auricolor</i> G.A.M.Scott et D.C.Pike	464
*** <i>Fossombronina australis</i> Mitt.	464
*** <i>Fossombronina caespitiformis</i> (Raddi) De Not. ex Rabenh.	464
*** <i>Fossombronina caespitiformis</i> subsp. <i>multispira</i> (Schiffn.) J.R.Bray et Cargill	464
*** <i>Fossombronina caledonica</i> Steph.....	464
*** <i>Fossombronina cederbergensis</i> Perold.....	464
*** <i>Fossombronina cerebriformis</i> G.A.M.Scott et D.C.Pike	464
*** <i>Fossombronina crassifolia</i> Spruce	464
*** <i>Fossombronina crispa</i> Nees	464
* <i>Fossombronina crispula</i> (Brot.) R.M.Schust.....	464
*** <i>Fossombronina cristula</i> Austin	464
*** <i>Fossombronina cultriformis</i> G.A.M.Scott et D.C.Pike	464
*** <i>Fossombronina densa</i> G.A.M.Scott et D.C.Pike	464
*** <i>Fossombronina densilamellata</i> S.W.Arnell	464

***	<i>Fossombronina echinata</i> Macvicar	464
***	<i>Fossombronina elsieae</i> Perold.....	464
***	<i>Fossombronina fernandeziensis</i> Steph.....	464
***	<i>Fossombronina fimbriata</i> Paton.....	464
***	<i>Fossombronina fleischeri</i> Osterwald ex Loeske	464
***	<i>Fossombronina foveolata</i> Lindb.	464
**	<i>Fossombronina fuhreri</i> G.A.M.Scott et D.C.Pike	464
***	<i>Fossombronina gemmifera</i> Perold	465
***	<i>Fossombronina glenii</i> Perold.....	465
**	<i>Fossombronina grandis</i> Steph.	465
*	<i>Fossombronina gregaria</i> Colenso	465
*	<i>Fossombronina grossepapillata</i> Steph.....	465
***	<i>Fossombronina hamatohirta</i> Steph.....	465
**	<i>Fossombronina hewsoniae</i> G.A.M.Scott et D.C.Pike	465
***	<i>Fossombronina himalayensis</i> Kashyap	465
***	<i>Fossombronina hyalorbiza</i> Perold	465
***	<i>Fossombronina incurva</i> Lindb.	465
***	<i>Fossombronina indica</i> Steph.....	465
*	<i>Fossombronina integerrima</i> Steph.....	465
*	<i>Fossombronina integrifolia</i> Steph.....	465
***	<i>Fossombronina intestinalis</i> Taylor.....	465
***	<i>Fossombronina japonica</i> Schiffn.	465
**	<i>Fossombronina laciniata</i> G.A.M.Scott et D.C.Pike	465
***	<i>Fossombronina lamellata</i> Steph.	465
***	<i>Fossombronina leucoxantha</i> (Lehm.) Lehm. et Lindenb.....	465
***	<i>Fossombronina longiseta</i> (Austin) Austin	465
***	<i>Fossombronina lophoclada</i> Spruce.....	465
**	<i>Fossombronina lophoscypha</i> Hässel.....	465
***	<i>Fossombronina luetzelburgiana</i> K.I.Goebel.....	465
***	<i>Fossombronina macrocalyx</i> Steph.....	465
*	<i>Fossombronina macrophylla</i> Colenso	466
**	<i>Fossombronina magnaspora</i> G.A.M.Scott et D.C.Pike.....	466
***	<i>Fossombronina marindae</i> Perold.....	466
**	<i>Fossombronina maritima</i> (Paton) Paton	466
***	<i>Fossombronina marshii</i> J.R.Bray et Stotler	466
**	<i>Fossombronina microlamellata</i> G.A.M.Scott et D.C.Pike	466
***	<i>Fossombronina mittenii</i> Tind.	466
***	<i>Fossombronina montaguensis</i> S.W.Arnell	466
***	<i>Fossombronina monticola</i> Perold	466
***	<i>Fossombronina mylioides</i> Inoue	466
*	<i>Fossombronina nigricaulis</i> Colenso.....	466
**	<i>Fossombronina nyikaensis</i> Perold	466
***	<i>Fossombronina papillata</i> Steph.	466
***	<i>Fossombronina paranapanemae</i> Schiffn.	466
***	<i>Fossombronina peruviana</i> Gottsche et Hampe.....	466
***	<i>Fossombronina porphyrorhiza</i> (Nees) Prosk.	466
**	<i>Fossombronina pulvinata</i> Steph.....	466
***	<i>Fossombronina punctata</i> G.A.M.Scott et D.C.Pike	466
***	<i>Fossombronina purpureospora</i> G.A.M.Scott et D.C.Pike	466
***	<i>Fossombronina pusilla</i> (L.) Nees.....	466
***	<i>Fossombronina renateae</i> Perold.....	466
***	<i>Fossombronina reticulata</i> Steph.....	466

* <i>Fossombronina rosulata</i> Colenso.....	467
** <i>Fossombronina rudis</i> G.A.M.Scott et D.C.Pike.....	467
*** <i>Fossombronina ruminata</i> Cargill.....	467
** <i>Fossombronina rupestris</i> G.A.M.Scott et D.C.Pike.....	467
*** <i>Fossombronina rwandaensis</i> Perold.....	467
*** <i>Fossombronina scrobiculata</i> G.A.M.Scott et D.C.Pike.....	467
*** <i>Fossombronina spinifolia</i> Steph.....	467
* <i>Fossombronina spinosa</i> Perold.....	467
*** <i>Fossombronina stephanii</i> Schiffn. ex Steph.....	467
*** <i>Fossombronina straussiana</i> Perold.....	467
* <i>Fossombronina subsaccata</i> Steph.....	467
*** <i>Fossombronina swaziensis</i> Perold.....	467
** <i>Fossombronina tessellata</i> G.A.M.Scott et D.C.Pike.....	467
*** <i>Fossombronina texana</i> Lindb.....	467
*** <i>Fossombronina truncata</i> G.A.M.Scott et D.C.Pike.....	467
*** <i>Fossombronina tumida</i> Mitt.....	467
** <i>Fossombronina valparaisiana</i> Hässel.....	467
** <i>Fossombronina vermiculata</i> G.A.M.Scott et D.C.Pike.....	467
*** <i>Fossombronina watsii</i> Steph.....	467
*** <i>Fossombronina wondraczekii</i> (Corda) Dumort. ex Lindb.....	467
*** <i>Fossombronina wrightii</i> Austin.....	467
** <i>Fossombronina zuurbergensis</i> Perold.....	467
*** <i>Frullania acicularis</i> Hentschel et von Konrat.....	292
*** <i>Frullania aculeata</i> Taylor.....	287
* <i>Frullania affinis</i> Nees et Mont.....	293
** <i>Frullania akiyamae</i> S.Hatt.....	267
*** <i>Frullania albertii</i> Steph.....	266
** <i>Frullania allanii</i> E.A.Hodgs.....	281
* <i>Frullania allionii</i> Steph.....	293
* <i>Frullania alpina</i> Steph.....	293
** <i>Frullania alstonii</i> Verd.....	292
** <i>Frullania alternans</i> Nees.....	293
* <i>Frullania amamiensis</i> Kamim.....	272
** <i>Frullania ambronni</i> Steph.....	287
** <i>Frullania ampliviana</i> Steph.....	272
*** <i>Frullania ampullifera</i> J.B.Jack et Steph.....	272
*** <i>Frullania anderssonii</i> Ångstr.....	272
** <i>Frullania angulata</i> Mitt.....	289
** <i>Frullania angulata</i> var. <i>laciniata</i> Vanden Berghen.....	289
** <i>Frullania angustistipa</i> Steph.....	272
*** <i>Frullania anomala</i> E.A.Hodgs.....	282
** <i>Frullania antaresensis</i> S.Hatt.....	266
** <i>Frullania aoshimensis</i> Horik.....	292
* <i>Frullania apertilobula</i> Gerola.....	293
** <i>Frullania apicalis</i> Mitt.....	289
** <i>Frullania apicalis</i> var. <i>camerunensis</i> Vanden Berghen.....	289
** <i>Frullania apiculata</i> (Reinw., Blume et Nees) Nees.....	267
** <i>Frullania apiculata</i> var. <i>goebelii</i> Schiffn.....	267
** <i>Frullania aposinensis</i> S.Hatt. et P.J.Lin.....	273
*** <i>Frullania appalachiana</i> R.M.Schust.....	284
*** <i>Frullania appendiculata</i> Steph.....	292
** <i>Frullania appendistipula</i> S.Hatt.....	273

**	<i>Frullania appendistipula</i> var. <i>spinifera</i> S.Hatt.	273
**	<i>Frullania armata</i> Herzog et L.Clark	293
*	<i>Frullania armatifolia</i> Verd.	267
***	<i>Frullania armitiana</i> Steph.	267
**	<i>Frullania armitiana</i> var. <i>inflexula</i> S.Hatt.	268
***	<i>Frullania arsenii</i> Steph.	266
***	<i>Frullania asagrayana</i> Mont.	292
*	<i>Frullania astrolabea</i> Steph.	285
**	<i>Frullania aterrima</i> (Hook.f. et Taylor) Gottsche, Lindenb. et Nees	268
***	<i>Frullania atrata</i> (Sw.) Nees ex Mont.	287
***	<i>Frullania attenuata</i> Steph.	268
**	<i>Frullania auriculata</i> S.Hatt.	273
***	<i>Frullania azorica</i> Sim-Sim, Sérgio, Mues et Kraut.	284
*	<i>Frullania baileyana</i> Steph.	282
***	<i>Frullania baladina</i> Gottsche.	282
***	<i>Frullania baumannii</i> S.Hatt.	271
***	<i>Frullania beauverdii</i> Steph.	265
***	<i>Frullania bella</i> Steph.	268
*	<i>Frullania belmorensis</i> Steph.	282
**	<i>Frullania benjaminiana</i> Inoue	273
**	<i>Frullania bergmanii</i> S.Hatt.	273
***	<i>Frullania berthoumieuvi</i> Steph.	273
***	<i>Frullania beyrichiana</i> (Lehm. et Lindenb.) Lehm. et Lindenb.	287
**	<i>Frullania bhutanensis</i> S.Hatt.	273
***	<i>Frullania bicornistipula</i> Spruce	287
**	<i>Frullania blastopetala</i> S.Hatt.	273
***	<i>Frullania blepharozia</i> Spruce	265
***	<i>Frullania bogotensis</i> Steph.	265
***	<i>Frullania bolanderi</i> Austin.	294
**	<i>Frullania bonariensis</i> M.E.Reiner	266
***	<i>Frullania bonincola</i> S.Hatt.	273
*	<i>Frullania borbonica</i> Lindenb.	289
***	<i>Frullania boveana</i> C.Massal.	294
*	<i>Frullania brachycarpa</i> Spruce.	265
***	<i>Frullania brasiliensis</i> Raddi.	287
**	<i>Frullania brasiliensis</i> var. <i>elegantula</i> Spruce	287
*	<i>Frullania breuteliana</i> Gottsche	287
*	<i>Frullania brevicealycina</i> Steph.	273
**	<i>Frullania brittoniae</i> A.Evans	273
*	<i>Frullania brotheri</i> Steph.	286
*	<i>Frullania brunea</i> (Spreng.) Drège.	272
***	<i>Frullania bullata</i> Steph.	273
*	<i>Frullania caespitans</i> Beauverd	294
***	<i>Frullania caffraria</i> Steph.	273
***	<i>Frullania calcarata</i> Ångstr.	273
***	<i>Frullania calcarifera</i> Steph.	292
*	<i>Frullania caldensis</i> Ångstr.	287
***	<i>Frullania californica</i> (M.Howe) A.Evans	292
***	<i>Frullania campanulata</i> Sande Lac.	282
**	<i>Frullania campanulata</i> var. <i>caduca</i> Verd.	282
**	<i>Frullania campanulata</i> var. <i>malesiaca</i> (Verd.) S.Hatt.	282
*	<i>Frullania canaliculata</i> Gottsche.	294

***	<i>Frullania capensis</i> Gottsche	289
**	<i>Frullania capillaris</i> Steph.....	294
**	<i>Frullania carrii</i> Kamim. et S.Hatt.	273
***	<i>Frullania catalinae</i> A.Evans	284
*	<i>Frullania cataractarum</i> Steph.	282
***	<i>Frullania caulisequa</i> (Nees) Mont.....	272
*	<i>Frullania cavallii</i> Gola.....	294
**	<i>Frullania changii</i> S.Hatt. et C.Gao.....	268
**	<i>Frullania chenii</i> S.Hatt. et P.J.Lin	273
***	<i>Frullania chevalieri</i> (R.M.Schust.) R.M.Schust.	291
*	<i>Frullania chiapasana</i> Steph.....	294
*	<i>Frullania chilcootiensis</i> Steph.	294
**	<i>Frullania chilensis</i> Steph.	273
*	<i>Frullania chiovendae</i> Gola	294
***	<i>Frullania chodatii</i> Beauverd.....	273
**	<i>Frullania ciliata</i> Lindenb. et Gottsche.....	294
**	<i>Frullania cinchonae</i> Gottsche	294
***	<i>Frullania clavata</i> (Hook.f. et Taylor) Gottsche, Lindenb. et Nees	281
*	<i>Frullania claviloba</i> Steph.	268
***	<i>Frullania clemensiana</i> Verd.	292
***	<i>Frullania cobrensis</i> Gottsche	273
***	<i>Frullania colliculosa</i> von Konrat, Braggins, Hentschel et Heinrichs	268
*	<i>Frullania compacta</i> Gottsche	287
*	<i>Frullania complicata</i> Steph.	294
***	<i>Frullania confertiloba</i> Steph.....	265
***	<i>Frullania congesta</i> Gottsche, Lindenb. et Nees.....	271
**	<i>Frullania consociata</i> Steph.	273
*	<i>Frullania contracta</i> Steph.	273
***	<i>Frullania convoluta</i> Lindenb. et Hampe	289
*	<i>Frullania convoluta</i> var. <i>ampliata</i> Herzog	289
*	<i>Frullania cordaeana</i> Lindenb.	294
***	<i>Frullania cordistipula</i> (Reinw., Blume et Nees) Nees	268
**	<i>Frullania cordistipula</i> var. <i>dentistipula</i> S.Hatt.	268
*	<i>Frullania cordistipula</i> var. <i>mutica</i> (Gottsche, Lindenb. et Nees) Schiffn.....	268
*	<i>Frullania cornuta</i> Steph.....	273
***	<i>Frullania crassitexta</i> Steph.	273
*	<i>Frullania crawfordii</i> Steph.....	282
*	<i>Frullania crenatiloba</i> Steph.....	268
*	<i>Frullania crenulifolia</i> J.B.Jack et Steph.	287
**	<i>Frullania crispiloba</i> Steph.....	288
***	<i>Frullania crispilicata</i> Yuzawa et S.Hatt.	273
**	<i>Frullania cristata</i> S.Hatt.	274
***	<i>Frullania cuencensis</i> Taylor	266
**	<i>Frullania cuneatistipula</i> Steph.	294
*	<i>Frullania cuneiloba</i> Nees	274
***	<i>Frullania curvilobula</i> Schäf.-Verw., D.F.Peralta et S.M.Siqueira	267
**	<i>Frullania curviramea</i> Steph.	288
***	<i>Frullania curvistipula</i> Steph.....	274
**	<i>Frullania curvistipula</i> var. <i>falcatidentata</i> S.Hatt.	274
**	<i>Frullania curvistipula</i> var. <i>lamii</i> Verd.	274
**	<i>Frullania cuspidifolia</i> Steph.	274
*	<i>Frullania cuspiloba</i> Steph.	294

**	<i>Frullania cyparioides</i> (Schwägr.) Nees.....	274
***	<i>Frullania darwinii</i> Gradst. et Uribe.....	289
***	<i>Frullania davurica</i> Hampe ex Gottsche, Lindenb. et Nees.....	274
**	<i>Frullania debilis</i> Steph. ex S.Hatt.	274
***	<i>Frullania decidua</i> Spruce.....	265
***	<i>Frullania deflexa</i> Mitt.....	285
*	<i>Frullania degelii</i> S.W.Arnell.....	268
***	<i>Frullania densiloba</i> Steph. ex A.Evans.....	292
***	<i>Frullania dentata</i> S.Hatt.....	282
**	<i>Frullania dentata</i> var. <i>secernens</i> S.Hatt.....	282
**	<i>Frullania dentifera</i> S.Hatt. et Streimann.....	268
***	<i>Frullania dentiloba</i> S.Hatt.....	268
***	<i>Frullania deplanata</i> Mitt.....	285
**	<i>Frullania deppii</i> Lehm.....	274
***	<i>Frullania depressa</i> Mitt.....	266
***	<i>Frullania dilatata</i> (L.) Dumort.....	284
**	<i>Frullania dilatata</i> subsp. <i>asiatica</i> S.Hatt.....	284
**	<i>Frullania diptera</i> (Lehm.) Drège.....	274
*	<i>Frullania dispar</i> Nees.....	294
***	<i>Frullania diversitexta</i> Steph.....	272
**	<i>Frullania donnellii</i> Austin.....	289
***	<i>Frullania dulimensis</i> Uribe.....	289
**	<i>Frullania durifolia</i> Steph.....	268
***	<i>Frullania dusenii</i> Steph.....	266
***	<i>Frullania duthiana</i> Steph.....	274
**	<i>Frullania duthiana</i> var. <i>appendiculata</i> S.Hatt.....	274
**	<i>Frullania duthiana</i> var. <i>laevis</i> S.Hatt.....	274
**	<i>Frullania duthiana</i> var. <i>szechuanensis</i> S.Hatt. et C.Gao.....	274
***	<i>Frullania eboracensis</i> Lehm.....	284
**	<i>Frullania echinantha</i> S.Hatt.....	274
**	<i>Frullania echinatella</i> S.Hatt.....	274
***	<i>Frullania ecklonii</i> (Spreng.) Gottsche, Lindenb. et Nees.....	265
*	<i>Frullania ecklonii</i> var. <i>robustior</i> (Gottsche, Lindenb. et Nees) Sim.....	265
*	<i>Frullania ecklonii</i> var. <i>rufescens</i> Gottsche, Lindenb. et Nees.....	265
*	<i>Frullania ecklonii</i> var. <i>tenerior</i> (Gottsche, Lindenb. et Nees) Sim.....	265
***	<i>Frullania ecuadorensis</i> Steph.....	288
*	<i>Frullania elegans</i> Lehm.....	274
***	<i>Frullania elephantum</i> S.Hatt.....	274
**	<i>Frullania epiphylla</i> S.Hatt.....	274
*	<i>Frullania epiphylla</i> subsp. <i>fijiensis</i> S.Hatt.....	274
**	<i>Frullania epicata</i> Steph.....	289
***	<i>Frullania ericoides</i> (Nees) Mont.....	284
*	<i>Frullania ericoides</i> var. <i>laxa</i> (Gottsche, Lindenb. et Nees) Schiffn.....	284
**	<i>Frullania ericoides</i> var. <i>verrucosa</i> (Kamim.) Hentschel et von Konrat.....	284
*	<i>Frullania ericoides</i> var. <i>minor</i> Kamim.....	274
**	<i>Frullania erostrata</i> S.Hatt.....	274
***	<i>Frullania errans</i> Verd.....	282
**	<i>Frullania errans</i> var. <i>angulistipula</i> S.Hatt.....	283
*	<i>Frullania esenbeckiana</i> Beauverd.....	274
**	<i>Frullania evelynae</i> S.Hatt. et Thaihong.....	274
*	<i>Frullania evelynae</i> var. <i>devendrae</i> Sushil K.Singh et Barbhuiya.....	274
*	<i>Frullania evelynae</i> var. <i>srivastavae</i> Sushil K.Singh et Barbhuiya.....	274

**	<i>Frullania evoluta</i> Mitt.	287
**	<i>Frullania exilis</i> Taylor	268
***	<i>Frullania eymae</i> S.Hatt.	274
**	<i>Frullania eymae</i> var. <i>crispidentata</i> S.Hatt. et Streimann	274
***	<i>Frullania falciloba</i> Lehm.	274
*	<i>Frullania fallax</i> Gottsche	285
**	<i>Frullania falsicornuta</i> S.Hatt.	274
**	<i>Frullania fauriana</i> Steph.	274
**	<i>Frullania fengyangshanensis</i> R.L.Zhu et M.L.So.....	275
**	<i>Frullania ferdinandi-muelleri</i> Steph.	275
***	<i>Frullania fertilis</i> De Not.	290
*	<i>Frullania flammea</i> Taylor	264
*	<i>Frullania flexuosa</i> S.Hatt.	275
**	<i>Frullania formosa</i> Spruce	288
***	<i>Frullania fragilifolia</i> (Taylor) Gottsche, Lindenb. et Nees	284
***	<i>Frullania franciscana</i> M.Howe	292
**	<i>Frullania fuegiana</i> Steph.	284
***	<i>Frullania fugax</i> (Hook.f. et Taylor) Gottsche, Lindenb. et Nees.....	283
**	<i>Frullania fulfordiae</i> S.Hatt.	283
**	<i>Frullania fuscovirens</i> Steph.	275
**	<i>Frullania fuscovirens</i> var. <i>gemmaipara</i> (R.M.Schust. et S.Hatt.) S.Hatt. et P.J.Lin.....	275
**	<i>Frullania gabonensis</i> Vanden Berghen	268
**	<i>Frullania gaoligongensis</i> X.L.Bai et C.Gao.....	275
***	<i>Frullania gaudichaudii</i> (Nees et Mont.) Nees et Mont.	291
**	<i>Frullania gaudichaudii</i> var. <i>ceylanica</i> (Nees) S.Hatt.	292
**	<i>Frullania gemmulosa</i> S.Hatt. et Thaithong.....	275
***	<i>Frullania gibbosa</i> Nees	265
***	<i>Frullania gigantea</i> Steph.	275
**	<i>Frullania giraldiana</i> C.Massal.	275
**	<i>Frullania giraldiana</i> var. <i>handelii</i> (Verd.) S.Hatt.	275
**	<i>Frullania globosa</i> S.Hatt. et Streimann	275
***	<i>Frullania glomerata</i> (Lehm. et Lindenb.) Nees et Mont.	283
**	<i>Frullania gracilicaulis</i> S.Hatt.	267
***	<i>Frullania gracilis</i> (Reinw., Blume et Nees) Nees	268
*	<i>Frullania gracilis</i> var. <i>brevior</i> (Gottsche, Lindenb. et Nees) Schiffn.....	269
**	<i>Frullania gracilis</i> var. <i>vittata</i> S.Hatt.	269
**	<i>Frullania gracilis</i> subsp. <i>zennoskei</i> S.Hatt. et Thaithong.....	269
***	<i>Frullania gradsteinii</i> Yuzawa, Mues et S.Hatt.	266
*	<i>Frullania granatensis</i> Gottsche.....	288
***	<i>Frullania grandifolia</i> Steph.	289
**	<i>Frullania grandilobula</i> S.Hatt. et Piippo.....	275
***	<i>Frullania grandistipula</i> Lindenb.	275
***	<i>Frullania griffithsiana</i> Gottsche	288
**	<i>Frullania grossiclava</i> Steph.	271
***	<i>Frullania grossifolia</i> Steph.	272
*	<i>Frullania guadalupensis</i> Gottsche.....	288
*	<i>Frullania gualaquizana</i> Steph.	288
*	<i>Frullania guatemalensis</i> Steph.	294
***	<i>Frullania haematocysta</i> Spruce	266
**	<i>Frullania hainanensis</i> S.Hatt. et P.J.Lin.....	275
**	<i>Frullania hamata</i> Steph.	286
**	<i>Frullania hamaticoma</i> Steph.	281

**	<i>Frullania hamatiloba</i> Steph.	275
**	<i>Frullania hamiflora</i> Herzog et L.Clark	288
**	<i>Frullania handelii</i> Verd.	275
**	<i>Frullania handel-mazzettii</i> S.Hatt.	275
***	<i>Frullania hasskarliana</i> Lindenb.	269
**	<i>Frullania hasskarliana</i> var. <i>gracilis</i> S.Hatt.	269
**	<i>Frullania hasskarliana</i> var. <i>parvidentata</i> S.Hatt.	269
**	<i>Frullania hattoriana</i> J.D.Godfrey et G.Godfrey	284
**	<i>Frullania hattoriantha</i> Udar et V.Nath.	275
***	<i>Frullania hattorii</i> von Konrat et Braggins	269
*	<i>Frullania hebridensis</i> Steph.	275
***	<i>Frullania hedrantha</i> S.Hatt. et Kamim.	292
***	<i>Frullania heteromorpha</i> Schiffn.	286
**	<i>Frullania hicksiae</i> S.Hatt.	275
**	<i>Frullania higuchii</i> Yuzawa, Koike et S.Hatt.	275
**	<i>Frullania hirosii</i> S.Hatt.	275
*	<i>Frullania hirtiflora</i> Spruce	275
***	<i>Frullania hodgsoniae</i> von Konrat, Braggins, Hentschel et Heinrichs	269
***	<i>Frullania holostipula</i> S.Hatt. et D.G.Griffin	265
**	<i>Frullania hottana</i> S.Hatt.	269
***	<i>Frullania howeana</i> Steph.	276
**	<i>Frullania huerlimannii</i> S.Hatt.	286
*	<i>Frullania huerlimannii</i> var. <i>dioica</i> S.Hatt.	286
**	<i>Frullania humbertii</i> Vanden Berghen	267
*	<i>Frullania humilis</i> Spruce	276
***	<i>Frullania hypoleuca</i> Nees	272
**	<i>Frullania hypoleucula</i> S.Hatt.	267
**	<i>Frullania ignatovii</i> Sofronova, Mamontov et Potemkin	276
**	<i>Frullania imerinensis</i> Steph.	289
**	<i>Frullania immersa</i> Steph.	292
**	<i>Frullania incisoduthiana</i> S.Hatt.	276
*	<i>Frullania incisoduthiana</i> var. <i>parva</i> S.Hatt.	276
*	<i>Frullania incisostipula</i> Steph.	276
***	<i>Frullania inconstans</i> Verd.	269
**	<i>Frullania inconstans</i> var. <i>grossedentata</i> Kamim. et S.Hatt.	269
***	<i>Frullania incumbens</i> Mitt.	283
**	<i>Frullania incurva</i> S.Hatt.	267
***	<i>Frullania inflata</i> Gottsche	294
**	<i>Frullania inflata</i> var. <i>communis</i> R.M.Schust.	294
**	<i>Frullania inflata</i> var. <i>dioica</i> S.Hatt. et Thaithong	294
**	<i>Frullania inflata</i> var. <i>mayebarae</i> (S.Hatt.) K.Yamada	294
***	<i>Frullania inflexa</i> Mitt.	283
**	<i>Frullania inflexiloba</i> S.Hatt.	276
**	<i>Frullania inouei</i> S.Hatt.	276
***	<i>Frullania integristipula</i> (Nees) Nees	285
**	<i>Frullania integristipula</i> var. <i>emarginata</i> Verd.	285
***	<i>Frullania intermedia</i> (Reinw., Blume et Nees) Nees	286
**	<i>Frullania intermedia</i> subsp. <i>morokensis</i> (Steph.) S.Hatt.	286
*	<i>Frullania intermedia</i> var. <i>non-apiculata</i> S.Hatt.	286
***	<i>Frullania intumescens</i> (Lehm. et Lindenb.) Lehm. et Lindenb.	288
**	<i>Frullania involvens</i> S.Hatt. et Kamim.	286
**	<i>Frullania iriomotensis</i> S.Hatt.	286

***	<i>Frullania irregularis</i> S.Hatt. et Piippo.....	276
**	<i>Frullania iwatsukii</i> S.Hatt.	293
***	<i>Frullania jackii</i> Gottsche.....	276
**	<i>Frullania jacobsii</i> S.Hatt.....	276
*	<i>Frullania jacquinotii</i> Gottsche.....	276
***	<i>Frullania jelskii</i> Loitl.....	266
***	<i>Frullania johnsonii</i> Steph.....	269
**	<i>Frullania jovetiana</i> von Konrat et Hentschel	276
***	<i>Frullania jungbuhmiana</i> Gottsche.....	291
**	<i>Frullania jungbuhmiana</i> var. <i>bisexualis</i> S.Hatt.....	291
**	<i>Frullania jungbuhmiana</i> var. <i>tenella</i> (Sande Lac.) Grolle et S.Hatt.	291
**	<i>Frullania kagoshimensis</i> Steph.....	276
**	<i>Frullania kagoshimensis</i> subsp. <i>hunanensis</i> (S.Hatt.) S.Hatt. et P.J.Lin.....	276
**	<i>Frullania kalimantanensis</i> S.Hatt.....	276
**	<i>Frullania kashyapii</i> Verd.	276
**	<i>Frullania kitagawana</i> S.Hatt.	276
**	<i>Frullania klotzschii</i> Nees.....	267
***	<i>Frullania knightbridgei</i> von Konrat et de Lange.....	290
**	<i>Frullania koponenii</i> S.Hatt.	284
***	<i>Frullania kunzei</i> (Lehm. et Lindenb.) Lehm. et Lindenb.....	289
**	<i>Frullania kunzei</i> var. <i>maritima</i> R.M.Schust.....	290
*	<i>Frullania laetevirens</i> Hampe ex Gottsche, Lindenb. et Nees	294
**	<i>Frullania laeviperiantha</i> X.L.Bai et C.Gao.....	276
*	<i>Frullania lancistyla</i> Steph.	276
*	<i>Frullania larjiana</i> Sushil K.Singh et D.K.Singh	294
*	<i>Frullania larjiana</i> var. <i>didyhatii</i> S.N.Srivast. et M.Rai	294
*	<i>Frullania laticaulis</i> Spruce	288
*	<i>Frullania latiflora</i> Spruce.....	276
**	<i>Frullania latogaleata</i> Herzog.....	276
***	<i>Frullania laxiflora</i> Spruce.....	266
*	<i>Frullania laxiflora</i> var. <i>crossii</i> Spruce.....	276
*	<i>Frullania leana</i> Austin.....	294
**	<i>Frullania leeuwenii</i> Verd.	286
**	<i>Frullania lepida</i> S.Hatt. et Piippo.....	276
**	<i>Frullania letestui</i> Vanden Berghen.....	267
*	<i>Frullania levieri</i> Steph.	276
***	<i>Frullania lindenbergii</i> Lehm.	272
*	<i>Frullania lindenbergii</i> var. <i>fusca</i> Gottsche, Lindenb. et Nees.....	272
***	<i>Frullania lindmanii</i> Steph.	264
**	<i>Frullania linii</i> S.Hatt.	276
***	<i>Frullania lobatobastata</i> Steph.	288
***	<i>Frullania lobulata</i> (Hook.) Hook. et Nees.....	290
**	<i>Frullania longistipula</i> Steph.	290
*	<i>Frullania longistipula</i> var. <i>apiculata</i> Demaret et Vanden Berghen	288
*	<i>Frullania longistyla</i> Yuzawa et S.Hatt.	276
**	<i>Frullania loricata</i> Pearson.....	272
*	<i>Frullania loricata</i> var. <i>laxa</i> Pearson.....	272
*	<i>Frullania ludoviciae</i> Steph.	277
**	<i>Frullania lushanensis</i> S.Hatt. et P.J.Lin.....	277
**	<i>Frullania macgregorii</i> Steph.	269
**	<i>Frullania macgregorii</i> var. <i>rostellula</i> (S.Hatt.) S.Hatt.....	269
***	<i>Frullania macrocephala</i> (Lehm. et Lindenb.) Lehm. et Lindenb.....	288

**	<i>Frullania macrophylla</i> S.Hatt.....	285
*	<i>Frullania macularis</i> Taylor	277
*	<i>Frullania madagascariensis</i> Gottsche	294
**	<i>Frullania madens</i> Steph.	269
**	<i>Frullania madothecoides</i> Spruce	288
***	<i>Frullania magellanica</i> F.Weber et Nees	290
**	<i>Frullania magellanica</i> subsp. <i>tristaniana</i> (S.W.Arnell) Váňa et J.J.Engel	290
**	<i>Frullania mammillosa</i> S.Hatt.....	286
*	<i>Frullania matafaoica</i> H.A.Mill.	290
*	<i>Frullania mauritiana</i> Austin.....	294
**	<i>Frullania maymyoensis</i> Svihla.....	277
**	<i>Frullania mcveanii</i> S.Hatt.	291
**	<i>Frullania media</i> (E.A.Hodgs.) S.Hatt.	283
***	<i>Frullania megalostipa</i> Spruce	265
**	<i>Frullania mebrana</i> S.Hatt.	269
***	<i>Frullania meijeri</i> S.Hatt.	287
**	<i>Frullania meridana</i> Steph.....	288
***	<i>Frullania meyeniana</i> Lindenb.....	290
**	<i>Frullania meyeniana</i> var. <i>dioica</i> S.Hatt.	290
**	<i>Frullania microauriculata</i> Verd.....	277
**	<i>Frullania microauriculata</i> var. <i>rotundior</i> Verd.....	277
***	<i>Frullania microcaulis</i> Gola.....	291
*	<i>Frullania microcephala</i> Gottsche.....	288
***	<i>Frullania microphylla</i> (Gottsche) Pearson	293
**	<i>Frullania microrhyncha</i> L.Clark et Svihla.....	277
***	<i>Frullania microscopica</i> Pearson	291
***	<i>Frullania mirabilis</i> J.B.Jack et Steph.....	294
*	<i>Frullania miradorensis</i> Lindenb. et Gottsche	267
**	<i>Frullania mizoramensis</i> Sushil K.Singh et Barbhuiya	277
**	<i>Frullania mizutanii</i> Kamim. et S.Hatt.	283
***	<i>Frullania moniliata</i> (Reinw., Blume et Nees) Mont.	293
***	<i>Frullania monocera</i> (Hook.f. et Taylor) Gottsche, Lindenb. et Nees.....	281
**	<i>Frullania monocera</i> var. <i>acutiloba</i> (Mitt.) Hentschel et von Konrat.....	282
**	<i>Frullania monocera</i> var. <i>depauperata</i> S.Hatt.....	282
**	<i>Frullania monocera</i> var. <i>schiffneri</i> (Verd.) S.Hatt.	282
***	<i>Frullania monocera</i> var. <i>subhampeana</i> (E.A.Hodgs.) Hentschel et von Konrat	282
***	<i>Frullania monocera</i> var. <i>undulata</i> (Kamim.) Hentschel et von Konrat	282
**	<i>Frullania monoica</i> Steph.....	295
***	<i>Frullania montagnei</i> Gottsche	288
*	<i>Frullania montana</i> Steph.....	277
**	<i>Frullania moritziana</i> Lindenb. et Gottsche.....	288
***	<i>Frullania morobensis</i> S.Hatt. et Streimann.....	285
**	<i>Frullania motoyana</i> Steph.....	269
*	<i>Frullania multilacera</i> Steph.	269
**	<i>Frullania multilacera</i> subsp. <i>gracilior</i> S.Hatt.	269
**	<i>Frullania multilacera</i> var. <i>lacerissima</i> S.Hatt.	269
**	<i>Frullania multilaceroides</i> S.Hatt.....	269
**	<i>Frullania multituberculata</i> Hentschel et von Konrat	277
***	<i>Frullania muscicola</i> Steph.....	284
**	<i>Frullania mutilata</i> Steph.	277
**	<i>Frullania nadeaudii</i> Steph.	277
**	<i>Frullania neocaledonica</i> J.J.Engel	291

**	<i>Frullania neosheana</i> S.Hatt.....	269
***	<i>Frullania nepalensis</i> (Spreng.) Lehm. et Lindenb.	277
***	<i>Frullania neurota</i> Taylor	266
***	<i>Frullania nicholsonii</i> E.A.Hodgs.....	277
**	<i>Frullania nigricaulis</i> (Reinw., Blume et Nees) Nees.....	277
*	<i>Frullania nigricaulis</i> var. <i>elongata</i> Verd.....	277
***	<i>Frullania nisquallensis</i> Sull.....	293
**	<i>Frullania nivimontana</i> S.Hatt.	277
***	<i>Frullania nobilis</i> Steph.	277
**	<i>Frullania nobilis</i> var. <i>cochleata</i> (Steph.) S.Hatt.	277
***	<i>Frullania nodulosa</i> (Reinw., Blume et Nees) Nees	286
**	<i>Frullania notarissii</i> Steph.....	287
**	<i>Frullania novocurvirostris</i> S.Hatt.	277
**	<i>Frullania novoguineensis</i> Schiffn.	286
**	<i>Frullania oahuensis</i> Hampe ex Gottsche, Lindenb. et Nees.....	278
***	<i>Frullania oakesiana</i> Austin	284
**	<i>Frullania oakesiana</i> subsp. <i>takayuensis</i> (Steph.) R.M.Schust.....	284
**	<i>Frullania obovata</i> S.Hatt.	278
***	<i>Frullania obscura</i> (Sw.) Mont.....	265
***	<i>Frullania obscura</i> var. <i>spiniloba</i> (Steph.) Hentschel et von Konrat	265
***	<i>Frullania obscurifolia</i> Mitt.....	283
**	<i>Frullania obtusangula</i> Hentschel et von Konrat	278
*	<i>Frullania ocanniensis</i> Steph.....	295
**	<i>Frullania ocellata</i> S.Hatt. et Kamim.	271
*	<i>Frullania odontostipa</i> Spruce.....	267
**	<i>Frullania okinawensis</i> Kamim.....	278
**	<i>Frullania onraedtii</i> Vanden Berghen	290
**	<i>Frullania orbicularis</i> Austin	278
***	<i>Frullania orientalis</i> Sande Lac.....	278
**	<i>Frullania orinocensis</i> Spruce.....	278
***	<i>Frullania ornithocephala</i> (Reinw., Blume et Nees) Nees	278
*	<i>Frullania ornithocephala</i> var. <i>major</i> (Nees) Schiffn.....	278
**	<i>Frullania ornithocephala</i> var. <i>pilosa</i> Verd.	278
**	<i>Frullania ornithocephala</i> var. <i>tuberculosa</i> S.Hatt.....	278
**	<i>Frullania osculatiana</i> De Not.	288
**	<i>Frullania osumiensis</i> (S.Hatt.) S.Hatt.....	282
**	<i>Frullania pachyderma</i> S.Hatt.	278
**	<i>Frullania pallidevirens</i> Steph.	278
*	<i>Frullania pallidula</i> S.Hatt.	282
**	<i>Frullania pancheri</i> Gottsche	292
**	<i>Frullania papillata</i> Steph.	269
**	<i>Frullania papillilobula</i> S.Hatt.....	292
**	<i>Frullania papuana</i> Verd.	290
**	<i>Frullania papulosa</i> Steph.	287
***	<i>Frullania paradoxa</i> Lehm. et Lindenb.	288
**	<i>Frullania paranensis</i> Steph.....	264
***	<i>Frullania parhamii</i> (R.M.Schust.) R.M.Schust. ex von Konrat, L.Söderstr. et A.Hagborg.....	291
**	<i>Frullania pariharii</i> S.Hatt. et Thaitong	278
*	<i>Frullania parvifolia</i> Steph.....	278
***	<i>Frullania parvistipula</i> Steph.	285
***	<i>Frullania patagonica</i> Steph.	283
***	<i>Frullania patula</i> Mitt.	285

**	<i>Frullania pauciramea</i> Steph.	278
**	<i>Frullania pauciramea</i> var. <i>pauciramella</i> S.Hatt. et Piippo	278
**	<i>Frullania paucirameoides</i> S.Hatt. et Piippo	278
**	<i>Frullania pearceana</i> Steph.	288
**	<i>Frullania pedicellata</i> Steph.	278
**	<i>Frullania pentapleura</i> Taylor	278
***	<i>Frullania peruviana</i> Gottsche	289
***	<i>Frullania phalangiflora</i> Steph.	289
***	<i>Frullania physantha</i> Mitt.	278
***	<i>Frullania pilibracteola</i> S.Hatt.	267
***	<i>Frullania pilistipula</i> Steph.	278
**	<i>Frullania piptophylla</i> S.Hatt.	278
**	<i>Frullania piptophylla</i> var. <i>minor</i> S.Hatt.	278
**	<i>Frullania piptophylloides</i> S.Hatt.	278
***	<i>Frullania pittieri</i> Steph.	288
***	<i>Frullania plana</i> Sull.	285
***	<i>Frullania planifolia</i> Steph.	266
***	<i>Frullania platycalyx</i> Herzog	295
*	<i>Frullania plicata</i> Hentschel et von Konrat	278
***	<i>Frullania pluricarinata</i> Gottsche	266
**	<i>Frullania pocsantha</i> Thaithong et S.Hatt.	279
**	<i>Frullania polyptera</i> Taylor	283
**	<i>Frullania polyptera</i> var. <i>angustata</i> (Mitt.) S.Hatt.	283
***	<i>Frullania polysticta</i> Lindenb.	293
**	<i>Frullania ponapensis</i> S.Hatt. et Koike	272
**	<i>Frullania pran-nathii</i> M.Dey et D.K.Singh	279
**	<i>Frullania pringlei</i> Fulford et Sharp	279
**	<i>Frullania probosciphora</i> Taylor	283
**	<i>Frullania prominula</i> S.Hatt. et Streimann	279
**	<i>Frullania propaginea</i> S.Hatt. et Streimann	279
*	<i>Frullania pseudericoides</i> S.Hatt.	279
**	<i>Frullania pseudoalstonii</i> Tsudo et J.Haseg.	293
**	<i>Frullania pseudomeyeniana</i> S.Hatt.	291
**	<i>Frullania pseudomonocera</i> S.Hatt.	282
**	<i>Frullania pseudoschensiana</i> S.Hatt.	279
**	<i>Frullania pseudoschensiana</i> var. <i>darjeelingensis</i> S.Hatt.	279
***	<i>Frullania ptychantha</i> Mont.	271
**	<i>Frullania pulchella</i> Herzog	283
**	<i>Frullania pullei</i> Verd.	279
**	<i>Frullania pulogensis</i> Steph.	269
**	<i>Frullania punctata</i> Reimers	293
***	<i>Frullania purpurea</i> Steph.	269
**	<i>Frullania pusilla</i> Mitt.	279
***	<i>Frullania pycnantha</i> (Hook.f. et Taylor) Gottsche, Lindenb. et Nees	279
*	<i>Frullania pyricalycina</i> Steph.	279
**	<i>Frullania queenslandica</i> Steph.	279
**	<i>Frullania quillotensis</i> (Nees et Mont.) Nees et Mont.	295
***	<i>Frullania ramuligera</i> (Nees) Mont.	267
**	<i>Frullania recurvistipula</i> S.Hatt.	279
***	<i>Frullania reflexistipula</i> Sande Lac.	279
**	<i>Frullania reflexistipula</i> var. <i>squarrosa</i> S.Hatt. et Piippo	279
**	<i>Frullania regularis</i> Schiffn.	286

**	<i>Frullania reicheana</i> Steph.	295
**	<i>Frullania reimersii</i> Verd.	270
**	<i>Frullania remotidens</i> S.Hatt.	279
**	<i>Frullania remotiloba</i> Steph.	286
***	<i>Frullania repandistipula</i> Sande Lac.	271
**	<i>Frullania repandistipula</i> subsp. <i>queenslandica</i> S.Hatt.	271
**	<i>Frullania repandistipula</i> subsp. <i>spinibractea</i> S.Hatt.	271
*	<i>Frullania reptans</i> Mitt.	279
***	<i>Frullania retusa</i> Mitt.	279
**	<i>Frullania retusa</i> var. <i>gymnantha</i> S.Hatt. et Thaithong	279
**	<i>Frullania retusa</i> var. <i>hirsuta</i> S.Hatt. et Thaithong	279
***	<i>Frullania rhytocollea</i> Herzog	279
**	<i>Frullania rhytidantha</i> S.Hatt.	279
**	<i>Frullania rigescens</i> Spruce	288
**	<i>Frullania rigida</i> Steph.	279
***	<i>Frullania ringens</i> Spruce	265
***	<i>Frullania rio-janeirensis</i> (Raddi) Ångstr.	265
***	<i>Frullania riparia</i> Hampe	279
**	<i>Frullania rizalii</i> Piippo et S.Hatt.	280
***	<i>Frullania rostellata</i> Mitt.	280
***	<i>Frullania rostrata</i> (Hook.f. et Taylor) Gottsche, Lindenb. et Nees	291
**	<i>Frullania rubella</i> Gottsche	280
**	<i>Frullania rubella</i> var. <i>elongata</i> (Steph.) S.Hatt.	280
**	<i>Frullania rudolfiana</i> S.Hatt.	287
**	<i>Frullania rupicola</i> Steph.	280
**	<i>Frullania sababana</i> S.Hatt.	285
**	<i>Frullania sabaliana</i> R.M.Schust.	285
*	<i>Frullania sabanetica</i> Gottsche	295
**	<i>Frullania sackawana</i> Steph.	285
**	<i>Frullania saepidentata</i> S.Hatt. et Streimann	270
**	<i>Frullania saipanensis</i> S.Hatt. et Koike	280
**	<i>Frullania sandvicensis</i> Ångstr.	266
**	<i>Frullania sarawakensis</i> S.Hatt.	285
**	<i>Frullania scalaris</i> S.Hatt.	291
***	<i>Frullania scandens</i> Mont.	285
**	<i>Frullania schaefer-verwimpitii</i> Yuzawa et S.Hatt.	293
***	<i>Frullania schensiana</i> C.Massal.	280
**	<i>Frullania schiffneri</i> Verd.	270
***	<i>Frullania schimperi</i> Nees	290
**	<i>Frullania schimperi</i> var. <i>laciniata</i> Vanden Berghen	290
**	<i>Frullania schusterana</i> S.Hatt.	270
**	<i>Frullania schusteri</i> S.Hatt.	280
**	<i>Frullania scottiana</i> S.Hatt.	280
**	<i>Frullania selwyniana</i> Pearson	293
*	<i>Frullania semienana</i> Gola	295
**	<i>Frullania semivillosa</i> Lindenb. et Gottsche	285
***	<i>Frullania sergiae</i> Sim-Sim, Fontinha, Mues et Lion	293
**	<i>Frullania seriata</i> Gottsche	282
**	<i>Frullania seriatifolia</i> Steph.	270
**	<i>Frullania serrata</i> Gottsche	270
**	<i>Frullania serrata</i> var. <i>ceramensis</i> S.Hatt.	270
**	<i>Frullania serrata</i> subsp. <i>grolleana</i> (S.Hatt.) S.Hatt.	270

**	<i>Frullania serrata</i> var. <i>hamatispina</i> (S.Hatt.) S.Hatt.	270
**	<i>Frullania serrata</i> var. <i>pertenuis</i> (Nees) Schiffn.	270
**	<i>Frullania serrata</i> subsp. <i>spinistipula</i> S.Hatt.	270
**	<i>Frullania serrifolia</i> Steph.	295
**	<i>Frullania setacea</i> S.Hatt.	270
**	<i>Frullania setchellii</i> Pearson	280
***	<i>Frullania setigera</i> Steph.	288
**	<i>Frullania shanensis</i> Svihla	280
**	<i>Frullania sharpantha</i> Udar et Ad.Kumar	280
**	<i>Frullania sharpaii</i> S.Hatt.	280
**	<i>Frullania sheana</i> S.Hatt.	270
**	<i>Frullania simmondsii</i> Steph.	270
**	<i>Frullania sinensis</i> Steph.	280
**	<i>Frullania sinosphaerantha</i> S.Hatt. et P.J.Lin	280
***	<i>Frullania sinskeana</i> J.J.Engel et B.C.Tan	283
***	<i>Frullania sinuata</i> Sande Lac.	270
**	<i>Frullania socotrana</i> Mitt.	283
*	<i>Frullania solanderiana</i> Colenso	283
**	<i>Frullania speciosa</i> Herzog	289
**	<i>Frullania spegazzinii</i> M.E.Reiner	264
**	<i>Frullania sphaerantha</i> S.Hatt.	280
***	<i>Frullania sphaerocephala</i> Spruce	265
**	<i>Frullania sphaerolobulata</i> S.H.Lin	280
***	<i>Frullania spinifera</i> Taylor	280
**	<i>Frullania spinigastria</i> S.Hatt.	280
**	<i>Frullania spiniplica</i> S.Hatt.	280
**	<i>Frullania spinistipula</i> Steph.	282
***	<i>Frullania spongiosa</i> Steph.	280
**	<i>Frullania squamuligera</i> Spruce	280
***	<i>Frullania squarrosula</i> (Hook.f. et Taylor) Gottsche, Lindenb. et Nees	280
***	<i>Frullania standaertii</i> Steph.	266
**	<i>Frullania steereana</i> S.Hatt.	270
***	<i>Frullania stenostipa</i> Spruce	280
**	<i>Frullania stipatiloba</i> Steph.	270
**	<i>Frullania streimannii</i> S.Hatt.	282
**	<i>Frullania stylifera</i> (R.M.Schust.) R.M.Schust.	285
***	<i>Frullania subarctica</i> Vilnet, Borovich. et Bakalin	293
**	<i>Frullania subcaduca</i> S.Hatt.	280
**	<i>Frullania subclavata</i> Steph.	280
**	<i>Frullania subdentata</i> Steph.	270
**	<i>Frullania subdentata</i> var. <i>latistipula</i> (S.Hatt.) S.Hatt.	270
*	<i>Frullania subdilata</i> C.Massal.	285
**	<i>Frullania subincumbens</i> S.Hatt.	283
**	<i>Frullania sublignosa</i> Steph.	292
**	<i>Frullania submultilacera</i> S.Hatt. et Koike	270
**	<i>Frullania subnigricaulis</i> S.Hatt.	280
**	<i>Frullania subnigricaulis</i> var. <i>subtruncata</i> S.Hatt.	280
**	<i>Frullania subocellata</i> S.Hatt.	270
*	<i>Frullania subpedicellata</i> S.Hatt.	280
**	<i>Frullania subpilibracteola</i> S.Hatt.	267
**	<i>Frullania subpyricalycina</i> Herzog	295
**	<i>Frullania subsquarrosa</i> S.Hatt.	280

**	<i>Frullania subtilissima</i> (Nees ex Mont.) Lindenb.	267
*	<i>Frullania subtropica</i> Steph.	283
**	<i>Frullania subtruncata</i> Steph.	295
**	<i>Frullania subvalida</i> S.Hatt. et Thaithong.	281
**	<i>Frullania supradecomposita</i> (Lehm. et Lindenb.) Lehm. et Lindenb.	289
***	<i>Frullania svihlana</i> S.Hatt.	281
***	<i>Frullania tagawana</i> (S.Hatt. et Thaithong) S.Hatt.	287
*	<i>Frullania taiheizana</i> Horik.	281
***	<i>Frullania tamarisci</i> (L.) Dumort.	293
**	<i>Frullania tamsuina</i> Steph.	281
***	<i>Frullania taradakensis</i> Steph.	281
***	<i>Frullania taxodiocola</i> R.M.Schust.	270
***	<i>Frullania teneriffae</i> (F.Weber) Nees.	293
**	<i>Frullania tenuirostris</i> Steph.	281
***	<i>Frullania ternatensis</i> Gottsche.	270
**	<i>Frullania ternatensis</i> var. <i>non-appendiculata</i> S.Hatt.	270
***	<i>Frullania tetraptera</i> Nees et Mont.	266
***	<i>Frullania thiersiae</i> S.Hatt.	287
**	<i>Frullania tixieri</i> S.Hatt.	287
*	<i>Frullania tjibodensis</i> S.Hatt. et Thaithong.	283
**	<i>Frullania togashiana</i> S.Hatt.	281
***	<i>Frullania toropuku</i> von Konrat, de Lange et Larraín.	290
*	<i>Frullania trianae</i> Gottsche.	289
*	<i>Frullania tricarinata</i> Sande Lac.	272
***	<i>Frullania trichodes</i> Mitt.	271
**	<i>Frullania trigona</i> L.Clark, Jovet-Ast et Frye.	293
**	<i>Frullania trinervis</i> (Lehm.) Drège.	266
**	<i>Frullania triquetra</i> Lindenb. et Gottsche.	281
*	<i>Frullania trollii</i> Herzog.	289
***	<i>Frullania truncatistyla</i> von Konrat, Hentschel, Heinrichs et Braggins.	291
**	<i>Frullania tubercularis</i> S.Hatt. et P.J.Lin.	281
**	<i>Frullania tunguraguana</i> L.Clark et Frye.	265
**	<i>Frullania turfosa</i> Lindenb. et Gottsche.	295
**	<i>Frullania tuyamae</i> S.Hatt. et Thaithong.	284
**	<i>Frullania udarii</i> V.Nath et Ajit P.Singh.	295
***	<i>Frullania uleana</i> Steph.	289
**	<i>Frullania umbonata</i> Mitt.	285
***	<i>Frullania usambarana</i> Schiffn.	272
**	<i>Frullania usambarana</i> var. <i>reducta</i> Vanden Berghen.	272
***	<i>Frullania usamiensis</i> Steph.	281
***	<i>Frullania utriculata</i> Steph.	285
**	<i>Frullania vaga</i> Mitt.	271
***	<i>Frullania vaginata</i> (Sw.) Nees.	271
*	<i>Frullania vaginata</i> var. <i>nigricans</i> (Gottsche, Lindenb. et Nees) Schiffn.	271
**	<i>Frullania valdiviensis</i> J.B.Jack et Steph.	281
**	<i>Frullania valida</i> Steph.	281
**	<i>Frullania valparaisiana</i> Lehm.	295
**	<i>Frullania vandenberghenii</i> Pócs.	267
*	<i>Frullania van-zantenii</i> Kamim. et S.Hatt.	271
**	<i>Frullania variegata</i> Steph.	281
**	<i>Frullania venusta</i> S.Hatt.	271
**	<i>Frullania verdoorniana</i> S.Hatt.	271

* <i>Frullania victoriensis</i> Steph.	281
*** <i>Frullania virginica</i> Lehm.	285
*** <i>Frullania vitalii</i> Yuzawa et S.Hatt.	271
** <i>Frullania vittata</i> S.Hatt.	271
*** <i>Frullania vittiana</i> S.Hatt.	281
** <i>Frullania vivipara</i> Pócs	271
** <i>Frullania wagneri</i> Steph.	295
** <i>Frullania wairua</i> von Konrat et Braggins	271
** <i>Frullania wangii</i> S.Hatt. et P.J.Lin.	281
** <i>Frullania warnckeana</i> S.Hatt.	271
** <i>Frullania warnckeana</i> var. <i>dentosa</i> S.Hatt.	271
*** <i>Frullania weberbaueri</i> Steph.	289
*** <i>Frullania winteri</i> Steph.	266
*** <i>Frullania winteri</i> var. <i>vanderhammenii</i> (Haarbrink) Yuzawa.	266
*** <i>Frullania yuennanensis</i> Steph.	281
** <i>Frullania yuennanensis</i> var. <i>siamensis</i> (N.Kitag., Thaithong et S.Hatt.) S.Hatt. et P.J.Lin.	281
** <i>Frullania yuzawana</i> S.Hatt.	281
** <i>Frullania zangii</i> S.Hatt. et P.J.Lin.	281
** <i>Frullania zennoskeana</i> S.Hatt.	281
*** <i>Frullanoides bahamensis</i> (A.Evans) van Slageren	405
*** <i>Frullanoides corticalis</i> (Lehm. et Lindenb.) van Slageren	405
*** <i>Frullanoides densifolia</i> Raddi	405
*** <i>Frullanoides densifolia</i> subsp. <i>grandidentata</i> (L.Clark) van Slageren	405
*** <i>Frullanoides laciniatiflora</i> (Loitl.) van Slageren	405
*** <i>Frullanoides liebmaniana</i> (Lindenb. et Gottsche) van Slageren	405
*** <i>Frullanoides mexicana</i> van Slageren	405
*** <i>Frullanoides tristis</i> (Steph.) van Slageren.	405
*** <i>Fulfordianthus evansii</i> (Fulford) Gradst.	405
*** <i>Fulfordianthus pterobryoides</i> (Spruce) Gradst.	405
** <i>Fuscocephaloziopsis affinis</i> (Lindb. ex Steph.) Vána et L.Söderstr.	59
*** <i>Fuscocephaloziopsis africana</i> (Vána) Vána et L.Söderstr.	59
*** <i>Fuscocephaloziopsis albescens</i> (Hook.) Vána et L.Söderstr.	59
* <i>Fuscocephaloziopsis albescens</i> var. <i>islandica</i> (Nees) Vána et L.Söderstr.	59
*** <i>Fuscocephaloziopsis baldwinii</i> (C.M.Cooke) Vána et L.Söderstr.	59
** <i>Fuscocephaloziopsis biloba</i> (Herzog) Fulford.	59
*** <i>Fuscocephaloziopsis catenulata</i> (Huebener) Vána et L.Söderstr.	59
*** <i>Fuscocephaloziopsis catenulata</i> subsp. <i>nipponica</i> (S.Hatt.) Vána et L.Söderstr.	59
*** <i>Fuscocephaloziopsis connivens</i> (Dicks.) Vána et L.Söderstr.	60
*** <i>Fuscocephaloziopsis connivens</i> subsp. <i>fissa</i> (Steph.) Vána et L.Söderstr.	60
*** <i>Fuscocephaloziopsis connivens</i> subsp. <i>sandwicensis</i> (Mont.) Vána et L.Söderstr.	60
*** <i>Fuscocephaloziopsis crassifolia</i> (Lindenb. et Gottsche) Vána et L.Söderstr.	60
*** <i>Fuscocephaloziopsis gollanii</i> (Steph.) Vána et L.Söderstr.	60
*** <i>Fuscocephaloziopsis leucantha</i> (Spruce) Vána et L.Söderstr.	60
*** <i>Fuscocephaloziopsis loitlesbergeri</i> (Schiffn.) Vána et L.Söderstr.	60
*** <i>Fuscocephaloziopsis lumulifolia</i> (Dumort.) Vána et L.Söderstr.	60
*** <i>Fuscocephaloziopsis macrostachya</i> (Kaal.) Vána et L.Söderstr.	60
*** <i>Fuscocephaloziopsis macrostachya</i> subsp. <i>australis</i> (R.M.Schust.) Vána et L.Söderstr.	60
*** <i>Fuscocephaloziopsis macrostachya</i> subsp. <i>macrostachya</i> var. <i>spiniflora</i> (Schiffn.) Vána et L.Söderstr.	60
*** <i>Fuscocephaloziopsis monticola</i> (J.D.Godfrey) Vána et L.Söderstr.	60
*** <i>Fuscocephaloziopsis pachycaulis</i> (R.M.Schust.) Vána et L.Söderstr.	60
*** <i>Fuscocephaloziopsis pleniceps</i> (Austin) Vána et L.Söderstr.	61
** <i>Fuscocephaloziopsis pleniceps</i> var. <i>caroliniana</i> (R.M.Schust.) Vána et L.Söderstr.	61

***	<i>Fuscocephaloziopsis pulvinata</i> (Steph.) Fulford	61
*	<i>Fuscocephaloziopsis schusteri</i> (Sushil K.Singh et D.K.Singh) Váňa	61
***	<i>Fuscocephaloziopsis subintegra</i> Gradst. et Váňa	61
***	<i>Fuscocephaloziopsis zoopsioides</i> (Horik.) Váňa et L.Söderstr.	61
***	<i>Gackstroemia alpina</i> R.M.Schust.	416
***	<i>Gackstroemia hariotiana</i> (Besch. et C.Massal.) Grolle	415
**	<i>Gackstroemia ljungheri</i> (Herzog) Grolle	415
***	<i>Gackstroemia magellanica</i> (Lam.) Trevis.	415
***	<i>Gackstroemia novae-zelandiae</i> R.M.Schust. et J.J.Engel	415
***	<i>Gackstroemia patagonica</i> (Steph.) Grolle	416
**	<i>Gackstroemia schwabei</i> (Herzog) Grolle	416
***	<i>Gackstroemia weindorferi</i> (Herzog) Grolle	415
***	<i>Geocalyx caledonicus</i> Steph.	109
***	<i>Geocalyx graveolens</i> (Schrad.) Nees	109
**	<i>Geocalyx lancistipulus</i> (Steph.) S.Hatt.	109
**	<i>Geocalyx orientalis</i> Besch. et Spruce	109
***	<i>Geothallus tuberosus</i> Campb.	506
***	<i>Gerbildiella rossneriana</i> Grolle	78
***	<i>Goebeliella cornigera</i> (Mitt.) Steph.	415
***	<i>Goebelobryum grossitextum</i> (Steph.) Grolle	97
***	<i>Goebelobryum unguiculatum</i> (Hook.f. et Taylor) Grolle	97
***	<i>Goebelobryum vermiculare</i> J.J.Engel et Glenny	97
***	<i>Gongylanthus dusenii</i> Steph.	135
***	<i>Gongylanthus ericetorum</i> (Raddi) Nees	135
***	<i>Gongylanthus granatensis</i> (Gottsche) Steph.	135
***	<i>Gongylanthus himalayensis</i> Grolle	135
***	<i>Gongylanthus javanicus</i> Grolle	135
***	<i>Gongylanthus liebmanianus</i> (Lindenb. et Gottsche) Steph.	135
***	<i>Gongylanthus limbatus</i> (Herzog) Grolle et Váňa	135
***	<i>Gongylanthus muelleri</i> (Gottsche) Steph.	135
**	<i>Gongylanthus oniscoides</i> (Spruce) Steph.	135
***	<i>Gongylanthus richardsonii</i> E.W.Jones	135
***	<i>Gottschelia maxima</i> (Steph.) Grolle	74
***	<i>Gottschelia schizopleura</i> (Spruce) Grolle	74
***	<i>Greeneothallus gemmiparus</i> Hässel	471
**	<i>Grollea antheliopsis</i> R.M.Schust.	138
***	<i>Gymnocolea borealis</i> (Frisvoll et Moen) R.M.Schust.	52
**	<i>Gymnocolea fascinifera</i> Potemkin	52
***	<i>Gymnocolea inflata</i> (Huds.) Dumort.	52
*	<i>Gymnocolea inflata</i> subsp. <i>acutiloba</i> (Schiffn.) R.M.Schust. et Damsh. ex L.Söderstr. et Váňa	52
***	<i>Gymnocoleopsis capensis</i> (S.W.Arnell) R.M.Schust.	74
***	<i>Gymnocoleopsis cylindriformis</i> (Mitt.) R.M.Schust.	74
***	<i>Gymnomitrium adustum</i> Nees	110
***	<i>Gymnomitrium africanum</i> (Steph.) Horik.	110
***	<i>Gymnomitrium alpinum</i> (Gottsche ex Husn.) Schiffn.	110
***	<i>Gymnomitrium asperulatum</i> R.M.Schust.	110
***	<i>Gymnomitrium atroflum</i> Váňa	110
***	<i>Gymnomitrium bolivianum</i> (Steph.) Váňa	110
***	<i>Gymnomitrium brevissimum</i> (Dumort.) Warnst.	110
***	<i>Gymnomitrium commutatum</i> (Limpr.) Schiffn.	111
***	<i>Gymnomitrium concinnatum</i> (Lightf.) Corda	111
***	<i>Gymnomitrium corallioides</i> Nees	111

***	<i>Gymnomitrium crenatilobum</i> Grolle.....	111
***	<i>Gymnomitrium crenulatum</i> Gottsche ex Carrington.....	111
***	<i>Gymnomitrium crystallocaulon</i> (Grolle) Váňa, Crand.-Stotl. et Stotler	111
**	<i>Gymnomitrium incompletum</i> (Gottsche) R.M.Schust. ex Váňa	111
***	<i>Gymnomitrium laceratum</i> (Steph.) Horik.	111
***	<i>Gymnomitrium miniatum</i> Lindenb. et Gottsche	111
***	<i>Gymnomitrium minutulum</i> (Hässel) Váňa	111
**	<i>Gymnomitrium moralesae</i> Váňa.....	111
***	<i>Gymnomitrium mucronulatum</i> (N.Kitag.) N.Kitag.	111
**	<i>Gymnomitrium mucrophorum</i> R.M.Schust.....	111
***	<i>Gymnomitrium nigrum</i> (Grolle et Váňa) Váňa.....	111
***	<i>Gymnomitrium noguchianum</i> S.Hatt.	111
***	<i>Gymnomitrium obtusilobum</i> N.Kitag.	111
***	<i>Gymnomitrium obtusum</i> Lindb.	111
***	<i>Gymnomitrium pacificum</i> Grolle.....	111
***	<i>Gymnomitrium revolutum</i> (Nees) H.Philib.	111
**	<i>Gymnomitrium revolutum</i> subsp. <i>novoguineanensis</i> (R.M.Schust.) Váňa, Crand.-Stotl. et Stotler ..	112
***	<i>Gymnomitrium rubidum</i> (Mitt.) Váňa, Crand.-Stotl. et Stotler	112
***	<i>Gymnomitrium setaceum</i> Grolle et Váňa	112
***	<i>Gymnomitrium sinense</i> Müll.Frib.	112
**	<i>Gymnomitrium strictum</i> (Berggr.) R.M.Schust.....	112
**	<i>Gymnomitrium strictum</i> var. <i>inaequale</i> R.M.Schust.....	112
***	<i>Gymnomitrium subintegrum</i> (S.W.Arnell) Váňa.....	112
***	<i>Gymnomitrium truncatoapiculatum</i> Herzog	112
***	<i>Gymnomitrium verrucosum</i> W.E.Nicholson.....	112
***	<i>Gyrothyra underwoodiana</i> M.Howe	115
***	<i>Haesselia acuminata</i> Gradst.	64
***	<i>Haesselia roraimensis</i> Grolle et Gradst.....	64
***	<i>Hamatostrepta concinna</i> Váňa et D.G.Long.....	52
***	<i>Haplolejeunea cucullata</i> (Steph.) Grolle	348
**	<i>Haplolejeunea sticta</i> Grolle	348
***	<i>Haplomitrium blumei</i> (Nees) R.M.Schust.	41
***	<i>Haplomitrium gibbsiae</i> (Steph.) R.M.Schust.....	42
***	<i>Haplomitrium hookeri</i> (Lyell ex Sm.) Nees	42
***	<i>Haplomitrium hookeri</i> var. <i>minutum</i> (E.O.Campb.) Barthol.-Began.....	42
***	<i>Haplomitrium intermedium</i> Berrie.....	42
***	<i>Haplomitrium mnioides</i> (Lindb.) R.M.Schust.....	41
***	<i>Haplomitrium monoicum</i> J.J.Engel	42
***	<i>Haplomitrium ovalifolium</i> R.M.Schust.	42
*	<i>Harpalejeunea acuta</i> S.Winkl.	362
***	<i>Harpalejeunea ancistrodes</i> (Spruce) Schiffn.	362
**	<i>Harpalejeunea buenaventurae</i> Herzog	362
***	<i>Harpalejeunea cinchonae</i> (Nees) Schiffn.....	362
**	<i>Harpalejeunea cinchonae</i> var. <i>strigulosa</i> Herzog	363
**	<i>Harpalejeunea decurvicuspis</i> (Besch. et C.Massal.) P.Syd.....	363
**	<i>Harpalejeunea emarginata</i> Jovet-Ast	363
**	<i>Harpalejeunea exocellata</i> Herzog.....	363
***	<i>Harpalejeunea grandis</i> Grolle et M.E.Reiner.....	362
**	<i>Harpalejeunea grandistipula</i> R.M.Schust.	363
*	<i>Harpalejeunea grossearmata</i> Steph.....	364
***	<i>Harpalejeunea harpaphylla</i> (Herzog) Bischl.	363
**	<i>Harpalejeunea herzogii</i> Jovet-Ast	363

**	<i>Harpalejeunea longibracteata</i> (Spruce) Steph.....	363
**	<i>Harpalejeunea marginalis</i> (Hook.f. et Taylor) Steph.	363
***	<i>Harpalejeunea molleri</i> (Steph.) Grolle.....	363
**	<i>Harpalejeunea molleri</i> subsp. <i>integra</i> (R.M.Schust.) Damsh.....	363
***	<i>Harpalejeunea oxyphylla</i> (Nees et Mont.) Steph.....	363
***	<i>Harpalejeunea parasitica</i> (Hook.f. et Taylor) Steph.	363
**	<i>Harpalejeunea pinaundensis</i> Grolle	363
**	<i>Harpalejeunea reflexula</i> A.Evans	363
*	<i>Harpalejeunea renneri</i> Herzog	364
**	<i>Harpalejeunea scabra</i> Gradst. et Schäf.-Verw.	363
***	<i>Harpalejeunea schiffneri</i> S.W.Arnell.....	363
*	<i>Harpalejeunea solitaria</i> (Gottsche) Steph.	363
*	<i>Harpalejeunea spruceana</i> Steph.	364
***	<i>Harpalejeunea stricta</i> (Lindenb. et Gottsche) Steph.	364
**	<i>Harpalejeunea subacuta</i> A.Evans.....	364
*	<i>Harpalejeunea tenuicuspis</i> (Spruce) Schiffn.	364
***	<i>Harpalejeunea tridens</i> (Besch. et Spruce) Steph.....	364
**	<i>Harpalejeunea uncinata</i> Steph.	364
*	<i>Harpalejeunea uncinata</i> var. <i>setulosa</i> Herzog	364
*	<i>Harpalejeunea vitrea</i> Herzog	364
***	<i>Harpanthus drummondii</i> (Taylor) Grolle.....	116
***	<i>Harpanthus flotovianus</i> (Nees) Nees	116
***	<i>Harpanthus scutatus</i> (F.Weber et D.Mohr) Spruce	116
***	<i>Hattoria yakushimensis</i> (Horik.) R.M.Schust.	53
***	<i>Hattorianthus erimonus</i> (Steph.) R.M.Schust. et Inoue.....	469
**	<i>Hattoriolejeunea akiyamae</i> Mizut.....	364
***	<i>Hepatostolonophora abnormis</i> (Besch. et C.Massal.) J.J.Engel et R.M.Schust.....	196
**	<i>Hepatostolonophora conica</i> (Steph.) Hässel	196
***	<i>Hepatostolonophora paucistipula</i> (Rodway) J.J.Engel	196
***	<i>Hepatostolonophora rotata</i> (Hook.f. et Taylor) J.J.Engel.....	196
***	<i>Hepatostolonophora rotata</i> var. <i>perssonii</i> (R.M.Schust.) J.J.Engel	197
***	<i>Herbertus aduncus</i> (Dicks.) Gray	138
**	<i>Herbertus arcticus</i> (Inoue et Steere) Schljakov.....	139
**	<i>Herbertus armitanus</i> (Steph.) H.A.Mill.....	139
**	<i>Herbertus asparus</i> Tixier	139
***	<i>Herbertus bivittatus</i> Spruce.....	139
**	<i>Herbertus borealis</i> Crundw.	139
**	<i>Herbertus buchii</i> Juslén.....	139
**	<i>Herbertus ceylanicus</i> (Steph.) Abeyw.	139
**	<i>Herbertus circinatus</i> (Steph.) H.A.Mill.	139
***	<i>Herbertus delavayi</i> (Steph.) Steph.	139
***	<i>Herbertus dicranus</i> (Gottsche, Lindenb. et Nees) Trevis.	139
**	<i>Herbertus durandii</i> (Steph.) Herzog	139
*	<i>Herbertus evittatus</i> (Steph.) H.A.Mill.	139
**	<i>Herbertus gaochienii</i> X.Fu.....	139
**	<i>Herbertus gracilis</i> (Mont.) Steph.	139
**	<i>Herbertus guangdongii</i> P.J.Lin ex Piippo.....	139
**	<i>Herbertus hawaiiensis</i> H.A.Mill.	139
**	<i>Herbertus helleri</i> (Steph.) W.E.Nicholson.....	139
**	<i>Herbertus herpocladoides</i> E.B.Scott et H.A.Mill.	139
***	<i>Herbertus hutchinsiae</i> (Gottsche et Rabenh.) A.Evans.....	140
***	<i>Herbertus juniperoides</i> (Sw.) Grolle.....	140

***	<i>Herbertus juniperoideus</i> subsp. <i>acanthelius</i> (Spruce) K.Feldberg et Heinrichs	140
***	<i>Herbertus juniperoideus</i> subsp. <i>pensilis</i> (Taylor) K.Feldberg et Heinrichs.....	140
**	<i>Herbertus kurzii</i> (Steph.) R.S.Chopra.....	140
**	<i>Herbertus leratii</i> (Steph.) H.A.Mill.....	140
**	<i>Herbertus lonchobasis</i> H.A.Mill.....	140
**	<i>Herbertus longifissus</i> Steph.	140
**	<i>Herbertus longispinus</i> J.B.Jack et Steph.	140
**	<i>Herbertus mauritianus</i> N.G.Hodgetts.....	140
***	<i>Herbertus norenius</i> D.G.Long, D.Bell et H.H.Blom	140
**	<i>Herbertus oldfieldianus</i> (Steph.) Rodway.....	140
**	<i>Herbertus pilifer</i> Schiffn.....	140
**	<i>Herbertus pocsii</i> N.G.Hodgetts	140
**	<i>Herbertus pumilus</i> Steph.....	140
**	<i>Herbertus ramosus</i> (Steph.) H.A.Mill.....	140
**	<i>Herbertus runcinatus</i> (Taylor) Trevis.	140
***	<i>Herbertus sendtneri</i> (Nees) Lindb.....	140
**	<i>Herbertus spicatus</i> N.G.Hodgetts.....	140
***	<i>Herbertus stramineus</i> (Dumort.) Trevis.....	141
**	<i>Herbertus streimannii</i> M.L.So.....	141
*	<i>Herbertus subrotundatus</i> X.Fu et Y.J.Yi.....	141
***	<i>Herbertus tenuis</i> A.Evans	141
**	<i>Herbertus udarii</i> D.Kumar et N.Manocha.....	141
*	<i>Herzogianthus sanguineus</i> R.M.Schust.	434
***	<i>Herzogianthus vaginatus</i> (Herzog) R.M.Schust.	434
***	<i>Herzogiaria teres</i> (Steph.) Fulford ex Hässel.....	254
***	<i>Herzogobryum atrocapillum</i> (Hook.f. et Taylor) Grolle.....	74
***	<i>Herzogobryum filiforme</i> R.M.Schust.	74
***	<i>Herzogobryum molle</i> Grolle	74
***	<i>Herzogobryum vermiculare</i> (Schiffn.) Grolle.....	74
***	<i>Heterogemma capitata</i> (Hook.) Konstant. et Vilnet	79
***	<i>Heterogemma laxa</i> (Lindb.) Konstant. et Vilnet.....	80
***	<i>Heterogemma patagonica</i> (Herzog et Grolle) L.Söderstr. et Váňa	80
**	<i>Heteroscyphus acutangulus</i> (Schiffn.) Schiffn.	197
**	<i>Heteroscyphus allodontus</i> (Hook.f. et Taylor) J.J.Engel et R.M.Schust.....	197
**	<i>Heteroscyphus amboinensis</i> (Schiffn.) Schiffn.	197
**	<i>Heteroscyphus ammophilus</i> (Colenso) R.M.Schust.....	197
**	<i>Heteroscyphus ammophilus</i> var. <i>obtusifolius</i> J.J.Engel et G.L.Merr.....	197
***	<i>Heteroscyphus argutus</i> (Reinw., Blume et Nees) Schiffn.....	197
**	<i>Heteroscyphus argutus</i> var. <i>brevidens</i> (Schiffn.) Herzog et Nog.....	197
***	<i>Heteroscyphus aselliformis</i> (Reinw., Blume et Nees) Schiffn.	197
**	<i>Heteroscyphus assurgentifolius</i> J.J.Engel.....	197
**	<i>Heteroscyphus baduinus</i> (Nees) Schiffn.....	197
**	<i>Heteroscyphus balnetii</i> (Herzog) Grolle	197
***	<i>Heteroscyphus billardierei</i> (Schwägr.) Schiffn.....	197
**	<i>Heteroscyphus billardierei</i> var. <i>clasmatocoleoides</i> (J.J.Engel et G.L.Merr.) J.J.Engel.....	197
**	<i>Heteroscyphus brassii</i> (Grolle) Grolle	198
*	<i>Heteroscyphus caesius</i> (Schiffn.) Schiffn.	198
*	<i>Heteroscyphus caledonicus</i> (Steph.) Schiffn.....	198
**	<i>Heteroscyphus chlorophyllus</i> (Hook.f. et Taylor) Schiffn.....	198
**	<i>Heteroscyphus ciliatus</i> (Steph.) Schiffn.....	198
***	<i>Heteroscyphus coalitus</i> (Hook.) Schiffn.....	198
**	<i>Heteroscyphus coalitus</i> var. <i>simplicifolius</i> J.J.Engel	198

**	<i>Heteroscyphus combinatus</i> (Nees) Schiffn.....	198
***	<i>Heteroscyphus conjugatus</i> (Mitt.) J.J.Engel et R.M.Schust.....	198
***	<i>Heteroscyphus contortuplicatus</i> (Nees et Mont.) Grolle	198
***	<i>Heteroscyphus cuneistipulus</i> (Steph.) Schiffn.	198
**	<i>Heteroscyphus darjeelingensis</i> A.Srivast. et S.C.Srivast.	198
**	<i>Heteroscyphus deceptifrons</i> J.J.Engel.....	198
***	<i>Heteroscyphus dentammophilus</i> J.J.Engel et G.L.Merr.....	198
**	<i>Heteroscyphus denticulatus</i> (Mitt.) Schiffn.	199
**	<i>Heteroscyphus deplanchei</i> (Steph.) Schiffn.	199
**	<i>Heteroscyphus diestianus</i> (Sande Lac.) Piippo	199
**	<i>Heteroscyphus divergenticiliatus</i> (Steph.) Fulford	199
**	<i>Heteroscyphus dubius</i> (Gottsche) Schiffn.	199
***	<i>Heteroscyphus echinellus</i> (Lindenb. et Gottsche) J.J.Engel et Xiao L.He	199
**	<i>Heteroscyphus echinellus</i> var. <i>hyalinus</i> J.J.Engel.....	199
**	<i>Heteroscyphus eliottii</i> (Steph.) Pagán	199
*	<i>Heteroscyphus eliottii</i> var. <i>portoricensis</i> Fulford.....	199
*	<i>Heteroscyphus falcifolius</i> (Steph.) Schiffn.	199
***	<i>Heteroscyphus fissistipus</i> (Hook.f. et Taylor) Schiffn.	199
**	<i>Heteroscyphus fissistipus</i> var. <i>multispinus</i> (E.A.Hodgs. et Allison) J.J.Engel	199
**	<i>Heteroscyphus fissistipus</i> var. <i>repandus</i> J.J.Engel.....	199
**	<i>Heteroscyphus flaccidus</i> (Mitt.) A.Srivast. et S.C.Srivast.	199
**	<i>Heteroscyphus fleischeri</i> (Steph.) D.G.Long et Rubas.	199
*	<i>Heteroscyphus fragilicilius</i> (Schiffn.) Schiffn.	200
**	<i>Heteroscyphus furcistipulus</i> (E.A.Hodgs.) J.J.Engel et R.M.Schust.	200
**	<i>Heteroscyphus giganteus</i> (Steph.) Hürl.	200
**	<i>Heteroscyphus graeffei</i> (J.B.Jack et Steph.) Grolle.....	200
**	<i>Heteroscyphus grandiflorus</i> (Steph.) Hürl.	200
**	<i>Heteroscyphus grandistipus</i> (Steph.) Schiffn.	200
**	<i>Heteroscyphus gunnianus</i> (Mitt.) J.J.Engel et R.M.Schust.....	200
**	<i>Heteroscyphus hastatus</i> (E.A.Hodgs.) J.J.Engel et R.M.Schust.	200
**	<i>Heteroscyphus hebridensis</i> (Steph.) Schiffn.	200
**	<i>Heteroscyphus heterophyllus</i> (Steph.) J.J.Engel et R.M.Schust.	200
**	<i>Heteroscyphus hyalinus</i> (Steph.) A.Srivast. et S.C.Srivast.	200
***	<i>Heteroscyphus integrifolius</i> (Lehm. et Lindenb.) Fulford.....	200
**	<i>Heteroscyphus iwatsukii</i> (S.Hatt.) Piippo.....	200
**	<i>Heteroscyphus jackii</i> (Steph.) Schiffn.	200
***	<i>Heteroscyphus knightii</i> (Steph.) Grolle.....	201
**	<i>Heteroscyphus levieri</i> (Steph.) Schiffn.	201
**	<i>Heteroscyphus limosus</i> (Carrington et Pearson) Schiffn.	201
**	<i>Heteroscyphus lingulatus</i> (Colenso) J.J.Engel et R.M.Schust.	201
**	<i>Heteroscyphus lophocoleoides</i> S.Hatt.	201
***	<i>Heteroscyphus lyallii</i> (Mitt.) R.M.Schust.	201
***	<i>Heteroscyphus magellanicus</i> (Steph.) J.J.Engel et R.M.Schust.	201
**	<i>Heteroscyphus mamillatus</i> Piippo.....	201
**	<i>Heteroscyphus marginatus</i> (Steph.) Fulford.....	201
***	<i>Heteroscyphus menziesii</i> (Mitt.) J.J.Engel.....	201
**	<i>Heteroscyphus merapiensis</i> (Steph.) Piippo.....	201
**	<i>Heteroscyphus miradorensis</i> (Steph.) Schiffn.	201
***	<i>Heteroscyphus mononucleus</i> J.J.Engel	201
**	<i>Heteroscyphus mononucleus</i> var. <i>ammophilopsis</i> J.J.Engel	201
**	<i>Heteroscyphus mononucleus</i> var. <i>bilobus</i> J.J.Engel	201
**	<i>Heteroscyphus montagnei</i> (Steph.) Fulford	201

**	<i>Heteroscyphus multifidus</i> (Steph.) J.J.Engel et R.M.Schust.	202
**	<i>Heteroscyphus multifidus</i> var. <i>subintegerrimus</i> J.J.Engel	202
**	<i>Heteroscyphus nadeaudii</i> (Steph.) Schiffn.	202
**	<i>Heteroscyphus orbiculatus</i> A.Srivast. et S.C.Srivast.	202
**	<i>Heteroscyphus palniensis</i> A.Srivast. et S.C.Srivast.	202
**	<i>Heteroscyphus pandei</i> S.C.Srivast. et A.Srivast.	202
***	<i>Heteroscyphus parallelifolius</i> J.J.Engel	202
**	<i>Heteroscyphus parvulus</i> (Schiffn.) Schiffn.	202
**	<i>Heteroscyphus parvus</i> A.Srivast. et S.C.Srivast.	202
**	<i>Heteroscyphus perfoliatus</i> (Mont.) Schiffn.	202
**	<i>Heteroscyphus pertusus</i> (Lehm.) Fulford	202
***	<i>Heteroscyphus planiusculus</i> (Hook.f. et Taylor) J.J.Engel	202
**	<i>Heteroscyphus planus</i> (Mitt.) Schiffn.	202
***	<i>Heteroscyphus polyblepharis</i> (Spruce) Schiffn.	202
***	<i>Heteroscyphus polychaetus</i> (Spruce) Hentschel et Heinrichs	202
**	<i>Heteroscyphus polycladus</i> (Hook.f. et Lév.) R.M.Schust.	202
**	<i>Heteroscyphus rectangulatus</i> (Herzog) Piippo	203
**	<i>Heteroscyphus saccogynoides</i> Herzog	203
**	<i>Heteroscyphus sarawaketanus</i> Piippo	203
***	<i>Heteroscyphus sinuosus</i> (Hook.) Schiffn.	203
**	<i>Heteroscyphus spectabilis</i> (Steph.) Schiffn.	203
**	<i>Heteroscyphus spinifer</i> C.Gao, T.Cao et Y.H.Wu	203
***	<i>Heteroscyphus splendens</i> (Lehm. et Lindenb.) Grolle	203
**	<i>Heteroscyphus splendidus</i> (E.A.Hodgs.) J.J.Engel et R.M.Schust.	203
***	<i>Heteroscyphus stolonifer</i> J.J.Engel	203
***	<i>Heteroscyphus succulentus</i> (Gottsche) Schiffn.	203
**	<i>Heteroscyphus supinus</i> (Hook.f. et Taylor) R.M.Schust.	203
**	<i>Heteroscyphus tener</i> (Steph.) Schiffn.	203
***	<i>Heteroscyphus thraustus</i> (Spruce) Fulford	203
**	<i>Heteroscyphus timppae</i> Piippo	203
***	<i>Heteroscyphus triacanthus</i> (Hook.f. et Lév.) Schiffn.	203
**	<i>Heteroscyphus triacanthus</i> var. <i>magnistipulatus</i> J.J.Engel	203
**	<i>Heteroscyphus tridentatus</i> (Sande Lac.) Grolle	203
**	<i>Heteroscyphus turgidus</i> (Schiffn.) Schiffn.	204
***	<i>Heteroscyphus valdiviensis</i> (Mont.) Schiffn.	204
**	<i>Heteroscyphus varians</i> (Steph.) J.J.Engel	204
**	<i>Heteroscyphus wettsteinii</i> (Schiffn.) Schiffn.	204
**	<i>Heteroscyphus zollingeri</i> (Gottsche) Schiffn.	204
**	<i>Hyalolepidozia bicuspidata</i> (C.Massal.) S.W.Arnell ex Grolle	183
**	<i>Hygrobiiella intermedia</i> Bakalin et Vilnet	116
***	<i>Hygrobiiella laxifolia</i> (Hook.) Spruce	116
**	<i>Hygrobiiella squamosa</i> Bakalin et Vilnet	116
*	<i>Hygrolejeunea cubensis</i> Steph.	509
*	<i>Hygrolejeunea harpaphylla</i> Steph.	509
*	<i>Hygrolejeunea pacifica</i> Steph.	509
*	<i>Hygrolejeunea parvicalycina</i> Steph.	509
*	<i>Hygrolejeunea parvistipula</i> Steph.	509
*	<i>Hygrolejeunea patellirostris</i> Steph.	509
*	<i>Hygrolejeunea staudtiana</i> Steph.	509
***	<i>Hygrolembidium acrocladum</i> (Berggr.) R.M.Schust.	164
**	<i>Hygrolembidium andinum</i> (Herzog) R.M.Schust.	164
***	<i>Hygrolembidium australe</i> (Steph.) Grolle	164

***	<i>Hygrolembidium boschianum</i> (Sande Lac.) R.M.Schust.....	164
**	<i>Hygrolembidium isophyllum</i> R.M.Schust.....	164
***	<i>Hygrolembidium rigidum</i> R.M.Schust. et J.J.Engel.....	164
***	<i>Hygrolembidium triquetrum</i> J.J.Engel et R.M.Schust.....	164
**	<i>Hygrolembidium ventrosum</i> (Mitt.) Grolle.....	164
***	<i>Hymenophyton flabellatum</i> (Labill.) Dumort. ex Trevis.....	468
***	<i>Hymenophyton leptopodium</i> (Hook.f. et Taylor) A.Evans.....	468
***	<i>Hymenophyton pedicellatum</i> Steph.....	469
*	<i>Hypenantron brachyptus</i> Steph. ex Lamothe.....	509
*	<i>Hypenantron brasiliense</i> Steph. ex Lamothe.....	509
***	<i>Isolembidium anomalum</i> (Rodway) Grolle.....	164
**	<i>Isolembidium anomalum</i> var. <i>cucullatum</i> (E.A.Hodgs.) J.J.Engel et R.M.Schust.....	164
***	<i>Isopaches alboviridis</i> (R.M.Schust.) Schljakov.....	53
***	<i>Isopaches bicrenatus</i> (Schmidel ex Hoffm.) H.Buch.....	53
***	<i>Isopaches decolorans</i> (Limpr.) H.Buch.....	53
***	<i>Isopaches pumicicola</i> (Berggr.) Bakalin.....	53
***	<i>Isophyllaria attenuata</i> (Rodway) E.A.Hodgs.....	254
**	<i>Isophyllaria fuegiana</i> (Hässel) R.M.Schust.....	254
***	<i>Isotachis armata</i> (Nees) Gottsche.....	101
***	<i>Isotachis aubertii</i> (Schwäger.) Mitt.....	101
*	<i>Isotachis boliviensis</i> Gottsche.....	101
**	<i>Isotachis chinensis</i> C.Gao, T.Cao et J.Sun.....	101
**	<i>Isotachis erythrorhiza</i> (Lehm. et Lindenb.) Spruce.....	101
***	<i>Isotachis fragilis</i> Steph.....	101
**	<i>Isotachis grandis</i> Carrington et Pearson.....	101
***	<i>Isotachis grossidens</i> Steph.....	101
**	<i>Isotachis hastatistipula</i> (Steph.) J.J.Engel.....	101
*	<i>Isotachis hians</i> Steph.....	101
***	<i>Isotachis humectata</i> (Hook.f. et Taylor) Steph.....	101
**	<i>Isotachis inflata</i> Steph.....	101
***	<i>Isotachis intortifolia</i> (Hook.f. et Taylor) Gottsche.....	101
**	<i>Isotachis japonica</i> Steph.....	101
*	<i>Isotachis lacustris</i> Herzog.....	101
***	<i>Isotachis lopezii</i> (R.M.Schust.) Gradst.....	101
***	<i>Isotachis lyallii</i> Mitt.....	101
***	<i>Isotachis minima</i> Pearson.....	101
***	<i>Isotachis montana</i> Colenso.....	101
***	<i>Isotachis multiceps</i> (Lindenb. et Gottsche) Gottsche.....	102
**	<i>Isotachis multiceps</i> var. <i>fendleri</i> Gottsche.....	102
**	<i>Isotachis nigella</i> Herzog.....	102
***	<i>Isotachis obtusa</i> Steph.....	102
**	<i>Isotachis olivacea</i> R.M.Schust.....	102
***	<i>Isotachis plicata</i> J.J.Engel.....	102
**	<i>Isotachis pusilla</i> Steph.....	102
**	<i>Isotachis riparia</i> Rodway.....	102
***	<i>Isotachis serrulata</i> (Sw.) Gottsche.....	102
***	<i>Isotachis spagazziniana</i> C.Massal.....	102
*	<i>Isotachis sprucei</i> Beauverd.....	102
***	<i>Isotachis stephanii</i> E.S.Salmon.....	102
*	<i>Isotachis vexans</i> Steph.....	102
***	<i>Isotachis westlandica</i> (E.A.Hodgs.) R.M.Schust.....	102
**	<i>Jackiella angustifolia</i> Herzog.....	116

**	<i>Jackiella ceylanica</i> Schiffn. ex Steph.	116
***	<i>Jackiella curvata</i> E.A.Hodgs. et Allison.....	117
***	<i>Jackiella javanica</i> Schiffn.	117
**	<i>Jackiella javanica</i> var. <i>cavifolia</i> Schiffn.	117
**	<i>Jackiella javanica</i> var. <i>cordifolia</i> Schiffn.	117
**	<i>Jackiella renifolia</i> Schiffn.	117
**	<i>Jackiella sinensis</i> (W.E.Nicholson) Grolle	117
**	<i>Jackiella singapurensis</i> Schiffn.	117
**	<i>Jackiella singapurensis</i> var. <i>philippinensis</i> N.Kitag.....	117
*	<i>Jackiella unica</i> Steph.	117
*	<i>Jamesoniella convoluta</i> Steph.....	509
***	<i>Jensenia connivens</i> (Colenso) Grolle.....	469
*	<i>Jensenia crassifrons</i> (Steph.) S.Schuette et Stotler	470
***	<i>Jensenia decipiens</i> (Mitt.) Grolle	470
***	<i>Jensenia difformis</i> (Nees) Grolle.....	470
***	<i>Jensenia florschuetzii</i> Gronde	470
***	<i>Jensenia spinosa</i> (Lindenb. et Gottsche) Grolle	470
***	<i>Jensenia wallisii</i> (J.B.Jack et Steph.) Grolle.....	470
***	<i>Jubula blepharophylla</i> Grolle.....	295
**	<i>Jubula hattorii</i> Udar et V.Nath	295
**	<i>Jubula hattorii</i> var. <i>muthukuzhiana</i> A.E.D.Daniels et P.Daniel	295
**	<i>Jubula himalayensis</i> S.C.Srivast. et D.Sharma.....	296
***	<i>Jubula hutchinsiae</i> (Hook.) Dumort.	296
**	<i>Jubula hutchinsiae</i> subsp. <i>australiae</i> Pócs et A.Cairns.....	296
**	<i>Jubula hutchinsiae</i> subsp. <i>bogotensis</i> (Steph.) Verd.	296
***	<i>Jubula hutchinsiae</i> subsp. <i>caucasica</i> Konstant. et Vilnet	296
***	<i>Jubula hutchinsiae</i> subsp. <i>japonica</i> (Steph.) Horik. et Ando.....	296
***	<i>Jubula hutchinsiae</i> subsp. <i>javanica</i> (Steph.) Verd.	296
***	<i>Jubula hutchinsiae</i> subsp. <i>pennsylvanica</i> (Steph.) Verd.	296
**	<i>Jubula kuangsiensis</i> C.Gao et K.C.Chang.....	296
*	<i>Jungermannia amentacea</i> Bertol.....	119
***	<i>Jungermannia atrovirens</i> Dumort.	118
***	<i>Jungermannia borealis</i> Damsh. et Váňa.....	118
*	<i>Jungermannia brasiliensis</i> Raddi.....	119
*	<i>Jungermannia chinensis</i> Osbeck	119
*	<i>Jungermannia cordata</i> Vill.	119
*	<i>Jungermannia crenulata</i> Schmidel.....	119
*	<i>Jungermannia creutzeri</i> Kremer	119
*	<i>Jungermannia digitata</i> C.F.W.Meissn. ex Spreng.	119
*	<i>Jungermannia dubioides</i> H.A.Mill.	119
*	<i>Jungermannia erectii</i> Ajit P.Singh et V.Nath	118
***	<i>Jungermannia exsertifolia</i> Steph.	118
**	<i>Jungermannia exsertifolia</i> subsp. <i>cordifolia</i> (Dumort.) Váňa	118
*	<i>Jungermannia fernandeziana</i> Mitt.	119
***	<i>Jungermannia gollanii</i> Steph.....	118
*	<i>Jungermannia hexagona</i> Schwägr.	119
*	<i>Jungermannia holandriana</i> Kremer.....	119
*	<i>Jungermannia incerta</i> Gottsche.....	119
**	<i>Jungermannia konstantinovae</i> Bakalin et Vilnet.....	118
*	<i>Jungermannia lateriflora</i> Hampe ex Gottsche	119
*	<i>Jungermannia lescuriana</i> Austin.....	119
*	<i>Jungermannia longiretis</i> Besch. et Spruce	119

* <i>Jungermannia mastigophora</i> Spreng.	119
* <i>Jungermannia michelii</i> Mérat	119
* <i>Jungermannia minima</i> Scop.	119
* <i>Jungermannia odorata</i> With.	119
*** <i>Jungermannia ovatotrigona</i> (Steph.) Grolle	118
* <i>Jungermannia peltata</i> Schmidel	119
*** <i>Jungermannia polaris</i> Lindb.	118
*** <i>Jungermannia pumila</i> With.	118
* <i>Jungermannia quadridigitata</i> Griff.	120
* <i>Jungermannia sauteri</i> De Not. ex Rabenh.	120
* <i>Jungermannia secunda</i> Hampe ex Gottsche	120
* <i>Jungermannia stereocaulis</i> Bory	120
* <i>Jungermannia submersa</i> Kremer.	120
* <i>Jungermannia sullivantiana</i> Austin	120
* <i>Jungermannia supina</i> Hoffm.	120
* <i>Jungermannia tenuis</i> Ehrh.	120
* <i>Jungermannia uncifolia</i> Steph.	120
* <i>Jungermannia vernicosa</i> Cass. ex Mérat	120
* <i>Kingiolejeunea guayanensis</i> H.Rob.	509
** <i>Kurzia abbreviata</i> Mizut.	166
** <i>Kurzia abietinella</i> (Herzog) Grolle	166
*** <i>Kurzia bisetula</i> (Steph.) Grolle	166
** <i>Kurzia borneensis</i> Mizut.	166
** <i>Kurzia brasiliensis</i> (Steph.) Grolle.	166
** <i>Kurzia brevicalycina</i> (Steph.) Grolle	166
* <i>Kurzia caduciloba</i> R.M.Schust.	166
** <i>Kurzia calcarata</i> (Steph.) Grolle	165
*** <i>Kurzia capillaris</i> (Sw.) Grolle	164
*** <i>Kurzia capillaris</i> subsp. <i>capillaris</i> var. <i>verrucosa</i> (Steph.) Pócs	165
*** <i>Kurzia capillaris</i> subsp. <i>paramicola</i> Pócs	165
*** <i>Kurzia capillaris</i> subsp. <i>stephanii</i> (Renauld ex Steph.) Pócs	165
** <i>Kurzia compacta</i> (Steph.) Grolle.	165
* <i>Kurzia cucullifolia</i> (Steph.) R.M.Schust.	166
*** <i>Kurzia flagellifera</i> (Steph.) Grolle	166
*** <i>Kurzia fragilifolia</i> R.M.Schust.	166
** <i>Kurzia fragillima</i> (Herzog) Grolle	166
** <i>Kurzia geniculata</i> Mizut.	166
*** <i>Kurzia gonyotricha</i> (Sande Lac.) Grolle.	165
** <i>Kurzia hawaica</i> (C.M.Cooke) Grolle	166
** <i>Kurzia helophila</i> R.M.Schust.	165
** <i>Kurzia helophila</i> var. <i>flaccida</i> R.M.Schust. ex J.J.Engel	165
*** <i>Kurzia hippurioides</i> (Hook.f. et Taylor) Grolle.	165
** <i>Kurzia hippurioides</i> var. <i>ornata</i> J.J.Engel et G.L.Merr.	165
** <i>Kurzia hispida</i> (Steph.) Grolle.	166
** <i>Kurzia irregularis</i> (Steph.) Grolle	165
** <i>Kurzia lateconica</i> (Steph.) Grolle.	167
** <i>Kurzia lineariloba</i> Mizut.	167
*** <i>Kurzia longicaulis</i> Piippo	167
** <i>Kurzia makinoana</i> (Steph.) Grolle.	167
** <i>Kurzia mauiensis</i> (H.A.Mill.) H.A.Mill.	167
** <i>Kurzia mollis</i> (Steph.) J.J.Engel et R.M.Schust.	167
** <i>Kurzia moniliformis</i> J.J.Engel	165

**	<i>Kurzia nemoides</i> (Hook.f. et Taylor) Grolle.....	165
***	<i>Kurzia nivicola</i> (R.M.Schust.) E.D.Cooper	167
***	<i>Kurzia pallescens</i> Grolle	167
**	<i>Kurzia pallida</i> Piippo	167
***	<i>Kurzia pauciflora</i> (Dicks.) Grolle.....	166
***	<i>Kurzia quinquespina</i> J.J.Engel et G.L.Merr.	167
**	<i>Kurzia reversa</i> (Carrington et Pearson) Grolle	167
**	<i>Kurzia saddlensis</i> (Besch. et C.Massal.) Grolle	165
**	<i>Kurzia setiformis</i> (De Not.) J.J.Engel et R.M.Schust.....	167
**	<i>Kurzia sexfida</i> (Steph.) Grolle.....	167
**	<i>Kurzia sinensis</i> K.C.Chang	167
**	<i>Kurzia sylvatica</i> (A.Evans) Grolle	167
***	<i>Kurzia tasmanica</i> (Steph.) E.D.Cooper	167
**	<i>Kurzia tayloriana</i> (H.A.Mill.) H.A.Mill.	167
**	<i>Kurzia tenerima</i> (Mitt.) Grolle.....	168
**	<i>Kurzia touwii</i> N.Kitag.....	168
**	<i>Kurzia trichoclados</i> (Müll.Frib.) Grolle	168
***	<i>Kurzia trilobata</i> (R.M.Schust.) R.M.Schust.	168
**	<i>Kurzia verticellata</i> (Carrington) Grolle.....	168
***	<i>Kymatocalyx africanus</i> Váňa et M.Wigginton.....	74
***	<i>Kymatocalyx dominicensis</i> (Spruce) Váňa.....	74
***	<i>Kymatocalyx madagascariensis</i> (Steph.) Gradst. et Váňa.....	74
***	<i>Kymatocalyx rhizomaticus</i> (Herzog) Gradst. et Váňa	74
***	<i>Kymatolejeunea bartlettii</i> Grolle.....	362
***	<i>Lamellocolea granditexta</i> (Steph.) J.J.Engel	204
***	<i>Lamellocolea integrostia</i> J.J.Engel et Glenný.....	204
***	<i>Leiolejeunea grandiflora</i> A.Evans.....	362
***	<i>Leiomitra breviseta</i> (Steph.) R.M.Schust.....	256
***	<i>Leiomitra capillata</i> Lindb.	256
***	<i>Leiomitra elegans</i> (Lehm.) Hässel.....	256
**	<i>Leiomitra elliottii</i> (Steph.) R.M.Schust.	256
***	<i>Leiomitra flaccida</i> Spruce.....	257
**	<i>Leiomitra hirticaulis</i> R.M.Schust.	257
***	<i>Leiomitra lanata</i> (Hook.) R.M.Schust.	257
**	<i>Leiomitra mastigophoroides</i> R.M.Schust.	257
***	<i>Leiomitra merrillana</i> (Steph.) T.Katag.....	257
***	<i>Leiomitra paraphyllina</i> Spruce	257
**	<i>Leiomitra robusta</i> (Steph.) R.M.Schust.....	257
**	<i>Leiomitra smaragdina</i> Hässel	257
***	<i>Leiomitra tomentosa</i> (Sw.) Lindb.	257
***	<i>Leiosporoceros dussii</i> (Steph.) Hässel.....	41
***	<i>Lejeunea abyssinica</i> (Gola) Cufod.	365
***	<i>Lejeunea acanthogona</i> Spruce.....	365
**	<i>Lejeunea acuminata</i> (Lehm. et Lindenb.) Lehm.....	365
**	<i>Lejeunea acuta</i> Mitt.	365
**	<i>Lejeunea acutata</i> (Steph.) Solari.....	365
***	<i>Lejeunea adpressa</i> Nees	365
***	<i>Lejeunea aethiopica</i> E.W.Jones	365
**	<i>Lejeunea alaskana</i> (R.M.Schust. et Steere) Inoue et Steere.....	365
***	<i>Lejeunea alata</i> Gottsche	365
**	<i>Lejeunea alata</i> var. <i>patriciae</i> Pócs.....	365
***	<i>Lejeunea albescens</i> (Steph.) Mizut.	365

* <i>Lejeunea albiflora</i> Colenso.....	365
** <i>Lejeunea aloba</i> Sande Lac.	365
** <i>Lejeunea alobifolia</i> H.A.Mill.....	365
** <i>Lejeunea amaniensis</i> E.W.Jones	365
** <i>Lejeunea ambigua</i> Lindenb. et Gottsche	365
* <i>Lejeunea amentulifera</i> Steph.	365
** <i>Lejeunea androgyna</i> R.M.Schust	365
* <i>Lejeunea angulifolia</i> Mitt.....	365
*** <i>Lejeunea angusta</i> (Lehm. et Lindenb.) Mont.	366
** <i>Lejeunea anisophylla</i> Mont.	366
*** <i>Lejeunea anomala</i> Lindenb. et Gottsche	366
* <i>Lejeunea antillana</i> Steph.	366
** <i>Lejeunea aphanes</i> Spruce.....	366
* <i>Lejeunea apiabyna</i> (Steph.) Sushil K.Singh.....	381
*** <i>Lejeunea apiculata</i> Sande Lac.	366
* <i>Lejeunea aptrycta</i> Gottsche	381
** <i>Lejeunea aquatica</i> Horik.....	366
** <i>Lejeunea aquatica</i> var. <i>apiculata</i> S.Hatt.	366
** <i>Lejeunea armitii</i> (Steph.) Steph.	366
* <i>Lejeunea asperifolia</i> Steph.	366
*** <i>Lejeunea asperrima</i> Spruce.....	366
** <i>Lejeunea asperula</i> (Steph.) Mizut.....	366
** <i>Lejeunea asprella</i> Spruce	366
** <i>Lejeunea asthenica</i> Spruce.....	381
* <i>Lejeunea atheatostipa</i> Spruce.....	366
** <i>Lejeunea balazsii</i> (Pócs) R.M.Schust.....	380
** <i>Lejeunea barbata</i> (Herzog) R.L.Zhu et M.J.Lai	366
*** <i>Lejeunea bermudiana</i> (A.Evans) R.M.Schust	366
* <i>Lejeunea berhanica</i> Gottsche.....	381
** <i>Lejeunea bidentula</i> Herzog	366
** <i>Lejeunea biformis</i> Gottsche.....	366
** <i>Lejeunea blepharogona</i> Spruce.....	366
** <i>Lejeunea blomquistii</i> R.M.Schust.....	366
*** <i>Lejeunea boliviensis</i> (Steph.) R.L.Zhu et M.E.Reiner	366
** <i>Lejeunea bombonasensis</i> Spruce	381
** <i>Lejeunea bornmuelleri</i> (Steph.) M.E.Reiner	381
** <i>Lejeunea boryana</i> Mont.	366
** <i>Lejeunea brenanii</i> E.W.Jones.....	366
*** <i>Lejeunea calcicola</i> R.M.Schust.	366
** <i>Lejeunea calcicola</i> var. <i>mexicana</i> R.M.Schust.	367
** <i>Lejeunea canariensis</i> (Steph.) Steph.....	367
*** <i>Lejeunea cancellata</i> Nees et Mont.	367
** <i>Lejeunea candida</i> (Pócs) R.M.Schust.	381
** <i>Lejeunea cantabrigiensis</i> E.W.Jones.....	367
*** <i>Lejeunea capensis</i> Gottsche	367
** <i>Lejeunea caracensis</i> Lindenb.....	381
** <i>Lejeunea caripensis</i> Lindenb. et Gottsche	381
* <i>Lejeunea caroliniana</i> Austin.....	367
*** <i>Lejeunea catinulifera</i> Spruce	367
*** <i>Lejeunea caulicalyx</i> (Steph.) M.E.Reiner et Goda	367
*** <i>Lejeunea cavifolia</i> (Ehrh.) Lindb.....	367
** <i>Lejeunea caviloba</i> (Steph.) Besch.	367

***	<i>Lejeunea cerina</i> (Lehm. et Lindenb.) Lehm. et Lindenb.....	367
**	<i>Lejeunea chaishanensis</i> S.H.Lin.....	367
**	<i>Lejeunea chamissonis</i> Lindenb.....	381
**	<i>Lejeunea chimbrazensis</i> Spruce.....	381
**	<i>Lejeunea cladogyna</i> A.Evans.....	367
**	<i>Lejeunea clavata</i> Lindenb.....	367
**	<i>Lejeunea claviformis</i> Lindenb. ex Steph.....	367
**	<i>Lejeunea cochleata</i> Spruce.....	367
**	<i>Lejeunea cocoes</i> Mitt.....	367
***	<i>Lejeunea colensoana</i> (Steph.) M.A.M.Renner.....	367
***	<i>Lejeunea combuensis</i> O.S.Moura, Ilk.-Borg. et M.E.Reiner.....	381
**	<i>Lejeunea compacta</i> (Steph.) Steph.....	367
**	<i>Lejeunea concava</i> Lindenb. et Gottsche.....	381
**	<i>Lejeunea concinnula</i> Spruce et Steph.....	367
***	<i>Lejeunea conformis</i> Nees et Mont.....	381
**	<i>Lejeunea connatistipula</i> (Steph.) Steph.....	367
**	<i>Lejeunea contracta</i> Mizut.....	368
**	<i>Lejeunea controversa</i> Gottsche.....	368
**	<i>Lejeunea convexiloba</i> M.L.So et R.L.Zhu.....	368
**	<i>Lejeunea corcovadae</i> (Steph.) Bischl.....	368
**	<i>Lejeunea cordiflora</i> Spruce.....	368
**	<i>Lejeunea cordistipula</i> Lindenb. et Gottsche.....	381
**	<i>Lejeunea corralensis</i> A.Evans.....	368
***	<i>Lejeunea corynantha</i> Spruce.....	368
**	<i>Lejeunea crassiretis</i> Mitt.....	368
***	<i>Lejeunea cristulata</i> (Steph.) M.E.Reiner et Goda.....	368
***	<i>Lejeunea cristuliflora</i> (Steph.) M.E.Reiner et Goda.....	368
**	<i>Lejeunea curviloba</i> Steph.....	380
**	<i>Lejeunea cuspidistipula</i> (Steph.) Steph. ex Watts.....	368
**	<i>Lejeunea cyanomontana</i> R.M.Schust.....	368
**	<i>Lejeunea cyanophora</i> R.M.Schust.....	368
**	<i>Lejeunea cyathearum</i> E.W.Jones.....	368
***	<i>Lejeunea cyathophora</i> Mitt.....	368
**	<i>Lejeunea cyrtotis</i> Spruce.....	381
***	<i>Lejeunea debilis</i> (Lehm. et Lindenb.) Nees et Mont.....	381
**	<i>Lejeunea denticalyx</i> (Steph.) Steph.....	368
**	<i>Lejeunea denticuspis</i> (Steph.) Mizut.....	368
**	<i>Lejeunea denudata</i> (Pearson) J.J.Engel.....	368
***	<i>Lejeunea deplanata</i> Nees.....	368
**	<i>Lejeunea deplanata</i> var. <i>cuspidata</i> (Steph.) M.E.Reiner.....	368
**	<i>Lejeunea devendrae</i> (Sushil K.Singh) P.K.Verma et K.K.Rawat.....	382
**	<i>Lejeunea diaphana</i> Spruce.....	368
**	<i>Lejeunea dictyocalyx</i> Spruce.....	382
**	<i>Lejeunea dimorpha</i> T.Kodama.....	369
**	<i>Lejeunea dipterocarpa</i> E.W.Jones.....	369
**	<i>Lejeunea dipterota</i> (Eifrig) G.E.Lee.....	382
***	<i>Lejeunea discreta</i> Lindenb.....	369
*	<i>Lejeunea disjecta</i> Spruce.....	369
**	<i>Lejeunea diversicuspis</i> Spruce.....	369
***	<i>Lejeunea drehwaldii</i> Heinrichs et Schäf.-Verw.....	382
**	<i>Lejeunea drummondii</i> Taylor.....	382
**	<i>Lejeunea duncaniae</i> (Sim) M.E.Reiner.....	382

**	<i>Lejeunea ecarinata</i> (Steph.) J.M.Coult., Barnes et Arthur	369
**	<i>Lejeunea eckloniana</i> Lindenb.	369
**	<i>Lejeunea edentata</i> L.Söderstr.	382
**	<i>Lejeunea eifrigii</i> Mizut.	369
*	<i>Lejeunea elegans</i> Gottsche	385
*	<i>Lejeunea elongella</i> Gottsche	369
*	<i>Lejeunea emarginuliflora</i> Gottsche ex Steph.	382
*	<i>Lejeunea epibrya</i> Taylor	382
***	<i>Lejeunea erostrata</i> M.E.Reiner et Goda	369
**	<i>Lejeunea estrellamontana</i> M.A.M.Renner et Pócs	382
***	<i>Lejeunea exilis</i> (Reinw., Blume et Nees) Grolle	369
**	<i>Lejeunea exilis</i> var. <i>abnormis</i> (Herzog) G.E.Lee	369
**	<i>Lejeunea falcata</i> (Pócs et J.Eggers) Pócs	381
*	<i>Lejeunea fawcettiae</i> D.J.Carr	382
**	<i>Lejeunea fernandeziana</i> S.W.Arnell	369
**	<i>Lejeunea firma</i> Mitt.	369
**	<i>Lejeunea fissistipula</i> (Steph.) Steph.	369
**	<i>Lejeunea flaccida</i> Lindenb. et Gottsche	382
**	<i>Lejeunea flagellaris</i> Spruce	369
***	<i>Lejeunea flava</i> (Sw.) Nees	369
**	<i>Lejeunea flava</i> subsp. <i>moorei</i> (Lindb.) R.M.Schust.	369
**	<i>Lejeunea flava</i> subsp. <i>orientalis</i> R.M.Schust.	369
**	<i>Lejeunea flava</i> var. <i>pellucida</i> Lindenb. et Gottsche	370
**	<i>Lejeunea flava</i> subsp. <i>tabularis</i> (Spreng.) S.W.Arnell	370
**	<i>Lejeunea flavida</i> Mitt.	382
***	<i>Lejeunea flavovirens</i> Ångstr.	370
**	<i>Lejeunea fleischeri</i> (Steph.) Mizut.	370
**	<i>Lejeunea florida</i> Spruce	382
**	<i>Lejeunea floridana</i> A.Evans	370
***	<i>Lejeunea fulfordiae</i> (Jovet-Ast) R.L.Zhu	370
**	<i>Lejeunea fulva</i> Spruce	382
**	<i>Lejeunea fusagasugana</i> Gottsche	370
**	<i>Lejeunea galeata</i> Spruce	370
**	<i>Lejeunea gayana</i> Gottsche	370
**	<i>Lejeunea gibbiloba</i> (Steph.) H.A.Mill.	370
***	<i>Lejeunea glaucescens</i> Gottsche	370
**	<i>Lejeunea glaucescens</i> var. <i>acrogyna</i> R.M.Schust.	370
*	<i>Lejeunea glaucescens</i> var. <i>obsoleta</i> R.M.Schust.	370
**	<i>Lejeunea globosiflora</i> (Steph.) Steph.	370
**	<i>Lejeunea gomphocalyx</i> Spruce	370
**	<i>Lejeunea gotscheana</i> Lindenb.	382
**	<i>Lejeunea gracilicaulis</i> Spruce	370
**	<i>Lejeunea gracilipes</i> (Taylor) Spruce	370
**	<i>Lejeunea gracilis</i> Steph.	370
**	<i>Lejeunea gradsteiniana</i> Pócs	370
**	<i>Lejeunea gradsteinii</i> G.E.Lee, Damanhuri et Latiff	370
**	<i>Lejeunea graminicolor</i> Spruce	382
***	<i>Lejeunea grolleana</i> (Bernecker) R.L.Zhu et W.Ye	382
*	<i>Lejeunea grossecristata</i> (Steph.) E.W.Jones	370
***	<i>Lejeunea grossiretis</i> (Steph.) M.E.Reiner et Goda	371
**	<i>Lejeunea grossistipula</i> Steph.	371
***	<i>Lejeunea grossitexta</i> (Steph.) M.E.Reiner et Goda	371

* <i>Lejeunea grossiuscula</i> Gottsche ex Steph.	371
** <i>Lejeunea hahnii</i> Solari	371
* <i>Lejeunea haitica</i> Nees et Mont.	371
** <i>Lejeunea hawaikiana</i> M.A.M.Renner et de Lange	371
** <i>Lejeunea helena</i> e Pearson	371
** <i>Lejeunea helmsiana</i> (Steph.) Steph.	371
*** <i>Lejeunea hepaticola</i> (Steph.) Steph.	371
*** <i>Lejeunea herminieri</i> (Steph.) R.L.Zhu	382
** <i>Lejeunea heterocheila</i> Taylor	383
** <i>Lejeunea hibernica</i> Bischl., H.A.Mill. et Bonner ex Grolle.	371
* <i>Lejeunea hieronymii</i> Spruce	385
** <i>Lejeunea hodgsoniana</i> Grolle ex R.J.Lewington, Bever. et M.A.M.Renner	371
** <i>Lejeunea howeana</i> Grolle	371
** <i>Lejeunea hui</i> R.L.Zhu	371
** <i>Lejeunea humefacta</i> Spruce	371
** <i>Lejeunea hyalina</i> (Steph.) L.Söderstr. et A.Hagborg	371
* <i>Lejeunea hygrophila</i> Gottsche	383
** <i>Lejeunea ibadana</i> A.J.Harr. et E.W.Jones	371
** <i>Lejeunea immersa</i> Spruce	371
** <i>Lejeunea increscens</i> Spruce	371
* <i>Lejeunea inflatiloba</i> (Steph.) H.A.Mill., Bonner et Bischl.	371
*** <i>Lejeunea inflexiloba</i> Prantl	372
*** <i>Lejeunea intricata</i> Prantl	372
*** <i>Lejeunea isophylla</i> E.W.Jones	372
** <i>Lejeunea japonica</i> Mitt.	372
** <i>Lejeunea jardinii</i> Spruce	372
** <i>Lejeunea julacea</i> Steph.	372
*** <i>Lejeunea jungneri</i> (Steph.) Steph.	372
** <i>Lejeunea juruana</i> Gradst. et M.E.Reiner	380
** <i>Lejeunea kashyapii</i> M.Dey, D.K.Singh et D.Singh	372
* <i>Lejeunea kilimandjarensis</i> Steph.	372
** <i>Lejeunea kinabalensis</i> Mizut.	372
** <i>Lejeunea kodamae</i> Ikegami et Inoue	372
** <i>Lejeunea konosensis</i> Mizut.	372
** <i>Lejeunea koponenii</i> (Pócs et J.Eggers) Pócs	381
** <i>Lejeunea kuerschmeriana</i> Pócs	372
*** <i>Lejeunea laeta</i> (Lehm. et Lindenb.) Lehm. et Lindenb.	372
*** <i>Lejeunea laetevirens</i> Nees et Mont.	380
** <i>Lejeunea laevicalyx</i> Gottsche	383
** <i>Lejeunea laii</i> R.L.Zhu	372
*** <i>Lejeunea lamacerina</i> (Steph.) Schiffn.	372
** <i>Lejeunea lamacerina</i> subsp. <i>gemminata</i> R.M.Schust.	372
** <i>Lejeunea latilobula</i> (Herzog) R.L.Zhu et M.L.So	372
* <i>Lejeunea laxa</i> (Nees) Lindenb.	383
** <i>Lejeunea leiantha</i> Spruce	383
** <i>Lejeunea leptalea</i> Spruce	372
** <i>Lejeunea leptoscypha</i> Spruce	383
* <i>Lejeunea leratii</i> (Steph.) Mizut.	372
** <i>Lejeunea leucosis</i> Besch. et Spruce	373
* <i>Lejeunea litoralis</i> Steph.	373
** <i>Lejeunea lomana</i> E.W.Jones	373
** <i>Lejeunea longicollis</i> S.W.Arnell	373

**	<i>Lejeunea longilobula</i> Pócs	373
**	<i>Lejeunea lowriana</i> Steph.....	373
***	<i>Lejeunea lumbricoides</i> (Nees) Nees	373
**	<i>Lejeunea lunatigastria</i> Tixier.....	373
***	<i>Lejeunea lusoria</i> (Lindenb. et Gottsche) Steph.....	383
**	<i>Lejeunea luzonensis</i> (Steph.) R.L.Zhu et M.J.Lai	383
**	<i>Lejeunea lyratiflora</i> Prantl.....	373
**	<i>Lejeunea macrorhyncha</i> Spruce.....	383
**	<i>Lejeunea magobukui</i> Mizut.....	373
**	<i>Lejeunea malangensis</i> (Herzog) R.L.Zhu et Y.M.Wei.....	373
**	<i>Lejeunea mandonii</i> (Steph.) Müll.Frib.....	373
**	<i>Lejeunea marasmodes</i> Spruce.....	383
***	<i>Lejeunea masoalae</i> Pócs.....	373
**	<i>Lejeunea massalongoana</i> (Schiffn. ex P.Syd) Solari	373
**	<i>Lejeunea megalantha</i> Spruce	373
**	<i>Lejeunea mehrana</i> M.Dey, D.K.Singh et D.Singh	373
***	<i>Lejeunea meridensis</i> Ilk.-Borg.....	373
**	<i>Lejeunea micholitzii</i> Mizut.	373
**	<i>Lejeunea microloba</i> Taylor.....	373
***	<i>Lejeunea mimula</i> Hürl.....	373
***	<i>Lejeunea minutiloba</i> A.Evans.....	373
**	<i>Lejeunea minutiloba</i> var. <i>heterogyna</i> R.M.Schust.....	373
**	<i>Lejeunea mizutanii</i> Grolle	373
**	<i>Lejeunea molkenboeriana</i> Sande Lac.....	373
***	<i>Lejeunea monimiae</i> (Steph.) Steph.....	374
**	<i>Lejeunea morobensis</i> (Grolle) M.A.M.Renner et Pócs.....	383
***	<i>Lejeunea multidentata</i> M.E.Reiner et Mustelier.....	374
*	<i>Lejeunea musae</i> (Spreng.) Gottsche, Lindenb. et Nees	374
**	<i>Lejeunea musicola</i> Spruce	374
*	<i>Lejeunea musicola</i> var. <i>palnicola</i> Spruce	374
**	<i>Lejeunea neelgherriana</i> Gottsche	374
**	<i>Lejeunea nemoralis</i> Gottsche.....	374
**	<i>Lejeunea nepalensis</i> Steph.	374
*	<i>Lejeunea nesiotica</i> Besch. et Spruce	374
**	<i>Lejeunea neumanniana</i> Nees.....	374
**	<i>Lejeunea nietneri</i> (Steph.) Steph. ex Watts.....	374
**	<i>Lejeunea notata</i> Gottsche	374
**	<i>Lejeunea novoguineensis</i> Schiffn.	383
**	<i>Lejeunea nymannii</i> Steph.....	374
**	<i>Lejeunea obfusca</i> Mitt.	374
**	<i>Lejeunea obidensis</i> Spruce	374
*	<i>Lejeunea obscura</i> Mitt.....	374
***	<i>Lejeunea obtusangula</i> Spruce.....	383
**	<i>Lejeunea obtusata</i> Gottsche.....	374
*	<i>Lejeunea oerstediana</i> Lindenb. et Hampe.....	383
**	<i>Lejeunea okomuensis</i> E.W.Jones.....	374
***	<i>Lejeunea oligoclada</i> Spruce.....	374
***	<i>Lejeunea oracula</i> M.A.M.Renner	374
**	<i>Lejeunea osculatiana</i> De Not.	374
**	<i>Lejeunea otiana</i> S.Hatt.	374
**	<i>Lejeunea ovalifolia</i> Steph.	375
**	<i>Lejeunea pacifica</i> Mont.....	375

**	<i>Lejeunea pallescens</i> Mitt.	375
**	<i>Lejeunea pallida</i> Lindenb. et Gottsche	375
**	<i>Lejeunea pallidivirens</i> S.Hatt.	380
*	<i>Lejeunea pallidissima</i> Gola	375
***	<i>Lejeunea papilionacea</i> Prantl	375
**	<i>Lejeunea papuana</i> (Pócs) R.M.Schust.	381
**	<i>Lejeunea paraensis</i> Spruce	383
*	<i>Lejeunea paratropa</i> Spruce	375
**	<i>Lejeunea parva</i> (S.Hatt.) Mizut.	380
**	<i>Lejeunea parviloba</i> Ångstr.	383
**	<i>Lejeunea patagonica</i> (Steph.) Steph.	375
**	<i>Lejeunea patens</i> Lindb.	375
***	<i>Lejeunea patersonii</i> (Steph.) Steph.	375
***	<i>Lejeunea patriciae</i> Schäf.-Verw.	375
***	<i>Lejeunea paucidentata</i> (Steph.) Grolle	375
***	<i>Lejeunea pectinella</i> Mizut.	375
**	<i>Lejeunea perigonialis</i> Gottsche	375
***	<i>Lejeunea perpapillosa</i> M.E.Reiner et K.C.Pôrto	375
*	<i>Lejeunea pertusa</i> (Corda ex Nees et Mont.) Gottsche, Lindenb. et Nees	375
*	<i>Lejeunea pfeleidereri</i> Sushil K.Singh	383
***	<i>Lejeunea phyllobola</i> Nees et Mont.	375
*	<i>Lejeunea phyllobola</i> var. <i>turgidula</i> Spruce	375
***	<i>Lejeunea planiloba</i> A.Evans	375
**	<i>Lejeunea polilloensis</i> Steph.	375
***	<i>Lejeunea polyantha</i> Mont.	380
**	<i>Lejeunea praetervisa</i> Steph.	375
**	<i>Lejeunea primordialis</i> (Hook.f. et Taylor) Gottsche, Lindenb. et Nees	375
**	<i>Lejeunea princeps</i> (Steph.) Mizut.	376
***	<i>Lejeunea prionoides</i> Spruce	380
*	<i>Lejeunea proboscidea</i> Gottsche	385
**	<i>Lejeunea procumbens</i> Mitt.	376
*	<i>Lejeunea prominula</i> Gottsche	383
**	<i>Lejeunea propagulifera</i> Gradst.	376
**	<i>Lejeunea pteridis</i> Besch. et Spruce	376
***	<i>Lejeunea pterigonia</i> (Lehm. et Lindenb.) Mont.	384
***	<i>Lejeunea ptosimophylla</i> C.Massal.	376
***	<i>Lejeunea puiggariana</i> Steph.	376
***	<i>Lejeunea pulverulenta</i> (Steph.) M.E.Reiner	376
***	<i>Lejeunea pulvinata</i> Nees et Mont.	376
**	<i>Lejeunea quinqueumbonata</i> Spruce	384
**	<i>Lejeunea quinqueumbonata</i> var. <i>rotundata</i> (Herzog) Sushil K.Singh	384
***	<i>Lejeunea raddiana</i> Lindenb.	376
**	<i>Lejeunea radicans</i> Lindenb. et Gottsche	376
**	<i>Lejeunea ramosissima</i> Steph.	376
***	<i>Lejeunea ramulosa</i> Spruce	380
**	<i>Lejeunea rara</i> Steph.	376
*	<i>Lejeunea ravenelii</i> Austin	376
**	<i>Lejeunea recurva</i> M.E.Reiner	376
***	<i>Lejeunea reflexistipula</i> (Lehm. et Lindenb.) Lehm. et Lindenb.	376
**	<i>Lejeunea reflexistipula</i> var. <i>costaricensis</i> (Steph.) M.E.Reiner	376
***	<i>Lejeunea reinerae</i> Ilk.-Borg.	376
**	<i>Lejeunea remotifolia</i> Hampe ex Steph.	384

**	<i>Lejeunea resupinata</i> (Steph.) Steph.	377
**	<i>Lejeunea reticulata</i> Herzog	377
***	<i>Lejeunea rhigophila</i> M.A.M.Renner	377
**	<i>Lejeunea rhodesiae</i> (Sim) R.M.Schust.	377
***	<i>Lejeunea rionegrensis</i> Spruce	377
**	<i>Lejeunea riparia</i> Mitt.	377
*	<i>Lejeunea rothii</i> (Schwägr.) Gottsche, Lindenb. et Nees	377
***	<i>Lejeunea rotundifolia</i> Mitt.	377
***	<i>Lejeunea ruthii</i> (A.Evans) R.M.Schust.	384
**	<i>Lejeunea ruthii</i> var. <i>alata</i> R.M.Schust.	384
**	<i>Lejeunea sanctae-helenae</i> M.Wigginton	377
*	<i>Lejeunea scabriflora</i> Loitl.	385
**	<i>Lejeunea schusteri</i> Grolle	377
**	<i>Lejeunea semiscabrida</i> Gottsche	377
**	<i>Lejeunea semperi</i> Steph.	377
**	<i>Lejeunea seriata</i> Lindenb. et Gottsche	377
**	<i>Lejeunea sessiliflora</i> (Steph.) Grolle	377
**	<i>Lejeunea setacea</i> (Steph.) Steph.	377
**	<i>Lejeunea setiloba</i> Spruce	377
**	<i>Lejeunea sharpii</i> (R.M.Schust.) R.M.Schust.	377
**	<i>Lejeunea siccata</i> Spruce	377
**	<i>Lejeunea sikorae</i> (Steph.) Steph.	384
**	<i>Lejeunea silvatica</i> Gottsche	378
**	<i>Lejeunea smaragdina</i> Besch. et Spruce	378
***	<i>Lejeunea soae</i> R.L.Zhu, Y.M.Wei, L.Söderstr., A.Hagborg et von Konrat	378
**	<i>Lejeunea solanicola</i> Spruce	378
***	<i>Lejeunea sordida</i> (Nees) Nees	378
***	<i>Lejeunea spiniloba</i> Lindenb. et Gottsche	378
**	<i>Lejeunea spinuliflora</i> Spruce	378
**	<i>Lejeunea sporadica</i> Besch. et Spruce	378
*	<i>Lejeunea squarrosa</i> (Steph.) Steph.	378
**	<i>Lejeunea squarrosula</i> (Herzog) Solari	378
**	<i>Lejeunea srivastavae</i> P.K.Verma et K.K.Rawat	384
**	<i>Lejeunea stenodentata</i> M.A.M.Renner et Pócs	384
*	<i>Lejeunea stephaniana</i> Mizut.	378
**	<i>Lejeunea stevensiana</i> (Steph.) Mizut.	378
**	<i>Lejeunea subacuta</i> Mitt.	378
*	<i>Lejeunea subaquatica</i> Schiffn.	378
*	<i>Lejeunea subbifida</i> Steph. ex Duss	378
***	<i>Lejeunea subelobata</i> Carrington et Pearson	384
**	<i>Lejeunea subigiensis</i> (Steph.) Steph.	378
**	<i>Lejeunea subolivacea</i> Mizut.	378
**	<i>Lejeunea subplana</i> (Steph.) C.J.Bastos	378
**	<i>Lejeunea subrufula</i> Spruce	378
**	<i>Lejeunea subsessilis</i> Spruce	378
***	<i>Lejeunea subspathulata</i> Spruce	379
**	<i>Lejeunea succulenta</i> Herzog	379
**	<i>Lejeunea suffruticola</i> Spruce	379
***	<i>Lejeunea sulphurea</i> (Lehm. et Lindenb.) Spruce	384
**	<i>Lejeunea syoshii</i> Inoue	379
***	<i>Lejeunea talamancensis</i> M.E.Reiner et Schäf.-Verw.	379
***	<i>Lejeunea tamasii</i> M.E.Reiner, N.Salazar et C.Chung	379

**	<i>Lejeunea tamaspocsi</i> G.E.Lee	379
***	<i>Lejeunea tapajosensis</i> Spruce.....	379
**	<i>Lejeunea tarapotensis</i> Spruce	379
**	<i>Lejeunea tenella</i> Taylor	379
**	<i>Lejeunea tenera</i> (Sw.) Gottsche, Lindenb. et Nees	380
**	<i>Lejeunea terricola</i> Spruce	384
**	<i>Lejeunea thallophora</i> (Eifrig) Gradst.	379
***	<i>Lejeunea tonduzana</i> (Steph.) M.E.Reiner	379
***	<i>Lejeunea topoensis</i> Gradst. et M.E.Reiner.....	380
**	<i>Lejeunea touwii</i> (Pócs) R.M.Schust.	381
**	<i>Lejeunea trachygona</i> Spruce	379
***	<i>Lejeunea trinitensis</i> Lindenb.	379
*	<i>Lejeunea trochantha</i> Spruce	385
**	<i>Lejeunea trukensis</i> H.A.Mill. et Bonner	379
**	<i>Lejeunea tuberculosa</i> Steph.	379
**	<i>Lejeunea tumida</i> Mitt.	379
**	<i>Lejeunea tunquiniensis</i> M.E.Reiner et Drehwald.....	365
**	<i>Lejeunea uleana</i> (Steph.) Steph.....	379
***	<i>Lejeunea umbilicata</i> (Nees) Nees	379
**	<i>Lejeunea urbanii</i> (Steph.) Steph.	384
**	<i>Lejeunea utriculata</i> (Steph.) Mizut.	379
**	<i>Lejeunea venezuelana</i> (R.M.Schust.) R.L.Zhu et W.Ye.....	384
**	<i>Lejeunea vesicata</i> Mitt.	379
***	<i>Lejeunea villaumei</i> (Steph.) Grolle.....	379
**	<i>Lejeunea viridis</i> R.M.Schust. ex L.Söderstr. et A.Hagborg.....	384
**	<i>Lejeunea vojtkoi</i> Pócs.....	379
**	<i>Lejeunea vulgariformis</i> Gottsche	379
**	<i>Lejeunea watsiana</i> (Steph.) H.A.Mill., Bonner et Bischl.	380
*	<i>Lejeunea wichurae</i> (Steph.) Steph.	380
**	<i>Lejeunea wightii</i> Lindenb.	380
***	<i>Lejeunea xiphophylla</i> (Herzog) M.E.Reiner.....	380
*	<i>Lejeunea zacuapana</i> (Steph.) Prantl	385
***	<i>Lembidium berggrenii</i> Herzog.....	168
***	<i>Lembidium longifolium</i> R.M.Schust.	168
***	<i>Lembidium nutans</i> (Hook.f. et Taylor) Mitt.....	168
**	<i>Lembidium nutans</i> var. <i>flagelliferum</i> E.A.Hodgs.	168
***	<i>Lepicolea attenuata</i> (Mitt.) Steph.....	142
***	<i>Lepicolea magellanica</i> (Gola) Solari.....	142
***	<i>Lepicolea norrisii</i> Piippo	142
***	<i>Lepicolea ochroleuca</i> (Spreng.) Spruce	142
***	<i>Lepicolea pruinosa</i> (Taylor) Spruce	142
***	<i>Lepicolea ramentifissa</i> Herzog	142
***	<i>Lepicolea rara</i> (Steph.) Grolle.....	142
***	<i>Lepicolea rigida</i> (De Not.) E.B.Scott	142
***	<i>Lepicolea scolopendra</i> (Hook.) Dumort. ex Trevis.	142
***	<i>Lepicolea yakusimensis</i> (S.Hatt.) S.Hatt.....	142
***	<i>Lepidogyna hodgsoniae</i> (Grolle) R.M.Schust.....	416
***	<i>Lepidogyna menziesii</i> (Hook.) R.M.Schust.....	416
***	<i>Lepidolaena berggrenii</i> E.A.Hodgs.	416
**	<i>Lepidolaena brachyclada</i> (Lehm.) Trevis.	416
***	<i>Lepidolaena clavigera</i> (Hook.) Dumort. ex Trevis.....	416
***	<i>Lepidolaena novae-zelandiae</i> (E.A.Hodgs. et S.W.Arnell) von Konrat, L.Söderstr. et A.Hagborg.....	416

***	<i>Lepidolaena palpebrifolia</i> (Hook.) Dumort. ex Trevis	416
***	<i>Lepidolaena reticulata</i> (Hook.f. et Taylor) Trevis	416
***	<i>Lepidolaena taylorii</i> (Gottsche) Trevis	417
**	<i>Lepidolejeunea auriculata</i> Schäf.-Verw. et Heinrichs	391
***	<i>Lepidolejeunea bidentula</i> (Steph.) R.M.Schust.	391
***	<i>Lepidolejeunea bidentula</i> var. <i>novae-caledoniae</i> Piippo	391
***	<i>Lepidolejeunea borneensis</i> (Steph.) R.M.Schust.	392
***	<i>Lepidolejeunea cordifissa</i> (Taylor) M.E.Reiner	391
**	<i>Lepidolejeunea cuspidata</i> (Gottsche) Heinrichs et Schäf.-Verw.	392
***	<i>Lepidolejeunea delessertii</i> (Nees et Mont.) Grolle	392
***	<i>Lepidolejeunea eluta</i> (Nees) R.M.Schust.	392
***	<i>Lepidolejeunea falcata</i> (Herzog) R.M.Schust.	391
***	<i>Lepidolejeunea graeffei</i> (J.B.Jack et Steph.) R.M.Schust.	392
***	<i>Lepidolejeunea grossepapulosa</i> (Steph.) Piippo	391
***	<i>Lepidolejeunea integristipula</i> (J.B.Jack et Steph.) R.M.Schust.	392
***	<i>Lepidolejeunea involuta</i> (Gottsche) Grolle	391
***	<i>Lepidolejeunea longilobula</i> (Amakawa) Xiao L.He	392
***	<i>Lepidolejeunea serrulata</i> (Steph.) Grolle	392
***	<i>Lepidolejeunea sullivantii</i> (Gottsche) M.E.Reiner	392
**	<i>Lepidozia acantha</i> J.J.Engel	169
**	<i>Lepidozia aequiloba</i> Steph.	170
**	<i>Lepidozia africana</i> Steph.	170
***	<i>Lepidozia alstonii</i> Fulford	170
**	<i>Lepidozia ambigua</i> De Not.	170
**	<i>Lepidozia andicola</i> Beauverd.	170
**	<i>Lepidozia appressifolia</i> Steph.	170
***	<i>Lepidozia armata</i> Steph.	170
**	<i>Lepidozia asymmetrica</i> Steph.	170
**	<i>Lepidozia auriculata</i> Mitt.	170
**	<i>Lepidozia australis</i> (Lehm. et Lindenb.) Mitt.	170
**	<i>Lepidozia bidens</i> J.J.Engel	170
**	<i>Lepidozia biloba</i> Herzog	170
***	<i>Lepidozia bisbifida</i> Steph.	170
**	<i>Lepidozia borneensis</i> Steph.	170
**	<i>Lepidozia bragginsiana</i> E.D.Cooper et M.A.M.Renner	170
*	<i>Lepidozia brasiliensis</i> Steph.	170
**	<i>Lepidozia brevidentata</i> Mitt.	170
**	<i>Lepidozia brevifolia</i> Mitt.	170
**	<i>Lepidozia brevifolia</i> var. <i>planifolia</i> Schiffn.	170
**	<i>Lepidozia brotheri</i> Steph.	170
**	<i>Lepidozia buffalona</i> Steph.	170
**	<i>Lepidozia bursifera</i> S.Hatt. et Grolle	170
**	<i>Lepidozia caespitosa</i> Spruce	170
**	<i>Lepidozia caledonica</i> Steph.	170
**	<i>Lepidozia caledonica</i> var. <i>tenuisecta</i> Hürl.	170
*	<i>Lepidozia ceramensis</i> Herzog	170
**	<i>Lepidozia cherydrion</i> Hürl.	170
**	<i>Lepidozia chiloensis</i> Steph.	170
**	<i>Lepidozia chordulifera</i> Taylor	171
***	<i>Lepidozia cladorhiza</i> (Reinw., Blume et Nees) Nees	171
***	<i>Lepidozia coilophylla</i> Taylor	171
**	<i>Lepidozia coilophylla</i> var. <i>apiculiloba</i> (Steph.) Fulford	171

**	<i>Lepidozia communis</i> Steph.....	171
***	<i>Lepidozia concinna</i> Colenso.....	171
**	<i>Lepidozia cordata</i> Lindenb.	171
*	<i>Lepidozia cordistipula</i> Steph.	171
**	<i>Lepidozia crassitexta</i> Steph.....	171
***	<i>Lepidozia cupressina</i> (Sw.) Lindenb.	171
**	<i>Lepidozia cupressina</i> subsp. <i>natalensis</i> (Steph.) Pócs	171
*	<i>Lepidozia cupressina</i> subsp. <i>pinnata</i> (Hook.) Pócs.....	171
*	<i>Lepidozia cupressina</i> subsp. <i>quinquefida</i> (Steph.) Pócs.....	171
**	<i>Lepidozia decaisnei</i> Steph.....	171
**	<i>Lepidozia dendritica</i> Spruce.....	171
**	<i>Lepidozia densa</i> Herzog.....	171
***	<i>Lepidozia digitata</i> Herzog.....	171
***	<i>Lepidozia eenii</i> S.W.Arnell	171
**	<i>Lepidozia elobata</i> R.M.Schust.....	171
**	<i>Lepidozia erosa</i> Steph.	171
**	<i>Lepidozia erronea</i> Herzog	171
**	<i>Lepidozia everettii</i> Steph.....	172
*	<i>Lepidozia everettii</i> var. <i>javensis</i> Herzog.....	172
**	<i>Lepidozia fauriana</i> Steph.....	172
***	<i>Lepidozia ferdinandi-muelleri</i> Steph.....	172
**	<i>Lepidozia filamentosa</i> (Lehm. et Lindenb.) Lehm. et Lindenb.....	172
**	<i>Lepidozia fistulosa</i> Mitt.....	172
**	<i>Lepidozia flexuosa</i> Mitt.	172
**	<i>Lepidozia fugiensis</i> Steph.	172
**	<i>Lepidozia fugax</i> J.J.Engel.....	172
*	<i>Lepidozia gedena</i> Steph.....	172
***	<i>Lepidozia glaucescens</i> J.J.Engel	172
***	<i>Lepidozia glaucophylla</i> (Hook.f. et Taylor) Gottsche, Lindenb. et Nees	172
**	<i>Lepidozia grandifolia</i> Steph.	172
*	<i>Lepidozia griseola</i> Herzog	172
**	<i>Lepidozia groenlandica</i> Lehm.....	172
**	<i>Lepidozia gwamii</i> Piippo	172
**	<i>Lepidozia hampeana</i> Lindenb.	172
***	<i>Lepidozia haskarliana</i> (Gottsche, Lindenb. et Nees) Steph.	172
**	<i>Lepidozia hastatistipula</i> Steph.....	172
*	<i>Lepidozia hexiloba</i> Pearson	176
***	<i>Lepidozia hirta</i> Steph.	172
***	<i>Lepidozia holorbiza</i> (Reinw., Blume et Nees) Nees.....	172
**	<i>Lepidozia holorbiza</i> var. <i>laxa</i> (Nees) Schiffn.....	172
**	<i>Lepidozia inaequalis</i> (Lehm. et Lindenb.) Lehm. et Lindenb.	172
***	<i>Lepidozia incurvata</i> Lindenb.	172
**	<i>Lepidozia infuscata</i> Mitt.	173
**	<i>Lepidozia integrifolia</i> Doei.....	173
***	<i>Lepidozia jamaicensis</i> Steph.....	173
**	<i>Lepidozia kashyapii</i> D.Singh et D.K.Singh	173
**	<i>Lepidozia kinabaluensis</i> Mizut.	173
***	<i>Lepidozia kirkii</i> Steph.	173
**	<i>Lepidozia lacerifolia</i> Steph.....	173
***	<i>Lepidozia laevifolia</i> (Hook.f. et Taylor) Gottsche, Lindenb. et Nees.....	173
**	<i>Lepidozia laevifolia</i> var. <i>acutiloba</i> J.J.Engel	173
**	<i>Lepidozia laevifolia</i> var. <i>alpina</i> R.M.Schust. et J.J.Engel.....	173

**	<i>Lepidozia lindigiana</i> Steph.	173
**	<i>Lepidozia loheri</i> Steph.	173
**	<i>Lepidozia longifolia</i> Steph.	173
**	<i>Lepidozia loriana</i> Steph.	173
***	<i>Lepidozia macrocolea</i> Spruce	173
*	<i>Lepidozia massartiana</i> Schiffn. ex Steph.	173
***	<i>Lepidozia microphylla</i> (Hook.) Lindenb.	173
**	<i>Lepidozia microstipula</i> Steph.	173
**	<i>Lepidozia minima</i> Steph.	173
*	<i>Lepidozia minor</i> (Gottsche, Lindenb. et Nees) Solari	173
**	<i>Lepidozia miqueliana</i> Sande Lac	173
**	<i>Lepidozia montana</i> Steph.	173
*	<i>Lepidozia newtonii</i> Steph.	173
*	<i>Lepidozia nova</i> Steph.	174
***	<i>Lepidozia novae-zelandiae</i> Steph.	174
**	<i>Lepidozia novae-zelandiae</i> var. <i>heterostipa</i> R.M.Schust.	174
**	<i>Lepidozia novae-zelandiae</i> var. <i>minima</i> R.M.Schust.	174
***	<i>Lepidozia obtusiloba</i> Steph.	174
***	<i>Lepidozia obtusiloba</i> var. <i>parvula</i> J.J.Engel.	174
**	<i>Lepidozia omeiensis</i> P.C.Chen ex Mizut. et K.C.Chang	174
***	<i>Lepidozia ornata</i> J.J.Engel	174
*	<i>Lepidozia pallida</i> Steph.	174
*	<i>Lepidozia palmicola</i> Steph.	174
*	<i>Lepidozia parvistipa</i> Taylor	176
**	<i>Lepidozia paschalis</i> Steph.	174
***	<i>Lepidozia patens</i> Lindenb.	174
*	<i>Lepidozia paucifolia</i> Steph.	174
**	<i>Lepidozia paupercula</i> Steph.	174
**	<i>Lepidozia pearsonii</i> Spruce	174
***	<i>Lepidozia pendulina</i> (Hook.) Lindenb.	174
**	<i>Lepidozia peruviansis</i> Steph.	174
***	<i>Lepidozia pinnaticurvis</i> Spruce ex Steph.	174
*	<i>Lepidozia plumula</i> Herzog	174
**	<i>Lepidozia portoricensis</i> Fulford	174
***	<i>Lepidozia procera</i> Mitt.	174
*	<i>Lepidozia pseudocupressina</i> Schiffn.	174
***	<i>Lepidozia pumila</i> J.J.Engel	174
***	<i>Lepidozia quadridens</i> (Nees) Nees	175
**	<i>Lepidozia quadrifida</i> Lindenb.	175
***	<i>Lepidozia reptans</i> (L.) Dumort.	175
**	<i>Lepidozia richardsii</i> Herzog	175
**	<i>Lepidozia rigida</i> Steph.	175
**	<i>Lepidozia robusta</i> Steph.	175
*	<i>Lepidozia rufescens</i> Steph.	175
**	<i>Lepidozia sandvicensis</i> Lindenb.	175
**	<i>Lepidozia schwabei</i> Herzog	175
**	<i>Lepidozia selligiana</i> H.A.Mill.	175
***	<i>Lepidozia septemfida</i> Steph.	175
**	<i>Lepidozia serpens</i> Spruce	175
***	<i>Lepidozia serrulata</i> J.J.Engel	175
***	<i>Lepidozia setigera</i> Steph.	175
**	<i>Lepidozia sikkimensis</i> Steph.	175

***	<i>Lepidozia spinosissima</i> (Hook.f. et Taylor) Mitt.	175
*	<i>Lepidozia squamifolia</i> Steph.	175
***	<i>Lepidozia squarrosa</i> Steph.	175
**	<i>Lepidozia stahlII</i> Steph.	175
**	<i>Lepidozia stuhlmannii</i> Steph.	175
**	<i>Lepidozia stuhlmannii</i> var. <i>carnea</i> (Steph.) Pócs	175
**	<i>Lepidozia stuhlmannii</i> subsp. <i>pulvinata</i> (Steph.) Pócs	175
**	<i>Lepidozia subdichotoma</i> Spruce	175
**	<i>Lepidozia subintegra</i> Lindenb.	175
**	<i>Lepidozia subtransversa</i> Steph.	175
**	<i>Lepidozia subtrichodes</i> Steph.	175
**	<i>Lepidozia succida</i> Mitt.	175
**	<i>Lepidozia supradecomposita</i> Lindenb.	175
*	<i>Lepidozia supradecomposita</i> var. <i>falcifolia</i> Herzog.	175
**	<i>Lepidozia suyungii</i> C.Gao et X.L.Bai	176
**	<i>Lepidozia terricola</i> Steph.	176
**	<i>Lepidozia triangulifolia</i> Steph.	176
***	<i>Lepidozia trichodes</i> (Reinw., Blume et Nees) Nees	176
*	<i>Lepidozia tricuspudata</i> Steph.	176
**	<i>Lepidozia tunguraguae</i> Steph.	176
**	<i>Lepidozia ubangiensis</i> Steph.	176
***	<i>Lepidozia udarii</i> S.C.Srivast., D.Kumar et D.Sharma	176
***	<i>Lepidozia ulothrix</i> (Schwägr.) Lindenb.	176
**	<i>Lepidozia vitrea</i> Steph.	176
**	<i>Lepidozia watsiana</i> Steph.	176
**	<i>Lepidozia weymouthiana</i> Steph.	176
*	<i>Leptocolea sumatrana</i> Herzog.	510
***	<i>Leptolejeunea amphioptthalma</i> Zwickel	394
**	<i>Leptolejeunea apiculata</i> (Horik.) S.Hatt.	394
**	<i>Leptolejeunea arunachalensis</i> Sudipa Das et D.K.Singh	394
***	<i>Leptolejeunea astroidea</i> (Mitt.) Steph.	394
**	<i>Leptolejeunea australis</i> Steph.	394
**	<i>Leptolejeunea balansae</i> Steph.	394
*	<i>Leptolejeunea borneensis</i> Herzog.	394
**	<i>Leptolejeunea brasiliensis</i> Bischl.	394
*	<i>Leptolejeunea convexistipa</i> Bischl.	394
*	<i>Leptolejeunea curvatifolia</i> Steph.	394
**	<i>Leptolejeunea denticulata</i> Steph.	394
**	<i>Leptolejeunea dentistipula</i> Steph.	394
**	<i>Leptolejeunea diversilobulata</i> Bischl.	394
**	<i>Leptolejeunea dolabriformis</i> Pearson	394
***	<i>Leptolejeunea elliptica</i> (Lehm. et Lindenb.) Besch.	395
*	<i>Leptolejeunea emarginata</i> (Horik.) S.Hatt.	395
***	<i>Leptolejeunea epiphylla</i> (Mitt.) Steph.	395
***	<i>Leptolejeunea exocellata</i> (Spruce) A.Evans	395
**	<i>Leptolejeunea foliicola</i> Steph.	395
**	<i>Leptolejeunea integristipula</i> Steph.	395
*	<i>Leptolejeunea jamaicensis</i> R.M.Schust.	395
**	<i>Leptolejeunea lancifolia</i> Steph.	395
**	<i>Leptolejeunea latifolia</i> Herzog.	395
**	<i>Leptolejeunea lepinii</i> Steph.	395
**	<i>Leptolejeunea ligulata</i> Herzog.	395

***	<i>Leptolejeunea maculata</i> (Mitt.) Schiffn.....	395
*	<i>Leptolejeunea massartiana</i> Schiffn. ex Herzog.....	395
**	<i>Leptolejeunea micronesica</i> Inoue et H.A.Mill.....	395
**	<i>Leptolejeunea minima</i> Herzog.....	395
**	<i>Leptolejeunea mirikana</i> M.Dey et D.K.Singh	395
***	<i>Leptolejeunea moniliata</i> Steph.....	395
***	<i>Leptolejeunea obfuscata</i> (Spruce) Steph.	395
*	<i>Leptolejeunea punctata</i> Herzog.....	395
***	<i>Leptolejeunea radicata</i> (Nees ex Mont.) Grolle.....	396
*	<i>Leptolejeunea renneri</i> Herzog.....	396
*	<i>Leptolejeunea revoluta</i> P.C.Chen	396
**	<i>Leptolejeunea rosulans</i> Steph.	396
**	<i>Leptolejeunea serratifolia</i> Schiffn.	396
**	<i>Leptolejeunea serrulata</i> Herzog.....	396
**	<i>Leptolejeunea spinistipula</i> (Mizut.) Xiao L.He.....	396
**	<i>Leptolejeunea subdentata</i> Schiffn. ex Herzog	396
***	<i>Leptolejeunea subrotundifolia</i> Herzog.....	396
***	<i>Leptolejeunea tridentata</i> Bischl.....	396
*	<i>Leptolejeunea trigonostipa</i> (Spruce) Steph.....	396
**	<i>Leptolejeunea tripuncta</i> (Mitt.) Steph.....	396
**	<i>Leptolejeunea truncatifolia</i> Steph.....	396
*	<i>Leptolejeunea udarii</i> M.Dey et D.K.Singh	396
***	<i>Leptolejeunea vitrea</i> (Nees) Schiffn.	396
***	<i>Leptophyllopsis laxa</i> (Mitt.) R.M.Schust. ex Hamlin	204
***	<i>Leptoscybopsis paradoxa</i> R.M.Schust.....	204
***	<i>Leptoscyphus aequatus</i> (Hook.f. et Taylor) Mitt.	206
***	<i>Leptoscyphus amphibolius</i> (Nees) Grolle	207
***	<i>Leptoscyphus antarcticus</i> (C.Massal.) Solari.....	205
***	<i>Leptoscyphus australis</i> (Gottsche, Lindenb. et Nees) R.M.Schust.....	205
***	<i>Leptoscyphus autoicus</i> (J.J.Engel et Gradst.) Vanderp. et Gradst.	207
**	<i>Leptoscyphus beckettianus</i> (Steph.) R.M.Schust. ex J.J.Engel.....	207
***	<i>Leptoscyphus belmoranus</i> (Steph.) J.J.Engel	205
***	<i>Leptoscyphus chilensis</i> (De Not.) Hässel.....	206
***	<i>Leptoscyphus cleefii</i> Fulford	207
**	<i>Leptoscyphus compactus</i> (Colenso) J.J.Engel.....	207
***	<i>Leptoscyphus cuneifolius</i> (Hook.) Mitt.	204
**	<i>Leptoscyphus cuneifolius</i> subsp. <i>fragilis</i> (J.B.Jack et Steph.) Grolle.....	205
*	<i>Leptoscyphus difficilis</i> (Steph.) Fulford.....	206
***	<i>Leptoscyphus diversifolius</i> (Gottsche) Grolle.....	206
**	<i>Leptoscyphus erraticus</i> (W.Martin et E.A.Hodgs.) J.J.Engel.....	208
***	<i>Leptoscyphus excipulatus</i> (Steph.) J.J.Engel.....	205
***	<i>Leptoscyphus expansus</i> (Lehm.) Grolle	206
***	<i>Leptoscyphus gibbosus</i> (Taylor) Mitt.	205
***	<i>Leptoscyphus gradsteinii</i> Vanderp., Schäf.-Verw. et D.G.Long.....	205
***	<i>Leptoscyphus hedbergii</i> (S.W.Arnell) R.M.Schust.	207
***	<i>Leptoscyphus hexagonus</i> (Nees) Grolle	205
***	<i>Leptoscyphus horizontalis</i> (Hook.) Kühnem.....	208
*	<i>Leptoscyphus huidobroanus</i> (Mont.) Gottsche.....	207
***	<i>Leptoscyphus huonicus</i> Piippo	207
***	<i>Leptoscyphus infuscatus</i> (Mitt.) E.W.Jones ex Grolle	207
***	<i>Leptoscyphus innovatus</i> (E.A.Hodgs.) J.J.Engel.....	205
***	<i>Leptoscyphus intermedius</i> Grolle.....	206

***	<i>Leptoscyphus jackii</i> (Steph.) Grolle.....	205
***	<i>Leptoscyphus lambinonii</i> Vanderp., Schäf.-Verw. et D.G.Long	206
***	<i>Leptoscyphus longistipulus</i> (Steph.) J.J.Engel.....	205
***	<i>Leptoscyphus magellanicus</i> (Gola) Hässel	207
**	<i>Leptoscyphus normalis</i> (Steph.) J.J.Engel	208
***	<i>Leptoscyphus obcordatus</i> (Spruce) Grolle.....	206
***	<i>Leptoscyphus ovatus</i> (Spruce) Grolle.....	206
**	<i>Leptoscyphus physanthus</i> (Hook.f. et Taylor) J.J.Engel.....	208
***	<i>Leptoscyphus physocalyx</i> (Hampe et Gottsche) Gottsche	205
***	<i>Leptoscyphus porphyrius</i> (Nees) Grolle.....	206
***	<i>Leptoscyphus porphyrius</i> subsp. <i>azoricus</i> (H.Buch et Perss.) Vanderp. et Heinrichs	206
***	<i>Leptoscyphus sotiauxii</i> Vanderp., Schäf.-Verw. et D.G.Long	206
***	<i>Leptoscyphus spectabilis</i> (Steph.) Grolle	207
**	<i>Leptoscyphus submarginatus</i> (Hook.f. et Taylor) J.J.Engel.....	208
***	<i>Leptoscyphus trapezoides</i> (Mont.) L.Söderstr.....	208
**	<i>Lethocolea congesta</i> (Lehm.) S.W.Arnell.....	97
***	<i>Lethocolea glossophylla</i> (Spruce) Grolle.....	97
**	<i>Lethocolea indica</i> G.Asthana et Maurya.....	97
***	<i>Lethocolea javanica</i> (Schiffn.) Grolle.....	97
**	<i>Lethocolea naruto-toganensis</i> Furuki	97
***	<i>Lethocolea pansa</i> (Taylor) G.A.M.Scott et K.G.Beckm.	97
***	<i>Lethocolea radicata</i> (Lehm. et Lindenb.) Grolle	97
*	<i>Lethocolea repens</i> S.Winkl.....	97
***	<i>Lindigianthus cipaconeus</i> (Gottsche) Kruijt et Gradst.....	299
***	<i>Lioclaena lanceolata</i> Nees.....	117
***	<i>Lioclaena subulata</i> (A.Evans) Schljakov	118
***	<i>Lobatiriccardia alterniloba</i> (Hook.f. et Taylor) Furuki.....	437
**	<i>Lobatiriccardia alterniloba</i> var. <i>gigantea</i> (Steph.) Nebel.....	437
**	<i>Lobatiriccardia alterniloba</i> var. <i>robusta</i> (Rodway) Nebel	437
***	<i>Lobatiriccardia athertonensis</i> (Hewson) Furuki	438
***	<i>Lobatiriccardia coronopus</i> (De Not.) Furuki.....	438
**	<i>Lobatiriccardia coronopus</i> subsp. <i>australis</i> (R.M.Schust.) Nebel, Preussing, Schäf.-Verw. et D.Quandt.....	438
**	<i>Lobatiriccardia oberwinkleri</i> Nebel, Preussing, Schäf.-Verw. et D.Quandt.....	438
**	<i>Lobatiriccardia subaquatica</i> (R.M.Schust.) Nebel	438
**	<i>Lobatiriccardia verdoornioides</i> Nebel, Preussing, Schäf.-Verw. et D.Quandt.....	438
***	<i>Lobatiriccardia yakusimensis</i> (S.Hatt.) Furuki	438
***	<i>Lobatiriccardia yunnanensis</i> Furuki et D.G.Long.....	438
***	<i>Lophocolea aberrans</i> Lindenb. et Gottsche	208
***	<i>Lophocolea aequifolia</i> Nees et Mont.	208
*	<i>Lophocolea angustistipula</i> Steph.	208
***	<i>Lophocolea anisoloba</i> (J.J.Engel et Glenny) L.Söderstr.....	208
**	<i>Lophocolea anomala</i> Steph.	208
**	<i>Lophocolea anomoda</i> (Mont.) Steph.	208
**	<i>Lophocolea apalachicola</i> R.M.Schust.	208
***	<i>Lophocolea aperticaulis</i> (J.J.Engel) L.Söderstr.....	208
**	<i>Lophocolea aphelophylla</i> (Hässel) Váňa.....	208
**	<i>Lophocolea apophylla</i> (Hässel) Váňa	209
***	<i>Lophocolea appalachiana</i> R.M.Schust.....	209
**	<i>Lophocolea ascensionis</i> Steph.	209
**	<i>Lophocolea asperrima</i> Steph.	209
**	<i>Lophocolea atra</i> Gola	209

***	<i>Lophocolea attenuata</i> Steph.....	209
***	<i>Lophocolea australis</i> Gottsche.....	209
**	<i>Lophocolea autoica</i> Steph.	209
**	<i>Lophocolea baldwinii</i> Steph.	209
**	<i>Lophocolea bartlettii</i> H.A.Mill.	209
**	<i>Lophocolea bewsii</i> (Sim) Grolle.....	209
**	<i>Lophocolea bicuspidata</i> Steph.....	209
***	<i>Lophocolea bidentata</i> (L.) Dumort.	209
**	<i>Lophocolea bifidistipula</i> Steph.....	209
***	<i>Lophocolea bispinosa</i> (Hook.f. et Taylor) Gottsche, Lindenb. et Nees.....	209
**	<i>Lophocolea bootanensis</i> Steph.....	209
**	<i>Lophocolea boulyana</i> Steph.....	209
**	<i>Lophocolea bowliana</i> Steph.....	209
***	<i>Lophocolea brookwoodiana</i> Paton et Sheahan.....	209
**	<i>Lophocolea caespitans</i> Steph.....	209
***	<i>Lophocolea calcarea</i> Steph.....	209
**	<i>Lophocolea caledonica</i> Steph.....	209
***	<i>Lophocolea canaliculata</i> (Gottsche, Lindenb. et Nees) Steph.....	210
***	<i>Lophocolea canaliculata</i> var. <i>concava</i> (J.J.Engel) L.Söderstr.	210
**	<i>Lophocolea cervicornis</i> Steph.....	210
**	<i>Lophocolea ciliifera</i> Steph.....	210
*	<i>Lophocolea coadunata</i> (Sw.) Mont.....	210
**	<i>Lophocolea concreta</i> Mont.....	210
**	<i>Lophocolea convexula</i> Mitt.....	210
**	<i>Lophocolea corticola</i> Steph.....	210
***	<i>Lophocolea decurrens</i> Herzog.....	210
*	<i>Lophocolea deningeri</i> Herzog.....	210
**	<i>Lophocolea dentiflora</i> Steph.....	210
**	<i>Lophocolea difformis</i> Nees.....	210
**	<i>Lophocolea discedens</i> (Lehm. et Lindenb.) Lehm. et Lindenb.	210
*	<i>Lophocolea dusenii</i> Steph.....	210
***	<i>Lophocolea erosa</i> (J.J.Engel) L.Söderstr.....	210
***	<i>Lophocolea excisifolia</i> Steph.....	210
***	<i>Lophocolea fertilis</i> (J.J.Engel) L.Söderstr.....	210
**	<i>Lophocolea flavicans</i> Steph.....	210
***	<i>Lophocolea floribunda</i> Steph.....	210
**	<i>Lophocolea foliicola</i> Spruce.....	210
**	<i>Lophocolea fragillima</i> Steph.....	210
***	<i>Lophocolea fragmentissima</i> R.M.Schust.....	211
***	<i>Lophocolea fragrans</i> (Moris et De Not.) Gottsche, Lindenb. et Nees.....	211
**	<i>Lophocolea glaziovii</i> Steph.....	211
**	<i>Lophocolea gollanii</i> (Steph.) Váňa.....	211
**	<i>Lophocolea granatensis</i> Gottsche.....	211
**	<i>Lophocolea griffithiana</i> Steph.....	211
**	<i>Lophocolea hahnii</i> Steph.....	211
**	<i>Lophocolea haskarliana</i> Gottsche.....	211
***	<i>Lophocolea hattorii</i> (J.J.Engel) L.Söderstr.....	211
**	<i>Lophocolea hawaica</i> Steph.....	211
**	<i>Lophocolea heterodonta</i> Steph.....	211
**	<i>Lophocolea heteromorpha</i> Steph.....	211
***	<i>Lophocolea heterophylla</i> (Schrad.) Dumort.....	211
**	<i>Lophocolea heterophylla</i> subsp. <i>cladogyna</i> R.M.Schust.....	211

**	<i>Lophocolea horikawana</i> S.Hatt.....	211
**	<i>Lophocolea howeana</i> Steph.....	211
*	<i>Lophocolea humifusa</i> (Hook.f. et Taylor) Gottsche, Lindenb. et Nees.....	211
**	<i>Lophocolea humistrata</i> (Hook.f. et Taylor) Gottsche, Lindenb. et Nees.....	211
**	<i>Lophocolea itoana</i> Inoue.....	211
**	<i>Lophocolea javanica</i> Schiffn.....	211
**	<i>Lophocolea koponenii</i> (Piippo) Váňa.....	211
**	<i>Lophocolea kurzii</i> Sande Lac.....	212
*	<i>Lophocolea kurzii</i> var. <i>siamensis</i> N.Kitag.....	212
**	<i>Lophocolea laceristipula</i> Steph.....	212
**	<i>Lophocolea latistipula</i> Steph.....	212
***	<i>Lophocolea lauterbachii</i> Steph.....	212
*	<i>Lophocolea laxissima</i> Herzog.....	212
**	<i>Lophocolea ledermannii</i> Steph.....	212
***	<i>Lophocolea lenta</i> (Hook.f. et Taylor) Gottsche, Lindenb. et Nees.....	212
***	<i>Lophocolea leptantha</i> (Hook.f. et Taylor) Gottsche, Lindenb. et Nees.....	212
***	<i>Lophocolea liebmanniana</i> Gottsche.....	212
**	<i>Lophocolea lindmannii</i> Steph.....	212
***	<i>Lophocolea longiciliata</i> Herzog.....	212
**	<i>Lophocolea lucida</i> (Spreng.) Mont.....	212
**	<i>Lophocolea madagascariensis</i> Gottsche.....	212
**	<i>Lophocolea magna</i> (Udar et V.Nath) Váňa.....	212
***	<i>Lophocolea mediifrons</i> (J.J.Engel et Braggins) L.Söderstr.....	212
**	<i>Lophocolea micronesica</i> Inoue et H.A.Mill.....	212
*	<i>Lophocolea microstipula</i> Steph.....	212
***	<i>Lophocolea minor</i> Nees.....	212
**	<i>Lophocolea minutistipula</i> Steph.....	212
*	<i>Lophocolea mollis</i> (Nees) Nees.....	212
*	<i>Lophocolea morobeana</i> Piippo.....	213
**	<i>Lophocolea muhavurensis</i> (S.W.Arnell) S.W.Arnell ex Pócs.....	213
***	<i>Lophocolea muricata</i> (Lehm.) Nees.....	213
*	<i>Lophocolea muricata</i> var. <i>major</i> Pearson.....	213
**	<i>Lophocolea nakajimae</i> S.Hatt. et Inoue.....	213
***	<i>Lophocolea novae-zeelandiae</i> (Lehm. et Lindenb.) Nees.....	213
***	<i>Lophocolea novae-zeelandiae</i> var. <i>meridionalis</i> (Steph.) L.Söderstr.....	213
**	<i>Lophocolea orbigniana</i> Nees et Mont.....	213
**	<i>Lophocolea papulimarginata</i> H.A.Mill.....	213
**	<i>Lophocolea parca</i> (Gottsche) Fulford et Sharp.....	213
**	<i>Lophocolea parva</i> Steph.....	213
***	<i>Lophocolea parvispinea</i> (J.J.Engel) L.Söderstr.....	213
**	<i>Lophocolea parvistipula</i> Steph.....	213
***	<i>Lophocolea patulistipa</i> Steph.....	213
***	<i>Lophocolea perpuzilla</i> (Hook.f. et Taylor) Gottsche, Lindenb. et Nees.....	213
**	<i>Lophocolea piacenzai</i> (Gola) Váňa.....	213
**	<i>Lophocolea pilistipula</i> Steph.....	213
*	<i>Lophocolea pinnatistipula</i> Steph.....	213
**	<i>Lophocolea platensis</i> C.Massal.....	214
**	<i>Lophocolea purpurea</i> Steph.....	214
**	<i>Lophocolea pusilla</i> Steph.....	214
**	<i>Lophocolea randii</i> S.W.Arnell.....	214
**	<i>Lophocolea rara</i> Steph.....	214
**	<i>Lophocolea rectangularis</i> Herzog.....	214

**	<i>Lophocolea rectangulata</i> Mitt.	214
***	<i>Lophocolea rupicola</i> Steph.	214
***	<i>Lophocolea sabuletorum</i> (Hook.f. et Taylor) Gottsche, Lindenb. et Nees	214
**	<i>Lophocolea salacensis</i> Steph.	214
**	<i>Lophocolea savesiana</i> Steph.	214
***	<i>Lophocolea semiteres</i> (Lehm.) Mitt.	214
***	<i>Lophocolea semiteres</i> var. <i>retusa</i> (J.J.Engel) L.Söderstr.	214
**	<i>Lophocolea serrata</i> Mitt.	214
**	<i>Lophocolea siamensis</i> Steph.	214
**	<i>Lophocolea sikkimensis</i> (Steph.) Herzog et Grolle	214
*	<i>Lophocolea silvestris</i> Gottsche	214
**	<i>Lophocolea steetziae</i> De Not.	214
***	<i>Lophocolea striatella</i> (C.Massal.) Schiffn.	214
**	<i>Lophocolea subbidentata</i> Herzog	214
**	<i>Lophocolea subcostata</i> Steph.	214
***	<i>Lophocolea subporosa</i> Mitt.	214
**	<i>Lophocolea subporosa</i> var. <i>inflexifolia</i> (Steph.) L.Söderstr.	215
**	<i>Lophocolea subviridis</i> (Hook.f. et Taylor) Gottsche, Lindenb. et Nees	215
**	<i>Lophocolea sumatrana</i> Schiffn.	215
***	<i>Lophocolea sylvatica</i> Mitt.	215
**	<i>Lophocolea tenera</i> Ångstr.	215
**	<i>Lophocolea tenerrima</i> Spruce	215
**	<i>Lophocolea teptepensis</i> Piippo	215
***	<i>Lophocolea textilis</i> (Hook.f. et Taylor) Gottsche, Lindenb. et Nees	215
**	<i>Lophocolea textiloidea</i> J.J.Engel	215
***	<i>Lophocolea trichocoleoides</i> (Glenny, J.J.Engel et He-Nygrén) L.Söderstr.	215
**	<i>Lophocolea tricuspidata</i> Herzog	215
***	<i>Lophocolea tristaniana</i> S.W.Arnell	215
*	<i>Lophocolea undulata</i> Mont.	215
***	<i>Lophocolea villosa</i> Mitt.	215
**	<i>Lophocolea wacei</i> (S.W.Arnell ex J.J.Engel et Váňa) Váňa et L.Söderstr.	215
***	<i>Lophocolea wambana</i> Piippo	215
**	<i>Lophocolea werthii</i> (J.J.Engel et R.M.Schust.) Váňa et L.Söderstr.	215
**	<i>Lophocolea widgrenii</i> Steph.	215
*	<i>Lopholejeunea aberrantia</i> Horik.	408
***	<i>Lopholejeunea applanata</i> (Reinw., Blume et Nees) Schiffn.	406
**	<i>Lopholejeunea borbonica</i> Steph.	406
***	<i>Lopholejeunea borneensis</i> (Steph.) Verd.	406
***	<i>Lopholejeunea ceylanica</i> Steph.	407
***	<i>Lopholejeunea colensoi</i> Steph.	407
***	<i>Lopholejeunea erugata</i> B.M.Thiers	406
***	<i>Lopholejeunea erulopha</i> (Taylor) Schiffn.	406
***	<i>Lopholejeunea evansiana</i> Verd.	406
**	<i>Lopholejeunea grandicrista</i> Steph.	408
***	<i>Lopholejeunea grollei</i> R.L.Zhu et Gradst.	406
***	<i>Lopholejeunea herzogiana</i> Verd.	406
***	<i>Lopholejeunea hispidissima</i> Steph.	407
***	<i>Lopholejeunea horticola</i> Schiffn.	407
**	<i>Lopholejeunea jonesii</i> Vanden Berghen	406
**	<i>Lopholejeunea laciniata</i> E.W.Jones	406
***	<i>Lopholejeunea latilobula</i> Verd.	407
***	<i>Lopholejeunea leioptera</i> Gyarmati	408

**	<i>Lopholejeunea lepidoscypha</i> Kiaer et Pearson.....	408
***	<i>Lopholejeunea loheri</i> Steph.....	407
***	<i>Lopholejeunea magna</i> Mizut.	407
**	<i>Lopholejeunea minima</i> Vanden Berghen	406
***	<i>Lopholejeunea minuta</i> R.L.Zhu et Gradst.	407
*	<i>Lopholejeunea multilacera</i> Steph.	408
***	<i>Lopholejeunea nigricans</i> (Lindenb.) Schiffn.	407
*	<i>Lopholejeunea obtusilacera</i> Herzog.....	406
**	<i>Lopholejeunea onraedtii</i> Vanden Berghen.....	408
*	<i>Lopholejeunea paramultilacera</i> Vanden Berghen	406
***	<i>Lopholejeunea plicatiscypha</i> (Hook.f. et Taylor) Steph.....	407
***	<i>Lopholejeunea pocsii</i> Gyarmati	408
*	<i>Lopholejeunea proxima</i> Steph.....	407
*	<i>Lopholejeunea quinquecarinata</i> Vanden Berghen	406
***	<i>Lopholejeunea recurvata</i> Mizut.	407
**	<i>Lopholejeunea renistipula</i> (Mitt.) Steph.....	406
**	<i>Lopholejeunea revoluta</i> E.W.Jones	406
***	<i>Lopholejeunea soae</i> R.L.Zhu et Gradst.	407
**	<i>Lopholejeunea sphaerophora</i> (Lehm. et Lindenb.) Steph.	408
***	<i>Lopholejeunea streimannii</i> B.M.Thiers et Gradst.	407
***	<i>Lopholejeunea subfusca</i> (Nees) Schiffn.....	407
**	<i>Lopholejeunea subfusca</i> var. <i>elongata</i> Vanden Berghen	407
*	<i>Lopholejeunea tixieriana</i> Vanden Berghen	408
**	<i>Lopholejeunea udarii</i> M.Dey et D.K.Singh	408
**	<i>Lopholejeunea utriculata</i> Steph.	408
*	<i>Lopholejeunea vietnamica</i> Tixier	408
**	<i>Lopholejeunea vojtkoana</i> Gyarmati.....	407
***	<i>Lopholejeunea wiltensii</i> Steph.....	407
*	<i>Lopholejeunea yapensis</i> Steph.	407
***	<i>Lopholejeunea zollingeri</i> (Steph.) Schiffn.....	407
***	<i>Lophonardia jamesonii</i> (Mont.) L.Söderstr. et Váňa.....	75
***	<i>Lophonardia laxifolia</i> (Mont.) L.Söderstr. et Váňa.....	75
***	<i>Lophonardia tristaniana</i> (S.W.Arnell) L.Söderstr. et Váňa	75
***	<i>Lophozia ascendens</i> (Warnst.) R.M.Schust.	79
*	<i>Lophozia austrosibirica</i> Bakalin	79
**	<i>Lophozia ciliata</i> Damsh., L.Söderstr. et H.Weibull	79
***	<i>Lophozia guttulata</i> (Lindb. et Arnell) A.Evans	79
*	<i>Lophozia jamaicensis</i> (Nees) Steph.....	79
**	<i>Lophozia lacerata</i> N.Kitag.	79
**	<i>Lophozia lantratoviae</i> Bakalin.....	79
**	<i>Lophozia murmanica</i> Kaal.	79
**	<i>Lophozia pacifica</i> Bakalin	79
*	<i>Lophozia pallida</i> (Steph.) Grolle.....	79
**	<i>Lophozia savicziae</i> Schljakov.....	79
*	<i>Lophozia schusterana</i> Schljakov.....	79
*	<i>Lophozia serpens</i> (Dumort.) Dumort.	80
***	<i>Lophozia silvicola</i> H.Buch	79
***	<i>Lophozia silvicoloides</i> N.Kitag.....	79
*	<i>Lophozia subapiculata</i> R.M.Schust. et Damsh.	80
**	<i>Lophozia udarii</i> S.Srivast., S.C.Srivast. et K.K.Rawat	80
***	<i>Lophozia ventricosa</i> (Dicks.) Dumort.....	80
*	<i>Lophozia wenzelii</i> (Nees) Steph.	80

***	<i>Lophoziopsis excisa</i> (Dicks.) Konstant. et Vilnet.....	80
**	<i>Lophoziopsis excisa</i> var. <i>elegans</i> (R.M.Schust.) Konstant. et Vilnet.....	80
**	<i>Lophoziopsis excisa</i> var. <i>infusata</i> (R.M.Schust. et Damsh.) Konstant. et Vilnet.....	80
**	<i>Lophoziopsis excisa</i> var. <i>succulenta</i> (R.M.Schust. et Damsh.) Konstant. et Vilnet.....	80
***	<i>Lophoziopsis longidens</i> (Lindb.) Konstant. et Vilnet.....	81
**	<i>Lophoziopsis longidens</i> subsp. <i>arctica</i> (R.M.Schust.) Váňa et L.Söderstr.....	81
***	<i>Lophoziopsis pellucida</i> (R.M.Schust.) Konstant. et Vilnet.....	81
**	<i>Lophoziopsis pellucida</i> var. <i>minor</i> (R.M.Schust.) L.Söderstr. et Váňa.....	81
***	<i>Lophoziopsis polaris</i> (R.M.Schust.) Konstant. et Vilnet.....	81
**	<i>Lophoziopsis polaris</i> var. <i>sphagnorum</i> (R.M.Schust.) Konstant. et Vilnet.....	81
*	<i>Lophoziopsis propagulifera</i> (Gottsche) Konstant. et Vilnet.....	81
**	<i>Lophoziopsis rubrigemma</i> (R.M.Schust.) Konstant. et Vilnet.....	81
***	<i>Lunularia cruciata</i> (L.) Dumort. ex Lindb.....	476
*	<i>Lunularia cruciata</i> subsp. <i>thaxteri</i> (A.Evans et Herzog) R.M.Schust.	476
***	<i>Luteolejeunea herzogii</i> (Buchloh) Piippo.....	304
***	<i>Macrocolura sagittistipula</i> (Spruce) R.M.Schust.....	348
***	<i>Makinoa crispata</i> (Steph.) Miyake.....	468
***	<i>Mannia androgyna</i> (L.) A.Evans.....	481
***	<i>Mannia californica</i> (Gottsche) L.C.Wheeler.....	481
***	<i>Mannia controversa</i> (Meyl.) D.B.Schill.....	481
***	<i>Mannia controversa</i> subsp. <i>asiatica</i> D.B.Schill et D.G.Long.....	481
***	<i>Mannia fragrans</i> (Balb.) Frye et L.Clark.....	481
**	<i>Mannia fragrans</i> subsp. <i>orientalis</i> R.M.Schust.	481
***	<i>Mannia gracilis</i> (F.Weber) D.B.Schill et D.G.Long.....	482
*	<i>Mannia hegewaldii</i> Bischl.....	482
*	<i>Mannia paradoxa</i> R.M.Schust.....	482
*	<i>Mannia personii</i> Udar et V.Chandra.....	481
***	<i>Mannia pilosa</i> (Hornem.) Frye et L.Clark.....	482
***	<i>Mannia sibirica</i> (Müll.Frib.) Frye et L.Clark.....	482
***	<i>Mannia triandra</i> (Scop.) Grolle.....	482
***	<i>Marchantia acaulis</i> Steph.....	490
***	<i>Marchantia antiqua</i> Steph.....	490
*	<i>Marchantia assamica</i> Griff.....	491
*	<i>Marchantia balboi</i> Gola.....	491
*	<i>Marchantia balboi</i> var. <i>acutisquamata</i> Gerola.....	491
***	<i>Marchantia berteroaana</i> Lehm. et Lindenb.....	490
***	<i>Marchantia breviloba</i> A.Evans.....	489
*	<i>Marchantia cagnii</i> Gola.....	491
***	<i>Marchantia carrii</i> Bischl.....	490
*	<i>Marchantia cengiana</i> Gerola.....	491
***	<i>Marchantia chenopoda</i> L.....	489
***	<i>Marchantia crenata</i> Austin.....	489
***	<i>Marchantia debilis</i> K.I.Goebel.....	490
***	<i>Marchantia emarginata</i> Reinw., Blume et Nees.....	490
***	<i>Marchantia emarginata</i> subsp. <i>lecordiana</i> (Steph.) Bischl.....	490
***	<i>Marchantia emarginata</i> subsp. <i>tosana</i> (Steph.) Bischl.....	490
***	<i>Marchantia foliacea</i> Mitt.....	489
***	<i>Marchantia formosana</i> Horik.....	489
*	<i>Marchantia friedrichsthaliana</i> Trevis.....	491
***	<i>Marchantia geminata</i> Reinw., Blume et Nees.....	490
***	<i>Marchantia globosa</i> Brid.....	489
***	<i>Marchantia hartlessiana</i> Steph.....	491

***	<i>Marchantia hexaptera</i> Reichardt	489
***	<i>Marchantia inflexa</i> Nees et Mont.	489
*	<i>Marchantia keniae</i> Gola	491
***	<i>Marchantia linearis</i> Lehm. et Lindenb.	489
***	<i>Marchantia macropora</i> Mitt.	491
***	<i>Marchantia miqueliana</i> Lehm.	489
***	<i>Marchantia novoguineensis</i> Bischl.	489
***	<i>Marchantia paleacea</i> Bertol.	489
***	<i>Marchantia paleacea</i> subsp. <i>diptera</i> (Nees et Mont.) Inoue	489
***	<i>Marchantia papillata</i> Raddi	490
***	<i>Marchantia papillata</i> subsp. <i>grossibarba</i> (Steph.) Bischl.	490
***	<i>Marchantia pappeana</i> Lehm.	489
**	<i>Marchantia pappeana</i> subsp. <i>robusta</i> (Steph.) Bischl.	489
*	<i>Marchantia papyracea</i> Gola	491
***	<i>Marchantia philippinensis</i> Bischl.	491
***	<i>Marchantia pileata</i> Mitt.	489
***	<i>Marchantia pinnata</i> Steph.	489
***	<i>Marchantia plicata</i> Nees et Mont.	490
***	<i>Marchantia polymorpha</i> L.	490
***	<i>Marchantia polymorpha</i> subsp. <i>montivagans</i> Bischl. et Boissel.-Dub.	490
***	<i>Marchantia polymorpha</i> subsp. <i>ruderalis</i> Bischl. et Boissel.-Dub.	490
*	<i>Marchantia quadriloba</i> Steph.	492
***	<i>Marchantia rubribarba</i> Steph.	489
*	<i>Marchantia sellae</i> Gola	492
***	<i>Marchantia solomonensis</i> Bischl.	491
**	<i>Marchantia stoloniscyphulus</i> (C.Gao et K.C.Chang) Piippo	492
***	<i>Marchantia streimannii</i> Bischl.	491
***	<i>Marchantia subgeminata</i> Steph.	491
***	<i>Marchantia subintegra</i> Mitt.	491
***	<i>Marchantia treubii</i> Schiffn.	491
*	<i>Marchantia trilocularis</i> Roth	492
*	<i>Marchantia tusui</i> Gola	492
***	<i>Marchantia vitiensis</i> Steph.	490
***	<i>Marchantia wallisii</i> J.B.Jack et Steph.	491
***	<i>Marchesinia bongardiana</i> (Lehm. et Lindenb.) Trevis.	409
***	<i>Marchesinia brachiata</i> (Sw.) Schiffn.	409
***	<i>Marchesinia deslooveri</i> Vanden Berghen	409
***	<i>Marchesinia excavata</i> (Mitt.) Schiffn.	409
***	<i>Marchesinia languida</i> (Nees et Mont.) Steph.	409
***	<i>Marchesinia mackaii</i> (Hook.) Gray	408
***	<i>Marchesinia nobilis</i> (Gottsche) X.Q.Shi, R.L.Zhu et Gradst.	409
***	<i>Marchesinia robusta</i> (Mitt.) Schiffn.	409
***	<i>Marsupella alata</i> S.Hatt. et N.Kitag.	112
***	<i>Marsupella andreaeoides</i> (Lindb.) Müll.Frib.	112
***	<i>Marsupella apiculata</i> Schiffn.	112
***	<i>Marsupella aquatica</i> (Lindenb.) Schiffn.	112
***	<i>Marsupella arctica</i> (Berggr.) Bryhn et Kaal.	112
***	<i>Marsupella boeckii</i> (Austin) Lindb. ex Kaal.	112
***	<i>Marsupella bolanderi</i> (Austin) Underw.	112
***	<i>Marsupella condensata</i> (Ångstr. ex C.Hartm.) Lindb. ex Kaal.	113
***	<i>Marsupella disticha</i> Steph.	113
***	<i>Marsupella emarginata</i> (Ehrh.) Dumort.	113

**	<i>Marsupella emarginata</i> subsp. <i>tubulosa</i> (Steph.) N.Kitag.....	113
**	<i>Marsupella emarginata</i> subsp. <i>tubulosa</i> var. <i>apertifolia</i> (Steph.) N.Kitag.....	113
**	<i>Marsupella emarginata</i> subsp. <i>tubulosa</i> var. <i>patens</i> N.Kitag.....	113
**	<i>Marsupella emarginata</i> subsp. <i>tubulosa</i> var. <i>tubulosa</i> (Steph.) N.Kitag. ex Vána et L.Söderstr.	113
***	<i>Marsupella funckii</i> (F.Weber et D.Mohr) Dumort.	113
***	<i>Marsupella microphylla</i> R.M.Schust.....	113
**	<i>Marsupella minutissima</i> N.Kitag.....	113
***	<i>Marsupella neesii</i> Sande Lac. ex Schiffn.	113
***	<i>Marsupella paroica</i> R.M.Schust.	113
***	<i>Marsupella profunda</i> Lindb.....	113
***	<i>Marsupella pseudofunckii</i> S.Hatt.....	113
***	<i>Marsupella sparsifolia</i> (Lindb.) Dumort.	113
**	<i>Marsupella sparsifolia</i> subsp. <i>childii</i> R.M.Schust.	113
***	<i>Marsupella sphacelata</i> (Giesecke ex Lindenb.) Dumort.	113
***	<i>Marsupella spiniloba</i> R.M.Schust. et Damsh.....	113
***	<i>Marsupella sprucei</i> (Limpr.) Bernet.....	114
**	<i>Marsupella stableri</i> Spruce.....	114
***	<i>Marsupella stoloniformis</i> N.Kitag.	114
**	<i>Marsupella stoloniformis</i> subsp. <i>vermiformis</i> R.M.Schust.	114
***	<i>Marsupella yakushimensis</i> (Horik.) S.Hatt.....	114
*	<i>Mastigobryum aberrans</i> Steph.	510
*	<i>Mastigobryum asperum</i> Steph.....	510
*	<i>Mastigobryum deningeri</i> Herzog.....	510
*	<i>Mastigobryum karstenii</i> Steph.	510
*	<i>Mastigobryum ledermannii</i> Steph.....	510
*	<i>Mastigobryum londbergii</i> Steph.	510
*	<i>Mastigobryum longifolium</i> Steph.	510
*	<i>Mastigobryum minutitextum</i> Steph.	510
*	<i>Mastigobryum multidens</i> Steph.	510
*	<i>Mastigobryum muscicola</i> Steph.....	510
*	<i>Mastigobryum nigricans</i> Herzog.....	510
*	<i>Mastigobryum nipuranum</i> Steph.....	510
*	<i>Mastigobryum palmicola</i> Steph.....	510
*	<i>Mastigobryum rajanum</i> Herzog.....	510
*	<i>Mastigobryum ribehanum</i> Steph.....	510
*	<i>Mastigobryum ruficaule</i> Beauverd.....	510
*	<i>Mastigobryum schraderbergii</i> Steph.	510
*	<i>Mastigobryum squamulistipum</i> Steph.	510
*	<i>Mastigobryum subhyalinum</i> Steph.....	510
*	<i>Mastigobryum venezuelanum</i> Molk.	510
*	<i>Mastigobryum vermiculare</i> Herzog.....	510
***	<i>Mastigolejeunea auriculata</i> (Wilson et Hook.) Steph.....	409
**	<i>Mastigolejeunea auriculata</i> var. <i>rhodesica</i> (Vanden Berghen) Sukkharak et Gradst.....	409
***	<i>Mastigolejeunea calcarata</i> (Steph.) Verd.	409
***	<i>Mastigolejeunea florea</i> (Mitt.) Paris.....	409
***	<i>Mastigolejeunea frauenfeldii</i> (Reichardt) Verd.	409
**	<i>Mastigolejeunea gradsteinii</i> Sukkharak.....	409
***	<i>Mastigolejeunea humilis</i> (Gottsche) Schiffn.....	410
***	<i>Mastigolejeunea indica</i> Steph.	410
***	<i>Mastigolejeunea innovans</i> (Spruce) Steph.	410
***	<i>Mastigolejeunea ligulata</i> (Lehm. et Lindenb.) Schiffn.....	410
***	<i>Mastigolejeunea nigra</i> Steph.....	410

***	<i>Mastigolejeunea plicatiflora</i> (Spruce) Steph.	410
***	<i>Mastigolejeunea recondita</i> (Steph.) Mizut.	410
***	<i>Mastigolejeunea repleta</i> (Taylor) A.Evans	410
***	<i>Mastigolejeunea truncata</i> Mizut.	410
**	<i>Mastigolejeunea turgida</i> Steph.	410
***	<i>Mastigolejeunea virens</i> (Ångstr.) Steph. <i>nom. conserv.</i>	410
**	<i>Mastigopelma fragile</i> (Steph.) N.Kitag.	163
**	<i>Mastigopelma pulvinulatum</i> (De Not.) Grolle.	163
**	<i>Mastigopelma simplex</i> Mitt.	163
**	<i>Mastigopelma subfissum</i> Grolle.	163
*	<i>Mastigophora appendiculata</i> Steph.	218
*	<i>Mastigophora attenuata</i> (Taylor) Trevis.	218
**	<i>Mastigophora caledonica</i> Steph.	218
***	<i>Mastigophora diclados</i> (Brid. ex F.Weber) Nees	218
**	<i>Mastigophora diclados</i> var. <i>borneensis</i> (De Not.) Schiffn.	218
**	<i>Mastigophora diclados</i> var. <i>ramentifissa</i> Herzog.	218
*	<i>Mastigophora diclados</i> var. <i>villosa</i> Herzog.	218
*	<i>Mastigophora guineensis</i> Steph.	218
*	<i>Mastigophora humillima</i> (Taylor) Trevis.	218
*	<i>Mastigophora pyramidana</i> Steph.	218
**	<i>Mastigophora sepikiana</i> Piippo	218
**	<i>Mastigophora tuberculata</i> D.H.Mill. et H.A.Mill.	218
*	<i>Mastigophora valida</i> Steph.	218
**	<i>Mastigophora viridula</i> (Nees) Trevis.	218
***	<i>Mastigophora woodsii</i> (Hook.) Nees	218
**	<i>Megaceros aneuriformis</i> Steph.	34
***	<i>Megaceros austronesophilus</i> Cargill et Seppelt	34
**	<i>Megaceros ciliatus</i> K.I.Goebel	34
***	<i>Megaceros denticulatus</i> (Lehm.) Steph.	34
***	<i>Megaceros flagellaris</i> (Mitt.) Steph.	34
*	<i>Megaceros flavens</i> (Spruce) Campb.	34
***	<i>Megaceros gracilis</i> (Reichardt) Steph.	34
*	<i>Megaceros jamesonii</i> (Taylor) Steph.	34
**	<i>Megaceros leptohymenius</i> (Hook.f. et Taylor) Steph.	34
***	<i>Megaceros pellucidus</i> (Colenso) E.A.Hodgs.	34
**	<i>Megaceros tjobodensis</i> Campb.	34
***	<i>Megalembidium insulanum</i> (W.Martin et E.A.Hodgs.) R.M.Schust.	168
**	<i>Meinungeria mouensis</i> Frank Müll.	143
*	<i>Mesoceros mesophoros</i> Piippo	38
*	<i>Mesoceros porcatus</i> Piippo	38
***	<i>Mesoptychia badensis</i> (Gottsche ex Rabenh.) L.Söderstr. et Váňa	120
***	<i>Mesoptychia bantriensis</i> (Hook.) L.Söderstr. et Váňa	120
**	<i>Mesoptychia bantriensis</i> subsp. <i>wallfischii</i> (Ștefănuț) L.Söderstr. et Váňa	120
*	<i>Mesoptychia chichibuensis</i> (Inoue) L.Söderstr. et Váňa	120
*	<i>Mesoptychia collaris</i> (Nees) L.Söderstr. et Váňa	120
*	<i>Mesoptychia fitzgeraldiae</i> (Paton et A.R.Perry) L.Söderstr. et Váňa	121
***	<i>Mesoptychia gillmanii</i> (Austin) L.Söderstr. et Váňa	121
***	<i>Mesoptychia heterocolpos</i> (Thed. ex Hartm.) L.Söderstr. et Váňa	121
**	<i>Mesoptychia heterocolpos</i> var. <i>arctica</i> (S.W.Arnell) L.Söderstr. et Váňa	121
**	<i>Mesoptychia heterocolpos</i> var. <i>harpanthoides</i> (Bryhn et Kaal.) L.Söderstr. et Váňa	121
***	<i>Mesoptychia igiana</i> (S.Hatt.) L.Söderstr. et Váňa	121
*	<i>Mesoptychia mamatkulovii</i> (Duda) L.Söderstr. et Váňa	121

***	<i>Mesoptychia mayebarae</i> (S.Hatt.) L.Söderstr. et Váňa.....	121
***	<i>Mesoptychia morrisoncola</i> (Horik.) L.Söderstr. et Váňa	121
*	<i>Mesoptychia polymorpha</i> Stotler, Crand.-Stotl. et Bakalin	121
***	<i>Mesoptychia rutheana</i> (Limpr.) L.Söderstr. et Váňa.....	121
**	<i>Mesoptychia rutheana</i> var. <i>laxa</i> (Schiffn. ex Burrell) L.Söderstr. et Váňa	121
***	<i>Mesoptychia sahlbergii</i> (Lindb. et Arnell) A.Evans	121
***	<i>Mesoptychia subcrispa</i> (Herzog) L.Söderstr. et Váňa.....	121
***	<i>Mesoptychia turbinata</i> (Raddi) L.Söderstr. et Váňa	122
*	<i>Mesoptychia ussuriensis</i> (Bakalin) L.Söderstr. et Váňa.....	122
***	<i>Metacalypogeia alternifolia</i> (Nees) Grolle	107
**	<i>Metacalypogeia cordifolia</i> (Steph.) Inoue.....	107
**	<i>Metalejeunea crassitexta</i> (J.B.Jack et Steph.) Pócs.....	300
***	<i>Metalejeunea cucullata</i> (Reinw., Blume et Nees) Grolle	300
***	<i>Metalejeunea winkleri</i> R.L.Zhu et Grolle.....	300
***	<i>Metzgeria acuminata</i> Steph.	457
***	<i>Metzgeria adscendens</i> Steph. ex K.I.Goebel	457
***	<i>Metzgeria agnewiae</i> Kuwah.....	457
***	<i>Metzgeria albinea</i> Spruce.....	457
***	<i>Metzgeria albinea</i> var. <i>aberrans</i> Schiffn.	457
***	<i>Metzgeria albinea</i> var. <i>angusta</i> (Steph.) D.P.Costa et Gradst.	457
***	<i>Metzgeria allionii</i> Steph.	457
***	<i>Metzgeria alpina</i> R.M.Schust. et J.J.Engel.....	457
***	<i>Metzgeria americana</i> Masuzaki	457
***	<i>Metzgeria attenuata</i> Steph.	457
***	<i>Metzgeria aurantiaca</i> Steph.	457
***	<i>Metzgeria auriculata</i> Grolle et Kuwah.	457
***	<i>Metzgeria babiensis</i> Schiffn.	457
***	<i>Metzgeria bartlettii</i> Kuwah.	457
***	<i>Metzgeria bischlerae</i> Kuwah.	457
***	<i>Metzgeria bracteata</i> Spruce	457
***	<i>Metzgeria brasiliensis</i> Schiffn.	457
***	<i>Metzgeria chilensis</i> Steph.	457
***	<i>Metzgeria ciliata</i> Raddi.....	457
***	<i>Metzgeria claviflora</i> Spruce	457
***	<i>Metzgeria cleefii</i> Kuwah.	458
**	<i>Metzgeria comata</i> Steph.	458
***	<i>Metzgeria conjugata</i> Lindb.....	458
***	<i>Metzgeria consanguinea</i> Schiffn.	458
***	<i>Metzgeria convoluta</i> Steph.	458
**	<i>Metzgeria coorgensis</i> S.C.Srivast. et S.Srivast.	458
**	<i>Metzgeria corralensis</i> Steph.	458
***	<i>Metzgeria crassipilis</i> (Lindb.) A.Evans	458
***	<i>Metzgeria cratoneura</i> Schiffn.	458
***	<i>Metzgeria cylindra</i> Kuwah.	458
**	<i>Metzgeria decrescens</i> Steph.	458
***	<i>Metzgeria dichotoma</i> (Sw.) Nees	458
**	<i>Metzgeria divaricata</i> A.Evans.....	458
***	<i>Metzgeria dorsipara</i> (Herzog) Kuwah.	458
***	<i>Metzgeria duricosta</i> Steph.	458
**	<i>Metzgeria engelii</i> Kuwah.....	458
**	<i>Metzgeria epiphylla</i> A.Evans	458
***	<i>Metzgeria filicina</i> Mitt.....	458

**	<i>Metzgeria flavovirens</i> Colenso.....	458
*	<i>Metzgeria foliicola</i> Schiffn.....	458
***	<i>Metzgeria francana</i> Steph.	458
**	<i>Metzgeria frontipilis</i> Lindb.	459
***	<i>Metzgeria fruticola</i> Spruce	459
***	<i>Metzgeria furcata</i> (L.) Corda	459
*	<i>Metzgeria furcata</i> var. <i>expansa</i> Douin	459
*	<i>Metzgeria furcata</i> var. <i>pacifica</i> Brinkm.	459
***	<i>Metzgeria grandiflora</i> A.Evans	459
**	<i>Metzgeria hasselii</i> Kuwah.	459
**	<i>Metzgeria hebridensis</i> Steph.	459
***	<i>Metzgeria hegewaldii</i> Kuwah.	459
***	<i>Metzgeria herminieri</i> Schiffn.....	459
*	<i>Metzgeria heteroramea</i> Steph.	459
**	<i>Metzgeria imberbis</i> J.B.Jack et Steph.....	459
***	<i>Metzgeria inflata</i> Steph.....	459
***	<i>Metzgeria jamesonii</i> Kuwah.	459
**	<i>Metzgeria kanaii</i> Kuwah.....	459
***	<i>Metzgeria kinabaluensis</i> Masuzaki.....	459
**	<i>Metzgeria kuwaharae</i> Piippo.....	459
**	<i>Metzgeria laciniata</i> Kuwah.	459
***	<i>Metzgeria lechleri</i> Steph.	459
***	<i>Metzgeria leptoneura</i> Spruce	459
**	<i>Metzgeria leptoneura</i> var. <i>breviseta</i> (Schiffn.) O.Yano.....	459
**	<i>Metzgeria leptoneura</i> var. <i>polychaeta</i> R.M.Schust.	459
***	<i>Metzgeria liebmaniana</i> Lindenb. et Gottsche.....	459
***	<i>Metzgeria lindbergii</i> Schiffn.	459
**	<i>Metzgeria litoralis</i> J.J.Engel et Kuwah.....	459
***	<i>Metzgeria longitexta</i> Steph.	460
**	<i>Metzgeria macrospora</i> Kuwah.	460
**	<i>Metzgeria macveanii</i> Kuwah.	460
***	<i>Metzgeria maegdefraui</i> Kuwah.	460
**	<i>Metzgeria magellanica</i> Schiffn.....	460
***	<i>Metzgeria metaensis</i> Kuwah.	460
***	<i>Metzgeria mexicana</i> Steph.	460
**	<i>Metzgeria monoica</i> Kuwah. et J.J.Engel	460
***	<i>Metzgeria myriopoda</i> Lindb.	460
***	<i>Metzgeria neotropica</i> Kuwah.	460
***	<i>Metzgeria nudifrons</i> Steph.	460
***	<i>Metzgeria parviinvoluta</i> Kuwah.....	460
**	<i>Metzgeria patagonica</i> Steph.	460
***	<i>Metzgeria polytricha</i> Spruce	460
***	<i>Metzgeria procera</i> Mitt.	460
***	<i>Metzgeria psilocraspeda</i> Schiffn.	460
***	<i>Metzgeria pubescens</i> (Schrank) Raddi	460
***	<i>Metzgeria pulvinata</i> Steph.	460
**	<i>Metzgeria quadrifaria</i> Steph.	460
**	<i>Metzgeria raoi</i> S.C.Srivast. et S.Srivast.	460
**	<i>Metzgeria rigida</i> Lindb.	460
**	<i>Metzgeria robinsonii</i> Steph.	460
**	<i>Metzgeria roivainenii</i> Kuwah.....	461
***	<i>Metzgeria rufula</i> Spruce.....	461

**	<i>Metzgeria saccata</i> Mitt.....	461
**	<i>Metzgeria saxbyi</i> Pearson	461
**	<i>Metzgeria scobina</i> Mitt.	461
***	<i>Metzgeria scyphigera</i> A.Evans.....	461
***	<i>Metzgeria senjoana</i> Masuzaki.....	461
**	<i>Metzgeria setigera</i> R.M.Schust. ex Crand.-Stotl. et L.Söderstr.....	461
**	<i>Metzgeria sikkimensis</i> S.C.Srivast. et K.K.Rawat.....	461
*	<i>Metzgeria simplex</i> Lorb. ex Müll.Frib.	461
***	<i>Metzgeria sinuata</i> Loitl.....	461
**	<i>Metzgeria sparrei</i> Kuwah.	461
***	<i>Metzgeria spindleri</i> Steph.....	461
***	<i>Metzgeria subaneura</i> Schiffn.....	461
**	<i>Metzgeria submarginata</i> M.L.So	461
**	<i>Metzgeria subundulata</i> (Lindb.) Kuwah.....	461
**	<i>Metzgeria temperata</i> Kuwah.	461
***	<i>Metzgeria uncigera</i> A.Evans	461
***	<i>Metzgeria undulata</i> Kuwah.....	461
***	<i>Metzgeria violacea</i> (Ach.) Dumort.....	461
***	<i>Microlejeunea acutifolia</i> Steph.	385
**	<i>Microlejeunea africana</i> Steph.....	385
**	<i>Microlejeunea aligera</i> (Mitt.) Steph.....	385
**	<i>Microlejeunea ankasica</i> E.W.Jones	385
**	<i>Microlejeunea aphanella</i> (Spruce) Steph.....	385
**	<i>Microlejeunea atsuana</i> Steph.....	385
**	<i>Microlejeunea bischlerae</i> (B.M.Thiers) B.M.Thiers	385
***	<i>Microlejeunea bullata</i> (Taylor) Steph.....	385
*	<i>Microlejeunea byssoides</i> (Gottsche) Pearson.....	385
**	<i>Microlejeunea capillaris</i> (Gottsche) Steph.	385
**	<i>Microlejeunea cochlearifolia</i> Steph.....	386
**	<i>Microlejeunea colombiana</i> Bischl.....	386
**	<i>Microlejeunea constricta</i> (Grolle) Grolle.....	386
**	<i>Microlejeunea crenulifolia</i> (Gottsche) Steph.....	386
***	<i>Microlejeunea cystifera</i> Herzog.....	386
**	<i>Microlejeunea dispar</i> Jovet-Ast.....	386
***	<i>Microlejeunea epiphylla</i> Bischl.....	386
***	<i>Microlejeunea filicuspis</i> (Steph.) Heinrichs, Schäf.-Verw., Pócs et S.Dong	386
***	<i>Microlejeunea fischeri</i> (Tixier) Heinrichs, Schäf.-Verw., Pócs et S.Dong.....	386
**	<i>Microlejeunea fissistipula</i> Steph.	386
***	<i>Microlejeunea globosa</i> (Spruce) Steph.....	386
**	<i>Microlejeunea herzogiana</i> Steph.....	386
**	<i>Microlejeunea indica</i> (Udar et U.S.Awasthi) Y.M.Wei et R.L.Zhu.....	386
**	<i>Microlejeunea inflata</i> Steph.	386
**	<i>Microlejeunea kinabaluensis</i> (Mizut.) Grolle	386
***	<i>Microlejeunea latitans</i> (Hook.f. et Taylor) Heinrichs, Schäf.-Verw., Pócs et S.Dong	386
**	<i>Microlejeunea lunulatiloba</i> Horik.	386
*	<i>Microlejeunea magnilobula</i> Gola.....	386
**	<i>Microlejeunea mammillosa</i> (Mizut.) Grolle	387
**	<i>Microlejeunea minutissima</i> (Mizut.) Grolle.....	387
*	<i>Microlejeunea minutistipula</i> Steph.	387
***	<i>Microlejeunea moniliata</i> (Mizut.) R.L.Zhu et Y.M.Wei.....	387
*	<i>Microlejeunea nepalensis</i> Steph.....	387
**	<i>Microlejeunea nyandaruenensis</i> Pócs	387

**	<i>Microlejeunea oblongistipula</i> (Gottsche) Pearson	387
**	<i>Microlejeunea ocellata</i> (Herzog) Grolle	387
*	<i>Microlejeunea ovistipula</i> Steph.	387
**	<i>Microlejeunea papulosa</i> (Gottsche) Pearson	387
**	<i>Microlejeunea perpusilla</i> (Spruce) Steph.	387
**	<i>Microlejeunea punctiformis</i> (Taylor) Steph.	387
**	<i>Microlejeunea pyriformis</i> (Lindenb. et Gottsche) Steph.	387
**	<i>Microlejeunea spinosa</i> (Mizut.) Grolle	387
***	<i>Microlejeunea squarrosa</i> (Steph.) Heinrichs, Schäf.-Verw., Pócs et S.Dong	387
**	<i>Microlejeunea strasbergii</i> Bardat et Ah-Peng	387
***	<i>Microlejeunea subulistipa</i> Steph.	388
*	<i>Microlejeunea szechuanensis</i> P.C.Chen	388
**	<i>Microlejeunea udarii</i> P.K.Verma et S.C.Srivast.	388
***	<i>Microlejeunea ulicina</i> (Taylor) Steph.	388
*	<i>Microlejeunea usambarensis</i> Steph.	388
**	<i>Microlejeunea valenciana</i> Steph.	388
*	<i>Microlejeunea victoriensis</i> D.J.Carr	388
***	<i>Microlejeunea wallichiana</i> (Lehm.) R.L.Zhu et Y.M.Weï	388
**	<i>Micropterygium angustistipulum</i> Spruce	181
***	<i>Micropterygium bialatum</i> Fulford	181
***	<i>Micropterygium bolivarense</i> Fulford	181
***	<i>Micropterygium campanense</i> Spruce	181
***	<i>Micropterygium carinatum</i> (Grev.) Reimers	181
***	<i>Micropterygium conchifolium</i> Reimers	181
***	<i>Micropterygium duidae</i> Reimers	181
**	<i>Micropterygium exalatum</i> Steph.	181
**	<i>Micropterygium grandistipulum</i> Steph.	181
**	<i>Micropterygium laeve</i> H.Rob.	181
**	<i>Micropterygium lechleri</i> Reimers	181
***	<i>Micropterygium leiophyllum</i> Spruce	181
**	<i>Micropterygium longicellulatum</i> Uribe et E.L.Linares	182
**	<i>Micropterygium parvistipulum</i> Spruce	182
***	<i>Micropterygium pterygophyllum</i> (Nees) Trevis.	182
*	<i>Micropterygium pterygophyllum</i> var. <i>lancifolium</i> Reimers	182
**	<i>Micropterygium reimerianum</i> Herzog	182
***	<i>Micropterygium steyermarkii</i> Fulford	182
***	<i>Micropterygium tatei</i> Reimers	182
***	<i>Micropterygium tenax</i> (Steph.) Grolle	182
***	<i>Micropterygium trachyphyllum</i> Reimers	182
*	<i>Micropterygium trachyphyllum</i> var. <i>brasiliense</i> Reimers	182
*	<i>Micropterygium trachyphyllum</i> var. <i>cubense</i> Reimers	182
*	<i>Micropterygium trachyphyllum</i> var. <i>guadeloupense</i> Reimers	182
*	<i>Micropterygium trachyphyllum</i> var. <i>jamaicense</i> Reimers	182
***	<i>Micropterygium tumidulum</i> Fulford	182
***	<i>Mizutania riccardioides</i> Furuki et Z.Iwats.	107
**	<i>Mnioloma bolivianum</i> (Fulford) R.M.Schust.	108
***	<i>Mnioloma caespitosum</i> (Spruce) R.M.Schust.	108
***	<i>Mnioloma cellulosum</i> (Spreng.) R.M.Schust.	108
***	<i>Mnioloma crenulatum</i> (Bischl.) R.M.Schust.	108
***	<i>Mnioloma cyclostipum</i> (Spruce) R.M.Schust.	108
**	<i>Mnioloma elliottii</i> (Steph.) R.M.Schust.	108
**	<i>Mnioloma fissistipulum</i> (Bischl.) R.M.Schust.	108

***	<i>Mnioloma fuscum</i> (Lehm.) R.M.Schust.	108
***	<i>Mnioloma nephrostipum</i> (Spruce) R.M.Schust.	108
**	<i>Mnioloma novaezelandiae</i> J.J.Engel	108
***	<i>Mnioloma parallelogramum</i> (Spruce) R.M.Schust.	108
**	<i>Mnioloma retusum</i> (Bischl.) R.M.Schust.	108
***	<i>Mnioloma rhynchophyllum</i> Herzog	108
**	<i>Mnioloma stamatotonum</i> M.A.M.Renner et E.A.Br.	108
***	<i>Mnioloma venezuelanum</i> (Fulford) R.M.Schust.	108
***	<i>Moerckia blyttii</i> (Morch) Brockm.	469
***	<i>Moerckia flotoviana</i> (Nees) Schiffn.	469
***	<i>Moerckia hibernica</i> (Hook.) Gottsche	469
***	<i>Monocarpus sphaerocarpus</i> D.J.Carr	504
***	<i>Monoclea forsteri</i> Hook.	492
***	<i>Monoclea gottschei</i> Lindb.	492
***	<i>Monoclea gottschei</i> subsp. <i>elongata</i> Gradst. et Mues.	492
**	<i>Monodactylopsis monodactyla</i> (Spruce) R.M.Schust.	183
***	<i>Monosolenium tenerum</i> Griff.	492
***	<i>Mylia anomala</i> (Hook.) Gray	258
***	<i>Mylia taylorii</i> (Hook.) Gray	258
***	<i>Mylia verrucosa</i> Lindb.	258
***	<i>Mylia verrucosa</i> subsp. <i>nuda</i> (Inoue et B.Y.Yang) Potemkin et Kazan	259
***	<i>Myriocoleopsis fluviatilis</i> (Steph.) M.E.Reiner et Gradst.	348
***	<i>Myriocoleopsis gymnocolea</i> (Spruce) M.E.Reiner et Gradst.	348
***	<i>Myriocoleopsis minutissima</i> (Sm.) R.L.Zhu, Y.Yu et Pócs	348
***	<i>Myriocoleopsis minutissima</i> subsp. <i>myriocarpa</i> (Nees et Mont.) R.L.Zhu, Y.Yu et Pócs	348
**	<i>Myriocoleopsis vuquangensis</i> (Pócs et Ninh) Pócs	349
***	<i>Mytilopsis albifrons</i> Spruce	182
***	<i>Nanomarsupella xenophylla</i> (R.M.Schust.) R.M.Schust. ex A.Hagborg, L.Söderstr. et von Konrat	110
***	<i>Nardia arnelliana</i> Grolle	114
***	<i>Nardia assamica</i> (Mitt.) Amakawa	114
***	<i>Nardia breidlerii</i> (Limpr.) Lindb.	114
***	<i>Nardia compressa</i> (Hook.) Gray	114
***	<i>Nardia flagelliformis</i> Inoue	114
***	<i>Nardia geoscyphus</i> (De Not.) Lindb.	114
*	<i>Nardia geoscyphus</i> var. <i>dioica</i> Bakalin	114
*	<i>Nardia geoscyphus</i> var. <i>suberecta</i> (Lindb. ex Kaal.) Váňa	114
***	<i>Nardia grollei</i> Váňa et D.G.Long	115
***	<i>Nardia insecta</i> Lindb.	115
***	<i>Nardia japonica</i> Steph.	115
*	<i>Nardia kamtschatica</i> Arnell et C.E.O.Jensen	115
*	<i>Nardia leptocaulis</i> C.Gao	115
***	<i>Nardia lescurii</i> (Austin) Underw.	115
**	<i>Nardia minutifolia</i> Furuki	115
**	<i>Nardia nuda</i> (Lindenb. et Gottsche) Váňa	115
***	<i>Nardia poeltii</i> Váňa	115
***	<i>Nardia scalaris</i> Gray	115
*	<i>Nardia scalaris</i> var. <i>botryoidea</i> (R.M.Schust.) Váňa	115
*	<i>Nardia scalaris</i> var. <i>harae</i> (Amakawa) Váňa	115
***	<i>Nardia subclavata</i> (Steph.) Amakawa	115
***	<i>Nardia succulenta</i> (A.Rich.) Spruce	115
***	<i>Nardia unispiralis</i> Amakawa	115
***	<i>Neesioscyphus allionii</i> (Steph.) Grolle	102

***	<i>Neesioscyphus argillaceus</i> (Nees) Grolle.....	102
***	<i>Neesioscyphus bicuspidatus</i> (Steph.) Grolle.....	102
***	<i>Neesioscyphus carneus</i> (Nees) Grolle.....	102
***	<i>Neesioscyphus homophyllus</i> (Nees) Grolle.....	102
*	<i>Nemoursia tuberculata</i> Mérat.....	511
***	<i>Neogrollea notabilis</i> E.A.Hodgs.....	183
***	<i>Neohattoria herzogii</i> (S.Hatt.) Kamim.	296
***	<i>Neohodgsonia mirabilis</i> (Perss.) Perss.	504
***	<i>Neolepidozia aubertii</i> (Jovet-Ast) E.D.Cooper	176
***	<i>Neolepidozia autoica</i> (J.J.Engel et G.L.Merr.) E.D.Cooper	176
***	<i>Neolepidozia capilligera</i> (Schwäger.) Fulford et J.Taylor.....	176
***	<i>Neolepidozia consobrina</i> (J.J.Engel et G.L.Merr.) E.D.Cooper.....	176
***	<i>Neolepidozia cuneifolia</i> (Steph.) Fulford et J.Taylor.....	177
***	<i>Neolepidozia disparata</i> (J.J.Engel et G.L.Merr.) E.D.Cooper	177
***	<i>Neolepidozia disticha</i> (Steph.) Fulford et J.Taylor.....	177
***	<i>Neolepidozia gibbsiana</i> (Steph.) E.D.Cooper	177
***	<i>Neolepidozia heterotexta</i> (Steph.) E.D.Cooper	177
***	<i>Neolepidozia hodgsoniae</i> (J.J.Engel et G.L.Merr.) E.D.Cooper.....	177
***	<i>Neolepidozia longitudinalis</i> (Herzog) E.D.Cooper	177
***	<i>Neolepidozia mamillosa</i> (Schiffn.) E.D.Cooper	177
***	<i>Neolepidozia meridiana</i> (E.A.Hodgs.) E.D.Cooper.....	177
***	<i>Neolepidozia oligophylla</i> (Lehm. et Lindenb.) Fulford et J.Taylor	177
***	<i>Neolepidozia ophiria</i> (Gottsche) E.D.Cooper	177
***	<i>Neolepidozia palmata</i> (J.J.Engel et G.L.Merr.) E.D.Cooper	177
***	<i>Neolepidozia paludicola</i> (E.A.Hodgs.) E.D.Cooper.....	177
***	<i>Neolepidozia papulosa</i> (Steph.) Fulford et J.Taylor	177
***	<i>Neolepidozia parvifolia</i> (Steph.) Fulford et J.Taylor.....	178
***	<i>Neolepidozia patentissima</i> (Hook.f. et Taylor) E.D.Cooper.....	178
***	<i>Neolepidozia patentissima</i> var. <i>ampliata</i> (J.J.Engel et G.L.Merr.) E.D.Cooper	178
***	<i>Neolepidozia patentissima</i> var. <i>zebrina</i> (J.J.Engel et G.L.Merr.) E.D.Cooper.....	178
***	<i>Neolepidozia pennata</i> (J.J.Engel et G.L.Merr.) E.D.Cooper.....	178
***	<i>Neolepidozia planifolia</i> (Steph.) E.D.Cooper	178
***	<i>Neolepidozia praenitens</i> (Lehm. et Lindenb.) E.D.Cooper	178
***	<i>Neolepidozia praenitens</i> var. <i>dentifolia</i> (J.J.Engel et G.L.Merr.) E.D.Cooper	178
***	<i>Neolepidozia quadristipula</i> (Steph.) E.D.Cooper	178
***	<i>Neolepidozia rectangularis</i> (R.M.Schust.) E.D.Cooper.....	178
***	<i>Neolepidozia seriatitexta</i> (Steph.) Fulford.....	178
***	<i>Neolepidozia tetrapila</i> (Hook.f. et Taylor) E.D.Cooper	178
***	<i>Neolepidozia tetrapila</i> var. <i>cancellata</i> (Colenso) E.D.Cooper.....	178
***	<i>Neolepidozia tetrapila</i> var. <i>roseana</i> (Steph.) E.D.Cooper.....	179
***	<i>Neolepidozia tridactylis</i> (Lehm. et Lindenb.) E.D.Cooper	179
***	<i>Neolepidozia trifida</i> (Steph.) E.D.Cooper	179
***	<i>Neolepidozia verruculosa</i> (J.J.Engel et G.L.Merr.) E.D.Cooper	179
***	<i>Neolepidozia wallichiana</i> (Gottsche) Fulford et J.Taylor.....	179
***	<i>Neorthocaulis attenuatus</i> (Mart.) L.Söderstr., De Roo et Hedd.....	53
***	<i>Neorthocaulis binsteadii</i> (Kaal.) L.Söderstr., De Roo et Hedd.	53
***	<i>Neorthocaulis floerkei</i> (F.Weber et D.Mohr) L.Söderstr., De Roo et Hedd.....	53
**	<i>Neorthocaulis hyperboreus</i> (R.M.Schust.) L.Söderstr., De Roo et Hedd.	53
**	<i>Neotrichocolea bissetii</i> (Mitt.) S.Hatt.....	434
**	<i>Nephelolejeunea bidentata</i> B.M.Thiers ex L.Söderstr. et A.Hagborg	349
**	<i>Nephelolejeunea carcharias</i> M.A.M.Renner	349
***	<i>Nephelolejeunea conchophylla</i> Grolle	349

**	<i>Nephelolejeunea fragilis</i> (R.M.Schust.) L.Söderstr. et A.Hagborg.....	349
***	<i>Nephelolejeunea hamata</i> Grolle.....	349
***	<i>Nephelolejeunea hispida</i> R.M.Schust. ex L.Söderstr. et A.Hagborg.....	349
***	<i>Nephelolejeunea jarmeniana</i> Grolle ex L.Söderstr. et A.Hagborg.....	349
***	<i>Nephelolejeunea nudipes</i> (Hook.f. et Taylor) L.Söderstr. et A.Hagborg.....	349
**	<i>Nephelolejeunea occidentalis</i> Pócs ex L.Söderstr. et A.Hagborg.....	349
***	<i>Nephelolejeunea papillosa</i> Glenny.....	349
***	<i>Nephelolejeunea radulifolia</i> (C.Massal.) L.Söderstr. et A.Hagborg.....	349
**	<i>Nephelolejeunea secunda</i> M.A.M.Renner ex L.Söderstr. et A.Hagborg.....	349
***	<i>Nephelolejeunea talinayi</i> (S.W.Arnell) Grolle.....	349
***	<i>Neurolejeunea breutelii</i> (Gottsche) A.Evans.....	299
**	<i>Neurolejeunea breutelii</i> var. <i>africana</i> Pócs.....	299
***	<i>Neurolejeunea catenulata</i> (Nees) Schiffn.....	299
***	<i>Neurolejeunea sastreana</i> Gradst.....	299
***	<i>Neurolejeunea seminervis</i> (Spruce) Schiffn.....	300
***	<i>Nipponolejeunea pilifera</i> (Steph.) S.Hatt.....	296
***	<i>Nipponolejeunea subalpina</i> (Horik.) S.Hatt.....	296
***	<i>Noteroclada confluens</i> Taylor.....	474
*	<i>Noteroclada longiuscula</i> Colenso.....	474
***	<i>Nothoceros aenigmaticus</i> J.C.Villarreal et K.D.McFarland.....	35
***	<i>Nothoceros canaliculatus</i> (Pagán) J.C.Villarreal, Hässel et N.Salazar.....	35
***	<i>Nothoceros endiviifolius</i> (Mont.) J.Haseg. ex J.C.Villarreal, Hässel et N.Salazar.....	35
**	<i>Nothoceros fuegiensis</i> (Steph.) J.C.Villarreal.....	35
***	<i>Nothoceros giganteus</i> (Lehm. et Lindenb.) J.Haseg. ex J.C.Villarreal, Hässel et N.Salazar.....	35
***	<i>Nothoceros minarum</i> (Nees) J.C.Villarreal.....	35
**	<i>Nothoceros renzagliensis</i> J.C.Villarreal, L.V.Campos et Uribe.....	35
***	<i>Nothoceros schizophyllus</i> (Steph.) J.C.Villarreal.....	35
***	<i>Nothoceros superbus</i> J.C.Villarreal, Hässel et N.Salazar.....	35
***	<i>Nothoceros vincentianus</i> (Lehm. et Lindenb.) J.C.Villarreal.....	35
***	<i>Nothogymnomitrium erosum</i> (Carrington et Pearson) R.M.Schust.....	75
***	<i>Nothostrepta bifida</i> (Steph.) R.M.Schust.....	46
***	<i>Nothostrepta longissima</i> (Steph.) R.M.Schust.....	46
***	<i>Notoscyphus lutescens</i> (Lehm. et Lindenb.) Mitt.....	122
***	<i>Notothyas anaporata</i> Udar et D.K.Singh.....	37
***	<i>Notothyas breutelii</i> (Gottsche) Gottsche.....	37
***	<i>Notothyas decurva</i> (Mitt.) Steph.....	37
***	<i>Notothyas depressispora</i> J.Haseg.....	37
***	<i>Notothyas dissecta</i> Steph.....	37
***	<i>Notothyas flabellata</i> Steph.....	37
***	<i>Notothyas galapagensis</i> M.Howe.....	37
***	<i>Notothyas himalayensis</i> Udar et D.K.Singh.....	37
***	<i>Notothyas indica</i> Kashyap.....	37
**	<i>Notothyas irregularis</i> Chantanaorr.....	37
***	<i>Notothyas javanica</i> (Sande Lac.) Gottsche.....	37
***	<i>Notothyas kashyapii</i> D.K.Singh.....	38
***	<i>Notothyas khasiana</i> Udar et D.K.Singh.....	37
***	<i>Notothyas nepalensis</i> D.K.Singh.....	38
***	<i>Notothyas orbicularis</i> (Schwein.) Sull.....	37
***	<i>Notothyas pandei</i> Udar et V.Chandra.....	37
***	<i>Notothyas pfliedereri</i> Udar et D.K.Singh.....	37
***	<i>Notothyas temperata</i> J.Haseg.....	38
***	<i>Notothyas udarii</i> D.K.Singh et Semwal.....	38

* <i>Notothydas verdoornii</i> Khanna.....	38
*** <i>Notothydas vitalii</i> Udar et D.K.Singh.....	38
** <i>Notothydas yunnanensis</i> T.Peng et R.L.Zhu.....	38
*** <i>Nowellia aciliata</i> (P.C.Chen et P.C.Wu) Mizut.	62
*** <i>Nowellia borneensis</i> (De Not.) Schiffn.	61
*** <i>Nowellia curvifolia</i> (Dicks.) Mitt.....	62
*** <i>Nowellia dominicensis</i> Steph.	61
*** <i>Nowellia evansii</i> Grolle.....	61
*** <i>Nowellia langii</i> Pearson.....	61
*** <i>Nowellia pusilla</i> Grolle.....	61
*** <i>Nowellia reedii</i> H.Rob.....	61
*** <i>Nowellia wrightii</i> (Gottsche ex Spruce) Steph. ex Duss	61
*** <i>Nowellia yunckeri</i> Fulford	61
*** <i>Obtusifolium obtusum</i> (Lindb.) S.W.Arnell	75
*** <i>Odontolejeunea decemdentata</i> (Spruce) Steph.....	229
*** <i>Odontolejeunea lunulata</i> (F.Weber) Schiffn.	229
*** <i>Odontolejeunea rhomalea</i> (Spruce) Steph.	229
*** <i>Odontoschisma bifidum</i> (Fulford) Gradst., S.C.Aranda et Vanderp.....	63
*** <i>Odontoschisma brasiliense</i> Steph.....	62
** <i>Odontoschisma cleefii</i> Gradst., S.C.Aranda et Vanderp.....	62
*** <i>Odontoschisma denudatum</i> (Mart.) Dumort.	62
** <i>Odontoschisma denudatum</i> subsp. <i>naviculare</i> (Steph.) Gradst., S.C.Aranda et Vanderp.....	62
** <i>Odontoschisma denudatum</i> subsp. <i>sandwicense</i> (Ångstr.) Gradst., S.C.Aranda et Vanderp.....	62
*** <i>Odontoschisma elongatum</i> (Lindb.) A.Evans.....	62
*** <i>Odontoschisma engelii</i> Gradst. et Burghardt.....	62
*** <i>Odontoschisma fluitans</i> (Nees) L.Söderstr. et Váňa.....	63
*** <i>Odontoschisma francisci</i> (Hook.) L.Söderstr. et Váňa	62
*** <i>Odontoschisma grosseverrucosum</i> Steph.	63
*** <i>Odontoschisma jishibae</i> (Steph.) L.Söderstr. et Váňa	63
*** <i>Odontoschisma longiflorum</i> (Taylor) Trevis.	63
*** <i>Odontoschisma macounii</i> (Austin) Underw.	63
* <i>Odontoschisma obcordatum</i> (Spruce) Steph.	64
*** <i>Odontoschisma portoricense</i> (Hampe et Gottsche) Steph.....	63
** <i>Odontoschisma pseudogrosseverrucosum</i> Gradst., S.C.Aranda et Vanderp.....	63
*** <i>Odontoschisma purpuratum</i> Herzog	63
*** <i>Odontoschisma soratatum</i> Fulford	63
*** <i>Odontoschisma sphagni</i> (Dicks.) Dumort.	64
*** <i>Odontoschisma spinosum</i> (Fulford) Gradst., S.C.Aranda et Vanderp.	63
** <i>Odontoschisma steyermarkii</i> Gradst. et Ilk.-Borg	63
*** <i>Odontoschisma variabile</i> (Lindenb. et Gottsche) Trevis.....	63
** <i>Odontoschisma zhui</i> Gradst., S.C.Aranda et Vanderp.	63
* <i>Odontoseris chimantana</i> Fulford	183
*** <i>Oleolophozia perssonii</i> (H.Buch et S.W.Arnell) L.Söderstr., De Roo et Hedde.	75
** <i>Omphalanthus baracoensis</i> Mustelier, M.E.Reiner et Gradst.	316
*** <i>Omphalanthus filiformis</i> (Sw.) Nees	316
** <i>Omphalanthus filiformis</i> var. <i>platycoleus</i> (Herzog) Gradst.	316
** <i>Omphalanthus filiformis</i> var. <i>wallisii</i> (Prantl) Gradst.....	316
** <i>Omphalanthus huanucensis</i> (Gottsche) Gradst.	316
*** <i>Omphalanthus jackii</i> (Prantl) Gradst.	316
*** <i>Omphalanthus ovalis</i> (Lindenb. et Gottsche) Gradst.....	316
*** <i>Omphalanthus roccatii</i> (Gola) R.M.Schust.....	316
*** <i>Orthocaulis atlanticus</i> (Kaal.) H.Buch.....	53

* <i>Orthocaulis cavifolius</i> H.Buch et S.W.Arnell.....	53
* <i>Otigoniolejeunea crenulata</i> Steph.	304
*** <i>Otigoniolejeunea huctumalcensis</i> (Lindenb. et Gottsche) Y.M.Wei, R.L.Zhu et Gradst.	304
* <i>Otigoniolejeunea ledermannii</i> Steph.	304
*** <i>Otigoniolejeunea portoricensis</i> (Hampe et Gottsche) Y.M.Wei, R.L.Zhu et Gradst.	304
*** <i>Otolejeunea australiensis</i> B.M.Thiers	392
*** <i>Otolejeunea hoana</i> (Tixier) Grolle.....	392
*** <i>Otolejeunea moniliata</i> Grolle	393
** <i>Otolejeunea philippinensis</i> R.L.Zhu et M.L.So	393
*** <i>Otolejeunea rabenorii</i> Tixier	392
*** <i>Otolejeunea schmidii</i> (Tixier) Grolle	392
*** <i>Otolejeunea schnellii</i> (Tixier) R.L.Zhu et M.L.So.....	393
*** <i>Otolejeunea semperiana</i> (Steph.) Grolle.....	393
*** <i>Otolejeunea streimannii</i> Grolle.....	393
** <i>Otolejeunea subana</i> Pócs.....	393
*** <i>Otolejeunea zantenii</i> Grolle	393
*** <i>Otoscyphus crassicaulis</i> (Steph.) J.J.Engel, Bardat et Thouvenot	216
*** <i>Oxymitra cristata</i> Garside	493
*** <i>Oxymitra incrassata</i> (Brot.) Sérgio et Sim-Sim.....	493
*** <i>Pachyglossa austrigena</i> (Hook.f. et Taylor) L.Söderstr.	216
*** <i>Pachyglossa austrigena</i> subsp. <i>okaritana</i> (Steph.) L.Söderstr.	216
*** <i>Pachyglossa boveana</i> (C.Massal.) L.Söderstr.	216
** <i>Pachyglossa dissitifolia</i> Herzog et Grolle	216
* <i>Pachyglossa exilis</i> (Herzog et Grolle) Hässel et Solari.....	216
** <i>Pachyglossa fissa</i> (Mitt.) Herzog et Grolle.....	216
*** <i>Pachyglossa gottscheoides</i> (Besch. et C.Massal.) L.Söderstr.....	216
** <i>Pachyglossa grolleana</i> Váňa.....	216
** <i>Pachyglossa otiphylla</i> (Hook.f. et Taylor) Váňa.....	216
** <i>Pachyglossa spegazziniana</i> (C.Massal.) Herzog et Grolle.....	216
** <i>Pachyglossa tenacifolia</i> (Hook.f. et Taylor) Herzog et Grolle	216
*** <i>Pallavicinia ambigua</i> (Mitt.) Steph.....	470
** <i>Pallavicinia baldwinii</i> (Austin) A.Evans	470
* <i>Pallavicinia bipinnata</i> Steph.....	470
** <i>Pallavicinia camisassai</i> Gola.....	470
** <i>Pallavicinia cylindrica</i> (Austin) A.Evans	470
** <i>Pallavicinia himalayensis</i> Schiffn.....	470
*** <i>Pallavicinia indica</i> Schiffn.....	470
*** <i>Pallavicinia levieri</i> Schiffn.	470
*** <i>Pallavicinia lyellii</i> (Hook.) Gray.....	470
** <i>Pallavicinia pilifera</i> Steph.....	470
** <i>Pallavicinia purpurea</i> Steph.....	470
** <i>Pallavicinia ridleyi</i> Steph.	471
*** <i>Pallavicinia rubristipa</i> Schiffn.....	471
*** <i>Pallavicinia subciliata</i> (Austin) Steph.	471
*** <i>Pallavicinia xiphoides</i> (Hook.f. et Taylor) Trevis.	471
*** <i>Paracromastigum denticulatum</i> (Steph.) E.D.Cooper.....	183
*** <i>Paracromastigum drucei</i> (R.M.Schust.) R.M.Schust.....	184
*** <i>Paracromastigum dusenii</i> (Steph.) R.M.Schust.....	184
** <i>Paracromastigum fiordlandiae</i> R.M.Schust. et J.J.Engel.....	184
*** <i>Paracromastigum furcifolium</i> (Steph.) R.M.Schust.....	184
** <i>Paracromastigum granatense</i> (Gottsche) R.M.Schust.....	184
** <i>Paracromastigum longiscyphum</i> (Taylor) R.M.Schust. et J.J.Engel.....	184

**	<i>Paracromastigum macrostipum</i> (Steph.) R.M.Schust.	184
**	<i>Paracromastigum micromera</i> (Spruce) R.M.Schust.	184
**	<i>Paracromastigum microphyllum</i> (R.M.Schust. ex J.J.Engel) E.D.Cooper.....	184
***	<i>Paracromastigum pachyrhizum</i> (Nees) Fulford	184
**	<i>Paracromastigum rysardii</i> Váňa, Bedn.-Ochyra et Cykowska.....	184
**	<i>Paracromastigum stipulatum</i> (Herzog) Fulford.....	184
**	<i>Paracromastigum subsimplex</i> (Steph.) Fulford et J.Taylor.....	184
**	<i>Paracromastigum succulentum</i> (Sim) J.J.Engel et G.L.Merr.....	184
**	<i>Paracromastigum tristavianum</i> (R.M.Schust.) J.J.Engel et R.M.Schust.....	184
**	<i>Paracromastigum vastilobum</i> (Steph.) J.J.Engel et G.L.Merr.....	185
***	<i>Paramomitrium paradoxum</i> R.M.Schust.....	110
***	<i>Paraphymatoceros diadematus</i> Hässel.....	38
***	<i>Paraphymatoceros hallii</i> (Austin) Hässel.....	38
***	<i>Paraphymatoceros pearsonii</i> (M.Howe) J.C.Villarreal et Cargill.....	38
***	<i>Paraphymatoceros proskaueri</i> (Stotler, Crand.-Stotl. et W.T.Doyle) J.C.Villarreal et Cargill.....	38
**	<i>Pedinophyllopsis abdita</i> (Sull.) R.M.Schust. et Inoue.....	219
***	<i>Pedinophyllum autoicum</i> (Steph.) Inoue	219
***	<i>Pedinophyllum interruptum</i> (Nees) Kaal.	219
***	<i>Pedinophyllum monoicum</i> (Steph.) Grolle	219
**	<i>Pedinophyllum truncatum</i> (Steph.) Inoue.....	219
**	<i>Pellia alpicola</i> R.M.Schust. ex L.Söderstr., A.Hagborg et von Konrat.....	475
**	<i>Pellia appalachiana</i> R.M.Schust.	475
*	<i>Pellia cordaeana</i> Trevis.	475
*	<i>Pellia crispa</i> P.Kumm.	475
***	<i>Pellia endiviifolia</i> (Dicks.) Dumort.	475
***	<i>Pellia epiphylla</i> (L.) Corda.....	475
**	<i>Pellia epiphylla</i> subsp. <i>borealis</i> (Lorb.) Messe	475
*	<i>Pellia gottscheana</i> Kreh	475
*	<i>Pellia longifolia</i> P.Kumm.....	475
**	<i>Pellia megaspora</i> R.M.Schust.	475
***	<i>Pellia neesiana</i> (Gottsche) Limpr.....	475
*	<i>Pellia undulata</i> P.Kumm.	475
**	<i>Peltolepis japonica</i> (Shimizu et S.Hatt.) S.Hatt.	484
***	<i>Peltolepis quadrata</i> (Saut.) Müll.Frib.	484
**	<i>Perdusenia rheophila</i> Hässel.....	217
***	<i>Petalophyllum americanum</i> C.H.Ford et Crand.-Stotl.	468
***	<i>Petalophyllum hodgsoniae</i> C.H.Ford et Crand.-Stotl.	468
***	<i>Petalophyllum indicum</i> Kashyap	468
***	<i>Petalophyllum preissii</i> Gottsche	468
***	<i>Petalophyllum ralfsii</i> (Wilson) Nees et Gottsche	468
**	<i>Phaeoceros austroandinum</i> Hässel.....	38
**	<i>Phaeoceros bolusii</i> (Sim) S.W.Arnell.....	38
**	<i>Phaeoceros brevicapsulus</i> (Steph.) Hässel.....	39
***	<i>Phaeoceros carolinianus</i> (Michx.) Prosk.....	39
***	<i>Phaeoceros delicatus</i> E.O.Campb. et Outred	39
***	<i>Phaeoceros dendroceroideis</i> (Steph.) Hässel.....	39
***	<i>Phaeoceros engelii</i> Cargill et Fuhrer.....	39
**	<i>Phaeoceros erectus</i> Udar et D.K.Singh	39
***	<i>Phaeoceros evanidus</i> (Steph.) Cargill et Fuhrer	39
***	<i>Phaeoceros exiguus</i> (Steph.) J.Haseg.	39
***	<i>Phaeoceros flexivalvis</i> (Gottsche et Nees) Hässel.....	39
***	<i>Phaeoceros fulvisporus</i> (Steph.) J.Haseg.	39

***	<i>Phaeoceros gemmifer</i> (Horik.) J.Haseg.	39
**	<i>Phaeoceros gualaquizanus</i> (Steph.) Gradst.	39
***	<i>Phaeoceros himalayensis</i> (Kashyap) Prosk. ex Bapna et G.G.Vyas	39
***	<i>Phaeoceros huebschmannii</i> Hässel	39
***	<i>Phaeoceros inflatus</i> (Steph.) Cargill et Fuhrer	39
***	<i>Phaeoceros kashyapii</i> A.K.Asthana et S.C.Srivast.	40
***	<i>Phaeoceros laevis</i> (L.) Prosk.	40
**	<i>Phaeoceros maranguensis</i> (Steph.) Bapna	40
*	<i>Phaeoceros microsporus</i> (Steph.) Hässel	40
***	<i>Phaeoceros minutus</i> (Mitt.) S.W.Arnell	40
***	<i>Phaeoceros mohrii</i> (Austin) Hässel	40
***	<i>Phaeoceros oreganus</i> (Austin) Hässel	40
***	<i>Phaeoceros parvulus</i> (Schiffn.) J.Haseg.	40
***	<i>Phaeoceros perpusillus</i> Chantanaorr.	40
**	<i>Phaeoceros pichinchensis</i> (Spruce) Hässel	40
**	<i>Phaeoceros propagulifer</i> (Steph.) Prosk.	40
*	<i>Phaeoceros striatisporus</i> J.Haseg.	40
***	<i>Phaeoceros tenuis</i> (Spruce) Hässel	40
**	<i>Phaeoceros tigrinus</i> (Gola) J.C.Villarreal	40
***	<i>Phaeoceros tuberosus</i> (Taylor) Prosk.	40
***	<i>Phaeoceros udarii</i> A.K.Asthana et V.Nath	40
**	<i>Phaeoceros wrightii</i> (Steph.) Hässel	40
***	<i>Phaeolejeunea amicomum</i> (Hürl.) Pócs	410
**	<i>Phaeolejeunea etesseana</i> (Steph.) Mizut.	410
**	<i>Phaeolejeunea inermis</i> (Steph.) Mizut.	410
***	<i>Phaeolejeunea latistipula</i> (Schiffn. ex P.Syd.) Mizut.	410
***	<i>Phaeomegaceros coriaceus</i> (Steph.) R.J.Duff, J.C.Villarreal, Cargill et Renzaglia	35
***	<i>Phaeomegaceros fimbriatus</i> (Gottsche) R.J.Duff, J.C.Villarreal, Cargill et Renzaglia	35
***	<i>Phaeomegaceros foveatus</i> (J.Haseg.) J.C.Villarreal	35
***	<i>Phaeomegaceros hirticalyx</i> (Steph.) R.J.Duff, J.C.Villarreal, Cargill et Renzaglia	36
***	<i>Phaeomegaceros plicatus</i> (Mitt.) J.C.Villarreal, J.J.Engel et Vána	36
***	<i>Phaeomegaceros skottsbergii</i> (Steph.) R.J.Duff, J.C.Villarreal, Cargill et Renzaglia	36
***	<i>Phaeomegaceros squamuliger</i> (Spruce) J.C.Villarreal	36
**	<i>Phaeomegaceros squamuliger</i> subsp. <i>hassellii</i> J.C.Villarreal, Cargill et Goffinet	36
***	<i>Phycolepidozia exigua</i> R.M.Schust.	75
**	<i>Phycolepidozia indica</i> Gradst., J.-P.Frahm et U.Schwarz	75
***	<i>Phyllothallia fuegiana</i> R.M.Schust.	474
***	<i>Phyllothallia nivicola</i> E.A.Hodgs.	474
***	<i>Phymatoceros bulbiculosus</i> (Brot.) Stotler, W.T.Doyle et Crand.-Stotl.	36
***	<i>Phymatoceros phymatodes</i> (M.Howe) R.J.Duff, J.C.Villarreal, Cargill et Renzaglia	36
*	<i>Physocolea tambillensis</i> (Loitl.) Steph.	511
***	<i>Pictolejeunea levis</i> Grolle et M.E.Reiner	300
***	<i>Pictolejeunea mizutanii</i> Grolle	301
**	<i>Pictolejeunea piconii</i> Pócs	301
***	<i>Pictolejeunea picta</i> (Steph.) Grolle	301
***	<i>Pictolejeunea reginae</i> Ilk.-Borg	301
***	<i>Pictolejeunea sprucei</i> Grolle	301
**	<i>Pigafettoa crenulata</i> C.Massal.	217
***	<i>Pisanoa chilensis</i> Hässel	46
***	<i>Plagiochasma appendiculatum</i> Lehm. et Lindenb.	482
***	<i>Plagiochasma argentanicum</i> Bischl.	482
***	<i>Plagiochasma beccarianum</i> Steph.	483

***	<i>Plagiochasma cordatum</i> Lehm. et Lindenb.	483
***	<i>Plagiochasma crenulatum</i> Gottsche	483
***	<i>Plagiochasma cuneatum</i> A.Evans	483
***	<i>Plagiochasma eximium</i> (Schiffn.) Steph.	483
***	<i>Plagiochasma intermedium</i> Lindenb. et Gottsche	483
***	<i>Plagiochasma jamaicense</i> (Haynes) A.Evans	483
***	<i>Plagiochasma japonicum</i> (Steph.) C.Massal	483
***	<i>Plagiochasma landii</i> A.Evans	483
*	<i>Plagiochasma megacarpum</i> (Griff.) Steph.	483
***	<i>Plagiochasma microcephalum</i> (Steph.) Steph.	483
***	<i>Plagiochasma microcephalum</i> var. <i>tunesicum</i> Bischl.	483
***	<i>Plagiochasma muenchianum</i> Steph.	483
***	<i>Plagiochasma pterospermum</i> C.Massal.	483
***	<i>Plagiochasma rupestre</i> (J.R.Forst. et G.Forst.) Steph.	483
***	<i>Plagiochasma rupestre</i> var. <i>volkii</i> Bischl.	483
**	<i>Plagiochasma udarii</i> A.Alam et S.C.Srivast.	483
***	<i>Plagiochasma wrightii</i> Sull.	483
***	<i>Plagiochila abietina</i> (Nees) Mont. et Nees	232
**	<i>Plagiochila abrupta</i> Lehm. et Lindenb.	232
*	<i>Plagiochila abscondens</i> Gottsche	238
**	<i>Plagiochila acanthocaulis</i> Sull.	224
**	<i>Plagiochila aculeata</i> (Hook.f. et Taylor) Gottsche, Lindenb. et Nees	238
**	<i>Plagiochila acuta</i> Steph.	238
***	<i>Plagiochila adiantboides</i> (Sw.) Lindenb.	220
*	<i>Plagiochila adiantboides</i> var. <i>aspergillifera</i> Spruce	220
**	<i>Plagiochila aequatorialis</i> Gottsche	233
***	<i>Plagiochila aerea</i> Taylor	225
***	<i>Plagiochila africana</i> Steph.	233
***	<i>Plagiochila akiyamae</i> Inoue	233
*	<i>Plagiochila albertii</i> Steph.	238
*	<i>Plagiochila aliena</i> Gottsche	238
**	<i>Plagiochila allionii</i> Steph.	238
***	<i>Plagiochila alternans</i> Lindenb. et Gottsche	223
*	<i>Plagiochila ambigua</i> Lindenb. et Hampe	238
**	<i>Plagiochila amblyensis</i> Taylor	226
***	<i>Plagiochila amicta</i> Steph.	226
*	<i>Plagiochila ampliata</i> Steph.	238
**	<i>Plagiochila andicola</i> Mont. et Gottsche	238
**	<i>Plagiochila andina</i> Steph.	238
*	<i>Plagiochila angolensis</i> Steph.	238
**	<i>Plagiochila angulata</i> Steph.	224
***	<i>Plagiochila angusta</i> Lindenb.	233
*	<i>Plagiochila angusteoblunga</i> Steph.	238
**	<i>Plagiochila angustisedens</i> Steph.	238
**	<i>Plagiochila angustispina</i> Steph.	238
***	<i>Plagiochila angustitexta</i> Steph.	233
***	<i>Plagiochila annotina</i> Lindenb.	231
**	<i>Plagiochila ansata</i> (Hook.f. et Taylor) Gottsche, Lindenb. et Nees	223
**	<i>Plagiochila apicalis</i> Gottsche	238
**	<i>Plagiochila appalachiana</i> Inoue	239
***	<i>Plagiochila arbuscula</i> (Brid. ex Lehm. et Lindenb.) Lindenb.	233
**	<i>Plagiochila arbuscula</i> var. <i>rekohuensis</i> J.J.Engel et G.L.Merr.	233

* <i>Plagiochila arcta</i> S.Winkl.	239
** <i>Plagiochila arctica</i> Bryhn et Kaal.	228
* <i>Plagiochila arctica</i> var. <i>intermedia</i> R.M.Schust.	228
** <i>Plagiochila arcuata</i> Lindenb.	239
** <i>Plagiochila arenacea</i> Schiffn.	239
* <i>Plagiochila arnelliana</i> Steph.	220
* <i>Plagiochila artsii</i> Pócs	239
* <i>Plagiochila aspera</i> Steph.	233
** <i>Plagiochila aspericaulis</i> Grolle et M.L.So.	227
** <i>Plagiochila aspleniformis</i> R.M.Schust.	233
*** <i>Plagiochila asplenioides</i> (L.) Dumort.	228
*** <i>Plagiochila assamica</i> Steph.	225
** <i>Plagiochila atrovirens</i> Taylor	239
** <i>Plagiochila austinii</i> A.Evans.	232
*** <i>Plagiochila badia</i> Mitt.	220
** <i>Plagiochila balansae</i> Gottsche	239
** <i>Plagiochila baldwinii</i> Austin	239
* <i>Plagiochila bamingensis</i> Steph.	239
** <i>Plagiochila bancroftii</i> Steph.	239
*** <i>Plagiochila banksiana</i> Gottsche.	223
** <i>Plagiochila banksiana</i> var. <i>echinophora</i> Inoue et R.M.Schust.	223
*** <i>Plagiochila bantamensis</i> (Reinw., Blume et Nees) Mont.	222
*** <i>Plagiochila barbadensis</i> Steph.	239
* <i>Plagiochila barbata</i> Steph.	239
* <i>Plagiochila barbeyi</i> Steph.	239
*** <i>Plagiochila barteri</i> Mitt.	220
** <i>Plagiochila barteri</i> var. <i>valida</i> (Steph.) Vanden Berghen	220
* <i>Plagiochila batava</i> Steph.	239
*** <i>Plagiochila baylisii</i> Inoue et R.M.Schust.	231
*** <i>Plagiochila bazzanioides</i> J.J.Engel et G.L.Merr.	231
** <i>Plagiochila beddomei</i> Steph.	233
** <i>Plagiochila benitoi</i> Inoue ex Piippo.	225
* <i>Plagiochila berggrenii</i> Steph.	239
** <i>Plagiochila beskeana</i> Steph.	239
** <i>Plagiochila bialata</i> Mitt.	239
* <i>Plagiochila biapiculata</i> Steph.	239
* <i>Plagiochila bicaudata</i> Steph.	239
** <i>Plagiochila biciliata</i> Steph.	239
** <i>Plagiochila bicornis</i> Hampe et Gottsche.	239
** <i>Plagiochila bicornuta</i> Steph.	224
*** <i>Plagiochila bicuspidata</i> Gottsche.	230
*** <i>Plagiochila bidens</i> Gottsche	220
* <i>Plagiochila bidentula</i> Steph.	239
*** <i>Plagiochila bifaria</i> (Sw.) Lindenb.	220
** <i>Plagiochila bifaria</i> var. <i>rosea</i> (R.M.Schust.) Heinrichs	220
** <i>Plagiochila binghamiae</i> A.Evans.	239
** <i>Plagiochila binominata</i> Steph.	239
*** <i>Plagiochila biondiana</i> C.Massal.	229
*** <i>Plagiochila bischleriana</i> Grolle et M.L.So.	228
** <i>Plagiochila bitexta</i> Dugas.	239
** <i>Plagiochila blepharobasis</i> Herzog.	239
*** <i>Plagiochila blepharophora</i> (Nees) Lindenb.	222

**	<i>Plagiochila bogotensis</i> Gottsche	239
***	<i>Plagiochila boivinii</i> Steph.	233
*	<i>Plagiochila boliviana</i> Spruce	239
*	<i>Plagiochila borneensis</i> Steph.	239
***	<i>Plagiochila boryana</i> Gottsche	226
**	<i>Plagiochila brassii</i> Inoue et Grolle	240
***	<i>Plagiochila breuteliana</i> Lindenb.	226
*	<i>Plagiochila brevicalycina</i> Lindenb. et Gottsche	240
**	<i>Plagiochila britannica</i> Paton	228
**	<i>Plagiochila brunneola</i> Steph.	240
***	<i>Plagiochila bryhmii</i> Steph.	240
***	<i>Plagiochila bryopteroides</i> Spruce	233
***	<i>Plagiochila buchtiniana</i> Steph.	225
**	<i>Plagiochila bunburii</i> Taylor	240
*	<i>Plagiochila byssacea</i> Hampe	240
**	<i>Plagiochila caducidentata</i> R.M.Schust.	240
**	<i>Plagiochila caducifolia</i> Inoue et R.M.Schust.	240
**	<i>Plagiochila caduciloba</i> H.L.Blomq.	230
**	<i>Plagiochila caldana</i> Steph.	240
**	<i>Plagiochila callaensis</i> Steph.	240
*	<i>Plagiochila camusii</i> Steph.	240
***	<i>Plagiochila canelensis</i> Steph.	226
*	<i>Plagiochila capillicaulis</i> Steph.	240
**	<i>Plagiochila caribbeania</i> R.M.Schust.	240
***	<i>Plagiochila carringtonii</i> (Balf. ex Carrington) Grolle	229
**	<i>Plagiochila carringtonii</i> subsp. <i>lobuchensis</i> Grolle	229
**	<i>Plagiochila caulimammillosa</i> Grolle et M.L.So	227
*	<i>Plagiochila cava</i> Steph.	240
**	<i>Plagiochila ceylanica</i> Mitt.	240
***	<i>Plagiochila chacabucensis</i> Steph.	220
**	<i>Plagiochila chacoënsis</i> Herzog	240
**	<i>Plagiochila chauviniana</i> Mont.	222
***	<i>Plagiochila chenii</i> Grolle et M.L.So	231
**	<i>Plagiochila chiloënsis</i> Steph.	240
**	<i>Plagiochila chimborazensis</i> Spruce	230
**	<i>Plagiochila chinantlana</i> Gottsche	240
***	<i>Plagiochila chinensis</i> Steph.	228
*	<i>Plagiochila chiovendae</i> Gola	240
**	<i>Plagiochila chonotica</i> Taylor	223
*	<i>Plagiochila cinchonae</i> Steph.	240
***	<i>Plagiochila circinalis</i> (Lehm. et Lindenb.) Lehm.	231
**	<i>Plagiochila circinalis</i> var. <i>hemicardia</i> (Hook.f. et Taylor) J.J.Engel et G.L.Merr.	231
***	<i>Plagiochila circumdentata</i> Steph.	228
**	<i>Plagiochila circumdentata</i> var. <i>carinata</i> J.J.Engel et G.L.Merr.	228
**	<i>Plagiochila circumserrata</i> Inoue et Grolle	228
*	<i>Plagiochila circumvoluta</i> Gerola	240
**	<i>Plagiochila clavatosaccata</i> Steph.	222
***	<i>Plagiochila cleefii</i> Inoue	240
**	<i>Plagiochila cobana</i> Steph.	222
***	<i>Plagiochila colensoi</i> Hook.f. et Taylor	231
**	<i>Plagiochila colensoi</i> var. <i>quinquespina</i> (Steph.) J.J.Engel et G.L.Merr.	231
***	<i>Plagiochila colorans</i> Steph.	220

**	<i>Plagiochila columbiana</i> A.Evans.....	228
*	<i>Plagiochila concava</i> Nees	240
**	<i>Plagiochila conduplicata</i> Steph.	240
*	<i>Plagiochila conferta</i> Steph.	240
**	<i>Plagiochila confertissima</i> Steph.	240
**	<i>Plagiochila connata</i> Lindenb. et Gottsche	240
**	<i>Plagiochila contigua</i> Gottsche	233
**	<i>Plagiochila contorta</i> Lindenb. et Hampe	240
**	<i>Plagiochila convoluta</i> Steph.	240
**	<i>Plagiochila convolutifolia</i> Steph.	240
***	<i>Plagiochila corrugata</i> (Nees) Nees et Mont.	233
**	<i>Plagiochila corticola</i> Steph.	231
***	<i>Plagiochila corymbulosa</i> Pearson.....	241
**	<i>Plagiochila costariensis</i> Horik.	241
**	<i>Plagiochila crispabilis</i> Lindenb.	241
*	<i>Plagiochila crispabilis</i> var. <i>minima</i> Lindenb.	241
***	<i>Plagiochila cristata</i> (Sw.) Lindenb.	220
**	<i>Plagiochila cristophylla</i> Steph.	241
**	<i>Plagiochila crozetensis</i> Kaal.....	224
***	<i>Plagiochila cuatrecasii</i> H.Rob.	241
**	<i>Plagiochila cubensis</i> Steph.	241
**	<i>Plagiochila cucullata</i> Lindenb. et Gottsche.....	241
***	<i>Plagiochila cucullifolia</i> J.B.Jack et Steph.	226
***	<i>Plagiochila cucullifolia</i> var. <i>anomala</i> Heinrichs et Gradst.	226
*	<i>Plagiochila cuervina</i> Gottsche.....	241
***	<i>Plagiochila cumingiana</i> Steph.	221
*	<i>Plagiochila cuneata</i> Lindenb. et Gottsche	230
***	<i>Plagiochila cuspidata</i> Steph.	233
**	<i>Plagiochila cymata</i> Inoue et Grolle.....	233
***	<i>Plagiochila debilis</i> Mitt.	230
***	<i>Plagiochila deflexa</i> Mont. et Gottsche	230
**	<i>Plagiochila deflexirama</i> Taylor	233
***	<i>Plagiochila defolians</i> Grolle et M.L.So	230
**	<i>Plagiochila delapsa</i> Inoue	241
***	<i>Plagiochila delavayi</i> Steph.....	228
*	<i>Plagiochila delognei</i> Steph.	241
***	<i>Plagiochila deltoidea</i> Lindenb.	224
**	<i>Plagiochila deltoidea</i> var. <i>densa</i> J.J.Engel et G.L.Merr.	224
**	<i>Plagiochila denigrata</i> Inoue.....	241
**	<i>Plagiochila densa</i> Herzog	241
**	<i>Plagiochila densiflora</i> Herzog.....	241
**	<i>Plagiochila densiramosa</i> Steph.....	241
***	<i>Plagiochila denticulata</i> Mitt.	222
***	<i>Plagiochila dependula</i> Taylor	225
**	<i>Plagiochila depeana</i> Steph.	241
**	<i>Plagiochila desciscens</i> Steph.	241
**	<i>Plagiochila detecta</i> M.L.So et Grolle	222
***	<i>Plagiochila devexa</i> Steph.	227
***	<i>Plagiochila dichotoma</i> (P.Beauv.) Nees et Mont.....	233
*	<i>Plagiochila dichotoma</i> var. <i>fluitans</i> Spruce	233
*	<i>Plagiochila dilatata</i> Steph.	241
***	<i>Plagiochila dimorpha</i> Lindenb. et Gottsche	226

***	<i>Plagiochila dissecta</i> Steph.	233
*	<i>Plagiochila distans</i> Colenso	241
***	<i>Plagiochila disticha</i> (Lehm. et Lindenb.) Lindenb.	234
**	<i>Plagiochila distinctifolia</i> Lindenb.	234
**	<i>Plagiochila divaricata</i> Lindenb.	241
***	<i>Plagiochila divergens</i> Steph.	234
***	<i>Plagiochila diversifolia</i> Lindenb. et Gottsche.	225
*	<i>Plagiochila doerfleri</i> Steph.	241
**	<i>Plagiochila dolichoblasta</i> Herzog	241
***	<i>Plagiochila dominicensis</i> Taylor	226
***	<i>Plagiochila drepanophylla</i> Sande Lac.	234
*	<i>Plagiochila drepanophylla</i> var. <i>minor</i> Gottsche	234
**	<i>Plagiochila dura</i> De Not.	224
***	<i>Plagiochila durelii</i> Schiffn.	227
**	<i>Plagiochila durelii</i> subsp. <i>guizhouensis</i> Grolle et M.L.So	227
**	<i>Plagiochila dusenii</i> Steph.	224
**	<i>Plagiochila dussiana</i> Steph.	241
***	<i>Plagiochila duthiana</i> Steph.	229
**	<i>Plagiochila echinata</i> R.M.Schust.	241
**	<i>Plagiochila echinella</i> Gottsche.	241
*	<i>Plagiochila ecuadorensis</i> Steph.	241
***	<i>Plagiochila ecuadorica</i> (Inoue) L.Söderstr.	226
***	<i>Plagiochila effusa</i> Steph.	234
*	<i>Plagiochila effusa</i> var. <i>decurrens</i> Steph.	234
*	<i>Plagiochila effuseintricata</i> Steph.	242
**	<i>Plagiochila eggertii</i> Inoue	242
**	<i>Plagiochila ekmanii</i> S.W.Arnell	242
**	<i>Plagiochila elata</i> Taylor	224
*	<i>Plagiochila electa</i> Steph.	242
***	<i>Plagiochila elegans</i> Mitt.	228
*	<i>Plagiochila elegantula</i> Herzog	242
*	<i>Plagiochila emarginatobidentula</i> Steph.	242
***	<i>Plagiochila emeiensis</i> Grolle et M.L.So	220
***	<i>Plagiochila ensiformis</i> Taylor	226
**	<i>Plagiochila equitans</i> Gottsche	223
***	<i>Plagiochila ericicola</i> Steph.	234
**	<i>Plagiochila erlangensis</i> M.L.So	229
*	<i>Plagiochila erythraeae</i> Herzog	242
**	<i>Plagiochila estrellensis</i> Herzog	242
**	<i>Plagiochila eurydictyon</i> Herzog	242
*	<i>Plagiochila excisa</i> Steph.	242
**	<i>Plagiochila exesa</i> Lindenb. et Gottsche.	242
***	<i>Plagiochila exigua</i> (Taylor) Taylor	230
*	<i>Plagiochila exilis</i> Colenso	242
**	<i>Plagiochila exinnovata</i> Steph.	234
**	<i>Plagiochila expansa</i> Gottsche	242
**	<i>Plagiochila facallonia</i> Steph.	242
*	<i>Plagiochila falcato-oblonga</i> Steph.	242
**	<i>Plagiochila fallax</i> Lindenb. et Hampe	242
**	<i>Plagiochila fasciculata</i> Lindenb.	231
**	<i>Plagiochila fastigiata</i> Lindenb. et Gottsche	234
**	<i>Plagiochila faxinensis</i> Schiffn.	242

**	<i>Plagiochila fendleri</i> Mont.....	242
*	<i>Plagiochila filicicola</i> Steph.	242
**	<i>Plagiochila fissidentoides</i> Taylor.....	242
***	<i>Plagiochila flabellata</i> Steph.	234
***	<i>Plagiochila flabelliflora</i> Steph.	226
*	<i>Plagiochila flabellifrons</i> Spruce.....	242
**	<i>Plagiochila flava</i> Steph.....	242
**	<i>Plagiochila flavescens</i> (Gottsche, Lindenb. et Nees) Gottsche	242
*	<i>Plagiochila flavorufescens</i> Steph.	242
**	<i>Plagiochila flexicaulis</i> Mont.	225
***	<i>Plagiochila flexuosa</i> Mitt.	232
**	<i>Plagiochila floridana</i> A.Evans.....	234
**	<i>Plagiochila footei</i> A.Evans	242
***	<i>Plagiochila fordiana</i> Steph.	234
*	<i>Plagiochila formosa</i> Nees.....	242
**	<i>Plagiochila fracta</i> Pócs	230
*	<i>Plagiochila fragilis</i> Taylor	221
***	<i>Plagiochila fragillima</i> Steph.	222
**	<i>Plagiochila fragmentata</i> R.M.Schust.	243
*	<i>Plagiochila fragmentissima</i> Inoue et R.M.Schust.	223
**	<i>Plagiochila francana</i> Steph.....	234
*	<i>Plagiochila frausa</i> Gottsche.....	243
*	<i>Plagiochila frausa</i> var. <i>boliviana</i> Spruce	243
**	<i>Plagiochila fraxjorgensis</i> Hässel.....	243
***	<i>Plagiochila frondescens</i> (Nees) Lindenb.	225
***	<i>Plagiochila fruticosa</i> Mitt.	225
***	<i>Plagiochila furcifolia</i> Mitt.	234
***	<i>Plagiochila fusca</i> Sande Lac.....	231
**	<i>Plagiochila fuscella</i> (Hook.f. et Taylor) Gottsche, Lindenb. et Nees.....	231
**	<i>Plagiochila fuscella</i> var. <i>novae-zelandiae</i> (E.A.Hodgs.) J.J.Engel et G.L.Merr.....	231
***	<i>Plagiochila fuscolutea</i> Taylor	225
***	<i>Plagiochila fusifera</i> Taylor.....	234
*	<i>Plagiochila gaffatensis</i> Gottsche ex Schweinf.	243
**	<i>Plagiochila gaudichaudii</i> Mont. et Gottsche.....	243
**	<i>Plagiochila geniculata</i> Lindenb.....	243
*	<i>Plagiochila geppii</i> Steph.	243
**	<i>Plagiochila germana</i> Gottsche.....	243
**	<i>Plagiochila germanii</i> Steph.....	24,
***	<i>Plagiochila ghatiensis</i> Steph.....	230
*	<i>Plagiochila gibbiflora</i> Steph.....	243
***	<i>Plagiochila gigantea</i> Lindenb.	223
**	<i>Plagiochila gigantea</i> var. <i>inermis</i> J.J.Engel et G.L.Merr.	223
**	<i>Plagiochila gittinsii</i> Inoue	243
*	<i>Plagiochila glauca</i> Carl.....	243
*	<i>Plagiochila gracilicaulis</i> Spruce.....	243
***	<i>Plagiochila gracilis</i> Lindenb. et Gottsche.....	232
**	<i>Plagiochila gracillima</i> Austin.....	243
*	<i>Plagiochila granatensis</i> Gottsche.....	243
***	<i>Plagiochila grandicrista</i> Steph.	220
**	<i>Plagiochila granditexta</i> Steph.	243
**	<i>Plagiochila grateloupii</i> Mont.	243
***	<i>Plagiochila gregaria</i> (Hook.f. et Taylor) Gottsche, Lindenb. et Nees.....	223

**	<i>Plagiochila grollei</i> Inoue.....	227
***	<i>Plagiochila grossa</i> Grolle et M.L.So.....	230
**	<i>Plagiochila grossispina</i> Steph.	222
**	<i>Plagiochila guatemalensis</i> Steph.....	243
**	<i>Plagiochila guevarii</i> H.Rob.	226
**	<i>Plagiochila guttisuama</i> Inoue et Grolle.....	243
***	<i>Plagiochila gymnocalycina</i> (Lehm. et Lindenb.) Mont. et Nees.....	230
**	<i>Plagiochila gymnocalycina</i> var. <i>surinamensis</i> (Molk.) Heinrichs et D.S.Rycroft.....	230
**	<i>Plagiochila gymnocalyx</i> Inoue.....	243
***	<i>Plagiochila gymnoclada</i> Sande Lac.....	232
**	<i>Plagiochila haeseliae</i> Inoue.....	243
***	<i>Plagiochila hakkodensis</i> Steph.	228
***	<i>Plagiochila hampeana</i> Gottsche	234
*	<i>Plagiochila hans-meyeri</i> Steph.	243
**	<i>Plagiochila harlingii</i> S.W.Arnell	243
**	<i>Plagiochila haumanii</i> Herzog.....	244
**	<i>Plagiochila hawaica</i> Steph.	244
***	<i>Plagiochila herminieri</i> Steph.	220
**	<i>Plagiochila heteracantha</i> Steph.	244
**	<i>Plagiochila heterodonta</i> (Hook.f. et Taylor) Gottsche, Lindenb. et Nees	224
*	<i>Plagiochila heterofolia</i> Steph.	244
***	<i>Plagiochila heteromalla</i> (Lehm. et Lindenb.) Lindenb.....	220
**	<i>Plagiochila heterophylla</i> Lindenb.....	225
**	<i>Plagiochila heterophylla</i> var. <i>beauverdii</i> (Steph.) Heinrichs	225
*	<i>Plagiochila heterospina</i> Steph.	234
*	<i>Plagiochila heterostipa</i> Steph.	234
*	<i>Plagiochila hieronymii</i> Steph.....	244
***	<i>Plagiochila himalayana</i> Schiffn.	232
**	<i>Plagiochila hiroshiana</i> Pócs.....	244
**	<i>Plagiochila hoehnei</i> Herzog.....	244
**	<i>Plagiochila hoei</i> Inoue.....	227
*	<i>Plagiochila holstii</i> Steph.	244
**	<i>Plagiochila hookeriana</i> Lindenb.	223
**	<i>Plagiochila horrida</i> Gottsche.....	244
*	<i>Plagiochila huatuscana</i> Gottsche.....	244
**	<i>Plagiochila huerlimannii</i> Inoue.....	244
*	<i>Plagiochila humboldtiana</i> Gottsche.....	244
**	<i>Plagiochila husnotii</i> Steph.	226
**	<i>Plagiochila hyalina</i> Lindenb.....	224
**	<i>Plagiochila hyalodermica</i> Grolle et M.L.So.....	227
**	<i>Plagiochila incerta</i> Gottsche.....	234
*	<i>Plagiochila incisa</i> Dugas	244
**	<i>Plagiochila incurvicolla</i> (Hook.f. et Taylor) Gottsche, Lindenb. et Nees	232
**	<i>Plagiochila incurvicolla</i> var. <i>lonchoscypha</i> (Herzog) J.J.Engel et G.L.Merr.	232
***	<i>Plagiochila indica</i> Mitt. ex Steph.	234
**	<i>Plagiochila inflata</i> Steph.	244
*	<i>Plagiochila informifolia</i> Steph.	244
**	<i>Plagiochila infusata</i> Mitt.	244
*	<i>Plagiochila injasutiensis</i> S.W.Arnell.....	244
**	<i>Plagiochila inouei</i> Grolle.....	244
**	<i>Plagiochila insularia</i> Mitt.	244
***	<i>Plagiochila integerrima</i> Steph.....	222

* <i>Plagiochila integrilobula</i> Schiffn.....	222
** <i>Plagiochila intertexta</i> Hook.f. et Taylor	244
* <i>Plagiochila inuensis</i> Steph.	244
** <i>Plagiochila invisa</i> (R.M.Schust.) R.M.Schust.	244
** <i>Plagiochila irregularis</i> Gottsche.....	244
** <i>Plagiochila itatiajensis</i> Steph.	244
** <i>Plagiochila jacquinotii</i> Mont.....	244
** <i>Plagiochila jamaicensis</i> Lindenb. et Hampe.....	244
** <i>Plagiochila jaramillii</i> H.Rob.....	244
*** <i>Plagiochila javanica</i> (Sw.) Nees et Mont.....	234
** <i>Plagiochila johannis-winkleri</i> Herzog	222
*** <i>Plagiochila jungbuhniana</i> Sande Lac.	235
* <i>Plagiochila karstenii</i> Steph.	244
* <i>Plagiochila kaulfussiana</i> Steph.	244
** <i>Plagiochila keckiana</i> Steph.....	244
** <i>Plagiochila kerneriana</i> S.W.Arnell	245
*** <i>Plagiochila khasiana</i> Mitt.	235
** <i>Plagiochila kiaeri</i> Gottsche	235
** <i>Plagiochila kiaeri</i> var. <i>capensis</i> (Steph.) M.Wigginton et Grolle	235
** <i>Plagiochila kiaeri</i> var. <i>myriocarpa</i> (Pearson) Pócs	235
** <i>Plagiochila koponenii</i> Inoue et Piippo	245
** <i>Plagiochila korthalsiana</i> Molk.....	228
* <i>Plagiochila kuhliana</i> Sande Lac.....	228
*** <i>Plagiochila kunmingensis</i> Piippo	235
** <i>Plagiochila kurokawae</i> Inoue	235
** <i>Plagiochila kurzii</i> Steph.	223
* <i>Plagiochila lacerifolia</i> Steph.	245
* <i>Plagiochila lachenaudii</i> Steph.	245
* <i>Plagiochila laciniosa</i> Dugas	245
*** <i>Plagiochila laetevirens</i> Lindenb.	245
* <i>Plagiochila laevifolia</i> Gola.....	245
** <i>Plagiochila lamellistipula</i> Spruce	235
** <i>Plagiochila lansbergii</i> Gottsche.....	245
*** <i>Plagiochila lastii</i> Mitt.	235
** <i>Plagiochila latifolia</i> Steph.	235
** <i>Plagiochila latifrons</i> Gottsche et Hampe	224
** <i>Plagiochila latitrigona</i> Schiffn.	245
* <i>Plagiochila laxiramea</i> Steph.	245
** <i>Plagiochila lechleri</i> Gottsche	225
* <i>Plagiochila lecontei</i> Steph.	245
* <i>Plagiochila ledermanniana</i> Beauverd	245
* <i>Plagiochila ledieui</i> Steph.	245
** <i>Plagiochila lehmanniana</i> S.W.Arnell.....	245
** <i>Plagiochila liebmanniana</i> Lehm. et Lindenb.	245
* <i>Plagiochila lignicola</i> Spruce.....	245
* <i>Plagiochila lindauii</i> Steph.	245
* <i>Plagiochila lindigiana</i> Gottsche	245
** <i>Plagiochila lingua</i> Steph.	245
* <i>Plagiochila loloënsis</i> Steph.	235
* <i>Plagiochila longifissa</i> Steph.....	245
** <i>Plagiochila longiflora</i> Mont.....	227
*** <i>Plagiochila longiramea</i> Steph.	225

***	<i>Plagiochila longispina</i> Lindenb. et Gottsche.....	225
**	<i>Plagiochila lophocoleoides</i> Mont.	227
**	<i>Plagiochila loriana</i> Steph.	228
**	<i>Plagiochila loriloba</i> Herzog ex Carl.....	230
*	<i>Plagiochila lotsyana</i> Steph.	245
***	<i>Plagiochila lunata</i> S.W.Arnell.....	221
*	<i>Plagiochila luteola</i> Steph.	245
**	<i>Plagiochila lutescens</i> Steph.	245
**	<i>Plagiochila luzonensis</i> Grolle et M.L.So	245
*	<i>Plagiochila macra</i> Taylor	246
**	<i>Plagiochila macrifolia</i> Taylor	246
*	<i>Plagiochila macrifolia</i> var. <i>angustifolia</i> Spruce	246
***	<i>Plagiochila macrostachya</i> Lindenb.	226
**	<i>Plagiochila maderensis</i> Gottsche ex Steph.....	230
**	<i>Plagiochila magna</i> Inoue.....	227
**	<i>Plagiochila manillana</i> Mont. et Gottsche.....	235
***	<i>Plagiochila martiana</i> (Nees) Lindenb.....	246
**	<i>Plagiochila massalongoana</i> Schiffn.....	235
**	<i>Plagiochila mastigophoroides</i> Inoue.....	235
*	<i>Plagiochila matanga</i> Steph.....	246
**	<i>Plagiochila mauiensis</i> Steph.	225
**	<i>Plagiochila maunakeana</i> Steph.....	246
**	<i>Plagiochila maximiliana</i> Gottsche.....	246
**	<i>Plagiochila meghalayensis</i> K.K.Rawat et S.C.Srivast.	246
**	<i>Plagiochila meridana</i> Gottsche	246
**	<i>Plagiochila metcalffi</i> Steph.	233
**	<i>Plagiochila microdentata</i> M.L.So	228
**	<i>Plagiochila microdictyon</i> Mitt.....	232
**	<i>Plagiochila microdonta</i> Mitt.....	246
**	<i>Plagiochila micropteryx</i> Gottsche.....	235
*	<i>Plagiochila mildbreadiana</i> Beauverd	247
**	<i>Plagiochila minarum</i> Herzog	247
**	<i>Plagiochila minutiretis</i> Reimers.....	247
**	<i>Plagiochila minutula</i> (Hook.f. et Taylor) Gottsche, Lindenb. et Nees.....	224
**	<i>Plagiochila miqueliana</i> Lehm. et Lindenb.....	246
**	<i>Plagiochila miradorensis</i> Gottsche	235
**	<i>Plagiochila miradorensis</i> var. <i>convoluta</i> R.M.Schust.....	235
*	<i>Plagiochila moenkemeyeri</i> Steph.	235
**	<i>Plagiochila molliuscula</i> Inoue.....	246
**	<i>Plagiochila mollusca</i> Lehm.	246
**	<i>Plagiochila moniliformis</i> R.M.Schust.	246
**	<i>Plagiochila monospiris</i> Inoue et Grolle	232
***	<i>Plagiochila montagnei</i> Nees.....	235
**	<i>Plagiochila morobensis</i> Inoue et Piippo.....	236
**	<i>Plagiochila muelleriana</i> Gottsche	246
*	<i>Plagiochila multiflora</i> Steph.	246
**	<i>Plagiochila multipinnula</i> Herzog et S.Hatt.	236
**	<i>Plagiochila mundaliensis</i> Steph.....	228
**	<i>Plagiochila mutila</i> Gottsche.....	246
*	<i>Plagiochila naranjoënsis</i> Steph.....	246
***	<i>Plagiochila neckeroidea</i> Mitt.	236
**	<i>Plagiochila neesiana</i> Lindenb.	246

* <i>Plagiochila neglecta</i> Steph.	246
* <i>Plagiochila negrensis</i> Spruce	246
* <i>Plagiochila negrii</i> Gola.....	246
*** <i>Plagiochila nepalensis</i> Lindenb.	236
* <i>Plagiochila nigricaulis</i> Steph.	247
*** <i>Plagiochila nitens</i> Inoue.....	232
*** <i>Plagiochila nobilis</i> Gottsche.....	224
** <i>Plagiochila norfolkiensis</i> Steph.....	236
* <i>Plagiochila notha</i> Steph.	247
* <i>Plagiochila nova</i> Steph.....	247
** <i>Plagiochila nudifolia</i> (Steph.) Grolle.....	247
** <i>Plagiochila nutans</i> Steph.....	247
7* <i>Plagiochila obliquetruncata</i> Steph.	247
** <i>Plagiochila oblonga</i> Inoue	247
** <i>Plagiochila obovata</i> Steph.	224
*** <i>Plagiochila obrusa</i> Lindenb.	236
** <i>Plagiochila oerstediana</i> Lindenb. et Hampe.....	247
** <i>Plagiochila olivacea</i> Steph.	247
** <i>Plagiochila orbicularis</i> (S.Hatt.) S.Hatt.	228
** <i>Plagiochila oresitropha</i> Spruce.....	230
* <i>Plagiochila ornata</i> Wilson ex Lindenb.	247
*** <i>Plagiochila ovalifolia</i> Mitt.....	228
*** <i>Plagiochila ovata</i> Lindenb. et Gottsche.....	224
* <i>Plagiochila ovato-obconica</i> Steph.	247
* <i>Plagiochila ovifolia</i> Steph.	247
* <i>Plagiochila owaihiensis</i> Nees et Lindenb.	234
*** <i>Plagiochila pachyloma</i> Taylor.....	221
* <i>Plagiochila pachyloma</i> var. <i>elatior</i> Spruce	221
** <i>Plagiochila pacifica</i> Mitt.	234
** <i>Plagiochila palangiensis</i> S.C.Srivast., K.K.Rawat et P.K.Verma.....	247
** <i>Plagiochila panamensis</i> Inoue.....	247
** <i>Plagiochila papillifolia</i> Steph.....	221
** <i>Plagiochila parallela</i> Steph.....	236
** <i>Plagiochila paramicola</i> Herzog.....	247
*** <i>Plagiochila paraphyllina</i> Herzog.....	225
** <i>Plagiochila paraphyllosa</i> Grolle et M.L.So.....	227
*** <i>Plagiochila parvifolia</i> Lindenb.	234
*** <i>Plagiochila parviramifera</i> Inoue	221
* <i>Plagiochila parvitexta</i> Steph.	247
** <i>Plagiochila parvivittata</i> Inoue.....	247
* <i>Plagiochila parvula</i> Steph.	247
* <i>Plagiochila pastasensis</i> Steph.....	247
** <i>Plagiochila patentispina</i> Steph.....	247
*** <i>Plagiochila patentissima</i> Lindenb.	247
*** <i>Plagiochila patriciae</i> Heinrichs et H.Anton.....	226
*** <i>Plagiochila patula</i> (Sw.) Lindenb.	236
** <i>Plagiochila patula</i> var. <i>brevifolia</i> Gottsche.....	236
** <i>Plagiochila patuloides</i> Schiffn.	247
** <i>Plagiochila paucidentata</i> Mont. et Gottsche.....	236
** <i>Plagiochila paupercula</i> Gottsche.....	247
* <i>Plagiochila pearceana</i> Steph.	247

***	<i>Plagiochila pectinata</i> Lindenb.	230
**	<i>Plagiochila peculiaris</i> Schiffn.	227
**	<i>Plagiochila pellucida</i> Lindenb. et Gottsche.	247
**	<i>Plagiochila pensilis</i> Spruce.	236
**	<i>Plagiochila peradenyensis</i> Schiffn.	236
**	<i>Plagiochila perdentata</i> M.L.So et Grolle.	236
**	<i>Plagiochila perrottetiana</i> Mont. et Gottsche.	248
**	<i>Plagiochila perrottetiana</i> var. <i>minor</i> Gottsche.	248
***	<i>Plagiochila perserrata</i> Herzog.	227
**	<i>Plagiochila philippinensis</i> Steph.	227
**	<i>Plagiochila pilifera</i> Steph.	248
**	<i>Plagiochila pinnatidens</i> Steph.	248
***	<i>Plagiochila pinniflora</i> Steph.	236
**	<i>Plagiochila pittieri</i> Steph.	248
**	<i>Plagiochila platyphylla</i> Herzog.	248
***	<i>Plagiochila poeltii</i> Inoue et Grolle.	229
**	<i>Plagiochila polopolensis</i> Herzog.	248
***	<i>Plagiochila porelloides</i> (Torr. ex Nees) Lindenb.	229
**	<i>Plagiochila porelloides</i> var. <i>norvegica</i> (H.H.Blom et Holten) Schumacker et Váňa.	229
**	<i>Plagiochila porelloides</i> var. <i>subarctica</i> (Jørg.) Lammes.	229
***	<i>Plagiochila praemorsa</i> Steph.	236
**	<i>Plagiochila propinqua</i> Sande Lac.	236
*	<i>Plagiochila prostrata</i> Steph.	244
***	<i>Plagiochila pseudoattenuata</i> S.W.Arnell.	221
**	<i>Plagiochila pseudocapillaris</i> Inoue.	232
***	<i>Plagiochila pseudofirma</i> Herzog.	232
*	<i>Plagiochila pseudopatula</i> Herzog.	248
***	<i>Plagiochila pseudopoeltii</i> Inoue.	227
**	<i>Plagiochila pseudoradicans</i> Herzog.	248
***	<i>Plagiochila pseudorenitens</i> Schiffn.	222
**	<i>Plagiochila ptychantboidea</i> Steph.	248
**	<i>Plagiochila pulchella</i> Steph.	248
***	<i>Plagiochila pulcherrima</i> Horik.	225
**	<i>Plagiochila pulvinata</i> Steph.	248
***	<i>Plagiochila punctata</i> (Taylor) Taylor.	221
**	<i>Plagiochila purpurascens</i> Steph.	236
***	<i>Plagiochila raddiana</i> Lindenb.	236
**	<i>Plagiochila radiculosa</i> Mitt.	232
*	<i>Plagiochila ragazzii</i> Gola.	236
***	<i>Plagiochila ramosissima</i> (Hook.) Lindenb.	224
**	<i>Plagiochila ratkowskiana</i> Inoue.	248
***	<i>Plagiochila recurvata</i> (W.E.Nicholson) Grolle.	229
**	<i>Plagiochila regeliana</i> Steph.	248
**	<i>Plagiochila reischekiana</i> Steph.	223
**	<i>Plagiochila remyana</i> Steph.	248
***	<i>Plagiochila renauldii</i> Steph.	221
***	<i>Plagiochila renitens</i> (Nees) Lindenb.	227
***	<i>Plagiochila repanda</i> (Schwägr.) Lindenb.	236
**	<i>Plagiochila repanda</i> var. <i>perrotana</i> (Steph.) Vanden Berghen.	237
***	<i>Plagiochila retrorsa</i> Gottsche.	221
***	<i>Plagiochila retrospectans</i> Lindenb.	224
***	<i>Plagiochila retusa</i> Mitt.	229

***	<i>Plagiochila revolvens</i> Mitt.	248
**	<i>Plagiochila rigidula</i> Lindenb. et Gottsche	248
**	<i>Plagiochila riparia</i> Steph.	224
***	<i>Plagiochila rodriguezii</i> Steph.	237
**	<i>Plagiochila rosana</i> Steph.	248
***	<i>Plagiochila rubescens</i> (Lehm. et Lindenb.) Lindenb.	221
*	<i>Plagiochila rubricaulis</i> Steph.	221
***	<i>Plagiochila rudischusteri</i> H.Rob.	225
***	<i>Plagiochila rudolfii</i> Pócs.	237
*	<i>Plagiochila rufifolia</i> Steph.	248
**	<i>Plagiochila rufoviridis</i> Spruce	248
*	<i>Plagiochila rusbyi</i> Spruce	248
***	<i>Plagiochila rutilans</i> Lindenb.	230
***	<i>Plagiochila rutilans</i> var. <i>moritziana</i> (Lindenb. et Gottsche) Heinrichs.	230
***	<i>Plagiochila rutilans</i> var. <i>standleyi</i> (Herzog ex Carl) Heinrichs et D.S.Rycroft	230
**	<i>Plagiochila rutlandii</i> Steph.	224
*	<i>Plagiochila sabensis</i> Steph.	248
**	<i>Plagiochila sachapatensis</i> Steph.	248
***	<i>Plagiochila salacensis</i> Gottsche	237
**	<i>Plagiochila salazariae</i> Inoue	248
**	<i>Plagiochila saltuensis</i> Spruce ex Steph.	248
**	<i>Plagiochila saltuensis</i> var. <i>spinosissima</i> Herzog	249
***	<i>Plagiochila salvadorica</i> Steph.	237
*	<i>Plagiochila samoana</i> Steph.	249
***	<i>Plagiochila sandei</i> Dozy ex Sande Lac.	223
**	<i>Plagiochila sarmentosa</i> (Lehm. et Lindenb.) Lindenb.	249
*	<i>Plagiochila schiffneri</i> Steph.	249
*	<i>Plagiochila schinzei</i> Steph.	249
*	<i>Plagiochila schmidtii</i> Steph.	249
**	<i>Plagiochila schofieldiana</i> Inoue	229
*	<i>Plagiochila schraderbergii</i> Steph.	249
**	<i>Plagiochila schubertiana</i> Steph.	249
**	<i>Plagiochila schusteri</i> Inoue et Grolle	249
***	<i>Plagiochila sciophila</i> Nees	223
**	<i>Plagiochila sciophila</i> subsp. <i>ciliigera</i> (R.M.Schust.) L.Söderstr.	223
**	<i>Plagiochila scissifolia</i> Steph.	249
*	<i>Plagiochila scotica</i> Macvicar ex Steph.	249
***	<i>Plagiochila secretifolia</i> Mitt.	229
**	<i>Plagiochila semiamplexicaulis</i> Steph.	249
**	<i>Plagiochila semidecurrans</i> (Lehm. et Lindenb.) Lindenb.	227
**	<i>Plagiochila semidecurrans</i> var. <i>alaskana</i> (A.Evans) Inoue	227
**	<i>Plagiochila semiermis</i> Dugas	249
**	<i>Plagiochila serrialata</i> Herzog	237
***	<i>Plagiochila shangaica</i> Steph.	237
***	<i>Plagiochila sichuanensis</i> Grolle et M.L.So	221
**	<i>Plagiochila silvatica</i> Gottsche	249
*	<i>Plagiochila similis</i> Steph.	249
***	<i>Plagiochila simplex</i> (Sw.) Lindenb.	237
***	<i>Plagiochila singularis</i> Schiffn.	222
**	<i>Plagiochila sisparensis</i> Steph.	249
*	<i>Plagiochila slateri</i> Steph.	249
**	<i>Plagiochila solitaria</i> Gottsche	249

**	<i>Plagiochila spathulifolia</i> Mitt.	232
***	<i>Plagiochila spinifera</i> Ångstr.	249
**	<i>Plagiochila spinosa</i> M.L.So	229
***	<i>Plagiochila spinulosa</i> (Dicks.) Dumort.	221
*	<i>Plagiochila sprucei</i> Steph.	249
***	<i>Plagiochila squamulosa</i> Mitt.	237
**	<i>Plagiochila squamulosa</i> var. <i>crispulocaudata</i> (Gottsche) Vanden Berghen.	237
**	<i>Plagiochila squamulosa</i> var. <i>sinuosa</i> (Mitt.) Vanden Berghen.	237
*	<i>Plagiochila staudtiana</i> Steph.	249
*	<i>Plagiochila stephanii</i> Schiffn.	223
***	<i>Plagiochila stephensoniana</i> Mitt.	232
***	<i>Plagiochila stevensiana</i> Steph.	222
*	<i>Plagiochila steyermarkii</i> H.Rob.	231
**	<i>Plagiochila sticticola</i> Mont. et Gottsche	221
**	<i>Plagiochila stipata</i> Steph.	249
*	<i>Plagiochila stolzii</i> Steph.	249
**	<i>Plagiochila streimannii</i> Inoue.	237
***	<i>Plagiochila stricta</i> Lindenb.	221
***	<i>Plagiochila strictifolia</i> Steph.	237
**	<i>Plagiochila strombifolia</i> Taylor	231
***	<i>Plagiochila subbidentata</i> Taylor	225
**	<i>Plagiochila subcontigua</i> Herzog.	249
*	<i>Plagiochila subconvoluta</i> Gottsche.	249
*	<i>Plagiochila subdenudata</i> Steph.	249
**	<i>Plagiochila subdentata</i> Steph.	250
**	<i>Plagiochila subflabellata</i> Colenso	237
**	<i>Plagiochila subfragilis</i> Inoue.	250
*	<i>Plagiochila subhyalina</i> Steph.	250
**	<i>Plagiochila subjavanica</i> M.L.So	250
**	<i>Plagiochila subligulata</i> Steph.	250
**	<i>Plagiochila sublyallii</i> M.L.So.	250
**	<i>Plagiochila subpectinata</i> Besch. et C.Massal.	224
**	<i>Plagiochila subplana</i> Lindenb.	223
*	<i>Plagiochila subrara</i> Herzog	250
*	<i>Plagiochila subrotundifolia</i> Steph.	250
***	<i>Plagiochila subtropica</i> Steph.	237
**	<i>Plagiochila subundulata</i> Lindenb.	250
**	<i>Plagiochila sullivantii</i> Gottsche.	232
**	<i>Plagiochila sullivantii</i> var. <i>spinigera</i> R.M.Schust.	232
**	<i>Plagiochila sumatrana</i> Schiffn.	229
***	<i>Plagiochila superba</i> (Nees ex Spreng.) Mont. et Nees.	226
***	<i>Plagiochila superba</i> var. <i>macrotricha</i> (Spruce) Heinrichs.	226
*	<i>Plagiochila suringarii</i> Steph.	250
**	<i>Plagiochila sylvicultrix</i> Spruce	250
*	<i>Plagiochila symmetrica</i> Steph.	250
**	<i>Plagiochila tabinana</i> Gottsche	250
***	<i>Plagiochila tabinensis</i> Steph.	225
***	<i>Plagiochila tagawae</i> Inoue.	222
**	<i>Plagiochila taiwanensis</i> Inoue.	229
**	<i>Plagiochila talinayi</i> S.W.Arnell	250
**	<i>Plagiochila tamariscina</i> Steph.	237
**	<i>Plagiochila tambillensis</i> Loitl.	250

**	<i>Plagiochila tamiensis</i> Steph.	250
**	<i>Plagiochila tarapotensis</i> Steph.	250
**	<i>Plagiochila tecta</i> Inoue et Grolle	237
*	<i>Plagiochila tenera</i> Steph.	250
**	<i>Plagiochila tenuis</i> Lindenb.	250
*	<i>Plagiochila tenuispica</i> Steph.	250
***	<i>Plagiochila terebrans</i> Nees et Mont.	237
***	<i>Plagiochila teysmannii</i> Sande Lac.	237
**	<i>Plagiochila thamnopsis</i> Spruce	250
*	<i>Plagiochila thollonii</i> Steph.	250
**	<i>Plagiochila thrausta</i> Inoue et Grolle	250
**	<i>Plagiochila thyoides</i> Spruce	237
**	<i>Plagiochila tixieri</i> Inoue	222
**	<i>Plagiochila tocarema</i> Gottsche	237
*	<i>Plagiochila tonduzana</i> Steph.	250
**	<i>Plagiochila tortuosa</i> Lindenb. et Gottsche	250
*	<i>Plagiochila tovarina</i> Gottsche	250
***	<i>Plagiochila trabeculata</i> Steph.	232
*	<i>Plagiochila trabeculatospinosa</i> Herzog	250
*	<i>Plagiochila trabutii</i> Steph.	250
***	<i>Plagiochila trapezoidea</i> Lindenb.	229
**	<i>Plagiochila trianae</i> Gottsche	250
**	<i>Plagiochila trichomanes</i> Spruce	250
***	<i>Plagiochila trichostoma</i> Gottsche	231
*	<i>Plagiochila tricuspis</i> Steph.	250
**	<i>Plagiochila tristaniana</i> Váňa et J.J.Engel	251
**	<i>Plagiochila tristis</i> Steph.	251
**	<i>Plagiochila trollii</i> Herzog	251
***	<i>Plagiochila tronadoris</i> Herzog	221
**	<i>Plagiochila truncata</i> Gottsche	251
***	<i>Plagiochila turgida</i> Herzog	226
**	<i>Plagiochila ulata</i> Inoue et Grolle	237
**	<i>Plagiochila uleana</i> Steph.	251
**	<i>Plagiochila umbrosioides</i> L.Söderstr.	251
***	<i>Plagiochila uncialis</i> (Hook.f. et Taylor) Gottsche, Lindenb. et Nees	221
**	<i>Plagiochila undata</i> Sull.	237
**	<i>Plagiochila undata</i> subsp. <i>crispata</i> (Gottsche) R.M.Schust.	237
*	<i>Plagiochila unduavensis</i> Steph.	251
**	<i>Plagiochila ungarangana</i> Sande Lac.	238
**	<i>Plagiochila uniformis</i> Mitt.	229
*	<i>Plagiochila usambarana</i> Steph.	251
**	<i>Plagiochila validissima</i> Steph.	225
**	<i>Plagiochila variedentata</i> Steph.	251
**	<i>Plagiochila vastifolia</i> Steph.	251
**	<i>Plagiochila velata</i> Inoue et Piippo	251
*	<i>Plagiochila venezuelana</i> Steph.	251
*	<i>Plagiochila ventricosotrigona</i> Steph.	251
*	<i>Plagiochila verrucosa</i> Steph.	251
*	<i>Plagiochila vetustisilva</i> Steph.	251
***	<i>Plagiochila vexans</i> Schiffn. ex Steph.	227
*	<i>Plagiochila viminea</i> Spruce	251
***	<i>Plagiochila vincentina</i> Lindenb.	226

***	<i>Plagiochila virginica</i> A.Evans	238
**	<i>Plagiochila virginica</i> var. <i>caroliniana</i> R.M.Schust.....	238
**	<i>Plagiochila virginica</i> var. <i>euryphylla</i> R.M.Schust.	238
*	<i>Plagiochila viridis</i> Steph.	251
**	<i>Plagiochila viridonigra</i> (E.A.Hodgs.) Inoue	251
**	<i>Plagiochila vitiensis</i> Mitt.....	223
**	<i>Plagiochila vittiana</i> Inoue.....	251
**	<i>Plagiochila vittifolia</i> Steph.....	251
**	<i>Plagiochila vulcanica</i> Steph.....	251
**	<i>Plagiochila wacei</i> S.W.Arnell ex Váňa et J.J.Engel	251
***	<i>Plagiochila wallichiana</i> Steph.	229
*	<i>Plagiochila wallisiana</i> Steph.....	251
**	<i>Plagiochila wangii</i> Inoue	229
**	<i>Plagiochila watsiana</i> J.J.Engel et G.L.Merr.....	252
**	<i>Plagiochila wettsteiniana</i> S.W.Arnell.....	252
*	<i>Plagiochila weymouthiana</i> Steph.	252
**	<i>Plagiochila wiemanniana</i> S.W.Arnell.....	252
***	<i>Plagiochila wightii</i> Nees.....	238
**	<i>Plagiochila wilhelmina</i> Inoue.....	238
***	<i>Plagiochila wilmsiana</i> Steph.	221
***	<i>Plagiochila winteri</i> Steph.	252
**	<i>Plagiochila wrightii</i> Steph.	252
**	<i>Plagiochila xalapensis</i> Gottsche	252
*	<i>Plagiochila xanthochroma</i> Spruce.....	252
*	<i>Plagiochila yashinagana</i> Steph.....	252
**	<i>Plagiochila yulungensis</i> Piippo.....	229
**	<i>Plagiochila zacuapana</i> Gottsche.....	252
***	<i>Plagiochila zangii</i> Grolle et M.L.So	228
**	<i>Plagiochila zantenii</i> Inoue	238
***	<i>Plagiochila zhuensis</i> Grolle et M.L.So	222
***	<i>Plagiochila zonata</i> Steph.....	228
**	<i>Plagiochilidium bidentulum</i> (Steph.) Grolle.....	252
***	<i>Plagiochilion braunianum</i> (Nees) S.Hatt.	252
**	<i>Plagiochilion combinatum</i> (Mitt.) Inoue	252
***	<i>Plagiochilion conjugatum</i> (Hook.) R.M.Schust.	252
**	<i>Plagiochilion fimbriatum</i> (Mitt.) Inoue.....	252
**	<i>Plagiochilion giulianettii</i> (Steph.) Inoue.....	252
**	<i>Plagiochilion herzogii</i> Inoue.....	252
**	<i>Plagiochilion intermedium</i> R.M.Schust.	252
**	<i>Plagiochilion mayebarae</i> S.Hatt.....	253
***	<i>Plagiochilion oppositum</i> (Reinw., Blume et Nees) S.Hatt.	253
**	<i>Plagiochilion pachycephalum</i> (De Not.) Inoue.....	253
***	<i>Plagiochilion proliferum</i> (Mitt.) R.M.Schust.	253
**	<i>Plagiochilion theriotanum</i> (Steph.) Inoue.....	253
***	<i>Platycaulis renifolius</i> R.M.Schust.	218
*	<i>Plectocolea subamoena</i> S.Winkl.	511
***	<i>Pleurozia acinosa</i> (Mitt.) Trevis.....	462
***	<i>Pleurozia articulata</i> (Lindb.) Lindb. et Lackström	462
***	<i>Pleurozia caledonica</i> (Gottsche) Steph.	462
***	<i>Pleurozia conchifolia</i> (Hook. et Arn.) Austin.....	462
**	<i>Pleurozia conchifolia</i> var. <i>papillosa</i> B.M.Thiers.....	462
***	<i>Pleurozia curiosa</i> B.M.Thiers	462

***	<i>Pleurozia gigantea</i> (F.Weber) Lindb.	462
***	<i>Pleurozia heterophylla</i> Steph. ex Fulford	462
***	<i>Pleurozia johannis-winkleri</i> Herzog	462
***	<i>Pleurozia paradoxa</i> (J.B.Jack) Schiffn.	462
**	<i>Pleurozia pocsii</i> Frank Müll.	463
***	<i>Pleurozia purpurea</i> Lindb.	462
***	<i>Pleurozia subinflata</i> (Austin) Austin	462
***	<i>Plicanthus birmensis</i> (Steph.) R.M.Schust.	54
**	<i>Plicanthus difficilis</i> (Steph.) L.Söderstr. et Vána.	54
**	<i>Plicanthus giganteus</i> (Steph.) R.M.Schust.	54
***	<i>Plicanthus hirtellus</i> (F.Weber) R.M.Schust.	54
***	<i>Podomitrium malaccense</i> (Steph.) Campb.	471
***	<i>Podomitrium marginatum</i> (Steph.) Hürl.	471
***	<i>Podomitrium phyllanthus</i> (Hook.) Mitt.	471
***	<i>Poeltia campylata</i> Grolle.	114
*	<i>Polyotus peckianus</i> Austin	511
**	<i>Porella abyssinica</i> (Nees) Trevis.	417
**	<i>Porella abyssinica</i> var. <i>hoehnelii</i> (Steph.) Pócs.	417
**	<i>Porella acutifolia</i> (Lehm. et Lindenb.) Trevis.	417
**	<i>Porella acutifolia</i> var. <i>hattoriana</i> (Pócs) S.Hatt.	417
*	<i>Porella acutifolia</i> var. <i>linguifolia</i> (Steph.) M.L.So.	417
**	<i>Porella acutifolia</i> subsp. <i>tosana</i> (Steph.) S.Hatt.	417
*	<i>Porella andica</i> (Gottsche) Hässel	417
***	<i>Porella arboris-vitae</i> (With.) Grolle.	418
**	<i>Porella arboris-vitae</i> subsp. <i>nitidula</i> (C.Massal.) S.Hatt.	418
**	<i>Porella baueri</i> (Schiffn.) C.E.O.Jensen	418
**	<i>Porella bolanderi</i> (Austin) Pearson	418
**	<i>Porella borellii</i> (Gola) Parihar	418
***	<i>Porella brachiata</i> (Taylor) Spruce	418
***	<i>Porella brasiliensis</i> (Raddi) Schiffn.	418
*	<i>Porella brasiliensis</i> var. <i>ciliata</i> (Gottsche, Lindenb. et Nees) Schiffn.	418
*	<i>Porella brasiliensis</i> var. <i>laevior</i> (Gottsche, Lindenb. et Nees) Schiffn.	418
**	<i>Porella caespitans</i> (Steph.) S.Hatt.	418
**	<i>Porella caespitans</i> var. <i>cordifolia</i> (Steph.) S.Hatt. ex T.Katag. et T.Yamag.	418
**	<i>Porella caespitans</i> subsp. <i>latior</i> (S.Hatt.) S.Hatt.	418
**	<i>Porella caespitans</i> var. <i>nipponica</i> S.Hatt.	418
**	<i>Porella caespitans</i> var. <i>reflexigastria</i> (Pócs) S.Hatt.	419
**	<i>Porella campylophylla</i> (Lehm. et Lindenb.) Trevis.	419
**	<i>Porella campylophylla</i> subsp. <i>lancistipula</i> (Steph.) S.Hatt.	419
**	<i>Porella campylophylla</i> var. <i>ligulifera</i> (Taylor) S.Hatt.	419
**	<i>Porella campylophylla</i> var. <i>tixieri</i> (Pócs) S.Hatt.	419
**	<i>Porella canariensis</i> (F.Weber) Underw.	419
*	<i>Porella capehorniensis</i> Swails	419
**	<i>Porella capensis</i> (Gottsche) Mitt.	419
*	<i>Porella caucasica</i> Steph.	419
**	<i>Porella chenii</i> S.Hatt.	419
***	<i>Porella chilensis</i> (Lehm. et Lindenb.) Trevis.	419
*	<i>Porella chilensis</i> var. <i>antucensis</i> (Gottsche) Hässel.	419
**	<i>Porella chilensis</i> var. <i>fernandeziensis</i> (Herzog) Swails	419
**	<i>Porella chilensis</i> var. <i>microloba</i> (Herzog) Swails	419
**	<i>Porella chinensis</i> (Steph.) S.Hatt.	419
**	<i>Porella chinensis</i> var. <i>crispata</i> Udari et Shaheen	420

**	<i>Porella chinensis</i> var. <i>decurrens</i> (Steph.) S.Hatt.....	420
**	<i>Porella chinensis</i> var. <i>hattorii</i> Udar et Shaheen	420
**	<i>Porella chinensis</i> var. <i>irregularis</i> (Steph.) S.Hatt.	420
**	<i>Porella circinnata</i> Lindb.	420
***	<i>Porella cordaeana</i> (Huebener) Moore	420
**	<i>Porella cranfordii</i> Steph.	420
***	<i>Porella crispata</i> (Hook.) Trevis.	420
**	<i>Porella cucullistipula</i> Steph.	420
**	<i>Porella densifolia</i> (Steph.) S.Hatt.	420
**	<i>Porella densifolia</i> subsp. <i>andamana</i> S.Hatt.	420
**	<i>Porella densifolia</i> subsp. <i>appendiculata</i> (Steph.) S.Hatt.....	420
**	<i>Porella densifolia</i> var. <i>oviloba</i> (Steph.) N.Kitag.	420
**	<i>Porella densifolia</i> var. <i>paraphyllina</i> (P.C.Chen) Pócs	420
**	<i>Porella densifolia</i> var. <i>pilosa</i> S.Hatt. et K.C.Chang.....	420
**	<i>Porella densifolia</i> var. <i>robusta</i> (Steph.) S.Hatt.....	420
***	<i>Porella elegantula</i> (Mont.) E.A.Hodgs.	421
**	<i>Porella faurieri</i> (Steph.) S.Hatt.	421
**	<i>Porella fengii</i> P.C.Chen et S.Hatt.	421
**	<i>Porella geheebii</i> (Steph.) S.Hatt.	421
**	<i>Porella gracillima</i> Mitt.....	421
**	<i>Porella grandifolia</i> (Steph.) S.Hatt.	421
**	<i>Porella grandiloba</i> Lindb.	421
**	<i>Porella grollei</i> S.Hatt.	421
**	<i>Porella handelii</i> S.Hatt.	421
**	<i>Porella hattorii</i> Udar et Shaheen.....	421
**	<i>Porella boeana</i> S.Hatt.	421
*	<i>Porella imbricata</i> Lour.....	421
**	<i>Porella inaequalis</i> (Gottsche) Perss.	421
**	<i>Porella japonica</i> (Sande Lac.) Mitt.....	421
**	<i>Porella japonica</i> subsp. <i>appalachiana</i> R.M.Schust.	421
**	<i>Porella japonica</i> var. <i>densespinosa</i> S.Hatt. et M.X.Zhang.....	421
**	<i>Porella javanica</i> (Gottsche) Inoue.....	421
**	<i>Porella latifolia</i> J.S.Lou et Q.Li	421
***	<i>Porella leiboldii</i> (Lehm.) Trevis.	421
**	<i>Porella longifolia</i> (Steph.) S.Hatt.	421
**	<i>Porella madagascariensis</i> (Nees et Mont.) Trevis.	421
*	<i>Porella maxima</i> (Steph.) M.L.So	422
***	<i>Porella mexicana</i> (Hampe ex Gottsche, Lindenb. et Nees) Trevis.	422
**	<i>Porella montantii</i> (Steph.) E.W.Jones.....	422
***	<i>Porella navicularis</i> (Lehm. et Lindenb.) Pfeiff.....	422
**	<i>Porella nitens</i> (Steph.) S.Hatt.	422
**	<i>Porella oblongifolia</i> S.Hatt.	422
***	<i>Porella obtusata</i> (Taylor) Trevis.....	422
**	<i>Porella obtusata</i> var. <i>macroloba</i> (Steph.) S.Hatt. et M.X.Zhang.....	422
**	<i>Porella obtusiloba</i> S.Hatt.	422
**	<i>Porella perrottetiana</i> (Mont.) Trevis.....	422
**	<i>Porella perrottetiana</i> var. <i>angustifolia</i> Pócs.....	422
**	<i>Porella perrottetiana</i> var. <i>ciliatodentata</i> (P.C.Chen et P.C.Wu) S.Hatt.....	422
**	<i>Porella perrottetiana</i> var. <i>triciliata</i> (Steph.) Pócs.....	422
***	<i>Porella pinnata</i> L.....	422
**	<i>Porella planifolia</i> J.S.Lou	422
***	<i>Porella platyphylla</i> (L.) Pfeiff.....	422

***	<i>Porella platyphylloidea</i> (Schwein.) Lindb.....	423
**	<i>Porella plicata</i> J.S.Lou	423
**	<i>Porella plumosa</i> (Mitt.) Parihar.....	423
**	<i>Porella proluxa</i> (Gottsche) E.W.Jones	423
**	<i>Porella pulcherrima</i> Herzog et S.Hatt.	423
***	<i>Porella reflexa</i> (Lehm. et Lindenb.) Trevis.....	423
**	<i>Porella revoluta</i> (Lehm. et Lindenb.) Trevis.....	423
**	<i>Porella revoluta</i> var. <i>propinqua</i> (C.Massal.) S.Hatt.....	423
**	<i>Porella roellii</i> Steph.	423
***	<i>Porella saccata</i> M.L.So.....	423
**	<i>Porella sichuanensis</i> S.Hatt. et K.C.Chang.....	423
**	<i>Porella spinulosa</i> (Steph.) S.Hatt.....	423
***	<i>Porella squamulifera</i> (Taylor) Trevis.	423
**	<i>Porella stephaniana</i> (C.Massal.) S.Hatt.	423
**	<i>Porella subdentata</i> (Mitt.) Steph.	423
**	<i>Porella subdentata</i> var. <i>camerunensis</i> E.W.Jones	423
**	<i>Porella subobtusa</i> (Steph.) S.Hatt.....	423
**	<i>Porella subparaphyllina</i> J.S.Lou.....	423
***	<i>Porella subsquarrosa</i> (Nees et Mont.) Trevis.	424
***	<i>Porella swailsii</i> Grolle.....	424
***	<i>Porella swartziana</i> (F.Weber) Trevis.....	424
**	<i>Porella triquetra</i> (Steph.) E.W.Jones.....	424
**	<i>Porella truncata</i> J.S.Lou.....	424
**	<i>Porella ulophylla</i> (Steph.) S.Hatt.....	424
**	<i>Porella undatorevoluta</i> J.S.Lou.....	424
**	<i>Porella urceolata</i> S.Hatt.	424
**	<i>Porella urogea</i> (C.Massal.) S.Hatt.	424
**	<i>Porella vallis-gratiae</i> (Gottsche) E.W.Jones.....	424
**	<i>Porella variabilis</i> (Kashyap et R.S.Chopra) Parihar.....	424
**	<i>Porella vernicosa</i> Lindb.	424
**	<i>Porella viridissima</i> (Mitt.) Grolle.....	424
**	<i>Porella wataugensis</i> (Sull.) Underw. ex M.Howe.....	424
**	<i>Prasanthus jamalicus</i> Potemkin.....	114
***	<i>Prasanthus suecicus</i> (Gottsche) Lindb.....	114
***	<i>Preissia quadrata</i> (Scop.) Nees.....	492
**	<i>Preissia quadrata</i> subsp. <i>hyperborea</i> R.M.Schust.	492
***	<i>Prionolejeunea aemula</i> (Gottsche) A.Evans	351
***	<i>Prionolejeunea ampliretis</i> Herzog.....	351
***	<i>Prionolejeunea arguta</i> (Nees) Steph.....	351
*	<i>Prionolejeunea corbisieri</i> Pearson.....	351
***	<i>Prionolejeunea decora</i> (Taylor) Steph.	351
***	<i>Prionolejeunea denticulata</i> (F.Weber) Schiffn.....	351
***	<i>Prionolejeunea diversitexta</i> (Hampe et Gottsche) Steph.....	352
***	<i>Prionolejeunea exauriculata</i> A.Evans	352
***	<i>Prionolejeunea galliotii</i> Steph.	352
***	<i>Prionolejeunea grata</i> (Gottsche) Schiffn.	352
***	<i>Prionolejeunea grollei</i> Ilk.-Borg. et Schäf.-Verw.	352
***	<i>Prionolejeunea guadalupensis</i> (Lindenb.) Steph.	352
***	<i>Prionolejeunea limpida</i> Herzog.....	352
*	<i>Prionolejeunea maculata</i> Herzog.....	353
***	<i>Prionolejeunea magnistipula</i> Herzog.....	352
***	<i>Prionolejeunea meissneri</i> (Gottsche) Steph.	353

***	<i>Prionolejeunea mucronata</i> (Sande Lac.) Steph.	352
***	<i>Prionolejeunea muricatoserrulata</i> (Spruce) Steph.	352
***	<i>Prionolejeunea principensis</i> Vanden Berghen	352
***	<i>Prionolejeunea recurvula</i> (Spruce) Steph.	352
***	<i>Prionolejeunea scaberula</i> (Spruce) Steph.	352
***	<i>Prionolejeunea schlimiana</i> (Gottsche) Steph.	352
***	<i>Prionolejeunea trachyodes</i> (Spruce) Steph.	352
***	<i>Protocephalozia ephemeroides</i> (Spruce) K.I.Goebel	182
**	<i>Protolophozia androgyna</i> R.M.Schust. ex Váňa et L.Söderstr.	76
**	<i>Protolophozia autoica</i> (R.M.Schust.) Váňa et L.Söderstr.	76
**	<i>Protolophozia crispata</i> (R.M.Schust.) Váňa et L.Söderstr.	76
***	<i>Protolophozia druceae</i> (Grolle et E.A.Hodgs.) Váňa et L.Söderstr.	76
***	<i>Protolophozia elongata</i> (Steph.) Schljakov	76
***	<i>Protolophozia herzogiana</i> (E.A.Hodgs. et Grolle) Váňa et L.Söderstr.	76
***	<i>Protolophozia lancistipa</i> (Grolle) Váňa et L.Söderstr.	76
***	<i>Protolophozia leucorbiza</i> (Mitt.) Váňa et L.Söderstr.	76
***	<i>Protolophozia longiflora</i> (Herzog) L.Söderstr. et Váňa	76
**	<i>Protolophozia monoica</i> (E.A.Hodgs.) Váňa et L.Söderstr.	76
***	<i>Protolophozia multicuspidata</i> (Hook.f. et Taylor) Váňa et L.Söderstr.	76
**	<i>Protolophozia nivicola</i> (R.M.Schust.) Váňa et L.Söderstr.	76
***	<i>Protolophozia perssoniana</i> (H.A.Mill.) Váňa et L.Söderstr.	76
**	<i>Protolophozia subalpina</i> (R.M.Schust.) Váňa et L.Söderstr.	76
***	<i>Protolophozia tasmanica</i> (R.M.Schust.) Váňa et L.Söderstr.	76
***	<i>Protolophozia verruculosa</i> (R.M.Schust.) Váňa et L.Söderstr.	76
***	<i>Protosyzygiella pseudocconnexa</i> (Herzog) R.M.Schust.	46
**	<i>Pseudocephalozia cucullata</i> J.J.Engel et R.M.Schust.	168
**	<i>Pseudocephalozia lepidozoioides</i> R.M.Schust.	169
**	<i>Pseudocephalozia leptodictyon</i> R.M.Schust.	169
***	<i>Pseudocephalozia lobulata</i> (Herzog) R.M.Schust.	168
***	<i>Pseudocephalozia paludicola</i> R.M.Schust.	169
***	<i>Pseudocephalozia quadriloba</i> (Steph.) R.M.Schust.	168
***	<i>Pseudocephalozia epiphytica</i> R.M.Schust.	81
**	<i>Pseudoisotachis pocsii</i> Váňa	99
**	<i>Pseudolepicolea andoi</i> (R.M.Schust.) Inoue	254
**	<i>Pseudolepicolea fryei</i> (Perss.) Grolle et Ando	254
***	<i>Pseudolepicolea grolleana</i> (R.M.Schust.) Grolle	254
***	<i>Pseudolepicolea kuehnemannii</i> (R.M.Schust.) Hässel	254
***	<i>Pseudolepicolea quadrilaciniata</i> (Sull.) Fulford et J.Taylor	254
***	<i>Pseudolepicolea temnomoides</i> (R.M.Schust.) Váňa et J.J.Engel	255
**	<i>Pseudolepicolea trollii</i> (Herzog) Grolle et Ando	255
*	<i>Pseudolepicolea trollii</i> var. <i>darjeelingensis</i> S.Hatt. et Mizut.	255
**	<i>Pseudolophocolea denticulata</i> R.M.Schust. et J.J.Engel	253
***	<i>Pseudomarsupidium aureocinctum</i> (R.M.Schust.) J.J.Engel	45
***	<i>Pseudomarsupidium borneensis</i> (Grolle) Váňa, L.Söderstr., A.Hagborg et von Konrat	45
***	<i>Pseudomarsupidium decipiens</i> (Hook.) Grolle	45
***	<i>Pseudomarsupidium piliferum</i> (Steph.) Herzog ex Grolle	45
***	<i>Pseudotritomaria heterophylla</i> (R.M.Schust.) Konstant. et Vilnet	85
***	<i>Psiloclada clandestina</i> Mitt.	185
**	<i>Psiloclada clandestina</i> subsp. <i>melanesica</i> R.M.Schust.	185
**	<i>Psiloclada clandestina</i> subsp. <i>spinosa</i> (S.W.Arnell) R.M.Schust.	185
***	<i>Pteropsiella frondiformis</i> Spruce	185
**	<i>Pteropsiella metzgeriiformis</i> R.M.Schust.	185

***	<i>Ptilidium californicum</i> (Austin) Pearson	434
***	<i>Ptilidium ciliare</i> (L.) Hampe	435
***	<i>Ptilidium pulcherrimum</i> (Weber) Vain.	435
**	<i>Ptychanthus africanus</i> Steph.	411
*	<i>Ptychanthus stephensonianus</i> (Mitt.) Steph.	411
***	<i>Ptychanthus striatus</i> (Lehm. et Lindenb.) Nees	411
**	<i>Ptychanthus striatus</i> var. <i>intermedius</i> (Gottsche) Verd.	411
*	<i>Pycnolejeunea anotomensis</i> Tixier	396
**	<i>Pycnolejeunea borneensis</i> Steph.	396
*	<i>Pycnolejeunea cavistipula</i> (Steph.) Mizut.	397
*	<i>Pycnolejeunea connivens</i> Schiffn. ex P.Syd.	397
***	<i>Pycnolejeunea contigua</i> (Nees) Grolle	397
*	<i>Pycnolejeunea convexifolia</i> (Mitt.) Steph.	397
***	<i>Pycnolejeunea decurviloba</i> Steph.	397
***	<i>Pycnolejeunea densistipula</i> (Lehm. et Lindenb.) Steph.	397
**	<i>Pycnolejeunea gradsteinii</i> Ilk.-Borg.	397
**	<i>Pycnolejeunea grandiocellata</i> Steph.	397
*	<i>Pycnolejeunea grossiloba</i> Steph.	397
***	<i>Pycnolejeunea macroloba</i> (Nees et Mont.) Schiffn.	397
***	<i>Pycnolejeunea monophthalma</i> (R.M.Schust.) Xiao L.He	397
**	<i>Pycnolejeunea novae-caledoniae</i> (Steph.) Horik.	397
*	<i>Pycnolejeunea palmicola</i> Steph.	397
***	<i>Pycnolejeunea papillosa</i> Xiao L.He	397
**	<i>Pycnolejeunea porrectilobula</i> C.J.Bastos et O.Yano	397
**	<i>Pycnolejeunea retusa</i> R.M.Schust.	397
*	<i>Pycnolejeunea schlimiana</i> Steph.	397
***	<i>Pycnolejeunea schwaneckeii</i> (Steph.) Schiffn. ex P.Syd.	398
**	<i>Pycnolejeunea sphaeroides</i> (Sande Lac.) J.B.Jack et Steph.	398
**	<i>Radula acuminata</i> Steph.	426
**	<i>Radula acuta</i> Mitt.	427
***	<i>Radula acutangula</i> Steph.	430
***	<i>Radula acutiloba</i> Steph.	428
**	<i>Radula aguirrei</i> R.M.Schust.	426
**	<i>Radula allisonii</i> Castle	427
***	<i>Radula amentulosa</i> Mitt.	425
**	<i>Radula amoena</i> Herzog	427
**	<i>Radula anceps</i> Sande Lac.	427
***	<i>Radula aneurismalis</i> (Hook.f. et Taylor) Gottsche, Lindenb. et Nees.	425
**	<i>Radula angulata</i> Steph.	430
**	<i>Radula anisotoma</i> M.A.M.Renner	426
**	<i>Radula ankefinensis</i> Gottsche	429
**	<i>Radula antilleana</i> Castle	429
**	<i>Radula appressa</i> Mitt.	428
***	<i>Radula aquilegia</i> (Hook.f. et Taylor) Gottsche, Lindenb. et Nees.	428
***	<i>Radula assamica</i> Steph.	426
**	<i>Radula auriculata</i> Steph.	426
***	<i>Radula australiana</i> K.Yamada	426
**	<i>Radula australis</i> Austin	428
*	<i>Radula bipinnata</i> Mitt.	426
**	<i>Radula bogotensis</i> Steph.	430
***	<i>Radula bolanderi</i> Gottsche	430
**	<i>Radula boninensis</i> Furuki et K.Yamada	430

**	<i>Radula borneensis</i> Steph.....	428
***	<i>Radula boryana</i> (F.Weber) Nees ex Mont.....	426
**	<i>Radula brasiliica</i> K.Yamada.....	430
***	<i>Radula brunnea</i> Steph.....	426
***	<i>Radula buccinifera</i> (Hook.f. et Taylor) Gottsche, Lindenb. et Nees.....	426
**	<i>Radula caduca</i> K.Yamada.....	428
**	<i>Radula caespitosa</i> Steph.....	430
***	<i>Radula campanigera</i> Mont.....	426
***	<i>Radula campanigera</i> subsp. <i>obiensis</i> (S.Hatt.) K.Yamada.....	426
**	<i>Radula campanulata</i> Lindenb. et Gottsche.....	430
***	<i>Radula carringtonii</i> J.B.Jack.....	428
**	<i>Radula castlei</i> Grolle.....	430
***	<i>Radula cavifolia</i> Hampe ex Gottsche, Lindenb. et Nees.....	430
**	<i>Radula ceylanica</i> K.Yamada.....	425
**	<i>Radula chinensis</i> Steph.....	426
**	<i>Radula cochabambaensis</i> K.Yamada.....	430
**	<i>Radula comorensis</i> Steph.....	429
***	<i>Radula complanata</i> (L.) Dumort.....	428
**	<i>Radula conferta</i> Lindenb. et Gottsche.....	430
**	<i>Radula constricta</i> Steph.....	428
***	<i>Radula cordata</i> Mitt.....	430
**	<i>Radula costaricensis</i> Gottsche.....	431
*	<i>Radula crenulata</i> Schiffn.....	427
**	<i>Radula cubensis</i> K.Yamada.....	429
***	<i>Radula curvilobula</i> M.L.So.....	431
***	<i>Radula cuspidata</i> Steph.....	427
***	<i>Radula decora</i> Gottsche.....	427
*	<i>Radula decurrens</i> Mitt.....	431
***	<i>Radula demissa</i> M.A.M.Renner.....	426
**	<i>Radula densifolia</i> Castle.....	431
**	<i>Radula diaphana</i> K.I.Goebel.....	431
**	<i>Radula diversifolia</i> Steph.....	429
**	<i>Radula dolabrata</i> K.Yamada.....	431
***	<i>Radula eggertii</i> K.Yamada.....	429
**	<i>Radula elliotii</i> Castle.....	431
**	<i>Radula emarginata</i> K.Yamada et Piippo.....	428
**	<i>Radula episcia</i> Spruce.....	429
**	<i>Radula evansii</i> Castle.....	426
**	<i>Radula evelynae</i> K.Yamada.....	428
**	<i>Radula falcata</i> Steph.....	431
**	<i>Radula fauriana</i> Steph.....	431
**	<i>Radula fendleri</i> Gottsche.....	428
**	<i>Radula fernandezana</i> Steph.....	431
***	<i>Radula fissifolia</i> Steph.....	425
**	<i>Radula flaccida</i> Lindenb. et Gottsche.....	426
**	<i>Radula flaccida</i> var. <i>brachycalyx</i> Spruce.....	426
**	<i>Radula flavifolia</i> (Hook.f. et Taylor) Gottsche, Lindenb. et Nees.....	431
**	<i>Radula floridana</i> Castle.....	429
***	<i>Radula forficata</i> M.A.M.Renner.....	426
***	<i>Radula formosa</i> (C.F.W.Meissn. ex Spreng.) Nees.....	425
**	<i>Radula fujitae</i> Furuki.....	431
**	<i>Radula fulvifolia</i> (Hook.f. et Taylor) Gottsche, Lindenb. et Nees.....	429

**	<i>Radula galapagona</i> Steph.	431
**	<i>Radula gedena</i> Gottsche	431
***	<i>Radula gottscheana</i> Taylor	426
**	<i>Radula gracilis</i> Mitt.	431
**	<i>Radula gradsteinii</i> K.Yamada	431
**	<i>Radula grandifolia</i> Steph.	431
***	<i>Radula grandis</i> Steph.	428
**	<i>Radula grevilleana</i> Taylor	426
**	<i>Radula grolli</i> K.Yamada et Piippo	431
**	<i>Radula guyanensis</i> K.Yamada	431
***	<i>Radula hastata</i> Steph.	429
**	<i>Radula hattorii</i> K.Yamada	431
***	<i>Radula hawaiiica</i> M.L.So	431
*	<i>Radula hedingeri</i> K.I.Goebel	431
***	<i>Radula helix</i> (Hook.f. et Taylor) Gottsche, Lindenb. et Nees	425
***	<i>Radula hicksiae</i> K.Yamada	425
*	<i>Radula holstiana</i> Steph.	429
***	<i>Radulaholtii</i> Spruce	430
**	<i>Radula husnotii</i> Castle	430
***	<i>Radula imposita</i> M.A.M.Renner	427
**	<i>Radula inflexa</i> Gottsche	430
***	<i>Radula inouei</i> K.Yamada	431
***	<i>Radula involvens</i> Spruce	431
***	<i>Radula iwatsukiana</i> K.Yamada	431
***	<i>Radula iwatsukii</i> K.Yamada	425
***	<i>Radula jamaicensis</i> Pearson	431
**	<i>Radula jamesonii</i> Taylor	431
**	<i>Radula japonica</i> Gottsche	428
**	<i>Radula javanica</i> Gottsche	428
***	<i>Radula jonesii</i> Bouman, Dirkse et K.Yamada	428
**	<i>Radula jovetiana</i> K.Yamada	427
**	<i>Radula kegelii</i> Gottsche ex Steph.	430
**	<i>Radula kilgourii</i> M.A.M.Renner	427
**	<i>Radula kinabaluensis</i> K.Yamada	431
***	<i>Radula kitagawae</i> K.Yamada	431
**	<i>Radula kojana</i> Steph.	428
**	<i>Radula koponenii</i> K.Yamada et Piippo	431
**	<i>Radula kurzii</i> Steph.	431
***	<i>Radula lacerata</i> Steph.	428
**	<i>Radula laxiramea</i> Steph.	431
**	<i>Radula leiboldii</i> Steph.	432
**	<i>Radula lewisii</i> K.Yamada	432
***	<i>Radula ligula</i> Steph.	432
***	<i>Radula lindenbergiana</i> Gottsche ex C.Hartm.	428
***	<i>Radula lingulata</i> Gottsche	432
**	<i>Radula longiloba</i> K.Yamada	432
*	<i>Radula longispica</i> Steph.	432
**	<i>Radula loriana</i> Castle	427
**	<i>Radula macroloba</i> Steph.	430
**	<i>Radula madagascariensis</i> Gottsche	428
***	<i>Radula mammosa</i> Spruce	427
***	<i>Radula marginata</i> Gottsche, Lindenb. et Nees	432

**	<i>Radula marojezica</i> E.W.Jones.....	428
***	<i>Radula mauiensis</i> M.L.So	432
**	<i>Radula mazarunensis</i> K.Yamada	430
**	<i>Radula mexicana</i> Lindenb. et Gottsche	430
**	<i>Radula microloba</i> Gottsche.....	430
**	<i>Radula microlobula</i> Castle	432
**	<i>Radula minutilobula</i> K.Yamada et Piippo.....	432
***	<i>Radula mittenii</i> Steph.....	427
**	<i>Radula mizutanii</i> K.Yamada	432
**	<i>Radula morobeana</i> K.Yamada et Piippo.....	425
**	<i>Radula multiamentula</i> E.A.Hodgs.	425
*	<i>Radula multiflora</i> Gottsche ex Schiffn.	429
***	<i>Radula myriopoda</i> M.A.M.Renner.....	427
**	<i>Radula neotropica</i> Castle.....	430
***	<i>Radula nigra</i> Pearson	432
**	<i>Radula nilgiriensis</i> Udar et D.Kumar.....	432
**	<i>Radula norrisii</i> K.Yamada et Piippo	432
***	<i>Radula notabilis</i> M.A.M.Renner.....	427
***	<i>Radula novae-hollandiae</i> Hampe	428
**	<i>Radula novivrieseana</i> K.Yamada	432
***	<i>Radula novocaledonica</i> Hürl. et K.Yamada.....	432
***	<i>Radula novocaledoniensis</i> K.Yamada.....	432
**	<i>Radula novoguineensis</i> K.Yamada et Piippo.....	429
***	<i>Radula nudicaulis</i> Steph.	430
*	<i>Radula nudicaulis</i> var. <i>delicatula</i> P.Allorge et V.Allorge.....	430
**	<i>Radula nymannii</i> Steph.	427
**	<i>Radula obconica</i> Sull.....	429
**	<i>Radula obovata</i> Castle	432
**	<i>Radula obscura</i> Mitt.	432
**	<i>Radula obtusiloba</i> Steph.	429
**	<i>Radula obtusiloba</i> subsp. <i>polyclada</i> (A.Evans) S.Hatt.....	429
*	<i>Radula oceania</i> Castle	429
***	<i>Radula ocellata</i> K.Yamada	428
**	<i>Radula okamurana</i> Steph.	432
**	<i>Radula onraedtii</i> K.Yamada.....	432
**	<i>Radula opaciuscula</i> (Spruce) Castle.....	432
**	<i>Radula oreopsis</i> M.A.M.Renner	429
***	<i>Radula ornata</i> E.A.Br. et Pócs	425
**	<i>Radula ovalilobula</i> K.Yamada.....	432
**	<i>Radula oyamensis</i> Steph.	432
*	<i>Radula paganii</i> Castle.....	432
***	<i>Radula pallens</i> (Sw.) Nees ex Mont.	432
***	<i>Radula pandei</i> Udar et Dh.Kumar.....	432
**	<i>Radula patens</i> K.Yamada	433
***	<i>Radula perrottetii</i> Gottsche.....	426
**	<i>Radula peruviana</i> K.Yamada	433
**	<i>Radula philippinensis</i> K.Yamada	433
***	<i>Radula physoloba</i> Mont.	425
*	<i>Radula pinnulata</i> Mitt.....	433
***	<i>Radula plicata</i> Mitt.	428
**	<i>Radula poscii</i> K.Yamada	430
**	<i>Radula portoricensis</i> Steph.	429

***	<i>Radula prolifera</i> Arnell	429
**	<i>Radula protensa</i> Lindenb.	427
**	<i>Radula protensa</i> var. <i>erectilobula</i> Schiffn.	427
**	<i>Radula pseudoflaccida</i> E.W.Jones	427
***	<i>Radula pseudoscripta</i> M.A.M.Renner	425
**	<i>Radula pseudostachya</i> Spruce	433
**	<i>Radula psychosis</i> M.A.M.Renner	427
**	<i>Radula pugioniformis</i> M.A.M.Renner	428
***	<i>Radula pulchella</i> Mitt.	428
**	<i>Radula punctata</i> Steph.	433
**	<i>Radula pusilla</i> Spruce	433
***	<i>Radula quadrata</i> Gottsche	429
**	<i>Radula queenslandica</i> K.Yamada	425
***	<i>Radula ratkowskiana</i> K.Yamada	427
**	<i>Radula recubans</i> Taylor	430
***	<i>Radula reflexa</i> Nees et Mont.	429
***	<i>Radula retroflexa</i> Taylor	428
***	<i>Radula rhombiloba</i> Steph.	433
***	<i>Radula robinsonii</i> Steph.	427
*	<i>Radula rupicola</i> K.Yamada	433
**	<i>Radula saccatiloba</i> Steph.	430
**	<i>Radula santacruziana</i> K.Yamada et Gradst.	433
***	<i>Radula scariosa</i> Mitt.	425
**	<i>Radula schaefer-verwimpii</i> K.Yamada	430
**	<i>Radula schofieldiana</i> K.Yamada	430
**	<i>Radula sharpii</i> K.Yamada	429
**	<i>Radula silvestris</i> Gottsche	429
**	<i>Radula sinskeana</i> K.Yamada	433
**	<i>Radula sinuata</i> Gottsche ex Steph.	433
*	<i>Radula socorana</i> Gerola	433
**	<i>Radula sonsonensis</i> Steph.	433
***	<i>Radula splendida</i> M.A.M.Renner et Devos	425
*	<i>Radula squarrosa</i> K.Yamada	425
**	<i>Radula stellatogemmipara</i> C.Gao et Y.H.Wu	433
**	<i>Radula stenocalyx</i> Mont.	427
**	<i>Radula stipatiflora</i> Steph.	430
***	<i>Radula strangulata</i> Hook.f. et Taylor	427
**	<i>Radula striata</i> Mitt.	430
**	<i>Radula subinflata</i> Lindenb. et Gottsche	430
**	<i>Radula subsimplex</i> Steph.	433
**	<i>Radula subsquarrosa</i> S.W.Arnell	433
**	<i>Radula sullivantii</i> Austin	430
**	<i>Radula sumatrana</i> Steph.	429
**	<i>Radula tabularis</i> Steph.	433
***	<i>Radula tasmanica</i> Steph.	428
**	<i>Radula taylorii</i> Steph.	433
**	<i>Radula tectiloba</i> Steph.	433
**	<i>Radula tenax</i> Lindb.	426
**	<i>Radula tenera</i> Mitt.	430
**	<i>Radula tenuis</i> K.Yamada	433
***	<i>Radula thiersiae</i> K.Yamada	425
*	<i>Radula tjibodensis</i> K.I.Goebel	427

**	<i>Radula tokiensis</i> Steph.	429
**	<i>Radula underwoodii</i> Castle	429
***	<i>Radula wifera</i> (Hook.f. et Taylor) Gottsche, Lindenb. et Nees.	425
*	<i>Radula vagans</i> Steph.	425
***	<i>Radula van-zantenii</i> K.Yamada	429
**	<i>Radula varilobula</i> Castle.	429
**	<i>Radula venezuelensis</i> K.Yamada	433
***	<i>Radula ventricosa</i> Steph.	427
**	<i>Radula verrucosa</i> K.Yamada.	425
***	<i>Radula vieillardii</i> Gottsche	433
**	<i>Radula visianica</i> C.Massal.	433
***	<i>Radula voluta</i> Taylor.	430
**	<i>Radula vrieseana</i> Sande Lac.	433
***	<i>Radula weymouthiana</i> Steph.	428
***	<i>Radula wichurae</i> Steph.	429
**	<i>Radula wrightii</i> Castle.	433
**	<i>Radula xalapensis</i> Nees et Mont.	434
***	<i>Radula yanoella</i> R.M.Schust.	427
***	<i>Reboulia hemisphaerica</i> (L.) Raddi	483
**	<i>Reboulia hemisphaerica</i> subsp. <i>acrogyna</i> (R.M.Schust.) R.M.Schust.	483
**	<i>Reboulia hemisphaerica</i> subsp. <i>australis</i> R.M.Schust.	483
**	<i>Reboulia hemisphaerica</i> subsp. <i>dioica</i> R.M.Schust.	483
**	<i>Reboulia hemisphaerica</i> var. <i>fissisquama</i> Herzog.	483
**	<i>Reboulia hemisphaerica</i> subsp. <i>orientalis</i> R.M.Schust.	484
**	<i>Reboulia hemisphaerica</i> var. <i>turkestanica</i> C.E.O.Jensen ex Herzog.	484
*	<i>Rectolejeunea colombiana</i> R.M.Schust.	393
***	<i>Rectolejeunea emarginuliflora</i> (Schiffn.) A.Evans	393
***	<i>Rectolejeunea flagelliformis</i> A.Evans	393
*	<i>Rectolejeunea flagelliformis</i> subsp. <i>hamata</i> R.M.Schust.	393
*	<i>Rectolejeunea lindenbergii</i> Steph.	393
*	<i>Rectolejeunea lindigiana</i> Steph.	394
*	<i>Rectolejeunea pachyderma</i> R.M.Schust.	394
***	<i>Rectolejeunea queenslandica</i> (B.M.Thiers) Xiao L.He	393
**	<i>Rectolejeunea truncatilobula</i> C.J.Bastos	393
***	<i>Rectolejeunea versifolia</i> (Schiffn.) L.Söderstr. et A.Hagborg.	393
**	<i>Riccardia aberrans</i> (Steph.) Gradst.	445
**	<i>Riccardia aequicellularis</i> (Steph.) Hewson.	439
***	<i>Riccardia aequitexta</i> (Steph.) E.A.Br.	441
***	<i>Riccardia aeruginosa</i> Furuki	439
**	<i>Riccardia agumana</i> Hewson	445
***	<i>Riccardia alba</i> (Colenso) E.A.Br.	441
*	<i>Riccardia albomarginata</i> (Steph.) Schiffn.	439
**	<i>Riccardia alcornis</i> (Hook.f. et Taylor) Trevis.	440
**	<i>Riccardia algooides</i> (Taylor) Meenks.	445
***	<i>Riccardia amazonica</i> (Spruce) Schiffn. ex Gradst. et Hekking.	445
**	<i>Riccardia amnicola</i> Hässel	441
***	<i>Riccardia andina</i> (Spruce) Herzog.	441
**	<i>Riccardia angustata</i> Horik.	445
**	<i>Riccardia angustealata</i> (Steph.) Hewson	445
**	<i>Riccardia angustissima</i> (Steph.) H.A.Mill.	445
***	<i>Riccardia arcuata</i> Furuki	439
**	<i>Riccardia argentolimbata</i> Hewson et Grolle	438

**	<i>Riccardia aspera</i> (Steph.) Grolle.....	445
**	<i>Riccardia asperulata</i> R.M.Schust.....	439
***	<i>Riccardia australis</i> (Lehm.) Hewson	439
**	<i>Riccardia autoica</i> (Steph.) A.Evans	443
*	<i>Riccardia baldwinii</i> (Steph.) H.A.Mill.....	446
**	<i>Riccardia barbiflora</i> (Steph.) Piippo.....	446
*	<i>Riccardia baumannii</i> Hürl.....	445
**	<i>Riccardia bipinnatifida</i> (Colenso) Hewson	441
**	<i>Riccardia bogotensis</i> (Gottsche) Pagán.....	446
**	<i>Riccardia boliviensis</i> (Steph.) Meenks	446
**	<i>Riccardia bongeriana</i> Hewson.....	446
**	<i>Riccardia breviala</i> E.A.Br.	443
**	<i>Riccardia breviramosa</i> (Steph.) A.Evans	443
**	<i>Riccardia brunnea</i> (Steph.) S.Hatt	446
**	<i>Riccardia calcarea</i> (Steph.) Meenks.....	446
**	<i>Riccardia calva</i> (Schiffn.) A.Evans	441
**	<i>Riccardia canaliculata</i> (Nees) Kuntze.....	439
**	<i>Riccardia capillacea</i> (Steph.) Meenks et C.De Jong.....	446
**	<i>Riccardia capillacea</i> var. <i>dentata</i> Meenks.....	446
**	<i>Riccardia cardotii</i> (Steph.) Pandé et S.C.Srivast.....	446
**	<i>Riccardia cataractarum</i> (Spruce) Schiffn.	446
***	<i>Riccardia cervicornis</i> (Spruce) Herzog ex Gradst. et Hekking.....	446
***	<i>Riccardia chamedryfolia</i> (With.) Grolle.....	439
**	<i>Riccardia changbaishanensis</i> C.Gao	439
**	<i>Riccardia chinensis</i> C.Gao.....	446
**	<i>Riccardia ciliolata</i> (Spruce) Horik.....	446
***	<i>Riccardia cochleata</i> (Hook.f. et Taylor) Kuntze.....	439
***	<i>Riccardia colensoi</i> (Steph.) W.Martin.....	441
**	<i>Riccardia columbica</i> (Steph.) Hässel ex Gradst. et Hekking	447
**	<i>Riccardia comata</i> (Steph.) H.A.Mill.....	447
**	<i>Riccardia compacta</i> (Steph.) S.W.Arnell.....	447
**	<i>Riccardia comptonii</i> (Pearson) H.A.Mill.	447
**	<i>Riccardia conimitra</i> (Steph.) A.Evans.....	440
**	<i>Riccardia corralensis</i> (Steph.) A.Evans	440
**	<i>Riccardia costata</i> (Steph.) Hürl.	447
***	<i>Riccardia crassa</i> (Schwägr.) C.Massal.....	441
***	<i>Riccardia crassicaulis</i> (Steph.) Meenks et C.De Jong.....	447
**	<i>Riccardia crassicrispa</i> (Steph.) A.Evans.....	441
**	<i>Riccardia crassiretis</i> Schiffn.	447
**	<i>Riccardia crenulata</i> Schiffn.	447
**	<i>Riccardia crenuliformis</i> R.M.Schust.	447
*	<i>Riccardia decolyana</i> Schiffn.....	447
**	<i>Riccardia deguchii</i> Furuki et K.T.Yong.....	445
**	<i>Riccardia densiramea</i> (Steph.) S.Hatt.....	447
**	<i>Riccardia devexa</i> Schiffn.	447
**	<i>Riccardia diabolina</i> (Spruce) Pagán	447
**	<i>Riccardia diderma</i> Hässel.....	441
***	<i>Riccardia digitiloba</i> (Spruce) Pagán	447
**	<i>Riccardia dilatata</i> (Spruce) Schäf.-Verw. et Pócs	447
*	<i>Riccardia diminuta</i> Schiffn.	447
*	<i>Riccardia diminuta</i> var. <i>thermarum</i> Schiffn.....	447
**	<i>Riccardia distans</i> (Spruce) Pagán.....	448

**	<i>Riccardia diversiflora</i> A.Evans	441
**	<i>Riccardia diversiflora</i> subsp. <i>paucigyna</i> R.M.Schust.	441
**	<i>Riccardia duriuscula</i> Hässel	441
**	<i>Riccardia elata</i> (Steph.) Schiffn.	448
*	<i>Riccardia elata</i> var. <i>flaccida</i> Schiffn.	448
*	<i>Riccardia elata</i> var. <i>intercedens</i> Schiffn.	448
**	<i>Riccardia elegans</i> (Steph.) Hürl.	448
**	<i>Riccardia elisabethae</i> Thouvenot et Reeb	448
***	<i>Riccardia emarginata</i> (Steph.) K.G.Hell	448
***	<i>Riccardia eriocaula</i> (Hook.) C.Massal	439
**	<i>Riccardia erosa</i> (Steph.) E.W.Jones	448
**	<i>Riccardia falsifloribunda</i> Hässel	442
**	<i>Riccardia fastigiata</i> (Lehm.) Trevis.	448
**	<i>Riccardia fendleri</i> (Steph.) Pagán	448
**	<i>Riccardia filicina</i> (Colenso) E.A.Hodgs.	444
**	<i>Riccardia flaccida</i> (Steph.) S.Hatt.	448
**	<i>Riccardia flaccidissima</i> Schiffn.	448
**	<i>Riccardia flagellaris</i> (A.Gepp) H.A.Mill.	448
**	<i>Riccardia flagellifrons</i> C.Gao	448
***	<i>Riccardia flavovirens</i> Furuki	439
**	<i>Riccardia fleischeri</i> (Steph.) H.A.Mill.	448
**	<i>Riccardia floribunda</i> (Steph.) A.Evans	442
**	<i>Riccardia fluviigena</i> Hässel	442
**	<i>Riccardia foliacea</i> Meenks et C.De Jong	448
**	<i>Riccardia formosensis</i> (Steph.) Horik.	448
***	<i>Riccardia fruticosa</i> (Steph.) Furuki	439
***	<i>Riccardia fucoides</i> (Sw.) C.Massal	448
**	<i>Riccardia fuegiensis</i> C.Massal	439
***	<i>Riccardia furtiva</i> E.A.Br. et Braggins	440
**	<i>Riccardia fuscobrunnea</i> (Steph.) A.Evans	441
**	<i>Riccardia geniana</i> Hewson	449
**	<i>Riccardia georgiensis</i> (Steph.) Hässel	442
**	<i>Riccardia georgiensis</i> subsp. <i>sympodea</i> R.M.Schust.	442
***	<i>Riccardia glauca</i> Furuki	439
***	<i>Riccardia glaziovii</i> (Spreng) Meenks	449
**	<i>Riccardia gogolensis</i> (Steph.) Hewson	449
**	<i>Riccardia gracilis</i> (Steph.) R.M.Schust.	449
***	<i>Riccardia graeffei</i> (Steph.) Hewson	442
**	<i>Riccardia grandiflora</i> (Steph.) H.A.Mill.	449
**	<i>Riccardia granulata</i> (Steph.) A.Evans	443
***	<i>Riccardia grollei</i> Furuki	449
**	<i>Riccardia grossidens</i> (Steph.) Pagán	449
***	<i>Riccardia grossitexta</i> (Steph.) Furuki	445
**	<i>Riccardia gunniana</i> (Steph.) H.A.Mill.	449
**	<i>Riccardia hamatiflora</i> (Steph.) H.A.Mill.	449
***	<i>Riccardia hans-meyeri</i> (Steph.) Meenks et C.De Jong	449
**	<i>Riccardia hans-meyeri</i> var. <i>dentata</i> Meenks	449
***	<i>Riccardia hattorii</i> Furuki	439
**	<i>Riccardia hawaica</i> (Steph.) H.A.Mill.	449
**	<i>Riccardia hebridensis</i> (Steph.) H.A.Mill.	449
**	<i>Riccardia herzogiana</i> (Steph.) Meenks et C.De Jong	449
**	<i>Riccardia heteroclada</i> Schiffn.	449

* <i>Riccardia hirtiflora</i> (Steph.) Schiffn.	449
** <i>Riccardia humilis</i> (Gottsche) O.Yano	450
** <i>Riccardia hyalina</i> (Steph.) H.A.Mill.	450
** <i>Riccardia hyalitricha</i> Hässel	445
** <i>Riccardia hydra</i> Hürl.	450
** <i>Riccardia hymenophylloides</i> Schiffn.	450
* <i>Riccardia hymenophylloides</i> var. <i>flaccida</i> Schiffn.....	450
*** <i>Riccardia hymenophytoides</i> (Spruce) Meenks	450
** <i>Riccardia hypipamensis</i> Hewson.....	450
** <i>Riccardia ibana</i> Hewson.....	450
** <i>Riccardia inconspicua</i> (Steph.) Reeb et Bardat.....	445
*** <i>Riccardia incurvata</i> Lindb.	450
** <i>Riccardia innovans</i> (Steph.) Pagán	450
** <i>Riccardia insularis</i> Schiffn.....	450
** <i>Riccardia intercellula</i> E.A.Br.	443
** <i>Riccardia intricata</i> (Steph.) H.A.Mill.	450
** <i>Riccardia jackii</i> Schiffn.	450
* <i>Riccardia jackii</i> var. <i>densa</i> Schiffn.	450
** <i>Riccardia judithae</i> Meenks et C.De Jong	450
*** <i>Riccardia jugata</i> R.M.Schust.	450
* <i>Riccardia karstenii</i> (Steph.) Schiffn.	450
** <i>Riccardia kodamae</i> Mizut. et S.Hatt.	439
** <i>Riccardia laticostata</i> (Spruce) Schiffn.	450
** <i>Riccardia latifrondoides</i> Schiffn.	450
*** <i>Riccardia latifrons</i> (Lindb.) Lindb.....	440
** <i>Riccardia latifrons</i> subsp. <i>arctica</i> R.M.Schust. et Damsh.	440
** <i>Riccardia latifrons</i> var. <i>miyakeana</i> (Schiffn.) Furuki	440
** <i>Riccardia lepidomitra</i> (Spruce) Gradst.	450
** <i>Riccardia leptophylla</i> (Spruce) Herzog.....	451
** <i>Riccardia leptostachya</i> A.Evans	444
** <i>Riccardia leptothallus</i> R.M.Schust.	451
** <i>Riccardia levieri</i> Schiffn.	451
** <i>Riccardia lichenoides</i> (Steph.) H.A.Mill.	451
** <i>Riccardia ligulata</i> (Steph.) Pócs et Schäf.-Verw.	451
** <i>Riccardia lilliana</i> (Steph.) H.A.Mill.	451
** <i>Riccardia limbata</i> (Steph.) E.W.Jones	451
** <i>Riccardia lobulata</i> (Colenso) E.A.Hodgs.....	444
** <i>Riccardia loefgrenii</i> Schiffn.	451
** <i>Riccardia longiflora</i> (Steph.) Hewson.....	451
** <i>Riccardia longioleata</i> Hässel	441
** <i>Riccardia longispica</i> (Steph.) Pearson	451
** <i>Riccardia loriana</i> (Steph.) H.A.Mill.....	451
** <i>Riccardia macdonaldiana</i> Hewson	451
** <i>Riccardia macrantha</i> (Pearson) H.A.Mill.	451
*** <i>Riccardia magnicellularis</i> Furuki	451
*** <i>Riccardia marginata</i> (Colenso) Pearson	442
*** <i>Riccardia marginata</i> var. <i>pacifica</i> Furuki	442
** <i>Riccardia marionensis</i> R.M.Schust.	438
** <i>Riccardia mejlandii</i> S.W.Arnell	444
*** <i>Riccardia metzgeriiformis</i> (Steph.) R.M.Schust.	451
** <i>Riccardia microscopica</i> (Nees) Kuntze	451
** <i>Riccardia minuta</i> (Steph.) W.Martin.....	451

***	<i>Riccardia multicorpora</i> E.A.Br.	452
***	<i>Riccardia multifida</i> (L.) Gray	444
***	<i>Riccardia multifida</i> subsp. <i>decrescens</i> (Steph.) Furuki	444
**	<i>Riccardia multifida</i> subsp. <i>synoica</i> R.M.Schust.	444
*	<i>Riccardia multifidoides</i> Schiffn.	452
**	<i>Riccardia multioleata</i> Hässel	444
**	<i>Riccardia multispica</i> (Steph.) S.Hatt.	452
**	<i>Riccardia mycophora</i> A.Evans	442
**	<i>Riccardia nadeaudii</i> (Steph.) Hürl.	452
**	<i>Riccardia nagasakiensis</i> (Steph.) S.Hatt.	440
**	<i>Riccardia negerii</i> (Steph.) A.Evans	442
**	<i>Riccardia newellana</i> (Steph.) H.A.Mill.	452
**	<i>Riccardia nigra</i> (Steph.) H.A.Mill.	452
**	<i>Riccardia nitida</i> (Colenso) E.A.Hodgs.	442
**	<i>Riccardia nobilis</i> (Steph.) Schiffn.	452
**	<i>Riccardia novo-amstelodamensis</i> Schiffn.	452
**	<i>Riccardia nudiflora</i> (Steph.) Grolle	452
**	<i>Riccardia obtusa</i> S.W.Arnell	452
**	<i>Riccardia obtusifrons</i> (Steph.) H.A.Mill.	452
**	<i>Riccardia omkaliensis</i> Hewson	452
**	<i>Riccardia opuntiformis</i> S.W.Arnell	443
***	<i>Riccardia pallida</i> (Spruce) Meenks et C.De Jong	452
**	<i>Riccardia pallidevirens</i> (Steph.) A.Evans	443
***	<i>Riccardia palmata</i> (Hedw.) Carruth.	440
**	<i>Riccardia palmatifida</i> (Steph.) H.A.Mill.	452
*	<i>Riccardia palmatiformis</i> Schiffn.	452
**	<i>Riccardia papillata</i> (Gottsche) Hässel ex Gradst. et Hekking	452
**	<i>Riccardia papillosa</i> (C.Massal. et Steph.) Hässel	442
***	<i>Riccardia papulosa</i> (Steph.) E.A.Br.	444
**	<i>Riccardia paramorum</i> Meenks	452
***	<i>Riccardia parasitans</i> (Steph.) Meenks et C.De Jong	453
**	<i>Riccardia parvula</i> Schiffn.	453
**	<i>Riccardia patens</i> Hässel	444
**	<i>Riccardia pauciramea</i> (Steph.) H.A.Mill.	453
**	<i>Riccardia paulensis</i> Schiffn.	453
**	<i>Riccardia pectinata</i> (Austin) H.A.Mill.	453
**	<i>Riccardia pectinata</i> var. <i>fasciculata</i> (Steph.) Hürl.	438
**	<i>Riccardia pellucida</i> Piippo	453
**	<i>Riccardia pembaiensis</i> (Steph.) Hürl.	453
**	<i>Riccardia pengagensis</i> Hewson	453
***	<i>Riccardia pennata</i> E.A.Br.	443
***	<i>Riccardia perspicua</i> E.A.Br.	443
**	<i>Riccardia perssonii</i> S.C.Srivast. et Udar	453
***	<i>Riccardia philippinensis</i> Furuki	453
**	<i>Riccardia phlegamiana</i> Hewson	453
**	<i>Riccardia pindensis</i> Hewson	453
**	<i>Riccardia plana</i> (Steph.) Hürl.	453
*	<i>Riccardia plana</i> var. <i>minor</i> (Pearson) Hürl. ex H.A.Mill., H.Whittier et B.Whittier	453
**	<i>Riccardia planiflora</i> (Steph.) S.Hatt.	440
**	<i>Riccardia planiflora</i> var. <i>aequatorialis</i> Furuki	440
**	<i>Riccardia planifrons</i> (Spruce) Pagán	453
***	<i>Riccardia plumiformis</i> (Spruce) Hässel ex Meenks	453

**	<i>Riccardia plumosa</i> (Mitt.) E.O.Campb.....	453
***	<i>Riccardia poeppigiana</i> (Lehm. et Lindenb.) Hässel ex Meenks et C.De Jong.....	453
**	<i>Riccardia polyclada</i> (Mitt.) Hässel.....	444
**	<i>Riccardia porcina</i> (Hewson) L.Söderstr.....	454
**	<i>Riccardia portoricensis</i> (Steph.) Pagán.....	454
***	<i>Riccardia prehensilis</i> (Hook.f. et Taylor) C.Massal.....	438
**	<i>Riccardia pseudodendroceros</i> R.M.Schust.....	440
***	<i>Riccardia pumila</i> Furuki.....	440
**	<i>Riccardia punahuina</i> (Steph.) H.A.Mill.....	454
**	<i>Riccardia pusilla</i> Grolle.....	440
**	<i>Riccardia ramosissima</i> (Steph.) Grolle.....	454
**	<i>Riccardia regina</i> Meenks et C.De Jong.....	454
***	<i>Riccardia regnellii</i> (Ångstr.) K.G.Hell.....	454
**	<i>Riccardia regularis</i> (Steph.) Kühnem.....	442
**	<i>Riccardia reyesiana</i> Meenks.....	454
**	<i>Riccardia riccioides</i> Pearson.....	454
*	<i>Riccardia rigida</i> Schiffn.....	454
**	<i>Riccardia rivularis</i> Hässel.....	442
**	<i>Riccardia robbinsii</i> Hewson et Grolle.....	454
**	<i>Riccardia robusta</i> (Steph.) H.A.Mill.....	454
**	<i>Riccardia rockii</i> (Steph.) H.A.Mill.....	454
**	<i>Riccardia rupicola</i> (Steph.) Hewson.....	454
**	<i>Riccardia russellii</i> R.M.Schust.....	454
**	<i>Riccardia saccatiflora</i> (Steph.) S.W.Arnell.....	454
**	<i>Riccardia santapau</i> Udar et S.C.Srivast.....	454
**	<i>Riccardia saxicola</i> Hässel.....	442
***	<i>Riccardia schwanecke</i> (Steph.) Pagán.....	454
**	<i>Riccardia singapurensis</i> Schiffn.....	454
**	<i>Riccardia smaragdina</i> Meenks et C.De Jong.....	454
**	<i>Riccardia spectabilis</i> (Steph.) A.Evans.....	442
**	<i>Riccardia spegazziniana</i> C.Massal.....	443
**	<i>Riccardia spinulifera</i> C.Massal.....	444
***	<i>Riccardia spongiosa</i> Furuki.....	439
***	<i>Riccardia sprucei</i> (Steph.) Meenks et C.De Jong.....	454
**	<i>Riccardia squamifera</i> Schiffn.....	455
**	<i>Riccardia statensis</i> Hässel.....	444
*	<i>Riccardia stipatiflora</i> (Steph.) Pagán.....	455
**	<i>Riccardia stricta</i> R.M.Schust.....	455
***	<i>Riccardia subalpina</i> Furuki.....	440
**	<i>Riccardia subantarctica</i> Grolle et L.Söderstr.....	455
**	<i>Riccardia subexalata</i> Schiffn.....	455
*	<i>Riccardia subexalata</i> var. <i>procera</i> Schiffn.....	455
*	<i>Riccardia submersa</i> (Hook.f. et Taylor) Trevis.....	455
**	<i>Riccardia submultifida</i> Horik.....	455
**	<i>Riccardia subpalmata</i> (Steph.) Hürl.....	455
**	<i>Riccardia subsimplex</i> (Steph.) Pagán.....	455
**	<i>Riccardia sumatrana</i> Schiffn.....	455
**	<i>Riccardia tahitensis</i> (Steph.) Hürl.....	455
**	<i>Riccardia tamariscina</i> (Steph.) Schiffn.....	440
**	<i>Riccardia tenax</i> (Steph.) A.Evans.....	443
*	<i>Riccardia tenella</i> Hewson.....	455
**	<i>Riccardia tenerrima</i> (Steph.) A.Evans.....	443

***	<i>Riccardia tenuicula</i> (Spruce) Meenks.....	455
**	<i>Riccardia tenuis</i> (Steph.) Schiffn.....	455
**	<i>Riccardia thaxteri</i> A.Evans.....	444
**	<i>Riccardia theliophora</i> Hässel.....	443
*	<i>Riccardia tjiobodensis</i> Schiffn.....	455
***	<i>Riccardia trichomanoides</i> (Spruce) Hässel ex Meenks.....	455
**	<i>Riccardia tristaniana</i> S.W.Arnell.....	444
**	<i>Riccardia trukensis</i> H.A.Mill. et Bonner.....	455
**	<i>Riccardia tumberiensis</i> Hewson.....	455
*	<i>Riccardia umida</i> E.A.Br.....	441
**	<i>Riccardia upoluna</i> (Steph.) Grolle.....	456
**	<i>Riccardia valida</i> (Steph.) J.J.Engel.....	456
**	<i>Riccardia venosa</i> (Steph.) Hürl.....	456
*	<i>Riccardia villosa</i> (Steph.) Pandé et S.C.Srivast.....	456
**	<i>Riccardia virens</i> (Steph.) Hürl.....	456
**	<i>Riccardia virgata</i> (Gottsche) Pagán.....	456
***	<i>Riccardia vitrea</i> Furuki.....	440
**	<i>Riccardia wallisii</i> (Steph.) Gradst.....	456
**	<i>Riccardia wettsteinii</i> Schiffn.....	456
*	<i>Riccardia wettsteinii</i> var. <i>angustilimbata</i> Schiffn.....	456
*	<i>Riccardia wettsteinii</i> var. <i>crassa</i> Schiffn.....	456
*	<i>Riccardia wettsteinii</i> var. <i>procera</i> Schiffn.....	456
*	<i>Riccardia wettsteinii</i> var. <i>tenuiretis</i> Schiffn.....	456
**	<i>Riccardia womersleyana</i> Hewson.....	456
**	<i>Riccardia xylophila</i> Hässel.....	443
**	<i>Riccia abuenis</i> Bapna.....	499
**	<i>Riccia acutisulca</i> Steph.....	500
***	<i>Riccia alatospora</i> O.H.Volk et Perold.....	495
***	<i>Riccia albida</i> Sull. ex Austin.....	493
***	<i>Riccia albolimbata</i> S.W.Arnell.....	495
***	<i>Riccia albomarginata</i> Bisch. ex C.Krauss.....	495
***	<i>Riccia alboporosa</i> Perold.....	495
***	<i>Riccia albopunctata</i> Jovet-Ast.....	493
***	<i>Riccia albornata</i> O.H.Volk et Perold.....	493
***	<i>Riccia albovestita</i> O.H.Volk.....	495
*	<i>Riccia amboinensis</i> Schiffn.....	500
***	<i>Riccia ampullacea</i> Perold.....	495
***	<i>Riccia angolensis</i> Steph.....	495
**	<i>Riccia aravalliensis</i> Pandé et Udar.....	500
***	<i>Riccia argenteolimbata</i> O.H.Volk et Perold.....	495
*	<i>Riccia arnellii</i> Sultan Khan.....	500
**	<i>Riccia asprella</i> Carrington et Pearson.....	500
*	<i>Riccia asservanda</i> De Not. ex Lamothe.....	500
**	<i>Riccia atlantica</i> Sérgio et Perold.....	495
***	<i>Riccia atromarginata</i> Levier.....	496
**	<i>Riccia atromarginata</i> var. <i>jovet-astiae</i> Rauh et Buchloh.....	496
***	<i>Riccia atropurpurea</i> Sim.....	496
**	<i>Riccia attenuata</i> Pandé.....	500
***	<i>Riccia australis</i> Steph.....	493
*	<i>Riccia bahiensis</i> Steph.....	498
*	<i>Riccia balansae</i> Steph.....	500
***	<i>Riccia beyrichiana</i> Hampe.....	496

* <i>Riccia bialbistrata</i> Hässel	500
*** <i>Riccia bicarinata</i> Lindb.	496
*** <i>Riccia bicolorata</i> Perold	496
*** <i>Riccia bifurca</i> Hoffm.	496
*** <i>Riccia billardierei</i> Mont. et Nees	496
** <i>Riccia biokoensis</i> Perold	500
** <i>Riccia blackii</i> Na-Thalang.....	500
*** <i>Riccia boliviensis</i> Jovet-Ast.....	493
*** <i>Riccia brasiliensis</i> Schifff.	493
*** <i>Riccia breidleri</i> Jur. ex Steph.....	496
*** <i>Riccia breutelia</i> Hampe	493
*** <i>Riccia brittonii</i> M.Howe	493
*** <i>Riccia bullosa</i> Link	499
*** <i>Riccia californica</i> Austin	496
*** <i>Riccia campbelliana</i> M.Howe	496
*** <i>Riccia canaliculata</i> Hoffm.	498
*** <i>Riccia cancellata</i> Taylor	497
*** <i>Riccia caroliniana</i> Na-Thalang.....	500
** <i>Riccia cartilaginosa</i> Steph.....	500
*** <i>Riccia cavernosa</i> Hoffm.	499
* <i>Riccia chartacea</i> K.I.Goebel	500
*** <i>Riccia chiapasensis</i> Jovet-Ast	498
** <i>Riccia chinensis</i> Herzog.....	500
* <i>Riccia chudoana</i> Steph.....	493
*** <i>Riccia ciliata</i> Hoffm.	496
*** <i>Riccia ciliifera</i> Link	496
*** <i>Riccia cincta</i> Jovet-Ast	497
** <i>Riccia collata</i> Na-Thalang.....	500
** <i>Riccia compacta</i> Garside	500
*** <i>Riccia concava</i> Bisch. ex C.Krauss.....	495
* <i>Riccia congoana</i> Steph.	496
** <i>Riccia convexa</i> Steph.....	500
*** <i>Riccia coracina</i> Jovet-Ast	493
* <i>Riccia coronata</i> Sim	500
*** <i>Riccia corrugata</i> Jovet-Ast	493
** <i>Riccia crassa</i> Steph.....	500
*** <i>Riccia crassifrons</i> Spruce.....	498
*** <i>Riccia crassivenia</i> Jovet-Ast	493
** <i>Riccia crenatodentata</i> O.H.Volk	500
*** <i>Riccia crinita</i> Taylor.....	496
*** <i>Riccia crozalsii</i> Levier.....	496
*** <i>Riccia cruciata</i> Kashyap	497
* <i>Riccia crustata</i> Trab.	496
*** <i>Riccia crystallina</i> L.	499
*** <i>Riccia cubensis</i> S.W.Arnell.....	493
*** <i>Riccia cupulifera</i> A.V.Duthie	499
*** <i>Riccia curtisii</i> (Austin) Austin.....	499
** <i>Riccia delavayi</i> Steph.	500
** <i>Riccia deserticola</i> Steph.	500
** <i>Riccia dictyospora</i> M.Howe.....	496
*** <i>Riccia discolor</i> Lehm. et Lindenb.	494
*** <i>Riccia duplex</i> Lorb. ex Müll.Frib.	498

**	<i>Riccia duplex</i> var. <i>megaspora</i> Na-Thalang.....	498
***	<i>Riccia dussiana</i> Steph.	498
***	<i>Riccia eburnea</i> Jovet-Ast.....	497
***	<i>Riccia ekmanii</i> S.W.Arnell.....	494
***	<i>Riccia elliottii</i> Steph.....	494
***	<i>Riccia elongata</i> Perold.....	495
***	<i>Riccia enyae</i> Jovet-Ast.....	494
***	<i>Riccia erubescens</i> Perold.....	500
***	<i>Riccia erythrocarpa</i> Jovet-Ast.....	494
**	<i>Riccia esulcata</i> Steph.....	500
**	<i>Riccia fertilissima</i> Steph.....	500
***	<i>Riccia fluitans</i> L.....	498
***	<i>Riccia frostii</i> Austin.....	498
*	<i>Riccia frostii</i> var. <i>crystallinoides</i> Schiffn.....	498
***	<i>Riccia fruchartii</i> Steph.....	494
***	<i>Riccia furfuracea</i> Perold.....	495
***	<i>Riccia gangetica</i> Ahmad ex L.Söderstr., A.Hagborg et von Konrat.....	494
***	<i>Riccia garsidei</i> Sim.....	499
***	<i>Riccia geissleriana</i> Jovet-Ast.....	498
*	<i>Riccia gemmifera</i> O.H.Volk.....	500
***	<i>Riccia glauca</i> L.....	496
**	<i>Riccia glauca</i> var. <i>ciliaris</i> Warnst.....	496
**	<i>Riccia gothica</i> Damsh. et Hallingb.....	496
***	<i>Riccia gougetiana</i> Durieu et Mont.....	496
**	<i>Riccia gougetiana</i> var. <i>armatissima</i> Levier ex Müll.Frib.....	496
***	<i>Riccia grandis</i> Nees.....	494
**	<i>Riccia grollei</i> Udar.....	500
**	<i>Riccia handelii</i> Schiffn.....	500
***	<i>Riccia hantamensis</i> Perold.....	495
***	<i>Riccia hasckarlana</i> Steph.....	497
**	<i>Riccia hawaiiensis</i> Hürl.....	500
***	<i>Riccia hegewaldiana</i> Jovet-Ast.....	498
***	<i>Riccia helenae</i> Jovet-Ast.....	494
***	<i>Riccia hirsuta</i> O.H.Volk et Perold.....	495
**	<i>Riccia hirta</i> (Austin) Underw.....	494
***	<i>Riccia horrida</i> Jovet-Ast.....	494
***	<i>Riccia hortorum</i> Bory.....	494
***	<i>Riccia howellii</i> M.Howe.....	494
***	<i>Riccia huebeneriana</i> Lindenb.....	498
*	<i>Riccia huebeneriana</i> subsp. <i>sullivantii</i> (Austin) R.M.Schust.....	498
*	<i>Riccia ianthina</i> Jovet-Ast.....	494
**	<i>Riccia indica</i> Udar et A.Gupta.....	501
**	<i>Riccia indira-gandhiensis</i> Dabhade et A.Hasan.....	501
***	<i>Riccia inflexa</i> Taylor.....	494
*	<i>Riccia intermedia</i> Roum.....	501
***	<i>Riccia iodocheila</i> M.Howe.....	494
**	<i>Riccia jodhpurensis</i> Bapna.....	501
***	<i>Riccia jovet-astiae</i> E.Vianna.....	498
***	<i>Riccia junghuhniana</i> Nees et Lindenb.....	497
**	<i>Riccia junghuhniana</i> var. <i>simplex</i> Schiffn.....	497
**	<i>Riccia kirinensis</i> C.Gao et K.C.Chang.....	501
***	<i>Riccia lamellosa</i> Raddi.....	496

***	<i>Riccia lanceolata</i> Steph.	494
***	<i>Riccia laxisquamata</i> (Steph.) Steph.	501
**	<i>Riccia leptothallus</i> R.M.Schust.	499
**	<i>Riccia liaoningensis</i> C.Gao et K.C.Chang	501
***	<i>Riccia ligula</i> Steph.	496
***	<i>Riccia limbata</i> Bisch. ex C.Krauss.	496
***	<i>Riccia limicola</i> Jovet-Ast	498
***	<i>Riccia lindmanii</i> Steph.	494
**	<i>Riccia linearis</i> (Schiffn.) Steph.	501
**	<i>Riccia luticola</i> Na-Thalang.	501
**	<i>Riccia macallisteri</i> M.Howe	494
***	<i>Riccia macrocarpa</i> Levier	496
***	<i>Riccia macrospora</i> Steph.	494
**	<i>Riccia mamillata</i> Trab. ex Steph.	494
***	<i>Riccia mammifera</i> O.H.Volk et Perold	496
**	<i>Riccia mamrensis</i> Perold	501
***	<i>Riccia mangalorica</i> Ahmad ex Jovet-Ast	497
*	<i>Riccia marginata</i> Lindb.	501
***	<i>Riccia mauryana</i> Steph.	494
**	<i>Riccia melanospora</i> Kashyap.	501
***	<i>Riccia melitensis</i> C.Massal.	496
***	<i>Riccia membranacea</i> Gottsche et Lindenb.	493
***	<i>Riccia michelii</i> Raddi	496
***	<i>Riccia microciliata</i> O.H.Volk et Perold.	497
**	<i>Riccia miyakaeana</i> Schiffn.	501
***	<i>Riccia moenkemeyeri</i> Steph.	499
***	<i>Riccia montana</i> Perold.	497
***	<i>Riccia multifida</i> (Steph.) Steph.	498
**	<i>Riccia muscicola</i> Steph.	501
***	<i>Riccia namaquensis</i> Perold	495
***	<i>Riccia natalensis</i> Sim.	497
***	<i>Riccia nigerica</i> E.W.Jones	501
***	<i>Riccia nigrella</i> DC.	497
*	<i>Riccia nigrescens</i> Mont.	501
**	<i>Riccia nipponica</i> S.Hatt.	501
**	<i>Riccia novo-hannoverana</i> Schiffn.	501
**	<i>Riccia numeensis</i> Steph.	501
*	<i>Riccia obtusa</i> Meijer	501
***	<i>Riccia oerstediana</i> Lindenb. et Hampe	501
***	<i>Riccia okahandjana</i> S.W.Arnell	497
***	<i>Riccia olgensis</i> Na-Thalang	494
**	<i>Riccia ozarkiana</i> McGregor	497
**	<i>Riccia pandei</i> Udar	501
***	<i>Riccia papillispora</i> Steph.	501
***	<i>Riccia papillosa</i> Moris.	497
**	<i>Riccia papulosa</i> (Steph.) Steph.	501
**	<i>Riccia papulosa</i> var. <i>variabilis</i> Na-Thalang	502
***	<i>Riccia paraguayensis</i> Spruce	498
***	<i>Riccia paranaensis</i> Hässel	499
***	<i>Riccia parvoareolata</i> O.H.Volk et Perold	495
**	<i>Riccia pathankotensis</i> Kashyap	502
***	<i>Riccia perennis</i> Steph.	499

***	<i>Riccia personii</i> Sultan Khan	499
*	<i>Riccia perthiana</i> Steph. ex K.I.Goebel	502
***	<i>Riccia planobiconvexa</i> Steph.	494
**	<i>Riccia polycarpa</i> (Trab.) Jelenc.....	498
***	<i>Riccia porosa</i> Taylor	498
***	<i>Riccia pottsiana</i> Sim	497
*	<i>Riccia prominens</i> Meijer.....	502
**	<i>Riccia pseudofluitans</i> C.Gao et K.C.Chang	502
**	<i>Riccia pubescens</i> S.Hatt.....	502
***	<i>Riccia pullulans</i> Jovet-Ast	498
***	<i>Riccia pulveracea</i> Perold	495
***	<i>Riccia purpurascens</i> Lehm.	499
***	<i>Riccia radiata</i> Perold	502
***	<i>Riccia radicata</i> Pearson	495
**	<i>Riccia rechingeri</i> Steph.....	502
*	<i>Riccia reticulatula</i> Udar	502
**	<i>Riccia rhenana</i> Lorb. ex Müll.Frib.....	499
**	<i>Riccia rhenana</i> var. <i>violacea</i> M.F.Boiko	499
***	<i>Riccia ridleyi</i> A.Gepp.....	494
**	<i>Riccia rorida</i> Na-Thalang	502
***	<i>Riccia rosea</i> O.H.Volk et Perold.....	497
***	<i>Riccia rubricollis</i> Garside et A.V.Duthie ex Perold.....	499
*	<i>Riccia runsorensis</i> Steph.	497
*	<i>Riccia saharensis</i> Steph. ex Jovet-Ast	502
***	<i>Riccia sanguineisporis</i> Jovet-Ast	494
**	<i>Riccia satoi</i> S.Hatt.	502
***	<i>Riccia schelpei</i> O.H.Volk et Perold	493
*	<i>Riccia schroederi</i> Steph.....	502
***	<i>Riccia schweinfurthii</i> Steph.	502
**	<i>Riccia sibayeni</i> Perold	502
***	<i>Riccia simii</i> Perold.....	495
***	<i>Riccia singularis</i> Jovet-Ast	499
***	<i>Riccia somaliensis</i> Perold	502
***	<i>Riccia sommieri</i> Levier	497
***	<i>Riccia sorocarpa</i> Bisch.	497
**	<i>Riccia sorocarpa</i> subsp. <i>sorocarpa</i> var. <i>heegii</i> Schiffn.....	497
**	<i>Riccia spongiosula</i> Na-Thalang	502
***	<i>Riccia squamata</i> Nees	495
***	<i>Riccia stricta</i> (Lindenb.) Perold	499
***	<i>Riccia subbifurca</i> Warnst. ex Croz.	497
***	<i>Riccia subdepilata</i> Jovet-Ast	495
***	<i>Riccia subplana</i> Steph.	495
*	<i>Riccia subtilis</i> (Steph.) Steph.	502
**	<i>Riccia sumatrana</i> Meijer	502
***	<i>Riccia symoensii</i> Vanden Berghen	502
***	<i>Riccia taeniiformis</i> Jovet-Ast	495
**	<i>Riccia tasmanica</i> Steph. ex Rodway	502
**	<i>Riccia tenella</i> D.L.Jacobs	497
***	<i>Riccia tomentosa</i> O.H.Volk et Perold	502
***	<i>Riccia trabutiana</i> Steph.	497
***	<i>Riccia trachyglossa</i> Perold.....	495
**	<i>Riccia treubiana</i> Steph.....	502

* <i>Riccia treubiana</i> var. <i>subrubescens</i> Schiffn.....	502
* <i>Riccia triangularis</i> Steph.....	502
* <i>Riccia tuberculata</i> Poir.....	502
** <i>Riccia udarii</i> Kanwal.....	502
* <i>Riccia velenovskyi</i> Kavina.....	503
** <i>Riccia velimalaiana</i> A.E.D.Daniels et P.Daniel.....	503
*** <i>Riccia viannae</i> Jovet-Ast.....	495
** <i>Riccia victoriensis</i> Steph.....	503
*** <i>Riccia villosa</i> Steph.....	495
*** <i>Riccia violacea</i> M.Howe.....	497
*** <i>Riccia violacea</i> var. <i>laevis</i> Jovet-Ast.....	497
*** <i>Riccia vitalii</i> Jovet-Ast.....	495
*** <i>Riccia vitrea</i> Perold.....	495
*** <i>Riccia volkii</i> S.W.Arnell.....	499
*** <i>Riccia vulcanicola</i> Eb.Fisch.....	499
*** <i>Riccia warnstorffii</i> Limpr. ex Warnst.....	497
*** <i>Riccia weinionis</i> Steph.....	495
** <i>Riccia weymouthiana</i> Steph. ex Rodway.....	503
** <i>Riccia wichuruae</i> Steph.....	503
*** <i>Ricciolepis natans</i> (L.) Corda.....	503
*** <i>Riella affinis</i> M.Howe et Underw.....	506
*** <i>Riella alatospora</i> Wigglesw.....	505
*** <i>Riella americana</i> M.Howe et Underw.....	505
* <i>Riella battandieri</i> Trab.....	505
*** <i>Riella bialata</i> Trab.....	505
*** <i>Riella capensis</i> Cavers.....	505
*** <i>Riella choconensis</i> Hässel.....	505
*** <i>Riella cossoniana</i> Trab.....	506
* <i>Riella cyrenaica</i> Maire.....	505
*** <i>Riella echinata</i> (Müll.Frib.) Segarra, Puche et Sabovlj.....	506
*** <i>Riella echinospora</i> Wigglesw.....	505
* <i>Riella gallica</i> Balansa ex Trab.....	505
*** <i>Riella gamundiae</i> Hässel.....	506
*** <i>Riella halophila</i> Banwell.....	505
*** <i>Riella helicophylla</i> (Bory et Mont.) Mont.....	505
* <i>Riella helicophylla</i> var. <i>macrocarpa</i> P.Allorge.....	505
*** <i>Riella heliospora</i> Segarra, Puche et Sabovlj.....	506
* <i>Riella indica</i> Steph. ex Kashyap.....	505
*** <i>Riella mediterranea</i> Segarra, Puche, Sabovlj., M.Infante et Heras.....	506
*** <i>Riella notarisii</i> (Mont.) Mont.....	505
** <i>Riella numidica</i> Trab.....	505
*** <i>Riella pampae</i> Hässel.....	505
*** <i>Riella parisii</i> Gottsche.....	505
*** <i>Riella purpureospora</i> Wigglesw.....	505
* <i>Riella reuteri</i> Mont.....	505
* <i>Riella sersuensis</i> Trab.....	505
** <i>Riella spiculata</i> J.Taylor.....	505
*** <i>Riella trigonospora</i> Segarra et Puche.....	506
*** <i>Riella undulata</i> Hässel.....	506
** <i>Rivulariella gemmipara</i> (A.Evans) D.H.Wagner.....	122
*** <i>Ruizanthus venezuelanus</i> R.M.Schust.....	103
*** <i>Saccobasis polita</i> (Nees) H.Buch.....	85

**	<i>Saccobasis polymorpha</i> (R.M.Schust.) Schljakov	85
*	<i>Saccogyna ligulata</i> Steph.	122
**	<i>Saccogyna subacuta</i> Steph.	122
*	<i>Saccogyna tridens</i> Steph.	122
***	<i>Saccogyna viticulosa</i> (L.) Dumort.	98
***	<i>Saccogynidium australe</i> (Mitt.) Grolle	98
**	<i>Saccogynidium caldense</i> (Ångstr.) Grolle	98
**	<i>Saccogynidium chiloscyphoides</i> R.M.Schust.	98
***	<i>Saccogynidium decurvum</i> (Mitt.) Grolle	98
**	<i>Saccogynidium goebelii</i> (Herzog) Grolle	98
**	<i>Saccogynidium irregularospinum</i> C.Gao, T.Cao et M.J.Lai	98
**	<i>Saccogynidium muricellum</i> (De Not.) Grolle	98
**	<i>Saccogynidium rigidulum</i> (Nees) Grolle	98
***	<i>Saccogynidium vasculosum</i> (Hook.f. et Taylor) Grolle	98
**	<i>Sandeothallus japonicus</i> (Inoue) Crand.-Stotl. et Stotler	474
**	<i>Sandeothallus radiculosus</i> (Schiffn.) R.M.Schust.	474
***	<i>Sauteria alpina</i> (Nees) Nees	485
*	<i>Sauteria chilensis</i> (Lindenb.) Grolle	485
*	<i>Sauteria crassipes</i> Austin	485
*	<i>Sauteria inflata</i> C.Gao et K.C.Chang	485
*	<i>Sauteria japonica</i> (Shimizu et S.Hatt.) S.Hatt.	485
*	<i>Sauteria nyikaensis</i> Perold	485
***	<i>Sauteria spongiosa</i> (Kashyap) S.Hatt.	485
***	<i>Scapania aequiloba</i> (Schwägr.) Dumort.	87
***	<i>Scapania americana</i> Müll.Frib.	87
***	<i>Scapania ampliata</i> Steph.	85
**	<i>Scapania ampliata</i> subsp. <i>queenslandica</i> M.L.Hicks	85
***	<i>Scapania apiculata</i> Spruce	87
***	<i>Scapania aspera</i> M.Bernet et Bernet	87
***	<i>Scapania bhutanensis</i> Amakawa	88
***	<i>Scapania bolanderi</i> Austin	85
***	<i>Scapania brevicaulis</i> Taylor	90
***	<i>Scapania calcicola</i> (Arnell et J.Perss.) Ingham	90
***	<i>Scapania carinthiaca</i> J.B.Jack ex Lindb.	87
***	<i>Scapania carinthiaca</i> var. <i>massalongi</i> Müll.Frib.	87
***	<i>Scapania ciliata</i> Sande Lac.	88
**	<i>Scapania ciliata</i> subsp. <i>hawaiiica</i> (Müll.Frib.) Potemkin	88
***	<i>Scapania ciliatospinosa</i> Horik.	86
***	<i>Scapania compacta</i> (Roth) Dumort.	88
***	<i>Scapania contorta</i> Mitt.	85
***	<i>Scapania crassiretis</i> Bryhn	90
***	<i>Scapania curta</i> (Mart.) Dumort.	88
**	<i>Scapania curta</i> var. <i>grandiretis</i> R.M.Schust.	88
**	<i>Scapania curta</i> var. <i>isoloba</i> R.M.Schust.	88
***	<i>Scapania cuspiduligera</i> (Nees) Müll.Frib.	89
**	<i>Scapania cuspiduligera</i> var. <i>diplophyllopsis</i> R.M.Schust.	89
***	<i>Scapania davidii</i> Potemkin	86
*	<i>Scapania degenii</i> Schiffn. ex Müll.Frib.	90
***	<i>Scapania diplophylloides</i> Amakawa et S.Hatt.	88
***	<i>Scapania esterhuyseniae</i> S.W.Arnell	88
**	<i>Scapania ferruginaeoides</i> T.Cao, C.Gao et J.Sun	86
***	<i>Scapania ferruginea</i> (Lehm. et Lindenb.) Lehm. et Lindenb.	87

***	<i>Scapania fulfordiae</i> W.S.Hong	88
***	<i>Scapania gamundiae</i> R.M.Schust.....	88
**	<i>Scapania gaochii</i> X.Fu ex T.Cao	86
*	<i>Scapania geppii</i> Steph.....	86
***	<i>Scapania gigantea</i> Horik.....	91
***	<i>Scapania glaucocephala</i> (Taylor) Austin	92
***	<i>Scapania glaucocephala</i> var. <i>saxicola</i> (R.M.Schust.) Potemkin	92
*	<i>Scapania glaucoviridis</i> Horik.....	90
***	<i>Scapania gracilis</i> Lindb.....	85
**	<i>Scapania grandiloba</i> Steph.....	91
***	<i>Scapania griffithii</i> Schiffn.....	92
**	<i>Scapania grossidens</i> Steph. ex Müll.Frib.....	91
***	<i>Scapania gymnostomophila</i> Kaal.....	90
***	<i>Scapania harae</i> Amakawa	86
***	<i>Scapania hedbergii</i> S.W.Arnell.....	91
***	<i>Scapania helvetica</i> Gottsche.....	89
***	<i>Scapania hians</i> Steph. ex Müll.Frib.....	87
**	<i>Scapania hians</i> subsp. <i>salishensis</i> J.D.Godfrey et G.Godfrey.....	87
***	<i>Scapania himalayica</i> Müll.Frib. ex Herzog	90
***	<i>Scapania hirosakiensis</i> Steph. ex Müll.Frib.....	88
***	<i>Scapania hollandiae</i> W.S.Hong.....	88
***	<i>Scapania hyperborea</i> Jørg.....	90
***	<i>Scapania integerrima</i> Steph.....	91
***	<i>Scapania irrigua</i> (Nees) Nees.....	89
**	<i>Scapania irrigua</i> subsp. <i>rufescens</i> (Loeske) R.M.Schust.....	89
***	<i>Scapania javanica</i> Gottsche.....	92
*	<i>Scapania javanica</i> var. <i>scabra</i> Schiffn.....	92
***	<i>Scapania karl-muelleri</i> Grolle	90
***	<i>Scapania kaurinii</i> Ryan	88
***	<i>Scapania komagadakensis</i> Amakawa.....	91
***	<i>Scapania koponenii</i> Potemkin.....	88
***	<i>Scapania lepida</i> Mitt.....	88
***	<i>Scapania ligulata</i> Steph.....	92
**	<i>Scapania ligulata</i> subsp. <i>stephanii</i> (Müll.Frib.) Potemkin, Piippo et T.J.Kop.....	92
***	<i>Scapania ligulifolia</i> R.M.Schust.....	90
***	<i>Scapania lingulata</i> H.Buch.....	89
**	<i>Scapania lingulata</i> var. <i>microphylla</i> (Warnst.) R.M.Schust.....	89
**	<i>Scapania macroparaphyllia</i> T.Cao, C.Gao et J.Sun	85
**	<i>Scapania magadanica</i> S.S.Choi, Bakalin et B.Y.Sun.....	89
***	<i>Scapania matveyevae</i> Potemkin.....	91
***	<i>Scapania maxima</i> Horik.....	85
***	<i>Scapania microdonta</i> (Mitt.) Müll.Frib.....	87
***	<i>Scapania mucronata</i> H.Buch	89
***	<i>Scapania nemorea</i> (L.) Grolle	91
***	<i>Scapania nimbosea</i> Taylor.....	86
***	<i>Scapania nipponica</i> (Amakawa et S.Hatt.) Amakawa	85
***	<i>Scapania obcordata</i> (Berggr.) S.W.Arnell	89
***	<i>Scapania obscura</i> (Arnell et C.E.O.Jensen) Schiffn.....	91
***	<i>Scapania orientalis</i> Steph. ex Müll.Frib.....	87
***	<i>Scapania ornithopodioides</i> (With.) Waddell	86
***	<i>Scapania paludicola</i> Loeske et Müll.Frib.....	90
**	<i>Scapania paludicola</i> var. <i>viridigemma</i> R.M.Schust.....	90

**	<i>Scapania paludosa</i> (Müll.Frib.) Müll.Frib.....	91
**	<i>Scapania paraphyllia</i> T.Cao, C.Gao, J.Sun et B.R.Zuo.....	85
**	<i>Scapania parvidens</i> Steph.....	91
**	<i>Scapania parvifolia</i> Warnst.....	89
***	<i>Scapania parvitexta</i> Steph.....	91
***	<i>Scapania portoricensis</i> Hampe et Gottsche.....	86
**	<i>Scapania portoricensis</i> var. <i>boliviensis</i> (Steph.) Herzog.....	86
**	<i>Scapania portoricensis</i> var. <i>organensis</i> (Herzog) Herzog.....	86
**	<i>Scapania portoricensis</i> var. <i>roraimensis</i> Warnst.....	86
***	<i>Scapania praetervisa</i> Meyl.....	89
***	<i>Scapania pseudocalcicola</i> R.M.Schust.....	90
***	<i>Scapania pseudocontorta</i> Potemkin.....	87
***	<i>Scapania rigida</i> Nees.....	91
***	<i>Scapania rotundifolia</i> W.E.Nicholson.....	86
***	<i>Scapania rufidula</i> Warnst.....	91
***	<i>Scapania sandei</i> Schiffn. ex Müll.Frib.....	88
***	<i>Scapania scandica</i> (Arnell et H.Buch) Macvicar.....	89
**	<i>Scapania scandica</i> var. <i>argutedentata</i> H.Buch.....	89
**	<i>Scapania scandica</i> var. <i>dimorpha</i> R.M.Schust.....	89
**	<i>Scapania scandica</i> var. <i>grandiretis</i> (Schljakov) Schljakov.....	89
*	<i>Scapania scapanioides</i> (C.Massal.) Grolle.....	92
***	<i>Scapania schljakovii</i> Potemkin.....	90
***	<i>Scapania secunda</i> Steph.....	86
***	<i>Scapania serrulata</i> R.M.Schust.....	91
***	<i>Scapania simmonsii</i> Bryhn et Kaal.....	92
***	<i>Scapania sinikkae</i> Potemkin.....	87
***	<i>Scapania sphaerifera</i> H.Buch et Tuom.....	92
***	<i>Scapania spiniloba</i> Potemkin.....	87
***	<i>Scapania spitsbergensis</i> (Lindb.) Müll.Frib.....	88
***	<i>Scapania subalpina</i> (Nees ex Lindenb.) Dumort.....	91
**	<i>Scapania subalpina</i> var. <i>haynesiae</i> Frye et L.Clark.....	91
**	<i>Scapania subalpina</i> var. <i>muddiae</i> C.D.Bird et W.S.Hong.....	91
***	<i>Scapania subnimbosa</i> Steph.....	85
***	<i>Scapania tundrae</i> (Arnell) H.Buch.....	90
***	<i>Scapania udarii</i> S.C.Srivast. et A.Srivast.....	92
***	<i>Scapania uliginosa</i> (Lindenb.) Dumort.....	89
***	<i>Scapania umbrosa</i> (Schrad.) Dumort.....	87
***	<i>Scapania undulata</i> (L.) Dumort.....	91
***	<i>Scapania valdonii</i> Váňa, Bedn.-Ochyra et Cykowska.....	89
***	<i>Scapania verrucosa</i> Heeg.....	92
***	<i>Scapania zemliae</i> S.W.Arnell.....	89
***	<i>Scapania zhukovae</i> Potemkin.....	86
***	<i>Schiffneria hyalina</i> Steph.....	64
***	<i>Schiffneriolejeunea altimontana</i> Vanden Berghen.....	411
***	<i>Schiffneriolejeunea amazonica</i> Gradst.....	411
***	<i>Schiffneriolejeunea cumingiana</i> (Mont.) Gradst.....	412
***	<i>Schiffneriolejeunea ferruginea</i> (Steph.) Gradst.....	412
***	<i>Schiffneriolejeunea fragilis</i> Gradst. et E.W.Jones.....	411
***	<i>Schiffneriolejeunea madagascariensis</i> (Steph.) Gradst.....	411
***	<i>Schiffneriolejeunea occulta</i> (Steph.) Gradst.....	412
***	<i>Schiffneriolejeunea ompalanthoides</i> Verd.....	412
***	<i>Schiffneriolejeunea parviloba</i> (Steph.) Gradst.....	411

***	<i>Schiffneriolejeunea tumida</i> (Nees) Gradst.....	412
***	<i>Schiffneriolejeunea tumida</i> var. <i>haskarlana</i> (Gottsche) Gradst. et Terken.....	412
***	<i>Schiffneriolejeunea nymannii</i> (Steph.) Gradst. et Terken.....	412
***	<i>Schiffneriolejeunea pappeana</i> (Nees) Gradst.....	411
***	<i>Schiffneriolejeunea pappeana</i> var. <i>bidentata</i> Gradst. et Vanden Berghen.....	411
***	<i>Schiffneriolejeunea pappeana</i> var. <i>integra</i> Gradst. et Vanden Berghen.....	411
***	<i>Schiffneriolejeunea polycarpa</i> (Nees) Gradst.....	412
***	<i>Schiffneriolejeunea pulopenangensis</i> (Gottsche) Gradst.....	412
*	<i>Schisma orizabense</i> (Gottsche) Steph.....	511
*	<i>Schisma uleanum</i> Steph.....	511
**	<i>Schistochila acuminata</i> Steph.....	259
***	<i>Schistochila aequiloba</i> Steph.....	259
***	<i>Schistochila alata</i> (Lehm.) Schiffn.....	259
***	<i>Schistochila aligera</i> (Nees et Blume) J.B.Jack et Steph.....	259
*	<i>Schistochila aligera</i> var. <i>laxa</i> (Nees) Schiffn.....	259
***	<i>Schistochila altissima</i> E.A.Hodgs.....	259
**	<i>Schistochila altissima</i> subsp. <i>polystratosa</i> R.M.Schust. et J.J.Engel.....	259
***	<i>Schistochila antara</i> Grolle.....	259
***	<i>Schistochila appendiculata</i> (Hook.) Dumort. ex Trevis.....	259
*	<i>Schistochila baileyana</i> Steph.....	259
***	<i>Schistochila balfouriana</i> (Hook.f. et Taylor) Steph.....	259
***	<i>Schistochila beccariana</i> (De Not.) Trevis.....	260
***	<i>Schistochila berggrenii</i> (J.J.Engel et R.M.Schust.) Xiao L.He et Glenny.....	260
***	<i>Schistochila berteriana</i> (Hook.) Steph.....	260
***	<i>Schistochila blumei</i> (Nees) Trevis.....	260
**	<i>Schistochila brassii</i> Grolle.....	260
**	<i>Schistochila caledonica</i> Steph.....	260
***	<i>Schistochila carnosa</i> (Mitt.) Steph.....	260
***	<i>Schistochila caudata</i> R.M.Schust. et J.J.Engel.....	260
***	<i>Schistochila childii</i> (R.M.Schust. et J.J.Engel) Xiao L.He et Glenny.....	260
***	<i>Schistochila chlorophylla</i> (Colenso) E.A.Hodgs.....	260
***	<i>Schistochila ciliata</i> (Mitt.) Steph.....	260
***	<i>Schistochila compacta</i> (Colenso) E.A.Hodgs.....	260
***	<i>Schistochila conchophylla</i> Herzog ex E.A.Hodgs. et Allison.....	260
**	<i>Schistochila conchophylla</i> var. <i>multidentata</i> (J.J.Engel) Xiao L.He et Glenny.....	260
***	<i>Schistochila congoana</i> Steph.....	260
**	<i>Schistochila cookei</i> (H.A.Mill.) R.M.Schust.....	260
**	<i>Schistochila crinita</i> Grolle.....	260
***	<i>Schistochila cristata</i> Steph.....	261
***	<i>Schistochila cunninghamii</i> Steph.....	261
**	<i>Schistochila doriae</i> (De Not.) Trevis.....	261
**	<i>Schistochila engleriana</i> Steph.....	261
***	<i>Schistochila exalata</i> Herzog.....	261
**	<i>Schistochila fijiensis</i> H.Buch et Herzog.....	261
***	<i>Schistochila glaucescens</i> (Hook.) A.Evans.....	261
**	<i>Schistochila hattorii</i> Grolle.....	261
**	<i>Schistochila integerrima</i> Steph.....	261
**	<i>Schistochila isotachyphylla</i> (J.J.Engel et R.M.Schust.) Xiao L.He et Glenny.....	261
***	<i>Schistochila kirkiana</i> Steph.....	261
***	<i>Schistochila kunkelii</i> S.W.Arnell.....	261
**	<i>Schistochila lacerata</i> Steph.....	261
***	<i>Schistochila lamellata</i> (Hook.) Dumort. ex A.Evans.....	261

***	<i>Schistochila laminigera</i> (Hook.f. et Taylor) A.Evans	261
***	<i>Schistochila latiloba</i> (R.M.Schust. et J.J.Engel) Xiao L.He et Glenny.....	261
***	<i>Schistochila lehmanniana</i> (Lindenb.) Steph.....	261
***	<i>Schistochila leucophylla</i> (Lehm. ex Gottsche, Lindenb. et Nees) Steph.	261
**	<i>Schistochila macrodonta</i> W.E.Nicholson	261
**	<i>Schistochila minor</i> C.Gao et Y.H.Wu	261
***	<i>Schistochila monticola</i> R.M.Schust.	262
***	<i>Schistochila muricata</i> E.A.Hodgs. et Allison.....	262
***	<i>Schistochila nadeaudiana</i> Steph.....	262
**	<i>Schistochila neesii</i> (Mont.) Lindb.	262
***	<i>Schistochila nitidissima</i> R.M.Schust.	262
***	<i>Schistochila nivicola</i> (R.M.Schust. et J.J.Engel) Xiao L.He et Glenny	262
***	<i>Schistochila nobilis</i> (Hook.) Trevis.	262
***	<i>Schistochila nuda</i> Horik.	262
***	<i>Schistochila pachyphylla</i> (Lehm.) Steph.	262
***	<i>Schistochila papillifera</i> R.M.Schust.	262
***	<i>Schistochila parvistipula</i> Rodway.....	262
***	<i>Schistochila pellucida</i> R.M.Schust. et J.J.Engel.....	262
***	<i>Schistochila piligera</i> Steph.....	262
***	<i>Schistochila pinnatifolia</i> (Hook.) Trevis.	262
***	<i>Schistochila pluriciliata</i> R.M.Schust. et J.J.Engel.....	262
***	<i>Schistochila pseudociliata</i> R.M.Schust.	262
***	<i>Schistochila quadrifida</i> A.Evans.....	262
**	<i>Schistochila ramentacea</i> Steph.	262
***	<i>Schistochila reflexa</i> (Mont.) Steph.	262
***	<i>Schistochila reflexistipula</i> J.J.Engel et R.M.Schust.	263
***	<i>Schistochila reinwardtii</i> (Nees) Schiffn.....	263
***	<i>Schistochila repleta</i> (Hook.f. et Taylor) Steph.	263
**	<i>Schistochila rubriseta</i> Steph.	263
**	<i>Schistochila schultzei</i> Steph.	263
***	<i>Schistochila sciophila</i> R.M.Schust.....	263
***	<i>Schistochila sciurea</i> (Nees) Schiffn.....	263
***	<i>Schistochila simulans</i> (C.Massal.) Xiao L.He et Yu Sun.....	263
***	<i>Schistochila spagazziniana</i> (C.Massal.) Steph.....	263
***	<i>Schistochila sphagnoides</i> (Schwägr.) Lindb. ex Steph.....	263
***	<i>Schistochila splachnophylla</i> (Hook.f. et Taylor) Steph.....	263
**	<i>Schistochila stratosa</i> (Mont.) A.Evans.....	263
***	<i>Schistochila subhyalina</i> R.M.Schust.	263
**	<i>Schistochila subhyalina</i> var. <i>grandidentata</i> (J.J.Engel et R.M.Schust.) Xiao L.He et Glenny.....	263
***	<i>Schistochila subimmersa</i> J.J.Engel et R.M.Schust.....	263
***	<i>Schistochila succulenta</i> (J.J.Engel et R.M.Schust.) Xiao L.He et Glenny.....	263
***	<i>Schistochila tasmanica</i> Steph.	264
***	<i>Schistochila trispiralis</i> R.M.Schust.....	264
***	<i>Schistochila tuloides</i> (Hook.f. et Taylor) Steph.	264
***	<i>Schistochila undulatifolia</i> Piippo	264
***	<i>Schistochila virescens</i> R.M.Schust.	264
***	<i>Schistochila vitreocincta</i> (Herzog) Xiao L.He et Glenny	264
**	<i>Schistochila volans</i> Grolle	264
***	<i>Schistochila yakushimensis</i> N.Ohnishi et Deguchi	264
**	<i>Schistochila zantenii</i> Grolle	264
***	<i>Schistochilopsis cornuta</i> (Steph.) Konstant.	93
***	<i>Schistochilopsis grandiretis</i> (Lindb. ex Kaal.) Konstant.	93

**	<i>Schistochilopsis hyperarctica</i> Konstant. et L.Söderstr.	93
***	<i>Schistochilopsis incisa</i> (Schrad.) Konstant.	93
*	<i>Schistochilopsis nakanishii</i> (Inoue) Konstant.	93
**	<i>Schistochilopsis opacifolia</i> (Culm. ex Meyl.) Konstant.	93
***	<i>Schistochilopsis setosa</i> (Mitt.) Konstant.	93
**	<i>Schizophyllopsis aristata</i> (Herzog ex N.Kitag.) Váňa et L.Söderstr.	54
***	<i>Schizophyllopsis bidens</i> (Reinw., Blume et Nees) Váňa et L.Söderstr.	54
**	<i>Schizophyllopsis lanciloba</i> (Steph.) Váňa et L.Söderstr.	54
***	<i>Schizophyllopsis papillosa</i> (J.J.Engel et Braggins) Váňa et L.Söderstr.	54
***	<i>Schizophyllopsis sphenoloboides</i> (R.M.Schust.) Váňa et L.Söderstr.	54
***	<i>Schljakovia kunzeana</i> (Huebener) Konstant. et Vilnet	55
***	<i>Schljakovianthus quadrilobus</i> (Lindb.) Konstant. et Vilnet	55
***	<i>Schusterolejeunea inundata</i> (Spruce) Grolle	350
***	<i>Seppeltia succuba</i> Grolle	471
***	<i>Sewardiella tuberifera</i> Kashyap	468
**	<i>Siphonolejeunea elegantissima</i> (Steph.) Grolle	350
**	<i>Siphonolejeunea neesii</i> (Mont.) Bischl.	350
***	<i>Siphonolejeunea schiffneri</i> (Schiffn.) Herzog	350
***	<i>Solenostoma amoenum</i> (Lindenb. et Gottsche) R.M.Schust. ex Váňa, Hentschel et Heinrichs.	129
***	<i>Solenostoma amplexifolium</i> (Hampe) Váňa et Schäf.-Verw.	129
**	<i>Solenostoma appalachianum</i> R.M.Schust. ex Bakalin	129
***	<i>Solenostoma appressifolium</i> (Mitt.) Váňa et D.G.Long	129
***	<i>Solenostoma appressifolium</i> var. <i>minor</i> (Amakawa) Váňa et D.G.Long	129
***	<i>Solenostoma appressifolium</i> var. <i>nigricans</i> (Amakawa) Váňa et D.G.Long	129
***	<i>Solenostoma ariadne</i> (Taylor) R.M.Schust. ex Váňa et D.G.Long	129
***	<i>Solenostoma atrobrunneum</i> (Amakawa) Váňa et D.G.Long	129
***	<i>Solenostoma atrevolutum</i> (Grolle ex Amakawa) Váňa et D.G.Long	129
***	<i>Solenostoma atrovirens</i> Steph.	129
***	<i>Solenostoma balfourii</i> (Váňa) Váňa, Hentschel et Heinrichs.	125
***	<i>Solenostoma baueri</i> (Schiffn.) Steph.	130
***	<i>Solenostoma bengalense</i> (Amakawa) Váňa et D.G.Long	130
***	<i>Solenostoma bilobum</i> (S.Hatt. ex Amakawa) Potemkin et Nyushko	123
***	<i>Solenostoma borneense</i> (Amakawa) Váňa, Hentschel et Heinrichs.	125
**	<i>Solenostoma breviflorum</i> Kashyap et R.S.Chopra	130
***	<i>Solenostoma caeleste</i> (Inoue et Váňa) Váňa, Hentschel et Heinrichs	130
***	<i>Solenostoma callithrix</i> (Lindenb. et Gottsche) Steph.	125
*	<i>Solenostoma caoi</i> (C.Gao et X.L.Bai) Váňa et D.G.Long	130
***	<i>Solenostoma caucasicum</i> (Váňa) Konstant.	130
***	<i>Solenostoma champawatense</i> (S.N.Srivast. et Amakawa) Váňa et D.G.Long	125
***	<i>Solenostoma chenianum</i> (C.Gao, Y.H.Wu et Grolle) Váňa et D.G.Long	130
***	<i>Solenostoma clavellatum</i> Mitt. ex Steph.	130
***	<i>Solenostoma comatum</i> (Nees) C.Gao	125
***	<i>Solenostoma comatum</i> var. <i>novae-guineae</i> (Váňa) Váňa, Hentschel et Heinrichs	125
***	<i>Solenostoma confertissimum</i> (Nees) Schljakov	130
***	<i>Solenostoma coniflorum</i> (Schiffn.) Steph.	130
***	<i>Solenostoma crassulum</i> (Nees et Mont.) Steph.	130
***	<i>Solenostoma crenuliforme</i> (Austin) Steph.	125
**	<i>Solenostoma cryptogynum</i> R.M.Schust. ex J.J.Engel	130
***	<i>Solenostoma cyclops</i> (S.Hatt.) R.M.Schust.	130
***	<i>Solenostoma decolor</i> (Schiffn.) R.M.Schust. ex Váňa, Hentschel et Heinrichs	125
***	<i>Solenostoma diversiclavellatum</i> (Amakawa et Grolle) R.M.Schust. ex Váňa et D.G.Long	130
***	<i>Solenostoma dulongense</i> Váňa et D.G.Long	130

***	<i>Solenostoma dusenii</i> (Steph.) Váňa, Hentschel et Heinrichs	125
***	<i>Solenostoma emarginatum</i> (Amakawa) Váňa, Hentschel et Heinrichs.....	124
***	<i>Solenostoma erectum</i> (Amakawa) C.Gao.....	125
***	<i>Solenostoma exsertum</i> (A.Evans) Steph.	131
***	<i>Solenostoma faurieanum</i> (Beauverd) R.M.Schust.	131
*	<i>Solenostoma flagellalioides</i> C.Gao	125
***	<i>Solenostoma flagellare</i> (Amakawa) Váňa et D.G.Long	131
***	<i>Solenostoma flagellatum</i> (S.Hatt.) Váňa et D.G.Long.....	124
***	<i>Solenostoma flavialbicans</i> (Amakawa et Grolle) Váňa et D.G.Long.....	126
***	<i>Solenostoma flavorevolutum</i> (Váňa) Váňa et D.G.Long	131
***	<i>Solenostoma fossombronioides</i> (Austin) R.M.Schust.	126
***	<i>Solenostoma fusiforme</i> (Steph.) R.M.Schust.....	124
***	<i>Solenostoma glaucum</i> (Amakawa) Váňa et D.G.Long	126
*	<i>Solenostoma gongshanense</i> (C.Gao et J.Sun) Váňa et D.G.Long.....	126
***	<i>Solenostoma gracillimum</i> (Sm.) R.M.Schust.....	124
***	<i>Solenostoma grolliei</i> (D.G.Long et Váňa) K.Feldberg, Hentschel, Bombosch, D.G.Long, Váňa et Heinrichs.....	131
***	<i>Solenostoma grosseverrucosum</i> (Amakawa et S.Hatt.) Váňa, Crand.-Stotl. et Stotler.....	131
***	<i>Solenostoma handelii</i> (Schiffn.) Müll.Frib.	124
***	<i>Solenostoma haskarlianum</i> (Nees) R.M.Schust. ex Váňa et D.G.Long.....	126
***	<i>Solenostoma hattorianum</i> (Amakawa) Potemkin et Nyushko.....	126
***	<i>Solenostoma heterolimbatum</i> (Amakawa) Váňa et D.G.Long.....	131
***	<i>Solenostoma hewsoniae</i> (Amakawa et Grolle) R.M.Schust. ex Váňa, Hentschel et Heinrichs	131
***	<i>Solenostoma hirticalyx</i> (Steph.) R.M.Schust. ex Váňa, Hentschel et Heinrichs	126
***	<i>Solenostoma hiugaense</i> Amakawa.....	131
***	<i>Solenostoma hokkaidense</i> (Váňa) Váňa, Hentschel et Heinrichs.....	124
***	<i>Solenostoma horikawanum</i> (Amakawa) Váňa, Hentschel et Heinrichs.....	126
***	<i>Solenostoma hyalinum</i> (Lyell) Mitt.....	126
***	<i>Solenostoma indrodayanum</i> (Sushil K.Singh et D.K.Singh) Váňa et D.G.Long.....	131
***	<i>Solenostoma infusum</i> (Mitt.) Hentschel.....	126
***	<i>Solenostoma infusum</i> var. <i>ovicalyx</i> (Steph.) Potemkin et Sofronova	126
***	<i>Solenostoma inundatum</i> (Hook.f. et Taylor) Mitt. ex Steph.	131
***	<i>Solenostoma javanicum</i> (Schiffn.) Steph.	131
**	<i>Solenostoma kanaii</i> (Amakawa) Váňa et D.G.Long.....	131
***	<i>Solenostoma kashyapii</i> (S.C.Srivast., S.Srivast. et D.Sharma) Váňa et D.G.Long.....	131
**	<i>Solenostoma kurilense</i> (Bakalin) Váňa.....	126
***	<i>Solenostoma lanigerum</i> (Mitt.) Váňa et D.G.Long	132
**	<i>Solenostoma lignicola</i> (Schiffn.) Váňa, Hentschel et Heinrichs	124
***	<i>Solenostoma limbatifolium</i> (Amakawa) Váňa et D.G.Long.....	124
*	<i>Solenostoma lixingjiangii</i> (C.Gao et X.L.Bai) Váňa et D.G.Long.....	126
***	<i>Solenostoma macrocarpum</i> (Schiffn. ex Steph.) Váňa et D.G.Long.....	132
***	<i>Solenostoma mamatkulovii</i> (Váňa et Zerot) Váňa, Hentschel et Heinrichs.....	132
***	<i>Solenostoma marginatum</i> (S.Hatt.) R.M.Schust.	126
***	<i>Solenostoma micranthum</i> (Mitt.) Váňa, Hentschel et Heinrichs.....	127
*	<i>Solenostoma microphyllum</i> C.Gao	132
*	<i>Solenostoma microrevolutum</i> (C.Gao et X.L.Bai) Váňa et D.G.Long.....	132
***	<i>Solenostoma mildbraedii</i> (Steph.) R.M.Schust.....	132
**	<i>Solenostoma montanum</i> (Steph.) Váňa	127
*	<i>Solenostoma multicarpum</i> (C.Gao et J.Sun) Váňa et D.G.Long	132
**	<i>Solenostoma nilgiriense</i> (A.Alam, Ad.Kumar et S.C.Srivast.) Váňa et D.G.Long.....	127
***	<i>Solenostoma niveum</i> (Grolle) R.M.Schust. ex Váňa, Hentschel et Heinrichs	132
*	<i>Solenostoma novazelandiae</i> R.M.Schust.....	132

***	<i>Solenostoma obliquifolium</i> (Schiffn.) R.M.Schust. ex Váňa, Hentschel et Heinrichs.....	127
***	<i>Solenostoma obovatum</i> (Nees) C.Massal.....	124
***	<i>Solenostoma obscurum</i> (A.Evans) R.M.Schust.	124
***	<i>Solenostoma ohbae</i> (Amakawa) C.Gao	132
***	<i>Solenostoma onraedtii</i> (Váňa) Váňa, Hentschel et Heinrichs	127
*	<i>Solenostoma orbicularifolium</i> (Piippo ex C.Gao et Bai) Váňa	127
***	<i>Solenostoma orbiculatum</i> (Colenso) R.M.Schust.	132
***	<i>Solenostoma otianum</i> (S.Hatt.) R.M.Schust.	127
***	<i>Solenostoma ovalifolium</i> (Amakawa) Váňa	127
***	<i>Solenostoma paroicum</i> (Schiffn.) R.M.Schust.	127
***	<i>Solenostoma parvtextum</i> (Amakawa) Váňa et D.G.Long	132
***	<i>Solenostoma patoniae</i> (Grolle, D.B.Schill et D.G.Long) K.Feldberg, Hentschel, Bombosch, D.G.Long, Váňa et Heinrichs.....	132
**	<i>Solenostoma philippinense</i> Váňa.....	124
***	<i>Solenostoma plagiophilaceum</i> (Grolle) Váňa et D.G.Long.....	127
***	<i>Solenostoma pocsii</i> (Váňa) Bakalin.....	132
***	<i>Solenostoma poeltii</i> (Amakawa) Váňa et D.G.Long.....	133
***	<i>Solenostoma polyrhizoides</i> (Grolle ex Amakawa) Váňa et D.G.Long	127
***	<i>Solenostoma pseudocyclops</i> (Inoue) Váňa et D.G.Long.....	133
**	<i>Solenostoma pseudopyriflorum</i> Bakalin et Vilnet.....	133
***	<i>Solenostoma purpuratum</i> (Mitt.) Steph.	133
***	<i>Solenostoma pyriflorum</i> Steph.....	133
***	<i>Solenostoma pyriflorum</i> var. <i>gracillimum</i> (Amakawa) Váňa et D.G.Long.....	133
**	<i>Solenostoma pyriflorum</i> var. <i>major</i> (S.Hatt.) Bakalin.....	133
***	<i>Solenostoma pyriflorum</i> var. <i>minutissimum</i> (Amakawa) Bakalin	133
***	<i>Solenostoma radiculosum</i> Mitt.	127
***	<i>Solenostoma raujezanum</i> (Grolle ex Amakawa) Váňa et D.G.Long.....	133
***	<i>Solenostoma renauldii</i> (Steph.) Váňa, Hentschel et Heinrichs	127
***	<i>Solenostoma riclefii</i> Váňa et D.G.Long.....	133
***	<i>Solenostoma rigidulum</i> (S.Hatt.) R.M.Schust.	127
***	<i>Solenostoma rosulans</i> (Steph.) Váňa et D.G.Long.....	127
***	<i>Solenostoma rotundatum</i> Amakawa.....	127
***	<i>Solenostoma rubripunctatum</i> (S.Hatt.) R.M.Schust.	127
***	<i>Solenostoma rubrum</i> (Gottsche) R.M.Schust.....	125
*	<i>Solenostoma rupicola</i> (Amakawa) Váňa et D.G.Long	133
***	<i>Solenostoma sanguinolentum</i> (Griff.) Steph.....	133
***	<i>Solenostoma schaulianum</i> (Steph.) Váňa et D.G.Long.....	133
***	<i>Solenostoma schusteranum</i> (J.D.Godfrey et G.Godfrey) Váňa, Hentschel et Heinrichs.....	124
***	<i>Solenostoma shimizuanum</i> (S.Hatt. ex Váňa) Váňa, Hentschel et Heinrichs.....	133
***	<i>Solenostoma sikkimense</i> (Schiffn. ex Steph.) Váňa et D.G.Long.....	127
***	<i>Solenostoma speciosum</i> (Horik.) Hentschel, K.Feldberg, Bombosch, D.G.Long, Váňa et Heinrichs....	133
**	<i>Solenostoma speciosum</i> subsp. <i>villosum</i> (R.M.Schust.) Hentschel, K.Feldberg, Bombosch, D.G.Long, Váňa et Heinrichs	134
***	<i>Solenostoma sphaerocarpum</i> (Hook.) Steph.	134
***	<i>Solenostoma stephanii</i> (Schiffn.) Steph.	134
***	<i>Solenostoma stoloniferum</i> (Steph.) S.W.Arnell.....	134
***	<i>Solenostoma strictum</i> (Schiffn.) Váňa, Hentschel et Heinrichs.....	134
***	<i>Solenostoma subacutum</i> (Herzog) Váňa, Crand.-Stotl. et Stotler	134
***	<i>Solenostoma suborbiculatum</i> (Amakawa) Váňa et D.G.Long	125
***	<i>Solenostoma subrubrum</i> (Schiffn. ex Steph.) Váňa et D.G.Long.....	134
***	<i>Solenostoma subtilissimum</i> (Schiffn.) R.M.Schust.....	124
*	<i>Solenostoma sunii</i> Bakalin et Vilnet.....	134

***	<i>Solenostoma tetragonum</i> (Lindenb.) R.M.Schust. ex Vána et D.G.Long.....	127
*	<i>Solenostoma tetragonum</i> var. <i>kodaikanalense</i> A.Alam, D.Sharma et So.Yadav.....	127
***	<i>Solenostoma torticalyx</i> (Steph.) C.Gao.....	134
*	<i>Solenostoma totopapillosum</i> (E.A.Hodgs.) R.M.Schust.	134
***	<i>Solenostoma truncatum</i> (Nees) R.M.Schust. ex Vána et D.G.Long.....	134
**	<i>Solenostoma truncatum</i> var. <i>setulosum</i> (Herzog) Vána et D.G.Long.....	134
***	<i>Solenostoma tuberculiferum</i> (Herzog) Vána, Hentschel et Heinrichs.....	127
***	<i>Solenostoma udarii</i> (S.C.Srivast. et P.Singh) Vána et D.G.Long.....	134
***	<i>Solenostoma unispire</i> (Amakawa) Vána, Hentschel et Heinrichs.....	127
*	<i>Solenostoma ventroversum</i> (Grolle) Vána et D.G.Long.....	134
***	<i>Solenostoma virgatum</i> (Mitt.) Vána et D.G.Long.....	127
***	<i>Solenostoma vulcanicola</i> (Schiffn.) Nyushko ex Potemkin et Sofronova.....	127
*	<i>Solenostoma zangmuui</i> (C.Gao et X.L.Bai) Vána et D.G.Long.....	127
***	<i>Solenostoma zantenii</i> (Amakawa) R.M.Schust. ex Vána et D.G.Long.....	134
*	<i>Solenostoma zengii</i> (C.Gao et X.L.Bai) Vána et D.G.Long.....	134
***	<i>Southbya gollanii</i> Steph.	135
***	<i>Southbya nigrella</i> (De Not.) Henriq.	135
***	<i>Southbya organensis</i> Herzog.....	136
***	<i>Southbya tophacea</i> (Spruce) Spruce.....	136
***	<i>Sphaerocarpos cristatus</i> M.Howe.....	506
***	<i>Sphaerocarpos donnellii</i> Austin.....	506
***	<i>Sphaerocarpos drewiae</i> Wigglesw.....	506
***	<i>Sphaerocarpos europaeus</i> Lorb.	507
***	<i>Sphaerocarpos hians</i> Haynes.....	507
***	<i>Sphaerocarpos michelii</i> Bellardi.....	506
**	<i>Sphaerocarpos mucilloi</i> E.Vianna.....	507
***	<i>Sphaerocarpos stipitatus</i> Bisch. ex Lindenb.	506
**	<i>Sphaerocarpos texanus</i> Austin.....	506
***	<i>Sphenolobopsis pearsonii</i> (Spruce) R.M.Schust.....	55
***	<i>Sphenolobus austroamericanus</i> (Vána) Vána.....	55
***	<i>Sphenolobus minutus</i> (Schreb. ex D.Crantz) Berggr.	55
***	<i>Sphenolobus saxicola</i> (Schrad.) Steph.....	55
***	<i>Spruceanthus macrostipulus</i> (Steph.) Gradst.	412
**	<i>Spruceanthus mamillilobulus</i> (Herzog) Verd.....	412
***	<i>Spruceanthus pluriplicatus</i> (Steph.) Gradst.	412
***	<i>Spruceanthus polymorphus</i> (Sande Lac.) Verd.	412
***	<i>Spruceanthus semirepandus</i> (Nees) Verd.	412
***	<i>Spruceanthus sulcatus</i> (Nees) Gradst.	413
***	<i>Spruceanthus theobromae</i> (Spruce) Gradst.	413
***	<i>Spruceanthus thozetianus</i> (Gottsche et F.Muell.) B.M.Thiers et Gradst.	413
***	<i>Steereella lilliana</i> (Steph.) Kuwah.	461
***	<i>Steereella linearis</i> (Sw.) Kuwah.	461
*	<i>Stephaniella boliviensis</i> Steph.	136
***	<i>Stephaniella hamata</i> Steph.....	136
***	<i>Stephaniella paraphyllina</i> J.B.Jack.....	136
***	<i>Stephaniella rostrata</i> U.Schmitt.....	136
***	<i>Stephaniella uncifolia</i> S.Winkl.	136
***	<i>Stephaniellidium sleumeri</i> (Müll.Frib.) S.Winkl. ex Grolle.....	136
***	<i>Stephensiella brevipedunculata</i> Kashyap.....	488
***	<i>Stictolejeunea balfourii</i> (Mitt.) E.W.Jones.....	300
***	<i>Stictolejeunea balfourii</i> var. <i>bekkeri</i> Gradst.	300
***	<i>Stictolejeunea iwatsukii</i> Mizut.....	300

***	<i>Stictolejeunea squamata</i> (Willd.) Schiffn.....	300
**	<i>Stolonivector clasmatocoleoides</i> J.J.Engel	127
***	<i>Stolonivector fiordlandiae</i> (E.A.Hodgs.) J.J.Engel	127
**	<i>Stolonivector fiordlandiae</i> var. <i>nodulosus</i> J.J.Engel.....	127
***	<i>Stolonivector gremmenii</i> (Váňa) Váňa.....	127
**	<i>Stolonivector obtusilobus</i> J.J.Engel	127
**	<i>Stolonivector waipouensis</i> J.J.Engel.....	127
*	<i>Strepsilejeunea apollinea</i> (Gottsche) Steph.....	512
*	<i>Strepsilejeunea durelii</i> Schiffn.....	512
*	<i>Strepsilejeunea hamatifolia</i> Steph.	512
*	<i>Strepsilejeunea lanceolata</i> (Gottsche) Steph.	512
*	<i>Strepsilejeunea muscicola</i> Herzog.....	512
*	<i>Strepsilejeunea novae-guineae</i> Steph.....	512
*	<i>Strepsilejeunea obtusistipula</i> Steph.....	512
*	<i>Strepsilejeunea papulifolia</i> Steph.	512
*	<i>Strepsilejeunea pectiniformis</i> (Gottsche) Steph.	512
*	<i>Strepsilejeunea renistipula</i> Steph.....	512
*	<i>Strepsilejeunea vatovae</i> Gerola.....	512
***	<i>Symbiezidium barbiflorum</i> (Lindenb. et Gottsche) A.Evans	398
***	<i>Symbiezidium dentatum</i> Herzog	398
***	<i>Symbiezidium madagascariense</i> Steph.....	398
***	<i>Symbiezidium transversale</i> (Sw.) Trevis.	398
***	<i>Symbiezidium transversale</i> var. <i>hookerianum</i> (Gottsche, Lindenb. et Nees) Gradst. et J.Beek	398
***	<i>Symphyogyna apiculispina</i> Steph.	471
***	<i>Symphyogyna aspera</i> Steph. ex F.A.McCormick	471
**	<i>Symphyogyna atronervia</i> Taylor.....	471
**	<i>Symphyogyna bogotensis</i> Steph.	471
*	<i>Symphyogyna boliviensis</i> Steph.	471
***	<i>Symphyogyna brasiliensis</i> Nees et Mont.	471
**	<i>Symphyogyna brasiliensis</i> var. <i>angustior</i> (Gottsche, Lindenb. et Nees) Gottsche	471
**	<i>Symphyogyna brasiliensis</i> var. <i>subsINUATA</i> Schiffn.	472
***	<i>Symphyogyna brongniartii</i> Mont.	472
***	<i>Symphyogyna circinata</i> Nees et Mont.	472
***	<i>Symphyogyna digitisquama</i> Steph.	472
**	<i>Symphyogyna fuscovirens</i> A.Evans.....	472
***	<i>Symphyogyna hochstetteri</i> Nees et Mont.	472
***	<i>Symphyogyna hymenophyllum</i> (Hook.) Nees et Mont.	472
**	<i>Symphyogyna hymenophyllum</i> var. <i>heterogenum</i> Spruce	472
**	<i>Symphyogyna ignambiensis</i> Hürl.....	472
**	<i>Symphyogyna interrupta</i> Carrington et Pearson	472
**	<i>Symphyogyna irregularis</i> Steph.	472
**	<i>Symphyogyna lacerosquama</i> Steph.	472
***	<i>Symphyogyna leptothelia</i> Taylor.....	472
**	<i>Symphyogyna lindmanii</i> A.Evans.....	472
***	<i>Symphyogyna luetzelburgii</i> Herzog	472
***	<i>Symphyogyna marginata</i> Steph.	472
***	<i>Symphyogyna mexicana</i> Steph.	472
**	<i>Symphyogyna multiflora</i> Steph.	472
*	<i>Symphyogyna paucidens</i> Steph.	472
***	<i>Symphyogyna podophylla</i> (Thunb.) Nees et Mont.	472
*	<i>Symphyogyna purpureolimbata</i> E.A.Hodgs.	473
***	<i>Symphyogyna rectidens</i> Grolle.....	473

**	<i>Symphyogyna rhodina</i> (Hook.f. et Taylor) Gottsche, Lindenb. et Nees	473
***	<i>Symphyogyna rubescens</i> Steph.....	473
***	<i>Symphyogyna rubritincta</i> A.Evans	473
**	<i>Symphyogyna semi-involucrata</i> Austin	473
**	<i>Symphyogyna similis</i> Grolle	473
***	<i>Symphyogyna sinuata</i> (Sw.) Nees et Mont.....	473
***	<i>Symphyogyna subsimplex</i> Mitt.	473
***	<i>Symphyogyna tenuinervis</i> (Hook.f. et Taylor) Grolle	473
***	<i>Symphyogyna trivittata</i> Spruce	473
*	<i>Symphyogyna ulvoides</i> (Reinw., Blume et Nees) Nees.....	473
***	<i>Symphyogyna undulata</i> Colenso.....	473
**	<i>Symphyogyna volkensis</i> Steph.....	473
***	<i>Symphyogynopsis gottscheana</i> (Mont. et Nees) Grolle	473
***	<i>Syzygiella acinacifolia</i> (Hook.f. et Taylor) K.Feldberg, Váňa, Hentschel et Heinrichs.....	47
***	<i>Syzygiella anomala</i> (Lindenb. et Gottsche) Steph.....	47
***	<i>Syzygiella autumnalis</i> (DC.) K.Feldberg, Váňa, Hentschel et Heinrichs.....	48
***	<i>Syzygiella bilobata</i> Inoue.....	47
***	<i>Syzygiella campanulata</i> Herzog	48
**	<i>Syzygiella ciliata</i> Gradst. et A.R.Benitez.....	47
***	<i>Syzygiella colorata</i> (Lehm.) K.Feldberg, Váňa, Hentschel et Heinrichs.....	48
**	<i>Syzygiella colorata</i> var. <i>collenchymata</i> J.J.Engel et Váňa	48
***	<i>Syzygiella concreta</i> (Gottsche) Spruce.....	47
***	<i>Syzygiella contigua</i> Steph.	48
***	<i>Syzygiella eatonii</i> (Austin) Inoue.....	49
***	<i>Syzygiella elongella</i> (Taylor) K.Feldberg, Váňa, Hentschel et Heinrichs	48
***	<i>Syzygiella jacquinotii</i> (Mont.) Hentschel, K.Feldberg, Váňa et Heinrichs	48
***	<i>Syzygiella macrocalyx</i> (Mont.) Spruce	48
***	<i>Syzygiella manca</i> (Mont.) Steph.....	47
***	<i>Syzygiella nigrescens</i> (Steph.) K.Feldberg, Váňa, Hentschel et Heinrichs	47
***	<i>Syzygiella nipponica</i> (S.Hatt.) K.Feldberg, Váňa, Hentschel et Heinrichs	48
**	<i>Syzygiella oenops</i> (Lindenb. et Gottsche) K.Feldberg, Váňa, Hentschel et Heinrichs	49
***	<i>Syzygiella ovalifolia</i> Inoue	47
***	<i>Syzygiella paludosa</i> (Steph.) K.Feldberg, Váňa, Hentschel et Heinrichs.....	47
***	<i>Syzygiella pectiniformis</i> Spruce	47
***	<i>Syzygiella perfoliata</i> (Sw.) Spruce.....	49
***	<i>Syzygiella pseudoclosa</i> (E.A.Hodgs.) K.Feldberg, Váňa, Hentschel et Heinrichs	47
***	<i>Syzygiella purpurascens</i> (Steph.) K.Feldberg, Váňa, Hentschel et Heinrichs.....	49
***	<i>Syzygiella rubricaulis</i> (Nees) Steph.....	49
*	<i>Syzygiella securifolia</i> (Nees) Inoue.....	48
***	<i>Syzygiella setulosa</i> Steph.....	49
***	<i>Syzygiella sonderi</i> (Gottsche) K.Feldberg, Váňa, Hentschel et Heinrichs.....	47
***	<i>Syzygiella spagazziniana</i> (Spruce ex C.Massal.) K.Feldberg, Váňa, Hentschel et Heinrichs.....	47
***	<i>Syzygiella subintegerrima</i> (Reinw., Blume et Nees) Spruce	48
***	<i>Syzygiella tasmanica</i> (Hook.f. et Taylor) K.Feldberg, Váňa, Hentschel et Heinrichs	48
***	<i>Syzygiella teres</i> (Carrington et Pearson) Váňa.....	49
***	<i>Syzygiella tonduzana</i> Steph.	47
***	<i>Syzygiella trigonifolia</i> (Steph.) Herzog.....	47
***	<i>Syzygiella uleana</i> Steph.	49
***	<i>Syzygiella undata</i> (Mont.) K.Feldberg, Váňa, Hentschel et Heinrichs.....	49
*	<i>Targionia dioica</i> Schiffn.	503
*	<i>Targionia elongata</i> Bisch.....	503
*	<i>Targionia fiorii</i> Gola	503

* <i>Targionia formosica</i> Horik.....	503
*** <i>Targionia hypophylla</i> L.	503
** <i>Targionia hypophylla</i> subsp. <i>linealis</i> W.Frey et Kürschner.....	503
* <i>Targionia indica</i> Udar et A.Gupta.....	503
** <i>Targionia lorbeeriana</i> Müll.Frib.	503
** <i>Targionia stellaris</i> (Müll.Frib.) Hässel.....	503
** <i>Taxilejeunea acutifolia</i> (Steph.) Steph.....	388
** <i>Taxilejeunea antillana</i> Steph.....	388
** <i>Taxilejeunea apiculata</i> (Gottsche) J.B.Jack et Steph.....	388
** <i>Taxilejeunea argentina</i> Steph.	388
** <i>Taxilejeunea arsenii</i> Steph.	388
** <i>Taxilejeunea auriculata</i> Steph.....	388
** <i>Taxilejeunea berteriana</i> Steph.	388
** <i>Taxilejeunea beyrichiana</i> Steph.	388
** <i>Taxilejeunea biapiculata</i> Steph.	388
* <i>Taxilejeunea boliviana</i> Steph.	388
** <i>Taxilejeunea brasiliensis</i> Steph.	388
** <i>Taxilejeunea coilantha</i> Herzog.....	388
* <i>Taxilejeunea compressiuscula</i> Steph.	389
* <i>Taxilejeunea convoluta</i> Herzog	389
* <i>Taxilejeunea cuervi</i> (Gottsche) Steph.....	389
* <i>Taxilejeunea cuneistipula</i> Steph.	389
* <i>Taxilejeunea cuspidata</i> Steph.	389
** <i>Taxilejeunea decurrens</i> Steph.	389
** <i>Taxilejeunea deflexa</i> Steph.	389
** <i>Taxilejeunea densiflora</i> A.Evans	389
** <i>Taxilejeunea diaphana</i> (Lehm.) Steph.	389
* <i>Taxilejeunea dissitifolia</i> Steph.	389
** <i>Taxilejeunea eggersiana</i> Schiffn.	389
* <i>Taxilejeunea elobulata</i> Sim	389
** <i>Taxilejeunea fissistipula</i> Steph.	389
** <i>Taxilejeunea foliicola</i> Steph.	389
** <i>Taxilejeunea furcicornuta</i> Grolle.....	389
** <i>Taxilejeunea fusciorufa</i> Steph.....	389
** <i>Taxilejeunea galapagensis</i> Onr.....	389
* <i>Taxilejeunea ghatensis</i> P.K.Verma et S.C.Srivast.	389
* <i>Taxilejeunea giulianettii</i> Steph.....	389
** <i>Taxilejeunea gomphocalyx</i> Herzog.....	389
* <i>Taxilejeunea grandifolia</i> Steph.....	389
* <i>Taxilejeunea grandistipula</i> Steph.....	389
* <i>Taxilejeunea hamatifolia</i> Steph.....	389
** <i>Taxilejeunea himalayensis</i> Herzog.....	389
* <i>Taxilejeunea immersa</i> Eifrig.....	389
** <i>Taxilejeunea irregularis</i> Steph.	389
** <i>Taxilejeunea jamaicensis</i> A.Evans.....	389
** <i>Taxilejeunea jeringii</i> Steph.	389
** <i>Taxilejeunea killipii</i> Herzog.....	389
* <i>Taxilejeunea laevis</i> (Gottsche) Steph.....	340
* <i>Taxilejeunea langiana</i> Pearson.....	340
** <i>Taxilejeunea lindbergiana</i> Steph.	340
** <i>Taxilejeunea linguifolia</i> Steph.....	340
* <i>Taxilejeunea maxima</i> Steph.....	340

**	<i>Taxilejeunea mexicana</i> Steph.	340
*	<i>Taxilejeunea microstipula</i> Steph.	340
*	<i>Taxilejeunea mucronata</i> Steph.	340
**	<i>Taxilejeunea multiflora</i> Steph.	340
*	<i>Taxilejeunea muscicola</i> Steph.	340
*	<i>Taxilejeunea nilgiriensis</i> P.K.Verma et S.C.Srivast.	340
**	<i>Taxilejeunea nymannii</i> Steph.	340
**	<i>Taxilejeunea obtusifolia</i> Steph.	340
**	<i>Taxilejeunea papuliflora</i> Steph.	340
**	<i>Taxilejeunea parvibracteata</i> Steph.	340
**	<i>Taxilejeunea parvistipula</i> Steph.	340
*	<i>Taxilejeunea paucidens</i> Steph.	340
*	<i>Taxilejeunea pendula</i> Steph.	340
*	<i>Taxilejeunea peruviana</i> Steph.	340
**	<i>Taxilejeunea planilobula</i> Herzog.	340
**	<i>Taxilejeunea pulchriflora</i> Pearson.	340
*	<i>Taxilejeunea pusilla</i> Steph.	340
**	<i>Taxilejeunea renistipula</i> (Lindenb.) Steph.	340
*	<i>Taxilejeunea rufescens</i> Steph.	340
***	<i>Taxilejeunea serpillifolioides</i> (Raddi) D.P.Costa	340
**	<i>Taxilejeunea setchellii</i> Pearson	340
**	<i>Taxilejeunea speciosa</i> Herzog	340
*	<i>Taxilejeunea splendida</i> Eifrig	340
**	<i>Taxilejeunea stephanii</i> Eifrig	340
**	<i>Taxilejeunea steyermarkii</i> H.Rob.	340
**	<i>Taxilejeunea surinamensis</i> (Lindenb. et Gottsche) Steph.	340
*	<i>Taxilejeunea suringarii</i> Steph.	341
**	<i>Taxilejeunea tenerrima</i> Steph.	341
**	<i>Taxilejeunea tenuiplica</i> Steph.	341
*	<i>Taxilejeunea tjobodensis</i> (Steph.) Eifrig.	341
**	<i>Taxilejeunea tonduzana</i> Steph.	341
*	<i>Taxilejeunea uleana</i> Steph.	341
*	<i>Taxilejeunea umbonata</i> Steph.	341
*	<i>Taxilejeunea urbanii</i> Steph.	341
**	<i>Taxilejeunea vallis-gratiae</i> Steph.	341
***	<i>Telaranea anomala</i> R.M.Schust. ex J.J.Engel et G.L.Merr.	186
***	<i>Telaranea apiahyna</i> (Steph.) Fulford	185
**	<i>Telaranea azorica</i> (H.Buch et Pers.) Pócs	187
***	<i>Telaranea bicruris</i> (Steph.) M.Howe	185
**	<i>Telaranea bischleriana</i> Pócs	186
***	<i>Telaranea blepharostoma</i> (Steph.) Fulford	185
***	<i>Telaranea breviseta</i> (Herzog) J.J.Engel et G.L.Merr.	185
***	<i>Telaranea chaetophylla</i> (Spruce) Schiffn.	185
***	<i>Telaranea coactilis</i> (Spruce) J.J.Engel et G.L.Merr.	186
***	<i>Telaranea confervoides</i> J.J.Engel et G.L.Merr.	186
***	<i>Telaranea diacantha</i> (Mont.) J.J.Engel et G.L.Merr.	186
***	<i>Telaranea europaea</i> J.J.Engel et G.L.Merr.	185
***	<i>Telaranea fragilis</i> Mizut.	186
***	<i>Telaranea granulata</i> J.J.Engel et G.L.Merr.	186
***	<i>Telaranea herzogii</i> (E.A.Hodgs.) E.A.Hodgs.	186
***	<i>Telaranea inaequalis</i> R.M.Schust. ex J.J.Engel et G.L.Merr.	187
**	<i>Telaranea indica</i> (S.C.Srivast. et P.K.Verma) A.E.D.Daniels et P.Daniel	187

***	<i>Telaranea longifolia</i> (M.Howe) J.J.Engel et G.L.Merr.	186
**	<i>Telaranea major</i> (Herzog) J.J.Engel et G.L.Merr.	187
**	<i>Telaranea maorensis</i> Pócs.....	187
***	<i>Telaranea microstipulata</i> R.M.Schust.	187
***	<i>Telaranea monocera</i> (Mitt. ex R.M.Schust. et Grolle) J.J.Engel et G.L.Merr.	187
***	<i>Telaranea nematodes</i> (Gottsche ex Austin) M.Howe.....	186
***	<i>Telaranea panchoi</i> Del Ros.....	186
***	<i>Telaranea pecten</i> (Spruce) J.J.Engel et G.L.Merr.	187
***	<i>Telaranea pellucida</i> J.J.Engel et G.L.Merr.	186
***	<i>Telaranea pseudozoopsis</i> (Herzog) Fulford.....	186
***	<i>Telaranea redacta</i> (Steph.) J.J.Engel et G.L.Merr.	186
***	<i>Telaranea rosarioana</i> H.A.Mill.	186
***	<i>Telaranea sejuncta</i> (Ångstr.) S.W.Arnell	187
***	<i>Telaranea setosa</i> J.J.Engel et G.L.Merr.....	186
***	<i>Telaranea tenuifolia</i> J.J.Engel et G.L.Merr.	187
***	<i>Telaranea trisetosa</i> (Steph.) Grolle.....	186
***	<i>Temnoma angustifolium</i> R.M.Schust.	255
***	<i>Temnoma chaetophyllum</i> R.M.Schust.	255
**	<i>Temnoma palmatum</i> (Lindb. ex Pearson) R.M.Schust.....	255
**	<i>Temnoma palmatum</i> var. <i>cuneatum</i> R.M.Schust.	255
**	<i>Temnoma palmatum</i> var. <i>laxifolium</i> R.M.Schust.	255
**	<i>Temnoma palmatum</i> var. <i>pseudospiniferum</i> R.M.Schust.	255
**	<i>Temnoma patagonicum</i> R.M.Schust.	255
***	<i>Temnoma paucisetigerum</i> R.M.Schust.....	255
***	<i>Temnoma pilosum</i> (A.Evans) R.M.Schust.....	255
***	<i>Temnoma pulchellum</i> (Hook.) Mitt.	255
***	<i>Temnoma quadrifidum</i> (Mitt.) Mitt. ex E.A.Hodgs. et Allison.....	255
***	<i>Temnoma quadripartitum</i> (Hook.) Mitt.	255
**	<i>Temnoma quadripartitum</i> var. <i>pseudopungens</i> R.M.Schust.	255
**	<i>Temnoma quadripartitum</i> var. <i>randii</i> (S.W.Arnell) R.M.Schust.	256
***	<i>Temnoma setigerum</i> (Lindenb.) R.M.Schust.	256
**	<i>Temnoma setigerum</i> var. <i>hawaiicum</i> Inoue.....	256
**	<i>Temnoma townrowii</i> R.M.Schust.	256
**	<i>Tetracymbaliella comptonii</i> (Pearson) Grolle.....	137
***	<i>Tetracymbaliella cymbalifera</i> (Hook.f. et Taylor) Grolle.....	137
***	<i>Tetracymbaliella decipiens</i> (Gottsche) Grolle.....	138
***	<i>Tetracymbaliella subsimplex</i> (Austin) J.J.Engel.....	138
***	<i>Tetralophozia cavallii</i> (Gola) Váňa.....	55
***	<i>Tetralophozia filiformis</i> (Steph.) Urmi.....	55
**	<i>Tetralophozia pilifera</i> (Steph.) R.M.Schust.....	55
***	<i>Tetralophozia setiformis</i> (Ehrh.) Schljakov.....	55
***	<i>Thysananthus aculeatus</i> Herzog.....	413
***	<i>Thysananthus amazonicus</i> (Spruce) Schiffn.....	413
***	<i>Thysananthus anguiformis</i> (Hook.f. et Taylor) Gottsche, Lindenb. et Nees.....	413
***	<i>Thysananthus appendiculatus</i> Steph.....	413
**	<i>Thysananthus ciliaris</i> (Sande Lac.) Sukkharak.....	413
***	<i>Thysananthus comosus</i> Lindenb.	413
***	<i>Thysananthus convolutus</i> Lindenb.	413
**	<i>Thysananthus convolutus</i> var. <i>laceratus</i> (Steph.) Sukkharak.....	413
***	<i>Thysananthus discretus</i> Sukkharak et Gradst.....	413
***	<i>Thysananthus fruticosus</i> (Lindenb. et Gottsche) Schiffn.....	414
***	<i>Thysananthus gottschei</i> (J.B.Jack et Steph.) Steph.	413

**	<i>Thysananthus gottschei</i> var. <i>continuus</i> Sukkharak	413
***	<i>Thysananthus mollis</i> Steph.	414
***	<i>Thysananthus montanus</i> Gradst., Xiao L.He et Piippo.....	414
***	<i>Thysananthus pancheri</i> (Steph.) Hürl.	413
***	<i>Thysananthus retusus</i> (Reinw., Blume et Nees) B.M.Thiers et Gradst.	414
**	<i>Thysananthus retusus</i> subsp. <i>sellingii</i> (Herzog) Sukkharak.....	414
***	<i>Thysananthus spathulistipus</i> (Reinw., Blume et Nees) Lindenb.	414
*	<i>Thysanolejeunea africana</i> Sim.....	512
***	<i>Trabacellula tumidula</i> Fulford.....	64
*	<i>Trachylejeunea conifera</i> Steph.	512
*	<i>Trachylejeunea cristuliflora</i> Steph.	512
*	<i>Trachylejeunea englishii</i> Steph.....	512
*	<i>Trachylejeunea jamaicensis</i> Pearson	512
*	<i>Trachylejeunea kusaiensis</i> Inoue et H.A.Mill.	512
***	<i>Treubia insignis</i> K.I.Goebel.....	43
**	<i>Treubia insignis</i> subsp. <i>bracteata</i> (Steph.) R.M.Schust. et G.A.M.Scott	43
**	<i>Treubia insignis</i> subsp. <i>caledonica</i> R.M.Schust. et G.A.M.Scott.....	43
**	<i>Treubia insignis</i> subsp. <i>vitiensis</i> R.M.Schust. et G.A.M.Scott	43
**	<i>Treubia lacunosoides</i> T.Pfeiff., W.Frey et M.Stech.....	43
***	<i>Treubia lacunosa</i> (Colenso) Prosk.....	43
***	<i>Treubia pygmaea</i> R.M.Schust.	43
***	<i>Treubia scapanioides</i> R.M.Schust.....	43
***	<i>Treubia tahitensis</i> (Nadeaud) Besch.....	43
***	<i>Treubia tasmanica</i> R.M.Schust. et G.A.M.Scott.....	43
***	<i>Triandrophyllum eophyllum</i> (R.M.Schust.) Gradst.....	141
**	<i>Triandrophyllum fernandeziense</i> (S.W.Arnell) Grolle ex Fulford et Hatcher.....	141
**	<i>Triandrophyllum heterophyllum</i> (Steph.) Grolle	141
***	<i>Triandrophyllum subtrifidum</i> (Hook.f. et Taylor) Fulford et Hatcher	141
**	<i>Triandrophyllum subtrifidum</i> var. <i>trifidum</i> (Gottsche) Solari.....	141
**	<i>Triandrophyllum symmetricum</i> J.J.Engel	141
**	<i>Trichocolea argentea</i> Herzog	257
***	<i>Trichocolea brevifissa</i> Steph.....	257
**	<i>Trichocolea comptonii</i> Pearson	257
***	<i>Trichocolea filicaulis</i> Steph.....	257
*	<i>Trichocolea floccosa</i> Herzog et Hatcher	257
**	<i>Trichocolea geniculata</i> Pearson	257
**	<i>Trichocolea gracillima</i> Austin.....	257
***	<i>Trichocolea hatcheri</i> E.A.Hodgs.....	257
***	<i>Trichocolea iriomotensis</i> T.Katag.....	257
***	<i>Trichocolea japonica</i> T.Katag.....	257
***	<i>Trichocolea magna</i> T.Katag.	257
**	<i>Trichocolea minutifolia</i> Steph.	257
***	<i>Trichocolea mollissima</i> (Hook.f. et Taylor) Gottsche.....	257
***	<i>Trichocolea pluma</i> (Reinw., Blume et Nees) Mont.....	258
***	<i>Trichocolea rigida</i> R.M.Schust.	258
***	<i>Trichocolea rudimentaris</i> Steph.	258
*	<i>Trichocolea sprucei</i> Steph.	258
***	<i>Trichocolea tomentella</i> (Ehrh.) Dumort.	258
**	<i>Trichocolea udarii</i> D.K.Singh.....	258
**	<i>Trichocolea watsiana</i> Steph.....	258
**	<i>Trichocoleopsis sacculata</i> (Mitt.) S.Okamura	434
***	<i>Tricholepidozia chaetocarpa</i> (Pearson) E.D.Cooper.....	179

***	<i>Tricholepidozia fernandezensis</i> (Steph.) E.D.Cooper	179
***	<i>Tricholepidozia ferruginea</i> (J.J.Engel et G.L.Merr.) E.D.Cooper	179
***	<i>Tricholepidozia fissifolia</i> (Steph.) E.D.Cooper	179
***	<i>Tricholepidozia jowettiana</i> (H.A.Mill.) E.D.Cooper	179
***	<i>Tricholepidozia kaindina</i> (Grolle) E.D.Cooper	179
***	<i>Tricholepidozia kogiana</i> (Steph.) E.D.Cooper	179
***	<i>Tricholepidozia lawesii</i> (Steph.) E.D.Cooper	179
***	<i>Tricholepidozia leratii</i> (Steph.) E.D.Cooper	180
***	<i>Tricholepidozia lindenbergii</i> (Gottsche) E.D.Cooper	180
***	<i>Tricholepidozia lindenbergii</i> var. <i>complanata</i> (J.J.Engel et G.L.Merr.) E.D.Cooper	180
***	<i>Tricholepidozia lindenbergii</i> var. <i>mellea</i> (J.J.Engel et G.L.Merr.) E.D.Cooper	180
***	<i>Tricholepidozia lindenbergii</i> var. <i>papillata</i> (J.J.Engel et G.L.Merr.) E.D.Cooper	180
***	<i>Tricholepidozia marginata</i> (J.J.Engel et G.L.Merr.) E.D.Cooper	180
***	<i>Tricholepidozia martinii</i> (E.A.Hodgs.) E.D.Cooper	180
***	<i>Tricholepidozia melanesica</i> (H.A.Mill.) E.D.Cooper	180
***	<i>Tricholepidozia neesii</i> (Lindenb.) E.D.Cooper	180
***	<i>Tricholepidozia octoloba</i> (Del Ros.) E.D.Cooper	180
***	<i>Tricholepidozia plumulosa</i> (Lehm. et Lindenb.) E.D.Cooper	180
***	<i>Tricholepidozia pulcherrima</i> (Steph.) E.D.Cooper	180
***	<i>Tricholepidozia pulcherrima</i> var. <i>mooreana</i> (Steph.) E.D.Cooper	180
***	<i>Tricholepidozia quadriseta</i> (Steph.) E.D.Cooper	181
***	<i>Tricholepidozia remotifolia</i> (E.A.Hodgs.) E.D.Cooper	181
***	<i>Tricholepidozia semperiana</i> (Steph.) E.D.Cooper	181
***	<i>Tricholepidozia tetradactyla</i> (Hook.f. et Taylor) E.D.Cooper	181
***	<i>Tricholepidozia trichocoleoides</i> (Herzog) E.D.Cooper	181
***	<i>Trichotemnoma corrugatum</i> (Steph.) R.M.Schust.	136
***	<i>Trilophozia quinquedentata</i> (Huds.) Bakalin	81
**	<i>Trilophozia quinquedentata</i> var. <i>asymmetrica</i> (Horik.) L.Söderstr. et Vána	82
***	<i>Tritomaria exsecta</i> (Schmidel) Schiffn. ex Loeske	82
**	<i>Tritomaria exsecta</i> subsp. <i>novaezelandiae</i> J.J.Engel	82
***	<i>Tritomaria exsectiformis</i> (Breidl.) Schiffn. ex Loeske	82
**	<i>Tritomaria exsectiformis</i> subsp. <i>arctica</i> R.M.Schust.	82
**	<i>Tritomaria exsectiformis</i> subsp. <i>camerunensis</i> S.W.Arnell ex Vána	82
***	<i>Tritomaria ferruginea</i> (Grolle) Vána	82
*	<i>Tritomaria koreana</i> Bakalin, S.S.Choi et B.Y.Sun	82
*	<i>Tritomaria mexicana</i> Bakalin	82
***	<i>Tritomaria scitula</i> (Taylor) Jørg.	82
**	<i>Tuyamaella angulistipa</i> (Steph.) R.M.Schust. et Kachroo	350
**	<i>Tuyamaella borneensis</i> Tixier	350
**	<i>Tuyamaella hattorii</i> Tixier	350
**	<i>Tuyamaella jackii</i> (Steph.) Tixier	350
***	<i>Tuyamaella molischii</i> (Schiffn.) S.Hatt.	350
**	<i>Tuyamaella molischii</i> var. <i>brevistipa</i> P.C.Wu et P.J.Lin	350
**	<i>Tuyamaella molischii</i> var. <i>taiwanensis</i> R.L.Zhu et M.L.So	350
**	<i>Tuyamaella serratistipa</i> S.Hatt.	350
***	<i>Tuzibeanthus chinensis</i> (Steph.) Mizut.	414
***	<i>Vanaea plagiochiloides</i> (Inoue et Gradst.) Inoue et Gradst.	49
**	<i>Vandiemenia ratkowskiana</i> Hewson	461
***	<i>Verdoornia succulenta</i> R.M.Schust.	456
***	<i>Verdoornianthus griffinii</i> Gradst.	414
***	<i>Verdoornianthus marsupifolius</i> (Spruce) Gradst.	414
***	<i>Vetaforma dusenii</i> (Steph.) Fulford et J.Taylor	142

***	<i>Vitalianthus bischlerianus</i> (K.C.Pôrto et Grolle) R.M.Schust. et Giacotti	361
**	<i>Vitalianthus guangxianus</i> R.L.Zhu, Qiong He et Y.M.Wei.....	361
***	<i>Wettsteinia densiretis</i> (Herzog) Grolle	45
***	<i>Wettsteinia inversa</i> (Sande Lac.) Schiffn.....	45
***	<i>Wettsteinia rotundifolia</i> (Horik.) Grolle.....	45
***	<i>Wettsteinia schusteriana</i> Grolle.....	45
***	<i>Wiesnerella denudata</i> (Mitt.) Steph.....	504
*	<i>Wiesnerella fasciaria</i> C.Gao et K.C.Chang.....	504
**	<i>Xenocephalozia navicularis</i> (Steph.) R.M.Schust.	217
**	<i>Xenochila integrifolia</i> (Mitt.) Inoue.....	253
***	<i>Xenothallus vulcanicola</i> R.M.Schust.	473
***	<i>Xylolejeunea aquarius</i> (Spruce) Xiao L.He et Grolle.....	398
***	<i>Xylolejeunea crenata</i> (Nees et Mont.) Xiao L.He et Grolle	398
***	<i>Xylolejeunea grolleana</i> (Pócs) Xiao L.He et Grolle.....	398
***	<i>Xylolejeunea muricella</i> Xiao L.He et Grolle	398
***	<i>Zantenia borneensis</i> (Herzog) Váňa et J.J.Engel	56
***	<i>Zantenia denticulata</i> (Grolle) Váňa et J.J.Engel.....	56
***	<i>Zantenia karstenii</i> (Schiffn.) Váňa et J.J.Engel.....	56
***	<i>Zantenia prionophylla</i> (S.Hatt.) Váňa et J.J.Engel.....	56
**	<i>Zoopsidella antillana</i> (Steph.) H.Rob.....	187
**	<i>Zoopsidella antillana</i> subsp. <i>jamaicensis</i> R.M.Schust.	187
***	<i>Zoopsidella caledonica</i> (Steph.) R.M.Schust.	187
**	<i>Zoopsidella cynosurandra</i> (Steph.) R.M.Schust.	187
***	<i>Zoopsidella integrifolia</i> (Spruce) R.M.Schust.....	188
**	<i>Zoopsidella macella</i> (Spruce) R.M.Schust.....	188
***	<i>Zoopsidella serra</i> (Spruce) R.M.Schust.	188
***	<i>Zoopsis argentea</i> (Hook.f. et Taylor) Gottsche, Lindenb. et Nees.....	188
**	<i>Zoopsis argentea</i> var. <i>flagelliformis</i> (Colenso) R.M.Schust.	188
***	<i>Zoopsis bicruris</i> Glenny et E.A.Br.	188
***	<i>Zoopsis ceratophylla</i> (Spruce) Hamlin.....	188
*	<i>Zoopsis ciliata</i> Colenso	189
***	<i>Zoopsis leitgebiana</i> (Carrington et Pearson) Bastow	188
**	<i>Zoopsis liukuensis</i> Horik.	188
***	<i>Zoopsis macrophylla</i> R.M.Schust.	188
*	<i>Zoopsis martinicensis</i> Steph.	189
***	<i>Zoopsis matawaia</i> M.A.M.Renner	188
***	<i>Zoopsis nitida</i> Glenny, Braggins et R.M.Schust.....	188
**	<i>Zoopsis setigera</i> K.I.Goebel	189
***	<i>Zoopsis setulosa</i> Leitg.....	188
**	<i>Zoopsis uleana</i> Steph.....	189

Acknowledgements

The Early Land Plants Today project has been a community driven and collaborative effort that has involved numerous dedicated individuals, many institutions, and funding agencies that have helped provide partial funding. The high quality of the data and information could not have been achieved without rapid responses to our requests for information regarding publications, PDFs or other forms of bibliographic data from committed individuals. These include Afroz Alam, Dulip Daniels, Rajendra Lavate, Shuvadeep Majum-

dar, Alexey Potemkin, Ana Séneca, Mafalda Silva, Devendra K. Singh, Sushil K. Singh, Louis Thouvenot, Praveen Verma, and Gerhard Winter. We wish to especially thank the many individuals who have provided a wealth of logistical support that has been broad ranging from access to data, assistance with translation, access to unpublished molecular results and information, access to type material or herbaria support, library support, advice on Latin usage as well as many other forms of support. These have included Silvia Aranda, Riccardo Baldini, Fred Barrie, Laura Campos, Tong Cao, Xia-Fang Cheng, Patricia Eckel, Len Ellis, Lars Hedenäs, Christine Giannoni, Qiong He, Nijole Kalinauskaitė, Lucia Kawasaki, Peter de Lange, Itambi Malombe, John McNeill, David Meagher, Chiara Nepi, Michelle Price, Qiong Qui, Steven Rogstad, Cecilia Sérgio, Blanka Shaw, Jon Shaw, Akiko Shinya, Lei Shu, Sorin Ștefănuț, Alain Vanderpoorten, Anna Vilnet, Yu-Mei Wei, Ying Yu, and Lan-Ping Zhou. We gratefully acknowledge the Biodiversity Heritage Library as a resource and the Conservatoire et Jardin botaniques de la Ville de Genève for providing access to the Franz Stephani database and specimens and Missouri Botanical Garden for access to the TROPICOS database. Throughout the years, the project has been generously supported in part by the Global Biological Information Facility (GBIF) Seed Money Award No.2007-41 and supported in part by funding from the Biodiversity Synthesis Center of the Encyclopedia of Life. Funding from the National Science Foundation (DBI-0749762, DBI 1057418, DBI 1458300, DEB- 1145898, EF-0531730, EF-1115116) has also partially supported aspects of the ELPT project. We also wish to express our gratitude to the editors and publication team of *Phytotaxa* that published the important series of notes that helped lead to the current publication and to the tireless efforts of the editorial and production team of *PhytoKeys* that led to the current publication.

References

- Abeywickrama BA (1959) The genera of liverworts of Ceylon. *Ceylon Journal of Science. Biological Sciences* 2 (1): 33–81.
- Acharius E (1805) *Jungermannia violacea*, eine neue Art aus Dusky Bay. *Beiträge zur Naturkunde* (Weber & Mohr) 1: 76–78. doi: 10.5962/bhl.title.45015
- Adanson M (1763) *Familles des plantes*, II partie. Vincent, Paris, 640 pp. doi: 10.5962/bhl.title.271
- Ahmad S (1942) Three new species of *Riccia* from India. *Current Science* 11 (11): 433–434.
- Ah-Peng C, Bardat J (2011) *Microlejeunea strasbergii* sp. nov. (Lejeuneaceae) from Réunion Island (Mascarenes). *Bryologist* 114 (4): 668–673. doi: 10.1639/0007-2745-114.4.668
- Alam A, Srivastava SC (2009) Current status of genus *Plagiochasma* in Nilgiri and Palni Hills with SEM details of spores. *Indian Journal of Forestry* 32 (4): 623–634.
- Alam A, Kumar A, Srivastava SC (2007) *Jungermannia nilgiriensis*, a new species from Nilgiri Hills (Western Ghats) India. *Bulletin of the Botanical Survey of India* 49 (1/4): 219–224.
- Alam A, Sharma D, Yadav S (2012) *Solenostoma tetragonum* (Lindenb.) R. M. Schust. ex Váňa et D. G. Long var. *kodaikanalensis* var. nov. *Phytotaxonomy* 12: 68–71.
- Allorge P (1929) *Schedae ad Bryothecam Ibericam*, 2e série, Nos. 51-100, Espagne. Paris, 27 pp.

- Allorge P, Allorge V (1950) Hépatiques récoltées par P. et V. Allorge aux îles Açores en 1937. *Revue Bryologique et Lichénologique* 19 (1/2): 90–118.
- Allorge V, Jovet-Ast S (1955) *Cololejeunea azorica* V. All. et Jovet-Ast, Lejeunéacée nouvelle de l'île San Miguel. *Mitteilungen der Thüringischen Botanischen Gesellschaft* 1 (2/3): 17–22.
- Amakawa T (1954) Notes on Japanese hepaticae (1). *Journal of Japanese Botany* 29 (6): 177–180.
- Amakawa T (1956) Notes on Japanese hepaticae (2). *Journal of Japanese Botany* 31 (2): 47–50.
- Amakawa T (1957a) Notes on Japanese hepaticae (4). *Journal of Japanese Botany* 32 (6): 165–169.
- Amakawa T (1957b) Notes on Japanese hepaticae (6). *Journal of Japanese Botany* 32 (10): 307–312.
- Amakawa T (1957c) Notes on Japanese hepaticae (3). *Journal of Japanese Botany* 32 (2): 34–41.
- Amakawa T (1957d) Notes on Japanese hepaticae (5). *Journal of Japanese Botany* 32 (7): 215–219.
- Amakawa T (1958a) Notes on Japanese hepaticae (7). *Journal of Japanese Botany* 33 (5): 142–145.
- Amakawa T (1958b) Notes on Japanese hepaticae (8). *Journal of Japanese Botany* 33 (11): 338–343.
- Amakawa T (1959a) Family Jungermanniaceae of Japan. I. *Journal of the Hattori Botanical Laboratory* 21: 248–291.
- Amakawa T (1959b) Notes on Japanese hepaticae (9). *Journal of Japanese Botany* 34 (4): 111–116.
- Amakawa T (1960a) Notes on Japanese hepaticae (11). *Journal of Japanese Botany* 35 (12): 363–368.
- Amakawa T (1960b) Family Jungermanniaceae of Japan, II. *Journal of the Hattori Botanical Laboratory* 22: 1–90.
- Amakawa T (1962) A new genus *Diplocolea* (Hepaticae) from eastern Himalayas. *Journal of Japanese Botany* 37 (9): 274.
- Amakawa T (1963) New or little known Asiatic species of the family Jungermanniaceae. I. *Journal of the Hattori Botanical Laboratory* 26: 20–26.
- Amakawa T (1964a) A short revision of Himalayan *Scapania* (Hepaticae). *Journal of the Hattori Botanical Laboratory* 27: 1–19.
- Amakawa T (1964b) Notes on Japanese hepaticae (13). *Journal of Japanese Botany* 39 (5): 135–139.
- Amakawa T (1965) Notes on Japanese hepaticae (14). *Journal of Japanese Botany* 40 (10): 307–310.
- Amakawa T (1966) New or little known Asiatic species of the family Jungermanniaceae. II. *Journal of the Hattori Botanical Laboratory* 29: 253–266.
- Amakawa T (1967a) *Scapania* sect. *Gracilidae* of the areas around the North Pacific Ocean. *Journal of the Hattori Botanical Laboratory* 30: 315–327.
- Amakawa T (1967b) New or little known Asiatic species of the family Jungermanniaceae. III. *Journal of the Hattori Botanical Laboratory* 30: 181–198.
- Amakawa T (1968a) New or critical species of the genus *Scapania* of Japan I. *Journal of the Hattori Botanical Laboratory* 31: 94–100.

- Amakawa T (1968b) New or little known Asiatic species of the family Jungermanniaceae. IV. Journal of the Hattori Botanical Laboratory 31: 101–112.
- Amakawa T (1970) New or little known Asiatic species of the family Jungermanniaceae. VI. *Jungermannia comata* Nees and its allies. Journal of the Hattori Botanical Laboratory 33: 153–160.
- Amakawa T, Hattori S (1953) A revision of the Japanese species of Scapaniaceae. I. Journal of the Hattori Botanical Laboratory 9: 45–62.
- Amakawa T, Hattori S (1954) A revision of the Japanese species of Scapaniaceae. II. Journal of the Hattori Botanical Laboratory 12: 91–112.
- Amakawa T, Hattori S (1955) A revision of the Japanese species of Scapaniaceae. III. Journal of the Hattori Botanical Laboratory 14: 71–90.
- Ando H (1963) *Pseudolepicolea* found in the middle Honshu of Japan. *Hikobia* 3 (3): 177–183.
- Ångström J (1872) Förteckning och beskrifning öfver mossor, samlade af Professor N.J. Anderson under Fregatten Eugenies verldsomsegling åren 1851–53. I–III. Öfversigt af Kongl. Vetenskaps-Akademiens Förhandlingar 29 (4): 3–29.
- Ångström J (1873) Mossor från Tahiti och Eimeo. Öfversigt af Kongl. Vetenskaps-Akademiens Förhandlingar 30 (5): 113–151.
- Ångström J (1876) Primae lineae muscorum cognoscendorum, qui ad Caldas Brasiliae sunt collecti. Continuatio. II. Hepaticae. Öfversigt af Kongl. Vetenskaps-Akademiens Förhandlingar 33 (7): 77–92.
- Anonymous (1848) Proceedings of learned societies. Linnean Society. Annals and Magazine of Natural History (ser. 2) 1 (5): 375–387.
- Anonymous (1873) Smärre notiser. Lärda sällskaps sammanträden. Botaniska Notiser 26: 59–62.
- Aranda SC, Gradstein SR, Patiño J, Laenen B, Désamoré A, Vanderpoorten A (2014) Phylogeny, classification and species delimitation in the liverwort genus *Odontoschisma* (Cephaloziaceae). *Taxon* 63 (5): 1008–1025. doi: 10.12705/635.12
- Ariyanti NS, Gradstein SR, Sporn SG, Angelika R, Tan BC (2009) Catalogue of the bryophytes of Sulawesi. Supplement 1: new species records. *Blumea* 54 (1/3): 287–289. doi: 10.3767/000651909X476300
- Arnell HW (1892) Lebermoosstudien im nördlichen Norwegen. C. J. Lundgrens Enkas Tryckeri, Jönköping, 44 pp.
- Arnell HW (1898) Musci novi. *Revue Bryologique* 25 (1): 1–9.
- Arnell HW (1902) Novae species generis *Kantia*. *Revue Bryologique* 29 (2): 26–32.
- Arnell HW (1903) *Martinellia calcicola* Arnell et Persson nova sp. *Revue Bryologique* 30 (6): 97–98.
- Arnell HW (1913) Zur Moosflora des Lena-Tales. *Arkiv för Botanik* 13 (2): 1–94.
- Arnell HW (1921) *Martinellia tundrae* Arnell, nova species. *Botaniska Notiser* 74: 289–291.
- Arnell HW (1927) Lebermoose aus Kamtschatka. *Hedwigia* 67 (1/2): 110–112.
- Arnell HW (1928) Levermossor (in: Hartmans Handbok i Skandinavians Flora redigerad av Otto R. Holmberg). P. A. Norstedt & Söner Förlag, Stockholm, 224 pp.
- Arnell SW (1947) Contribution to the knowledge of the hepatics of Novaya Zemlya. *Svensk Botanisk Tidskrift* 41: 209–217.
- Arnell SW (1950) *Leiocolea arctica*, nov. spec. *Svensk Botanisk Tidskrift* 44 (2): 374–378.
- Arnell SW (1952a) Hepaticae collected in South and West Africa 1951. *Botaniska Notiser* 105: 307–329.

- Arnell SW (1952b) South African species of *Riccardia*. Botaniska Notiser 105: 138–156.
- Arnell SW (1953a) Hepaticae collected in South Africa 1951. Svensk Botanisk Tidskrift 47 (1): 107–118.
- Arnell SW (1953b) Hepaticae collected in South Africa 1951. New and little known species. III. Botaniska Notiser 106: 271–289.
- Arnell SW (1953c) List of hepaticae collected in Marion Island by Mr. R. W. Rand Dec. 1951–April 1952. Svensk Botanisk Tidskrift 47 (3): 411–425.
- Arnell SW (1954a) New species of hepaticae from South Africa. Revue Bryologique et Lichénologique 23 (1/2): 173–179.
- Arnell SW (1954b) Species of *Riccardia* collected by H. Roivainen in Tierra del Fuego and west Patagonia, 1928–29. Archivum Societatis Zoologicae Botanicae Fennicae “Vanamo” 9: 48–55.
- Arnell SW (1954c) A new species of *Lepidozia* from South Africa. Botaniska Notiser 107: 427–429.
- Arnell SW (1955a) A new species of *Cololejeunea* from Moçambique. Mitteilungen der Thüringischen Botanischen Gesellschaft 1 (1): 7–8.
- Arnell SW (1955b) Notes on South African hepatics. II. Botaniska Notiser 108: 309–313.
- Arnell SW (1956a) A new species of *Cheilolejeunea* from Samoa. Svensk Botanisk Tidskrift 50 (3): 516–517.
- Arnell SW (1956b) Illustrated moss flora of Fennoscandia. I. Hepaticae. Nordic Bryological Society, Lund, 314 pp.
- Arnell SW (1956c) Hepaticae collected in Cuba and Hispaniola by E. L. Ekman. Bryologist 59 (4): 271–276. doi: 10.2307/3240336
- Arnell SW (1956d) Hepaticae collected by Dr. and Mrs. Carl Skottsberg on Cerro Talinay, Prov. Coquimbo, Chile, 1955. Svensk Botanisk Tidskrift 50 (2): 308–312.
- Arnell SW (1956e) Hepaticae collected by O. Hedberg et al. on the East African Mountains. Arkiv för Botanik (n.ser.) 3 (16): 517–562.
- Arnell SW (1957a) Notes on South African hepaticae. IV. Botaniska Notiser 110 (1): 17–27.
- Arnell SW (1957b) Hepaticae collected during Dr. and Mrs. Skottsberg’s second expedition to the Juan Fernández Islands, Dec. 1954–March 1955. Arkiv för Botanik (n.ser.) 4 (1): 1–21.
- Arnell SW (1957c) Hepaticae collected in southwest Africa by Dr. O. H. Volk. Mitteilungen der Botanischen Staatssammlung München 2 (16): 262–272.
- Arnell SW (1957d) Notes on South African hepaticae. V. Botaniska Notiser 110: 399–405.
- Arnell SW (1958a) New hepaticae from Cameroon Mountain. Svensk Botanisk Tidskrift 52 (1): 63–67.
- Arnell SW (1958b) Hepatics from Tristan da Cunha. Results of the Norwegian Scientific Expedition to Tristan da Cunha, 1937–38 42: 1–76.
- Arnell SW (1958c) New species of *Asterella* and *Riccia* from Sto. Domingo and Cuba. Bryologist 61 (2): 140–143. doi: 10.2307/3240214
- Arnell SW (1959) Hepatics collected by Dr. G. Degelius on Martinique and in French Guiana in 1958. Svensk Botanisk Tidskrift 53 (4): 499–506.
- Arnell SW (1961) Some new American species of hepatics. Svensk Botanisk Tidskrift 55 (1): 205–210.

- Arnell SW (1962a) Notes on South African hepaticae. VII. *Botaniska Notiser* 115: 203–207.
- Arnell SW (1962b) Contribution to the knowledge of the hepaticae of Ecuador. *Svensk Botanisk Tidskrift* 56 (2): 334–350.
- Arnell SW (1963a) Two new hepatics from Queensland. *Svensk Botanisk Tidskrift* 57 (2): 190–192.
- Arnell SW (1963b) Hepaticae of South Africa. Swedish Natural Science Research Council, Stockholm, 411 pp.
- Arnell SW (1965) Hepaticae collected by Mr. Gillis Een in Mauritius and Réunion in 1962. *Svensk Botanisk Tidskrift* 59 (1): 65–84.
- Arnell HW, Buch H (1921) *Martinellia scandica* nov. spec. *Botaniska Notiser* 74: 1–2.
- Arnell HW, Jensen C (1907) Die Moose des Sarekgebietes. Erste Abteilung. In: Hamberg A (Ed.) *Naturwissenschaftliche Untersuchungen des Sarekgebirges in Schwedisch-Lapland* Bd. 3. Botanik. C. E. Fritzes, Stockholm, 71–132.
- Arnell SW, Mårtensson O (1959) A contribution to the knowledge of the bryophyte flora of W. Spitsbergen, and Kongsfjorden (King's Bay, 79°N.) in particular. *Arkiv för Botanik* (n.ser.) 4 (6): 105–164.
- Asakawa Y (1998) Biologically active compounds from bryophytes. *Journal of the Hattori Botanical Laboratory* 84: 91–104.
- Asthana G, Maurya M (2014) *Lethocolea indica*: A new liverwort from India. *National Academy Science Letters* 37 (6): 535–539. doi: 10.1007/s40009-014-0274-z
- Asthana AK, Nath V (1993) A new *Phaeoceros* from western Himalayas, *Phaeoceros udarii* sp. nov. *Proceedings of the National Academy of Sciences of India. Section B, Biological Sciences* 63 (4): 461–464.
- Asthana G, Shukla A (2010) A new epiphyllous species of *Cololejeunea* (Lejeuneaceae) from India. *Cryptogamie, Bryologie* 31 (3): 217–221.
- Asthana AK, Srivastava SC (1986) A new *Folioceros* from Silent Valley. *Cryptogamie: Bryologie, Lichénologie* 7 (2): 149–153.
- Asthana AK, Srivastava SC (1991) Indian hornworts (a taxonomic study). *Bryophytorum Bibliotheca* 42: 1–159.
- Asthana G, Srivastava SC (2003) Indian *Cololejeunea*: A taxonomic study. *Bryophytorum Bibliotheca* 60: 1–155.
- Asthana G, Srivastava S (2013) *Cephalozia kodaikanalensis* sp. nov. (Cephaloziaceae) from Palni Hills, Tamil Nadu, India. *Geophytology* 43 (1): 63–67.
- Asthana G, Srivastava SC, Asthana AK (1995) The genus *Cheilolejeunea* in India. *Lindbergia* 20 (2/3): 125–143.
- Asthana G, Saxena M, Maurya M (2013) A new species of *Blepharostoma*, *B. indica* sp. nov. from the western Himalaya, India, with observations on the closely allied *B. trichophyllum* (L.) Dumort. *Journal of Bryology* 35 (4): 266–269. doi: 10.1179/0373668713Z.00000000076
- Augier J (1972) *Cheilolejeunea diversifolia* sp. nov. *Annales, Faculté des Sciences, Université Fédérale du Cameroun* 11: 65–70.
- Austin CF (1869) Characters of some new hepaticae. *Proceedings of the Academy of Natural Sciences of Philadelphia* 21: 218–234.

- Austin CF (1872) New hepaticae. *Bulletin of the Torrey Botanical Club* 3 (3): 9–18. doi: 10.2307/2476500
- Austin CF (1873) Hepaticae boreali-americanae. Closter, New Jersey, 1–48.
- Austin CF (1874) Sandwich Island hepaticae. *Bulletin of the Torrey Botanical Club* 5 (3): 14–18. doi: 10.2307/2475623
- Austin CF (1875a) Notes on the Anthocerotaceae of North America, with descriptions of several new species. *Bulletin of the Torrey Botanical Club* 6 (4): 25–29. doi: 10.2307/2476484
- Austin CF (1875b) New hepaticae. *Bulletin of the Torrey Botanical Club* 6 (3): 17–21. doi: 10.2307/2475861
- Austin CF (1875c) New hepaticae. *Bulletin of the Torrey Botanical Club* 6 (7): 46–47. doi: 10.2307/2475383
- Austin CF (1876a) Notes on hepaticology. *Botanical Bulletin. Hanover* 1 (8): 35–36.
- Austin CF (1876b) Notes on hepaticology. *Botanical Bulletin. Hanover* 1 (7): 31–32.
- Austin CF (1876c) Notes and criticism on Hepaticae Boreali-Americanae Exsiccatae. *Bulletin of the Torrey Botanical Club* 6 (16): 85. doi: 10.2307/2476773
- Austin CF (1877) New hepaticae. *Bulletin of the Torrey Botanical Club* 6 (30): 157–158. doi: 10.2307/2475830
- Austin CF (1878) Notes on hepaticology. *Botanical Gazette* 3 (1): 6–7. doi: 10.1086/325111
- Austin CF (1879) Notes on hepaticology. *Bulletin of the Torrey Botanical Club* 6 (52): 301–306. doi: 10.2307/2476817
- Bai X-L, Gao C (1999) A new species of the genus *Frullania* taxa from Yunnan, China. *Hikobia* 13 (1): 87–88.
- Bai X-L, Gao C (2000) *Frullania laevi-periantha* (Frullaniaceae, Hepaticae). A new species from Yunnan, China. *Nova Hedwigia* 70 (1/2): 135–137.
- Bakalin VA (2003) Notes on *Lophozia*. IV. Some new taxa of *Lophozia* sensu stricto. *Annales Botanici Fennici* 40 (1): 47–52.
- Bakalin VA (2005) Monograficheskaia obrabotka roda *Lophozia* (Dumort.) Dumort. s. str. [Monograph of the genus *Lophozia* (Dumort.) Dumort. s. str.]. Nauka, Moscow, 240 pp.
- Bakalin VA (2007) New liverwort records from Sakhalin Province. 2. Southern Kuril Islands. *Arctoa* 16: 202–209. doi: 10.15298/arctoa.16.03
- Bakalin VA (2008a) New liverwort records from Sakhalin Province. 3 [Novye nahodki pechenonnikov v Sahalinskoj oblasti]. *Arctoa* 17: 226–230. doi: 10.15298/arctoa.17.16
- Bakalin VA (2008b) New data on distribution and taxonomy of some species in Lophoziaceae (Hepaticae) [Novye svedeniia o rasprostraneni i taksonomii nekotoryh vidov semejstva Lophoziaceae (Hepaticae)]. *Arctoa* 17: 161–164. doi: 10.15298/arctoa.17.12
- Bakalin VA (2008c) On taxonomy of some hepatics from Primorsky Territory (Russian Far East), with the list of taxa of the territory [O taksonomii nekotoryh pechenonnikov Primorskogo kraia (Rossijskij Dal'nij Vostok) so spiskom taksonov, izvestnyh v krae]. *Arctoa* 17: 101–108. doi: 10.15298/arctoa.17.08
- Bakalin VA (2011) Notes on *Lophozia* VI. Taxonomy and distribution of *Lophozia* and *Schistochilopsis* (Lophoziaceae) in North America north of Mexico. *Bryologist* 114 (2): 298–315. doi: 10.1639/0007-2745.114.2.298

- Bakalin VA (2013) New taxa of *Solenostoma* and *Plectocolea* and other taxonomic novelties based on study of collections in the New York Botanical Garden herbarium. *Polish Botanical Journal* 58 (1): 127–142. doi: 10.2478/pbj-2013-0014
- Bakalin VA (2014) The study of type collection in Conservatoire et Jardin Botanique de la Ville de Genève (G): the hepatic genera *Jungermannia*, *Solenostoma* and *Plectocolea*. *Arctoa* 23: 91–136. doi: 10.15298/arctoa.23.10
- Bakalin VA, Vilnet AA (2009) Two new species of Jungermanniaceae from Asiatic Russia [Dva novyh vida Jungermanniaceae iz aziatskoj chasti Rossii]. *Arctoa* 18: 151–162. doi: 10.15298/arctoa.18.08
- Bakalin VA, Vilnet AA (2014) Two new species of the liverwort genus *Hygrobrella* Spruce (Marchantiophyta) described from the North Pacific based on integrative taxonomy. *Plant Systematics and Evolution* 300 (10): 2277–2291. doi: 10.1007/s00606-014-1050-8
- Bakalin VA, Choi SS, Sun B-Y (2009a) A new species of *Tritomaria* (Lophoziaceae) from the Korean peninsula [Novyj vid *Tritomaria* (Lophoziaceae) s Korejskogo Poluostrova]. *Arctoa* 18: 163–166. doi: 10.15298/arctoa.18.09
- Bakalin VA, Čerdanceva VY, Ignatov MS, Ignatova EA, Nûshko TI (2009b) Bryophyte flora of the South Kuril Islands (East Asia) [Flora mohoobraznykh iuzhnykh Kurilskikh ostrovov (Vostochnaia Asii)]. *Arctoa* 18: 69–114. doi: 10.15298/arctoa.18.03
- Bakalin VA, Vilnet AA, Furuki T, Katagiri T (2014) Taxonomic novelties in *Solenostoma*–*Plectocolea* complex (Solenostomataceae, Hepaticae) in East Asia. *Botanica Pacifica* 3 (2): 3–18. doi: 10.17581/bp.2014.03201
- Balbis GB (1804) Sur trois nouvelles espèces d'hépatiques à ajouter à la flore du Piémont. *Mémoires de l'Académie des Sciences, Littérature et Beaux-arts de Turin, Sciences Physiques et Mathématiques* 15: 73–77.
- Balmford A, Crane P, Dobson A, Green RE, Mace GM (2005) The 2010 challenge: data availability, information needs and extraterrestrial insights. *Philosophical Transactions of the Royal Society of London. Series B* 360 (1454): 221–228. doi: 10.1098/rstb.2004.1599
- Banwell AD (1951) A new species of *Riella* from Australia. *Transactions of the British Bryological Society* 1 (5): 475–478. doi: 10.1179/006813851804878463
- Bapna KR (1961) A new species of *Riccia* from Jodhpur (India). *Botaniska Notiser* 114 (2): 181–184.
- Bapna KR (1962) A new species of *Riccia* from Mount Abu (India). *Transactions of the British Bryological Society* 4 (2): 249–253. doi: 10.1179/006813862804812599
- Bapna KR (1966) A review of Indian Anthocerotales. *University of Udaipur Research Studies* 3: 127–145.
- Bapna KR, Vyas GG (1962) Studies in the liverworts of Mount Abu (India). I. A preliminary account. *Journal of the Hattori Botanical Laboratory* 25: 81–90.
- Bartholomew-Began SE (1991) A morphogenetic re-evaluation of *Haplomitrium* Nees (Hepaticopsida). *Bryophytorum Bibliotheca* 41: 1–297.
- Bastos CJ (2011) *Cheilolejeunea ornata* (Lejeuneaceae), a new species from Brazilian Atlantic Forest. *Journal of Bryology* 33 (1): 86–92. doi: 10.1179/1743282010Y.0000000005
- Bastos CJ (2012a) Nomenclatural notes on the genus *Rectolejeunea* A.Evans (Lejeuneaceae, Marchantiophyta). *Journal of Bryology* 34 (2): 144–145. doi: 10.1179/1743282011Y.0000000032

- Bastos CJ (2012b) Type studies on *Cheilolejeunea* (Spruce) Schiffn. (Lejeuneaceae): Brazilian species described by Stephani. *Journal of Bryology* 34 (4): 315–318. doi: 10.1179/1743282012Y.0000000028
- Bastos CJ (2014) On *Trachylejeunea subplana* Steph. (Lejeuneaceae, Marchantiophyta). *Journal of Bryology* 36 (3): 249–250. doi: 10.1179/1743282014Y.0000000093
- Bastos CJ, Gradstein SR (2006) Two new species of *Cheilolejeunea* (Spruce) Schiffn. (Lejeuneaceae) from Brazil: *C. lacerata* sp. nov. and *C. rupestris* sp. nov. *Journal of Bryology* 28 (2): 133–138. doi: 10.1179/174328206X105425
- Bastos CJ, Yano O (2002) *Pycnolejeunea porrectilobula* (Lejeuneaceae), a new species from Brazil. *Nova Hedwigia* 74 (3/4): 439–444. doi: 10.1127/0029-5035/2002/0074-0439
- Bastow RA (1888) Tasmanian hepaticae. *Papers and Proceedings of the Royal Society of Tasmania* 1887: 209–289.
- Battandier JA, Trabut LC (1886) *Atlas de la flore d'Alger*, fasc. 1. Adolph Jordan, Alger, 1–16.
- Beckmann KG, Scott GAM (1992) A new thallose genus of leafy liverworts from Australia. *Journal of Bryology* 17 (2): 297–305. doi: 10.1179/jbr.1992.17.2.297
- Bell D, Long DG, Forrest AD, Hollingsworth ML, Blom HH, Hollingsworth PM (2012) DNA barcoding of European *Herbertus* (Marchantiopsida, Herbertaceae) and the discovery and description of a new species. *Molecular Ecology Resources* 12: 36–47. doi: 10.1111/j.1755-0998.2011.03053.x
- Bell D, Long D, Hollingsworth P (2013) The use of DNA barcoding to address major taxonomic problems for rare British bryophytes. *Royal Botanic Garden, Edinburgh*, 69 pp.
- Bellardi CAL (1792) Appendix ad floram pedemontanum. Augustae Taurinorum, Torino, 80 pp.
- Benedix EH (1953) Indomalayische Cololejeuneen. *Feddes Repertorium Specierum Novarum Regni Vegetabilis*. Beiheft 134: 1–88.
- Berggren S (1875) Musci et hepaticae spetsbergenses. *Kongliga Svenska Vetenskaps-Akademiens Handlingar* (n.ser.) 13 (7): 1–103.
- Berggren S (1898) On New Zealand hepaticae. I. E. Malmström, Lund, 48 pp.
- Berkeley MJ (1857) *Introduction to cryptogamic botany*. H. Bailliere, London, 604 pp. doi: 10.5962/bhl.title.45843
- Bernal R, Gradstein SR, Celis M (2015) New names and new combinations for the catalogue of the plants and lichens of Colombia. *Phytoneuron* 2015 (22): 1–6.
- Bernecker-Lücking A (1998) New species of Lejeuneaceae (Hepaticae) from Costa Rica – I. *Aphanolejeunea*. *Nova Hedwigia* 66 (1/2): 163–171.
- Bernecker-Lücking A (1999) New species of Lejeuneaceae (Hepaticae) from Costa Rica. II. *Oryzolejeunea*. *Haussknechtia*, Beiheft 9: 37–40.
- Bernet H (1888) *Catalogue des hépatiques du sud-ouest de la Suisse*. H. Georg, Genève, Bale et Lyon, 135 pp.
- Berrie GK (1963) Australian liverworts. I. *Haplomitrium intermedium* sp. nov. (Calobryales). *Proceedings of the Linnean Society of New South Wales* (ser. 2) 87 (399): 191–195.
- Bertoloni A (1817) *Fine delle osservazioni botaniche*. *Opuscoli Scientifici* 1: 229–243.
- Bertoloni A (1862) *Miscellanea botanica XXIII*. *Memorie della Reale Accademia della Scienze dell'Istituto di Bologna* (Ser. 2) 1: 215–232.
- Bescherelle É (1892) Énumération des hépatiques récoltées au Tonkin par M. Balansa et déterminées par M. Stephani. *Revue Bryologique* 19 (1): 13–15.

- Bescherelle É (1898) Énumération des hépatiques connues dans les îles de la Société (principalement à Tahiti) et dans les îles Marquises. *Journal de Botanique (Morot)* 12: 136–150.
- Bescherelle É, Massalongo CB (1886) *Hepaticae novae americanae-australes*. *Bulletin Mensuel de la Société Linnéenne de Paris* 1 (79): 626–640.
- Bescherelle É, Massalongo CB (1889) Muscinées. I. Hépatiques. In: Hariot PA, Petit P, Muller d'Argovie J, Bescherelle E, Massalongo C, Franchet A (Eds) *Mission scientifique du Cap Horn, Tome V. Botanique*. Gauthier-Villars et fils, Paris, 201–252. doi: 10.5962/bhl.title.2480
- Bescherelle É, Spruce R (1889) Hépatiques nouvelles des colonies Françaises. *Bulletin de la Société Botanique de France (Congrès de Botanique)* 36: clxxvii–clxxxix.
- Bharadwaj DC (1971) On *Folioceros*, a new genus of Anthocerotales. *Geophytology* 1 (1): 6–15.
- Bharadwaj DC (1975) Validation of some new combinations under *Folioceros* Bharadwaj. *Geophytology* 5 (2): 227–228.
- Bharadwaj DC (1978) Studies in Indian Anthocerotaceae V. Morphotaxonomy of some Indian species of *Folioceros* Bharadwaj. *Geophytology* 8 (1): 111–119.
- Bisang I (1991) Biosystematische Studien an *Lophozia* subg. *Schistochilopsis* (Hepaticae). *Bryophytorum Bibliotheca* 43: 1–187.
- Bischler H (1962a) The genus *Calypogeja* Raddi in Central and South America. II. Subgenus *Calypogeja* subgroups 1, 2 and 3. *Candollea* 18: 53–93.
- Bischler H (1962b) The genus *Calypogeja* Raddi in Central and South America. I. Introduction and subgenera *Mnioloma* and *Caracoma*. *Candollea* 18: 19–51.
- Bischler H (1962c) The genus *Calypogeja* Raddi in Central and South America III. Subgenus *Calypogeja*, subgroups 4 and 5. *Candollea* 18: 95–128.
- Bischler H (1964) Le genre *Drepanolejeunea* Steph. en Amérique Centrale et Méridionale. *Revue Bryologique et Lichénologique* 33 (1/2): 15–179.
- Bischler H (1967) Le genre *Drepanolejeunea* Steph. en Amérique Centrale et Méridionale. II. *Revue Bryologique et Lichénologique* 35 (1/4): 95–134.
- Bischler H (1968) Monographie du genre *Rhaphidolejeunea* Herzog. *Revue Bryologique et Lichénologique* 36 (1/2): 56–104.
- Bischler H (1969) Le genre *Leptolejeunea* (Spruce) Steph. en Amérique. *Nova Hedwigia* 17: 265–350.
- Bischler H (1970) Les espèces du genre *Calypogeia* sur le continent africain et les îles africaines. *Revue Bryologique et Lichénologique* 37 (1): 63–134.
- Bischler H (1977) *Plagiochasma* Lehm. et Lindenb. I. Le genre et ses subdivisions. *Revue Bryologique et Lichénologique* 43 (1): 67–109.
- Bischler H (1978) *Plagiochasma* Lehm. & Lindenb. II. Les taxa européens et africains. *Revue Bryologique et Lichénologique* 44 (3): 223–300.
- Bischler H (1979a) *Plagiochasma* Lehm. et Lindenb. IV. Les taxa américains. *Revue Bryologique et Lichénologique* 45 (3): 255–333.
- Bischler H (1979b) *Plagiochasma* Lehm. et Lindenb. III. Les taxa d'Asie et d'Océanie. *Journal of the Hattori Botanical Laboratory* 45: 25–79.

- Bischler H (1982) *Marchantia* L.: morphologie sporale, germination et rang taxonomique des sections *Marchantia* et *Chlamidium* (Corda) Nees. *Cryptogamie: Bryologie, Lichénologie* 3 (4): 351–364.
- Bischler H (1984) *Marchantia* L. The New World species. *Bryophytorum Bibliotheca* 26: 1–228.
- Bischler H (1989a) *Marchantia* L.: subg. *Chlamidium* (Nees) Bischl. sect. *Papillatae* Bischl. sect. nov. en Asie et en Océanie. *Cryptogamie: Bryologie, Lichénologie* 10 (1): 61–79.
- Bischler H (1989b) *Marchantia* L. The Asiatic and Oceanic taxa. *Bryophytorum Bibliotheca* 38: 1–317.
- Bischler H, Whittimore AT (2001) *Cronisia* and its two species, *C. fimbriata* and *C. weddellii*. *Cryptogamie, Bryologie* 22 (3): 167–174. doi: 10.1016/S1290-0796(01)90001-X
- Bischler H, Miller HA, Bonner CEB (1961) Studies in Lejeuneaceae III. A historical account of *Lejeunea cucullata* (Reinwardt, Blume & Nees) Nees and its varieties. *Nova Hedwigia* 3 (4): 445–462.
- Bischler H, Bonner CEB, Miller HA (1963) Studies in Lejeuneaceae VI: The genus *Microlejeunea* Steph. in Central and South America. *Nova Hedwigia* 5 (1/2): 359–411.
- Bischler-Causse H (1993) *Marchantia* L. The European and African taxa. *Bryophytorum Bibliotheca* 45: 1–129.
- Bischler-Causse H, Boisselier-Dubayle MC (1991) Lectotypification of *Marchantia polymorpha* L. *Journal of Bryology* 16 (3): 361–365. doi: 10.1179/jbr.1991.16.3.361
- Bischler-Causse H, Gradstein SR, Jovet-Ast S, Long DG, Salazar Allen N (2005) Marchantiidae. *Flora Neotropica, Monograph* 97: 1–267.
- Bischoff GW (1835) Bemerkungen über die Lebermoose. Halle, 1–180.
- Bizot M, Pócs T (1979) East African bryophytes, III. *Acta Botanica Academiae Scientiarum Hungaricae* 25 (3/4): 223–261.
- Blom HH, Holten JI (1988) *Plagiochila norvegica*, a new hepatic from west Norway. *Lindbergia* 14 (1): 8–11.
- Blomquist HL (1939) A new species of *Plagiochila* from southern Appalachian Mountains. *Bryologist* 42 (5): 113–117. doi: 10.2307/3239827
- Bluff MJ, Fingerhuth CA (1831) *Compendium florae Germaniae. Tomus III. J. L. Schlag, Norimbergae [Nürnberg]* 654 pp.
- Blume CF, Nees CG (1823) Pugillus plantarum iavanicarum e cryptogamicarum variis ordinibus selectus. *Nova Acta Physico-Medica Academiae Caesareae Leopoldino-Carolinae Naturae Curiosorum* 11: 119–140.
- Boiko MF (2011) *Syntrichia ruralis* var. *polysporogonica* and *Riccia rhenana* var. *violacea* – new infraspecific bryophyte taxa. *Chornomorski Botanical Journal* 7: 92–93.
- Boisselier-Dubayle MC, de Chaldée M, Guérin L, Lambourdière J, Bischler H (1995) Genetic variability in western European *Lunularia* (Hepaticae, Lunulariaceae). *Fragmenta Floristica et Geobotanica* 40 (1): 379–391.
- Bonner CEB (1953a) De hepaticis. III. A contribution to the study of the genus *Ceratolejeunea* (Spruce) Schiffner. *Candollea* 14: 163–252.
- Bonner CEB (1953b) De hepaticis. II. An unpublished section of volume 6 of Stephani's *Species hepaticarum: the genus Marchantia*. *Candollea* 14: 101–112.

- Bonner CEB (1963) Index hepaticarum. Pars III. *Barbilophozia* to *Ceranthus*. J. Cramer, Weinheim, 636 pp.
- Bornefeld T, Volk OH, Wolf R (1996) *Exormotheca bulbigena* sp. nov. (Hepaticae, Marchantiales) and its relation to *E. holstii* in southern Africa. *Bothalia* 26 (2): 159–165. doi: 10.4102/abc.v26i2.703
- Borrer W, Babington CC, Berkeley MJ, Wilson W (1849) Supplement to the English botany of the late sir. J. E. Smith and Mr. Sowerby, vol. IV. J. Davis, London, 2868–2960.
- Bory JBG (1804) Voyage dans les quatre principales îles des mers d’Afrique. Tome Second. F. Buisson, Paris, 431 pp.
- Bory JBG, Montagne JFC (1844) Sur un nouveau genre de la famille des hépatiques. *Annales des Sciences Naturelles; Botanique (sér. 3)* 1: 223–235.
- Bottini A, Massalongo CB, Levier E (1900) Muscinee dell’Isola del Giglio. In: Sommier S (Ed.) *Isola dell’Giglio*. C. Clausen, Torino, 103–124.
- Boulay JN (1904) Muscinées de la France. Deuxième partie. Hépatiques. Paul Klincksieck, Paris, 224 pp.
- Bouman AC, Dirkse GM, Yamada K (1988) *Radula jonesii* spec. nov. (Hepaticae) a new species from Tenerife. *Journal of Bryology* 15 (1): 161–164. doi: 10.1179/jbr.1988.15.1.161
- Braithwaite R (1878) *Riccia spuria*, Dickson. *Journal of Botany, British and Foreign* 16: 55.
- Braun A (1821) Bemerkungen über einige Lebermoose. *Flora* 4 (2): 754–757.
- Breidler J (1894) Die Lebermoose Steiermarks. *Mitteilungen des Naturwissenschaftlichen Vereines für Steiermark* 30: 256–357.
- Brinkman AH (1931) Notes on some Canadian hepatics, no. 2. *Bryologist* 34 (2): 13–16. doi: 10.2307/3239812
- Briscoe L, Engel JJ, Söderström L, Hagborg A, von Konrat M (2015) Notes on Early Land Plants Today. 66. Nomenclatural notes on Acrobolbaceae. *Phytotaxa* 202 (1): 58–62. doi: 10.11646/phytotaxa.202.1.8
- Brito ES, Ilkiu-Borges AL (2012) A new species of *Ceratolejeunea* Jack & Steph. (Lejeuneaceae, Jungermanniopsida) from a remnant of Amazonian forest in Maranhão, Brazil. *Nova Hedwigia* 95 (3/4): 423–428. doi: 10.1127/0029-5035/2012/0066
- Britton NL (1915) The vegetation of Mona Island. *Annals of the Missouri Botanical Garden* 2 (1/2): 33–58. doi: 10.2307/2990028
- Brockmüller H (1863) Beiträge zur Kryptogamenflora Mecklenburgs. *Archiv des Vereins der Freunde der Naturgeschichte in Mecklenburg* 17: 162–256.
- Brotero FA (1804) *Flora lusitanica*, pars II. Typographia Regia, Olisipone [Lisboa], 607 pp.
- Brotherus VF (1872) *Musci fenniae exsiccatae*, fasc. 2. Helsinki, no. 51–100.
- Brown EA, Braggins JE (1989) A revision of the genus *Riccardia* S. F. Gray in New Zealand with notes on the genus *Aneura* Dum. *Journal of the Hattori Botanical Laboratory* 66: 1–132.
- Brown EA, Pócs T (2001) A new species of *Radula* sect. *Cavifolium* (Radulaceae: Hepaticae) from Queensland, Australia. *Telopea* 9 (3): 435–438. doi: 10.7751/telopea20024000
- Brown EA, Renner MAM (2014) The genus *Acromastigum* in Australia. *Telopea* 17: 251–293. doi: 10.7751/telopea20147708
- Brown EA, Söderström L, Hagborg A, von Konrat MJ (2012) Notes on Early Land Plants Today. 10. A new combination in *Acromastigum*. *Phytotaxa* 65: 58.

- Bryhn N (1892) *Scapania crassiretis* sp. nov. Revue Bryologique 19 (1): 7–8.
- Bryhn N (1906) Bryophyta in itinere polari norvagorum. Report of the Second Norwegian Arctic Expedition in the “Fram” 1898–1902 11: 1–260.
- Buch H (1916) Studien über die Scapanien Fenno-Scandias – 1. *Scapania* Curta-Gruppe. Meddelanden af Societas pro Fauna et Flora Fennica 42: 85–96.
- Buch H (1927) *Cladopodiella* statt *Cladopus*. Memoranda Societatis pro Fauna et Flora Fennica 1: 89–90.
- Buch H (1928) Die Scapanien Nordeuropas und Sibiriens – Systematischer Teil. Akademische Buchhandlung, Helsingfors, 1–177.
- Buch H (1929) Eine neue moosystematische Methodik. In: Winge Ø (Ed.) Beretning om, det 18. Skandinaviske naturforskermøde i København 26.-31. August 1929. Frederiksberg Bogtrykkeri, København, 225–229.
- Buch H (1932) Vorarbeiten zu einer Lebermoosflora Fenno-scandias. I. Ein Versuch zur Aufspaltung der Gattungen *Lophozia* Dum. und *Sphenolobus* Steph. Memoranda Societatis pro Fauna et Flora Fennica 8: 282–297.
- Buch H (1942) Vorarbeiten zur eine Lebermoosflora Fenno-Scandias. VII. Über die verwandtschaftlichen Beziehungen zwischen den Arten der Gattungen *Sphenolobus* St. sens. lat. und *Lophozia* Dum. sens. lat. Memoranda Societatis pro Fauna et Flora Fennica 17: 283–290.
- Buch H (1944) *Lophozia perssonii* Buch et S. Arnell, spec. nov. Botaniska Notiser 97: 381–387.
- Buch H (1951) *Orthocaulis cavifolius* Buch und S. Arnell, ein für die Wissenschaft neues Lebermoose. Memoranda Societatis pro Fauna et Flora Fennica 26: 71–74.
- Buch H, Persson H (1941) Bryophyten von den Azoren und Madeira. Akademische Buchhandlung, Helsingfors, 1–16.
- Buch H, Tuomikoski R (1936) *Scapania sphaerifera* spec. nova auctore Buch et Tuomikoski. Memoranda Societatis pro Fauna et Flora Fennica 11: 227–229.
- Buch H, Evans AW, Verdoorn F (1937) A preliminary check list of the hepaticae of Europe and America (north of Mexico). Annales Bryologici 10: 3–8.
- Buchbender V, Fischer E (2004) *Drepanolejeunea vandenberghenii* (Jungermanniopsida: Lejeuneaceae), a previously overlooked new species from Rwanda including comments on *D. physaefolia* and *Harpalejeunea fischeri*. Journal of Bryology 26 (4): 273–283. doi: 10.1179/174328204X19469
- Buchloh G (1961) Einige species novae und Neufunde von Moosen aus den Anden von Peru. Nova Hedwigia 3 (4): 507–516.
- Buczowska K (2010) Morphological differentiation of *Calypogeia muelleriana* (Jungermanniales, Hepaticae) in Poland. Biodiversity: Research and Conservation 17: 23–32. doi: 10.2478/v10119-010-0004-4
- Buczowska K, Bączkiewicz A (2011) New taxon of the genus *Calypogeia* (Jungermanniales, Hepaticae) in Poland. Acta Societatis Botanicorum Poloniae 80 (4): 327–333. doi: 10.5586/asbp.2011.039

- Buczowska K, Sawicki J, Szczecińska M, Rozadziński S, Rabska M, Bączkiewicz A (2011) Two morphologically distinct groups of the *Calypogeia fissa* complex were found in Europe. *Biodiversity: Research and Conservation* 23: 29–41. doi: 10.2478/v10119-011-0014-x
- Buczowska K, Sawicki J, Szczecińska M, Klama H, Bączkiewicz A (2012a) Allopolyploid speciation of *Calypogeia sphagnicola* (Jungermanniopsida, Calypogeiaceae) based on isozyme and DNA markers. *Plant Systematics and Evolution* 298 (3): 549–560. doi: 10.1007/s00606-011-0565-5
- Buczowska K, Sawicki J, Szczecińska M, Klama H, Bączkiewicz A (2012b) Isozyme and DNA markers reveal a new genetically distinct taxon of *Calypogeia sphagnicola* (Jungermanniopsida, Calypogeiaceae). *Polish Botanical Journal* 57 (1): 95–107.
- Burghardt M, Gradstein SR (2008) A revision of *Tylimanthus* (Acrobolbaceae, Marchantiophyta) in Tropical America, Africa, and Macaronesia. *Fieldiana: Botany (n.ser.)* 47: 199–210. doi: 10.3158/0015-0746-47.1.199
- Burghardt M, Gradstein SR, Váňa J (2006) Discovery of the African liverwort genus *Cephalojonesia* (Cephalozellaceae) in Mexico. *Journal of the Hattori Botanical Laboratory* 100: 35–39.
- Burrell WH (1911) *Lophozia schultzii* (Nees) Schiffn. var. nov. *laxa*. *Journal of Botany, British and Foreign* 49: 217–219.
- Campbell DH (1896) A new Californian liverwort. *Botanical Gazette* 21 (1): 9–13. doi: 10.1086/327288
- Campbell DH (1907) Studies on some Javanese Anthocerotaceae. I. *Annals of Botany, Oxford* 21 (4): 467–486.
- Campbell DH (1915) The morphology and systematic position of *Podomitrium*. *American Journal of Botany* 2 (5): 199–210. doi: 10.2307/2435241
- Campbell EO (1971) Liverworts collected in Fiji by A. C. Smith and W. Greenwood. *Journal of the Royal Society of New Zealand* 1 (1): 7–30. doi: 10.1080/03036758.1971.10419353
- Campbell EO (1982) Notes on some anthocerotae of New Zealand (3). *Tuatara* 26 (1): 20–26.
- Campbell EO (1987) *Steereomitrium minutum* gen. et sp. nov. (Calobryales). *Memoirs of the New York Botanical Garden* 45: 569–574.
- Campbell EO, Outred HA (1995) *Phaeoceros delicatus* a new species of anthocerotae from New Zealand. *New Zealand Journal of Botany* 33 (3): 285–290. doi: 10.1080/0028825X.1995.10412956
- Campelo MJA, Pôrto KC (2007) Brioflora epífita e epífila da RPPN Frei Caneca, Jaqueira, PE, Brasil. *Acta Botanica Brasilica* 21 (1): 185–192. doi: 10.1590/S0102-33062007000100017
- Cao T, Sun J, Yu J, Song G-Y (2003) *Scapania gaochii*, a new species of hepaticae from Yunnan, China. *Acta Botanica Yunnanica* 25 (5): 541–543.
- Cao T, Gao C, Sung J, Yu J, Song G-Y, Zuo B-R (2004) *Scapania macroparaphyllia*, a new species of *Scapania* (Scapaniaceae) from Xizang, China. *Acta Phytotaxonomica Sinica* 42 (2): 180–182.
- Cao T, Váňa J, Söderström L, Hagborg A, von Konrat M (2013) Notes on Early Land Plants Today. 34. Validation of *Scapania gaochii* (Scapaniaceae, Marchantiophyta). *Phytotaxa* 97 (2): 26. doi: 10.11646/phytotaxa.97.2.1

- Cargill DC, Fuhrer BA (2008) Taxonomic Studies of the Australian Anthocerotophyta II: The genus *Phaeoceros*. *Fieldiana: Botany* (n.ser.) 47: 239–253. doi: 10.3158/0015-0746-47.1.239
- Cargill DC, Milne J (2013) A new terrestrial genus and species within the aquatic liverwort family Riellaceae (Sphaerocarpaceae) from Australia. *Polish Botanical Journal* 58 (1): 71–80. doi: 10.2478/pbj-2013-0008
- Cargill DC, Scott GAM (1997) Taxonomic studies of the Australian Anthocerotales. I. *Journal of the Hattori Botanical Laboratory* 82: 47–60.
- Cargill DC, Söderström L, Hagborg A, von Konrat M (2012) Notes on Early Land Plants Today. 3. *Fossombronia ruminata* Cargill, a new name for *Fossombronia maritima* G.A.M.Scott et D.C.Pike ex Cargill, *nom. illeg.* *Phytotaxa* 65: 45.
- Cargill DC, Vella NGF, Sharma I, Miller JT (2013a) Cryptic speciation and species diversity among Australian and New Zealand hornwort taxa of *Megaceros* (Dendrocerotaceae). *Australian Systematic Botany* 26 (5): 356–377. doi: 10.1071/SB13030
- Cargill DC, Söderström L, Hagborg A, von Konrat M (2013b) Notes on Early Land Plants Today. 23. A new synonym in *Anthoceros* (Anthocerotaceae, Anthocerotophyta). *Phytotaxa* 76 (3): 48–49. doi: 10.11646/phytotaxa.76.3.11
- Carl H (1931a) Morphologische Studien an *Chiastocaulon* Carl, einer neuen Lebermoosgattung. *Flora* 126: 45–60.
- Carl H (1931b) Die Arttypen und die systematische Gliederung der Gattung *Plagiochila* Dum. *Annales Bryologici*, suppl. 2: 1–170.
- Carr DJ (1956) Contributions to Australian bryology. I. The structure, development, and systematic affinities of *Monocarpus sphaerocarpus* gen. et spec. nov. (Marchantiales). *Australian Journal of Botany* 4 (2): 175–191. doi: 10.1071/BT9560175
- Carr DJ (2004) Lejeuneaceae (Hepaticae) of Victoria; additions and a restitution. *Proceedings of the Royal Society of Victoria* 116 (2): 221–232.
- Carr DJ (2005) Two new bryophytes in Victoria. *Proceedings of the Royal Society of Victoria* 117 (2): 319–325.
- Carrington B (1863) Irish hepaticae. *Transactions of the Botanical Society of Edinburgh* 7 (3): 441–458. doi: 10.1080/03746606309467881
- Carrington B (1870) On two new British hepaticae. *Transactions of the Botanical Society of Edinburgh* 10: 378–382. doi: 10.1080/03746607009468722
- Carrington B (1881) Hepaticae. In: Lees FA (Ed.) *The London catalogue of British mosses and hepatics*, second edition, London, 21–26.
- Carrington B, Pearson WH (1878) *Hepaticae britannicae exsiccatae*, fasc. I. Manchester, no. 1–75.
- Carrington B, Pearson WH (1879) *Hepaticae britannicae exsiccatae*, fasc. II. Manchester, no. 76–150.
- Carrington B, Pearson WH (1888a) List of hepaticae collected by Mr Thomas Whitelegge in New South Wales, 1884–5. *Proceedings of the Linnean Society of New South Wales* (ser. 2) 2 (4): 1035–1060.

- Carrington B, Pearson WH (1888b) Description of new or rare Tasmanian hepaticae (collected by R.A. Bastow, Esq., F.L.S.). *Papers and Proceedings of the Royal Society of Tasmania* 1887: 1–12.
- Carrington B, Pearson WH (1889) A new hepatic. *Journal of Botany, British and Foreign* 27: 225.
- Carruthers W (1865) On the nomenclature of the British hepaticae. *Journal of Botany, British and Foreign* 3: 297–302.
- Castle H (1938) *Radula evansii*. *Annales Bryologici* 11: 37–39.
- Castle H (1959) A revision of the genus *Radula*. Part II. Subgenus *Acroradula*. Section 3. *Dichotomae*. *Journal of the Hattori Botanical Laboratory* 21: 1–52.
- Castle H (1962) A revision of the genus *Radula*. Part II. Subgenus *Acroradula*. Section 7. *Lingulatae*. *Revue Bryologique et Lichénologique* 31 (3/4): 139–151.
- Castle H (1965) A revision of the genus *Radula*. Part II. Subgenus *Acroradula*. Section 9. *Densifoliae*. *Revue Bryologique et Lichénologique* 33 (3/4): 328–398.
- Castle H (1968) *Radula floridana* sp. nov. *Revue Bryologique et Lichénologique* 36 (1/2): 1–4.
- Cavers F (1903) A new species of *Riella* (*R. capensis*) from South Africa. *Revue Bryologique* 30 (5): 81–84.
- Chang K-C (1988) Notes on the Porellaceae of China. *Bulletin of Botanical Research, Harbin* 8 (2): 43–47.
- Chang K-C, Gao C (1984) *Plantae novae hepaticarum sinarum*. *Bulletin of Botanical Research, Harbin* 4 (3): 83–99.
- Chantanaorrapint S (2009) *Phaeoceros perpusillus* (Notothyladaceae), a new species of hornwort from Thailand. *Acta Botanica Hungarica* 51 (1/2): 29–33. doi: 10.1556/ABot.51.2009.1-2.6
- Chantanaorrapint S (2014) *Notothylas irregularis* (Notothyladaceae, Anthocerotophyta), a new species of hornwort from northern Thailand. *Acta Botanica Hungarica* 56 (3/4): 269–274. doi: 10.1556/ABot.56.2014.3-4.3
- Chantanaorrapint S, Pócs T (2014) Southern Thailand bryophytes I, with description of *Cololejeunea ramromensis*. In: Telnov D (Ed.) *Biodiversity, biogeography and nature conservation in Wallacea and New Guinea, volume II*. Entomological Society of Latvia, Riga, 113–122.
- Chantanaorrapint S, Peng T, Zhu R-L (2014) Reappraisal of *Dendroceros cucullatus* (Dendrocerotaceae, Anthocerotophyta). *Phytotaxa* 167 (1): 145–149. doi: 10.11646/phytotaxa.167.1.14
- Chen P-C (1955) *Bryophyta nova sinica*. *Feddes Repertorium Specierum Novarum Regni Vegetabilis* 58: 23–52.
- Chen P-C, Wu P-C (1964) [Study on epiphyllous liverworts of China. (1)]. *Acta Phytotaxonomica Sinica* 9 (3): 213–276.
- Chen P-C, Wu P-C (1965) The preliminary study of the bryophytes of Mt. Hwangshan. In: NN (Ed.) *Observationes ad florulam Hwangshanicum*. Scientific and Technical Publishers, Shanghai, 1–59.
- Choi SS, Bakalin VA, Sun B-Y (2012) *Scapania* and *Macrodiplrophyllum* in the Russian Far East. *Botanica Pacifica* 1: 31–95. doi: 10.17581/bp.2012.01104

- Chopra RS (1943) A census catalogue of Indian hepatics. *Journal of the Indian Botanical Society* 22: 237–259.
- Churchill SP, Sanjines NN, Fuentes A, Lozano R (2008) Additions to the Bolivian bryophyte flora. *Tropical Bryology* 29: 54–59.
- Clark L (1953) Some hepaticae from Galápagos, Cocos and other Pacific coast islands. *Proceedings of the California Academy of Sciences* (ser. 4) 27 (18): 593–624.
- Clark L (1954) *Frullania armata*. *Bryologist* 57 (1): 36–39. doi: 10.2307/3240074
- Clark L, Frye TC (1952) *Frullania tunguraguana*. *Bryologist* 55 (2): 133–136. doi: 10.2307/3240201
- Clark L, Schultz MR (1953) *Frullania hamiflora*. *Bryologist* 56 (3): 180–182. doi: 10.2307/3240116
- Clark L, Svihla RD (1950) A new *Frullania* from Panama. *Bryologist* 53 (1): 63–66. doi: 10.2307/3240261
- Clark L, Jovet-Ast S, Frye TC (1947) A new *Frullania* from Guadeloupe. *Bryologist* 50 (1): 52–55. doi: 10.2307/3239584
- Colenso W (1884) A further contribution toward making known the botany of New Zealand. *Transactions and Proceedings of the New Zealand Institute* 16: 325–363.
- Colenso W (1885) A description of some newly-discovered and rare indigenous plants; being a further contribution toward making known the botany of New Zealand. *Transactions and Proceedings of the New Zealand Institute* 17: 237–265.
- Colenso W (1886a) A descriptions of some newly-discovered and rare indigenous plants. *Transactions and Proceedings of the New Zealand Institute* 18: 256–287.
- Colenso W (1886b) A description of some newly-discovered cryptogamic plants, being a further contribution towards the making known the botany of New Zealand. *Transactions and Proceedings of the New Zealand Institute* 18: 219–255.
- Colenso W (1887) A description of some newly-discovered cryptogamic plants, being a further contribution toward making known the botany of New Zealand. *Transactions and Proceedings of the New Zealand Institute* 19: 271–301.
- Colenso W (1888) On new indigenous cryptogams of the orders Lycopodiaceae, Musci and Hepaticae. *Transactions and Proceedings of the New Zealand Institute* 20: 234–254.
- Colenso W (1889) A description of some newly-discovered cryptogamic plants; being a further contribution toward making known the botany of New Zealand. *Transactions and Proceedings of the New Zealand Institute* 21: 43–80.
- Colenso W (1892) A list of new species of hepaticae Novae Zealandiae, named by F. Stephani, Leipzig. *Transactions and Proceedings of the New Zealand Institute* 24: 398–400.
- Cooke CM (1904) The Hawaiian hepaticae of the tribe Trigonantheae. *Transactions of the Connecticut Academy of Arts and Sciences* 12 (1): 1–44.
- Cooper ED (2013) Notes on Early Land Plants Today. 37. Towards a stable, informative classification of the Lepidoziaceae (Marchantiophyta). *Phytotaxa* 97 (2): 44–51. doi: 10.11646/phytotaxa.97.2.4
- Cooper ED, Renner MAM (2014) *Lepidozia bragginsiana*, a new species from New Zealand. *Phytotaxa* 173 (2): 117–126. doi: 10.11646/phytotaxa.173.2.2

- Cooper ED, Shaw AJ, Shaw B, Henwood MJ, Heslewood MM, Brown EA (2011) A multi-locus molecular phylogeny of the Lepidoziaceae: Laying the foundations for a stable classification. *Molecular Phylogenetics and Evolution* 59 (2): 489–509. doi: 10.1016/j.ympev.2011.02.006
- Cooper ED, Henwood MJ, Brown EA (2012a) A molecular phylogeny of the *Lepidozia* generic complex supports re-circumscription of the Lepidozioideae. *Molecular Phylogenetics and Evolution* 65 (1): 10–22. doi: 10.1016/j.ympev.2012.05.008
- Cooper ED, Henwood MJ, Brown EA (2012b) Are the liverworts really that old? Cretaceous origins and Cenozoic diversifications in Lepidoziaceae reflect a recurrent theme in liverwort. *Journal of the Linnean Society. Biology* 107 (2): 425–441. doi: 10.1111/j.1095-8312.2012.01946.x
- Cooper ED, Söderström L, Hagborg A, von Konrat MJ (2013) Notes on Early Land Plants Today. 38. New combinations and synonyms in Lepidoziaceae (Marchantiophyta). *Phytotaxa* 97 (2): 52–62. doi: 10.11646/phytotaxa.97.2.5
- Cooper ED, Söderström L, Hagborg A, von Konrat M (2014) Notes on Early Land Plants Today. 54. A transfer in Lepidoziaceae (Marchantiophyta). *Phytotaxa* 167 (2): 218–219. doi: 10.11646/phytotaxa.167.2.13
- Corbière L (1912) Nouvelles muscinées de l’Afrique tropicale. *Bulletin du Muséum National d’Histoire Naturelle* 18 (2): 108–121.
- Corda AJC (1829) Genera Hepaticarum. In: Opiz PM (Ed.) Beiträge zur Naturgeschichte als Fortsetzung des Naturalientausches No. 12. C.W. Enders, Praha, 643–655.
- Corda AJC (1830) Deutschlands Jungermannien, Heft 19–20. In: Sturm J (Ed.) Deutschlands Flora in Abbildungen nach der Natur mit Beschreibungen. Abtheilung II Cryptogamie. Privately published by author, Nürnberg, 1–62.
- Costa DP (2008) Metzgeriaceae. *Flora Neotropica, Monograph* 102: 1–169.
- Costa DP (2009) Crittogame brasiliane, a review of Guisepe Raddi bryophyte collections in the state of Rio de Janeiro. *Journal of Bryology* 31 (4): 222–233. doi: 10.1179/037366809X12495600997402
- Costa DP, Gradstein SR (2000) On the status of *Metzgeria angusta*, a poorly known neotropical taxon. *Bryologist* 103 (4): 757–759. doi: 10.1639/0007-2745(2000)103[0757:OTSOMA]2.0.CO;2
- Costa DP, Santos ND, Váňa J (2008) A new species of *Cylindrocolea* (Cephaloziellaceae) from Brazil. *Bryologist* 111 (4): 667–669. doi: 10.1639/0007-2745-111.4.667
- Coulter JM, Barnes CR, Arthur JC (1890) General index. *Botanical Gazette* 15 (12): 347–352.
- Coxson DS (1991) Nutrient release from epiphytic bryophytes in tropical montane rain forest (Guadeloupe). *Canadian Journal of Botany* 69 (10): 2122–2129. doi: 10.1139/b91-266
- Crandall-Stotler BJ, Stotler RE (2000) Morphology and classification of the Marchantiophyta. In: Shaw AJ, Goffinet B (Eds) *Bryophyte biology*. Cambridge University Press, Cambridge, 21–70. doi: 10.1017/cbo9781139171304.003
- Crandall-Stotler BJ, Stotler RE (2007) On the identity of *Moerckia hibernica* (Hook.) Gottsche (Moerckiaceae fam. nov., Marchantiophyta). *Beihefte zur Nova Hedwigia* 131: 41–59.
- Crandall-Stotler BJ, Stotler RE, Ford CH (2002) Contributions toward a monograph of *Petalophyllum* (Marchantiophyta). *Novon* 12 (3): 334–337. doi: 10.5962/bhl.title.744

- Crandall-Stotler BJ, Stotler RE, Doyle WT, Forrest LL (2008a) *Phaeoceros proskaueri* sp. nov., a new species of the *Phaeoceros hallii* (Austin) Prosk. –*Phaeoceros pearsonii* (M. Howe) Prosk. complex and the systematic affinities of *Paraphymatoceros* Häs. Fieldiana: Botany (n.ser.) 47: 213–238. doi: 10.3158/0015-0746-47.1.213
- Crandall-Stotler BJ, Stotler R, Long DG (2008b) Morphology and classification of the Marchantiophyta. In: Goffinet B, Shaw J (Eds) *Bryophyte Biology*, 2nd ed. Cambridge University Press, Cambridge, 1–54.
- Crandall-Stotler BJ, Stotler RE, Long DG (2009) Phylogeny and classification of the Marchantiophyta. *Edinburgh Journal of Botany* 66 (1): 155–198. doi: 10.1017/S0960428609005393
- Crandall-Stotler BJ, Stotler R, Zhang L, Forrest L (2010) On the morphology, systematics and phylogeny of *Noteroclada* (Noterocladaceae, Marchantiophyta). *Nova Hedwigia* 91 (3/4): 421–450. doi: 10.1127/0029-5035/2010/0091-0421
- Crandall-Stotler BJ, Stotler R, Bakalin VA, Doyle WT (2013) A new species of *Mesoptychia* (Lindb.) A. Evans from California. *Polish Botanical Journal* 58 (1): 81–89. doi: 10.2478/pbj-2013-0009
- Crane PR (2004) Documenting plant diversity: unfinished business. *Philosophical Transactions of the Royal Society of London. Series B* 359 (1444): 735–737. doi: 10.1098/rstb.2003.1441
- Crantz D (1770) *Fortsättning af historien om Grönland*. Johan Georg Lange, Stockholm, 380 pp. (non vidi)
- Cremer KW, Mount AB (1965) Early stages of plant succession following the complete felling and burning of *Eucalyptus regnans* forest in the Florentine Valley, Tasmania. *Australian Journal of Botany* 13 (2): 303–322. doi: 10.1071/BT9650303
- Cronquist A (1988) Schuster and Wallace's line. *Beihefte zur Nova Hedwigia* 90: 39–40.
- Crosby MR, Engel JJ (2006) *Index of hepatics 1974–2000*. Hattori Botanical Laboratory, Nichinan, 368 pp.
- Crosby MR, Magill RE (2005) *Index of bryophytes 2001–2004*. Missouri Botanical Garden, St. Louis, 31 pp.
- Crosby MR, Magill RE (2006) *Index of bryophytes 2005*. Missouri Botanical Garden, St. Louis, 12 pp.
- Crozals A (1903a) Flore bryologique de Roquehaute (Hérault). *Revue Bryologique* 30 (2): 17–32.
- Crozals A (1903b) *Riccia subbifurca* Warn., in litt. *Revue Bryologique* 30 (4): 62–64.
- Crum HA, Bruce J (1996) A new species of *Cryptothallus* from Costa Rica. *Bryologist* 99 (4): 433–438. doi: 10.2307/3244107
- Crundwell AC (1970) *Herberta borealis*, a new species from Scotland and Norway. *Transactions of the British Bryological Society* 6 (1): 41–49. doi: 10.1179/006813870804146464
- Cufodontis G (1952) *Enumeratio plantarum aethiopiae, II* (Bryophyta: Hepaticae). *Phyton* (Horn) 4: 72–82.
- Dabhade GT, Hasan A (1986) New species of *Riccia* – *Riccia indira-gandhiensis* sp. nov. *Journal of the Bombay Natural History Society* 83 (2): 398–401.
- Damsholt K (2002) *Illustrated flora of Nordic liverworts and hornworts*. Nordic Bryological Society, Lund, 837 pp.
- Damsholt K, Hallingbäck T (1986) *Riccia gothica*, a new species of hepaticae from Sweden. *Lindbergia* 12 (2/3): 100–102.

- Damsholt K, Váňa J (1977) The genus *Jungermannia* L. emend. Dumort. (Hepaticae) in Greenland. *Lindbergia* 4 (1/2): 1–26.
- Daniels AED, Daniel P (2002) Two new species of *Riccia* L. (Hepaticae: Marchantiales) from the Western Ghats of Tamil Nadu. *Bulletin of the Botanical Survey of India* 44 (1/4): 135–140.
- Daniels AED, Daniel P (2007) Name changes in two Indian liverworts. *Bulletin of the Botanical Survey of India* 49 (1/4): 231–232.
- Daniels AED, Daniel P (2013) The bryoflora of the southernmost Western Ghats, India. Bishen Singh Madendra Pal Singh, Dehra Dun, 352 pp.
- Das S, Singh DK (2008) *Leptolejeunea arunachalensis* (Lejeuneaceae, Hepaticae) – a new species from India. *Journal of Japanese Botany* 83 (6): 343–346.
- Das S, Singh DK (2011) A new species of *Calyptogeia* Raddi (Marchantiophyta : Calypogeiaceae) from Eastern Himalaya, India. *Nelumbo* 53: 194–196.
- Dauphin G (2003) The genus *Ceratolejeunea* Jack & Steph. (Hepaticae: Lejeuneaceae) in Tropical America. *Flora Neotropica, Monograph* 90: 1–86.
- Dauphin G (2005) Catalogue of Costa Rican hepaticae and anthocerotae. *Tropical Bryology* 26: 141–218.
- Dauphin G, Gradstein SR (2003) A new species of *Cheilolejeunea* (Spruce) Schiffn. from Panamá. *Journal of Bryology* 25 (4): 259–261. doi: 10.1179/037366803225013128
- Dauphin G, Pócs T, Villarreal JC, Salazar N (2006) Nuevos registros de hepáticas y anthocerotófitas para Panamá. *Tropical Bryology* 27: 73–85.
- Dauphin G, Morales T, Moreno EJ (2008) Catálogo preliminar de Lejeuneaceae (Hepaticae) de Venezuela. *Cryptogamie, Bryologie* 29 (3): 215–265.
- Davis EC (2004) A molecular phylogeny of leafy liverworts (Jungermanniidae: Marchantiophyta). *Monographs in Systematic Botany from the Missouri Botanical Garden* 98: 61–86.
- De Candolle A-P, Lamarck JBAP (1815) *Flore française, tome cinquième, ou sixième volume*. Desray, Paris, 662 pp.
- De Lucia EH, Turnbull MH, Walcroft AS, Griffen KL, Tissue DT, Glenn D, McSeveny TM, Whitehead D (2003) The contribution of bryophytes to the carbon exchange for a temperate rainforest. *Global Change Biology* 9 (8): 1158–1170. doi: 10.1046/j.1365-2486.2003.00650.x
- De Notaris G (1838) *Primitiae hepaticologiae italicae*. Memorie della reale accademia delle scienze di Torino (ser. 2) 1: 287–354.
- De Notaris G (1857) *Jungermanniearum americanarum pugillus*. Memorie della reale accademia delle scienze di Torino (ser. 2) 16: 211–238.
- De Notaris G (1859) *Appunti per un nuovo censimento delle epatiche italiane*. Memorie della reale accademia delle scienze di Torino (ser. 2) 18: 457–498.
- De Notaris G (1874) *Epatiche di Borneo*. Stamperia reale di G. B. Paravia E. C., Torino, 42 pp.
- de Roo RT, Hedderson TA, Söderström L (2007) Molecular insights into the phylogeny of the leafy liverwort family Lophoziaaceae Cavers. *Taxon* 56 (2): 301–314.
- Del Rosario RM (1971) New and noteworthy Philippine liverworts, II. *Philippine Journal of Science* 100 (3/4): 227–242.

- Del Rosario RM (1977) Philippine liverworts. III. Calobryales and Herbertales of the Philippines. *Philippine Journal of Science* 104 (3/4): 93–209.
- Demaret F, Vanden Berghen C (1950) Révision de quelques espèces africaines du genre *Frullania* Raddi, sous-genre *Meteoriopsis* Spruce. *Bulletin du Jardin Botanique de l'État, Bruxelles* 20 (1): 1–10. doi: 10.2307/3666581
- Devos N, Renner MAM, Gradstein SR, Shaw AJ, Vanderpoorten A (2011) Molecular data challenge traditional subgeneric divisions in the leafy liverwort *Radula*. *Taxon* 60 (6): 1623–1632.
- Dey M, Singh DK (2008) *Frullania pran-nathii* – a new epiphyllous liverwort from Darjeeling, India. *Journal of Japanese Botany* 83 (5): 280–283.
- Dey M, Singh DK (2010) Two new epiphyllous *Leptolejeunea* (Hepaticae: Lejeuneaceae) from Eastern Himalaya, India. *Taiwania* 55 (4): 355–362.
- Dey M, Singh DK (2011) A new *Lopholejeunea* (Spruce) Schiffn. (Hepaticae: Lejeuneaceae) from India. *Nelumbo* 53: 197–200.
- Dey M, Singh DK, Singh D (2008) Two new species of *Lejeunea* Lib. (Hepaticae: Lejeuneaceae) from Sikkim, India. *Journal of Bryology* 30 (2): 126–132. doi: 10.1179/174328208X300651
- Dickson J (1785) *Fasciculus plantarum cryptogamicarum britanniae*. G. Nichol, London, 26 pp.
- Dickson J (1790) *Fasciculus secundus plantarum cryptogamicarum britanniae*. G. Nichol, London, 31 pp.
- Dickson J (1793) *Fasciculus tertius plantarum cryptogamicarum britanniae*. G. Nichol, London, 24 pp.
- Dickson J (1801) *Fasciculus quartus plantarum cryptogamicarum britanniae*. G. Nichol, London, 28 pp.
- Dixon HN, Schiffner V, Verdoorn, F (1932) *Bryophyta nova* (1–5). *Annales Bryologici* 5: 157–164.
- Doei H (1987) A new species of *Lepidozia* (Hepaticae) from Seram Island, Indonesia. *Journal of the Hattori Botanical Laboratory* 63: 421–424.
- Dong S, Schäfer-Verwimp A, Meinecke P, Feldberg K, Bombosch A, Pócs T, Schmidt AR, Reitner J, Schneider H, Heinrichs J (2012) Tramps, narrow endemics and morphologically cryptic species in the epiphyllous liverwort *Diplasiolejeunea*. *Molecular Phylogenetics and Evolution* 65 (2): 582–594. doi: 10.1016/j.ympev.2012.07.009
- Dong S, Schäfer-Verwimp A, Pócs T, Feldberg K, Czumaj A, Schmidt AR, Schneider H, Heinrichs J (2013) Size doesn't matter – recircumscription of *Microlejeunea* (Lejeuneaceae, Porellales) based on molecular and morphological evidence. *Phytotaxa* 85 (2): 41–55. doi: 10.11646/phytotaxa.85.2.2
- Douin C (1903) *Le Sphaerocarpus terrestris* Sm. *Revue Bryologique* 30 (3): 44–57.
- Douin C (1913a) *Cephaloziella obtusa* P. Culmann sp. nov. *Revue Bryologique* 40 (5): 65–71.
- Douin C (1913b) L'inflorescence des Céphaloziellacées. *Revue Bryologique* 40 (6): 81–87.
- Douin C (1914) Les mélanges d'espèces chez les Céphaloziellacées. *Revue Bryologique* 41 (1): 1–8.
- Douin C (1920) La famille des Céphaloziellacées. *Mémoires de la Société Botanique de France* 29: 1–90.
- Douin C, Trabut ML (1919) Deux hépatiques peu connues. *Revue Générale de Botanique* 31: 321–328.

- Drège JF (1843) Alphabetisches Verzeichniss der von I. F. Drège in Südafrika gesammelten Pflanzen, nebst Angabe der Fundorte. *Flora*, Beigabe 26: 161–230.
- Duda J (1970) *Lophozia* (subgenus *Leiocolea*) *mamatkulovii* Duda sp. nov. von Pamir (SSSR). *Transactions of the British Bryological Society* 6 (1): 82–85. doi: 10.1179/006813870804146428
- Duff RJ, Villarreal JC, Cargill DC, Renzaglia KS (2007) Progress and challenges toward developing a phylogeny and classification of the hornworts. *Bryologist* 110 (2): 214–243. doi: 10.1639/0007-2745(2007)110[214:PACTDA]2.0.CO;2
- Dugas M (1928) Contribution à l'étude du genre *Plagiochila* Dum. Masson et Cie, Paris, 1–199.
- Dumortier BCJ (1822) *Commentationes botanicae*. Ch. Casterman-Dien, Tournay, 118 pp. doi: 10.5962/bhl.title.10534
- Dumortier BCJ (1831) *Sylloge Jungermannidearum Europae indigenarum*. J. Casterman, Tournay, 100 pp. doi: 10.5962/bhl.title.22343
- Dumortier BCJ (1835) *Recueil d'Observations sur les Jungermanniacées*. J.-A. Blanquart, Tournay, 27 pp. doi: 10.5962/bhl.title.731
- Dumortier BCJ (1874) *Jungermannideae Europae*. *Bulletin de la Société Royale de Botanique de Belgique* 13: 5–203.
- Duss A (1903) Énumération méthodique des muscinées des Antilles françaises. I. – Hépatiques. Lucien Declume, Lons-le-Saunier, 41 pp.
- Duthie AV, Garside S (1936) *Studies in South African Ricciaceae I. Three annual species: R. plana* Taylor, *R. cupulifera* sp. nov., and *R. Curtisii* T. P. James. *Transactions of the Royal Society of South Africa* 24 (2): 93–133. doi: 10.1080/00359193609520543
- Duthie AV, Garside S (1939) *Studies in South African Ricciaceae II. The annual species of the section Ricciella (concluded): R. compacta* sp. nov., and *R. Rautanenii* Steph. *Transactions of the Royal Society of South Africa* 27 (1): 17–28. doi: 10.1080/00359193909519784
- Ehrhart JF (1783) *Meine Reise nach der Grafschaft Bentheim, un von da nach Holland, nebst der Retour nach Herrenhausen (Fortsetzung)*. *Hannoverisches Magazin* 21 (18): 273–288.
- Ehrhart JF (1784) *Botanische Bemerkungen*. *Hannoverisches Magazin* 22 (8): 113–144.
- Ehrhart JF (1789) *Kennzeichen seltener und unbestimmter Pflanzen*. *Beiträge zur Naturkunde (Ehrhart)* 4: 42–47. doi: 10.5962/bhl.title.44806
- Eifrig H (1937) *Monographische Studien über die indomalayischen Arten von Taxilejeunea*. Friedrich-Schiller-Universität, Jena, 73–114.
- Elfving F (1876) *Sällskapet pro Fauna et Flora Fennica sammanträde den 6 dennes*. *Morgonbladet (Helsinki)* 1876 (106, 9 May): 1.
- Endlicher SFL (1833) *Prodromus florae Norfolkicae*. Friedrich Beck Universitatis Bibliopolam, Vindobonae [Wien], 100 pp. doi: 10.5962/bhl.title.6703
- Engel JJ (1968) *A taxonomic monograph of the genus Balantiopsis (Hepaticae)*. *Nova Hedwigia* 16: 83–130.
- Engel JJ (1972) *Chiloscyphus hookeri* n. sp. and nomenclatural changes in the genus *Clasmatocolea*. *Journal of the Hattori Botanical Laboratory* 36: 150–156.

- Engel JJ (1975) Hepaticae and anthocerotae collected by Dr. Harold E. Moore, Jr. in New Caledonia, Seychelles, Mauritius and Reunion in 1972. *Bryologist* 78 (3): 361–362. doi: 10.2307/3241895
- Engel JJ (1976a) The southern South American hepaticae and anthocerotae collected by H. Roivainen in 1969–1970, with new taxa and notes on range extensions. *Annales Botanici Fennici* 13 (3): 132–136.
- Engel JJ (1976b) Austral hepaticae. VI. Some new species and new combinations of taxa from southern Chile. *Bryologist* 79 (4): 514–515. doi: 10.2307/3241949
- Engel JJ (1978) A taxonomic and phytogeographic study of Brunswick Peninsula (Strait of Magellan) Hepaticae and Anthocerotae. *Fieldiana: Botany* 41: 1–319. doi: 10.5962/bhl.title.2426
- Engel JJ (1979a) Austral hepaticae. XI. Lophocoleaceae: new taxa, new combinations and realignments. *Phytologia* 41 (5): 309–312.
- Engel JJ (1979b) Austral hepaticae. X. A revision of *Hepatostolonophora* Engel et Schust., nom. nov. (Hepaticae). *Journal of the Hattori Botanical Laboratory* 46: 91–108.
- Engel JJ (1980a) A monograph of *Clasmatocolea* (Hepaticae). *Fieldiana: Botany (n.ser.)* 3: 1–229.
- Engel JJ (1980b) Austral hepaticae. XII. A new species of *Clasmatocolea* (Hepaticae) from Tasmania. *Bryologist* 83 (2): 220–223. doi: 10.2307/3242138
- Engel JJ (1981) *Haplomitrium monoicum*, a remarkable new species of Calobryales (Hepaticae) from New Caledonia, together with a reclassification of subg. *Haplomitrium*. *Annals of the Missouri Botanical Garden* 68 (4): 668–676. doi: 10.2307/2398895
- Engel JJ (1990a) Studies on Geocalycaceae (Hepaticae). I. The taxonomic position of *Chiloscyphus amplexans* (Mitt.) Engel & Schust. together with refinement in *Heteroscyphus* Schiffn. *Journal of the Hattori Botanical Laboratory* 68: 303–315.
- Engel JJ (1990b) Falkland Islands (Islas Malvinas) hepaticae and Anthocerotophyta: A taxonomic and phytogeographic study. *Fieldiana: Botany (n.ser.)* 25: 1–209.
- Engel JJ (1991a) Studies on Geocalycaceae (Hepaticae). II. *Stolonivector*, a new genus from New Zealand. *Journal of the Hattori Botanical Laboratory* 69: 79–86.
- Engel JJ (1991b) Studies on Geocalycaceae (Hepaticae). VI. Comments on *Leptoscyphus* in Australasia, together with refinements in *Clasmatocolea*. *Bryologist* 94 (4): 435–437. doi: 10.2307/3243840
- Engel JJ (1991c) Studies on Geocalycaceae (Hepaticae). IV. *Lamellocolea*, a new genus of Lepatoscyphoideae from New Zealand. *Journal of the Hattori Botanical Laboratory* 70: 63–78.
- Engel JJ (1993) Studies on Geocalycaceae. IX. *Chiloscyphus hattorii* Engel, a new species from New Zealand, together with nomenclatural refinements in Australasian *Heteroscyphus* and *Leptoscyphus*. *Journal of the Hattori Botanical Laboratory* 74: 29–33.
- Engel JJ (1997) Studies on Geocalycaceae (Hepaticae). X. New taxa and new combinations in *Chiloscyphus* Corda for Australasia. *Phytologia* 83 (1): 42–46.
- Engel JJ (1999a) Austral hepaticae. 26. The identity, taxonomic position, and ecology of *Trichocolea julacea* Hatcher (Trichocoleaceae). *Novon* 9 (1): 25–28. doi: 10.5962/bhl.title.744
- Engel JJ (1999b) Austral hepaticae. 30. A critical new species of *Triandrophyllum* (Herbertaceae) from New Zealand. *Haussknechtia, Beiheft* 9: 115–120.

- Engel JJ (2001) Studies on Geocalycaceae. XII. *Heteroscyphus mononucleus* Engel, a new species of hepaticae from New Zealand. *Journal of the Hattori Botanical Laboratory* 90: 241–244.
- Engel JJ (2003) Studies on Geocalycaceae (Hepaticae). XIII. The genus *Stolonivector* Engel, including a new species from New Zealand. *Journal of the Hattori Botanical Laboratory* 93: 69–77.
- Engel JJ (2004a) Austral hepaticae. 36. A new species of *Lepidozia* from New Zealand, together with an assessment of subg. *Austrolepidozia* (Schust.) Schust. *Journal of the Hattori Botanical Laboratory* 96: 273–279.
- Engel JJ (2004b) Studies on Geocalycaceae. XV. *Chiloscyphus aperticaulis* Engel, an interesting new species of hepaticae from New Zealand. *Journal of the Hattori Botanical Laboratory* 95: 229–234.
- Engel JJ (2005) Austral hepaticae. 39. *Kurzia moniliformis*, an interesting new species of Hepaticae from New Zealand, belonging to a new section, *Kurzia* sect. *Moniliformes* Engel. *Cryptogamie, Bryologie* 26 (1): 73–78.
- Engel JJ (2006a) Austral hepaticae. 42. The austral species of *Mnioloma* (Calypogeiaceae), together with a new species, *Mnioloma novaezelandiae* n. sp. *Cryptogamie, Bryologie* 27 (1): 111–117.
- Engel JJ (2006b) Austral hepaticae. 40. *Tritomaria* (Jungermanniaceae subfam. Lophozioideae) new to the south temperate, together with a new subspecies, *T. exsecta* subsp. *novaezelandiae* subsp. nov. *Bryologist* 109 (1): 60–67. doi: 10.1639/0007-2745(2006)109[0060:AH TJSJ]2.0.CO;2
- Engel JJ (2006c) Austral hepaticae. 41. *Bazzania exempta* Engel, an interesting new species from New Zealand, belonging to a new section, *Bazzania* sect. *Exemptae* Engel. *Journal of the Hattori Botanical Laboratory* 99: 197–205.
- Engel JJ (2007) Studies of New Zealand hepaticae. 20–38. A miscellanea of new taxa and combinations. *Novon* 17 (3): 310–314. doi: 10.3417/1055-3177(2007)17[310:SONZHA]2.0.CO;2
- Engel JJ (2009) Studies on Lophocoleaceae (Hepaticae). XVIII. *Stolonivector* Engel in New Zealand, including two new species, together with comments on generic endemism of austral hepaticae. *Nova Hedwigia* 88 (3/4): 335–346. doi: 10.1127/0029-5035/2009/0088-0335
- Engel JJ (2010) Austral hepaticae. 45. A Monograph of the Genus *Chiloscyphus* Corda (Lophocoleaceae) for Australasia. *Fieldiana: Botany (n.ser.)* 48: 1–209. doi: 10.3158/0015-0746-48.1.1
- Engel JJ (2011) Studies of New Zealand hepaticae. 56–68. A miscellanea of new taxa and combinations. *Nova Hedwigia* 93 (3/4): 401–410. doi: 10.1127/0029-5035/2011/0093-0401
- Engel JJ (2013a) Austral hepaticae 50. *Gackstroemia* in New Zealand, together with an interesting new species. *Phytotaxa* 118 (1): 9–21. doi: 10.11646/phytotaxa.118.1.2
- Engel JJ (2013b) Studies on Lophocoleaceae XXII. New taxa and combinations in New Zealand *Heteroscyphus* Schiffn. *Polish Botanical Journal* 58 (1): 95–106. doi: 10.2478/pbj-2013-0011
- Engel JJ (2014) Studies on Lophocoleaceae XXIII. Novelties in *Heteroscyphus* Schiffn. together with refinements in *Cryptolophocolea* L.Söderstr., Crand.-Stotl., Stotler & Váňa and *Lep-toscyphus* Mitt. *Nova Hedwigia* 99 (1/2): 157–170. doi: 10.1127/0029-5035/2014/0208
- Engel JJ (2015a) Studies on Lophocoleaceae. XXV. A conspectus of *Heteroscyphus* Schiffn. in temperate Australasia together with nomenclatural changes in *Chiloscyphus* Corda and

- Leptoscyphus* Mitt., refinements and a range extension in *Clasmatocolea* Spruce, and a range extension in *Stolonivector* J.J.Engel. Nova Hedwigia 100 (3/4): 553–582. doi: 10.1127/nova_hedwigia/2015/0260
- Engel JJ (2015b) Studies on Lophocoleaceae. XXIV. *Chiloscyphus alpicola* J.J.Engel, an interesting new liverwort species from New Zealand together with nomenclatural changes in *Tetracymbaliella* Grolle. Phytotaxa 207 (2): 181–186. doi: 10.11646/phytotaxa.207.2.4
- Engel JJ, Braggins JE (1998) Austral hepaticae. 27. The genus *Anastrophyllum* (Spruce) Steph. (Jungermanniales) in Australasia, with a synopsis of austral taxa. Journal of Bryology 20 (2): 371–388. doi: 10.1179/jbr.1998.20.2.371
- Engel JJ, Glenn DS (2007) Austral hepaticae. 43. *Castanoclobos*, a new genus of Trichocoleaceae from New Zealand. Novon 17 (4): 424–428. doi: 10.3417/1055-3177(2007)17[424:AH-CANG]2.0.CO;2
- Engel JJ, Glenn DS (2008a) A flora of the liverworts and hornworts of New Zealand, Volume 1. Missouri Botanical Garden, St. Louis, 897 pp.
- Engel JJ, Glenn DS (2008b) Studies on Lophocoleaceae. XVI. *Chiloscyphus anisobus*, an interesting new species from New Zealand. Bryologist 111 (1): 118–123. doi: 10.1639/0007-2745(2008)111[118:SOLXCA]2.0.CO;2
- Engel JJ, Glenn DS (2008c) Austral hepaticae. 44. A revision of *Marsupidium* Mitt. for New Zealand. Nova Hedwigia 87 (3/4): 277–313. doi: 10.1127/0029-5035/2008/0087-0277
- Engel JJ, Glenn DS (2011) Studies on Lophocoleaceae. XX. A new species of *Lamellocolea* J. J. Engel from New Zealand. Bryologist 114 (1): 23–27. doi: 10.1639/0007-2745-114.1.23
- Engel JJ, Glenn DS (2012) Austral hepaticae. 48. *Goebelobryum* Grolle (Acrobolbaceae). Nova Hedwigia 95 (3/4): 319–336. doi: 10.1127/0029-5035/2012/0066
- Engel JJ, Gradstein SR (2003) Studies in Geocalycaceae XIV. *Physotheca* J. J. Engel & Gradst., a new genus of hepaticae from Ecuador, belonging to a new subfamily, Geocalycaceae subfam. Physothecoideae J. J. Engel & Gradst. Taxon 52 (4): 763–773. doi: 10.2307/3647350
- Engel JJ, Grolle R (1971) *Marsupidium* in South America. Journal of the Hattori Botanical Laboratory 34: 437–444.
- Engel JJ, He X (2010) Studies on Lophocoleaceae. XIX. The systematic identity of *Cyanolophocolea* R. M. Schust., an intriguing liverwort from New Zealand and Australia, based on morphological and molecular evidence. Bryologist 113 (1): 149–163. doi: 10.1639/0007-2745-113.1.149
- Engel JJ, Heinrichs J (2008) Studies of New Zealand hepaticae. 39. *Dinckleria* Trevis. an older name for *Proskauera* Heinrichs and J.J.Engel. Cryptogamie, Bryologie 29 (2): 193–194.
- Engel JJ, Kuwahara Y (1973) *Metzgeria litoralis* sp. nov. and *Apometzgeria* from southern South America. Bryologist 76 (2): 293–296. doi: 10.2307/3241332
- Engel JJ, Schuster RM (1975) Austral hepaticae. III. *Stolonophora*, a new genus of Geocalycaceae. Fieldiana: Botany 36 (11): 111–124.
- Engel JJ, Schuster RM (1981) Austral hepaticae. XV. Brevianthaceae, fam. nov. and *Brevianthus*, gen. nov. from Tasmania. Phytologia 47 (4): 317–318.
- Engel JJ, Schuster RM (1983) Austral hepaticae. XVIII. Studies towards a revision of *Telaranea* subg. *Neolepidozia* (Lepidoziaceae). Fieldiana: Botany (n.ser.) 14: 1–7.

- Engel JJ, Schuster RM (1984) An overview and evaluation of the genera of Geocalyceace subfamily Lophocoloideae (Hepaticae). *Nova Hedwigia* 39: 385–463.
- Engel JJ, Schuster RM (1988) Studies of New Zealand hepaticae. 1-6. *Brittonia* 40 (2): 200–207. doi: 10.2307/2807005
- Engel JJ, Schuster RM (2001) Austral hepaticae. 32. A revision of the genus *Lepidozia* (Hepaticae) for New Zealand. *Fieldiana: Botany (n.ser.)* 42: 1–107.
- Engel JJ, Smith Merrill GL (1994) Studies of New Zealand hepaticae. 8-13. *Bazzania* and *Acromastigum*. *Bryologist* 97 (3): 313–320. doi: 10.2307/3243464
- Engel JJ, Smith Merrill GL (1995) Austral hepaticae. 23. New taxa and new combinations in *Telaranea* Spruce ex Schiffn. (Lepidoziaceae). *Phytologia* 79 (3): 250–253.
- Engel JJ, Smith Merrill GL (1996) Studies of New Zealand hepaticae. 14-19. *Kurzia* and *Lepicolea*. *Journal of the Hattori Botanical Laboratory* 80: 217–231.
- Engel JJ, Smith Merrill GL (1997) Austral hepaticae. 22. The genus *Balantiopsis* in New Zealand, with observations on extraterritorial taxa and a phylogeny of *Balantiopsis* and the family Balantiopsaceae (Jungermanniales). *Fieldiana: Botany (n.ser.)* 37: 1–62.
- Engel JJ, Smith Merrill GL (1998) Austral hepaticae. 25. *Krunodiplophyllum* Grolle and a revision of the Australasian species of *Diplophyllum* (Dum.) Dum. (Scapaniaceae, Jungermanniales). *Journal of the Hattori Botanical Laboratory* 84: 241–283.
- Engel JJ, Smith Merrill GL (1999a) Austral hepaticae. 29. More new taxa and combinations in *Telaranea* (Lepidoziaceae) and a new name for *Frullania caledonica* (Schust.) Schust. (Frullaniaceae) from New Caledonia. *Novon* 9 (3): 339–344. doi: 10.5962/bhl.title.744
- Engel JJ, Merrill GL (1999b) Austral hepaticae. 28. *Plagiochila bazzanioides* Engel & Merrill, a remarkable new species of Plagiochilaceae from New Zealand. *Novon* 9 (1): 29–31. doi: 10.5962/bhl.title.744
- Engel JJ, Smith Merrill GL (2001) Austral hepaticae. 33. *Paracromastigum succulentum*, comb. nov. (Lepidoziaceae, Jungermanniales). *Bryologist* 104 (1): 151–153. doi: 10.1639/0007-2745(2001)104[0151:AHPSCN]2.0.CO;2
- Engel JJ, Smith Merrill GL (2004) Austral hepaticae. 35. A taxonomic and phylogenetic study of *Telaranea* (Lepidoziaceae), with a monograph of the genus in temperate Australasia and commentary on extra-Australasian taxa. *Fieldiana: Botany (n.ser.)* 44: 1–265. doi: 10.3158/0015-0746(2004)44[1:AHATAP]2.0.CO;2
- Engel JJ, Smith Merrill GL (2009) Austral hepaticae. 46. The identity of *Plagiochila retrospectans* (Nees ex Spreng.) Lindenb. and *P. fuscella* (Hook.f. & Taylor) Gottsche, Lindenb. & Nees, two misunderstood Australasian species. *Nova Hedwigia* 89 (3/4): 287–301. doi: 10.1127/0029-5035/2009/0089-0287
- Engel JJ, Smith Merrill GL (2010) Studies on New Zealand hepaticae. 39-55. More new taxa, combinations, typifications and synonymy in *Plagiochila* from New Zealand (Plagiochilaceae). *Nova Hedwigia* 91 (3/4): 501–517. doi: 10.1127/0029-5035/2010/0091-0501
- Engel JJ, Smith Merrill GL (2013) Austral hepaticae. 49. New section names and synonymy in *Plagiochila*, with reference to New Zealand species [Plagiochilaceae (Jörg.) K. Müll.]. *Nova Hedwigia* 96 (3/4): 399–408. doi: 10.1127/0029-5035/2013/0085

- Engel JJ, Bardat J, Thouvenot L (2012) Studies on Lophocoleaceae. XXI. *Otoscyphus* J.J.Engel, Bardat et Thouvenot, a new liverwort genus from New Caledonia with an unusual morphology. *Cryptogamie, Bryologie* 33 (3): 279–289. doi: 10.7872/cryb.v33.iss3.2012.279
- Engel JJ, Váña J, Söderström L, Hagborg A, von Konrat M (2014) Notes on Early Land Plants Today. 64. Nomenclatural notes in Balantiopsaceae. *Phytotaxa* 183 (4): 299–300. doi: 10.11646/phytotaxa.183.4.13
- Evans AW (1891) A provisional list of the hepaticae of the Hawaiian Islands. *Transactions of the Connecticut Academy of Arts and Sciences* 8 (15): 253–261.
- Evans AW (1892a) Hepaticae. In: Millspaugh CF (Ed.) Preliminary catalogue of the flora of West Virginia. Moses W. Donally, Charleston, West Va., 495–498.
- Evans AW (1892b) List of liverworts from Southern Patagonia. *Contributions from the United States National Herbarium* 1 (5): 140–142.
- Evans AW (1893) An arrangement of the genera of hepaticae. *Transactions of the Connecticut Academy of Arts and Sciences* 8 (16): 262–280.
- Evans AW (1896) Notes on the North American species of *Plagiochila*. *Botanical Gazette* 21 (4): 185–194. doi: 10.1086/327330
- Evans AW (1898) An enumeration of the hepaticae collected by John B. Hatcher in southern Patagonia. *Bulletin of the Torrey Botanical Club* 25 (8): 407–431. doi: 10.2307/2477911
- Evans AW (1899) A revision of the North American species of *Frullania*, a genus of Hepaticae. *Transactions of the Connecticut Academy of Arts and Sciences* 10 (1): 1–39.
- Evans AW (1900a) The Hawaiian hepaticae of the tribe Jubuloideae. *Transactions of the Connecticut Academy of Arts and Sciences* 10 (8): 387–462.
- Evans AW (1900b) A new genus of hepaticae from the Hawaiian Islands. *Bulletin of the Torrey Botanical Club* 27 (3): 97–104. doi: 10.2307/2478313
- Evans AW (1900c) Notes on hepaticae collected in Alaska. *Proceedings of the Washington Academy of Sciences* 2: 287–314.
- Evans AW (1902a) The Lejeuneae of the United States and Canada. *Memoirs of the Torrey Botanical Club* 8 (2): 113–183. doi: 10.5962/bhl.title.97556
- Evans AW (1902b) A new hepatic from the eastern United States. *Botanical Gazette* 34 (5): 372–375. doi: 10.1086/328299
- Evans AW (1902c) Hepaticae of Puerto Rico. I. The species of *Leptolejeunea* including an account of their vegetative reproduction. *Bulletin of the Torrey Botanical Club* 29 (8): 496–510. doi: 10.2307/2478871
- Evans AW (1903a) Yukon hepaticae. *Ottawa Naturalist* 17: 13–24.
- Evans AW (1903b) Hepaticae of Puerto Rico. II. *Drepanolejeunea*. *Bulletin of the Torrey Botanical Club* 30 (1): 19–41. doi: 10.2307/2478645
- Evans AW (1903c) Hepaticae of Puerto Rico. III. *Harpalejeunea*, *Cyrtolejeunea*, *Euosmolejeunea* and *Trachylejeunea*. *Bulletin of the Torrey Botanical Club* 30 (10): 544–563. doi: 10.2307/2478516
- Evans AW (1904a) Hepaticae of Puerto Rico. IV. *Odontolejeunea*, *Cyclolejeunea* and *Prionolejeunea*. *Bulletin of the Torrey Botanical Club* 31 (4): 183–226. doi: 10.2307/2478687
- Evans AW (1904b) Notes on New England Hepaticae — II (cont.). *Rhodora* 6 (69): 185–190.

- Evans AW (1905a) Hepaticae of Puerto Rico. V. *Ceratolejeunea*. Bulletin of the Torrey Botanical Club 32 (6): 273–290. doi: 10.2307/2478810
- Evans AW (1905b) New or noteworthy hepaticae from Florida. Bulletin of the Torrey Botanical Club 32 (4): 179–192. doi: 10.2307/2478831
- Evans AW (1905c) A remarkable *Ptilidium* from Japan. Revue Bryologique 32 (4): 57–60.
- Evans AW (1906a) Hepaticae of Puerto Rico. VI. *Cheilolejeunea*, *Rectolejeunea*, *Cystolejeunea*, and *Pycnolejeunea*. Bulletin of the Torrey Botanical Club 33 (1): 1–25. doi: 10.2307/2478618
- Evans AW (1906b) Notes on Japanese hepaticae. Proceedings of the Washington Academy of Sciences 8: 141–166.
- Evans AW (1906c) The hepaticae of Bermuda. Bulletin of the Torrey Botanical Club 33 (3): 129–135. doi: 10.2307/2478823
- Evans AW (1907a) Hepaticae of Puerto Rico. VIII. *Symbiezidium*, *Marchesinia*, *Mastigolejeunea*, *Caudalejeunea* and *Bryopteris*. Bulletin of the Torrey Botanical Club 34 (11): 533–568. doi: 10.2307/2479269
- Evans AW (1907b) Hepaticae of Puerto Rico. VII. *Stictolejeunea*, *Neurolejeunea*, *Omphalanthus*, and *Lopholejeunea*. Bulletin of the Torrey Botanical Club 34 (1): 1–34. doi: 10.2307/2479163
- Evans AW (1908a) Hepaticae of Puerto Rico. IX. *Brachiolejeunea*, *Ptychocoleus*, *Archilejeunea*, *Leucolejeunea*, and *Anoplolejeunea*. Bulletin of the Torrey Botanical Club 35 (4): 155–179. doi: 10.2307/2478953
- Evans AW (1908b) New West Indian Lejeuneae. Bulletin of the Torrey Botanical Club 35 (8): 371–389. doi: 10.2307/2479284
- Evans AW (1909) Notes on New England hepaticae, – VII. *Rhodora* 11 (130): 185–195.
- Evans AW (1910) Vegetative reproduction in *Metzgeria*. Annals of Botany. Oxford 24 (2): 271–303.
- Evans AW (1911) Hepaticae of Puerto Rico. X. *Cololejeunea*, *Leptocolea* and *Aphanolejeunea*. Bulletin of the Torrey Botanical Club 38 (6): 251–286. doi: 10.2307/2479100
- Evans AW (1912a) Notes on North American hepaticae. III. *Bryologist* 15 (4): 54–63. doi: 10.2307/3237690
- Evans AW (1912b) Notes on New England hepaticae, – IX. *Rhodora* 14 (157): 1–18.
- Evans AW (1912c) Hepaticae of Puerto Rico. XI. *Diplasiolejeunea*. Bulletin of the Torrey Botanical Club 39 (5): 209–225. doi: 10.2307/2479376
- Evans AW (1912d) New West Indian Lejeuneae – II. Bulletin of the Torrey Botanical Club 39 (12): 603–611. doi: 10.2307/2479587
- Evans AW (1913) Notes on North American hepaticae. IV. *Bryologist* 16 (4): 49–55. doi: 10.2307/3238381
- Evans AW (1914a) Report on the hepaticae of Alaska. Bulletin of the Torrey Botanical Club 41 (12): 577–616. doi: 10.2307/2479541
- Evans AW (1914b) Notes on New England hepaticae, – XI. *Rhodora* 16 (184): 62–76.
- Evans AW (1914c) Hepaticae: Yale Peruvian Expedition of 1911. Transactions of the Connecticut Academy of Arts and Sciences 18 (5): 291–345.

- Evans AW (1915) The genus *Plagiochasma* and its North American species. *Bulletin of the Torrey Botanical Club* 42 (5): 259–308. doi: 10.2307/2479766
- Evans AW (1916) A new species of *Metzgeria* from the Galapagos Islands. *Torreya* 16 (3): 67–70.
- Evans AW (1917a) The American species of *Marchantia*. *Transactions of the Connecticut Academy of Arts and Sciences* 21 (3): 205–313.
- Evans AW (1917b) Notes on North American hepaticae. VII. *Bryologist* 20 (2): 17–28. doi: 10.2307/3238917
- Evans AW (1917c) Notes on the genus *Herberta*, with a revision of the species known from Europe, Canada and the United States. *Bulletin of the Torrey Botanical Club* 44 (4): 191–222. doi: 10.2307/2479530
- Evans AW (1917d) A new *Lejeunea* from Bermuda and the West Indies. *Bulletin of the Torrey Botanical Club* 44 (11): 525–528. doi: 10.2307/2479506
- Evans AW (1918) Noteworthy *Lejeuneae* from Florida. *American Journal of Botany* 5 (3): 131–150. doi: 10.2307/2435178
- Evans AW (1919a) Notes on New England hepaticae, – XV. *Rhodora* 21 (249): 149–169.
- Evans AW (1919b) Three South American species of *Asterella*. *Bulletin of the Torrey Botanical Club* 46 (12): 469–480. doi: 10.2307/2480391
- Evans AW (1920) The North American species of *Asterella*. *Contributions from the United States National Herbarium* 20: 247–312.
- Evans AW (1921a) The genus *Riccardia* in Chile. *Transactions of the Connecticut Academy of Arts and Sciences* 25 (2): 93–209.
- Evans AW (1921b) *Taxilejeunea pterogonia* and certain allied species. *Bulletin of the Torrey Botanical Club* 48 (4): 107–136. doi: 10.2307/2480341
- Evans AW (1922) Notes on North American hepaticae. IX. *Bryologist* 25 (2): 25–33. doi: 10.2307/3237567
- Evans AW (1923a) The Chilean species of *Metzgeria*. *Proceedings of the American Academy of Arts and Sciences* 58 (7): 271–324. doi: 10.2307/20025995
- Evans AW (1923b) Notes on North American hepaticae. X. *Bryologist* 26 (6): 55–67. doi: 10.2307/3238024
- Evans AW (1925) The lobate species of *Symphyogyna*. *Transactions of the Connecticut Academy of Arts and Sciences* 27 (1): 1–50.
- Evans AW (1927) A further study of the American species of *Symphyogyna*. *Transactions of the Connecticut Academy of Arts and Sciences* 28 (6): 301–353.
- Evans AW (1930a) The thallose hepaticae of the Juan Fernández Islands. In: Skottsberg C (Ed.) *The Natural History of Juan Fernández and Easter Island*. Botany 2. Almquist & Wiksell, Stockholm, 551–586. doi: 10.5962/bhl.title.25662
- Evans AW (1930b) Two species of *Lejeunea* from Chile. *Annales Bryologici* 3: 83–88.
- Evans AW (1932a) A new species of *Plagiochasma* from Texas. *American Journal of Botany* 19 (7): 627–631. doi: 10.2307/2436254
- Evans AW (1932b) Some representative species of *Bazzania* from Sumatra. *Papers of the Michigan Academy of Science, Arts and Letters* 17: 69–118.
- Evans AW (1934) A revision of the genus *Acromastigum*. *Annales Bryologici*, suppl. 3: 1–178. doi: 10.1007/978-94-015-3499-4

- Evans AW (1938a) The invalidity of the genus *Grimaldia* of Raddi. *Chronica Botanica* 4: 223–225.
- Evans AW (1938b) A new species of *Chiloscyphus* from Utah. *Bryologist* 41 (3): 50–57. doi: 10.2307/3238980
- Evans AW (1938c) Notes on the genus *Cololejeunea*. *Bryologist* 41 (4): 71–82. doi: 10.2307/3239339
- Fang Y-M, Enroth J, Koponen T, Piippo S (1998) The bryophytes of Jianxi province, China: An annotated checklist. *Hikobia* 12: 343–363.
- Feldberg K, Heinrichs J (2006) A taxonomic revision of *Herbertus* (Jungermanniidae: Herbertaceae) in the Neotropics based on nuclear and chloroplast DNA and morphology. *Botanical Journal of the Linnean Society* 151: 309–332. doi: 10.1111/j.1095-8339.2006.00534.x
- Feldberg K, Hentschel J, Bombosch A, Long DG, Váňa J, Heinrichs J (2009) Transfer of *Gottschia grollei*, *G. patoniae* and *Scaphophyllum speciosum* to *Solenostoma* based on chloroplast DNA rbcL sequences. *Plant Systematics and Evolution* 280 (3/4): 243–250. doi: 10.1007/s00606-009-0187-3
- Feldberg K, Váňa J, Long DG, Shaw AJ, Hentschel J, Heinrichs J (2010a) A phylogeny of Adelanthaceae (Jungermanniales, Marchantiophyta) based on nuclear and chloroplast DNA markers, with comments on classification, cryptic speciation and biogeography. *Molecular Phylogenetics and Evolution* 55 (1): 293–304. doi: 10.1016/j.ympev.2009.11.009
- Feldberg K, Váňa J, Hentschel J, Heinrichs J (2010b) Currently accepted species and new combinations in Jamesonielloideae (Adelanthaceae, Jungermanniales). *Cryptogamie, Bryologie* 31 (2): 141–146.
- Feldberg K, Váňa J, Schulze C, Bombosch A, Heinrichs J (2011) Morphologically similar but genetically distinct: on the differentiation of *Syzygiella concreta* and *S. perfoliata* (Adelanthaceae subfam. Jamesonielloideae). *Bryologist* 114 (4): 686–695. doi: 10.1639/0007-2745-114.4.686
- Feldberg K, Heinrichs J, Schmidt AR, Váňa J, Schneider H (2013) Exploring the impact of fossil constraints on the divergence time estimates of derived liverworts. *Plant Systematics and Evolution* 299 (3): 585–681. doi: 10.1007/s00606-012-0745-y
- Fischer E (1993) Taxonomic results of the BRYOTROP expedition to Zaire and Rwanda. 8. *Riccia vulcanicola* E. Fischer (subgenus *Ricciella*, sectio *Cavernosae*), a new species from the Virunga volcanoes, Rwanda. *Tropical Bryology* 8: 69–74.
- Fischer E, Vanderpoorten A (2010) New records for the liverwort flora of Gabon, with a description of *Ceratolejeunea kuerschmeri*, sp. nov. (Lejeuneaceae, Jungermanniopsida). *Beihfte zur Nova Hedwigia* 138: 85–97.
- Forrest LL, Davis EC, Long DG, Crandall-Stotler BJ, Clark A, Hollingsworth ML (2006) Unravelling the evolutionary history of the liverworts (Marchantiophyta): multiple taxa, genomes and analyses. *Bryologist* 109 (3): 303–334. doi: 10.1639/0007-2745(2006)109[303:UT EHOT]2.0.CO;2
- Forrest LL, Salazar N, Gudiño JA, Korpelainen H, Long DG (2011) Molecular and morphological evidence for distinct species in *Dumortiera* (Dumortieraceae). *Bryologist* 114 (1): 102–115. doi: 10.1639/0007-2745-114.1.102
- Forster JR, Forster G (1776) *Characteres generum plantarum*, ed. 2. White, Cadell et Elmsly, London, 150 pp. doi: 10.5962/bhl.title.4448

- Frahm J-P (1990) Bryophyte phytomass in tropical ecosystems. *Journal of the Linnean Society. Botany* 104 (1/3): 23–33. doi: 10.1111/j.1095-8339.1990.tb02209.x
- Frahm J-P (2006) *Frullania tamarisci* var. *azorica* (Jubulaceae, Marchantiopsida), a new taxon from the Azores. *Tropical Bryology* 27: 101–105.
- Frahm J-P, Eggers J (2001) *Lexikon deutschsprachiger Bryologen*. Books on Demand, Norderstedt, 672 pp.
- Frahm J-P, Frey W, Kürschner H, Menzel M (1990) Mosses and liverworts of Mt. Kinabalu. Sabah Parks Publication 12: 1–91.
- Frey W, Kürschner H (1993) *Targionia hypophylla* L. ssp. *linealis* (Marchantiidae, Hepaticae), eine neue Unterart aus Saudi Arabien sowie weitere Neufunde. *Studien an arabischen Bryophyten* 17. *Nova Hedwigia* 57 (1/2): 127–133.
- Frey W, Stech M (2005a) A morpho-molecular classification of the Anthocerotophyta (hornworts). *Nova Hedwigia* 80 (3/4): 541–545. doi: 10.1127/0029-5035/2005/0080-0541
- Frey W, Stech M (2005b) A morpho-molecular classification of the liverworts (Hepaticophytina, Bryophyta). *Nova Hedwigia* 81 (1/2): 55–78. doi: 10.1127/0029-5035/2005/0081-0055
- Frey W, Stech M (2008) New suprageneric taxa of liverworts (Marchantiophyta) and mosses (Bryophyta). *Nova Hedwigia* 87 (1/2): 261–267. doi: 10.1127/0029-5035/2008/0087-0261
- Frisvoll AA, Moen A (1980) *Lophozia borealis* sp. nov., a rich fen hepatic from Fennoscandia. *Lindbergia* 6 (2): 137–146.
- Frye TC, Clark L (1937) Hepaticae of North America. University of Washington Publications in Biology 6 (1): 1–161.
- Frye TC, Clark L (1946) Hepaticae of North America, part IV. University of Washington Publications in Biology 6 (4): 565–733.
- Fulford M (1941) Studies on American hepaticae I. Revision of the genus *Thysananthus*. *Bulletin of the Torrey Botanical Club* 68 (1): 32–42. doi: 10.2307/2481253
- Fulford M (1946) The genus *Bazzania* in Central and South America. *Annales Cryptogamici et Phytopathologici* 3: 1–175.
- Fulford M (1959a) Studies on American hepaticae. 9-11. A supplement to “The genus *Bazzania* in Central and South America”, II. *Tridentatae* (3-5). *Bulletin of the Torrey Botanical Club* 86 (6): 394–412. doi: 10.2307/2482645
- Fulford M (1959b) Studies on American hepaticae. 7-8. A supplement to “The genus *Bazzania* in Central and South America.” Part 1. Introduction and the subgenus *Bidentatae*. *Bulletin of the Torrey Botanical Club* 86 (5): 308–341. doi: 10.2307/2482503
- Fulford M (1960) *Bazzania chimantensis*, a new species from Venezuela. *Bryologist* 63 (2): 88–93. doi: 10.2307/3240878
- Fulford M (1962a) Segregate genera of the *Lepidozia* complex (Hepaticae). Part 3. *Microlepidozia* Jörg. and *Micrisophylla* gen. nov. *Brittonia* 14 (1): 121–136. doi: 10.2307/2805325
- Fulford M (1962b) Additional notes on the Vetaformaceae (Hepaticae). *Nova Hedwigia* 4 (1/2): 81–85.
- Fulford M (1963) Segregate genera of the *Lepidozia* complex (Hepaticae). Part 4. *Telaranea* and a review of the Lepidoziaceae. *Brittonia* 15 (1): 65–85. doi: 10.2307/2805041

- Fulford M (1966) Manual of the leafy hepaticae of Latin America II. *Memoirs of the New York Botanical Garden* 11 (2): 173–276.
- Fulford M (1967) Hepaticae. In: Steyermark JA (Ed.) *Flora del Auyan-tepui*. *Acta Botánica Venezolana* 2 (5/8): 5–370.
- Fulford M (1968) Manual of the leafy hepaticae of Latin America III. *Memoirs of the New York Botanical Garden* 11 (3): 277–392.
- Fulford M (1972) Hepaticae. In: Steyermark JA (Ed.) Maguire B, *The flora of the Meseta del Cerro Jaua*. *Memoirs of the New York Botanical Garden* 23: 833–892.
- Fulford M (1976) Manual of the leafy hepaticae of Latin America IV. *Memoirs of the New York Botanical Garden* 11 (4): 395–535.
- Fulford M, Hatcher RE (1958) *Triandrophyllum*, a new genus of leafy hepaticae. *Bryologist* 61 (4): 276–285. doi: 10.2307/3240159
- Fulford M, Hatcher RE (1961) The genus *Triandrophyllum* – some nomenclatural changes. *Bryologist* 64 (4): 348–351. doi: 10.2307/3240856
- Fulford M, Sharp AJ (1990) The leafy hepaticae of Mexico: one hundred and twenty-seven years after C. M. Gottsche. *Memoirs of the New York Botanical Garden* 63: 1–86.
- Fulford M, Taylor J (1959a) The segregate genera of the *Lepidozia* complex (Hepaticae). Part 1. *Sprucella* Steph. and *Neolepidozia* gen. nov. *Brittonia* 11 (2): 77–85. doi: 10.2307/2805175
- Fulford M, Taylor J (1959b) Two new families of leafy hepaticae: Vetaformaceae and Pseudolepicoleaceae from southern South America. *Nova Hedwigia* 1 (3/4): 405–422.
- Fulford M, Taylor J (1961) Segregate genera of the *Lepidozia* complex (Hepaticae). Part 2. Two new genera, *Bonneria* and *Paracromastigum*. *Brittonia* 13 (4): 334–339. doi: 10.2307/2805411
- Furuki T (1991) A taxonomical revision of the Aneuraceae (Hepaticae) of Japan. *Journal of the Hattori Botanical Laboratory* 70: 293–397.
- Furuki T (1994a) Taxonomic studies of Asiatic species of Aneuraceae (Hepaticae). I. *Riccardia* subg. *Corioneura* Furuki. *Journal of the Hattori Botanical Laboratory* 75: 257–261.
- Furuki T (1994b) *Aneura marianensis* sp. nov. (Hepaticae) of the northern Mariana Islands. *Bryologist* 97 (1): 87–88. doi: 10.2307/3243357
- Furuki T (1997) Taxonomic studies of Asiatic species of Aneuraceae (Hepaticae). V. *Riccardia planiflora* (Steph.) Hatt. var. *aequatorialis* Furuki var. nov. *Natural History Research* 4 (2): 77–79.
- Furuki T (1998) Taxonomic studies of Asiatic species of Aneuraceae (Hepaticae). VI. *Riccardia fruticosa* (Steph.) Furuki, comb. nov., described from New Guinea and its related species. *Natural History Research* 5 (1): 1–10.
- Furuki T (1999) Taxonomic studies of Asiatic Species of Aneuraceae (Hepaticae). VII. *Riccardia grollei* Furuki, sp. nov. from southeast Asia. *Hausknechtia*, Beiheft 9: 139–142.
- Furuki T (2001) *Lethocolea naruto-toganensis*, a new hepatic from swamps of Japan. *Bryologist* 104 (2): 306–309. doi: 10.1639/0007-2745(2001)104[0306:LNTANH]2.0.CO;2
- Furuki T (2006a) Taxonomical studies of the family Aneuraceae (Hepaticae) based on the Philippine collections made by Dr. and Mrs. A. J. Sharp and Dr. Z. Iwatsuki. *Journal of the Hattori Botanical Laboratory* 100: 89–99.

- Furuki T (2006b) A new species of *Nardia* (Jungermanniaceae, Hepaticae) from Japan. *Bryological Research* 9 (3): 73–77.
- Furuki T (2007) *Radula fujitae* Furuki, sp. nov. (Radulaceae, Hepaticae) from Okinawa Island, southern Japan. *Bryological Research* 9 (5): 143–146.
- Furuki T, Higuchi M (2006) A new species of *Exormotheca* (Exormothecaceae, Hepaticae) from China. *Cryptogamie, Bryologie* 27 (1): 97–102.
- Furuki T, Iwatsuki Z (1989) *Mizutania riccardioides*, gen. et sp. nov. (Mizutaniaceae, fam. nov.), a unique liverwort from Tropical Asia. *Journal of the Hattori Botanical Laboratory* 67: 291–296.
- Furuki T, Long DG (1994) *Aneura crateriformis*, a new liverwort species from the East Himalaya and China. *Journal of Bryology* 18 (2): 281–286. doi: 10.1179/jbr.1994.18.2.281
- Furuki T, Long DG (2007) *Lobatiriccardia yunnanensis*, sp. nov. (Metzgeriales, Aneuraceae) from Yunnan, China. *Journal of Bryology* 29 (3): 161–164. doi: 10.1179/174328207X227429
- Furuki T, Yamada K (1986) The genus *Radula* (Hepaticae) of the Bonin and Volcano Islands. *Journal of Japanese Botany* 61 (10): 311–314.
- Furuki T, Yong K-T, Mohamed AMH (2013) *Riccardia deguchii* Furuki & K.T.Yong (Marchantiophyta, Aneuraceae), sp. nov. from Malaysia. *Hikobia* 16 (3): 285–288.
- Fuselier L, Davison PG, Clements M, Shaw B, Devos N, Heinrichs J, Hentschel J, Sabovljević M, Szövényi P, Schuette S, Hofbauer W, Shaw AJ (2009) Phylogeographic analyses reveal distinct lineages of the liverworts *Metzgeria furcata* (L.) Dumort. and *Metzgeria conjugata* Lindb. (Metzgeriaceae) in Europe and North America. *Journal of the Linnean Society. Biology* 98 (4): 745–756. doi: 10.1111/j.1095-8312.2009.01319.x
- Fuselier LC, Shaw B, Engel JJ, von Konrat M, Costa DP, Devos N, Shaw AJ (2011) The status and phylogeography of the liverwort genus *Apometzgeria* Kuwah. (Metzgeriaceae). *Bryologist* 114 (1): 92–101. doi: 10.1639/0007-2745-114.1.92
- Gao C (2003) *Flora bryophytorum Sinicorum* 9. Takakiales, Calobryales, Jungermanniales. Science Press, Beijing, 323 pp.
- Gao C, Bai X-L (2001) A synoptic revision of family Jungermanniaceae (Hepaticae) in China including some taxa nova. *Philippine Scientist* 38: 111–170.
- Gao C, Bai X-L (2002) *Lepidozia suyungii* (Lepidoziaceae, Hepaticae), a new species from southwestern China, with discussion of the species of *Lepidozia* in China. *Journal of the Hattori Botanical Laboratory* 92: 191–197.
- Gao C, Chang KC (1978) Species novae Ricciacearum Chinae boreali-orientalis. *Acta Phytotaxonomica Sinica* 16 (4): 113–118.
- Gao C, Chang KC (1981) *Flora hepaticarum Chinae boreali-orientalis*. Science Press, Beijing, 220 pp.
- Gao C, Chang K (1982) Genus nova Bryophytorum [sic]. *Bulletin of Botanical Research. Harbin* 2 (4): 113–121.
- Gao C, Wu Y-H (2004) On seven species of the Schistochilaceae (Hepaticae) in China, including one new species and one new combination. *Journal of the Hattori Botanical Laboratory* 95: 263–270.

- Gao C, Wu Y-H (2005) *Radula stellatogemmipara* (Radulaceae, Hepaticae), a new species from Fujian and Guangxi, China. *Nova Hedwigia* 80 (1/2): 237–240. doi: 10.1127/0029-5035/2005/0080-0237
- Gao C, Chang K-C, Cao T (1981) Taxa nova bryophytarum Tibetarum. *Acta Botanica Yunnanica* 3 (4): 389–399.
- Gao C, Cao T, Lai MJ (2001) The genus *Saccogymidium* (Geocalycaceae, Hepaticae) in China. *Bryologist* 104 (1): 126–129. doi: 10.1639/0007-2745(2001)104[0126:TGSGHI]2.0.CO;2
- Gao C, Cao T, Sun J (2002) The genus *Isotachis* (Hepaticae, Balantiopsidaceae) in China. *Bryologist* 105 (4): 693–698. doi: 10.1639/0007-2745(2002)105[0693:TGIHBI]2.0.CO;2
- Gao C, Wu Y-H, Grolle R (2003) *Jungermannia cheniana*, a new liverwort with 2-3-stratose leaves from Yunnan, China. *Nova Hedwigia* 77 (1/2): 189–193. doi: 10.1127/0029-5035/2003/0077-0189
- Gao C, Cao T, Wu Y, Yu J, Chen Y (2004) A new species and three new records of *Heteroscyphus* (Jungermanniopsida: Geocalycaceae) to China. *Journal of Bryology* 26 (2): 97–102. doi: 10.1179/037366804225021047
- Garcia C, Sérgio C, Villarreal JC, Sim-Sim M, Lara F (2012) The hornworts *Dendroceros* Nees and *Megaceros* Campb. in São Tomé e Príncipe (Africa, Gulf of Guinea) with the description of *Dendroceros paivae* sp. nov. *Cryptogamie, Bryologie* 33 (1): 3–21. doi: 10.7872/cryb.v33.iss1.2012.003
- Garside S (1958) Studies in South African Ricciaceae. III. A new species of *Oxymitra*. *Journal of South African Botany* 24: 83–87.
- Gaudichaud C (1827) Voyage autour du monde entrepris par ordre du Roi, exécuté sur les corvettes l'Uranie et la Physicienne. Botanique, fasc. 4. Arthus Bertrand, Paris, 121–160. doi: 10.5962/bhl.title.15862
- Geissler P, Gradstein SR (1994) On the identity of *Phragmicoma lehmanniana* Nees and other species described in the genus *Phragmicoma* (Studies in Lejeuneaceae subfam. Ptychanthoideae. 23). *Journal of the Hattori Botanical Laboratory* 75: 201–209.
- Gepp A (1890) Musci, Hepaticae (in: Ridley HN, Notes on the Botany of Fernando Noronha). *Journal of the Linnean Society. Botany* 27 (181): 74–75. doi: 10.1111/j.1095-8339.1890.tb00800.x
- Gepp A (1895a) Additional notes on Mr. W. R. Elliott's hepaticae. *Journal of Botany, British and Foreign* 33: 82–84.
- Gepp A (1895b) Hepaticae Elliottianae, insulis Antillanis St Vincentii et Dominica a clar. W. R. Elliott, annis 1891-92, lectae, Richard Spruce determinatae. *Journal of the Linnean Society. Botany* 30 (210): 331–372. doi: 10.1111/j.1095-8339.1894.tb02416.x
- Gerola FM (1947) Epatiche dell'Abissinia meridionale. *Lavori di Botanica, Istituto di Botanica e di Fisiologia Vegetale dell'Università de Padova* 12: 471–485.
- Gerson U (1982) Bryophytes and invertebrates. In: Smith AJE (Ed.) *Bryophyte Ecology*. Chapman & Hall, London, 291–332. doi: 10.1007/978-94-009-5891-3_9
- Gibbs LS (1909) A contribution to the montane flora of Fiji (including Cryptogams), with ecological notes. *Journal of the Linnean Society. Botany* 39 (270): 130–212. doi: 10.1111/j.1095-8339.1909.tb01192.x

- Gignac LD (2001) Bryophytes as indicators of climate change. *Bryologist* 104 (3): 410–420. doi: 10.1639/0007-2745(2001)104[0410:BAIOCC]2.0.CO;2
- Gillett JM, Jovet-Ast S (1957) Deux *Riccia* de l'Air (Territoire du Niger). *Revue Bryologique et Lichénologique* 26 (1/2): 62–66.
- Giordano S, Sorbo S, Adamo P, Basile A, Spagnuolo V, Cobianchi RC (2004) Biodiversity and trace element content of epiphytic bryophytes in urban and extraurban sites of southern Italy. *Plant Ecology* 170 (1): 1–14. doi: 10.1023/B:VEGE.0000019025.36121.5d
- Glenny DS (1996) *Nephelolejeunea papillosa*, a new liverwort species from New Zealand, with notes on the distribution of *Kymatolejeunea bartlettii* Grolle. *New Zealand Journal of Botany* 34 (2): 195–198. doi: 10.1080/0028825X.1996.10410683
- Glenny DS, Bartlett R (2007) A new *Bazzania* species (Lepidoziaceae) from Stockton Plateau, Nelson, South Island, New Zealand. *Fieldiana: Botany (n.ser.)* 47: 175–180. doi: 10.3158/0015-0746-47.1.175
- Glenny D, Engel JJ (2013) A new species of *Clasmatocolea* (Marchantiophyta: Lophocoleaceae), and a new record of Tasmanian species, both from New Zealand. *New Zealand Journal of Botany* 51 (1): 22–30. doi: 10.1080/0028825X.2012.736390
- Glenny DS, Braggins JE, Schuster RM (1997) *Zoopsis nitida* (Hepaticae: Lepidoziaceae), a new species from New Zealand. *Journal of Bryology* 19 (4): 775–780. doi: 10.1179/jbr.1997.19.4.775
- Glenny DS, Engel JJ, He-Nygrén X-L (2009) The systematic identity of *Chiloscyphus trichocoleoides*, a new liverwort species from New Zealand, uncovered by morphological and molecular evidence. *Journal of Bryology* 31 (2): 93–105. doi: 10.1179/174328209X427524
- Godfrey JD (1976) *Schofieldia*, a new hepaticae from the Pacific northwest. *Bryologist* 79 (3): 314–320. doi: 10.2307/3242370
- Godfrey JD, Godfrey GA (1978) *Scapania hians* in Shensi, China and British Columbia, Canada. *Bryologist* 81 (3): 357–367. doi: 10.2307/3242238
- Godfrey JD, Godfrey GA (1979) *Jungermannia schusterana*, a new hepatic from the Pacific coast of North America. *Journal of the Hattori Botanical Laboratory* 46: 109–117.
- Godfrey JD, Godfrey GA (1980) *Frullania hattoriana*, a new hepatic from British Columbia, Canada. *Journal of the Hattori Botanical Laboratory* 48: 321–327.
- Goebel KI (1888) Morphologische und biologische Studien. I. Ueber epiphytische Farne und Muscineen. *Annales du Jardin Botanique de Buitenzorg* 7 (1): 1–73.
- Goebel KI (1889) Über die Jugendzustände der Pflanzen. *Flora* 72 (1): 1–45.
- Goebel KI (1890) Morphologische und biologische Studien. IV. Ueber Javanische Lebermoose. *Annales du Jardin Botanique de Buitenzorg* 9 (1): 1–40.
- Goebel KI (1891) Pflanzenbiologische Schilderungen, Zweiter Teil, Erste Lieferung. N. G. Elwert'sche Verlagsbuchhandlung, Marburg, 160 pp. doi: 10.5962/bhl.title.1665
- Goebel KI (1893a) Archegoniatenstudien. 5. Die Blattbildung der Lebermoose und ihre biologische Bedeutung. *Flora* 77: 423–459.
- Goebel KI (1893b) Archegoniatenstudien. 3. Rudimentäre Lebermoose. *Flora* 77 (2): 82–103.
- Goebel KI (1906) Archegoniatenstudien. X. Beiträge zur Kenntnis australischer und neuseeländischer Bryophyten. *Flora* 96: 1–202.

- Goebel KI (1912) Archegoniatenstudien. XV. Die Homologie der Antheridien- und Archegonienhüllen bei den Lebermoosen. *Flora* 105: 53–70.
- Goebel KI (1915) *Organographie der Pflanzen*, ed. 2, vol. 2(1), Spezielle Organographie, Bryophyten. Gustav Fischer Verlag, Stuttgart, Jena, New York, 515–902. doi: 10.5962/bhl.title.20547
- Goebel KI (1928) Morphologische und Biologische Studien XII–XV. *Annales du Jardin Botanique de Buitenzorg* 39: 1–232.
- Gola G (1907) Species novae in excelsis Ruwenzori in expeditione Ducis Aprutii Lectae. III: Hepaticae. *Annali di Botanica*. Roma 6 (2): 271–276.
- Gola G (1914a) Epatiche dell'Abissinia. *Annali di Botanica*. Roma 13 (1): 59–75.
- Gola G (1914b) Epatiche del Kashmir raccolte dalla Spedizione Piacenza. *Atti della Reale Accademia delle Scienze di Torino. Classe di Scienze, Fisiche, Matematiche e Naturali* 49: 757–761.
- Gola G (1916) Le epatiche della regione del Kenia. *Memorie della reale accademia delle scienze di Torino (ser. 2)* 65 (1): 1–11.
- Gola G (1920) Contributo alla conoscenza delle Epatiche del Katanga (Congo Belga). *Nuovo Giornale Botanico Italiano (n.ser.)* 27 (2/4): 244–250.
- Gola G (1922) Le epatiche raccolte dal Dott. G.B. de Gasperi nella Terra del Fuoco sud-occidentale. *Nuovo Giornale Botanico Italiano (n.ser.)* 29 (1/4): 162–173.
- Gottsche CM (1853) *Muscorum hepaticorum species novae javanenses*. *Natuurkundig Tijdschrift voor Nederlandsch-Indië* 4: 573–576.
- Gottsche CM (1856) *Plantae Muellerianae: Hepaticae Australiae*. *Linnaea* 28 (5): 547–561.
- Gottsche CM (1857) *Pugillus novarum hepaticarum*. *Annales des Sciences Naturelles; Botanique (sér. 4)* 8: 318–348.
- Gottsche CM (1858) Uebersicht und kritische Würdigung der seit dem Erscheinen der Synopsis Hepaticarum bekannt gewordenen Leistungen in der Hepaticologie. *Botanische Zeitung*. Berlin, Beilage 16: 1–54.
- Gottsche CM (1863) *De Mexikanske Levermosser*. Bianco Lunos Bogtrykkeri, Kjøbenhavn, 285 pp.
- Gottsche CM (1864) Hepaticae. In: Triana JJ, Planchon JE (Eds) *Prodromus florae novo-granatensis*. *Annales des Sciences Naturelles; Botanique (sér. 5)* 1: 95–198.
- Gottsche CM (1867) Einige Bemerkungen zu Thom. Jensen, *Conspectus Hepaticarum Daniae eller Beskrivelse af de danske halvmosser*. *Hedwigia* 6 (5): 65–77.
- Gottsche CM (1880) *Musci hepaticae (Adans., Hedw.) sive lichenastri (Dill., Wallr.) Australiani*. In: Müller F (Eds) *Supplementum ad volumen undecimum Fragmentorum Phytographiae Australiae*. *Gobierni Coloniae Victoriae*, Melbourne, 53–69.
- Gottsche CM (1882) *Reliquiae Rutenbergianae. Lebermoose*. *Abhandlungen Herausgegeben vom Naturwissenschaftlichen Vereins zu Bremen* 7: 338–365.
- Gottsche CM (1890) Die Lebermoose Süd-Georgiens. In: Neumayer GB (Eds) *Die Internationale Polarforschung 1882–83. Die Deutschen Expeditionen und ihre Ergebnisse. II Beschreibende Naturwissenschaften*. A. Asher & Co., Berlin, 449–454.
- Gottsche CM, Rabenhorst GL (1863) *Hepaticae Europaeae. Die Lebermoose Europa's unter Mitwirkung mehrerer namhafter Botaniker*, decades 29–30. Dresden, no. 281–300.
- Gottsche CM, Rabenhorst GL (1867) *Hepaticae Europaeae. Die Lebermoose Europa's unter Mitwirkung mehrerer namhafter Botaniker*, decades 38–39. Dresden, no. 371–390.

- Gottsche CM, Rabenhorst GL (1868) Hepaticae Europaeae. Die Lebermoose Europa's unter Mitwirkung mehrerer namhafter Botaniker, decades 42-44. Dresden, no. 411-440.
- Gottsche CM, Rabenhorst GL (1873a) Hepaticae Europaeae. Die Lebermoose Europa's unter Mitwirkung mehrerer namhafter Botaniker, decades 58-59. Dresden, no. 571-590.
- Gottsche CM, Rabenhorst GL (1873b) Hepaticae Europaeae. Die Lebermoose Europa's unter Mitwirkung mehrerer namhafter Botaniker, decades 56-57. Dresden, no. 551-570.
- Gottsche CM, Rabenhorst GL (1877) Hepaticae Europaeae. Die Lebermoose Europa's unter Mitwirkung mehrerer namhafter Botaniker, decades 62-64. Dresden, no. 611-640.
- Gottsche CM, Lindenberg JBW, Nees CG (1843) Hepaticae. In: Meyen FJF (Ed.) *Observationes botanicas. Novorum Actorum Academiae Caesareae Leopoldino-Carolinae Naturae Curiosorum* 19 [suppl. 1]: 1-512.
- Gottsche CM, Lindenberg JBW, Nees CG (1844) *Synopsis hepaticarum*, fasc. 1. Meissner, Hamburg, 1-144. doi: 10.5962/bhl.title.15221
- Gottsche CM, Lindenberg JBW, Nees CG (1845a) *Synopsis hepaticarum*, fasc. 2. Meissner, Hamburg, 145-304. doi: 10.5962/bhl.title.15221
- Gottsche CM, Lindenberg JBW, Nees CG (1845b) *Synopsis hepaticarum*, fasc. 3. Meissner, Hamburg, 305-464. doi: 10.5962/bhl.title.15221
- Gottsche CM, Lindenberg JBW, Nees CG (1846) *Synopsis hepaticarum*, fasc. 4. Meissner, Hamburg, 465-624. doi: 10.5962/bhl.title.15221
- Gottsche CM, Lindenberg JBW, Nees CG (1847) *Synopsis hepaticarum*, fasc. 5. Meissner, Hamburg, 625-834. doi: 10.5962/bhl.title.15221
- Gottsche CM, Rabenhorst GL (1872) Hepaticae Europaeae. Die Lebermoose Europa's unter Mitwirkung mehrerer namhafter Botaniker, Decades 53-55. C. Heinrichs, Dresden, tab. 530-550.
- Gradstein SR (1974a) Studies on Lejeuneaceae subfam. Ptychanthoideae. I. Nomenclature and taxonomy of *Ptychocoleus*, *Acrolejeunea* and *Schiffneriolejeunea*. *Journal of the Hattori Botanical Laboratory* 38: 327-336.
- Gradstein SR (1974b) Studies on Lejeuneaceae subfam. Ptychanthoideae (Hepaticae). II. Two remarkable species of *Caudalejeunea*: *C. grolleana* spec. nov. and *C. cristiloba* (Steph.) comb. nov. *Acta Botanica Neerlandica* 23 (3): 333-343.
- Gradstein SR (1975) A taxonomic monograph of the genus *Acrolejeunea* (Hepaticae), with an arrangement of the Genera of Ptychanthoideae. *Bryophytorum Bibliotheca* 4: 1-162.
- Gradstein SR (1977) Studies on Lejeuneaceae subfam. Ptychanthoideae (Hepaticae) IV. *Verdoornianthus*, a new genus from Amazonas, Brazil. *Bryologist* 80 (4): 606-611. doi: 10.2307/3242417
- Gradstein SR (1985a) A guide to the holostipous Lejeuneaceae. *Beihefte zur Nova Hedwigia* 80: 13-29.
- Gradstein SR (1985b) A revision of the genus *Stictolejeunea* (Spruce) Schiffn. *Beihefte zur Nova Hedwigia* 80: 195-220.
- Gradstein SR (1986) The genus *Colura* (Hepaticae) in the Galápagos Islands. *Hikobia* 9: 353-356.
- Gradstein SR (1989) A key to the hepaticae and anthocerotae of Puerto Rico and the Virgin Islands. *Bryologist* 92 (3): 329-348. doi: 10.2307/3243402
- Gradstein SR (1991) Diversity and distribution of Asian Lejeuneaceae subfamily Ptychanthoideae. *Tropical Bryology* 4: 1-16.

- Gradstein SR (1992a) The genera *Thysananthus*, *Dendrolejeunea*, and *Fulfordianthus* gen. nov. (Studies on Lejeuneaceae subfamily Ptychanthoideae. XXI). *Bryologist* 95 (1): 42–51. doi: 10.2307/3243784
- Gradstein SR (1992b) What is *Lejeunea trigona*? (Studies on Lejeuneaceae subfam. Ptychanthoideae XXII). *Contributions from the University of Michigan Herbarium* 18: 99–103.
- Gradstein SR (1994) Lejeuneaceae: Ptychantheae, Brachiolejeuneae. *Flora Neotropica*, Monograph 62: 1–216.
- Gradstein SR (1997) *Bromeliophila helenae*, a new species of Lejeuneaceae from the Neotropics. *Cryptogamie: Bryologie, Lichénologie* 18 (3): 217–221.
- Gradstein SR (1999) Hepaticae. In: Luteyn JL (Ed.) *Páramos*, a checklist of plant diversity, geographical distribution and botanical literature. *Memoirs of the New York Botanical Garden* 84: 1–278.
- Gradstein SR (2013a) Notes on Early Land Plants Today. 22. New combinations and new synonymy in *Omphalanthus* and *Aureolejeunea* (Lejeuneaceae, Marchantiophyta). *Phytotaxa* 76 (3): 45–47. doi: 10.11646/phytotaxa.76.3.10
- Gradstein SR (2013b) Notes on Early Land Plants Today. 21. On *Archilejeunea herminieri* (Lejeuneaceae, Marchantiophyta). *Phytotaxa* 76 (3): 43–44. doi: 10.11646/phytotaxa.76.3.9
- Gradstein SR (2013c) A classification of Lejeuneaceae (Marchantiophyta) based on molecular and morphological evidence. *Phytotaxa* 100 (1): 6–20. doi: 10.11646/phytotaxa.100.1.2
- Gradstein SR (2013d) Notes on Early Land Plants Today. 26. Miscellaneous synonyms in liverworts (Marchantiophyta). *Phytotaxa* 81 (1): 3–7. doi: 10.11646/phytotaxa.81.1.2
- Gradstein SR, Benitez A (2014) Two new taxa of leafy liverworts (Marchantiophyta: Jungermanniidae) from Cerro Plateado, Cordillera del Cóndor, Ecuador. *Nova Hedwigia* 99 (1/2): 111–118. doi: 10.1127/0029-5035/2014/0181
- Gradstein SR, Burghardt M (2008) A new species of *Odontoschisma* (Cephaloziaceae, Marchantiophyta) from South America. *Fieldiana: Botany (n.ser.)* 47: 193–198. doi: 10.3158/0015-0746-47.1.193
- Gradstein SR, Buskes GM (1985) A revision of neotropical *Archilejeunea* (Spruce) Schiffn. *Beihefte zur Nova Hedwigia* 80: 89–112.
- Gradstein SR, Costa DP (2003) The hepaticae and anthocerotae of Brazil. *Memoirs of the New York Botanical Garden* 87: 1–316.
- Gradstein SR, Florschütz-de Waard J (1989) Results of a botanical expedition to Mt. Roraima, Guyana. 1. Bryophytes. *Tropical Bryology* 1: 25–54.
- Gradstein SR, Geissler P (1997) Notes on the genus *Leucolejeunea* (Hepaticae). *Cryptogamie: Bryologie, Lichénologie* 18 (3): 177–182.
- Gradstein SR, Hekking WHA (1979) Studies on Colombian cryptogams. IV. A catalogue of the hepaticae of Colombia. *Journal of the Hattori Botanical Laboratory* 45: 93–144.
- Gradstein SR, Ilkiu-Borges AL (2009) Guide to the plants of central French Guiana, part 4. Liverworts and hornworts. *Memoirs of the New York Botanical Garden* 76 (4): 1–140.
- Gradstein SR, Ilkiu-Borges AL (2015) A taxonomic revision of the genus *Odontoschisma* (Marchantiophyta: Cephaloziaceae). *Nova Hedwigia* 100 (1/2): 15–100. doi: 10.1127/nova_hedwigia/2014/0219

- Gradstein SR, Reiner-Drehwald ME (2007) The status of *Neopotamolejeunea* (Lejeuneaceae) and description of a new species from Ecuador and southern Brazil. *Systematic Botany* 32 (3): 487–492. doi: 10.1600/036364407782250571
- Gradstein SR, Schäfer-Verwimp A (2011) A new species of *Harpalejeunea* (Spruce) Schiffn. (Lejeuneaceae) from montane cloud forest of Colombia and Costa Rica. *Cryptogamie, Bryologie* 32 (2): 101–106. doi: 10.7872/cryb.v32.iss1.2011.101
- Gradstein SR, Schäfer-Verwimp A (2012) A new species of *Archilejeunea* (Spruce) Schiffn. (Lejeuneaceae) from Ecuador. *Cryptogamie, Bryologie* 33 (2): 107–112. doi: 10.7872/cryb.v33.iss2.2012.107
- Gradstein SR, Terken L (1981) Studies on Lejeuneaceae subfam. Ptychanthoideae VI. A revision of *Schiffneriolejeunea* sect. *Saccatae* from Asia. *Occasional Papers of the Farlow Herbarium of Cryptogamic Botany* 16: 71–81.
- Gradstein SR, van Beek J (1985) A revision of the genus *Symbiezidium* Trevis. *Beihefte zur Nova Hedwigia* 80: 221–249.
- Gradstein SR, Váňa J (1999) On the taxonomy of *Kymatocalyx* and *Stenorrhypis* (Cephaloziellaceae). *Haussknechtia, Beiheft* 9: 155–170.
- Gradstein SR, Vanden Berghen C (1985) *Schiffneriolejeunea* sect. *Pappeanae* en Afrique. *Beihefte zur Nova Hedwigia* 80: 173–193.
- Gradstein SR, Cleef AM, Fulford M (1977) Studies on Colombian cryptogams. IIA-C. Hepaticae – oil body structure and ecological distribution of selected species of tropical Andean Jungermanniales. *Proceedings, Koninklijke Nederlandse Akademie van Wetenschappen. Series C, biological and medical sciences* 80: 377–420.
- Gradstein SR, Klein R, Kraut L, Mues R, Spörle J, Becker H (1992) Phytochemical and morphological support for the existence of two species in *Monoclea* (Hepaticae). *Plant Systematics and Evolution* 180 (1/2): 115–135. doi: 10.1007/BF00940401
- Gradstein SR, Grolle R, Schäfer-Verwimp A (1993) Two interesting species of Lejeuneaceae from Brazil. *Journal of the Hattori Botanical Laboratory* 74: 59–70.
- Gradstein SR, Lücking A, Morales MI, Dauphin G (1994) Additions to the hepatic flora of Costa Rica. *Lindbergia* 19 (2/3): 73–86.
- Gradstein SR, Churchill SP, Salazar Allen N (2001a) Guide to the bryophytes of tropical America. *Memoirs of the New York Botanical Garden* 86: 1–577.
- Gradstein SR, Griffin D, Morales MI, Nadkarni N (2001b) Diversity and habitat differentiation of mosses and liverworts in the cloud forest of Monteverde, Costa Rica. *Caldasia* 23 (1): 203–212.
- Gradstein SR, He X, Piippo S, Mizutani M (2002) Bryophyte flora of the Huon Peninsula, Papua New Guinea. LXVIII. Lejeuneaceae subfamily Ptychanthoideae (Hepaticae). *Acta Botanica Fennica* 174: 1–88.
- Gradstein SR, Meneses RI, Allain B (2003) Catalogue of the hepaticae and anthocerotae of Bolivia. *Journal of the Hattori Botanical Laboratory* 93: 1–67.
- Gradstein SR, Wilson R, Ilkiu-Borges AL, Heinrichs J (2006) Phylogenetic relationships and neotenic evolution of *Metzgeriopsis* (Lejeuneaceae) based on chloroplast DNA sequences and morphology. *Botanical Journal of the Linnean Society* 151 (3): 293–308. doi: 10.1111/j.1095-8339.2006.00531.x

- Gradstein SR, Ilkiu-Borges AL, Vanderpoorten A (2011) Habitat specialization triggers the evolution of unusual morphologies: the case of *Cololejeunea stotleriana* sp. nov. from Ecuador. *Bryologist* 114 (1): 9–22. doi: 10.1639/0007-2745-114.1.9
- Gradstein SR, Laenen B, Frahm J-P, Schwarz U, Crandall-Stotler BJ, Engel JJ, von Konrat M, Stotler RE, Shaw B, Shaw AJ (2014a) On the taxonomic status of the enigmatic Phycolepidoziaceae (Marchantiophyta: Jungermanniales) with description of a new species, *Phycolepidozia indica*. *Taxon* 63 (3): 498–508. doi: 10.12705/633.17
- Gradstein SR, Aranda SC, Vanderpoorten A (2014b) Notes on Early Land Plants Today. 47. Transfer of *Iwatsukia* to *Odontoschisma* (Cephaloziaceae, Marchantiophyta). *Phytotaxa* 162 (4): 232–233. doi: 10.11646/phytotaxa.162.4.6
- Gray SF (1821) Natural arrangement of British plants. Vol. 1. Baldwin, Craddock, and Joy, London, 824 pp. doi: 10.5962/bhl.title.43804
- Gray A (1846) Sullivant's muscology. *American Journal of Science and Arts* (ser. 2) 1 (1): 70–81.
- Gray A (1848) A manual of the botany of the northern United States. John Chapman, London, 710 pp. doi: 10.5962/bhl.title.10392
- Greville RK (1825) Descriptions of some new plants belonging to the order musci and hepaticae. *Annals of the Lyceum of Natural History of New York* 1 (2): 271–278.
- Griffith W (1849) Notulae ad plantas asiaticas. Part II. On the higher cryptogamous plants. Bishop's College Press, Calcutta, 257–628. doi: 10.5962/bhl.title.70352
- Grolle R (1956) Revision der *Clasmatocolea*-Arten. *Revue Bryologique et Lichénologique* 25 (3/4): 288–303.
- Grolle R (1958) Über *Jungermannia placophylla* Taylor. *Revue Bryologique et Lichénologique* 27 (1/2): 52–54.
- Grolle R (1959a) *Lophozia (Massula) patagonica* Herz. & Grolle n. sp. *Revue Bryologique et Lichénologique* 28 (3/4): 343–345.
- Grolle R (1959b) Beitrag zur Kenntnis der afrikanischen Lophocoleen. *Transactions of the British Bryological Society* 3 (4): 582–598. doi: 10.1179/006813859804829171
- Grolle R (1959c) Über *Herpocladium fissum* Mitt. Ein Nachtrag zu "Was ist *Pachyglossa*?". *Revue Bryologique et Lichénologique* 28 (3/4): 346–350.
- Grolle R (1960a) Notulae hepaticologicae I.-II.-III. *Revue Bryologique et Lichénologique* 29 (3/4): 207–211.
- Grolle R (1960b) Über *Plagiochila monoica* St., *P. carnosa* Herz. und *P. lobata* Kaal. und ihre Beziehungen zu *Pedinophyllum*. *Nova Hedwigia* 2: 287–291.
- Grolle R (1960c) Nachtrag zur "Revision der *Clasmatocolea*-Arten". *Revue Bryologique et Lichénologique* 29 (1/2): 68–91.
- Grolle R (1960d) Über *Saccogyna* Dum. und *Saccogynidium*, eine neue Lebermoosgattung. *Journal of the Hattori Botanical Laboratory* 23: 41–67.
- Grolle R (1961a) Notulae hepaticologicae IV.-V.-VI. *Revue Bryologique et Lichénologique* 30 (1/2): 80–84.
- Grolle R (1961b) *Tetracymbaliella*, eine neue Lebermoosgattung. *Nova Hedwigia* 3 (1): 47–53.
- Grolle R (1962a) Monographie der Lebermoosgattung *Leptoscyphus* Mitt. *Nova Acta Leopoldina* (n.ser.) 25 (161): 1–143.

- Grolle R (1962b) *Goebelobryum*, eine neue marsupiale Lebermoosgattung. Journal of the Hattori Botanical Laboratory 25: 135–144.
- Grolle R (1962c) Eine bemerkenswerte neue *Lophozia* aus Neuseeland. Revue Bryologique et Lichénologique 31 (3/4): 152–156.
- Grolle R (1963a) Zwei Gattungen der Lophoziaceae neu für Afrika. Transactions of the British Bryological Society 4 (3): 437–445. doi: 10.1179/006813863804812363
- Grolle R (1963b) Über *Kurzia* v. Martens. Revue Bryologique et Lichénologique 32 (3/4): 166–180.
- Grolle R (1963c) Ein neuer *Tylimanthus* aus Tasmanien. Nova Hedwigia 6 (3/4): 391–394.
- Grolle R (1963d) Notulae hepaticologicae VII–IX. Revue Bryologique et Lichénologique 32 (3/4): 157–165.
- Grolle R (1964a) Miscellanea hepaticologica 11–20. Journal of Japanese Botany 39 (6): 173–178.
- Grolle R (1964b) Eine *Nardia* aus Africa. Botanical Magazine, Tokyo 77 (914): 297–299. doi: 10.15281/jplantres1887.77.297
- Grolle R (1964c) Notulae hepaticologicae XV. Neue Notizen über *Kurzia* v. Mart. und Verwandte. Journal of Japanese Botany 39 (3): 79–81.
- Grolle R (1964d) Eine neue *Echinocolea* auf Celebes. Botanical Magazine, Tokyo 77 (915): 333–335. doi: 10.15281/jplantres1887.77.333
- Grolle R (1964e) *Neosioscophus* – eine neue Lebermoosgattung mit gedrehten Sporogonklappen. Österreichische Botanische Zeitschrift 111 (1): 19–36. doi: 10.1007/BF01373318
- Grolle R (1964f) Miscellanea hepaticologica 1–10. Österreichische Botanische Zeitschrift 111 (2/3): 185–192. doi: 10.1007/BF01373763
- Grolle R (1964g) Miscellanea hepaticologica 21–30. Journal of Japanese Botany 39 (8): 236–241.
- Grolle R (1964h) Über neue bemerkenswerte *Acromastigum*-arten. Österreichische Botanische Zeitschrift 111 (2/3): 240–256. doi: 10.1007/BF01373767
- Grolle R (1964i) *Jamesoniella carringtonii* – eine *Plagiochila* in Nepal mit Perianth. Transactions of the British Bryological Society 4 (4): 653–663. doi: 10.1179/006813864804812227
- Grolle R (1964j) Notulae hepaticologicae X–XIII. Revue Bryologique et Lichénologique 33 (1/2): 224–229.
- Grolle R (1965a) Die Lebermoosgattungen *Blepharidophyllum* Ångstr. und *Krunodiplophyllum* nov. gen. (Scapaniaceae). Journal of the Hattori Botanical Laboratory 28: 55–74.
- Grolle R (1965b) Lebermoose aus Neuguinea. 1. Journal of the Hattori Botanical Laboratory 28: 43–54.
- Grolle R (1965c) Über *Gymnanthe concinna* und *Lethocolea*. Botanical Magazine, Tokyo 78 (921): 79–84. doi: 10.15281/jplantres1887.78.79
- Grolle R (1965d) Miscellanea hepaticologica 41–50. Journal of Japanese Botany 40 (7): 206–219.
- Grolle R (1965e) Miscellanea hepaticologica 31–40. Journal of the Hattori Botanical Laboratory 28: 101–106.
- Grolle R (1965f) *Wettsteinia* Schifffn. Journal of the Hattori Botanical Laboratory 28: 94–100.
- Grolle R (1965g) *Harpanthus drummondii* – ein Lebermoosendemit des östlichen Nordamerika. Österreichische Botanische Zeitschrift 112 (3): 268–284. doi: 10.1007/BF01372951
- Grolle R (1966a) Eine neue Lebermoosgattung (Lophoziaceae) aus Nepal. Revue Bryologique et Lichénologique 34 (1/2): 187–190.

- Grolle R (1966b) Über *Diplasiolejeunea* in Asien. Feddes Repertorium 73 (2): 78–89. doi: 10.1002/fedr.19660730203
- Grolle R (1966c) Notulae hepaticologicae XIV. Zwei weitere *Neesioscyphus*-Arten. Revue Bryologique et Lichénologique 34 (1/2): 182–186.
- Grolle R (1966d) Miscellanea hepaticologica 61–70. Journal of Japanese Botany 41 (8): 225–232.
- Grolle R (1966e) Lebermoose aus Neuguinea. 3. *Stenolejeunea*. Journal of the Hattori Botanical Laboratory 29: 75–78.
- Grolle R (1966f) *Gymnomitrium crenulatum* und Verwandte. Transactions of the British Bryological Society 5 (1): 86–94. doi: 10.1179/006813866804804567
- Grolle R (1966g) Lebermoose aus Neuguinea. 5. *Telaranea*. Journal of the Hattori Botanical Laboratory 29: 279–289.
- Grolle R (1966h) Lebermoose aus Neuguinea. 4. *Schistochila*. Journal of the Hattori Botanical Laboratory 29: 238–252.
- Grolle R (1966i) Lebermoose aus Neuguinea. 2. Zweite Fundliste. Journal of the Hattori Botanical Laboratory 29: 70–74.
- Grolle R (1966j) *Herzogobryum* – eine beblätterte Lebermoosgattung mit dorsal verzahnten Merophyten. Österreichische Botanische Zeitschrift 113 (2): 220–234. doi: 10.1007/BF01441035
- Grolle R (1966k) Die Lebermoose Nepals. Khumbu Himal, Ergebnisse des Forschungsunternehmens Nepal Himalaya 1 (4): 262–298.
- Grolle R (1967a) Monographie der Lepidolaenaceae. Journal of the Hattori Botanical Laboratory 30: 1–53.
- Grolle R (1967b) Lebermoose aus Neuguinea. 6. Dritte Fundliste. Journal of the Hattori Botanical Laboratory 30: 113–118.
- Grolle R (1968a) Lebermoose aus Neuguinea. 7. Vierte Fundliste. Journal of the Hattori Botanical Laboratory 31: 1–12.
- Grolle R (1968b) Monographie der Gattung *Nowellia*. Journal of the Hattori Botanical Laboratory 31: 20–49.
- Grolle R (1968c) *Gottschelia* – eine neue Jungermanniales-Gattung der Paläotropis. Journal of the Hattori Botanical Laboratory 31: 13–19.
- Grolle R (1968d) Einige ostmalesische Lebermoose. Nova Hedwigia 16: 147–159.
- Grolle R (1969a) Miscellanea hepaticologica 101–110. Österreichische Botanische Zeitschrift 117 (1): 1–6. doi: 10.1007/BF01376933
- Grolle R (1969b) Miscellanea Hepaticologica (91–100). Transactions of the British Bryological Society 5 (4): 766–774. doi: 10.1179/006813869804146682
- Grolle R (1969c) Novae Guineae hepaticae Schusteranae. I. Journal of the Hattori Botanical Laboratory 32: 140–144.
- Grolle R (1970a) *Radula castlei* sp. nov. und Anmerkungen zur Gattung *Radula*. Bryologist 73 (4): 662–668. doi: 10.2307/3241278
- Grolle R (1970b) Eine neuen *Jackiella* aus Tasmanien. Journal of the Hattori Botanical Laboratory 33: 222–224.
- Grolle R (1970c) Lebermoose aus Neuguinea. 8. *Mastigopelma*. Journal of the Hattori Botanical Laboratory 33: 36–40.

- Grolle R (1971a) Die Lebermoose der Crozet-Inseln (Subantarktis). *Lindbergia* 1 (1/2): 80–82.
- Grolle R (1971b) *Jamesoniella* und Verwandte. *Feddes Repertorium* 82 (1): 1–100. doi: 10.1002/fedr.19710820102
- Grolle R (1971c) Lebermoose aus Neuguinea. 9. *Jungermannia nivea* sp. nov. *Miscellanea Bryologica et Lichenologica* 6 (1): 1–3.
- Grolle R (1971d) Hepaticopsida. In: van Zinderen Bakker Sr EM (Eds) Winterbottom JM, Dyer RA (eds.), Marion and Prince Edward Islands. Report on the South African Biological and Geological Expedition 1965–1966. A. A. Balkema, Cape Town, 228–236.
- Grolle R (1972a) *Miscellanea hepaticologica* 121–130. *Journal of the Hattori Botanical Laboratory* 36: 547–551.
- Grolle R (1972b) *Bazzania* in Europa und Makaronesien. Zur Taxonomie und Verbreitung. *Lindbergia* 1 (3/4): 193–204.
- Grolle R (1972c) Zur Kenntnis von *Adelanthus* Mitt. *Journal of the Hattori Botanical Laboratory* 35: 325–370.
- Grolle R (1973a) *Miscellanea hepaticologica* 131–140. *Herzogia* 3: 75–82.
- Grolle R (1973b) *Nephrolejeunea* - eine neue Gattung der Tuyamaelloideae. *Journal of the Hattori Botanical Laboratory* 37: 251–261.
- Grolle R (1974a) Eine neue *Taxilejeunea* aus Madagaskar und Reunion. *Journal of Bryology* 8 (1): 93–96. doi: 10.1179/jbr.1974.8.1.93
- Grolle R (1974b) Lebermoose aus Neuguinea. 12. *Rhaphidolejeunea*. *Journal of the Hattori Botanical Laboratory* 38: 651–655.
- Grolle R (1975a) *Diplasiolejeunea* in Australasien. *Feddes Repertorium* 86 (1/2): 75–82. doi: 10.1002/fedr.19750860108
- Grolle R (1975b) *Haplolejeunea* aus Madagascar – Eine weitere neue Gattung der Tuyamaelloideae. *Journal of the Hattori Botanical Laboratory* 39: 203–210.
- Grolle R (1975c) *Miscellanea hepaticologica* 151–160. *Lindbergia* 3 (1/2): 47–56.
- Grolle R (1975d) *Miscellanea hepaticologica* 141–150. *Journal of Bryology* 8 (4): 483–492. doi: 10.1179/jbr.1975.8.4.483
- Grolle R (1976a) Verzeichnis der Lebermoose Europas und benachbarter Gebiete. *Feddes Repertorium* 87 (3/4): 171–279. doi: 10.1002/fedr.19760870303
- Grolle R (1976b) Eine weitere *Siphonolejeunea* – *S. elegantissima* (Steph.) comb. nov. aus Australien. *Journal of the Hattori Botanical Laboratory* 41: 405–409.
- Grolle R (1976c) *Drepanolejeunea* subg. *Kolpolejeunea* – eine neue Untergattung aus der Palaeotropis. *Journal of the Hattori Botanical Laboratory* 40: 191–216.
- Grolle R (1977a) *Miscellanea hepaticologica* 161–170. *Journal of Bryology* 9 (4): 529–538. doi: 10.1179/jbr.1977.9.4.529
- Grolle R (1977b) *Pictolejeunea* – eine neue Gattung der Lejeuneoideae aus der Neotropis und Borneo. *Feddes Repertorium* 88 (4): 247–256. doi: 10.1002/fedr.19770880402
- Grolle R (1978a) Eine neue *Diplasiolejeunea*-Art aus Sri Lanka. *Feddes Repertorium* 89 (5/6): 301–305. doi: 10.1002/fedr.19780890502
- Grolle R (1978b) Lebermoose aus Neuguinea. 16. *Acromastigum*. *Journal of the Hattori Botanical Laboratory* 44: 1–15.

- Grolle R (1979a) Lebermoose aus Neuguinea. 17. *Harpalejeunea*. Journal of the Hattori Botanical Laboratory 46: 43–47.
- Grolle R (1979b) Miscellanea hepaticologica 171-180. Journal of Bryology 10 (3): 263–272. doi: 10.1179/jbr.1979.10.3.263
- Grolle R (1979c) Miscellanea hepaticologica 181-190. Journal of the Hattori Botanical Laboratory 45: 173–183.
- Grolle R (1979d) Miscellanea hepaticologica 191-200. Journal of the Hattori Botanical Laboratory 46: 337–355.
- Grolle R (1980a) *Nephelejeunea* in Australasien. Journal of the Hattori Botanical Laboratory 48: 161–170.
- Grolle R (1980b) *Schusterolejeunea* Grolle nom. nov. statt *Cladocolea* Schust. 1963, non van Tieghem 1895. Journal of Bryology 11 (1): 105–106. doi: 10.1179/jbr.1980.11.1.105
- Grolle R (1980c) Miscellanea hepaticologica 201-210. Journal of Bryology 11 (2): 325–334. doi: 10.1179/jbr.1980.11.2.325
- Grolle R (1980d) Zur Kenntnis der Lebermoose von Samoa. I. Wissenschaftliche Zeitschrift der Friedrich-Schiller-Universität Jena/Thüringen. Mathematisch-naturwissenschaftliche Reihe 29 (4): 637–648.
- Grolle R (1981) Miscellanea hepaticologica 211-220. Journal of the Hattori Botanical Laboratory 49: 85–92.
- Grolle R (1982) Übersicht der Lejeuneaceae in Tasmanien. Wissenschaftliche Zeitschrift der Friedrich-Schiller-Universität Jena/Thüringen. Mathematisch-naturwissenschaftliche Reihe 31 (2): 207–227.
- Grolle R (1983a) Hepatics of Europe including the Azores: an annotated list of species, with synonyms from the recent literature. Journal of Bryology 12 (3): 403–459. doi: 10.1179/jbr.1983.12.3.403
- Grolle R (1983b) Nomina generica hepaticarum; references, types and synonymies. Acta Botanica Fennica 121: 1–62.
- Grolle R (1984a) Miscellanea hepaticologica 221-230. Journal of the Hattori Botanical Laboratory 55: 501–511.
- Grolle R (1984b) Zur Kenntnis der Lejeuneoideae in Cuba (1): *Cyclolejeunea*. Wissenschaftliche Zeitschrift der Friedrich-Schiller-Universität Jena/Thüringen. Mathematisch-naturwissenschaftliche Reihe 33: 759–764.
- Grolle R (1984c) *Kymatolejeunea* Grolle – eine neue Gattung der Lejeuneoideae aus Neuseeland. Wissenschaftliche Zeitschrift der Friedrich-Schiller-Universität Jena/Thüringen. Mathematisch-naturwissenschaftliche Reihe 32 (6): 1005–1012.
- Grolle R (1985a) Zur Kenntnis der Lebermoosgattung *Otolejeunea*. Haussknechtia 2: 45–56.
- Grolle R (1985b) Miscellanea hepaticologica 231-240. Journal of the Hattori Botanical Laboratory 58: 197–202.
- Grolle R (1986a) Miscellanea hepaticologica 241-250. Journal of the Hattori Botanical Laboratory 61: 249–255.
- Grolle R (1986b) *Cololejeunea schaeferi* spec. nov., ein verkanntes Lebermoos in Makaronesien. Journal of Bryology 13 (4): 487–495. doi: 10.1179/jbr.1985.13.4.487

- Grolle R (1987) *Miscellanea hepaticologica* 251-260. *Journal of the Hattori Botanical Laboratory* 63: 437–443.
- Grolle R (1988a) Verzeichnis der Lebermoose von Ascension Island nebst Beschreibung von *Cheilolejeunea ascensionis* (Hook. f. et Tayl.) Grolle, comb. nov. *Haussknechtia* 4: 43–49.
- Grolle R (1988b) Zur Kenntnis der Lejeuneoideae in Cuba (2): *Lejeunea* subg. *Macrolejeunea* Spruce. *Wissenschaftliche Zeitschrift der Friedrich-Schiller-Universität Jena/Thüringen. Mathematisch-naturwissenschaftliche Reihe* 37: 169–176.
- Grolle R (1988c) *Miscellanea hepaticologica* 261-270. *Journal of the Hattori Botanical Laboratory* 65: 403–410.
- Grolle R (1989a) *Marsupidium* in Guyana. *Journal of the Hattori Botanical Laboratory* 66: 337–342.
- Grolle R (1989b) Über *Asterella* subg. *Brachyblepharis* in Lateinamerika. *Wissenschaftliche Zeitschrift der Friedrich-Schiller-Universität Jena/Thüringen. Mathematisch-naturwissenschaftliche Reihe* 38 (2): 231–239.
- Grolle R (1989c) A technically new lectotypification of *Harpalejeunea* (Hepaticae). *Taxon* 38 (1): 88–90. doi: 10.2307/1220901
- Grolle R (1989d) *Adelanthus* on Mt. Roraima. *Journal of the Hattori Botanical Laboratory* 67: 243–247.
- Grolle R (1989e) Two new species of *Cololejeunea* from Bhutan. *Journal of Bryology* 15 (2): 281–287. doi: 10.1179/jbr.1988.15.2.281
- Grolle R (1991) *Miscellanea hepaticologica* 281-290. *Journal of the Hattori Botanical Laboratory* 69: 185–194.
- Grolle R (1992a) Zwei neue Arten der Lebermoosgattung *Diplasiolejeunea* aus der Neotropis. *Beiträge zur Phytotaxonomie* 15: 105–110.
- Grolle R (1992b) *Austrolejeunea jarmaniana*, a new species of hepaticae from Tasmania. *Nova Hedwigia* 55 (1/2): 111–117.
- Grolle R (1995) The hepaticae and anthocerotae of the East African Islands. An annotated catalogue. *Bryophytorum Bibliotheca* 48: 1–178.
- Grolle R (2001) *Miscellanea hepaticologica* 291-300. *Haussknechtia* 8: 59–69.
- Grolle R (2002) Two new synonyms of *Metzgeria furcata* (L.) Dumort. *Cryptogamie, Bryologie* 23 (3): 209–210.
- Grolle R, Gradstein SR (1988) *Haesselia*, a new genus of Cephaloziaceae (Hepaticae) from Mt. Roraima, Guyana. *Journal of the Hattori Botanical Laboratory* 64: 327–334.
- Grolle R, Heinrichs J (1999) Redescription and synonymy of *Plagiochila aerea* Taylor 1846 (Hepaticae), first described as *Lycopodium pinnatum* by Lamarck 1792. *Nova Hedwigia* 68: 511–526.
- Grolle R, Long DG (2000) An annotated check-list of the hepaticae and anthocerotae of Europe and Macaronesia. *Journal of Bryology* 22 (2): 103–140. doi: 10.1179/jbr.2000.22.2.103
- Grolle R, Onraedt M (1974) Lebermoose aus Madagaskar und den Maskarenen (1). *Lindbergia* 2 (3/4): 230–233.
- Grolle R, Persson H (1966) Die Gattung *Tylimanthus* auf den Atlantischen Inseln. *Svensk Botanisk Tidskrift* 60 (1): 164–174.

- Grolle R, Piippo S (1984) Annotated catalogue of Western Melanesian bryophytes. I. Hepaticae and Anthocerotae. *Acta Botanica Fennica* 125: 1–86.
- Grolle R, Piippo S (1986) Bryophyte flora of the Huon Peninsula, Papua New Guinea. XVI. Pallaviciniaceae (Hepaticae). *Acta Botanica Fennica* 133: 59–79.
- Grolle R, Piippo S (1990) Bryophyte flora of the Huon Peninsula, Papua New Guinea. XXXVII. *Leucolejeunea* (Lejeuneaceae, Hepaticae). *Annales Botanici Fennici* 27 (2): 119–129.
- Grolle R, Reiner-Drehwald ME (1997) *Cheilolejeunea oncophylla* (Ångstr.) Grolle & Reiner comb. nov. (Lejeuneaceae), from the neotropics. *Journal of Bryology* 19 (4): 781–785. doi: 10.1179/jbr.1997.19.4.781
- Grolle R, Reiner-Drehwald ME (1999) Review of the genus *Harpalejeunea* (Lejeuneaceae) including the description of *H. grandis*, a new species from the páramos of Colombia. *Journal of Bryology* 21 (1): 31–45. doi: 10.1179/jbr.1999.21.1.31
- Grolle R, Reiner-Drehwald ME (2005) *Pictolejeunea levis*, a new species of Lejeuneaceae (Jungermanniopsida) from Cuba. *Journal of Bryology* 27 (3): 281–283. doi: 10.1179/174328205X70038
- Grolle R, Schultze-Motel W (1972) Vorläufiges Verzeichnis der Lebermoose von Samoa. *Journal of the Hattori Botanical Laboratory* 36: 75–89.
- Grolle R, Seppelt RD (1986) *Seppeltia*, a new leafy genus of Metzgeriales from Macquarie Island. *Journal of the Hattori Botanical Laboratory* 60: 275–282.
- Grolle R, So ML (1997a) *Plagiochila bischleriana*, a new species from Nepal. *Cryptogamie: Bryologie, Lichénologie* 18 (3): 191–193.
- Grolle R, So ML (1997b) Studies on *Plagiochila* in China. I. *Bryologist* 100 (4): 467–477. doi: 10.2307/3244409
- Grolle R, So ML (1998a) Studies on *Plagiochila* in China. II. *Bryologist* 101 (2): 282–294. doi: 10.2307/3244206
- Grolle R, So ML (1998b) Notes on *Plagiochila* sect. *Caducilobae* in East Asia. *Systematic Botany* 23 (4): 459–465. doi: 10.2307/2419377
- Grolle R, So ML (1998c) *Plagiochila caulimammillosa*, a peculiar new species from Yunnan, China. *Journal of Bryology* 20 (1): 41–49.
- Grolle R, So ML (1999a) Studies of *Plagiochila* sect. *Subtropicae* in Asia. *Bryologist* 102 (1): 67–75. doi: 10.2307/3244462
- Grolle R, So ML (1999b) On the *Plagiochila* species of sect. *Zonatae* with paraphyllia or mamilllose stems (Hepaticae). *Systematic Botany* 24 (3): 297–310. doi: 10.2307/2419690
- Grolle R, So ML (1999c) Studies on *Plagiochila* in China. III. *Bryologist* 102 (2): 200–207. doi: 10.2307/3244360
- Grolle R, So ML (2000) Notes on *Plagiochila* section *Firmae* (Hepaticae). *Systematic Botany* 25 (1): 5–14. doi: 10.2307/2666668
- Grolle R, Vána J (1992) Eine neue *Jungermannia* (Hepaticae, Jungermanniaceae) aus Nepal. *Fragmenta Floristica et Geobotanica* 37 (1): 3–6.
- Grolle R, Vanden Berghen C (1970) Une genre nouveau pour la famille Cephaloziellaceae: *Cephalojonesia* Grolle. *Revue Bryologique et Lichénologique* 37 (4): 763–768.
- Grolle R, Zhu R-L (1999) *Drepanolejeunea longii* (Lejeuneaceae, Hepaticae), a new species from Bhutan. *Annales Botanici Fennici* 36 (2): 115–118.

- Grolle R, Zhu R-L (2000) A study of *Drepanolejeunea* subg. *Rhaphidolejeunea* (Herzog) Grolle & R.L.Zhu, stat. nov. (Hepaticae, Lejeuneaceae) in China with notes on its species elsewhere. *Nova Hedwigia* 70 (3/4): 373–396.
- Grolle R, Zhu R-L (2002) On *Macrocolura* and the subdivision of *Colura* (Lejeuneaceae, Hepaticae). *Journal of the Hattori Botanical Laboratory* 92: 181–190.
- Grolle R, Zhu R-L, Gradstein SR (2001) On *Cyrtolejeunea* A. Evans (Lejeuneaceae, Hepaticae). *Taxon* 50 (4): 1067–1074. doi: 10.2307/1224721
- Grolle R, Schill DB, Long DG (2003) Notes on *Gottscheia* (Jungermanniales, Lophoziales), with a description of *G. patoniae*, a new species from the East Himalaya. *Journal of Bryology* 25 (1): 3–6. doi: 10.1179/037366803125002608
- Haarbrink J (1981) Studies on Colombian cryptogams. XI. High Andean species of *Frullania* subg. *Chonanthelia* (Hepaticae). *Lindbergia* 7 (1): 47–57.
- Hagborg A, Söderström L, von Konrat M (2013) Notes on Early Land Plants Today. 42. Validation of *Nanomarsupella* (Gymnomitriaceae, Marchantiophyta). *Phytotaxa* 112 (1): 16–17. doi: 10.11646/phytotaxa.112.1.3
- Hallingbäck T, Hodgetts N (2000) Mosses, liverworts, and hornworts. Status survey and conservation action plan for bryophytes. International Union for Conservation of Nature, Gland, 106 pp.
- Hamlin BG (1972) Hepaticae of New Zealand, parts I and II. Index of binomials and preliminary checklist. *Records of the Dominion Museum* 7: 243–366.
- Hampe E (1836) *Prodromus florum Hercyniae*. Gebauerschen Buchdruckerei, Halle, 90 pp. doi: 10.5962/bhl.title.6713
- Hampe E (1847) Berichte über die Hepaticae, welche Hr. Moritz in Columbien sammelte und dem königlichen Herbarium in Schönberg überlieferte, nach Synopsis hepaticarum und den Moritzschen Nummern aufgeführt. *Linnaea* 20 (3): 321–336.
- Hampe E (1851a) Hepaticae Oerstedianae (continuatio et finis). *Linnaea* 24 (6): 640–641.
- Hampe E (1851b) Hepaticae Oerstedianae. *Linnaea* 24 (3): 300–304.
- Hampe E (1854) *Plantae quaedam Lechlerianae*. Enumeratio hepaticarum, quae in Sectione II. plantarum chilensium et in pl. peruvianis W. Lechler collectis et a R. J. Hohenacker editis occurrunt. *Linnaea* 27 (5): 553–556.
- Hampe E, Gottsche CM (1852) *Expositio hepaticarum Portoricensium, quas collegit Schwanecke, hortulanus*. *Linnaea* 25 (3): 337–358.
- Hartman CJ (1838) *Handbok i Skandinavien flora, tredje upplagan*. Söderna delen: floran. Zacharias Hæggströms förlag, Stockholm, 350 pp.
- Hartman CJ (1864) *Handbok i Skandinavien flora, nionde upplagan, södra delen: mossor*. Zacharias Hæggströms förlag, Stockholm, 120 pp. doi: 10.5962/bhl.title.9746
- Hartman CJ (1871) *Handbok i Skandinavien flora, tionde upplagan, södra delen: mossor*. Zacharias Hæggströms förlag, Stockholm, 179 pp.
- Hartmann FA, Wilson R, Gradstein SR, Schneider H, Heinrichs J (2006) Testing hypothesis on species delimitations and disjunctions in the liverwort *Bryopteris* (Jungermanniopsida: Lejeuneaceae). *International Journal of Plant Sciences* 167 (6): 1205–1214. doi: 10.1086/508023
- Hasegawa J (1979) Taxonomical studies on Asian anthocerotae. I. *Acta Phytotaxonomica et Geobotanica* 30 (1/3): 15–30.

- Hasegawa J (1980) Taxonomical studies on Asian anthocerotae. II. Some Asian species of *Dendroceros*. *Journal of the Hattori Botanical Laboratory* 47: 287–309.
- Hasegawa J (1984) Taxonomical studies on Asian anthocerotae. IV. A revision of the genera *Anthoceros*, *Phaeoceros* and *Folioceros* in Japan. *Journal of the Hattori Botanical Laboratory* 57: 241–272.
- Hasegawa J (1986a) A collection of the Anthocerotae from Seram and Ambon. *Acta Phytotaxonomica et Geobotanica* 37 (1/3): 9–15.
- Hasegawa J (1986b) The anthocerotae collected by Drs. Z. Iwatsuki and N. Kitagawa in New Caledonia and Fiji. *Journal of the Hattori Botanical Laboratory* 60: 379–390.
- Hasegawa J (1993a) Taxonomic results of the BRYOTROP expedition to Zaire and Rwanda. 5. Anthocerotae. *Tropical Bryology* 8: 51–52.
- Hasegawa J (1993b) Taxonomical studies on Asian anthocerotae. V. A short revision of Taiwanese anthocerotae. *Acta Phytotaxonomica et Geobotanica* 44 (2): 97–112.
- Hasegawa J (1994a) A remarkable new species of *Phaeoceros* (Anthocerotae) with canaliculate-striate spore surface. *Journal of the Hattori Botanical Laboratory* 75: 267–273.
- Hasegawa J (1994b) New classification of anthocerotae. *Journal of the Hattori Botanical Laboratory* 76: 21–34.
- Hasegawa J (2001) A new species of *Phaeoceros* with remarkable spore features from southeast Asia. *Bryological Research* 7 (12): 373–377.
- Hässel GG (1961) Una nueva especie de un género nuevo para Argentina: *Cyathodium steerei*. *Revue Bryologique et Lichénologique* 30 (3/4): 223–231.
- Hässel GG (1962) Estudio de las Anthocerotales y Marchantiales de la Argentina. *Opera Lilloana* 7: 1–298.
- Hässel GG (1972a) Revisión taxonómica del género *Riccardia* (Hepaticae). Especies andinopagónicas y subantárticas incluyendo las Islas Juan Fernández, Malvinas, Georgias del Sur, etc. *Revista del Museo Argentino de Ciencias Naturales “Bernardino Rivadavia” e Instituto Nacional de Investigación de las Ciencias Naturales: Ciencias Botánicas* 4 (1): 1–242.
- Hässel GG (1972b) *Riella gamundiae* Hässel n. sp. (Hepaticae) la segunda especie del género hallada en Sudamérica. *Revue Bryologique et Lichénologique* 38 (3/4): 579–586.
- Hässel GG (1974) Hepaticae Fugianae II-III. *Comunicaciones del Museo Argentino de Ciencias Naturales “Bernardino Rivadavia” e Instituto Nacional de Investigación de las Ciencias Naturales: Ciencias Botánicas* 2 (9): 45–51.
- Hässel GG (1979) *Riella pampae* Hässel n. sp. (Hepaticae) la tercera especie del género hallada en Sudamérica. *Revista del Museo Argentino de Ciencias Naturales “Bernardino Rivadavia” e Instituto Nacional de Investigación de las Ciencias Naturales: Ciencias Botánicas* 5 (9): 205–211.
- Hässel GG (1980) Liverworts new to South Georgia II. *Journal of Bryology* 11 (1): 107–128. doi: 10.1179/jbr.1980.11.1.107
- Hässel GG (1981) Patagonian bryophytes. 2. On *Herzogiaria teres* (Steph.) Fulf. ex Hässel. *Lindbergia* 7 (1): 23–26.
- Hässel GG (1983) Informaciones nomenclaturales sobre las especies del género *Plagiochila* (Hepaticae) de Argentina y Chile. *Boletín de la Sociedad Argentina de Botánica* 22 (1/4): 87–129.

- Hässel GG (1986a) *Leiosporoceros* Hässel n. gen. and Leiosporocerotaceae Hässel n. fam. of the Anthocerotopsida. *Journal of Bryology* 14 (2): 255–259. doi: 10.1179/jbr.1986.14.2.255
- Hässel GG (1986b) Neue Lebermoosfunde aus dem Nordosten Argentiniens – New findings of hepaticae from northeastern Argentina – Hallazgos nuevos de hepáticas en el nordeste de la Argentina. *Veröffentlichungen des Geobotanischen Institutes der ETH, Stiftung Rübél, Zürich* 91: 293–304.
- Hässel GG (1987) Progress with knowledge of the submerged genus *Riella* (Hepaticae) in Argentina. *Symposia Biologica Hungarica* 35: 335–342.
- Hässel GG (1988) Patagonian bryophytes. 10. *Pisanoa chilensis* Hässel, a new genus and species of Jungermanniaceae (Hepatophyta). *Lindbergia* 14 (3): 179–182.
- Hässel GG (1989a) Las especies de *Phaeoceros* (Anthocerotophyta) de América del Norte, Sud y Central; la ornamentación de sus esporas y taxonomía. *Candollea* 44 (2): 715–739.
- Hässel GG (1989b) *Perdusenina rheophila* Hässel, a new genus and species of Hepatophyta from southern South America. *Revista del Museo Argentino de Ciencias Naturales “Bernardino Rivadavia” e Instituto Nacional de Investigación de las Ciencias Naturales: Ciencias Botánicas* 7 (2): 11–17.
- Hässel GG (1990a) Patagonian bryophytes. 11. On *Arctoscyphus ronsmithii* Hässel (Hepatophyta), a new genus and species, with comments on *Pedinophyllopsis* Schust. et Inoue. *Lindbergia* 16 (4): 133–137.
- Hässel GG (1990b) Las especies de *Anthoceros* y *Folioceros* (Anthocerotophyta) de América del Norte, Sud y Central: la ornamentación de sus esporas y taxonomía. *Candollea* 45 (1): 201–220.
- Hässel GG (1996) La ubicación taxonómica de *Leioscyphus repens* Mitt. var. *β fuegiensis* Mass. (Hepaticophyta). *Cryptogamie: Bryologie, Lichénologie* 17 (3): 163–170.
- Hässel GG (1999) *Chiloscyphus* subgenus *Phaeochiloscyphus* (Hepatophyta, Geocalycaceae) from southern South America. *Revista del Museo Argentino de Ciencias Naturales (Nueva serie)* 1 (2): 121–127.
- Hässel GG (2000) *Parachiloscyphus* Hässel, a new subgenus of *Chiloscyphus* Corda (Hepatophyta) from southern South America, including a new species. *Nova Hedwigia* 70 (3/4): 451–460.
- Hässel GG (2001) Revision of the genus *Leptoscyphus* Mitt. (Hepatophyta) from southern South America. *Journal of the Hattori Botanical Laboratory* 91: 205–227.
- Hässel GG (2002) One new combination and one new species in *Leiomitra* (Trichocoleaceae, Hepatophyta) from southern South America. *Novon* 12 (4): 465–470. doi: 10.5962/bhl.title.744
- Hässel GG (2005) On *Chiloscyphus aphelophyllus* Hässel, sp. nov. and *C. apophyllus* Hässel, sp. nov. (Marchantiophyta, Geocalycaceae) from Chile. *Journal of the Hattori Botanical Laboratory* 98: 123–129.
- Hässel GG (2006a) *Paraphymatoceros* Hässel, gen. nov. (Anthocerotophyta). *Phytologia* 88 (2): 208–211.
- Hässel GG (2006b) *Aneura polyclada*, *A. polyptera* and *A. denticulata* (Aneuraceae) from South America, overlooked names since 1886. *Bryologist* 109 (1): 33–37. doi: 10.1639/0007-2745(2006)109[0033:APAPAA]2.0.CO;2

- Hässel GG (2009) Andinopatagonian species of *Plagiochila* (Plagiochilaceae, Marchantiophyta) Sectio I. *Duseniae* Carl emend. Hässel and sectio II. *Jacquinothiae* Hässel sect. nov. *Nova Hedwigia* 89 (1/2): 71–95. doi: 10.1127/0029-5035/2009/0089-0071
- Hässel GG, Rubies MF (2009) Catalogue of Marchantiophyta and Anthocerotophyta of southern South America. *Beihefte zur Nova Hedwigia* 134: 1–672.
- Hässel GG, Solari SS (1970) Consideraciones sobre el género *Austrolophozia* (Hepaticae). *Revista del Museo Argentino de Ciencias Naturales “Bernardino Rivadavia” e Instituto Nacional de Investigación de las Ciencias Naturales: Ciencias Botánicas* 3 (6): 239–247.
- Hässel GG, Solari SS (1972) Sinopsis de las especies andinopatagónicas del género *Tylimanthus* (Hepaticae). *Darwiniana* 17: 568–591.
- Hässel GG, Solari SS (1975) Bryophyta Hepaticopsida: Calobryales, Jungermanniales: Vetaformaceae, Balantiopsidaceae. In: Guarrera SA (Ed.) *Gamundi de Amos I, Rabinovich de Halperin D, Flora Criptogámica de Tierra del Fuego*. 15, Fasc. 1. Fundación para la Educación, la Ciencia y la Cultura, Buenos Aires, 7–181.
- Hässel GG, Solari SS (1985) Catálogo de las hepáticas. In: Boelcke O, Moore DM, Roig FA (Eds) *Transecta Botánica de la Patagonia Austral*. CONICET, Buenos Aires, 299–342.
- Hässel GG, Villagrán C (2007) New species of *Fossombronia* (Hepatophyta, Fossombroniopsida) from Chile. *Beihefte zur Nova Hedwigia* 131: 13–20.
- Hatcher RE (1957) The genus *Trichocolea* in North, Central and South America – (Hepaticae). *Lloydia* 20 (3): 139–185.
- Hattori S (1941) Notulae de hepaticis japonicis (I). *Journal of Japanese Botany* 17: 457–466.
- Hattori S (1942) Notulae de hepaticis japonicis (IV). *Journal of Japanese Botany* 18 (11): 653–660.
- Hattori S (1943a) [Ricciaceae nipponicae]. *Natural Science and Museum* 14 (6): 138–143.
- Hattori S (1943b) Notulae de hepaticis japonicis (VI). *Journal of Japanese Botany* 19 (11): 345–356.
- Hattori S (1943c) Notulae de hepaticis japonicis (V). *Journal of Japanese Botany* 19 (7): 197–202.
- Hattori S (1944a) Hepaticarum species novae et minus cognitae Nipponenses. III. *Botanical Magazine, Tokyo* 58 (686): 38–46. doi: 10.15281/jplantres1887.58.38
- Hattori S (1944b) Hepaticarum species novae et minus cognitae Nipponenses. II. *Botanical Magazine, Tokyo* 58 (685): 1–7. doi: 10.15281/jplantres1887.58.1
- Hattori S (1944c) Notula de hepaticis japonicis (VII). *Journal of Japanese Botany* 20: 103–112.
- Hattori S (1944d) Contributio ad floram hepaticarum austro-kiushiuensem. *Bulletin of the Tokyo Science Museum* 11: 1–203.
- Hattori S (1946) Hepaticarum species novae et minus cognitae nipponenses. V. *Botanical Magazine, Tokyo* 59 (693/694): 25–31. doi: 10.15281/jplantres1887.59.25
- Hattori S (1947a) [Five new genera of Hepaticae]. *Biosphaera* 1 (1): 3–7.
- Hattori S (1947b) Contributio ad floram hepaticarum yakusimensis. II. *Journal of the Hattori Botanical Laboratory* 2: 1–26.
- Hattori S (1948a) Hepaticarum species novae vel minus cognitae Nipponenses. VI. *Journal of the Hattori Botanical Laboratory* 3: 37–52.

- Hattori S (1948b) *Contributio ad floram hepaticarum yakusimensem*. III. *Journal of the Hattori Botanical Laboratory* 3: 1–35.
- Hattori S (1949) [A new species of *Riccia* found in prov. Shansi, north China]. *Botanical Magazine, Tokyo* 62 (733/734): 109. doi: 10.15281/jplantres1887.62.109
- Hattori S (1950) *Contributio ad floram hepaticarum yakusimensem*. IV. *Journal of the Hattori Botanical Laboratory* 4: 49–70.
- Hattori S (1951a) *Contributio ad floram hepaticarum yakusimensem*. VI. *Journal of the Hattori Botanical Laboratory* 6: 7–23.
- Hattori S (1951b) Oil bodies of Japanese hepaticae (1). *Journal of the Hattori Botanical Laboratory* 5: 69–97.
- Hattori S (1951c) On a small collection of hepaticae from Dutch New Guinea. *Botanical Magazine, Tokyo* 64 (755/756): 112–119. doi: 10.15281/jplantres1887.64.112
- Hattori S (1951d) *Contributio ad floram hepaticarum yakusimensem*. V. *Journal of the Hattori Botanical Laboratory* 5: 43–68.
- Hattori S (1952a) *Hepaticarum species novae et minus cognitae nipponenses*. VII. *Botanical Magazine, Tokyo* 65 (763/764): 13–17. doi: 10.15281/jplantres1887.65.13
- Hattori S (1952b) *Notulae de hepaticis japonicis* (15). *Journal of Japanese Botany* 27 (2): 53–59.
- Hattori S (1952c) *Hepaticae of Shikoku and Kyushu, southern Japan* (2). *Journal of the Hattori Botanical Laboratory* 8: 21–46.
- Hattori S (1953a) Notes on little known Japanese species of hepaticae (3). *Journal of Japanese Botany* 28 (8): 231–235.
- Hattori S (1953b) *Notulae de hepaticis japonicis* (17). *Journal of Japanese Botany* 28 (6): 181–185.
- Hattori S (1953c) *Hepaticae novae vel minus cognitae Nipponenses* (8). *Journal of the Hattori Botanical Laboratory* 10: 35–48.
- Hattori S (1954) *Hepaticae japonicae exsiccatae, ser. 1-6*. *Journal of the Hattori Botanical Laboratory* 12: 76–90.
- Hattori S (1955) A remarkable *Frullania* species from northern Japan. *Feddes Repertorium Specierum Novarum Regni Vegetabilis* 58: 53–54.
- Hattori S (1956a) *Notula de hepaticis japonicis*, 18. *Journal of Japanese Botany* 31 (7): 201–204.
- Hattori S (1956b) *Hepaticae japonicae exsiccatae, ser. 8*. *Journal of the Hattori Botanical Laboratory* 17: 75.
- Hattori S (1957a) *Hepaticae of Hayachine Mountain with special reference to Hepaticae occurring on serpentine rocks*. *Journal of the Hattori Botanical Laboratory* 18: 106–118.
- Hattori S (1957b) *Hepaticae of Hokkaido. II: Rishiri and Rebun Islands*. *Journal of the Hattori Botanical Laboratory* 18: 78–92.
- Hattori S (1957c) [A short review of some genera of Japanese Lejeuneaceae]. *Miscellanea Bryologica et Lichenologica* 1 (14): 1–2.
- Hattori S (1964) A remarkable *Saccogynidium* (liverwort) from north Borneo. *Journal of Japanese Botany* 39 (7): 206–208.
- Hattori S (1966a) A remarkable *Anastrophyllum* (Hepaticae) from New Guinea. *Botanical Magazine, Tokyo* 79 (937): 342–344. doi: 10.15281/jplantres1887.79.342

- Hattori S (1966b) A remarkable *Balantiopsis* found in tropical Asia. *Journal of Japanese Botany* 41 (5): 129–133.
- Hattori S (1966c) Anthocerotae and hepaticae. In: Hara H (Ed.) *The flora of Eastern Himalaya. Results of the botanical expedition to eastern Himalaya organized by the University of Tokyo 1960 and 1963.* University of Tokyo Press, Tokyo, 501–536.
- Hattori S (1966d) Hepaticae and anthocerotae of Mt. Chokai, northern Japan. *Journal of the Hattori Botanical Laboratory* 29: 267–278.
- Hattori S (1967) Studies of the Asiatic species of the genus *Porella* (Hepaticae). I. Some new or little known Asiatic species of *Porella*. *Journal of the Hattori Botanical Laboratory* 30: 129–151.
- Hattori S (1968) Hepaticae collected by F. Schmid in Ceylon and Pakistan. *Candollea* 23: 287–294.
- Hattori S (1969) Studies of the Asiatic species of the genus *Porella* (Hepaticae). II. *Journal of the Hattori Botanical Laboratory* 32: 319–359.
- Hattori S (1970) Studies of the Asiatic species of the genus *Porella* (Hepaticae). III. *Journal of the Hattori Botanical Laboratory* 33: 41–87.
- Hattori S (1971a) Hepaticae. In: Hara H (Ed.) *Flora of Eastern Himalaya, second report.* Bulletin, University Museum, University of Tokyo 2: 222–240.
- Hattori S (1971b) Studies of the Asiatic species of the genus *Porella* (Hepaticae). IV. *Journal of the Hattori Botanical Laboratory* 34: 411–428.
- Hattori S (1972a) *Frullania tamarisci* complex and the species concept. *Journal of the Hattori Botanical Laboratory* 35: 202–251.
- Hattori S (1972b) Novae Guineae hepaticae Schusteranae. III. Species novae *Frullaniae*. *Journal of the Hattori Botanical Laboratory* 36: 411–443.
- Hattori S (1972c) Notes on the Asiatic species of the genus *Frullania*, Hepaticae. I. *Journal of the Hattori Botanical Laboratory* 36: 109–140.
- Hattori S (1973a) Notes on the Asiatic species of the genus *Frullania*, Hepaticae. II. *Journal of the Hattori Botanical Laboratory* 37: 55–84.
- Hattori S (1973b) Notes on the Asiatic species of the genus *Frullania*, Hepaticae. IV. *Journal of the Hattori Botanical Laboratory* 37: 121–152.
- Hattori S (1973c) Notes on the Asiatic species of the genus *Frullania*, Hepaticae. III. *Journal of the Hattori Botanical Laboratory* 37: 85–120.
- Hattori S (1974a) *Frullania* taxa in the Philippine collection made by Dr. and Mrs. A. J. Sharp and Dr. Z. Iwatsuki. *Journal of the Hattori Botanical Laboratory* 38: 169–183.
- Hattori S (1974b) A peculiar Bornean species of *Frullania*, Hepaticae. *Bulletin of the National Science Museum, Tokyo (n.ser.)* 17 (4): 307–310.
- Hattori S (1974c) Notes on the Asiatic species of the genus *Frullania*, hepaticae. VI. *Journal of the Hattori Botanical Laboratory* 38: 223–274.
- Hattori S (1974d) Notes on the Asiatic species of the genus *Frullania*, hepaticae. V. *Journal of the Hattori Botanical Laboratory* 38: 185–221.
- Hattori S (1975a) A remarkable species of *Frullania* (Hepaticae) from Java. *Journal of Japanese Botany* 50 (6): 161–163.
- Hattori S (1975b) Mr. M. Togashi's collection of *Frullania* (Hepaticae), made in Malay Peninsula. *Bulletin of the National Science Museum, Tokyo. Series B, Botany* 1 (3): 109–120.

- Hattori S (1975c) Studies of the Asiatic species of the genus *Porella* (Hepaticae). V. Journal of the Hattori Botanical Laboratory 39: 269–276.
- Hattori S (1975d) Notes on the Asiatic species of the genus *Frullania*, hepaticae. VII. Journal of the Hattori Botanical Laboratory 39: 277–313.
- Hattori S (1975e) Bryophyta, anthocerotae & hepaticae. In: Ohashi H (Ed.) Flora of Eastern Himalaya. Bulletin, University Museum, University of Tokyo 8: 1–458.
- Hattori S (1975f) Notes on the Asiatic species of the genus *Frullania*, hepaticae. VIII. Bulletin of the National Science Museum, Tokyo. Series B, Botany 1 (4): 141–163.
- Hattori S (1975g) A revision of Indian species of *Frullania* (Hepaticae) published by W. Mitten in 1861. Bulletin of the National Science Museum, Tokyo. Series B, Botany 1 (2): 73–81.
- Hattori S (1976a) A remarkable New Caledonian species of *Frullania* (Hepaticae). Journal of Japanese Botany 51 (7): 193–198.
- Hattori S (1976b) Notes on some species of the New Caledonian Frullaniaceae (Hepaticae). Bulletin of the National Science Museum, Tokyo. Series B, Botany 2 (3): 79–86.
- Hattori S (1976c) A new species of *Porella* (Hepaticae) from Hawaii. Miscellanea Bryologica et Lichenologica 7 (5): 85–87.
- Hattori S (1976d) Notes on the Asiatic species of the genus *Frullania*, hepaticae. X. Journal of the Hattori Botanical Laboratory 40: 461–507.
- Hattori S (1976e) A new species of *Frullania* (Hepaticae) from the Philippines. In: Kachroo P (Ed.) Recent advances in Botany. Bishen Singh Madendra Pal Singh, Dehra Dun, 66–69.
- Hattori S (1976f) Studies of the Asiatic species of the genus *Porella* (Hepaticae). VI. Journal of the Hattori Botanical Laboratory 40: 121–138.
- Hattori S (1977a) *Frullania* Memoranda, I. Miscellanea Bryologica et Lichenologica 7 (8): 162–163.
- Hattori S (1977b) Dr. H. Hürlimann's collections of New Caledonian Frullaniaceae. Journal of the Hattori Botanical Laboratory 43: 409–438.
- Hattori S (1978a) Studies of the Asiatic species of the genus *Porella* (Hepaticae). VII. A synopsis of Asiatic Porellaceae. Journal of the Hattori Botanical Laboratory 44: 91–120.
- Hattori S (1978b) Notes on the Asiatic species of the genus *Frullania*, hepaticae. XI. Journal of the Hattori Botanical Laboratory 44: 525–554.
- Hattori S (1979a) A revision of the Australasian species of the genus *Frullania*, hepaticae. II. Journal of the Hattori Botanical Laboratory 46: 119–153.
- Hattori S (1979b) A revision of the Australasian species of the genus *Frullania*, hepaticae. I. Journal of the Hattori Botanical Laboratory 45: 323–363.
- Hattori S (1979c) Corrections of names of *Porella* taxa. Miscellanea Bryologica et Lichenologica 8 (4): 79.
- Hattori S (1980a) A revision of the subgenus *Homotropantha* of the genus *Frullania*, hepaticae. Journal of the Hattori Botanical Laboratory 47: 165–236.
- Hattori S (1980b) Dr. H. Inoue's *Frullania* collection made in Formosa. Bulletin of the National Science Museum, Tokyo. Series B, Botany 6 (1): 33–40.
- Hattori S (1980c) Notes on *Frullania* species of Iriomote and Ishigaki Islands, the Ryukyu Archipelago. Journal of Japanese Botany 55 (5): 132–135.
- Hattori S (1980d) Notes on the Asiatic species of the genus *Frullania*, hepaticae. XII. Journal of the Hattori Botanical Laboratory 47: 85–125.

- Hattori S (1981a) Notes on the Asiatic species of the genus *Frullania*, hepaticae. XIII. Journal of the Hattori Botanical Laboratory 49: 147–168.
- Hattori S (1981b) Notes on the Pacific species of Frullaniaceae (Hepaticae), I. Journal of the Hattori Botanical Laboratory 49: 359–383.
- Hattori S (1982a) Corrections and additions to “A synopsis of New Guinean *Frullania*”. *Miscellanea Bryologica et Lichenologica* 9 (6): 123–125.
- Hattori S (1982b) Asian taxa of the *Frullania dilatata* complex. *Journal of Japanese Botany* 57 (9): 257–260.
- Hattori S (1982c) A small collection of *Frullania* from Yunnan and Sichuan (=Szechwan). *Bulletin of the National Science Museum, Tokyo. Series B, Botany* 8 (3): 93–100.
- Hattori S (1982d) A synopsis of New Guinean *Frullania*, hepaticae. *Journal of the Hattori Botanical Laboratory* 51: 203–271.
- Hattori S (1983) A revision of the Australasian species of the genus *Frullania*, hepaticae. III. *Journal of the Hattori Botanical Laboratory* 54: 133–182.
- Hattori S (1984a) New Caledonian Frullaniaceae. *Journal of the Hattori Botanical Laboratory* 57: 405–426.
- Hattori S (1984b) A new species of *Frullania* from Bonin Islands. *Journal of Japanese Botany* 59 (10): 308–311.
- Hattori S (1984c) Dr. Marie L. Hicks’ *Frullania* collection made in northern Queensland. *Cryptogamie: Bryologie, Lichénologie* 5 (1/2): 177–189.
- Hattori S (1985) A small collection of *Frullania* and *Porella* (Hepaticae) made on Viti Levu, Fiji Islands. *Bulletin of the National Science Museum, Tokyo. Series B, Botany* 11 (1): 11–17.
- Hattori S (1986a) New Zealand *Porella* species. *Bulletin of the National Science Museum, Tokyo. Series B, Botany* 12 (1): 31–36.
- Hattori S (1986b) *Frullania* collection made by Dr. H. Akiyama on Seram Island. *Journal of the Hattori Botanical Laboratory* 60: 239–253.
- Hattori S (1986c) Notes on the Asiatic species of the genus *Frullania*, hepaticae, XIV. *Bulletin of the National Science Museum, Tokyo. Series B, Botany* 12 (4): 127–138.
- Hattori S (1986d) Porellaceae from New Caledonia. *Journal of Japanese Botany* 61 (6): 185–192.
- Hattori S (1986e) A synopsis of New Caledonian Frullaniaceae. *Journal of the Hattori Botanical Laboratory* 60: 203–237.
- Hattori S (1987a) New or little-known species of *Frullania* (Frullaniaceae) from Queensland and New South Wales, Australia. *Memoirs of the New York Botanical Garden* 45: 544–555.
- Hattori S (1987b) The *Frullania* flora of Lord Howe Island. *Bryologist* 90 (4): 365–370. doi: 10.2307/3243098
- Hattori S (1988a) *Frullania* flora of Mt. Albert Edward, Papua New Guinea. *Journal of the Hattori Botanical Laboratory* 65: 411–453.
- Hattori S (1988b) *Frullania* collections made by Dr. Barbara M. Thiers in Queensland and New South Wales, Australia. *Beihefte zur Nova Hedwigia* 90: 147–158.
- Hattori S, Gao C (1985) Two new *Frullania* taxa from China. *Journal of Japanese Botany* 60 (1): 1–4.
- Hattori S, Griffin III DG (1978) A new species of *Frullania* from the Andes of Venezuela. *Miscellanea Bryologica et Lichenologica* 8 (3): 47–48.

- Hattori S, Inoue H (1954) On a new liverwort family Treubiaceae. *Journal of the Hattori Botanical Laboratory* 11: 99–102.
- Hattori S, Kamimura M (1971) A new genus of Frullaniaceae (Hepaticae) from Borneo. *Journal of the Hattori Botanical Laboratory* 34: 429–436.
- Hattori S, Kamimura M (1973) Some new or little-known Asiatic species of *Frullania* (Hepaticae), I. *Journal of the Hattori Botanical Laboratory* 37: 519–533.
- Hattori S, Kodama T (1953) A new *Cololejeunea* from Kyoto. *Journal of the Hattori Botanical Laboratory* 10: 57–58.
- Hattori S, Lin P-J (1985a) A preliminary study of Chinese *Frullania* flora. *Journal of the Hattori Botanical Laboratory* 59: 123–169.
- Hattori S, Lin PJ (1985b) Two new species of Chinese *Frullania* (Hepaticae). *Journal of Japanese Botany* 60 (4): 106–110.
- Hattori S, Lin PJ (1986) A new species of *Frullania* from Hainan Island, China. *Journal of Japanese Botany* 61 (10): 307–309.
- Hattori S, Mizutani M (1958) A revision of the Japanese species of the family Lepidoziaceae. *Journal of the Hattori Botanical Laboratory* 19: 76–118.
- Hattori S, Mizutani M (1967) *Metacalypogeia schusterana* and *Metacalypogeia quelpartensis*. *Miscellanea Bryologica et Lichenologica* 4 (8): 121–124.
- Hattori S, Mizutani M (1968) Asiatic species of *Pseudolepicolea* (Hepaticae). *Journal of the Hattori Botanical Laboratory* 31: 251–259.
- Hattori S, Mizutani M (1969) Studies in the flora of Thailand. 59. Hepaticae. *Dansk Botanisk Arkiv* 27 (1): 91–98.
- Hattori S, Piippo S (1986) Bryophyte flora of the Huon Peninsula, Papua New Guinea. XV. *Frullania* (Frullaniaceae, Hepaticae). *Acta Botanica Fennica* 133: 25–58.
- Hattori S, Streimann H (1985) A collection of *Frullania* taxa from Papua New Guinea. *Journal of the Hattori Botanical Laboratory* 59: 101–121.
- Hattori S, Thaithong O (1977) A new species of *Frullania* (Hepaticae) from Java. *Journal of Japanese Botany* 52 (10): 289–292.
- Hattori S, Thaithong O (1978a) Dr. Parihar's collection of Indian *Frullania* (Hepaticae). *Journal of Japanese Botany* 53 (5): 129–133.
- Hattori S, Thaithong O (1978b) Indian *Frullania* collection made by Prof. and Mrs. A. J. Sharp and Dr. Z. Iwatsuki. *Journal of the Hattori Botanical Laboratory* 44: 177–193.
- Hattori S, Thaithong O (1978c) A *Frullania* collection made by Dr. T. Tuyama in Laos. *Journal of Japanese Botany* 53 (6): 172–177.
- Hattori S, Zhang M-X (1985) Porellaceae of Shensi Province, China. *Journal of Japanese Botany* 60 (11): 321–326.
- Hattori S, Hong W, Inoue H (1962) On a small collection of hepaticae made on Quelpart Island (Korea). *Journal of the Hattori Botanical Laboratory* 25: 126–134.
- Hattori S, Sharp AJ, Mizutani M, Iwatsuki Z (1966) The systematic position and distribution of *Treubia nana*. *Bryologist* 69 (4): 488–492. doi: 10.2307/3240581
- Hattori S, Thaithong O, Kitagawa N (1977) The genus *Frullania* in Thailand. *Journal of the Hattori Botanical Laboratory* 43: 439–457.

- Haynes CC (1907) Two new species of *Aytonia* from Jamaica. Bulletin of the Torrey Botanical Club 34 (2): 57–60. doi: 10.2307/2478915
- Haynes CC (1909) An enumeration of the Washington and Oregon hepaticae collected by Mr. A. S. Foster. Bryologist 12 (4): 65–71. doi: 10.2307/3238886
- Haynes CC (1910) *Sphaerocarpos hians* sp. nov., with a revision of the genus and illustration of the species. Bulletin of the Torrey Botanical Club 37 (5): 215–230. doi: 10.2307/2479405
- He X (1996a) Type studies on *Pycnolejeunea* (Lejeuneaceae, Hepaticae). II. Annales Botanici Fennici 33 (1): 51–58.
- He X (1996b) Type studies on *Pycnolejeunea* (Lejeuneaceae, Hepaticae), III. Two Asiatic species described by Hoffmann. Annales Botanici Fennici 33 (1): 59–64.
- He X (1997) Type studies on *Pycnolejeunea* (Lejeuneaceae, Hepaticae). V. On the identity of *Pycnolejeunea spinistipula* Mizut. and *Lepidolejeunea queenslandica* Thiers. Annales Botanici Fennici 34 (2): 127–132.
- He X (1999) A taxonomic monograph of the genus *Pycnolejeunea* (Lejeuneaceae, Hepaticae). Acta Botanica Fennica 163: 1–77.
- He X, Glenn D (2010) *Perssoniella* and the genera of Schistochilaceae: a new classification based on molecular phylogenies. Australian Systematic Botany 23 (4): 229–238. doi: 10.1071/SB10007
- He X, Grolle R (2001) *Xylolejeunea*, a new genus of the Lejeuneaceae (Hepaticae) from the Neotropics, Madagascar and the Seychelles. Annales Botanici Fennici 38 (1): 25–44.
- He X, Sun Y (2013) Multigene evidence reveals the systematic position of *Pleurocladopsis simulans* (C. Massal.) R. M. Schust. within *Schistochila* Dumort., Schistochilaceae. Polish Botanical Journal 58 (2): 467–474. doi: 10.2478/pbj-2013-0060
- He Q, Zhu R-L, Chantanaorrapint S, Kornochalert S, Printarakul N (2012a) *Drepanolejeunea laciniata* (Lejeuneaceae), a new species from northern Thailand. Cryptogamie, Bryologie 33 (3): 291–298. doi: 10.7872/cryb.v33.iss3.2012.291
- He Q, Wei Y-M, Zhu R-L (2012b) *Vitalianthus guangxianus* Zhu RL, He Q, Wei YM (Lejeuneaceae), sp. nov. from Guangxi, China. Journal of Bryology 34 (1): 32–36. doi: 10.1179/1743282011Y.0000000038
- He Q, Liu L-J, Liu C-X, Liu G-L, Ma Y, Gao D-L, Wei Y-M, Shi R-P, Shu L, Zhu R-L (2013) Synonymy, taxonomic notes, and range extensions for several noteworthy Asian liverworts. Journal of Bryology 35 (2): 123–128. doi: 10.1179/174328213X13663649362415
- He Q, Wei Y-M, Pócs T, Zhu R-L (2014a) The reappraisal of *Capillolejeunea* S.W. Arnell (Marchantiophyta, Lejeuneaceae). Phytotaxa 175 (3): 166–170. doi: 10.11646/phytotaxa.175.3.7
- He X, Glenn D, Söderström L, Hagborg A, von Konrat M (2014b) Notes on Early Land Plants Today. 58. Historical circumscription of Schistochilaceae (Marchantiophyta) and a new combination in *Schistochila*. Phytotaxa 173 (1): 91–94. doi: 10.11646/phytotaxa.173.1.10
- Hedwig J (1784) Theoria generationis et fructificationis. Typis Academiae imper. scientiarum, Petropoli [St. Petersburg], 164 pp.
- Heeg M (1893) Hepaticarum species novae. Revue Bryologique 20 (5): 81–83.
- Heinrichs J (2002) A taxonomic revision of *Plagiochila* sect. *Hylacoetes*, sect. *Adiantoidea* and sect. *Fuscoluteae* in the Neotropics with a preliminary subdivision of neotropical Plagiochilaceae into nine lineages. Bryophytorum Bibliotheca 58: 1–184.

- Heinrichs J, Gradstein SR, Grolle R (1998) A revision of the neotropical species of *Plagiochila* (Dumort.) Dumort. (Hepaticae) described by Olof Swartz. *Journal of the Hattori Botanical Laboratory* 85: 1–32.
- Heinrichs J, Groth H, Gradstein SR, Rycroft DS, Cole WJ, Anton H (2001) *Plagiochila rutilans* (Hepaticae): A poorly known species from tropical America. *Bryologist* 104 (3): 350–361. doi: 10.1639/0007-2745(2001)104[0350:PRHAPK]2.0.CO;2
- Heinrichs J, Groth H, Holz H, Rycroft DS, Renker C, Pröschold T (2002) The systematic position of *Plagiochila moritziana*, *P. trichostoma*, and *P. deflexa* based on ITS sequence variation of nuclear ribosomal DNA, morphology, and lipophilic secondary metabolites. *Bryologist* 105 (2): 189–203. doi: 10.1639/0007-2745(2002)105[0189:TSPOPM]2.0.CO;2
- Heinrichs J, Gradstein SR, Groth H, Lindner M (2003) *Plagiochila cucullifolia* var. *anomala* var. nov. from Ecuador, with notes on discordant molecular and morphological variation in *Plagiochila*. *Plant Systematics and Evolution* 242 (1/4): 205–216. doi: 10.1007/s00606-003-0063-5
- Heinrichs J, Lindner M, Pócs T (2004) nrDNA internal transcribed spacer data reveal that *Rhodoplagiochila* R. M. Schust. (Marchantiophyta: Jungermanniales) is a member of *Plagiochila* sect. *Arrectae* Carl. *Organisms, Diversity and Evolution* 4 (1/2): 109–118. doi: 10.1016/j.ode.2004.01.001
- Heinrichs J, Lindner M, Gradstein SR, Groth H, Buchbender V, Solga A, Fischer E (2005) Origin and subdivision of *Plagiochila* (Jungermanniidae: Plagiochilaceae) in tropical Africa based on evidence from nuclear and chloroplast DNA sequences and morphology. *Taxon* 54 (2): 317–333. doi: 10.2307/25065360
- Heinrichs J, Rycroft DS, Feldberg K, Lindner M, Hartmann FA (2006) The systematic position of *Plagiochila surinamensis* inferred from nrDNA ITS sequences, morphology and phytochemistry. *Journal of the Hattori Botanical Laboratory* 100: 135–142.
- Heinrichs J, Hentschel J, Wilson R, Feldberg K, Schneider H (2007) Evolution of leafy liverworts (Jungermanniidae, Marchantiophyta): estimating divergence times from chloroplast DNA sequences using penalized likelihood with integrated fossil evidence. *Taxon* 56 (1): 31–44. doi: 10.2307/2506733
- Heinrichs J, Hentschel J, Bombosch A, Fiebig A, Reise J, Edelmann M, Kreier H-P, Schäfer-Verwimp A, Caspari S, Schmidt AR, Zhu R-L, von Konrat M, Shaw B, Shaw AJ (2010) One species or at least eight? Delimitation and distribution of *Frullania* Dumort. s. l. (Jungermanniopsida, Porellales) inferred from nuclear and chloroplast DNA markers. *Molecular Phylogenetics and Evolution* 56 (3): 1105–1114. doi: 10.1016/j.ympev.2010.05.004
- Heinrichs J, Bombosch A, Feldberg K, Kreier H-P, Hentschel J, Eckstein J, Long D, Zhu R-L, Schäfer-Verwimp A, Schmidt AR, Shaw B, Shaw AJ, Váňa J (2012a) A phylogeny of the northern temperate leafy liverwort genus *Scapania* (Scapaniaceae, Jungermanniales). *Molecular Phylogenetics and Evolution* 62 (3): 973–985. doi: 10.1016/j.ympev.2011.11.029
- Heinrichs J, Dong S, Feldberg K, Schäfer-Verwimp A, Schmidt AR (2012b) *Sphaerolejeunea* (Lejeuneaceae, Porellales) is a synonym of *Lejeunea*. *Phytotaxa* 69: 7–15.
- Heinrichs J, Dong S, Yu Y, Schäfer-Verwimp A, Pócs T, Feldberg K, Hentschel J, Schmidt AR, Schneider H (2012c) A 150 year-old mystery solved: Transfer of the rheophytic endemic liverwort *Myriocolea irrorata* to *Colura*. *Phytotaxa* 66: 55–64.

- Heinrichs J, Dong S, Schäfer-Verwimp A, Pócs T, Feldberg K, Czumaj A, Schmidt AR, Reitner J, Renner MAM, Hentschel J, Stech M, Schneider H (2013) Molecular phylogeny of the leafy liverwort *Lejeunea* (Porellales): evidence for a Neotropical origin, uneven distribution of sexual systems and insufficient taxonomy. *PLOS one* 8 (12): 1–14. doi: 10.1371/journal.pone.0082547
- Heinrichs J, Schäfer-Verwimp A, Czumaj A, Dong S, Scheben A, Feldberg K, Schneider H (2014) Towards a monophyletic classification of Lejeuneaceae I: subtribe Leptolejeuneinae subtr. nov. *Phytotaxa* 156 (3): 165–174. doi: 10.11646/phytotaxa.165.3.7
- Heinrichs J, Feldberg K, Bechteler J, Scheben A, Czumaj A, Pócs T, Schneider H, Schäfer-Verwimp A (2015) Integrative taxonomy of *Lepidolejeunea* (Jungermanniopsida: Porellales): Ocelli allow the recognition of two neglected species. *Taxon* 64 (2): 216–228. doi: 10.12705/642.5
- Hell KG (1969) Briófitas talosas dos arredores da cidade de São Paulo (Brasil). *Boletim de Faculdade de Filosofia, Ciências e Letras, Universidade de São Paulo, botânica* 25: 1–190.
- Hendry TA, Wang B, Yang Y, Davis EC, Braggins JE, Schuster RM, Qui Y-L (2007) Evaluating phylogenetic positions of four liverworts from New Zealand, *Neogrollea notabilis*, *Jackiella curvata*, *Goebelobryum unguiculatum* and *Herzogianthus vaginatus*, using three chloroplast genes. *Bryologist* 110 (4): 738–751. doi: 10.1639/0007-2745(2007)110[738:EPPOFL]2.0.CO;2
- Henriques J (1886) Hepáticas colhidas em Portugal. *Boletim da Sociedade Broteriana* 4: 234–249.
- Hentschel J, Wilson R, Burghardt M, Zündorf H-J, Schneider H, Heinrichs J (2006) Reinstatement of Lophocoleaceae (Jungermanniopsida) based on chloroplast gene *rbcl* data: exploring the importance of female involucre for the systematics of Jungermanniales. *Plant Systematics and Evolution* 258 (2): 211–226. doi: 10.1007/s00606-006-0408-y
- Hentschel J, Paton JA, Schneider H, Heinrichs J (2007a) Acceptance of *Liocblaena* Nees and *Solenostoma* Mitt., the systematic position of *Eremonotus* Pearson and notes on *Jungermannia* L. s. l. (Jungermanniidae) based on chloroplast DNA sequence data. *Plant Systematics and Evolution* 268 (1/4): 147–157. doi: 10.1007/s00606-007-0549-7
- Hentschel J, Zhu R-L, Long DG, Davison PG, Schneider H, Gradstein SR, Heinrichs J (2007b) A phylogeny of *Porella* (Porellaceae, Jungermanniopsida) based on nuclear and chloroplast DNA sequences. *Molecular Phylogenetics and Evolution* 45 (2): 693–705. doi: 10.1016/j.ympev.2007.05.005
- Hentschel J, Feldberg K, Zündorf H-J, Hellwig FH, Schneider H, Heinrichs J (2007c) The systematic position of *Pachyglossa* and *Clasmatocolea* (Jungermanniopsida: Lophocoleaceae) inferred from nrDNA ITS sequences and morphology. *Taxon* 56 (4): 1136–1142. doi: 10.2307/25065908
- Hentschel J, von Konrat MJ, Pócs T, Schäfer-Verwimp A, Shaw AJ, Schneider H, Heinrichs J (2009) Molecular insights into the phylogeny and subgeneric classification of *Frullania* Raddi (Frullaniaceae, Porellales). *Molecular Phylogenetics and Evolution* 52 (1): 142–156. doi: 10.1016/j.ympev.2008.12.021
- Hentschel J, von Konrat M, Söderström L, Hagborg A, Larraín J, Sukkharak P, Uribe J, Zhang L (2015) Notes on Early Land Plants Today. 72. Infrageneric classification and new combinations, new names, new synonyms in *Frullania*. *Phytotaxa* 220 (2): 127–142 doi: 10.11646/phytotaxa.220.2.3.

- He-Nygrén X, Piippo S (2003) Phylogenetic relationships of the generic complex *Chiloscyphus-Lophocolea-Heteroscyphus* (Geocalyceaceae, Hepaticae): Insights from three chloroplast genes and morphology. *Annales Botanici Fennici* 40 (5): 317–329.
- He-Nygrén X, Juslén A, Ahonen I, Glenný D, Piippo S (2006) Illuminating the evolutionary history of liverworts (Marchantiophyta) - towards a natural classification. *Cladistics* 22 (1): 1–31. doi: 10.1111/j.1096-0031.2006.00089.x
- Herzog T (1920) Die Bryophyten meiner zweiten Reise durch Bolivia (Nachtrag). *Bibliotheca Botanica* 88: 1–31.
- Herzog T (1921) Die Lebermoose der 2. Freiburger Molukkenexpedition und einige neue Arten der engeren Indomalaya. Beihefte zum Botanischen Centralblatt 38 (2): 318–332.
- Herzog T (1925a) Neue Bryophyten aus Brasilien. *Repertorium Specierum Novarum Regni Vegetabilis* 21 (1/7): 22–33. doi: 10.1002/fedr.19250210104
- Herzog T (1925b) Contribuições ao conhecimento da flora briologica do Brasil. *Archivos de Botanica do Estado de São Paulo* 1 (2): 27–105.
- Herzog T (1926) Bryophyten der weiteren Indomalaya. *Hedwigia* 66 (6): 337–358.
- Herzog T (1927) Zwei Bryophytensammlungen aus Südamerika. *Hedwigia* 67 (6): 249–268.
- Herzog T (1928) *Scapania portoricensis* Hpe et G. *Annales Bryologici* 1: 91–112.
- Herzog T (1930a) *Mnioloma* Herzog nov. gen. hepaticarum. *Annales Bryologici* 3: 115–120.
- Herzog T (1930b) Studien über *Drepanolejeunea* I. *Annales Bryologici* 3: 126–149.
- Herzog T (1931a) Hepaticae. In: Irmscher E (Ed.) Beiträge zur flora von Borneo. Mitteilungen aus dem Institut für allgemeine Botanik in Hamburg 7 (3): 179–181.
- Herzog T (1931b) Hepaticae philippinenses a cl. C. J. Baker lectae. *Annales Bryologici* 4: 79–94.
- Herzog T (1932a) Neue Hepaticae aus der weiteren Indomalaya. *Annales Bryologici* 5: 83–98.
- Herzog T (1932b) Neue und bemerkenswerte Bryophyten, von H. Burgeff 1927/28 auf Java und den Philippinen gesammelt. *Annales Bryologici* 5: 69–82.
- Herzog T (1932c) Beiträge zur Kenntnis der Gattung *Plagiochila* I. Neotropische Arten. *Hedwigia* 72 (6): 195–242.
- Herzog T (1934a) Die Bryophyten der Andenreisen von C. Troll (Bolivia, Colombia, Panamá). *Hedwigia* 74 (2): 79–114.
- Herzog T (1934b) Studien über *Drepanolejeunea* II. *Annales Bryologici* 7: 57–94.
- Herzog T (1936a) Studien über *Drepanolejeunea* III. *Annales Bryologici* 9: 115–130.
- Herzog T (1936b) Descriptions of new species of New Zealand hepatics. *Transactions and Proceedings of the Royal Society of New Zealand* 65 (3): 350–356.
- Herzog T (1937) Neue Bryophyten vom Ruwenzori und aus dem Patagonischen Inlandeisgebiet. *Repertorium Specierum Novarum Regni Vegetabilis* 41 (14/25): 285–292. doi: 10.1002/fedr.19370411410
- Herzog T (1938a) Hepaticae standleyanae costaricensis et hondurenses. *Revue Bryologique et Lichénologique* 11 (1): 5–30.
- Herzog T (1938b) *Sphaerolejeunea*, eine neue Gattung der Lejeuneaceae Schizostipae. *Annales Bryologici* 11: 86–89.
- Herzog T (1938c) Descriptions of new species of New Zealand hepatics, II. *Transactions and Proceedings of the Royal Society of New Zealand* 68 (1): 40–46.

- Herzog T (1938d) Beiträge zur Kenntnis der Gattung *Plagiochila* II. Palaeotropische Arten. *Hedwigia* 78 (3/4): 222–244.
- Herzog T (1939a) Studien über *Drepanolejeunea* IV. *Annales Bryologici* 12: 98–122.
- Herzog T (1939b) Zwei Bryophytensammlungen aus dem Sikkim-Himalaya. *Annales Bryologici* 12: 71–97.
- Herzog T (1939c) Zur Bryophytenflora Südchiles. I. Verzeichnis der gesammelten Bryophyten. Beihefte zum Botanischen Centralblatt 60B (1/2): 1–35.
- Herzog T (1940) Die Moose der Expedition Ljunger nach Patagonien, 1932–34. *Arkiv för Botanik* 29A (21): 1–17.
- Herzog T (1941a) *Allisonia* Herz., eine neue Gattung of the Haplolaenaceae. *Hedwigia* 80 (1/2): 77–83.
- Herzog T (1941b) *Byssolejeunea*, eine neue Gattung der Lejeuneaceae. *Hedwigia* 80 (1/2): 84–86.
- Herzog T (1942a) Die foliosen Lebermoose der Juan Fernández-Insel und der Osterinsel. In: Skottsberg C (Ed.) *The Natural History of Juan Fernández and Easter Island*. Botany 2. Almquist & Wiksell, Stockholm, 697–752. doi: 10.5962/bhl.title.25662
- Herzog T (1942b) Lebermoose aus Sumatra. *Annalen des Naturhistorischen Museums in Wien* 53 (1): 358–373.
- Herzog T (1942c) Revision der Lebermoosgattung *Leptolejeunea* Spr. in der Indomalaya. *Flora* 135: 377–434.
- Herzog T (1942d) Beiträge zur Kenntnis neotropischer Bryophyten. Beihefte zum Botanischen Centralblatt 61B (3): 559–590.
- Herzog T (1942e) Drei neue *Ceratolejeunea*-Arten aus der Neotropis. *Revue Bryologique et Lichénologique* 13: 20–24.
- Herzog T (1943a) Eine kleine Lebermoos-Sammlung aus Chile. *Acta Horti Gotoburgensis* 15: 157–162.
- Herzog T (1943b) *Micropterygium reimersianum* Herz. Eine neue Art der Gattung aus Südbrasilien. *Hedwigia* 81 (5/6): 225–228.
- Herzog T (1943c) *Rhaphidolejeunea* Herz., eine neue Lejeuneaceengattung der Indomalaya. *Mittheilungen des Thüringischen Botanischen Vereins* 50: 100–105.
- Herzog T (1947) Hepaticae von der Comoreninsel Johanna. *Botaniska Notiser* 100 (4): 317–334.
- Herzog T (1948) Studien über kritische und neue Lejeuneaceae der Indomalaya. *Svensk Botanisk Tidskrift* 42 (3): 230–241.
- Herzog T (1949a) Descriptions of new species of New Zealand hepatics III. *Transactions and Proceedings of the Royal Society of New Zealand* 77 (2): 253–256.
- Herzog T (1949b) Four new hepatics from Australia. *Transactions of the British Bryological Society* 1 (3): 181–189. doi: 10.1179/006813849804879096
- Herzog T (1950a) Hepaticae borneenses (Oxford University expeditions to Sarawak, 1932). *Transactions of the British Bryological Society* 1 (4): 275–326. doi: 10.1179/006813850804878680
- Herzog T (1950b) *Miscellanea bryologica*. II. Paletropica. *Memoranda Societatis pro Fauna et Flora Fennica* 26: 37–66.

- Herzog T (1950c) *Miscellanea bryologica*. I. Neotropica. *Memoranda Societatis pro Fauna et Flora Fennica* 25: 43–72.
- Herzog T (1951a) *Hepaticae standleyanae costaricensis et hondurenses*. Pars II. *Revue Bryologique et Lichénologique* 20 (1/2): 126–175.
- Herzog T (1951b) Revision der Lebermoos Gattung *Lembidium* Mitt. *Arkiv för Botanik* (n. ser.) 1 (13): 471–502.
- Herzog T (1952a) Nachtrag zu ‘*Hepaticae borneenses* (Oxford University Expedition to Sarawak, 1932)’. *Transactions of the British Bryological Society* 2 (1): 71–73. doi: 10.1179/006813852804878435
- Herzog T (1952b) *Aphanotropis* Herz., eine neue Gattung der Lejeuneaceae aus Borneo. *Transactions of the British Bryological Society* 2 (1): 62–65. doi: 10.1179/006813852804878255
- Herzog T (1952c) *Miscellanea bryologica*. III. *Memoranda Societatis pro Fauna et Flora Fennica* 27: 92–110.
- Herzog T (1952d) Drei neue Lebermoose aus West Patagonien. *Revue Bryologique et Lichénologique* 21 (3/4): 256–261.
- Herzog T (1952e) *Hepaticae ecuadorienses* a Cl. D:re Gunnar Harling annis 1946–1947 lectae. *Svensk Botanisk Tidskrift* 46 (1): 62–108.
- Herzog T (1952f) Eine neue Lebermoosgattung aus Westpatagonien, *Chondrophyllum* Herz. *Revue Bryologique et Lichénologique* 21 (1/2): 46–49.
- Herzog T (1952g) *Perssoniella* Herz. nov. gen. hepaticarum. *Arkiv för Botanik* (n.ser.) 2 (4): 265–269.
- Herzog T (1952h) Beiträge zur Kenntnis der argentinischen Bryophytenflora. *Feddes Repertorium Specierum Novarum Regni Vegetabilis* 55 (1): 1–27. doi: 10.1002/fedr.19520550102
- Herzog T (1953a) Lebermoose aus Neukaledonien gesammelt von Dr. O. H. Selling. *Arkiv för Botanik* (n.ser.) 3 (3): 43–61.
- Herzog T (1953b) Eine neue Lebermoosgattung, *Pseudomarsupidium* Herz. n. gen. aus Westpatagonien. *Svensk Botanisk Tidskrift* 47 (1): 34–42.
- Herzog T (1954) Zur Bryophytenflora Chiles. *Revue Bryologique et Lichénologique* 23 (1/2): 27–99.
- Herzog T (1955) *Hepaticae* aus Columbia und Peru. *Feddes Repertorium Specierum Novarum Regni Vegetabilis* 57 (1/2): 156–203. doi: 10.1002/fedr.4880570105
- Herzog T (1957a) Lebermoose aus Ecuador gesammelt von Dr. E. Asplund. *Svensk Botanisk Tidskrift* 51 (1): 187–196.
- Herzog T (1957b) Eine Bryophytenammlung aus dem argentinischen Nationalpark Nahuel-Huapi. *Darwiniana* 11 (2): 207–222.
- Herzog T (1960) Weitere Beiträge zur Bryophytenflora von Chile. *Revue Bryologique et Lichénologique* 29 (3/4): 183–206.
- Herzog T, Grolle R (1958) Was ist *Pachyglossa*? *Revue Bryologique et Lichénologique* 27 (3/4): 147–165.
- Herzog T, Hosseus CC (1938) Contribución al conocimiento de la flora briófitas del sur de Chile. *Archivos de la Escuela de Farmacia de la Facultad de Ciencias Médicas de Córdoba* 7: 1–95.

- Herzog T, Noguchi A (1955) Beitrag zur Kenntnis der Bryophytenflora von Formosa und den benachbarten Inseln Botel Tobago und Kwashyoto. *Journal of the Hattori Botanical Laboratory* 14: 29–70.
- Herzog T, Thériot I, Buch H, Schiffner V, Verdoorn F (1933) Bryophyta nova (6-16). *Annales Bryologici* 6: 124–135.
- Heslewood MM, Brown EA (2007) A molecular phylogeny of the liverwort family Lepidoziaceae Lmpr. in Australasia. *Plant Systematics and Evolution* 265 (3/4): 193–219. doi: 10.1007/s00606-006-0512-z
- Hewson HJ (1970a) The family Aneuraceae in Australia and New Guinea: II. The genus *Riccardia*. *Proceedings of the Linnean Society of New South Wales (ser. 2)* 95 (1): 60–121.
- Hewson HJ (1970b) The family Aneuraceae in Australia and New Guinea: I. The genus *Aneura*. *Proceedings of the Linnean Society of New South Wales (ser. 2)* 94 (2): 173–193.
- Hewson HJ (1982) Vandiemeniaceae: a new family in the Metzgeriales. *Journal of the Hattori Botanical Laboratory* 52: 163–165.
- Hicks ML (1991) *Scapania* in Queensland, Australia. *Journal of the Hattori Botanical Laboratory* 69: 129–132.
- Hiepko P, Schultze-Motel W (1981) Floristische und ethnobotanische Untersuchungen im Eipomek-Tal, Irian Jaya (West-Neuguinea), Indonesien. *Schriftenreihe Mensch, Kultur und Umwelt im zentralen Bergland West-Neuguinea* 7: 1–75.
- Higuchi M (1998) A new species of *Apotreubia* (Treubiaceae, Hepaticae) from China. *Cryptogamie: Bryologie, Lichénologie* 19 (4): 321–328.
- Hill J (1773) A general natural history. Volume 2. A history of plants. Edition 2. London, 644 pp.
- Hodgetts NG (2008) A morphological revision of the genus *Herbertus* S.Gray (Herbertaceae, Marchantiophyta) in Africa, including the East African islands. *Journal of Bryology* 30 (4): 239–263. doi: 10.1179/174328208X300714
- Hodgson EA (1941) Review of the New Zealand species of *Schistochila*, with notes on Colenso's species. *Transactions and Proceedings of the Royal Society of New Zealand* 71 (3): 181–194.
- Hodgson EA (1943) A review of the New Zealand species of the genus *Chiloscyphus*. *Transactions and Proceedings of the Royal Society of New Zealand* 73 (1): 27–52.
- Hodgson EA (1944) A review of New Zealand species of *Plagiobhila* (New Zealand hepaticae III). *Transactions and Proceedings of the Royal Society of New Zealand* 73 (4): 270–296.
- Hodgson EA (1949) New Zealand hepaticae (liverworts). VI. A review of the New Zealand species of the genus *Frullania*. *Transactions and Proceedings of the Royal Society of New Zealand* 77 (3): 361–389.
- Hodgson EA (1952) New Zealand hepaticae (liverworts) – VII. A review of the New Zealand species of the genus *Lophocolea* with notes on *Chiloscyphus*. *Transactions of the Royal Society of New Zealand* 80 (3/4): 329–358.
- Hodgson EA (1954) New Zealand hepaticae (liverworts) – VIII. A review of the New Zealand species of the genera *Bazzania* and *Acromastigum*. *Transactions of the Royal Society of New Zealand* 82 (1): 7–24.

- Hodgson EA (1956) New Zealand hepaticae (liverworts) – IX. A review of the New Zealand species of the genus *Lepidozia*. Transactions of the Royal Society of New Zealand 83 (4): 589–620.
- Hodgson EA (1958) New Zealand hepaticae (liverworts) – X. Marsupial genera of New Zealand. Transactions of the Royal Society of New Zealand 85 (4): 565–584.
- Hodgson EA (1959) New Zealand hepaticae (liverworts) – XI. A review of New Zealand species of the genus *Lepidolaena*. Transactions of the Royal Society of New Zealand 87 (3/4): 199–210.
- Hodgson EA (1962a) Hepatics from the subantarctic islands of New Zealand including “Cape Expedition” collections from the Auckland and Campbell Islands. Records of the Dominion Museum 4 (11): 101–132.
- Hodgson EA (1962b) New Zealand hepaticae (liverworts). XIV. *Drucella*, a new genus of the Lepidoziaceae. Transactions of the Royal Society of New Zealand. Botany 2 (3): 45–47.
- Hodgson EA (1964) New Zealand hepaticae (liverworts) – XV: A new monotypic family of the thalloid Hepaticae Phyllothalliaceae Hodgson fam. nov. Transactions of the Royal Society of New Zealand. Botany 2 (19): 247–250.
- Hodgson EA (1965) New Zealand hepaticae (liverworts) – XVI. A miscellany of new genera, new species and notes, Part I. Transactions of the Royal Society of New Zealand. Botany 3 (4): 67–97.
- Hodgson EA (1967) New Zealand hepaticae (liverworts) – XVII A miscellany of taxonomic notes. Part. 2. Transactions of the Royal Society of New Zealand. Botany 3 (11): 175–198.
- Hodgson EA (1970) New Zealand hepaticae (liverworts) – XIX. *Adelanthus* Mitten, a new New Zealand genus. Transactions of the Royal Society of New Zealand. Biological Sciences 11 (18): 239–242.
- Hodgson EA (1972) New Zealand hepaticae (liverworts) – XX: A miscellany taxonomic notes, Part 3. Journal of the Royal Society of New Zealand 2 (1): 109–118. doi: 10.1080/03036758.1972.10423309
- Hodgson EA, Allison KW (1962) New Zealand hepaticae (liverworts). XIII. A review of the New Zealand species of the genus *Temnoma* and *Anoplostoma*, a new genus. Transactions of the Royal Society of New Zealand. Botany 1 (12): 139–154.
- Hodgson EA, Sainsbury GOK (1948) Bryophytes collected by G. E. Du Rietz on the Antipodes Islands. Svensk Botanisk Tidskrift 42 (3): 273–280.
- Hoffman G (1935) Monographische Studien über die indomalayischen Arten von *Pycnolejeunea*. Annales Bryologici 8: 80–129.
- Hoffmann GF (1795) Deutschlands Flora. Cryptogamie. Johan Jakob Palm, Erlangen, 200 pp.
- Hong WS (1980) The genus *Scapania* in western North America. II. Taxonomic treatment. Bryologist 83 (1): 40–59. doi: 10.2307/3242392
- Hong WS (1988) The family Lepidoziaceae in North America west of the hundredth meridian. Bryologist 91 (4): 326–333. doi: 10.2307/3242771
- Hooker WJ (1812) British *Jungermanniae*, part 1–8. Longmans, London, tab. 1–32.
- Hooker WJ (1813) British *Jungermanniae*, part. 9–15. Longmans, London, tab. 33–60.
- Hooker WJ (1814) British *Jungermanniae*, part. 16–17. Longmans, London, tab. 61–68.
- Hooker WJ (1815) British *Jungermanniae*, part. 18–19. Longmans, London, tab. 69–76.
- Hooker WJ (1816a) British *Jungermanniae*, part. 20–22. Longmans, London, tab. 77–84.

- Hooker WJ (1816b) *Plantae cryptogamicae*. IDC, Leiden, 4 pp.
- Hooker WJ (1818) *Musci exotici*, vol. I. Longmans, London, 96 tab. doi: 10.5962/bhl.title.10721
- Hooker WJ (1820) *Musci exotici*, vol. II. Longmans, London, 176 tab. doi: 10.5962/bhl.title.10721
- Hooker WJ (1830) *Botanical miscellany*, vol. I. John Murray, London, 1–236.
- Hooker WJ (1831) *Botanical miscellany*, vol. II. John Murray, London, 129–421.
- Hooker JD (1867) *Handbook of the New Zealand flora*, part II. Reeve, London, 393–798.
- Hooker WJ, Arnott GAW (1832) *The botany of Captain Beechey's voyage*, part. 3. Henry G Bohn, London, 97–144. doi: 10.5962/bhl.title.246
- Hooker JD, Taylor T (1844a) *Hepaticae Antarcticae*. I. Species of Lord Auckland's and Campbell's Islands. *London Journal of Botany* 3: 366–400.
- Hooker JD, Taylor T (1844b) *Hepaticae Antarcticae*. II. Species of the Falkland Islands, Cape Horn, and of Kerguelen's Land. *London Journal of Botany* 3: 454–481.
- Hooker JD, Taylor T (1844c) *Hepaticae Novae-Zelandiae et Tasmaniae*. IV. Species Tasmaniae. *London Journal of Botany* 3: 577–582.
- Hooker JD, Taylor T (1844d) *Hepaticae Novae-Zelandiae et Tasmaniae*. III. Species of New Zealand. *London Journal of Botany* 3: 556–577.
- Hooker JD, Taylor T (1845) *Hepaticae Antarcticae, supplementum*. *London Journal of Botany* 4: 79–97.
- Hooker WJ, Wilson W (1844) Enumeration of the mosses and hepaticae. *London Journal of Botany* 3: 149–167.
- Horikawa Y (1929a) Studies on the hepaticae of Japan. II. *Science Reports of the Tôhoku Imperial University. Series 4, Biology* 4 (2): 395–429.
- Horikawa Y (1929b) Studies on the hepaticae of Japan. I. *Science Reports of the Tôhoku Imperial University. Series 4, Biology* 4 (1): 37–72.
- Horikawa Y (1929c) Studies on the hepaticae of Japan. III. *Science Reports of the Tôhoku Imperial University. Series 4, Biology* 5 (4): 623–650.
- Horikawa Y (1931a) Studies on the hepaticae of Japan. V. *Journal of Science of the Hiroshima University: Series B, Division 2 (Botany)* 1: 55–76.
- Horikawa Y (1931b) Studies on the hepaticae of Japan. IV. *Journal of Science of the Hiroshima University: Series B, Division 2 (Botany)* 1: 13–35.
- Horikawa Y (1932a) Studies on the hepaticae of Japan. VI. *Journal of Science of the Hiroshima University: Series B, Division 2 (Botany)* 1: 77–94.
- Horikawa Y (1932b) Die epiphyllen Lebermoose von Japan. *Botanical Magazine, Tokyo* 46 (544): 176–184. doi: 10.15281/jplantres1887.46.176
- Horikawa Y (1932c) Studies on the hepaticae of Japan. VII. *Journal of Science of the Hiroshima University: Series B, Division 2 (Botany)* 1: 121–134.
- Horikawa Y (1933) Studies on the hepaticae of Japan. VIII. *Journal of Science of the Hiroshima University: Series B, Division 2 (Botany)* 1: 197–205.
- Horikawa Y (1934) *Monographia hepaticarum australi-japonicarum*. *Journal of Science of the Hiroshima University: Series B, Division 2 (Botany)* 2: 101–325.
- Horikawa Y (1935) Contributions to the bryological flora of eastern Asia II. *Journal of Japanese Botany* 11: 499–508.

- Horikawa Y (1936) *Symbolae florae bryophytae Orientali-Asiae et Micronesiae* X. Botanical Magazine, Tokyo 50 (598): 556–561. doi: 10.15281/jplantres1887.50.556
- Horikawa Y (1939) Contributions to the bryological flora of Eastern Japan. VI. Journal of Japanese Botany 15: 359–368.
- Horikawa Y (1943) Notulae hepaticologicae. Acta Phytotaxonomica et Geobotanica 13: 212–214.
- Horikawa Y (1951a) Tropical bryophytes in the Japanese Archipelago. Journal of Science of the Hiroshima University: Series B, Division 2 (Botany) 6: 27–38.
- Horikawa Y (1951b) Distributions of important bryophytes in the Japanese Archipelago (1). Hikobia 1 (2): 100–108.
- Horikawa Y (1951c) *Symbolae florae bryophytae orientali-asiae et micronesiae*. XII. Hikobia 1 (2): 78–100.
- Horikawa Y, Ando H (1954) Taxonomic and ecological studies of *Jubula* in the Japanese archipelago. Journal of Science of the Hiroshima University: Series B, Division 2 (Botany) 6: 297–314.
- Hornemann JW (1810) Flora Danica vol. 8 heft 24 (tab. MCCCCLXXXI-MCCCCXL). E. A. H. Mölleri Aulae Regiae & Universitatis Typographi, Hauniae [Copenhagen], 1–8.
- Hornemann JW (1830) Flora Danica vol. 12 heft 34 (tab. MDCCCCLXXXI-MMXL). E. A. H. Mölleri Aulae Regiae & Universitatis Typographi, Hauniae [Copenhagen], 1–14.
- Howe MA (1894) Notes on Californian bryophytes.—1. Erythea 2 (6): 97–101.
- Howe MA (1897a) *Gyrothyra*, a new genus of hepaticae. Bulletin of the Torrey Botanical Club 24 (4): 201–205. doi: 10.2307/2478334
- Howe MA (1897b) The North American species of *Porella*. Bulletin of the Torrey Botanical Club 24 (11): 512–528. doi: 10.2307/2478073
- Howe MA (1898a) The Anthocerotaceae of North America. Bulletin of the Torrey Botanical Club 25 (1): 1–24. doi: 10.2307/2478007
- Howe MA (1898b) New American hepaticae. Bulletin of the Torrey Botanical Club 25 (4): 183–192. doi: 10.2307/2477701
- Howe MA (1899) The hepaticae and anthocerotae of California. Memoirs of the Torrey Botanical Club 7: 1–208.
- Howe MA (1901a) *Riccia beyrichiana* and *Riccia dictyospora*. Bulletin of the Torrey Botanical Club 28 (3): 161–165. doi: 10.2307/2477946
- Howe MA (1901b) An enumeration of the hepaticae collected by R. S. Williams, 1898–1899. Contribution to the botany of the Yukon Territory. Bulletin of the New York Botanical Garden 2 (6): 101–105.
- Howe MA (1902) Notes on North American hepaticae. Bulletin of the Torrey Botanical Club 29 (5): 281–289. doi: 10.2307/2478722
- Howe MA (1917) Notes on North American species of *Riccia*. Bryologist 20 (3): 33–36. doi: 10.2307/3237525
- Howe MA (1934) The hepaticae (chiefly *Riccia* and Anthocerotaceae) of the Galapagos Islands and the coast and islands of Central America and Mexico. Proceedings of the California Academy of Sciences (ser. 4) 21 (17): 199–209.

- Howe MA, Underwood LM (1903) The genus *Riella*, with descriptions of new species from North America and the Canary Islands. *Bulletin of the Torrey Botanical Club* 30 (4): 214–224. doi: 10.2307/2478779
- Hübener JWP (1832) Beschreibungen einiger neuen deutschen Jungermannien. *Flora* 15 (20): 305–308.
- Hübener JWP (1834) *Hepaticologia Germanica*. Schwann and Götz, Mannheim, 314 pp.
- Hudson W (1762) *Flora Anglica*, ed. 1. J. Nourse, London, 506 pp.
- Hudson W (1778) *Flora Anglica*, ed. 2, tom. 2. J. Nourse, London, 335–690.
- Hürlimann H (1960) Hepaticae aus dem Gebiete des südlichen Pazifik. I. *Bauhinia* 1 (3): 251–260.
- Hürlimann H (1968) Hepaticae aus dem Gebiete des südlichen Pazifik. II. *Bauhinia* 4 (1): 73–84.
- Hürlimann H (1976) Hepaticae aus dem Gebiete des südlichen Pazifik. IV. *Bauhinia* 5 (4): 191–213.
- Hürlimann H (1983) Hepaticae aus dem Gebiete des südlichen Pazifik. VII. *Bauhinia* 7 (4): 259–268.
- Hürlimann H (1985) Hepaticae aus dem Gebiete des südlichen Pazifik. VIII. *Bauhinia* 8 (2): 101–118.
- Hürlimann H (1986) *Riccia hawaiiensis* Hürl., species nova. *Phytologia* 61 (5): 339–342.
- Hürlimann H (1987) Hepaticae aus dem Gebiete des südlichen Pazifik. IX. *Bauhinia* 8 (4): 221–234.
- Hürlimann H (1989) Hepaticae aus dem Gebiete des südlichen Pazifik. X. *Bauhinia* 9 (2): 153–170.
- Hürlimann H (1991) Hepaticae aus dem Gebiete des südlichen Pazifik. XI. *Bauhinia* 9 (4): 257–264.
- Hürlimann H (1993) Hepaticae aus dem Gebiete des südlichen Pazifik. XII. *Bauhinia* 11 (1): 3–17.
- Hürlimann H (1995) Hepaticae aus dem Gebiete des südlichen Pazifik. XIII. *Bauhinia* 11 (3): 159–175.
- Hürlimann H (1998) Hepaticae aus dem Gebiete des südlichen Pazifik. XIV. *Bauhinia* 12 (1/2): 109–119.
- Hürlimann H, Yamada K (1979) A new species of *Radula* (Hepaticae) from New Caledonia. *Journal of Japanese Botany* 54 (8): 238–240.
- Husnot T (1875) *Hepaticologia gallica*, fasc. 1. F. Savy, Paris, 1–30.
- Ilkiu-Borges AL (2002) *Pictolejeunea reginae*, a new species of Lejeuneaceae (Hepaticae) from Venezuela. *Brittonia* 54 (4): 318–321. doi: 10.1663/0007-196X(2003)54[318:PRANSO]2.0.CO;2
- Ilkiu-Borges AL (2005) A taxonomic revision of *Echinocolea* (Lejeuneaceae, Hepaticae). *Nova Hedwigia* 80 (1/2): 45–71. doi: 10.1127/0029-5035/2005/0080-0045
- Ilkiu-Borges AL (2006) A taxonomic monograph of the genus *Prionolejeunea* (Lejeuneaceae, Jungermanniopsida). Cuvillier Verlag, Göttingen, 191 pp.
- Ilkiu-Borges AL (2011) On *Pycnolejeunea gradsteinii* (Lejeuneaceae), a new species from Brazil. *Boletim do Instituto de Botânica*. São Paulo 21 (1): 1–3.

- Ilkiu-Borges AL, Pereira Alvarenga LD (2008) On *Ceratolejeunea atlantica*, a new species of Lejeuneaceae from Brazil. *Nova Hedwigia* 86 (1/2): 237–241. doi: 10.1127/0029-5035/2008/0086-0237
- Ilkiu-Borges AL, Gradstein SR (2008) A new species of *Cheilolejeunea* (Spruce) Schiffn. (Lejeuneaceae) from Cerro de la Neblina, Venezuela. *Nova Hedwigia* 87 (3/4): 521–528. doi: 10.1127/0029-5035/2008/0087-0521
- Ilkiu-Borges AL, Schäfer-Verwimp A (2005) On *Prionolejeunea grollei*, a new species from the West Indies (Lejeuneaceae, Hepaticae). *Cryptogamie, Bryologie* 26 (1): 29–35.
- Infante M (2010) Notes on the genus *Dendroceros* in West Africa and south Atlantic Islands. *Journal of Bryology* 32 (4): 283–287. doi: 10.1179/037366810X12814321877426
- Infante M, Heras P (1999) Bryophytes from the Republic of Equatorial Guinea (West Central Africa). VI. *Cololejeunea iradieri* sp. nov., *Cololejeunea magna* stat. nov. and their relations to similar species. *Tropical Bryology* 17: 13–18.
- Infante M, Heras P, Pócs T (1999) Bryophytes from the Republic of Equatorial Guinea (West Central Africa). V. *Diplasiolejeunea cogoensis* sp. nov. *Tropical Bryology* 17: 9–12.
- Ingham W (1904) *Scapania calcicola*, a new British hepatic. *Naturalist*. London, Huddersfield, Hull, etc. 564: 11–12.
- Inoue H (1956) A new and additional descriptions of hepaticae from Titibu district. *Journal of Japanese Botany* 31 (11): 340–344.
- Inoue H (1958) The family Plagiochilaceae of Japan and Formosa. II. *Journal of the Hattori Botanical Laboratory* 20: 54–106.
- Inoue H (1959a) Hepatics from Isl. Palau, Caroline. *Journal of Japanese Botany* 34 (9): 267–271.
- Inoue H (1959b) On *Metacalypogeia*, a new genus of Hepaticae. *Journal of the Hattori Botanical Laboratory* 21: 231–235.
- Inoue H (1959c) A review of Japanese species of *Lophocolea* Dum. *Journal of the Hattori Botanical Laboratory* 21: 214–230.
- Inoue H (1960) Contributions to the knowledge of Plagiochilaceae of southern Asia. II. On some Himalayan species of *Plagiochila*. *Journal of the Hattori Botanical Laboratory* 23: 29–36.
- Inoue H (1961a) A new *Lejeunea* (Hepaticae) from Japan. *Journal of Japanese Botany* 36 (1): 7–10.
- Inoue H (1961b) An interesting new species of *Lophozia* from limestone districts of Chichibu-Okutama mountains. *Journal of Japanese Botany* 36 (2): 41–45.
- Inoue H (1962a) Notes on *Plagiochila eatonii* Aust., a Hawaiian liverwort. *Journal of Japanese Botany* 37 (12): 357–360.
- Inoue H (1962b) Miscellaneous notes on hepatics of Japan (3). *Journal of Japanese Botany* 37 (4): 101–105.
- Inoue H (1962c) Two new species of *Plagiochila* Dum. *Journal of Japanese Botany* 37 (6): 187–190.
- Inoue H (1963) Contributions to the knowledge of the Plagiochilaceae of southeastern Asia. IV. The genus *Xenochila*. *Bulletin of the National Science Museum, Tokyo* (n.ser.) 6 (4): 372–377.
- Inoue H (1964a) Miscellaneous notes on hepatics of Japan (4). *Journal of Japanese Botany* 39 (4): 105–108.

- Inoue H (1964b) The genus *Plagiochilion*. *Journal of the Hattori Botanical Laboratory* 27: 51–72.
- Inoue H (1965a) Contributions to the knowledge of the Plagiochilaceae of southeastern Asia. VII. Synopsis of *Plagiochila* Dum. in the Himalayan region. *Bulletin of the National Science Museum, Tokyo* (n.ser.) 8 (3): 375–403.
- Inoue H (1965b) Some nomenclatural changes and synonyms in the genera *Syzygiella* and *Plagiochila*. *Bryologist* 68 (2): 217–219. doi: 10.2307/3241017
- Inoue H (1965c) Contributions to the knowledge of the Plagiochilaceae of southern Asia. VI. Studies on the *Plagiochila semidecurrrens* complex. *Journal of the Hattori Botanical Laboratory* 28: 209–218.
- Inoue H (1966a) New and noteworthy liverworts from Formosa. *Bulletin of the National Science Museum, Tokyo* (n.ser.) 9 (1): 37–41.
- Inoue H (1966b) Contributions to the knowledge of Plagiochilaceae of southeastern Asia, IX. *Plagiochila autoica* Steph. with a review of *Pedinophyllum*. *Bulletin of the National Science Museum, Tokyo* (n.ser.) 9 (4): 571–575.
- Inoue H (1966c) A monograph of the hepatic genus *Syzygiella* Spruce. *Journal of the Hattori Botanical Laboratory* 29: 171–213.
- Inoue H (1966d) Miscellaneous notes on hepatics of Japan (5). *Journal of Japanese Botany* 41 (1): 14–16.
- Inoue H (1967a) Studies on oil bodies of some Malayan liverworts. *Journal of the Hattori Botanical Laboratory* 30: 54–70.
- Inoue H (1967b) *Asterella shimizuana*, a new liverwort from New Guinea. *Bulletin of the National Science Museum, Tokyo* (n.ser.) 10 (3): 361–363.
- Inoue H (1967c) Three new hepatics from Malay Peninsula. *Bulletin of the National Science Museum, Tokyo* (n.ser.) 10 (2): 155–162.
- Inoue H (1967d) Taxonomic miscellany on the Plagiochilaceae. *Journal of Japanese Botany* 42 (6): 182–187.
- Inoue H (1968a) Taxonomic miscellany on the genera *Plagiochila* and *Syzygiella*. *Bulletin of the National Science Museum, Tokyo* (n.ser.) 11 (3): 299–307.
- Inoue H (1968b) A new species of *Calyptogeia* Raddi. *Journal of Japanese Botany* 43 (10/11): 468–472.
- Inoue H (1969) Contributions to the knowledge of Plagiochilaceae of southern Asia XIII. New species of *Plagiochila* with notes on sect. *Abietinae* and sect. *Peculiares*. *Journal of the Hattori Botanical Laboratory* 32: 99–115.
- Inoue H (1970a) Novae Guineae hepaticae Schusteranae. II. *Plagiochilae* species novae. *Journal of the Hattori Botanical Laboratory* 33: 317–330.
- Inoue H (1970b) Plagiochilaceae notes, I. On some species of *Plagiochila* from South Pacific Islands. *Journal of the Hattori Botanical Laboratory* 33: 305–316.
- Inoue H (1971a) Notes on the *Calyptogeia neesiana* complex in Japan. *Memoirs of the National Science Museum* 4: 55–58.
- Inoue H (1971b) *Nardia flagelliformis* (sp. nov.) with reference to the subgeneric and sectional revision of the genus *Nardia* Gray. *Journal of Japanese Botany* 46 (1): 1–7.

- Inoue H (1971c) Contributions to the knowledge of the Plagiochilaceae of southern Asia XVII. A new species of *Plagiochilion* from Sumatra. Bulletin of the National Science Museum, Tokyo (n.ser.) 14 (2): 269–272.
- Inoue H (1972a) Miscellaneous notes on hepatics of Japan (7). Journal of Japanese Botany 47 (11): 347–350.
- Inoue H (1972b) Four new species of *Plagiochila* from New Guinea. Journal of the Hattori Botanical Laboratory 36: 487–496.
- Inoue H (1972c) Plagiochilaceae notes part 3. *Plagiochila major* and *Plagiochila rhizophora* in the pacific northwest of North America. Bulletin of the National Science Museum, Tokyo (n.ser.) 15 (1): 181–190.
- Inoue H (1973) The genus *Fossombronina* Raddi in Japan. Journal of the Hattori Botanical Laboratory 37: 293–297.
- Inoue H (1974a) Contributions to the knowledge of the Plagiochilaceae of southeastern Asia. XV. Enumeration of *Plagiochila* species from Thailand. Journal of the Hattori Botanical Laboratory 38: 555–563.
- Inoue H (1974b) *Temnoma setigerum* (Lindenb.) Schust. from the Hawaiian Islands. Bulletin of the National Science Museum, Tokyo (n.ser.) 17 (3): 227–231.
- Inoue H (1975a) Notes on the Plagiochilaceae, V. Descriptions of some new species of *Plagiochila* Dum. Bulletin of the National Science Museum, Tokyo. Series B, Botany 1 (3): 83–100.
- Inoue H (1975b) Two new species of *Calypogeia* Raddi from Japan. Bulletin of the National Science Museum, Tokyo. Series B, Botany 1 (4): 135–140.
- Inoue H (1976a) Illustrations of Japanese hepaticae. 2. Tokyo, 193 pp.
- Inoue H (1976b) Notes on the Plagiochilaceae, V. Studies in the genus *Plagiochila* (Dum.) Dum. in the Hawaiian Islands. Journal of the Hattori Botanical Laboratory 40: 411–440.
- Inoue H (1976c) Contributions to the knowledge of the Plagiochilaceae of south-eastern Asia, part 16. On *Plagiochila hattori* new species from Japan. Bulletin of the National Science Museum, Tokyo. Series B, Botany 2 (3): 69–75.
- Inoue H (1977a) Notes on the Plagiochilaceae. VIII. Two new species of the genus *Plagiochila* (Dum.) Dum. from Mexico. Bulletin of the National Science Museum, Tokyo. Series B, Botany 3 (4): 135–142.
- Inoue H (1977b) A remarkable new species of the genus *Lejeunea* Libert from southern Japan. Bulletin of the National Science Museum, Tokyo. Series B, Botany 3 (4): 142–148.
- Inoue H (1977c) Notes on the Plagiochilaceae. VII. Four new species of the genus *Plagiochila* (Dum.) Dum. from the Galápagos Islands. Bulletin of the National Science Museum, Tokyo. Series B, Botany 3 (2): 45–54.
- Inoue H (1978a) Studies on Taiwan hepaticae. III. Subord. Herbertinae and subord. Ptilidiinae. Bulletin of the National Science Museum, Tokyo. Series B, Botany 4 (3): 93–100.
- Inoue H (1978b) *Anastrophyllum ellipticum* Inoue (sp. nov., Hepaticae) from Japan. Bulletin of the National Science Museum, Tokyo. Series B, Botany 4 (1): 13–17.
- Inoue H (1979a) Contributions to the knowledge of the Plagiochilaceae of southeastern Asia. XVIII. A review of the genus *Plagiochila* (Dum.) Dum. in Ceylon. Journal of the Hattori Botanical Laboratory 46: 193–233.

- Inoue H (1979b) Three new hepatics from Papua New Guinea. In: Kurokawa S (Ed.) Studies on Cryptogams of Papua New Guinea. Academia Scientific Book, Tokyo, 11–18.
- Inoue H (1979c) Contributions to the knowledge of the Plagiochilaceae of southeastern Asia. XVII. Descriptions of five new species of *Plagiochila* (Dum.) Dum. Bulletin of the National Science Museum, Tokyo. Series B, Botany 5 (1): 25–36.
- Inoue H (1980) A new species of *Plagiochila* (Hepaticae) from Tasmania. *Brunonia* 3 (1): 141–144. doi: 10.1071/BRU9800141
- Inoue H (1982) Studies on Taiwan hepaticae. IV. Plagiochilaceae. Bulletin of the National Science Museum, Tokyo. Series B, Botany 8 (4): 125–144.
- Inoue H (1984a) Notes on the Plagiochilaceae. XII. Notes on some species of *Plagiochila* (Dum.) Dum. from southern Chile and Argentina. In: Inoue H (Ed.) Studies on Cryptogams in Southern Chile. Kensei-sha, Tokyo, 97–108.
- Inoue H (1984b) The genus *Plagiochila* (Dum.) Dum. in southeast Asia. Academia Scientific Book, Tokyo, 142 pp.
- Inoue H (1985) Studies on Pallaviciniaceae and Allisoniaceae (Metzgeriales) in Japan. 2. The genus *Moerckia* Gott. Bulletin of the National Science Museum, Tokyo. Series B, Botany 11 (1): 1–10.
- Inoue H (1986) Contributions to the knowledge of the Plagiochilaceae of southeastern Asia. XIX. The genus *Plagiochila* from Isl. Seram. Bulletin of the National Science Museum, Tokyo. Series B, Botany 12 (3): 73–84.
- Inoue H (1987a) *Steeerochila*, a new genus of the Plagiochilaceae from the neotropics. *Memoirs of the New York Botanical Garden* 45: 279–282.
- Inoue H (1987b) Contributions to the knowledge of the Plagiochilaceae of Southeastern Asia XX. Studies on collections made by Dr. D. G. Long in Bhutan. Bulletin of the National Science Museum, Tokyo. Series B, Botany 13 (2): 41–51.
- Inoue H (1987c) Notes on the Plagiochilaceae. XIV. New species of *Plagiochila* (Dum.) Dum. from the neotropics. In: Inoue H (Ed.) Studies on the Cryptogams in Southern Peru. Tokai University Press, Tokyo, 95–105.
- Inoue H (1988a) Two new species of *Plagiochila* from the neotropics. *Beihefte zur Nova Hedwigia* 90: 171–175.
- Inoue H (1988b) Notes on the Plagiochilaceae, XV. The genus [sic] *Steeerochila* Inoue and *Plagiochila eggertii*, sp. nov. Bulletin of the National Science Museum, Tokyo. Series B, Botany 14 (4): 135–141.
- Inoue H (1988c) Two new species of *Plagiochila* from Papua New Guinea. *Journal of Japanese Botany* 63 (11): 365–369.
- Inoue H (1989a) Two new species of *Plagiochila* (Dum.) Dum. from Panamá, Central America. Bulletin of the National Science Museum, Tokyo. Series B, Botany 15 (3): 91–96.
- Inoue H (1989b) The bryophytes of Sabah (north Borneo) with special reference to the BRYOTROP transect of Mount Kinabalu V. *Plagiochila* (Plagiochilaceae, Hepaticae). *Willdenowia* 18 (2): 555–567.
- Inoue H (1989c) Taxonomic miscellany on hepatics 6. *Journal of Japanese Botany* 64 (7): 193–198.

- Inoue H, Gradstein SR (1988) A remarkable new species of *Anastrophyllum* (Spruce) Steph. (Hepaticae) from Mt. Roraima, Guyana. Bulletin of the National Science Museum, Tokyo. Series B, Botany 14 (3): 87–91.
- Inoue H, Miller HA (1965) Hepaticae from Kusaie, Caroline Islands. Bulletin of the National Science Museum, Tokyo (n.ser.) 8 (2): 139–160.
- Inoue H, Miller HA (1968) Noteworthy hepaticae from Micronesia. Bulletin of the National Science Museum, Tokyo (n.ser.) 11 (1): 1–12.
- Inoue H, Miller NG (1985) A new *Aneura* Dum. (Hepaticae, Aneuraceae) from eastern North America. Bulletin of the National Science Museum, Tokyo. Series B, Botany 11 (3): 95–101.
- Inoue H, Schuster RM (1971) A monograph of New Zealand and Tasmanian Plagiochilaceae. Journal of the Hattori Botanical Laboratory 34: 1–225.
- Inoue H, Yang B-Y (1966) The genus *Mylia* Gray in Taiwan. Taiwania 12 (1): 35–38.
- Inuthai J, Zhu R-L, Chantanaorrapint S (2014) *Drepanolejeunea actinogyna* (Lejeuneaceae), a new species from southern Thailand. Bryologist 117 (2): 165–169. doi: 10.1639/0007-2745-117.2.165
- Iwatsuki Z, Hattori S (1956) Studies of the epiphytic moss flora of Japan. 2. The bryophytic community on *Machilus japonica* in a dense hard-wood forest in a valley at Inohae in southern Kyūshū. Journal of the Hattori Botanical Laboratory 16: 83–90.
- Jack JB (1881) Die Europäischen *Radula*-Arten (Schluss). Flora 64 (25): 385–400.
- Jack JB (1886) Monographie der Lebermoosgattung *Physotium*. Hedwigia 25 (2/3): 49–87.
- Jack JB (1894) *Stephaniella paraphyllina* Jack nov. gen. hepaticarum. Hedwigia 33 (1): 11–14.
- Jack JB, Stephani F (1892) Hepaticae Wallisianae. Hedwigia 31 (1): 11–27.
- Jack JB, Stephani F (1894) Hepaticae in insulis Vitiensibus et Samoanis a Dre Ed. Graeffe anno 1864 lectae. Botanisches Centralblatt 60 (4): 97–109.
- Jack JB, Stephani F (1895) Hepaticae Lorentzianae. Hedwigia 34 (6): 313–318.
- Jacobs DL (1949) Two new *Riccias* from Georgia. Bryologist 52 (4): 167–172. doi: 10.2307/3239471
- Jelenc F (1950) Muscinées de l'Afrique du Nord (suite). Bulletin Trimestriel de Géographie et d'Archeologie [Oran] 73 (228): 59–89.
- Jensen CEO (1915) Danmarks mosser. I. Hepaticales, Anthocerotales og Sphagnales. Gyldendal, Copenhagen, 317 pp.
- Jones EW (1953a) African hepatics. III. *Cololejeunea* and *Leptocolea* with dentate leaves. Transactions of the British Bryological Society 2 (2): 158–163. doi: 10.1179/006813853804878191
- Jones EW (1953b) African hepatics. II. *Leptocolea* with hyaline-margined leaves. Transactions of the British Bryological Society 2 (2): 144–157. doi: 10.1179/006813853804878137
- Jones EW (1954a) African hepatics. VIII. *Diplasiolejeunea albifolia* (Taylor) E. W. Jones comb. nov. Transactions of the British Bryological Society 2 (3): 393–395. doi: 10.1179/006813854804830075
- Jones EW (1954b) African hepatics VII. The genus *Cheilolejeunea*. Transactions of the British Bryological Society 2 (3): 380–392. doi: 10.1179/006813854804830129
- Jones EW (1954c) African hepatics. X. *Leptocolea* and *Cololejeunea*. Transactions of the British Bryological Society 2 (3): 408–438. doi: 10.1179/006813854804830156

- Jones EW (1956) African hepatics. XI. The genus *Riccardia* in tropical Africa. Transactions of the British Bryological Society 3 (1): 74–84. doi: 10.1179/006813856804829741
- Jones EW (1957a) African hepatics. XIII. The Ricciaceae in tropical Africa. Transactions of the British Bryological Society 3 (2): 208–227. doi: 10.1179/006813857804829524
- Jones EW (1957b) African hepatics. XII. Some little-known Lejeuneaceae. Transactions of the British Bryological Society 3 (2): 191–207. doi: 10.1179/006813857804829533
- Jones EW (1958) African hepatics. XIV. Some *Cephaloziellas* of lowland tropical Africa. Transactions of the British Bryological Society 3 (3): 430–440. doi: 10.1179/006813858804829398
- Jones EW (1962) African hepatics XV. *Plagiochila* in Tropical Africa. Transactions of the British Bryological Society 4 (2): 254–325. doi: 10.1179/tbbs.1962.4.2.254
- Jones EW (1963) African hepatics. XVI. *Porella* in tropical Africa. Transactions of the British Bryological Society 4 (3): 446–461. doi: 10.1179/006813863804812327
- Jones EW (1964) African hepatics. XVII. *Gongylanthus* in tropical Africa. Transactions of the British Bryological Society 4 (4): 649–652. doi: 10.1179/006813864804812137
- Jones EW (1968) African hepatics. XIX. The *Lejeunea flava* complex. Transactions of the British Bryological Society 5 (3): 548–562. doi: 10.1179/006813868804146863
- Jones EW (1969) African hepatics. XXI. *Microlejeunea*, *Chaetolejeunea* and *Pleurolejeunea*. Transactions of the British Bryological Society 5 (4): 775–789. doi: 10.1179/006813869804146637
- Jones EW (1972) African hepatics. XXIII. Some species of *Lejeunea*. Journal of Bryology 7 (1): 23–45. doi: 10.1179/jbr.1972.7.1.23
- Jones EW (1973) African hepatics. XXIV. Lejeuneaceae: some new or little-known species and extensions of range. Journal of Bryology 7 (4): 545–561. doi: 10.1179/jbr.1973.7.4.545
- Jones EW (1974) African hepatics. XXVI. The *Lejeunea eckloniana* complex. Journal of Bryology 8 (1): 77–91. doi: 10.1179/jbr.1974.8.1.77
- Jones EW (1975) African hepatics. XXVII. *Bazzania*. Journal of Bryology 8 (3): 299–316. doi: 10.1179/jbr.1975.8.3.299
- Jones EW (1976) African hepatics. XXIX. Some little-known species and extensions of range. Journal of Bryology 9 (1): 43–54. doi: 10.1179/jbr.1976.9.1.43
- Jones EW (1977) African hepatics. XXX. The genus *Radula* Dumortier. Journal of Bryology 9 (4): 461–504. doi: 10.1179/jbr.1977.9.4.461
- Jones EW (1979) African hepatics. XXXI. Rare or little-known Lejeuneaceae and extensions of range. Journal of Bryology 10 (4): 387–400. doi: 10.1179/jbr.1979.10.4.387
- Jones EW (1982) African hepatics. XXXIII. Some new Lejeuneaceae. Journal of Bryology 12 (1): 37–48. doi: 10.1179/jbr.1982.12.1.37
- Jones EW (1985) African hepatics. XXXIV. Little-known or new Lejeuneaceae. Journal of Bryology 13 (3): 385–398. doi: 10.1179/jbr.1985.13.3.385
- Jones EW (1986) African hepatics. XXXV. Some new or little-known species and some noteworthy records. Journal of Bryology 13 (4): 497–508. doi: 10.1179/jbr.1985.13.4.497
- Jones EW (1988) African hepatics XXXVIII. *Cheilolejeunea* subg. *Strepsilejeunea* (Spruce) Schust., with special reference to East Africa. Journal of Bryology 15 (1): 149–160. doi: 10.1179/jbr.1988.15.1.149
- Jones EW (1989) African hepatics. XXXIX. Some dioecious species of *Lejeunea*. Journal of Bryology 15 (4): 665–673. doi: 10.1179/jbr.1989.15.4.665

- Jones EW (1992) African hepatics. XLII. *Radula marojezica* E.W.Jones, a new species from Madagascar. *Journal of Bryology* 17 (2): 307–311. doi: 10.1179/jbr.1992.17.2.307
- Jones EW, Harrington AJ (1983) The hepatics of Sierra Leone and Ghana. *Bulletin of the British Museum (Natural History), Botany* 11 (3): 215–289.
- Jones EW, Pócs T (1987) African hepatics. XXXVI. Three new species of *Colura*. *Journal of Bryology* 14 (3): 495–501.
- Jørgensen E (1894) Om floraen i Nord-reisen og tilstødende dele af Lyngen. *Forhandlinger i Videnskabs-Selskabet i Kristiania* 1894 (8): 1–104.
- Jørgensen E (1922) Notiser til Norges levermosflora 1. *Bergens Museums Aarbok* 1919/20 (7): 1–6.
- Jørgensen E (1934) Norges levermossor. *Bergens Museums Skrifter (n.ser.)* 16: 1–343.
- Jovet-Ast S (1947a) A propos du *Lepidozia Aubertii* Jovet-Ast (= *L. Wallichii* St. ms.). *Candollea* 11: 31–35.
- Jovet-Ast S (1947b) Hépatiques des Antilles françaises récoltées par P. et V. Allorge en 1936. I. *Revue Bryologique et Lichénologique* 16 (1/2): 17–46.
- Jovet-Ast S (1948) Hépatiques des Antilles françaises récoltées par P. et V. Allorge en 1936 II. *Revue Bryologique et Lichénologique* 17 (1/4): 24–34.
- Jovet-Ast S (1949a) Hépatiques des Antilles françaises récoltées par P. et V. Allorge en 1936 III. *Revue Bryologique et Lichénologique* 18 (1/2): 35–42.
- Jovet-Ast S (1949b) Récoltes de J. T. Buchholz en Nouvelle-Calédonie. *Revue Bryologique et Lichénologique* 18 (1/2): 83.
- Jovet-Ast S (1951) Hépatiques des Nouvelles-Hebrides. Récoltes de E. Aubert de la Rüe, 1934. *Revue Bryologique et Lichénologique* 20 (1/2): 96–98.
- Jovet-Ast S (1953) Le genre *Colura*, Hépatiques, Lejeunéacées, Diplasiae. *Revue Bryologique et Lichénologique* 22 (2/3): 206–312.
- Jovet-Ast S (1954) Le genre *Colura*, Hépatiques, Lejeunéacées, Diplasiae (supplément). *Revue Bryologique et Lichénologique* 23 (1/2): 1–22.
- Jovet-Ast S (1955) *Harpalejeunea herzogii* S. J.-A., Lejeunéacée nouvelle de la Guadeloupe. *Feddes Repertorium Specierum Novarum Regni Vegetabilis* 58: 19–22.
- Jovet-Ast S (1956) Deux *Colura* nouveaux de Madagascar. *Revue Bryologique et Lichénologique* 25 (3/4): 272–276.
- Jovet-Ast S (1958) Hépatiques du Cambodge récoltées par le Professeur Roger Heim. *Revue Bryologique et Lichénologique* 27 (1/2): 24–30.
- Jovet-Ast S (1959) Un *Microlejeunea* nouveau de l'île de la Réunion. *Revue Bryologique et Lichénologique* 27 (3/4): 191–194.
- Jovet-Ast S (1960) Muscinées du Mexique récoltées par Roger Heim en 1956 et 1959. *Revue Bryologique et Lichénologique* 29 (1/2): 30–43.
- Jovet-Ast S (1961) *Colura* de Sud-Vietnam (Récoltes de Pierre Tixier). *Revue Bryologique et Lichénologique* 30 (1/2): 5–12.
- Jovet-Ast S (1965) *Riccia crystallina* L. emend. Raddi et *Riccia cavernosa* Hoffm. emend. Raddi (Note préliminaire). *Revue Bryologique et Lichénologique* 33 (3/4): 459–483.
- Jovet-Ast S (1967a) Compléments à l'étude des *Colura*: localités nouvelles; description d'une espèce nouvelle de Borneo. *Revue Bryologique et Lichénologique* 35 (1/4): 143–148.

- Jovet-Ast S (1967b) *Colura* récoltes du Pakistan aux Philippines par Pierre Tixier. *Revue Bryologique et Lichénologique* 35 (1/4): 138–142.
- Jovet-Ast S (1976) Compléments à la connaissance des *Colura*: espèces et localités nouvelles. *Revue Bryologique et Lichénologique* 42 (4): 909–922.
- Jovet-Ast S (1978) *Riccia* des îles Galápagos. *Revue Bryologique et Lichénologique* 44 (4): 411–428.
- Jovet-Ast S (1980) La section *Oidocrorys* S. J.-A. du genre *Colura* Dum. est-elle agée de plus de 100 millions d'années? *Cryptogamie: Bryologie, Lichénologie* 1 (3): 277–287.
- Jovet-Ast S (1983) *Colura* nouveaux d'origines diverses (Hépatiques, Lejeunéacées). *Cryptogamie: Bryologie, Lichénologie* 4 (3): 205–216.
- Jovet-Ast S (1986) Les *Riccia* de la région méditerranéenne. *Cryptogamie: Bryologie, Lichénologie* 7 (3, suppl.): 283–431.
- Jovet-Ast S (1987) Une *Riccia* nouveau du Nord-est du Brésil: *Riccia vitalii* (Ricciaceae, sous-genre *Riccia*). *Memoirs of the New York Botanical Garden* 45: 283–288.
- Jovet-Ast S (1989) Un complexe de taxons dans le genre *Riccia*. *Cryptogamie: Bryologie, Lichénologie* 10 (2): 95–117.
- Jovet-Ast S (1991) *Riccia* (Hépatiques, Marchantiales) d'Amérique latine. Taxons du sous-genre *Riccia*. *Cryptogamie: Bryologie, Lichénologie* 12 (3): 189–370.
- Jovet-Ast S (1993a) *Riccia* (sous-genre *Riccia*) de l'île de la Réunion. *Journal of the Hattori Botanical Laboratory* 74: 95–104.
- Jovet-Ast S (1993b) *Riccia* L. (Hépatiques, Marchantiales) d'Amérique latine. Taxons des sous-genres *Thallocarpus*, *Leptoriccia*, *Ricciella*. *Cryptogamie: Bryologie, Lichénologie* 14 (3): 219–301.
- Jovet-Ast S (1996) *Riccia Triseriata* subg. nov. et *R. singularis* sp. nov., taxons nouveaux d'Australie. *Cryptogamie: Bryologie, Lichénologie* 17 (2): 127–133.
- Jovet-Ast S (1997) Une *Riccia* prolifère d'Australie: *Riccia pullulans* sp. nov. (sous-genre *Ricciella*). *Cryptogamie: Bryologie, Lichénologie* 18 (3): 183–189.
- Jovet-Ast S (2000) Documents pour la connaissance des *Riccia* australiens (Hépatiques, Marchantiales) – nouvelles récoltes. Taxons nouveaux. Commentaires morphologiques et écologiques. *Cryptogamie, Bryologie* 21 (4): 289–343. doi: 10.1016/S1290-0796(00)01042-7
- Jovet-Ast S (2003) *Riccia* des sous-genres *Riccia* et *Ricciella* récoltées en Inde et en Indonésie. *Cryptogamie, Bryologie* 24 (3): 209–228.
- Jovet-Ast S, Tixier P (1958) Hépatiques du Viet-Nam – I. *Revue Bryologique et Lichénologique* 27 (3/4): 201–210.
- Jovet-Ast S, Tixier P (1962) Hépatiques du Viet-Nam – II. *Revue Bryologique et Lichénologique* 31 (1/2): 23–33.
- Juślén A (2006a) Revision of Asian *Herbertus* (Herbertaceae, Marchantiophyta). *Annales Botanici Fennici* 43 (6): 409–436.
- Juślén A (2006b) Phylogeny of Vetaformaceae, Lepicoleaceae and Herbertaceae (including Mastigophoraceae) inferred from chloroplast *trnL-F*, nuclear ITS2, and morphology. *Annales Botanici Fennici* 43 (5): 349–362.
- Kaalaas B (1893a) Levermosernes udbredelse i Norge. *Nyt Magazin for Naturvidenskaberne* 33 (1): 1–192.

- Kaalaas B (1893b) Levermosernes udbredelse i Norge. *Nyt Magazin for Naturvidenskaberne* 33 (4/5): 289–490.
- Kaalaas B (1896) *Scapania gymnostomophila* n. sp. *Botaniska Notiser* 49: 21–22.
- Kaalaas B (1898) Beiträge zur Lebermoosflora Norwegens. Skrifter udgivne af Videnskabs-Selskabet i Christiania. Mathematisk-Naturvidenskabelig Klasse 1898 (9): 1–28.
- Kaalaas B (1902) *Cephaloziae* species duae novae. *Revue Bryologique* 29 (1): 8–10.
- Kaalaas B (1911) Bryophyten aus den Crozet-inseln. I. *Nyt Magazin for Naturvidenskaberne* 49 (2/3): 81–98.
- Kachroo P (1952) Notes on Assam hepaticae. A preliminary note. *Journal of Gauhati India University* 3: 129–131.
- Kachroo P (1958) Morphology of Rebouliaceae. III. Development of sex organs, sporangium and interrelationships of the various genera. *Journal of the Hattori Botanical Laboratory* 19: 1–24.
- Kachroo P (1968) History of the genus *Cheilolejeunea*. *Ceylon Journal of Science. Biological Sciences* 8 (1): 1–10.
- Kachroo P, Schuster RM (1961) The genus *Pycnolejeunea* and its affinities to *Cheilolejeunea*, *Euosmolejeunea*, *Nipponolejeunea*, *Tuyamaella*, *Siphonolejeunea* and *Strepsilejeunea*. *Journal of the Linnean Society. Botany* 56 (368): 475–511. doi: 10.1111/j.1095-8339.1961.tb02542.x
- Kachroo P, Bapna KR, Dhar GL (1977) Hepaticae of India – A taxonomic survey and census. V. Fossombroniaceae through anthocerotae. *Journal of the Indian Botanical Society* 56 (1): 62–86.
- Kahn SA (1955) *Riccia perssonii* S. A. Kahn: a new and interesting species from East Pakistan. *Svensk Botanisk Tidskrift* 49 (3): 433–436.
- Kamimura M (1955) Two new species of Lejeuneaceae Astipae from Japan. *Feddes Repertorium Specierum Novarum Regni Vegetabilis* 58: 55–59.
- Kamimura M (1961) A monograph of Japanese Frullaniaceae. *Journal of the Hattori Botanical Laboratory* 24: 1–109.
- Kamimura M (1962) On the genus *Neohattoria* Kamim. nom. nov. *Journal of Japanese Botany* 37 (7): 218.
- Kamimura M (1970) Some addenda to the Frullaniaceae of Japan and neighboring areas. I. *Bulletin of Kochi Gakuen Junior College* 1: 51–53.
- Kamimura M (1971) Some addenda to the Frullaniaceae of Japan and neighboring areas. II. *Bulletin of Kochi Gakuen Junior College* 2: 21–25.
- Kamimura M (1982) Some addenda to the *Frullania* of Japan and neighbouring areas III. *Miscellanea Bryologica et Lichenologica* 9 (4): 87–93.
- Kanwal HS (1979) A new species of *Riccia* L., *R. udarii* sp. nov. from Kumaon (Western Himalayas) India. *Journal of the Indian Botanical Society* 58 (3): 281–285.
- Kashyap SR (1914a) Morphological and biological notes on new and little known West Himalayan Liverworts. I. *New Phytologist* 13 (6/7): 206–226. doi: 10.1111/j.1469-8137.1914.tb05751.x
- Kashyap SR (1914b) Morphological and biological notes on new and little known West Himalayan liverworts. II. *New Phytologist* 13 (9): 308–323. doi: 10.1111/j.1469-8137.1914.tb05760.x

- Kashyap SR (1915) Morphological and biological notes on new and little known west Himalayan liverworts III. *New Phytologist* 14 (1): 1–18. doi: 10.1111/j.1469-8137.1915.tb07159.x
- Kashyap SR (1916) Liverworts of the western Himalayas and the Punjab, with notes on known species and descriptions of new species I. *Journal of the Bombay Natural History Society* 24 (2): 343–350.
- Kashyap SR (1917) Liverworts of the western Himalayas and the Punjab, with notes on known species and descriptions of new species II. *Journal of the Bombay Natural History Society* 25 (2): 279–281.
- Kashyap SR (1928) A new species of *Petalophyllum*, *P. indicum* Kash. *Journal of the Indian Botanical Society* 7: 14.
- Kashyap SR (1929) Liverworts of the western Himalayas and the Panjab plain, part 1. University of the Panjab, Lahore, 129 pp.
- Kashyap SR, Chopra RS (1932) Liverworts of the western Himalayas and the Panjab plain, part 2. University of the Panjab, Lahore, 137 pp.
- Kashyap SR, Dutt NL (1925) The genus *Notothylas* in India. *Proceedings of the Lahore Philosophical Society* 4: 49–56.
- Katagiri T (2013) A tropical American species, *Trichocolea filicaulis*, new to Papua New Guinea. *Hikobia* 16 (3): 293–298.
- Katagiri T, Deguchi H (2012) Taxonomic studies of the Trichocoleaceae in southeast Asia I. The genus *Leiomitra* Lindb. *Bryologist* 115 (4): 475–492. doi: 10.1639/0007-2745-115.4.475
- Katagiri T, Yamaguchi T (2011) [Validation of *Porella caespitans* var. *cordifolia*]. *Bryological Research* 10 (5): 133–134.
- Katagiri T, Miyauchi H, Deguchi H (2011) *Trichocolea japonica* (Trichocoleaceae), a new species from Japan. *Bryologist* 114 (4): 744–748. doi: 10.1639/0007-2745-114.4.744
- Katagiri T, Suleiman M, Deguchi H (2012) Taxonomic studies of the Trichocoleaceae in southeast Asia II. A new species of *Eotrichocolea* from Malaysia. *Bryologist* 115 (4): 518–522. doi: 10.1639/0007-2745-115.4.518
- Katagiri T, Sadamitsu A, Miyauchi H, Tsubota H, Deguchi H (2013) Taxonomic studies of the Trichocoleaceae in Southeast Asia. III. The genus *Trichocolea* Dumort. *Hattoria* 4: 1–42.
- Kavina K (1915) Monografie českých jatrovek. Díl. I. Jatrovky lupenité (Hepaticae frondosae Bohemiae). *Archiv pro Přírodovědecký výzkum Čech* 16 (2): 1–284.
- Khan SA (1957) Studies in Ricciaceae of East Pakistan. I. New and little known species of *Riccia*. *Bryologist* 60 (1): 28–32. doi: 10.2307/3240049
- Khanna LP (1933) A new species of *Notothylas* from Rangoon. *Revue Bryologique et Lichénologique* 6: 116–118.
- Khanna LP (1936) On Indian species of the genus *Anthoceros* Linn. with a description of a new species from Travancore. *Journal of the Indian Botanical Society* 15 (4): 235–240.
- Khanna LP (1938) On two species of *Anthoceros* from China. *Journal of the Indian Botanical Society* 17 (5/6): 311–323.
- Kitagawa N (1959) New or interesting species of *Gymnomitrium* (Hepaticae) in Japan. *Acta Phytotaxonomica et Geobotanica* 18 (2/3): 33–38.

- Kitagawa N (1960a) Notes on the hepatic flora of Island of Yakushima. *Acta Phytotaxonomica et Geobotanica* 18 (7): 187–192.
- Kitagawa N (1960b) New or interesting species of *Marsupella* in Japan. *Memoirs of the College of Science, Kyoto Imperial University. Series B. Biology* 27: 75–82.
- Kitagawa N (1962a) Status of *Gymnomitrium concinnatum* var. *mucronulatum*. *Acta Phytotaxonomica et Geobotanica* 19 (2/3): 53.
- Kitagawa N (1962b) [Hepaticae of Mt. Tsurugi in Shikoku, Japan]. *Acta Phytotaxonomica et Geobotanica* 19 (2/3): 54–66.
- Kitagawa N (1963a) Lophoziaceae of Taiwan (Formosa). *Hikobia* 3 (3): 169–176.
- Kitagawa N (1963b) A revision of the family Marsupellaceae of Japan. *Journal of the Hattori Botanical Laboratory* 26: 76–118.
- Kitagawa N (1964) A new genus of hepaticae from North Borneo. *Journal of the Hattori Botanical Laboratory* 27: 178–182.
- Kitagawa N (1965) A revision of the family Lophoziaceae of Japan and its adjacent regions. I. *Journal of the Hattori Botanical Laboratory* 28: 239–291.
- Kitagawa N (1967a) Studies on the hepaticae of Thailand. I. The genus *Bazzania*, with general introduction. *Journal of the Hattori Botanical Laboratory* 30: 249–270.
- Kitagawa N (1967b) *Marsupellae* of Mt. Kinabalu, North Borneo. *Journal of the Hattori Botanical Laboratory* 30: 199–204.
- Kitagawa N (1969a) A new species of *Andrewsianthus* from North Borneo. *Journal of the Hattori Botanical Laboratory* 32: 307–310.
- Kitagawa N (1969b) A new species of *Cololejeunea* (*Chondriolejeunea*) from Malay Peninsula. *Acta Phytotaxonomica et Geobotanica* 23 (5/6): 184–188.
- Kitagawa N (1969c) Studies on the hepaticae of Thailand. II. *Cephalozia* and *Cephaloziella*. *Journal of the Hattori Botanical Laboratory* 32: 290–306.
- Kitagawa N (1970) Lophoziaceae of North Borneo. *Journal of the Hattori Botanical Laboratory* 33: 203–221.
- Kitagawa N (1972) Miscellaneous notes on little-known species of hepaticae, 1–25. *Journal of the Hattori Botanical Laboratory* 36: 444–454.
- Kitagawa N (1973) Miscellaneous notes on little-known species of hepaticae, 26–50. *Journal of the Hattori Botanical Laboratory* 37: 263–273.
- Kitagawa N (1977) Studies on Asian species of *Bazzania*, Hepaticae, I. *Bulletin of Nara University of Education. Series B, Natural Sciences* 26 (2): 73–82.
- Kitagawa N (1978) The d of Thailand collected by Dr. A. Touw (I). *Acta Phytotaxonomica et Geobotanica* 29 (1/5): 47–64.
- Kitagawa N (1979a) Studies on Asian species of *Bazzania*, hepaticae, II. *Bulletin of Nara University of Education. Series B, Natural Sciences* 28 (2): 71–83.
- Kitagawa N (1979b) The hepaticae of Thailand collected by Dr. A. Touw (II). *Acta Phytotaxonomica et Geobotanica* 30 (1/3): 31–40.
- Kitagawa N (1980) New Guinean species of the genus *Bazzania*, I. *Journal of the Hattori Botanical Laboratory* 47: 127–143.
- Kitagawa N (1981a) Miscellaneous notes on little-known species of hepaticae, 51–70. *Hikobia*, suppl. 1: 67–72.

- Kitagawa N (1981b) Two interesting species of the hepaticae from the Philippines. *Miscellanea Bryologica et Lichenologica* 9 (1): 8–10.
- Kitagawa N (1982) A remarkable new species of *Hygrobiella* from Japan. *Miscellanea Bryologica et Lichenologica* 9 (4): 69–72.
- Kitagawa N (1984) A new genus of the hepaticae from New Caledonia. *Acta Phytotaxonomica et Geobotanica* 35 (1/3): 1–6.
- Kitagawa N (1985) A study of the genus *Acromastigum* (Hepaticae) of New Caledonia. *Acta Phytotaxonomica et Geobotanica* 36 (4/6): 107–122.
- Kitagawa N (1988) Studies on the hepaticae of Thailand. V. The Family Calypogeiaceae. *Beihefte zur Nova Hedwigia* 90: 163–170.
- Kitagawa N, Grolle R (1985) A new name for *Acrosocyphus* N. Kitag., Hepaticae. *Acta Phytotaxonomica et Geobotanica* 36 (1/3): 58.
- Kitagawa N, Grolle R (1986) A new *Acromastigum*-like species of *Bazzania* S. Gray from Bhutan. *Journal of the Hattori Botanical Laboratory* 61: 269–272.
- Kitagawa N, Kodama T (1973) Enumeration of hepaticae collected by Drs. S. Kokawa and M. Hotta in Sabah (North Borneo) I. *Bulletin of the Osaka Museum of Natural History* 27: 11–21.
- Kitagawa N, Kodama T (1974) Enumeration of hepaticae collected by Drs. S. Kokawa and M. Hotta in Sabah (North Borneo) II. *Bulletin of the Osaka Museum of Natural History* 28: 33–48.
- Kitagawa N, Kodama T (1975a) A remarkable new species of *Bazzania* (Hepaticae) with endogenous gemmae. *Journal of Japanese Botany* 50 (1): 11–14.
- Kitagawa N, Kodama T (1975b) Two new species of *Bazzania* with an unusual habitat in Sabah (North Borneo). *Journal of the Hattori Botanical Laboratory* 39: 67–70.
- Knapp S, McNeill J, Turland N (2011) Changes to publication requirements made at the XVIII International Botanical Congress in Melbourne: What does e-publication mean for you? *Phytotaxa* 28: 1–5.
- Kodama T (1976) Three new species of Lejeuneaceae from the Kinabalu National Park, Sabah (North Borneo). *Journal of the Hattori Botanical Laboratory* 41: 381–387.
- Koike N (1994) *Frullania* taxa of some islands of Micronesia. *Journal of the Hattori Botanical Laboratory* 75: 183–192.
- Konstantinova NA (2000) Redkie pechenochniki (Hepaticae) Murmanskogo oblasti i podhody k ih ohrane [Rare liverworts (Hepaticae) of Murmansk province and some approaches to their protection]. *Botanicheskij Zhurnal. Moscow & Leningrad* 85 (10): 122–135.
- Konstantinova NA, Potemkin AD (1994) Studies on *Scapania sphaerifera* (Hepaticae). *Annales Botanici Fennici* 31 (2): 121–126.
- Konstantinova NA, Vasil'ev AN (1994) On the hepatic flora of Sayan Mountains (south Siberia) [K flore pečenočnikov Saân (ûžnaâ Sibir')]. *Arctoa* 3: 123–132. doi: 10.15298/arctoa.03.07
- Konstantinova NA, Vilnet AA (2009) New taxa and new combinations in Jungermanniales (Hepaticae). *Arctoa* 18: 65–67. doi: 10.15298/arctoa.18.02
- Konstantinova NA, Vilnet AA (2011) *Jubula hutchinsiae* subsp. *caucasica* subsp. nov. (Jubulaceae, Marchantiophyta) – a new taxon from the western Caucasus. *Arctoa* 20: 227–238. doi: 10.15298/arctoa.20.18

- Konstantinova NA, Potemkin AD, Shliakov RN (1992) Checklist of the hepaticae and anthocerotae of the former USSR. *Arctoa* 1: 87–127. doi: 10.15298/arctoa.01.02
- Konstantinova NA, Bakalin VA, Andreeva EN, Bezgodov AG, Borovichev EA, Dulin MA, Mamontov YS (2009) Checklist of liverworts (Marchantiophyta) of Russia. *Arctoa* 18: 1–64. doi: 10.15298/arctoa.18.01
- Konstantinova NA, Vilnet AA, Söderström L, Hagborg A, von Konrat MJ (2013a) Notes on Early Land Plants Today. 14. Transfer of two *Macrodiplophyllum* species to *Douinia* (Scapaniaceae, Marchantiophyta). *Phytotaxa* 76 (3): 31–32. doi: 10.11646/phytotaxa.76.3.2
- Konstantinova NA, Söderström L, Hagborg A, von Konrat MJ (2013b) Notes on Early Land Plants Today. 15. *Apotreubia hortoniae* validated (Treubiaceae, Marchantiophyta). *Phytotaxa* 76 (3): 33. doi: 10.11646/phytotaxa.76.3.3
- Konstantinova NA, Vilnet AA, Söderström L, Hagborg A, von Konrat M (2014a) Notes on Early Land Plants Today. 53. Hygrobrellaceae (Marchantiophyta) validated. *Phytotaxa* 167 (2): 217. doi: 10.11646/phytotaxa.167.2.12
- Konstantinova NA, Söderström L, Hagborg A, von Konrat M (2014b) Notes on Early Land Plants Today. 51. Validation of *Schistochilopsis hyperarctica* (Scapaniaceae, Marchantiophyta). *Phytotaxa* 162 (4): 240. doi: 10.11646/phytotaxa.162.4.10
- Koponen TJ, Isoviita P, Lammes T (1977) The bryophytes of Finland: an annotated checklist. *Flora Fennica* 6: 1–77.
- Koponen TJ, Järvinen I, Isoviita P (1978) Bryophytes from the Soviet Far East, mainly the Khabarovsk territory. *Annales Botanici Fennici* 15 (2): 107–121.
- Koponen TJ, Cao T, Huttunen S, Juslén A, Peng C, Piippo S, Rao P, Váňa J, Virtanen V (2004) Bryophyte flora of Hunan Province, China. 3. Bryophytes from Taoyuandong and Yankou nature reserves and Badagongshan and Hupingshan national nature reserves, with additions to floras of Mangshan Nature Reserve and Wulingyuan Global cultural Heritage Area. *Acta Botanica Fennica* 177: 1–47.
- Krauss F (1846) Pflanzen des Cap- und Natal-Landes. Div. II. Plantae cellulares. *Flora* 29 (9): 129–138.
- Kreh W (1909) Über die Regeneration der Lebermoose. *Nova Acta Academiae Caesareae Leopoldino-Carolinae Germanicae Naturae Curiosorum* 90 (4): 213–301.
- Kreier H-P, Feldberg K, Mahr F, Bombosch A, Schmidt AR, Zhu R-L, von Konrat M, Shaw B, Shaw AJ, Heinrichs J (2010) Phylogeny of the leafy liverwort *Ptilidium*: Cryptic speciation and shared haplotypes between the Northern and Southern Hemispheres. *Molecular Phylogenetics and Evolution* 57 (3): 1260–1267. doi: 10.1016/j.ympev.2010.10.002
- Krémer J-P (1837) Monographie des hépatiques de la Moselle. Metz, 44 pp.
- Kruijt RC (1988) A monograph of the genera *Dicranolejeunea* and *Acanthocoleus*. *Bryophytorum Bibliotheca* 36: 1–135.
- Kruijt RC, Gradstein SR (1985) A new genus of Lejeuneaceae from Tropical America: *Lindigianthus* gen. nov. *Beihefte zur Nova Hedwigia* 80: 165–172.
- Kruijt RC, Gradstein SR (1986) Studies on Lejeuneaceae subfam. Ptychanthoideae X. On *Brachiolejeunea phyllorhiza* (Nees) Kruijt & Gradstein comb. nov. (Hepaticae). *Nova Hedwigia* 43 (3/4): 299–309.

- Kühnemann O (1937) Contribución al catálogo briológico argentino. I. Revista del Centro de Estudiantes del Doctorado en Ciencias Naturales 1: 155–179.
- Kumar D, Manocha N (1999) *Herbertus udarii* Kumar et Manocha, a new species from India. Geophytology 29 (1/2): 105–109.
- Kummer P (1875) Der Führer in die Lebermoose und die Gefässkryptogamen. Springer Verlag, Berlin, 141 pp. doi: 10.1007/978-3-642-91857-5
- Kunth CS (1822) Synopsis plantarum. Tomus primus. F. G. Levrault, Paris, 491 pp. doi: 10.5962/bhl.title.638
- Kuntze O (1891) Revisio generum plantarum. Pars II. Arthur Felix, Leipzig, 375–1011. doi: 10.5962/bhl.title.327
- Kuwahara Y (1965) The Metzgeriaceae of Mt. Kinabalu, North Borneo. Journal of the Hattori Botanical Laboratory 28: 166–170.
- Kuwahara Y (1969a) An addendum to the Himalayan Metzgeriaceae. Journal of the Hattori Botanical Laboratory 32: 17–20.
- Kuwahara Y (1969b) Taxonomic and phytogeographic accounts of three new species of the hepatic genus *Metzgeria* from higher altitudes of New Guinea, the Philippines and Japan. Revue Bryologique et Lichénologique 36 (3/4): 531–542.
- Kuwahara Y (1973a) *Steereella*, a new genus of hepaticae from the West Indies. American Journal of Botany 60 (6): 602–606. doi: 10.2307/2441386
- Kuwahara Y (1973b) Further notes on the production of vegetative thallus structures by female involucre of *Metzgeria*, and a new species of *Metzgeria*. Bryologist 76 (4): 566–571. doi: 10.2307/3241426
- Kuwahara Y (1976a) Studies of genus *Metzgeria* of Colombia collected by Mme. Hélène Bischler, 1956–1959. Journal of the Hattori Botanical Laboratory 40: 259–290.
- Kuwahara Y (1976b) *Metzgeria temperata*, a new holarctic species of hepaticae. Journal of the Hattori Botanical Laboratory 40: 217–220.
- Kuwahara Y (1976c) Four new *Metzgeria* species from South America. Journal of the Hattori Botanical Laboratory 40: 509–519.
- Kuwahara Y (1978) Elaterophores observed in two new species of *Metzgeria* from Peru and considerations of the elaterophore in the hepaticae. Bryologist 81 (3): 404–410. doi: 10.2307/3242242
- Kuwahara Y (1980a) Four new species of the Metzgeriaceae (Hepaticae) from the subantarctic region, with enumeration of previously reported taxa of the family. Hikobia 8 (3/4): 274–296.
- Kuwahara Y (1980b) *Metzgeria maegdefraui*, spec. nova from the neotropics. Hikobia 8 (3/4): 269–273.
- Kuwahara Y (1981) Studies of Peruvian collections of the genus *Metzgeria* made by P. & E. Hegewald in 1973 and 1977. Nova Hedwigia 34: 769–815.
- Kuwahara Y (1982) Studies on Colombian cryptogams. XV. On high Andean *Metzgeria* collected by Dr. Antoine M. Cleef in 1972 and 1973. Proceedings, Koninklijke Nederlandse Akademie van Wetenschappen. Series C, biological and medical sciences 85 (3): 357–380.
- Kuwahara Y (1983) *Metzgeria subundulata* (Aust. ex Lindb.) Kuw., stat. nov. from Texas. Bryologist 86 (3): 276–277. doi: 10.2307/3242721

- Kuwahara Y (1986) The Metzgeriaceae of the neotropics. *Bryophytorum Bibliotheca* 28: 1–254.
- Kuwahara Y (1987) Two new species of *Metzgeria* from New Zealand, with a key to the New Zealand species of the family Metzgeriaceae. *Memoirs of the New York Botanical Garden* 45: 561–568.
- Labillardière JJH (1806) *Novae Hollandiae plantarum specimen, tomus secundus*. Dominae Huzard, Paris, 130 pp.
- Lacouture C (1905) *Hépatiques de la France*. Paul Klincksieck, Paris, 58 pp.
- Lai M-J, Zhu R-L, Chantanaorrapint S (2008) Liverworts and hornworts of Thailand: an updated checklist and bryofloristic accounts. *Annales Botanici Fennici* 45 (5): 321–341.
- Lamarck JB (1789) *Encyclopédie méthodique, botanique, tome 3 (1)*. Panckoucke, Paris, 1–360. doi: 10.5962/bhl.title.824
- Lamarck JB, Poiret JLM (1804) *Encyclopédie méthodique, botanique. Tome sixième, part 1*. H. Agasse, Paris, 384 pp. doi: 10.5962/bhl.title.824
- Lamothe A (1919) *Recherches anatomiques et taxinomiques sur le gamétophyte des Marchantiales*. Thèses de la Faculté des sciences de l'Université de Lyon, Lyon, 1–181.
- Lange J (1871) *Floræ danicæ iconum fasciculus vol. 16 heft 48 (Tab. MMDCCCXXI-MMDCCCCLXXX)*. København, 1–26.
- Larraín J, Carter B, Shaw B, Hentschel J, Strozier LS, Furuki T, Heinrichs J, Crandall-Stotler B, Engel J, von Konrat M (2015) The resurrection of *Neohattoria* Kamim. (Jubulaceae, Marchantiophyta): a six decade systematic conflict resolved through a molecular perspective. *PhytoKeys* 50: 101–122. doi: 10.3897/phytokeys.50.4940
- Lawrence GHM, Buchheim AFG, Daniels GS, Dolezal H (1968) *Botanico Periodicum Huntianum*. Hunt Institute for Botanical Documentation, Pittsburgh, 1063 pp.
- Lee GE (2013) A systematic revision of the genus *Lejeunea* Lib. (Marchantiophyta: Lejeuneaceae) in Malaysia. *Cryptogamie, Bryologie* 34 (4): 381–484. doi: 10.7872/cryb.v34.iss4.2013.381
- Lee GE, Gradstein SR (2013) Distribution and habitat of the Malaysian species of *Lejeunea* (Marchantiophyta: Lejeuneaceae), with description of *Lejeunea tamaspocsii* sp. nov. *Polish Botanical Journal* 58 (1): 59–69. doi: 10.2478/pbj-2013-0007
- Lee GE, Pócs T, Damanhuri A, Latiff A (2010) *Lejeunea gradsteinii* (Lejeuneaceae), a new liverwort species from Mt. Kinabalu, Sabah. *Acta Biologica Plantarum Agriensis* 1: 29–36.
- Lehmann JGC (1829) *Hepaticarum capensium a C.F. Linnaea* 4: 357–371.
- Lehmann JGC (1831) *Novarum et minus cognitarum stirpium pugillus tertius*. Meissner, Hamburg, 58 pp. doi: 10.5962/bhl.title.45011
- Lehmann JGC (1832) *Novarum et minus cognitarum stirpium pugillus quartus*. Meissner, Hamburg, 64 pp. doi: 10.5962/bhl.title.45011
- Lehmann JGC (1833) *Novarum et minus cognitarum stirpium pugillus quintus*. Meissner, Hamburg, 28 pp. doi: 10.5962/bhl.title.45011
- Lehmann JGC (1834) *Novarum et minus cognitarum stirpium pugillus sextus*. Meissner, Hamburg, 72 pp. doi: 10.5962/bhl.title.45011
- Lehmann JGC (1835) *Cel. Endlicher. Linnaea* 9 (4): 421–427.

- Lehmann JGC (1838) *Novarum et minus cognitarum stirpium pugillus septimus*. Meissner, Hamburg, 41 pp. doi: 10.5962/bhl.title.45011
- Lehmann JGC (1844) *Novarum et minus cognitarum stirpium pugillus octavus*. Meissner, Hamburg, 56 pp. doi: 10.5962/bhl.title.45011
- Lehmann JGC (1857) *Novarum et minus cognitarum stirpium pugillus decimus*. Meissner, Hamburg, 34 pp. doi: 10.5962/bhl.title.45011
- Leitgeb H (1876) Ueber *Zoopsis*. Mitteilungen des Naturwissenschaftlichen Vereines für Steiermark 13: 21–28.
- León Y, Pócs T, Rico RR (1998) Registros para la brioflora de Los Andes Venezolanos, I. Cryptogamie: Bryologie, Lichénologie 19 (1): 1–25.
- Levier E (1894) *Tessellina pyramidata* e *Riccia macrocarpa* (in Adunza della sede di Firenze 11 Marzo 1894). *Bullettino della Società Botanica Italiana* 1894: 114–115.
- Levier E (1902) *Riccia crozalsii* Lev. nov. spec. *Revue Bryologique* 29 (4): 73–76.
- Levier E (1906) Muscinee raccolte nello Schen-Si (Cina) dal Rev. Guisepe Giraldi (continuazione e fine). *Nuovo Giornale Botanico Italiano* (n.ser.) 13 (4): 347–356.
- Lewington RJ, Beveridge P, Renner MAM (2013) *Lejeunea hodgsoniana*, a newly described, long recognised *Lejeunea* (Jungermanniopsida, Lejeuneaceae) from lowland coastal forest habitats in New Zealand. *PhytoKeys* 29: 1–15. doi: 10.3897/phytokeys.29.5376
- Li X-J (1985) *Bryoflora of Xizang*. Science Press, Beijing, 581 pp.
- Li J, Zhang L, Zhou L (2011) Phylogenetic position of the genus *Hattorioceros* (Anthocerotophyta). *Taxon* 60 (6): 1633–1636.
- Libert M-A (1820) Sur un genre nouveau d'hépatiques, *Lejeunia*. *Annales générales des sciences physiques* 6: 372–374.
- Lightfoot J (1777) *Flora scotica*, vol. 2. B. White, London, 531–1151.
- Limpricht KG (1876) *Schlesische Lebermoose*. *Hedwigia* 15 (2): 17–19.
- Limpricht KG (1879) *Neue und kritische Lebermoose*. *Jahresbericht der Schlesischen Gesellschaft für Vaterländische Cultur* 57: 311–317.
- Limpricht KG (1881) Ueber *Gymnomitrium adustum* N. v. E. *Flora* 64 (5): 71–76.
- Limpricht KG (1884) Über einige neue Arten und Formen bei den Laub- und Lebermoosen. *Jahresbericht der Schlesischen Gesellschaft für Vaterländische Cultur* 61: 204–225.
- Lin S-H, Chen Y-Y (1997) A taxonomic study of Frullaniaceae from Taiwan. *Tunghai Journal* 38: 79–125.
- Lin S-H, Yang C-S (1992) Bryophytes of Chaishan, Taiwan. *Yushania* 9: 1–12.
- Lin P-J, Piippo S, Koponen TJ, Wu P-C (1992) Bryophyte flora of Jianfengling Mts., Hainan Island, China. *Bryobrothera* 1: 195–214.
- Lindberg SO (1866) Förteckning öfver mossor, insamlade under de svenska expeditionerna till Spitsbergen 1858 och 1861. *Öfversigt af Kongl. Vetenskaps-Akademiens Förhandlingar* 23 (10): 535–561.
- Lindberg SO (1868a) En liten profbit på namnförbistring. *Notiser ur Sällskapet pro Fauna et Flora Fennica Förhandlingar* 9: 3–18.
- Lindberg SO (1868b) Musci novi scandinavici. *Notiser ur Sällskapet pro Fauna et Flora Fennica Förhandlingar* 9: 253–299.

- Lindberg SO (1870) Nya mossor. Öfersigt af Finska Vetenskaps-Societetens Förhandlingar 12 (2): 70–84.
- Lindberg SO (1871) Revisio critica iconum. Societatis litterariae fennicae, Helsinki, 1–118.
- Lindberg SO (1872a) On *Zoopsis* H.f. & T. Journal of the Linnean Society. Botany 13 (67): 188–203. doi: 10.1111/j.1095-8339.1872.tb02401.x
- Lindberg SO (1872b) Contributio ad floram cryptogamam Asiae boreali-orientalis. Acta Societatis Scientiarum Fennicae 10: 221–280.
- Lindberg SO (1873a) Sällskapet pro Fauna & Flora Fennica sammanträde 6 dennes. Morgonbladet (Helsinki) 1873 (286, 9 Dec): 1–2.
- Lindberg SO (1873b) Sällskapet pro Fauna et Flora Fennicas sammanträde den 6 december. Helsingfors Dagblad 1873 (353, 28 Dec): 2.
- Lindberg SO (1873c) Referat från Sällskapet pro Fauna et Flora Fennicas möte 4 Okt. 1873. Helsingfors Dagblad 1873 (273, 7 Oct): 2–3.
- Lindberg SO (1874a) Manipulus muscorum secundus. Notiser ur Sällskapets pro Fauna et Flora Fennica Förhandlingar 13: 351–417.
- Lindberg SO (1874b) Sällskapet pro Fauna et Flora Fennicas sammanträde den 7 februari. Helsingfors Dagblad 1874 (45, 16 Feb): 2.
- Lindberg SO (1875) Hepaticae in Hibernia mense Julii 1873 lectae. Acta Societatis Scientiarum Fennicae 10: 465–559.
- Lindberg SO (1876a) Sällskapets pro Fauna et Flora fennica sammanträde den 4 november 1876. Helsingfors Dagblad 1876 (323, 26 Nov.): 2.
- Lindberg SO (1876b) Meddelanden från Sällskapets förhandlingar I. Meddelanden af Societas pro Fauna et Flora Fennica 1: 91–119.
- Lindberg SO (1876c) Sällskapet pro Fauna & Flora Fennica sammanträde 2 dennes. Morgonbladet (Helsinki) 1876 (287, 10 Dec.): 1.
- Lindberg SO (1877a) Sällskapets pro Fauna et Flora fennica sammanträde den 3 dennes. Morgonbladet (Helsinki) 1877 (30, 6 Feb): 2.
- Lindberg SO (1877b) Monographia *Metzgeriae*. Acta Societatis pro Fauna et Flora Fennica 1 (2): 1–49.
- Lindberg SO (1877c) Hepaticologiens utveckling från äldsta tider till och med Linné. J.C. Frenckell, Helsinki, 51 pp.
- Lindberg SO (1877d) *Riccia bicarinata* n. sp. Lindb. Revue Bryologique 4 (3): 41–42.
- Lindberg SO (1878) Sällskapet pro Fauna et Flora Fennicas sammanträde den 9 november. Helsingfors Dagblad 1878 (315, 18 Nov.): 2–3.
- Lindberg SO (1879) Musci Scandinavici. Jessae Edquist, Uppsala, 50 pp.
- Lindberg SO (1880a) Distinctio *Scapaniae carinthiacae* e *Sc. apiculata*. Revue Bryologique 7 (4): 77–78.
- Lindberg SO (1880b) Sällskapet pro Fauna et Flora Fennicas sammanträde den 6 november. Helsingfors Dagblad 1880 (311, 15 Nov.): 2–3.
- Lindberg SO (1882) Monographia praecursoria *Peltolepidi*, *Sauteriae* et *Cleveae*. Acta Societatis pro Fauna et Flora Fennica 2 (3): 1–15.
- Lindberg SO (1884) *Sandea* et *Myriorrhynchus*. Acta Societatis pro Fauna et Flora Fennica 2 (5): 1–9.

- Lindberg SO (1886) Sur la morphologie des mousses (suite). *Revue Bryologique* 13 (6): 100–109.
- Lindberg SO (1887a) Bidrag till nordens mossflora. I. J. Simelii arfvingar, Helsingfors, 63–77.
- Lindberg SO (1887b) Hepaticae novae lusitanicae. *Revue Bryologique* 14 (2): 19–21.
- Lindberg SO, Arnell HW (1889) Musci asiae borealis. Erster Theil: Lebermoose. Kongliga Svenska Vetenskaps-Akademiens Handlingar (n.ser.) 23 (5): 1–69.
- Lindberg SO, Lackström EF (1874) Hepaticae Scandinavicae exsiccata quarum specimina, fasc. 1. Helsinki, no. 1–25.
- Lindenberg JBW (1829) Synopsis hepaticarum europaearum. Eduard Weberum, Bonnae, 1–133.
- Lindenberg JBW (1836) Monographie der Riccieen. *Nova Acta Physico-Medica Academiae Caesareae Leopoldino-Carolinae Naturae Curiosorum* 18 (1): 361–504.
- Lindenberg JBW (1839) Species hepaticarum, fasc. 1. Henry & Cohen, Bonn, 1–36.
- Lindenberg JBW (1840) Species hepaticarum, fasc. 2–4. Henry & Cohen, Bonn, 37–120.
- Lindenberg JBW (1843) Species hepaticarum, fasc. 5. Henry & Cohen, Bonn, 121–164.
- Lindenberg JBW (1844) Monographia hepaticarum generis *Plagiochilae*. Henry & Cohen, Bonn, i–xxvix.
- Lindenberg JBW, Gottsche CM (1851a) Plantae Kegelianae. *Linnaea* 24 (6): 625–639.
- Lindenberg JBW, Gottsche CM (1851b) Species hepaticarum, fasc. 8–11. Henry & Cohen, Bonn, 1–118.
- Link HF (1823) Neuigkeiten. *Flora* 6 (2): 27–32.
- Linnaeus C (1753) *Species plantarum*, ed. 1. Laurentii Salvii, Holmiae [Stockholm], 1200 pp.
- Linnaeus C (1759) *Systema naturae*. Tomus II. Editio decima, reformata. Laurentii Salvii, Holmiae [Stockholm], 825–1384.
- Linnaeus C (1763) *Species plantarum*, tomus II, editio secunda. Laurentii Salvii, Holmiae [Stockholm], 785–1648.
- Loeske L (1903) Moosflora des Harzes. Bornträger, Leipzig, 350 pp.
- Loeske L (1905) Bryologisches vom Harze und aus anderen Gebieten. *Verhandlungen des Botanischen Vereins der Provinz Brandenburg* 47: 317–344.
- Loeske L (1908) Bryologische Beobachtungen aus der Algäuer Alpen von Loeske und Osterwald. *Verhandlungen des Botanischen Vereins der Provinz Brandenburg* 49 (1): 30–65.
- Loeske L (1909) Zur Moosflora der Zillertaler Alpen. *Hedwigia* 49 (1/2): 1–53.
- Loeske L (1928) *Fossombronina fleischeri* Osterwald. *Verhandlungen des Botanischen Vereins der Provinz Brandenburg* 70: 125–127.
- Loitlesberger K (1894) Hepaticae. In: Szyszylowicz I (Ed.) *Diagnoses plantarum novarum a cl. d. Const. Jelski in Peruvia lectarum, pars prima*. Sumptibus Academiae, Cracoviae, 18–25.
- Long DG (1999a) Studies on the genus *Asterella*. IV. *Asterella grollei* sp. nov., a new species from eastern Asia related to the American *A. palmeri*. *Bryologist* 102 (2): 169–178. doi: 10.2307/3244357
- Long DG (1999b) Validation of the combination *Asterella drummondii*. *Journal of Bryology* 21 (1): 76. doi: 10.1179/jbr.1999.21.1.76
- Long DG (2001) Studies on the genus *Asterella* (Aytoniaceae). V. Miscellaneous notes on Asiatic *Asterella*. *Lindbergia* 26 (1): 43–45.

- Long DG (2005) Studies on the genus *Asterella* (Aytoniaceae) VI. Infrageneric classification in *Asterella*. *Journal of the Hattori Botanical Laboratory* 97: 249–261.
- Long DG (2006) Revision of the genus *Asterella* P. Beauv. in Eurasia. *Bryophytorum Bibliotheca* 63: 1–299.
- Long DG, Grolle R (1990) Hepaticae of Bhutan II. *Journal of the Hattori Botanical Laboratory* 68: 381–440.
- Long DG, Grolle R (1994) Studies on the genus *Asterella* P. Beauv. II. *Asterella limbata*, a new species from Sumatra and Sabah. *Journal of Bryology* 18 (2): 287–295. doi: 10.1179/jbr.1994.18.2.287
- Long DG, Rubasinghe SCK (2014) Liverworts and hornworts of Sri Lanka: a revised checklist. *Ceylon Journal of Science. Biological Sciences* 43 (1): 1–36. doi: 10.4038/cjsbs.v43i1.7280
- Long DG, Vána J (2007) The genus *Gottschelia* Grolle (Jungermanniopsida, Lophoziaceae) in China, with a description of *G. grollei*, sp. nov. *Journal of Bryology* 29 (3): 165–168. doi: 10.1179/174328207X227410
- Long DG, Söderström L, Hagborg A, von Konrat M (2014) Notes on Early Land Plants Today. 56. Validation of *Asterella* sect. *Wallichianae* (Aytoniaceae, Marchantiophyta). *Phytotaxa* 173 (1): 87. doi: 10.11646/phytotaxa.173.1.8
- Longton RE (1992) The role of bryophytes and lichens in terrestrial ecosystems. In: Bates JW, Farmer AM (Eds) *Bryophytes and lichens in a changing environment*. Clarendon Press, Oxford, 32–76.
- Lorbeer G (1934) Die Zytologie der Lebermoose mit besonderer Berücksichtigung allgemeiner Chromosomenfragen. I. Teil. *Jahrbücher für Wissenschaftliche Botanik* 80: 567–817.
- Lou J-S (1987) Three new species of *Porella* from Mountain Hengduan, China. *Acta Phytotaxonomica Sinica* 25 (6): 482–485.
- Lou J-S, Wu P-C (1980) A preliminary report on the new bryophytes of Xizang (Tibet). *Acta Phytotaxonomica Sinica* 18 (1): 119–125.
- Lou J-S, Wang M-Z (1983) [The mountain Hengduan, the distributioned centre for east-asiatic Porellaceae (Hepaticae)]. In: Sun HL (Ed.) *Qing Zang gao yuan yan jiu Heng Duanshan kaocha zhuan ji* [The collective papers of study on Qing-Zang Plateau and Heng-Duan Mt. exploration 1]. Yunnan People's Publishing House, Kunming, 270–279.
- Loureiro J (1790) *Flora cochinchinensis*, tomus II. Academicis, Ulyssipone [Lisboa], 357–745.
- Ludwig CG (1760) *Definitiones generum plantarum*, ed. 3. Joh. Frideric. Gleditschii, Leipzig, 516 pp.
- Lughadha EN (2004) Towards a working list of all known plant species. *Philosophical Transactions of the Royal Society of London. Series B* 359 (1444): 681–687. doi: 10.1098/rstb.2003.1446
- Lye KA, Pócs T (1997) New records to the hepatic flora of Uganda. *Lidia* 4 (1): 13–36.
- MacGregor WM (1899) *Flora of British New Guinea*. *Bulletin of Miscellaneous Information, Royal Gardens, Kew* 1899 (151/152): 95–126. doi: 10.2307/4111436
- Macvicar SM (1911) *Fossombronia echinata* nov. sp. *Revue Bryologique* 38 (4): 73–76.
- Macvicar SM (1926) *The student's handbook of British hepatics*, ed. 2. Wheldon & Wesley, London, 464 pp.

- Mägdefrau K (1983) The bryophyte vegetation of the forests and páramos of Venezuela and Colombia. *Nova Hedwigia* 38: 1–63.
- Mahabale TS (1941) A long-lost liverwort from South India: *Aspiromitus*, a rare member of the anthocerotes. *Current Science* 10 (12): 530–533.
- Maire R (1933) Études sur flore et végétation du Sahara central. *Mémoires de la Société d'Histoire Naturelle de l'Afrique du Nord* 3: 1–272.
- Maire R, Weiler M (1939) Contributions à l'étude de la flore de Libye. *Bulletin de la Société d'Histoire Naturelle de l'Afrique du Nord* 30 (5): 255–314.
- Malombe I (2009) Studies on African *Cheilolejeunea* (Lejeuneaceae) I: New species and new combinations. *Acta Botanica Hungarica* 51 (3/4): 315–328. doi: 10.1556/ABot.51.2009.3-4.8
- Malombe I, Fischer E, Pócs T (2010) *Cheilolejeunea ulugurica* (Lejeuneaceae, Marchantiophyta), a new species from Tanzania. *Acta Biologica Plantarum Agriensis* 1: 23–28.
- Mamontov YS, Vilnet AA (2013) *Anastrophyllum ellipticum* Inoue (Jungermanniales, Marchantiophyta), a new species for Russian liverwort flora [*Anastrophyllum ellipticum* Inoue (Jungermanniales, Marchantiophyta) – novyj vid dlâ flory pečenočnikov Rossii]. *Arctoa* 22: 151–158. doi: 10.15298/arctoa.22.24
- Mamontov YS, Konstantinova NA, Vilnet AA, Bakalin VA (2015) On the phylogeny and taxonomy of Pallaviciniales (Marchantiophyta), with overview of Russian species. *Arctoa* 24 (1): 98–123. doi: <http://dx.doi.org/10.15298/arctoa24.12>
- Manju CN, Rajesh KP, Madhusoodanan PV (2011) *Chiloscyphus chinmarensis* (Lophocoleaceae: Marchantiophyta): A new species from the Western Ghats of India. *Acta Botanica Hungarica* 53 (1/2): 151–157. doi: 10.1556/ABot.53.2011.1-2.14
- Martelli M (1889) Una nuova specie di *Riccia*. *Nuovo Giornale Botanico Italiano* 21 (2): 290–292.
- Martin W (1950) The bryophytes of Stewart Island – part II. *Transactions and Proceedings of the Royal Society of New Zealand* 78 (4): 485–501.
- Martius CFP (1817) *Flora cryptogamica erlangensis. J.L.Schrag, Norinbergae*, 508 pp.
- Massalongo C (1879) *Hepaticologia veneta, fasc. 1. P. Prosperini, Padova*, 1–68.
- Massalongo C (1881) *Due species novae e genere Lejeunia, quas circa Buenos-Ayres legit C. Spegazzini. Nuovo Giornale Botanico Italiano* 13 (2): 122–124.
- Massalongo C (1885) *Epatiche raccolte alla Tierra del Fuoco. Nuovo Giornale Botanico Italiano* 17 (3): 201–277.
- Massalongo C (1889) *Nuova specie di Lejeunea scoperta dal Dott. C. Rossetti in Toscana. Nuovo Giornale Botanico Italiano* 21 (3): 485–487.
- Massalongo C (1897) *Hepaticae in provincia Schen-si. G. Franchini, Verona*, 3–63.
- Massalongo C (1898) *Due nuovi generi di Epatiche. Nuovo Giornale Botanico Italiano (n.ser.)* 5 (2): 255–260.
- Massalongo C (1903) *Le epatiche dell'erbario crittogamico italiano. G. Bresciani, Ferrara*, 20 pp.
- Massalongo C (1904) *Intorno alla Radula Visianica sp. nov. Annali di Botanica. Roma* 1 (4): 297–300.

- Massalongo C (1906a) Epatiche della Repubblica Argentina raccolte dal Prof. C. Spegazzini. *Atti della Accademia delle Scienze Mediche e Naturali di Ferrara* 80 (3/4): 1–14.
- Massalongo C (1906b) Di una nova specie di *Madotheca* della China. *Bullettino della Società Botanica Italiana* 1906: 141–141.
- Massalongo C (1907) La specie italiane del genere *Cephalozia* Dmrt. emend. *Malpighia* 21 (7/8): 289–339.
- Massalongo C (1913) Nuovi rappresentanti nella Flora Italica del genere *Riccia*. *Bullettino della Società Botanica Italiana* 1913 (2/3): 50–53.
- Massalongo C (1917) Nuova specie del genere *Aneura* D. Mort. *Bullettino della Società Botanica Italiana* 1917 (8/9): 80–82.
- Massalongo C (1928) Revisio critica hepaticarum in Argentina. *Atti del Reale Istituto Veneto di Scienze, Lettere ed Arti* 87 (2): 215–251.
- Massalongo C, Carestia A (1880) Epatiche delle Alpi Pennine. *Nuovo Giornale Botanico Italiano* 12 (4): 306–366.
- Masuzaki H (2011) A nomenclatural change for *Metzgeria kinabaluensis* (Metzgeriaceae, Marchantiophyta). *Hikobia* 16 (1): 59–60.
- Masuzaki H, Tsubota H, Shimamura M, Yamaguchi T, Deguchi H (2010a) A taxonomic revision of the genus *Apometzgeria* (Metzgeriaceae, Marchantiophyta). *Hikobia* 15 (4): 427–452.
- Masuzaki H, Shimamura M, Furuki T, Tsubota H, Yamaguchi T, Majid HMA, Deguchi H (2010b) Systematic position of the enigmatic liverwort *Mizutania* (Mizutaniaceae, Marchantiophyta) inferred from molecular phylogenetic analyses. *Taxon* 59 (2): 448–458.
- McCarthy PM (2003) Catalogue of Australian liverworts and hornworts. *Flora of Australia Supplementary Series* 21: 1–137.
- McCormick FA (1914) A study of *Symphyogyna aspera*. *Botanical Gazette* 58 (5): 401–418. doi: 10.1086/331430
- McGregor RL (1960) A new species of *Riccia* from the Ozarks. *Bryologist* 63 (1): 30–31. doi: 10.2307/3241169
- McNeill J, Barrie FR, Buck WR, Demoulin V, Greuter W, Hawksworth DL, Herendeen PS, Knapp S, Marhold K, Prado J, Prud'homme van Reine WF, Smith GF, Wiersema JH, Turland NJ (2012) International Code of Nomenclature for algae, fungi and plants (Melbourne Code) adopted by the Eighteenth International Botanical Congress Melbourne, Australia, July 2011. *Regnum Vegetabile* 154: 1–240.
- Meagher D (2002) New bryophyte records for Australia. *Australasian Bryological Newsletter* 46: 6.
- Meagher D (2005a) *Bazzania sauropoda* D. Meagher (Marchantiophyta: Lepidoziaceae), a new species from tropical Queensland. *Austrobaileya* 7 (1): 129–133.
- Meagher D (2005b) New and interesting bryophyte records from New South Wales, Queensland and Victoria. *Australasian Bryological Newsletter* 50: 6–9.
- Meagher D (2006) *Bazzania scalaris* sp. nov. (Marchantiophyta: Lepidoziaceae) from Papua New Guinea. *Telopea* 11 (3): 246–251. doi: 10.7751/telopea20065724
- Meagher D (2008) Studies on *Bazzania* 1. Some new and little known species from Australasia. *Nova Hedwigia* 86 (3/4): 477–495. doi: 10.1127/0029-5035/2008/0086-0477

- Meagher D (2010) Studies on *Bazzania* 2. Seven poorly known species from Australia. *Nova Hedwigia* 90 (3/4): 395–411. doi: 10.1127/0029-5035/2010/0090-0395
- Meagher D (2011) Studies on *Bazzania* (Lepidoziaceae, Marchantiophyta) 3. Four new species from Australia. *Nova Hedwigia* 92 (3/4): 487–495. doi: 10.1127/0029-5035/2011/0092-0487
- Meagher D (2012) Studies on *Bazzania* (Marchantiophyta, Lepidoziaceae). 5. *Bazzania lehmanniana* (Lindenb.) Trevis., from Nova Hollandia but South America, not Australia. *Nova Hedwigia* 94 (1/2): 271–274. doi: 10.1127/0029-5035/2012/0094-0271
- Meagher D (2013) Studies on *Bazzania* (Marchantiophyta: Lepidoziaceae) 7. *Bazzania avia* sp. nov. from Tasmania. *Nova Hedwigia* 97 (3/4): 529–532. doi: 10.1127/0029-5035/2013/0133
- Meagher D (2015) Studies on *Bazzania* (Marchantiophyta: Lepidoziaceae) 8. *Bazzania wooroonooran* sp. nov. and seven other rare species from tropical Australia. *Nova Hedwigia* 100 (3/4): 535–552. doi: 10.1127/nova_hedwigia/2015/0247
- Meagher D, Glenny DS (2007) A new species of *Bazzania* (Lepidoziaceae) from New Zealand. *Journal of Bryology* 29 (1): 60–63. doi: 10.1179/174328207X175184
- Meenks JLD (1986) *Riccardia reyesiana*, a new liverwort from Cuba. *Acta Botanica Hungarica* 32 (1/4): 207–208.
- Meenks JLD (1987) Studies on Colombian cryptogams. XXVIII. A guide to the tropical Andean species of *Riccardia* (Hepaticae). *Journal of the Hattori Botanical Laboratory* 62: 161–182.
- Meenks JLD, De Jong C (1985) Light microscope studies on the oil bodies of Andean Aneuraceae (Hepaticae). *Cryptogamie: Bryologie, Lichénologie* 6 (1): 1–24.
- Meijer W (1956) A new species of *Exormotheca* from Ceylon. *Journal of the Hattori Botanical Laboratory* 16: 72–74.
- Meijer W (1957) Notes on some Malaysian species of *Anthoceros* L. (Hepaticae) – II. *Journal of the Hattori Botanical Laboratory* 18: 1–13.
- Meijer W (1958) Notes on species of *Riccia* from the Malaysian region. *Journal of the Hattori Botanical Laboratory* 20: 107–118.
- Meijer W (1959) Notes on species of *Riccardia* from their type localities in western Java. *Journal of the Hattori Botanical Laboratory* 21: 61–78.
- Meijer W (1960) Notes on the species of *Bazzania* (Hepaticae) mainly of Java. *Blumea* 10 (2): 367–384.
- Meissner CF (1848) Hepaticae Javanicae a Zollingero collectae. *Botanische Zeitung*. Berlin 6 (25): 462–463.
- Menzel M (1984) Katalog der Lebermoose von Peru. *Willdenowia* 14: 473–523.
- Mérat FV (1821) Nouvelle flore des environs de Paris (ed. 2), vol. 1 Cryptogamie. Méquignon-Marvis, Paris, 292 pp.
- Mérat FV (1840) Notice sur une hépatique regardée comme l'individu mâle du *Marchantia conica* L. *Annales de l'Agriculture Française* (ser. 4) 2 (7): 1–12.
- Messe V (1981) *Pellia borealis* Lorbeer en Belgique. *Bulletin de la Société Royale de Botanique de Belgique* 114 (1): 3–14.
- Meylan C (1924) Les hépatiques de la Suisse. *Beiträge zur Kryptogamenflora der Schweiz* 6 (4): 1–318.

- Meylan C (1926) Note sur une nouvelle espèce de *Scapania*. Jahresbericht der Naturforschenden Gesellschaft Graubündens (n.f.) 64: 363–366.
- Meylan C (1939) Localités nouvelles pour la flore des muscinées de la Suisse. Bulletin de la Société Vaudoise des Sciences Naturelles 60 (249): 261–276.
- Michaux A (1803) Flora boreali-americana, tomus secundus. Caroli Crapelet, Paris, 340 pp.
- Miller HA (1956) Cryptogams of Kapingamarangi Atoll, Carolina Islands. I. Bryophyta. Bryologist 59 (3): 167–173. doi: 10.2307/3239943
- Miller HA (1960) A preliminary list of Micronesian Bryophytes. Bryologist 63 (2): 116–125. doi: 10.2307/3240888
- Miller HA (1963) Notes on Hawaiian hepaticae. V. Collections from recent Swedish expeditions. Arkiv för Botanik (n.ser.) 5 (2): 489–531.
- Miller HA (1965) A review of *Herberta* in the tropical Pacific and Asia. Journal of the Hattori Botanical Laboratory 28: 299–412.
- Miller HA (1967) Oddments of Hawaiian bryology. Journal of the Hattori Botanical Laboratory 30: 271–276.
- Miller HA (1970) Some circum-pacific Schistochilaceae. Phytologia 20 (5): 315–323.
- Miller HA (1981) Notulae hepaticarum Polynesiae. Phytologia 47 (4): 319–324.
- Miller HA (1986) Pacific bryophytes. 3. An overview of *Telaranea*, Hepatophyta. Journal of Bryology 14 (2): 231–244. doi: 10.1179/jbr.1986.14.2.231
- Miller DH, Miller HA (1994) A new *Mastigophora* (Hepatophyta) from New Guinea. Journal of the Hattori Botanical Laboratory 75: 179–182.
- Miller HA, Bonner CEB, Bischler H (1962) Studies in Lejeuneaceae V. *Microlejeunea* in Pacific Oceania. Nova Hedwigia 4: 551–561.
- Miller HA, Whittier HO, Bonner CEB (1963) Bryoflora of the atolls of Micronesia. Beihefte zur Nova Hedwigia 11: 1–89.
- Miller HA, Bonner CEB, Bischler H (1967) Studies in Lejeuneaceae VIII. *Microlejeunea* in Asia and Australia. Nova Hedwigia 14 (1): 61–67.
- Miller HA, Whittier HO, Whittier BA (1983) Prodrromus florum hepaticarum Polynesiae. Catalogue of hepaticae and anthocerotae. Bryophytorum Bibliotheca 25: 1–423.
- Mitten W (1851) Catalogue of cryptogamic plants collected by Professor W. Jameson in the vicinity of Quito (conclusion). Hooker's Journal of Botany and Kew Gardens Miscellany 3: 351–361.
- Mitten W (1854) Nat. Ord. Cl. Hepaticae, L. In: Hooker JD (Ed.) The botany of the antarctic voyage. II. Flora Novae Zealandiae. Part II. Flowerless plants. Reeve, London, 125–160. doi: 10.5962/bhl.title.16029
- Mitten W (1855) Nat. Ord. Cl. Hepaticae, L. In: Hooker JD (Ed.) The botany of the antarctic voyage. II. Flora Novae Zealandiae. Part II. Flowerless plants. Reeve, London, 161–172. doi: 10.5962/bhl.title.16029
- Mitten W (1860a) On some new species of musci and hepaticae in the herbarium of sir W. J. Hooker, collected in tropical Africa, chiefly by the late Dr. Vogel and Mr. Barger. Transactions of the Linnean Society of London 23 (1): 51–58. doi: 10.1111/j.1096-3642.1860.tb00117.x

- Mitten W (1860b) Hepaticae. In: Hooker JD (Ed.) The Botany of the Antarctic Voyage of H. M. discovery ships Erebus and Terror in the years 1839–43. III. Flora Tasmaniae 2. Reeve, London, 221–241.
- Mitten W (1860c) Hepaticae Indiae Orientalis. Journal of the Proceedings of the Linnean Society. Botany 5 (18): 89–128. doi: 10.1111/j.1095-8312.1860.tb01045.x
- Mitten W (1861) Musci et hepaticae vitiensis. Bonplandia 9 (24): 365–367.
- Mitten W (1862) Musci et Hepaticae vitiensis. Bonplandia 10 (2): 19.
- Mitten W (1863) On the musci and hepaticae from the Cameroons mountain and from the River Niger. Journal of the Proceedings of the Linnean Society. Botany 7 (27): 147–169. doi: 10.1111/j.1095-8312.1863.tb01066h.x
- Mitten W (1864a) On some species of musci and hepaticae, additional to the flora of Japan and the coast of China. Journal of the Linnean Society. Botany 8 (31): 148–158. doi: 10.1111/j.1095-8312.1864.tb01081.x
- Mitten W (1864b) A new genus of hepaticae. Journal of the Proceedings of the Linnean Society. Botany 7 (28): 243–244. doi: 10.1111/j.1095-8312.1864.tb01067e.x
- Mitten W (1864c) The “Bryologia” of the survey of the 48th parallel of latitude. Journal of the Proceedings of the Linnean Society. Botany 8 (29): 12–55. doi: 10.1111/j.1095-8312.1864.tb01071.x
- Mitten W (1867) Hepaticae. In: Hooker JD (Ed.) Handbook of the New Zealand flora, part II. Reeve, London, 497–755.
- Mitten W (1870) Hepaticae. In: Godman F (Ed.) Natural history of the Azores, or Western Islands. John Van Voorst, London, 316–328.
- Mitten W (1871) *Jungermannia* and *Marchantia*. In: Seemann B (Ed.) Flora vitiensis, part 10. Reeve, London, 404–419. doi: 10.5962/bhl.title.455
- Mitten W (1875) Hepaticae. In: Melliss JC (Ed.) St. Helena. Reeve, London, 366–373.
- Mitten W (1876a) The musci and hepaticae collected by H. N. Moseley, M. A., naturalist to H. M. S. “Challenger”. Journal of the Linnean Society. Botany 15 (82): 59–73. doi: 10.1111/j.1095-8339.1876.tb00223.x
- Mitten W (1876b) A list of musci and hepaticae collected in Kerguelen’s Island by the Rev. A. E. Eaton. Journal of the Linnean Society. Botany 15 (84): 193–197. doi: 10.1111/j.1095-8339.1876.tb00238.x
- Mitten W (1877) List of hepaticae collected by the Rev. A. E. Eaton at the Cape of Good Hope. Journal of the Linnean Society. Botany 16 (91): 187–197. doi: 10.1111/j.1095-8339.1877.tb02316a.x
- Mitten W (1879) Hepaticae. Philosophical Transactions of the Royal Society of London 168: 396–401. doi: 10.1098/rstl.1879.0038
- Mitten W (1884a) Tristan da Cunha. Musci et Hepaticae. In: Hemsley W (Ed.) Report on the Scientific Results of the voyage of H. M. S. Challenger. Botany. Vol. 1. Second Part. Her Majesty’s Stationary Office, London, 170–178.
- Mitten W (1884b) Juan Fernández and Masafuera. Musci et hepaticae. In: Hemsley W (Ed.) Report on the Scientific Results of the voyage of H. M. S. Challenger. Botany. Vol. 1. III. part 1. Her Majesty’s Stationary Office, London, 78–89.

- Mitten W (1886a) Some new species of the genus *Metzgeria*. Journal of the Linnean Society. Botany 22 (145): 241–243. doi: 10.1111/j.1095-8339.1886.tb00467.x
- Mitten W (1886b) The mosses and hepaticae collected in Central Africa. Journal of the Linnean Society. Botany 22 (146): 298–329. doi: 10.1111/j.1095-8339.1886.tb00649.x
- Mitten W (1887) Musci. In: Thurn EF (Ed.) The botany of the Roraima expedition of 1884. Transactions of the Linnean Society of London. Botany 2 (13): 249–299.
- Mitten W (1888) Muscineae, hepaticae. In: Balfour IB (Ed.) The botany of Socotra. Transactions of the Royal Society of Edinburgh 31: 1–446.
- Mitten W (1891) An enumeration of all species of musci and hepaticae recorded from Japan. Transactions of the Linnean Society of London. Botany 3 (3): 153–206. doi: 10.1111/j.1095-8339.1891.tb00626.x
- Miyake K (1899) *Makinoa*, a new genus of hepaticae. Botanical Magazine, Tokyo 13 (144): 21–24. doi: 10.15281/jplantres1887.13.144_21
- Mizutani M (1961) A revision of Japanese Lejeuneaceae. Journal of the Hattori Botanical Laboratory 24: 115–302.
- Mizutani M (1963) On some Indian species of the family Lejeuneaceae described by W. Mitten. Journal of the Hattori Botanical Laboratory 26: 171–184.
- Mizutani M (1964a) Studies of little known Asiatic species of hepaticae in the Stephani Herbarium. 1. On some little known southeast Asiatic species of the family Lejeuneaceae. Journal of the Hattori Botanical Laboratory 27: 139–148.
- Mizutani M (1964b) A small collection of New Caledonian hepatics. Journal of the Hattori Botanical Laboratory 27: 131–132.
- Mizutani M (1965) Studies of little known Asiatic species of hepaticae in the Stephani Herbarium. 2. On some little known southeast Asiatic species of the genus *Cololejeunea*. Journal of the Hattori Botanical Laboratory 28: 107–121.
- Mizutani M (1966) Epiphyllous species of Lejeuneaceae from Sabah (North Borneo). Journal of the Hattori Botanical Laboratory 29: 153–170.
- Mizutani M (1967) Studies of the Himalayan species of *Bazzania*. Journal of the Hattori Botanical Laboratory 30: 71–90.
- Mizutani M (1968) Studies of little known Asiatic species of hepaticae in the Stephani Herbarium. 4. *Phaeolejeunea*, a new genus of Lejeuneaceae. Journal of the Hattori Botanical Laboratory 31: 130–134.
- Mizutani M (1969) Lejeuneaceae subfamily Ptychanthoideae from Sabah (North Borneo). Journal of the Hattori Botanical Laboratory 32: 129–139.
- Mizutani M (1970) Lejeuneaceae, subfamilies Lejeuneoideae and Cololejeuneoideae, from Sabah (North Borneo). Journal of the Hattori Botanical Laboratory 33: 225–265.
- Mizutani M (1971a) *Lejeunea* from the Himalayan region. Journal of the Hattori Botanical Laboratory 34: 445–457.
- Mizutani M (1971b) On some Japanese species of *Lejeunea*. Miscellanea Bryologica et Lichenologica 5 (10/12): 177–180.
- Mizutani M (1972a) Studies of little known Asiatic species of hepaticae in the Stephani Herbarium. 8. Some little known species of the subfamily Lejeuneoideae of the Lejeuneaceae. Journal of the Hattori Botanical Laboratory 36: 157–162.

- Mizutani M (1972b) Studies of little known Asiatic species of hepaticae in the Stephani Herbarium. 7. Some little known species of the subfamily Lejeuneoideae of the Lejeuneaceae. *Journal of the Hattori Botanical Laboratory* 35: 399–411.
- Mizutani M (1973) The genus *Harpalejeunea* from Sabah (North Borneo). *Journal of the Hattori Botanical Laboratory* 37: 191–203.
- Mizutani M (1974) Lepidoziaceae, subfamily Lepidozioideae from Sabah (North Borneo). *Journal of the Hattori Botanical Laboratory* 38: 371–385.
- Mizutani M (1975) Epiphyllous species of Lejeuneaceae from the Philippines. *Journal of the Hattori Botanical Laboratory* 39: 255–262.
- Mizutani M (1976a) Lepidoziaceae, subfamily Lepidozioideae from the Philippines. *Journal of the Hattori Botanical Laboratory* 40: 447–451.
- Mizutani M (1976b) Studies of little known Asiatic species of hepaticae in the Stephani Herbarium. 9. Some little known species of the family Lejeuneaceae. *Journal of the Hattori Botanical Laboratory* 40: 441–446.
- Mizutani M (1977) *Lejeunea magohukui* Mizut., sp. nov. *Miscellanea Bryologica et Lichenologica* 7 (7): 132–134.
- Mizutani M (1978) Lejeuneaceae from the Ishigaki and Iriomote Islands of Ryukyu Archipelago. *Journal of the Hattori Botanical Laboratory* 44: 121–136.
- Mizutani M (1979a) Hepatics from eastern Nepal collected by Himalayan Expedition of Chiba University in 1977. *Journal of the Hattori Botanical Laboratory* 46: 311–325.
- Mizutani M (1979b) Notes on the Lejeuneaceae. 2. Some peculiar Asiatic species in the Rijksherbarium, Leiden. *Journal of the Hattori Botanical Laboratory* 46: 357–372.
- Mizutani M (1979c) Hepatics from central Nepal collected by the Kochi Himalaya Expedition, 1976. *Journal of the Hattori Botanical Laboratory* 46: 385–392.
- Mizutani M (1980) On *Cheilolejeunea ontakensis*. *Miscellanea Bryologica et Lichenologica* 8 (7): 146–149.
- Mizutani M (1981) Notes on the Lejeuneaceae. 5. Some Asiatic species of the genus *Ceratolejeunea*. *Journal of the Hattori Botanical Laboratory* 49: 305–318.
- Mizutani M (1982) Notes on the Lejeuneaceae. 6. Japanese species of the genus *Cheilolejeunea*. *Journal of the Hattori Botanical Laboratory* 51: 151–173.
- Mizutani M (1984a) Notes on the Lejeuneaceae. 7. *Calatholejeunea paradoxa*, *C. lamii* (sp. nov.) and *Plagirolejeunea zantenii* (gen. et sp. nov.). *Journal of the Hattori Botanical Laboratory* 56: 331–338.
- Mizutani M (1984b) Notes on the Lejeuneaceae. 8. Japanese species of the subgenus *Taeniolejeunea* of the genus *Cololejeunea*. *Journal of the Hattori Botanical Laboratory* 57: 153–170.
- Mizutani M (1984c) Notes on the Lejeuneaceae. 9. *Cololejeunea lanciloba* and its related species in Japan. *Journal of the Hattori Botanical Laboratory* 57: 427–442.
- Mizutani M (1985) On some hepatic species from Yakushima I., Japan. *Proceedings of the Bryological Society of Japan* 4 (3): 35–36.
- Mizutani M (1986a) Notes on the Lejeuneaceae. 11. *Cololejeunea spinosa* and its related species in Japan. *Journal of the Hattori Botanical Laboratory* 60: 439–450.
- Mizutani M (1986b) Lejeuneaceae from Seram Island, Indonesia. *Journal of the Hattori Botanical Laboratory* 61: 299–308.

- Mizutani M (1986c) Notes on the Lejeuneaceae. 12. *Mastigolejeunea humilis* and its related species from Asia. *Journal of the Hattori Botanical Laboratory* 61: 281–297.
- Mizutani M (1990) Notes on the Lejeuneaceae. 16. *Drepanolejeunea thwaitesiana* and its related species from Asia. *Journal of the Hattori Botanical Laboratory* 68: 367–380.
- Mizutani M (1992) Notes on the Lejeuneaceae. 17. *Lejeunea curviloba* and its related species from Japan. *Journal of the Hattori Botanical Laboratory* 71: 123–132.
- Mizutani M (1993) Notes on the Lejeuneaceae. 18. Japanese species of the genus *Archilejeunea*. *Journal of the Hattori Botanical Laboratory* 73: 175–182.
- Mizutani M (1994) The second species of Japanese *Nowellia*. *Hikobia* 11: 469–470.
- Mizutani M, Chang KC (1986) A preliminary study of Chinese Lepidoziaceae flora. *Journal of the Hattori Botanical Laboratory* 60: 419–437.
- Mizutani M, Hattori S (1957) An etude on the systematics of Japanese *Riccardias*. *Journal of the Hattori Botanical Laboratory* 18: 27–64.
- Montagne JFC (1838) Centurie de plantes cellulaires exotiques nouvelles (suite). *Annales des Sciences Naturelles; Botanique (sér. 2)* 9: 38–57.
- Montagne JFC (1839a) florula boliviensis. In: d'Orbigny A (Ed.) *Voyage dans l'Amérique Méridionale*. Tome Septième. Bertrand, Paris, 1–119.
- Montagne JFC (1839b) Sertum patagonicum. In: d'Orbigny A (Ed.) *Voyage dans l'Amérique méridionale*. Tome septième. Bertrand, Paris, 1–19.
- Montagne JFC (1839c) Cryptogamae brasilienses. *Annales des Sciences Naturelles; Botanique (sér. 2)* 12: 42–55.
- Montagne JFC (1840a) Seconde centurie de plantes cellulaires exotiques nouvelles. Décades VI, VII et VIII. *Annales des Sciences Naturelles; Botanique (sér. 2)* 14: 321–350.
- Montagne JFC (1840b) Plantae cellulares. In: Webb PB, Berthelot S (Eds) *Histoire Naturelle des Îles Canaries*, Tome troisième. Deuxième partie. *Phytographia Canariensis*, section ultima. Béthuen, Paris, 9–160.
- Montagne JFC (1842a) Botanique. Plantes cellulaires. In: de la Sagra RDJ (Ed.) *Histoire Physique, Politique et Naturelle de l'Île de Cuba*. Arthus Bertrand, Paris, 427–492. doi: 10.5962/bhl.title.51128
- Montagne JFC (1842b) Cryptogamae nilgheriensis. *Annales des Sciences Naturelles; Botanique (sér. 2)* 18: 12–23.
- Montagne JFC (1843) Quatrième centurie de plantes cellulaires exotiques nouvelles, décades I–VI. *Annales des Sciences Naturelles; Botanique (sér. 2)* 19: 238–266.
- Montagne JFC (1844a) Diagnoses muscorum quorundam javanicorum. *London Journal of Botany* 3: 632–634.
- Montagne JFC (1844b) Quatrième centurie de plantes cellulaires exotiques nouvelles. Décade VII. *Annales des Sciences Naturelles; Botanique (sér. 2)* 20: 294–306.
- Montagne JFC (1845a) Plantae cellulares quas in insulis philippinensibus. *London Journal of Botany* 4: 3–11.
- Montagne JFC (1845b) Cinquième centurie de plantes cellulaires exotiques nouvelles. Décades VII à X. *Annales des Sciences Naturelles; Botanique (sér. 3)* 4: 346–367.

- Montagne JFC (1845c) Plantes cellulaires. In: Hombron MM, Jacquinot H (Eds) Voyage au Pole Sud et dans l'Océanie sur les corvettes l'Astrolabe et la Zélée. Botanique, vol. 1. Gide & Cie, Paris, 1–349. doi: 10.5962/bhl.title.6485
- Montagne JFC (1846) Botanique, Tome première, Cryptogames cellulaires et vasculaires. In: Gaudichaud C (Ed.) Voyage autour du monde exécuté pendant les années 1836 et 1837 sur la corvette la Bonite commandée par M. Vaillant. Arthus Bertrand, Paris, 1–355.
- Montagne JFC (1848) Sixième centurie de plantes cellulaires exotiques nouvelles. Décades I et II. Annales des Sciences Naturelles; Botanique (sér. 3) 10: 106–136.
- Montagne JFC (1849) Sixième centurie de plantes cellulaires nouvelles, tant indigènes qu'exotiques. Décades III à VI. Annales des Sciences Naturelles; Botanique (sér. 3) 11: 33–66.
- Montagne JFC (1852) Note sur le genre *Riella* et description d'une espèce nouvelle *R. reuteri*. Annales des Sciences Naturelles; Botanique (sér. 3) 18: 11–13.
- Montagne JFC (1855) Cryptogamia guayensis. Annales des Sciences Naturelles; Botanique (sér. 4) 3 (5): 311–329.
- Montagne JFC (1856a) Huitième centurie de plantes cellulaires nouvelles tant indigènes qu'exotiques, décades I à III. Annales des Sciences Naturelles; Botanique (sér. 4) 6: 179–199.
- Montagne JFC (1856b) Sylloge generum specierumque cryptogamarum. Sumptibus J.-B. Baillièrè, Paris, 498 pp.
- Montagne JFC (1856c) Septième centurie de plantes cellulaires nouvelles. Annales des Sciences Naturelles; Botanique (sér. 4) 5: 331–374.
- Montagne JFC (1860) Neuvième centurie de plantes cellulaires nouvelles tant indigènes qu'exotiques, décades I et II. Annales des Sciences Naturelles; Botanique (sér. 4) 14: 167–185.
- Moore D (1877) On irish hepaticae. Proceedings of the Royal Irish Academy (ser. 2) 2: 591–672.
- Morales MI, Dauphin G (1998) A new species of *Cololejeunea* (Lejeuneaceae: Cololejeuneoideae) from Panama. Tropical Bryology 14: 133–136.
- Morales MI, Lücking A (1995) *Aphanolejeunea winkleri* Morales & A. Lücking, a new species of Lejeuneaceae (Hepaticae, Cololejeuneoideae) from Costa Rica. Nova Hedwigia 60 (1/2): 119–124.
- Moris JH (1829) Stirpium sardoarum elenchus, fasc. III. Carali, Taurini, 26 pp.
- Moris JH, De Notaris G (1839) Florula caprariae. Typographia Regia, Torino, 244 pp.
- Moura O, Ilkiu-Borges AL, Reiner-Drehwald ME (2012) A new species of *Lejeunea* Lib. (Lejeuneaceae) from Low Várzea forest in lower Amazon (Pará, Brazil). Nova Hedwigia 95 (1/2): 197–202. doi: 10.1127/0029-5035/2012/0033
- Müller K (1899) Eine neue *Lepidozia*-art. Hedwigia 38 (4): 196–200.
- Müller K (1901a) Vorarbeiten zu einer Monographie der Gattung *Scapania*. Bulletin de l'Herbier Boissier (sér. 2) 1 (6): 593–614.
- Müller K (1901b) Ueber die im Jahre 1900 in Baden gesammelten Lebermoose. Beihefte zum Botanischen Centralblatt 10 (4/5): 213–223.
- Müller K (1902) Neue Bürger der Badischen Lebermoos-Flora. Mitteilungen des Badischen Botanischen Vereins 4 (182/183): 283–288.
- Müller K (1903) Neue und kritische Lebermoose. Bulletin de l'Herbier Boissier (sér. 2) 3 (1): 34–44.

- Müller K (1904) Über die in Baden in den Jahren 1902 und 1903 gesammelten Lebermoose. Beihefte zum Botanischen Centralblatt 17 (2): 211–233.
- Müller K (1905) Monographie der Lebermoosgattung *Scapania* Dum. Nova Acta Academiae Caesareae Leopoldino-Carolinae Germanicae Naturae Curiosorum 83: 1–312.
- Müller K (1907a) Die Lebermoose (Dr. L. Rabenhorst's Kryptogamen-Flora von Deutschland, Oesterreich und der Schweiz, 2 Aufl., 6 Band), 1 Abth., 5 Lieferung. Eduard Kummer, Leipzig, 257–320.
- Müller K (1907b) Die Lebermoose (Dr. L. Rabenhorst's Kryptogamen-Flora von Deutschland, Oesterreich und der Schweiz, 2 Aufl., 6 Band), 1 Abth., 3 Lieferung. Eduard Kummer, Leipzig, 129–192.
- Müller K (1912) Die Lebermoose (Dr. L. Rabenhorst's Kryptogamen-Flora von Deutschland, Oesterreich und der Schweiz, 2 Aufl., 6 Band), 2 Abth., 16 Lieferung. Eduard Kummer, Leipzig, 81–144.
- Müller K (1913a) Die Lebermoose (Dr. L. Rabenhorst's Kryptogamen-Flora von Deutschland, Oesterreich und der Schweiz, 2 Aufl., 6 Band), 2 Abth., 17 Lieferung. Eduard Kummer, Leipzig, 145–208.
- Müller K (1913b) Die Lebermoose (Dr. L. Rabenhorst's Kryptogamen-Flora von Deutschland, Oesterreich und der Schweiz, 2 Aufl., 6 Band), 2 Abth., 18 Lieferung. Eduard Kummer, Leipzig, 209–272.
- Müller K (1915a) Die Lebermoose (Dr. L. Rabenhorst's Kryptogamen-Flora von Deutschland, Oesterreich und der Schweiz, 2 Aufl., 6 Band), 2 Abth., 22 Lieferung. Eduard Kummer, Leipzig, 465–528.
- Müller K (1915b) Die Lebermoose (Dr. L. Rabenhorst's Kryptogamen-Flora von Deutschland, Oesterreich und der Schweiz, 2 Aufl., 6 Band), 2 Abth., 21 Lieferung. Eduard Kummer, Leipzig, 385–464.
- Müller K (1916) Die Lebermoose (Dr. L. Rabenhorst's Kryptogamen-Flora von Deutschland, Oesterreich und der Schweiz, 2 Aufl., 6 Band), 2 Abth., 27 Lieferung. Eduard Kummer, Leipzig, 785–848.
- Müller K (1940) Beiträge zur Systematik der Lebermoose. Hedwigia 79 (1/2): 72–80.
- Müller K (1941) Beiträge zur Systematik der Lebermoose II. Hedwigia 80 (1/2): 90–118.
- Müller K (1942) Revision der europäischen Arten der Lebermoosgattung *Chiloscyphus* auf Grund des Chromosomensatzes und von Kulturen. Berichte der Deutschen Botanischen Gesellschaft 59 (10): 428–436.
- Müller K (1947) Morphologische Untersuchungen zur Aufklärung einiger europäischer Lebermoose. Beiträge zur Kryptogamenflora der Schweiz 10 (2): 1–55.
- Müller K (1951a) Bestimmungs- und Nomenklaturberichtigungen zum Schiffnerischen Exsikkatenwerk Hepaticae Europaeae exsiccatae. Feddes Repertorium Specierum Novarum Regni Vegetabilis 54 (2/3): 207–222. doi: 10.1002/fedr.19510540205
- Müller K (1951b) Neue Lebermoose. Revue Bryologique et Lichénologique 20 (1/2): 176–178.
- Müller K (1953) Hepatikologische Notizen. Revue Bryologique et Lichénologique 22 (3/4): 131–140.
- Müller K (1955) Lebermoose aus Südamerika. Feddes Repertorium Specierum Novarum Regni Vegetabilis 58: 59–74.

- Müller K (1958) Die Lebermoose Europas (Dr. L. Rabenhorst's Kryptogamen-Flora von Deutschland, Österreich und der Schweiz, 3 Aufl., 6 Band), 2 Abth., 9 Lieferung. Akademische Verlagsgesellschaft, Leipzig, 1221–1365.
- Müller F (2007) *Meinungeria mouensis* (Lepidoziaceae), a new genus and species from New Caledonia. *Bryologist* 110 (3): 494–499. doi: 10.1639/0007-2745(2007)110[494:MMLANG]2.0.CO;2
- Müller F (2013) *Pleurozia pocsi* sp. nov. (Pleuroziaceae) from New Caledonia. *Polish Botanical Journal* 58 (1): 49–53. doi: 10.2478/pbj-2013-0005
- Müller F, Pócs T (2007) A contribution to the knowledge of epiphyllous bryophytes of Bioko Island (Equatorial Guinea), including additional remarks on non-epiphyllous species. *Journal of Bryology* 29 (2): 81–94. doi: 10.1179/174328207X186803
- Mutke J, Barthlott W (2005) Patterns of vascular plant diversity at continental to global scales. *Biologische Skrifter* 55: 521–531.
- Nadeaud J (1873) Énumération des plantes indigènes de l'île de Tahiti. F. Savy, Paris, 86 pp.
- Nath V, Singh AP (2006) *Frullania udarii* sp. nov. – A new species from Meghalaya, India. *Current Science* 91 (6): 744–746.
- Na-Thalang O (1980) A revision of the genus *Riccia* (Hepaticae) in Australia. *Brunonia* 3 (1): 61–140. doi: 10.1071/BRU9800061
- Nebel M, Söderström L, Hagborg A, von Konrat MJ (2013) Notes on Early Land Plants Today. 28. Transfers of some taxa to *Lobatiriccardia* (Aneuraceae, Marchantiophyta). *Phytotaxa* 81 (1): 10–11. doi: 10.11646/phytotaxa.81.1.4
- Nees CG (1820) *Horae physicae berolinenses*. Adolphi Marcus, Bonnae [Bonn], 123 pp.
- Nees CG (1830) *Enumeratio plantarum cryptogamicarum Javae et insularum adiacentium*. Fasciculus prior, hepaticas complectens, ab editore illustratas. Grass, Barth & Co., Breslau, 86 pp.
- Nees CG (1831) *Berichtigungen zur Enumeratio plantarum cryptogamicarum Javae*. *Linnaea* 6 (4): 602–623.
- Nees CG (1833a) *Hepaticae Hedw*. In: Martius CFP (Ed.) *Flora brasiliensis*. Sumptibus J. G. Cottae, Stuttgart, 294–390. doi: 10.5962/bhl.title.454
- Nees CG (1833b) *Beiträge zur Naturgeschichte der deutschen Lebermoose (Schluss)*. *Flora* 16 (26): 401–414.
- Nees CG (1833c) *Naturgeschichte der Europäischen Lebermoose*, vol. 1. August Rücker, Berlin, 347 pp.
- Nees CG (1836) *Naturgeschichte der Europäischen Lebermoose*, vol. 2. August Rücker, Berlin, 499 pp.
- Nees CG (1838a) *Naturgeschichte der Europäischen Lebermoose*, vol. 4. Grass, Barth & Co., Breslau, 539 pp.
- Nees CG (1838b) *Naturgeschichte der Europäischen Lebermoose*, vol. 3. Grass, Barth & Co., Breslau, 593 pp.
- Nees CG, Bischoff GW (1830) *Lunularia alpina* und *Corsinia lamellosa*, zwei neue europäische Lebermoose. *Flora* 13 (25): 393–404.
- Nees CG, Montagne JFC (1836) *Jungermanniearum herbarii Montagneani species*. *Annales des Sciences Naturelles; Botanique (sér. 2)* 5: 52–72.

- Nicholson WE (1925) Notes on some New Zealand species of *Frullania*. *Bryologist* 28 (2): 17–19. doi: 10.2307/3238374
- Nicholson WE (1942) Some hepatics from the Hawaiian Islands. *Revue Bryologique et Lichénologique* 13: 142–144.
- Nicholson WE, Herzog T, Verdoorn F (1930) Hepaticae. In: Handel-Mazzetti HM (Ed.) *Symbolae Sinicae*, Part 5. Hepaticae. Springer Verlag, Berlin, 1–60.
- Nordstedt O (1874) Lärda sällskaps sammanträden. *Botaniska Notiser* 1874: 155–157.
- Ohnishi N, Deguchi H (2003) A new species of *Schistochila* (Hepaticae) from East Asia. *Bryologist* 106 (3): 451–453. doi: 10.1639/12
- Okamura S (1911) Neue Beiträge zur Moosflora Japans III. *Botanical Magazine, Tokyo* 25 (293): 159–162. doi: 10.15281/jplantres1887.25.293_159
- Okamura S (1916) Contributiones novae ad floram bryophyton japonicam, pars secunda. *Journal of the College of Science, Imperial University of Tokyo* 38 (4): 1–100.
- O'Neill KP (2000) Role of bryophyte-dominated ecosystems in the global carbon budget. In: Shaw AJ, Goffinet B (Eds) *Bryophyte biology*. Cambridge University Press, Cambridge, 344–368. doi: 10.1017/cbo9781139171304.012
- Onraedt M (1977) Bryophytes des îles mascareno-malgaches et Seychelles. III. Hepaticae: *Bazzania*. *Bulletin du Jardin Botanique National de Belgique* 47 (1/2): 139–144. doi: 10.2307/3667988
- Onraedt M (1978) Bryophytes de Sri Lanka (Ceylon). *Revue Bryologique et Lichénologique* 44 (1): 77–82.
- Onraedt M (1979) Bryophytes de Sri Lanka (Ceylan) III. *Cololejeunea ceylanica* Onr. et *Cololejeunea hinidumae* Onr., espèces nouvelles. *Acta Botanica Academiae Scientiarum Hungaricae* 25 (1/2): 107–111.
- Onraedt M (1982) Une nouvelle espèce de *Taxilejeunea* des îles Galápagos. *Miscellanea Bryologica et Lichenologica* 9 (6): 117–119.
- Onraedt M (1989) Quatre *Cololejeunea* (Hepaticae) nouveaux des Philippines. *Bulletin du Jardin Botanique National de Belgique* 59 (3/4): 433–438. doi: 10.2307/3668357
- Osbeck P (1757) *Dagbok öfwer en Ostindisk resa åren 1750, 1751, 1752*. Lor. Ludv. Grefing, Stockholm, 376 pp.
- Pagán FM (1939a) A preliminary list of the hepaticae of Puerto Rico including Vieques and Mona Island. *Bryologist* 42 (1): 1–12. doi: 10.2307/3239058
- Pagán FM (1939b) A preliminary list of the hepaticae of Puerto Rico including Vieques and Mona Island (continued). *Bryologist* 42 (2): 37–50. doi: 10.2307/3239008
- Pagán FM (1942a) A new species of *Dendroceros* from Puerto Rico. *Bryologist* 45 (4): 111–115. doi: 10.2307/3239434
- Pagán FM (1942b) Catalogue of the hepaticae of Guadeloupe. *Bryologist* 45 (4): 76–110. doi: 10.2307/3239433
- Palisot de Beauvois AMFJ (1805a) *Asterella*. In: Cuvier F (Ed.) *Dictionnaire des sciences naturelles dans lequel on traite méthodiquement des differents êtres de la nature*, fasc. 3. F. G. Levrault, Paris, 257–258.
- Palisot de Beauvois AMFJ (1805b) *Flore d'Oware*, vol. 1 (3). Fain et Compagnie, Paris, 17–82.

- Pandé SK (1960) The Anthocerotales, some aspects of their systematics and morphology. Proceedings of the Indian Science Congress Association 47 (2): 90–104.
- Pandé SK, Misra RN (1943) Studies in Indian hepaticae. II. On epiphyllous liverworts of India and Ceylon (1). Journal of the Indian Botanical Society 22 (2/4): 159–169.
- Pandé SK, Srivastava KP (1955) On a species of *Cephalozia* Dum. from India: *C. herzogiana* Pandé et Srivastava sp. nov. Feddes Repertorium Specierum Novarum Regni Vegetabilis 58: 75–79.
- Pandé SK, Udar R (1957) A species of *Riccia*, *R. aravalliensis* Pandé et Udar sp. nov., from Mt. Abu, Rajasthan, India. Journal of the Indian Botanical Society 36 (3): 248–253.
- Pandé SK, Udar R (1958) Genus *Riccia* in India - II. Species of *Riccia* from South India with description of a new species and notes on the synonyms of some recently described ones. Proceedings of the National Institute of Science of India, part B, Biological Sciences 24 (2): 79–88.
- Pandé SK, Udar R (1959) Genus *Riccia* in India. III. Species of *Riccia* from the East Himalaya Territory with description of a new species, *R. attenuata* Pandé sp. nov. Proceedings of the National Institute of Science of India, part B, Biological Sciences 25 (2): 90–100.
- Pandé SK, Srivastava KP, Ahmad S (1957) Epiphyllous liverworts of India and Ceylon. II. Journal of the Indian Botanical Society 36 (3): 335–347.
- Parihar NS (1962) An annotated revised census of Indian hepatics. University of Allahabad Studies, Botany Section 1961-2: 1–56.
- Paris EG (1906a) Hépatiques de Nouvelle-Calédonie. Revue Bryologique 33 (2): 27–29.
- Paris EG (1906b) Muscinées de l’Afrique occidentale française. Revue Bryologique 33 (3): 38–42.
- Paris EG (1907) Muscinées de l’Asie orientale (6e article). Revue Bryologique 34 (3): 41–49.
- Parolly G, Kürschner H, Schäfer-Verwimp A, Gradstein SR (2004) Cryptogams of the Reserva Biológica San Francisco (Province Zamora-Chinchipe, southern Ecuador). III. Bryophytes – Additions and new species. Cryptogamie, Bryologie 25 (3): 271–289.
- Paton JA (1973) Taxonomic studies in the genus *Fossombronina* Raddi. Journal of Bryology 7 (3): 243–252. doi: 10.1179/jbr.1973.7.3.243
- Paton JA (1974) *Fossombronina fimbriata* sp. nov. Journal of Bryology 8 (1): 1–4. doi: 10.1179/jbr.1974.8.1.1
- Paton JA (1979a) *Anthoceros agrestis*, a new name for *A. punctatus* var. *cavernosus* sensu Prosk. 1958, non (Nees) Gottsche et al. Journal of Bryology 10 (3): 257–261. doi: 10.1179/jbr.1979.10.3.257
- Paton JA (1979b) *Plagiochila britannica*, a new species in the British Isles. Journal of Bryology 10 (3): 245–256. doi: 10.1179/jbr.1979.10.3.245
- Paton JA (1994) *Fossombronina pusilla* (L.) Nees var. *maritima* Paton elevated to the rank of species. Journal of Bryology 18 (2): 366–368. doi: 10.1179/jbr.1994.18.2.366
- Paton AJ (2013) From working list to online flora of all known plants—looking forward with hind-sight. Annals of the Missouri Botanical Garden 99 (2): 206–213. doi: 10.3417/2011115
- Paton JA, Perry AR (1995) *Leiocolea fitzgeraldiae* sp. nov. in Britain and Ireland. Journal of Bryology 18 (3): 469–478. doi: 10.1179/jbr.1995.18.3.469

- Paton JA, Sheahan MC (2006) *Lophocolea brookwoodiana* (Jungermanniales: Geocalycaceae), a new species in Britain. *Journal of Bryology* 28 (3): 163–166. doi: 10.1179/174328206X119952
- Paton AJ, Brummitt N, Govaerts R, Harman K, Hinchcliffe S, Allkin R, Lughadha EN (2008) Towards Target 1 of the Global Strategy for Plant Conservation: A working list of all known plant species—Progress and prospects. *Taxon* 57 (2): 602–611. doi: 10.2307/25066027
- Pätsch R, Hentschel J, Linares-Palomino R, Zhu R-L, Heinrichs J (2010) Diversification and taxonomy of the liverwort *Jubula* Dumort. (Jungermanniopsida: Porellales) inferred from nuclear and chloroplast DNA sequences. *Systematic Botany* 35 (1): 6–12. doi: 10.1600/036364410790862515
- Pearson WH (1886) Hepaticae natalensis. *Forhandlinger i Videnskabs-Selskabet i Kristiania* 1886 (3): 1–20.
- Pearson WH (1887a) *Blepharostoma palmatum* Lindb. *Journal of Botany, British and Foreign* 25: 193–195.
- Pearson WH (1887b) Hepaticae knysnanae. *Forhandlinger i Videnskabs-Selskabet i Kristiania* 1887 (9): 1–16.
- Pearson WH (1890) List of Canadian hepaticae. WM. Foster Brown & Co., Montreal, 28 pp. doi: 10.5962/bhl.title.17936
- Pearson WH (1891) *Frullania* madagascariensis. *Forhandlinger i Videnskabs-Selskabet i Kristiania* 1890 (2): 1–9.
- Pearson WH (1892) *Lejeuneae* madagascariensis. *Forhandlinger i Videnskabs-Selskabet i Kristiania* 1892 (8): 3–9.
- Pearson WH (1893) Hepaticae madagascariensis. *Forhandlinger i Videnskabs-Selskabet i Kristiania* 1892 (14): 1–12.
- Pearson WH (1894) *Frullania microphylla*. *Journal of Botany, British and Foreign* 32: 328–330.
- Pearson WH (1900) The hepaticae of the British Isles, vol. I text (fasc. 6-15). Lovell Reeve & Co. Ltd., London, 97–288.
- Pearson WH (1922a) Notes on a collection of hepaticae from the Belgian Congo (ex herb R. Naveau, Antwerp). *Natuurwetenschappelijk Tijdschrift* 4 (5/6): 118–143.
- Pearson WH (1922b) A systematic account of the plants collected in New Caledonia and Isle of Pines. Part III. Cryptogams (Hepaticae-Fungi). Hepaticae. *Journal of the Linnean Society. Botany* 46 (305): 13–44. doi: 10.1111/j.1095-8339.1922.tb00474.x
- Pearson WH (1923) Notes on a collection of New Zealand hepatics. *University of California Publications in Botany* 10 (4): 307–370.
- Pearson WH (1924a) Hepaticae. In: Setchell WA (Ed.) *American Samoa: Part. 1. Vegetation of Tutuila Island.*, Washington, 131–151.
- Pearson WH (1924b) Notes on a collection of hepaticae from Mount Elgon, East Africa, made by Dr. G. Lindblom in 1920. *Arkiv för Botanik* 19 (5): 1–16.
- Pearson WH (1931a) Notes on a collection of hepaticae made by Mr. Saxby on the West Coast of Africa. *Annales de Cryptogamie Exotique* 4 (2): 61–71.
- Pearson WH (1931b) Notes on a collection of hepaticae from Jamaica. *Annales Bryologici* 4: 95–112.

- Pearson LC (1995) The diversity and evolution of plants. CRC Press, New York, 646 pp.
- Peck CH (1866) List of mosses of the state of New York. Report (Annual) of the Regents of the University of the State of New York on the Condition of the State Cabinet of Natural History 19: 42–70. doi: 10.5962/bhl.title.59550
- Peng T, Zhu R-L (2014) A revision of the genus *Notothylas* (Notothyladaceae, Anthocerotophyta) in China. *Phytotaxa* 156 (3): 156–164. doi: 10.11646/phytotaxa.156.3.6
- Peralta DF, Reiner-Drehwald ME (2013) *Cheilolejeunea laciniata* (Lejeuneaceae, Marchantiophyta), a new species from Southeastern Brazil. *Bryologist* 116 (1): 53–57. doi: 10.1639/0007-2745-116.1.053
- Perold SM (1989a) Spore-wall ornamentation as an aid in identifying the southern African species of *Riccia*. *Journal of the Hattori Botanical Laboratory* 67: 109–201.
- Perold SM (1989b) Studies in the genus *Riccia* (Marchantiales) from southern Africa. 13. A new species, *R. hantamensis*, in section *Pilifer*, and a new record for *R. alatospora*. *Bothalia* 19 (2): 157–160. doi: 10.4102/abc.v19i2.953
- Perold SM (1989c) Studies in the genus *Riccia* (Marchantiales) from southern Africa. 11. *R. montana* and *R. alboporosa*, a further two new white-scaled species of the group ‘Squamatae’. *Bothalia* 19 (1): 9–16. doi: 10.4102/abc.v19i1.934
- Perold SM (1990a) Studies in the genus *Riccia* (Marchantiales) from southern Africa. 16. *R. albomarginata* and *R. simii* sp. nov. *Bothalia* 20 (1): 31–39. doi: 10.4102/abc.v20i1.891
- Perold SM (1990b) Studies in the genus *Riccia* (Marchantiales) from southern Africa. 18. New species in the section *Pilifer* from NW Cape: *R. furfuracea*, *R. vitrea* and *R. namaquensis*. *Bothalia* 20 (2): 175–183. doi: 10.4102/abc.v20i2.912
- Perold SM (1990c) Studies in the genus *Riccia* (Marchantiales) from southern Africa. 19. Two new species: *R. pulveracea*, section *Pilifer* and *R. bicolorata*, section *Riccia*, group ‘Squamatae’. *Bothalia* 20 (2): 185–190. doi: 10.4102/abc.v20i2.913
- Perold SM (1990d) Studies in the genus *Riccia* (Marchantiales) from southern Africa. 21. *R. stricta*, *R. purpurascens* and *R. fluitans*, subgenus *Ricciella*. *Bothalia* 20 (2): 197–206. doi: 10.4102/abc.v20i2.915
- Perold SM (1990e) Studies in the genus *Riccia* (Marchantiales) from southern Africa. 17. Three new species in the section *Pilifer*: *R. elongata*, *R. ampullacea* and *R. trachyglossum*. *Bothalia* 20 (2): 167–174. doi: 10.4102/abc.v20i2.911
- Perold SM (1991a) Studies in the genus *Riccia* (Marchantiales) from southern Africa. 22. *R. rubricollis* now validated, typified and described. *Bothalia* 21 (1): 51–54. doi: 10.4102/abc.v21i1.858
- Perold SM (1991b) Two new species of the liverwort genus *Riccia* L. from tropical Africa: *R. somaliensis* and *R. erubescens*. *Journal of Bryology* 16 (3): 367–377. doi: 10.1179/jbr.1991.16.3.367
- Perold SM (1993) Studies in the Marchantiales (Hepaticae) from Southern Africa. 2. The genus *Athalamia* and *A. spathysii*; the genus *Oxymitra* and *O. cristata*. *Bothalia* 23 (2): 207–214. doi: 10.4102/abc.v23i2.804
- Perold SM (1994) Studies in the Marchantiales (Hepaticae) from southern Africa. 7. The genus *Cryptomitrium* (Aytoniaceae) and *C. oreades* sp. nov. *Bothalia* 24 (2): 149–152. doi: 10.4102/abc.v24i2.764

- Perold SM (1995) A survey of the Ricciaceae of tropical Africa. *Fragmenta Floristica et Geobotanica* 40 (1): 53–91.
- Perold SM (1997a) Studies in the liverwort genus *Fossombronina* (Metzgeriales) from southern Africa. 1. Three new species from Northern Province, Gauteng and Mpumalanga. *Bothalia* 27 (1): 17–27. doi: 10.4102/abc.v27i1.649
- Perold SM (1997b) A new species of the liverwort genus *Riccia* L. from Bioko Island, *R. biokoensis* Perold. *Nova Hedwigia* 64 (1/2): 243–248.
- Perold SM (1998a) *Fossombronina rwandaensis*, a new species from tropical Africa. *Bothalia* 28 (1): 45–49. doi: 10.4102/abc.v28i1.614
- Perold SM (1998b) Studies in the liverwort genus *Fossombronina* (Metzgeriales) from southern Africa. 6. New species from Lesotho, Swaziland and Mpumalanga and new records from Lesotho. *Bothalia* 28 (2): 159–165. doi: 10.4102/abc.v28i2.633
- Perold SM (1998c) Studies in the liverwort genus *Fossombronina* (Metzgeriales) from southern Africa. 5. A new species from Northern and Western Cape. *Bothalia* 28 (1): 1–5. doi: 10.4102/abc.v28i1.606
- Perold SM (1999a) Flora of Southern Africa. Hepatophyta. Part 1: Marchantiopsida. Fascicle 1: Marchantiidae. National Botanical Institute, Pretoria, 252 pp.
- Perold SM (1999b) Studies in the liverwort genus *Fossombronina* (Metzgeriales) from southern Africa. 9. A new species from Mpumalanga and KwaZulu-Natal, with notes on other species. *Bothalia* 29 (1): 77–82. doi: 10.4102/abc.v29i1.573
- Perold SM (1999c) Studies in the liverwort genus *Fossombronina* (Metzgeriales) from southern Africa. 8. *F. elsieae* and *F. spinosa*, two new Western Cape species with spinose spores. *Bothalia* 29 (1): 25–33. doi: 10.4102/abc.v29i1.569
- Perold SM (1999d) Studies in the liverwort genus *Fossombronina* (Metzgeriales) from southern Africa. 10. Three new species from Northern and Western Cape. *Bothalia* 29 (1): 83–93. doi: 10.4102/abc.v29i1.574
- Perold SM (2001a) Studies in the genus *Riccia* (Marchantiales) from southern Africa. 25. A new species in subgenus *Ricciella*, section *Ricciella*. *Bothalia* 31 (1): 151–154. doi: 10.4102/abc.v31i2.513
- Perold SM (2001b) Studies in the liverwort genus *Fossombronina* (Metzgeriales) from southern Africa. 11. *F. zuurbergensis*, a new species from Eastern Cape and new records for the area. *Bothalia* 31 (1): 25–29. doi: 10.4102/abc.v31i1.495
- Perold SM (2001c) Notes on African plants: Fossombroniaceae. *Fossombronina nyikaensis*, a new species from Malawi. *Bothalia* 31 (1): 48–52. doi: 10.4102/abc.v31i1.506
- Perold SM (2003) *Sauteria nyikaensis*, a new liverwort species from Malawi. *Bothalia* 33 (2): 165–171. doi: 10.4102/abc.v33i2.450
- Perold SM (2004) Studies in the genus *Riccia* (Marchantiales) from southern Africa. 26. A new species in section *Pilifer*, *Riccia radiata*, is described. *Bothalia* 34 (1): 23–26. doi: 10.4102/abc.v34i1.402
- Perold SM (2005) *Riccia mamrensis*, a new species from Western Cape, South Africa. *Cryptogamie, Bryologie* 26 (1): 67–72.
- Persson H (1946) Some Alaskan and Yukon bryophytes. *Bryologist* 49 (2): 41–58. doi: 10.2307/3239692

- Persson H (1953) *Hodgsonia* nov. gen. (Hepaticae). Stockholm, 1 pp.
- Persson H (1954) On *Neohodgsonia* H. Perss. the new hepatic genus from new Zealand and Tristan da Cunha. *Botaniska Notiser* 107 (1): 39–44.
- Persson H (1955) Remarks on the *Porella pinnata* group. *Archivum Societatis Zoologicae Botanicae Fennicae* “Vanamo”, suppl. 9: 225–231.
- Persson H, Grolle R (1961) *Roivainenia* Persson, eine neue Gattung der Lophoziaceae. *Nova Hedwigia* 3 (1): 43–46.
- Pfeiffer LKG (1855) *Flora von Niederhessen und Münden, Zweiter Band*. Theodor Fischer, Kassel, 252 pp.
- Pfeiffer T, Frey W, Stech M (2002) A new species of *Treubia* (Treubiaceae, Hepaticophytina) from New Zealand based on molecular evidence. *Studies in austral temperate rain forest bryophytes* 20. *Nova Hedwigia* 75 (1/2): 241–253. doi: 10.1127/0029-5035/2002/0075-0241
- Philibert H (1890) Sur la fructification du *Marsupella revoluta* Dumortier. *Revue Bryologique* 17 (3): 33–34.
- Piippo S (1984a) Bryophyte flora of the Huon Peninsula, Papua New Guinea. III. Haplomitriaceae, Lepicoleaceae, Herbertaceae, Pseudolepicoleaceae, Trichocoleaceae, Schistochilaceae, Balantiopsidaceae, Pleuroziaceae and Porellaceae (Hepaticae). *Annales Botanici Fennici* 21 (1): 21–48.
- Piippo S (1984b) Bryophyte flora of the Huon Peninsula, Papua New Guinea. VI. Lepidoziaceae subfam. Lepidozioideae, Calypogeiaceae, Adelanthaceae, Cephaloziaceae subfam. Cephalozioidae and subfam. Odontoschismatoideae and Jubulaceae (Hepaticae). *Annales Botanici Fennici* 21 (4): 309–335.
- Piippo S (1985a) Bryophyte flora of the Huon Peninsula, Papua New Guinea. XII. Geocalycaceae (Hepaticae). *Acta Botanica Fennica* 131: 129–167.
- Piippo S (1985b) Bryophyte flora of the Huon Peninsula, Papua New Guinea. XIII. *Arachniopsis* and *Kurzia* (Lepidoziaceae subfam. Lepidozioideae, Hepaticae). *Acta Botanica Fennica* 131: 169–179.
- Piippo S (1986a) A monograph of *Lepidolejeunea* and *Luteolejeunea* (Lejeuneaceae: Hepaticae). *Acta Botanica Fennica* 132: 1–69.
- Piippo S (1986b) Bryophytes from Frieda River, East and West Sepik provinces, Papua New Guinea. II. Hepaticae (Haplomitriaceae-Frullaniaceae). *Annales Botanici Fennici* 23 (1): 1–10.
- Piippo S (1987) Hepatics from Papua New Guinea collected by Dr. G. Shea. *Journal of the Hattori Botanical Laboratory* 63: 493–498.
- Piippo S (1988) Bryophyte flora of the Huon Peninsula, Papua New Guinea. XXI. *Lepicolea norrisii* (Lepicoleaceae, Hepaticae). *Annales Botanici Fennici* 25 (1): 55–57.
- Piippo S (1989a) The bryophytes of Sabah (North Borneo) with special reference to the BRYOTROP transect of Mount Kinabalu. III. Geocalycaceae (Hepaticae). *Willdenowia* 18 (2): 513–527.
- Piippo S (1989b) Bryophyte flora of the Huon Peninsula, Papua New Guinea. XXX. Plagiophilaceae (Hepaticae). *Annales Botanici Fennici* 26 (2): 183–236.
- Piippo S (1990) Annotated catalogue of Chinese hepaticae and anthocerotae. *Journal of the Hattori Botanical Laboratory* 68: 1–192.

- Piippo S (1991) Bryophyte flora of the Huon Peninsula, Papua New Guinea. XXXIX. *Fossombronia* (Fossombroniaceae) and *Metzgeria* (Metzgeriaceae). Acta Botanica Fennica 143: 1–22.
- Piippo S (1992) Bryophyte flora of the Huon peninsula, Papua New Guinea. LI. Additions and corrections to the Geocalycaceae (Hepaticae). Annales Botanici Fennici 29 (3): 243–248.
- Piippo S (1993a) Hepatics from the Solomon Islands. 1. Nova Hedwigia 56 (3/4): 355–365.
- Piippo S (1993b) Bryophyte flora of the Huon Peninsula, Papua New Guinea. LIV. Anthocerotophyta. Acta Botanica Fennica 148: 27–51.
- Piippo S (1993c) On the taxonomy and nomenclature of SW Asiatic Geocalycaceae (Hepaticae). Annales Botanici Fennici 30 (3): 195–203.
- Piippo S (1997) Two new *Plagiochila* species (Plagiochilaceae, Hepaticae) from Yunnan, China. Annales Botanici Fennici 34 (4): 281–284.
- Piippo S (1998) Bryophytes from Frieda River, East and West Sepik Provinces, Papua New Guinea. IV. *Chiloscyphus koponenii* sp. nov. (Geocalycaceae). Annales Botanici Fennici 35 (1): 55–57.
- Piippo S (1999) *Mesoceros porcatus*, a new hornwort from Yunnan. Haussknechtia, Beiheft 9: 279–282.
- Piippo S, Tan BC (1992) Novelties for the Philippine hepatic flora. Journal of the Hattori Botanical Laboratory 72: 117–126.
- Piippo S, He X, Juslén A, Tan BC, Murphy DH, Pócs T (2002) Hepatic and hornwort flora of Singapore. Annales Botanici Fennici 39 (2): 101–127.
- Piippo S, Mamontov Y, Potemkin AD (2014) Bryophyte flora of the Huon Peninsula, Papua New Guinea. LXXVI. *Conoscyphus koponenii*, spec. nov. (Hepaticae, Jungermanniaceae, Chandonanthoideae). Acta Bryolichenologica Asiatica 5: 19–24.
- Pitard L, Corbière L (1907) Hépatiques des îles Canaries. Mémoires de la Société Botanique de France 7: 28–44.
- Pitcairn CER, Fowler D, Grace J (1995) Deposition of fixed atmospheric nitrogen and foliar nitrogen content of bryophytes and *Calluna vulgaris* (L.) Hull. Environmental Pollution 88 (2): 193–205. doi: 10.1016/0269-7491(95)91444-P
- Pócs T (1968) The genus *Porella* in Vietnam. Journal of the Hattori Botanical Laboratory 31: 65–93.
- Pócs T (1969) A short survey of the *Bazzania* of North Viet-Nam. Journal of the Hattori Botanical Laboratory 32: 79–94.
- Pócs T (1971) Issledovanie gornoj brioflory provincii Hažhang (DRV). Hepaticae. [An investigation of the mountain bryoflora of the Hashang province (Democratic Republic of Vietnam). Hepaticae]. Botanicheskij Zhurnal. Moscow & Leningrad 56 (5): 670–677.
- Pócs T (1975) New or little-known epiphyllous liverworts I. *Cololejeunea* from tropical Africa. Acta Botanica Academiae Scientiarum Hungaricae 21 (3/4): 353–375.
- Pócs T (1980a) The epiphytic biomass and its effect on the water balance of two rain forest types in the Uluguru Mountains (Tanzania, East Africa). Acta Botanica Academiae Scientiarum Hungaricae 26 (1/2): 143–167.

- Pócs T (1980b) New or little known epiphyllous liverworts. II. Three new *Cololejeunea* from East Africa. *Journal of the Hattori Botanical Laboratory* 48: 305–320.
- Pócs T (1984a) New or little known epiphyllous liverworts. III. The genus *Aphanolejeunea* Evans in Tropical Africa. *Cryptogamie: Bryologie, Lichénologie* 5 (3): 239–267.
- Pócs T (1984b) Synopsis of the African Lepidoziaceae K. Müll. In: Váňa J (Ed.) *Proceedings of the third meeting of the bryologists from Central and East Europe*. Univerzita Karlova, Praha, 107–119.
- Pócs T (1985) East african bryophytes, VII. The hepaticae of the Usambara rain forest project expedition, 1982. *Acta Botanica Hungarica* 31 (1/4): 113–133.
- Pócs T (1988) *Plagiochila rudolfii* sp. nov., from Tanzania, East Africa. *Beihefte zur Nova Hedwigia* 90: 223–233.
- Pócs T (1993) New or little known epiphyllous liverworts. IV. Two new *Cololejeuneoideae* from the Comoro Archipelago. *Journal of the Hattori Botanical Laboratory* 74: 45–58.
- Pócs T (1994a) East African bryophytes, XIII. Bryophytes from the Bale Mountains, SE Ethiopia. 2. Hepaticae. *Fragmenta Floristica et Geobotanica* 39 (1): 221–233.
- Pócs T (1994b) Taxonomic results of the BRYOTROP expedition to Zaïre and Rwanda. 28. Lejeuneaceae, a ramicolous collection. *Tropical Bryology* 9: 131–136.
- Pócs T (1994c) Taxonomic results of the BRYOTROP expedition to Zaïre and Rwanda. 27. Lepidoziaceae. *Tropical Bryology* 9: 123–130.
- Pócs T (1994d) New or little known epiphyllous liverworts. V. *Aphanolejeunea* collected by Barbara M. Thiers in Australia and Papua New Guinea. *Hikobia* 11: 457–462.
- Pócs T (1995) East African bryophytes, XIV. Hepaticae from the Indian Ocean islands. *Fragmenta Floristica et Geobotanica* 40 (1): 251–277.
- Pócs T (1997a) New or little known epiphyllous liverworts. VII. Two new Lejeuneaceae species from the Mascarene Islands. *Cryptogamie: Bryologie, Lichénologie* 18 (3): 195–205.
- Pócs T (1997b) New or little known epiphyllous liverworts, VI. *Papillolejeunea* gen. nov. from Papua New Guinea. *Tropical Bryology* 13: 1–18.
- Pócs T (1999) *Trachylejeunea grolleana*, a new representative of the neotropical subgenus *Hygrolejeuneopsis* in Madagascar. *Haussknechtia, Beiheft* 9: 283–290.
- Pócs T (2001) East African bryophytes, XVI. New taxa of Lejeuneoideae (Lejeuneaceae) collected in Manongarivo Special Reserve, NW Madagascar. *Candollea* 56 (1): 69–78.
- Pócs T (2002a) East African bryophytes, XVII. *Cololejeunea attilana* sp. nov. from Tanzania. In: Salamon-Albert É (Ed.) *Magyar Botanikai Kutatások az Ezredfordulón Tanulmányok Borhidi Attila 70. Születésnapja Tiszteletére*. PTE Növénytani Tanszék, Pécs, 185–192.
- Pócs T (2002b) New or little known epiphyllous liverworts. IX. Two new neotropical *Cololejeunea* species. *Acta Botanica Hungarica* 44 (3/4): 371–382. doi: 10.1556/ABot.44.2002.3-4.13
- Pócs T (2002c) East African bryophytes, XVIII. Two new Lejeuneaceae (Hepaticae) from Aberdare Mountains (Kenya). *Polish Botanical Journal* 47 (1): 11–20.
- Pócs T (2004) New or little known epiphyllous liverworts. XI. *Otolejeunea subana* sp. nov. from Madagascar. *Acta Academiae Paedagogicae Agriensis, Sectio Biologiae* 25: 49–57.
- Pócs T (2006a) East African bryophytes, XXII. Two new species, *Plagiochila artsii* and *Plagiochila hiroshiana* (Plagiochilaceae, Marchantiophyta). *Journal of the Hattori Botanical Laboratory* 100: 333–350.

- Pócs T (2006b) New or little-known epiphyllous liverworts. X. On two new neotropical *Diplasiolejeunea* species. *Bryologist* 109 (3): 408–414. doi: 10.1639/0007-2745(2006)109[408:NOLELX]2.0.CO;2
- Pócs T (2006c) East African bryophytes. XXI. Two new species of *Telaranea*, sect. *Tenuifoliae* and records on *Amazoopsis* (Lepidoziaceae) from the Indian Ocean islands. *Acta Botanica Hungarica* 48 (1/2): 119–137. doi: 10.1556/ABot.48.2006.1-2.14
- Pócs T (2006d) Contributions to the bryoflora of Australia. II. On the Australasian “Tuyamaelloideae” (Lejeuneaceae), with the description of *Austrolejeunea occidentalis*. *Journal of the Hattori Botanical Laboratory* 99: 185–195.
- Pócs T (2007) A sixth species of *Pictolejeunea* (Jungermanniopsida) from Venezuelan Guyana. *Acta Botanica Hungarica* 49 (1/2): 109–119. doi: 10.1556/ABot.49.2007.1-2.12
- Pócs T (2008a) Bryophytes from the Fiji Islands, IV. The genus *Frullania* Raddi (Jungermanniopsida), I., with description of *F. vivipara* Pócs, spec. nov. *Fieldiana: Botany (n.ser.)* 47: 147–158. doi: 10.3158/0015-0746-47.1.147
- Pócs T (2008b) Bryophytes from the Fiji Islands, III. The genus *Phaeolejeunea* Mizut. (Lejeuneaceae), with detailed description of *P. amicum* (Hürl.) Pócs, stat. nov. *Fieldiana: Botany (n.ser.)* 47: 139–145. doi: 10.3158/0015-0746-47.1.139
- Pócs T (2010a) *Myriocoleopsis* in southeast Asia. *Tropical Bryology* 31: 123–125.
- Pócs T (2010b) On some new or less known *Lejeunea* (Lejeuneaceae, Jungermanniopsida) species in tropical Africa. *East African bryophytes, XXVII. Beihefte zur Nova Hedwigia* 138: 99–116.
- Pócs T (2010c) *Bazzania orbani* (Lepidoziaceae), a new species from Madagascar. *East African bryophytes, XXVIII. Acta Biologica Plantarum Agriensis* 1: 15–22.
- Pócs T (2010d) What is *Cladolejeunea* Zwickel? New or little known epiphyllous liverworts. XV. *Acta Biologica Plantarum Agriensis* 1: 53–62.
- Pócs T (2011a) Type studies of some African Lejeuneaceae. *Acta Botanica Hungarica* 53 (1/2): 181–192. doi: 10.1556/ABot.53.2011.1-2.18
- Pócs T (2011b) New or little known epiphyllous liverworts. XIV. The genus *Colura* (Lejeuneaceae) in São Tomé Island, with the description of *Colura thomeensis* sp. nov. *Bryologist* 114 (2): 362–366. doi: 10.1639/0007-2745-114.2.362
- Pócs T (2011c) East African bryophytes XXIX. The *Ceratolejeunea* (Lejeuneaceae) species of the Indian Ocean islands. *Polish Botanical Journal* 56 (2): 131–153.
- Pócs T (2012a) Notes on the representatives of genus *Kurzia* G. Martens (Lepidoziaceae, Jungermanniopsida) in the Colombian Andes. *Acta Biologica Plantarum Agriensis* 2: 101–113.
- Pócs T (2012b) Bryophytes from the Fiji Islands, VI. The genus *Cololejeunea* Raddi (Jungermanniopsida), with the description of seven new species. *Acta Botanica Hungarica* 54 (1/2): 145–188. doi: 10.1556/ABot.54.2012.1-2.16
- Pócs T (2013) The genus *Colura* (Lejeuneaceae) in New Guinea and in the neighboring areas. *Chenia* 11: 12–38.
- Pócs T (2015a) Validation of *Plagiochila fracta* nomen nudum (Jungermanniopsida). *East African bryophytes XXXI. Phytotaxa* 195 (2): 183–187. doi: 10.11646/phytotaxa.195.2.8
- Pócs T (2015b) Contribution to the bryoflora of Australia, V. *Colura streimannii* sp. nov. from Queensland. *Polish Botanical Journal* 60 (1): 7–11. doi: 10.1515/pbj-2015-0006

- Pócs T, Bernecker A (2009) Knowledge of *Aphanolejeunea* (Jungermanniopsida) after 25 years. *Polish Botanical Journal* 54 (1): 1–11.
- Pócs T, Bernecker A (2013) New or little known epiphyllous liverworts, XIX *Cololejeunea yelitzae*, a new neotropical species. *Acta Botanica Hungarica* 55 (3/4): 385–391. doi: 10.1556/ABot.55.2013.3-4.13
- Pócs T, Cairns A (2008) Contributions to the bryoflora of Australia, III. The genus *Jubula* Dumort., with the description of *J. hutchinsiae* Hook. subsp. nov. *australiae* (Jubulaceae, Jungermanniopsida). *Nova Hedwigia* 86 (1/2): 231–236. doi: 10.1127/0029-5035/2008/0086-0231
- Pócs T, Eggers J (1999) New or little known epiphyllous liverworts. VIII. Two new *Papillolejeunea* species from Papua New Guinea. *Bryobrothera* 5: 159–164.
- Pócs T, Eggers J (2007) Bryophytes from the Fiji Islands, II. An account of the genus *Colura*, with a description of *C. vitiensis* sp. nov. *Polish Botanical Journal* 52 (2): 81–92.
- Pócs T, Luke Q (2007) East African bryophytes, XXV. Bryological records from the Chyulu range, Kenya. *Journal of East African Natural History* 96 (1): 27–46. doi: 10.2982/0012-8317(2007)96[27:EABXBR]2.0.CO;2
- Pócs T, Lye KA (1999) New records and additions to the hepatic flora of Uganda 2. *Tropical Bryology* 17: 23–33.
- Pócs T, Ninh T (2005) Contribution to the bryoflora of Vietnam. VI. On the liverwort flora of Vu Quang Nature Reserve. *Acta Botanica Hungarica* 47 (1/2): 151–171. doi: 10.1556/ABot.47.2005.1-2.14
- Pócs T, Piippo S (1999) Bryophyte flora of the Huon Peninsula, Papua New Guinea. LXIV. *Aphanolejeunea* (Lejeuneaceae, Hepaticae). *Acta Botanica Fennica* 165: 85–102.
- Pócs T, Piippo S (2011) Bryophyte flora of the Huon Peninsula, Papua New Guinea. LXXIV. *Cololejeunea* (Lejeuneaceae, Hepaticae). *Acta Bryolichenologica Asiatica* 4: 59–137.
- Pócs T, Schäfer-Verwimp A (2006) East African bryophytes. XXIII. Three new species of *Diplosiolejeunea* (Lejeuneaceae, Jungermanniopsida) from Madagascar. *Cryptogamie, Bryologie* 27 (4): 439–452.
- Pócs T, Schäfer-Verwimp A (2012) *Cololejeunea kuciana* (Lejeuneaceae, Marchantiophyta), another new species from southern Ecuador. *Polish Botanical Journal* 57 (1): 51–53.
- Pócs T, Vána J (2001) A new species of *Amphicephalozia* (Hepaticae) from Madagascar. *Polish Botanical Journal* 46 (2): 145–150.
- Pócs T, Mizutani M, Piippo S (1994) Bryophyte flora of the Huon Peninsula, Papua New Guinea. LXV. Preliminary contributions on Lejeuneaceae (Hepaticae). 1. *Annales Botanici Fennici* 31 (3): 179–190.
- Pócs T, Sass-Gyarmati A, Naikatini A, Tuiwawa M, Braggins JE, Pócs S, von Konrat MJ (2011) New liverwort (Marchantiophyta) records for the Fiji Islands. *Telopea* 13 (3): 455–494.
- Pócs T, Luong T-T, Ho B-C (2013) New or little known epiphyllous liverworts, XVIII. Records from the Bidoup-Núi Bà National Park, Vietnam, with the description of *Drepanolejeunea bidoupensis*, sp. nov. *Cryptogamie, Bryologie* 34 (3): 287–298. doi: 10.7872/cryb.v34.iss3.2013.287
- Pócs T, Bernecker A, Tixier P (2014) Synopsis of the neotropical species of *Cololejeunea* (Spruce) Schiffn. *Acta Botanica Hungarica* 56 (1/2): 185–226. doi: 10.1556/ABot.56.2014.1-2.14

- Pócs T, Zhu R-L, Reiner-Drehwald E, Söderström L, Hagborg A, von Konrat M (2015a) Notes on Early Land Plants Today. 71. New synonyms, new names and new combinations in Lejeuneaceae (Marchantiophyta). *Phytotaxa* 208 (1): 97–102. doi: 10.11646/phytotaxa.208.1.10
- Pócs T, Müller F, Shevock JR (2015b) Additions to the liverwort and hornwort flora of São Tomé and Príncipe II, with *Neurolejeunea*, a genus new to Africa. *Herzogia* 28 (1): 50–69.
- Pócs T, Zhu R-L, Söderström L, Hagborg A, von Konrat M (2015c) Notes on Early Land Plants Today. 67. Notes on Lejeuneaceae subtribus Cololejeuneinae (Marchantiophyta). *Phytotaxa* 202 (1): 63–68. doi: 10.11646/phytotaxa.202.1.9
- Polakowski H (1877) Bryophytas et cormophytas costaricensis anno 1875 lectas. *Journal of Botany, British and Foreign* 15: 225–231.
- Porsild MP (1902) Sur une nouvelle espèce de *Riella* (subg. nov.: *Trabutiella*) de l'Asie centrale. *Botanisk Tidsskrift* 24 (3): 323–327.
- Pôrto KC, Grolle R (1987) *Drepanolejeunea bischleriana* sp. nov. du Brésil. *Cryptogamie: Bryologie, Lichénologie* 8 (4): 301–304.
- Potemkin AD (1992) A new species of *Prasanthus* (Hepaticae, Gymnomitriaceae) from the Yamal Peninsula, West Siberian arctic. *Annales Botanici Fennici* 29 (4): 319–323.
- Potemkin AD (1993) The hepaticae of the Yamal Peninsula, West Siberian Arctic. *Arctoa* 2: 57–101. doi: 10.15298/arctoa.02.04
- Potemkin AD (1998) On the origin, evolution and classification of the genus *Scapania* (Dum.) Dum. (Hepaticae). *Journal of the Hattori Botanical Laboratory* 85: 33–61.
- Potemkin AD (1999) An analysis of the practical taxonomy of some critical northern species of *Scapania* (Scapaniaceae, Hepaticae). *Bryologist* 102 (1): 32–38. doi: 10.2307/3244456
- Potemkin AD (2000a) An updated list of liverworts of the Severnaya Zemlya Archipelago (East Siberian high arctic) with description of a new species, *Scapania matveyevae*. *Arctoa* 9: 95–100.
- Potemkin AD (2000b) Three new species of *Scapania* (Hepaticae) collected by Dr. David G. Long in Nepal. *Arctoa* 9: 115–122. doi: 10.15298/arctoa.09.12
- Potemkin AD (2000c) Bryophyte flora of Hunan Province, China. 2. *Scapania koponenii* sp. nova (Scapaniaceae, Hepaticae). *Annales Botanici Fennici* 37 (1): 41–44.
- Potemkin AD (2001) Three new species of *Scapania* (Hepaticae) from India and China. *Annales Botanici Fennici* 38 (2): 83–89.
- Potemkin AD (2002) Phylogenetic system and classification of the family Scapaniaceae Mig. emend. Potemkin (Hepaticae). *Annales Botanici Fennici* 39 (4): 309–334.
- Potemkin AD (2005) Pečenočiki i antocerotovyje Rossii: Taksonomičeskij sostav i perspektivy dal'nejših issledovanij [Liverworts and hornworts of Russia: taxonomic composition and prospects of further studies]. In: Afonina OM, Potemkin AD, Czernyadjeva IV (Eds) *Actual Problems in Bryology: Proceedings of the International Meeting Devoted to the 90-th Anniversary of A. L. Abramova* (Saint Petersburg, November 22-25, 2005). , St. Petersburg, 164–171.
- Potemkin AD, Ahti T (2012) On *Riccia marginata* and related species (Ricciaceae, Marchantiophyta) [O *Riccia marginata* i rodstvennyh vidah (Ricciaceae, Marchantiophyta)]. *Novosti Sistematiki Nizših Rastenij* 46: 298–305.
- Potemkin AD, Kazanovsky SG (1993) On the genus *Mylia* S. Gray (Hepaticae, Jungermanniaceae, Mylioideae). *Arctoa* 2: 1–11. doi: 10.15298/arctoa.02.01

- Potemkin AD, Sofronova EV (2009) Pečenočniki i antocerotov'e Rossii, Tom 1 [Liverworts and Hornworts of Russia, Vol. 1]. Russian Academy of Sciences, V. L. Komarov Botanical Institute, St. Petersburg, 368 pp.
- Potemkin AD, Piippo S, Koponen TJ (2004) Bryophyte flora of Hunan Province, China. 4. Diplophyllaceae and Scapaniaceae (Hepaticae). *Annales Botanici Fennici* 41 (6): 415–427.
- Prantl K (1890) Verzeichniss der in diesem Bande erwähnten Pflanzen (Kryptogamen). *Hedwigia* 29: vii–xxix.
- Prantl K (1892) Verzeichniss der in diesem Bande erwähnten Pflanzen (Kryptogamen). *Hedwigia* 31: viii–xxvii.
- Preussing M, Olsson S, Schäfer-Verwimp A, Wickett NJ, Wicke S, Quandt D, Nebel M (2010) New insights in the evolution of the liverwort family Aneuraceae (Metzgeriales, Marchantiophyta), with emphasis on the genus *Lobatirricardia*. *Taxon* 59 (5): 1424–1440.
- Proskauer J (1951a) Studies on Anthocerotales. III. *Bulletin of the Torrey Botanical Club* 78 (4): 331–349. doi: 10.2307/2481996
- Proskauer J (1951b) Notes on hepaticae. II. *Bryologist* 54 (4): 243–266. doi: 10.2307/3240002
- Proskauer J (1955) Notes on hepaticae. III. *Bryologist* 58 (3): 192–200. doi: 10.2307/3239904
- Proskauer J (1958) Nachtrag zur Familie Anthocerotaceae. In: Müller K (Ed.) *Die Lebermoose Europas* (Dr. L. Rabenhorst's Kryptogamen-Flora von Deutschland, Österreich und der Schweiz, 3 Aufl., 6 Band), 2 Abth., 9 Lieferung. Akademische Verlagsgesellschaft, Leipzig, 1303–1319.
- Proskauer J (1960) Studies on Anthocerotales VI. *Phytomorphology* 10: 1–19.
- Proskauer J (1964) *Riccia tuberosa* Taylor = *Anogramma leptophylla* (L.) Link, or the importance of being bryophytic. *Journal of the Indian Botanical Society* 42A: 185–188.
- Qiu YL, Li L, Wang B, Chen Z, Dombrowska O, Lee J, Kent L, Li R, Jobson RW, Hendry TA, Taylor DW, Testa CM, Ambros M (2007) Nonflowering land plant phylogeny inferred from nucleotide sequences of seven chloroplast, mitochondrial, and nuclear genes. *International Journal of Plant Sciences* 168 (5): 691–708. doi: 10.1086/513474
- Qiu YL, von Konrat M, Engel JJ (2013) Rudolf Mathias Schuster. 1921–2012. *Plant Science Bulletin* 59 (4): 165–168.
- Qui Q, Wei Y-M, Cheng X-F, Zhu R-L (2014) Notes on Early Land Plants Today. 57. *Cheilolejeunea boliviensis* and *Cheilolejeunea savesiana*, two new synonyms in *Lejeunea* (Marchantiophyta, Lejeuneaceae). *Phytotaxa* 173 (1): 88–90. doi: 10.11646/phytotaxa.173.1.9
- Rabenhorst GL (1857) *Jungermannia sauteri* De N. *Hedwigia* 1 (20): 121.
- Rabenhorst GL (1859) Hepaticae Europaeae. *Die Lebermoose Europa's unter Mitwirkung mehrerer namhafter Botaniker*, Decades 9–10. Dresden, tab. 81–100.
- Rabenhorst GL (1860) Hepaticae Europaeae. *Die Lebermoose Europa's unter Mitwirkung mehrerer namhafter Botaniker*, Decades 13–14. Dresden, tab. 121–140.
- Rabenhorst GL (1862) Hepaticae Europaeae. *Die Lebermoose Europa's unter Mitwirkung mehrerer namhafter Botaniker*, Decades 21–22. Dresden, tab. 201–220.
- Raddi G (1818a) *Jungermanniografia etrusca*. Modena, 45 pp.
- Raddi G (1818b) *Novarum vel rariorum ex cryptogamia stirpium in agro florentino collectarum*. *Opuscoli Scientifici* 2 (6): 349–361.

- Raddi G (1822) *Crittogame brasiliane*. Società Tipografica, Modena, 33 pp. doi: 10.5962/bhl.title.65673
- Radian SS (1903) Sur le *Bucegia*, nouveau genre d'hépatique à thalle. Bulletin de l'Herbier de l'Institut Botanique de Bucarest 3-4: 3–7.
- Ramaiya M, Johnson MG, Shaw J, Heinrichs J, Hentschel J, von Konrat M, Davison PG, Shaw AJ (2010) Morphologically cryptic biological species within the liverwort *Frullania asagrayana*. American Journal of Botany 97 (10): 1707–1718. doi: 10.3732/ajb.1000171
- Rao DN (1982) Responses of bryophytes to air pollution. In: Smith AJE (Ed.) Bryophyte Ecology. Chapman & Hall, London, 445–471. doi: 10.1007/978-94-009-5891-3_12
- Raoul EFL (1846) *Choix de plantes de la Nouvelle-Zélande*. Fortin, Masson et Cie, Paris, 56 pp.
- Rauh W, Buchloh G (1961) *Riccia atromarginata* Levier var. *jovet-astii* var. nov. Rauh & Buchloh. Revue Bryologique et Lichénologique 30 (1/2): 74–79.
- Rawat KK, Srivastava SC (2005) *Plagiochila meghalayensis* sp. nov. from Meghalaya, India. Geophytology 35 (1/2): 49–53.
- Reeb C, Bardat J (2014) Studies on African *Riccardia* types and related material. Cryptogamie, Bryologie 35 (1): 47–75. doi: 10.7872/cryb.v35.iss1.2014.47
- Reichardt HW (1866) Diagnose der neuen Arten von Lebermoosen, welche die Novara-Expedition mitbrachte. Verhandlungen der Kaiserlich-Königlichen Zoologisch-Botanischen Gesellschaft in Wien 16: 957–960.
- Reimers H (1925) Hepaticae novae chilenses. Repertorium Specierum Novarum Regni Vegetabilis 21 (8/20): 264–265. doi: 10.1002/fedr.19250210817
- Reimers H (1931) Beiträge zur Moosflora Chinas. I. Hedwigia 71 (1/2): 1–77.
- Reimers H (1933) Revision der Lebermoosgattung *Micropterygium*. Hedwigia 73 (3/4): 133–204.
- Reimers H (1936) Nachtrag zur Revision der Lebermoosgattung *Micropterygium*. Hedwigia 76 (3): 165–168.
- Reiner ME (1988) Contribución al conocimiento de las hepáticas del Noreste de la provincia de Buenos Aires (Argentina). Frullaniaceae (Jungermanniales). Boletín de la Sociedad Argentina de Botánica 25 (3/4): 301–325.
- Reiner-Drehwald ME (2000) On *Potamolejeunea* and *Neopotamolejeunea* gen. nov. (Lejeuneaceae, Hepaticae). Nova Hedwigia 71 (3/4): 447–464.
- Reiner-Drehwald ME (2005a) On *Amphilejeunea* and *Cryptogynolejeunea*, two small genera of Lejeuneaceae (Jungermanniopsida), and two common neotropical *Lejeunea* species. Nova Hedwigia 81 (3/4): 395–411. doi: 10.1127/0029-5035/2005/0081-0395
- Reiner-Drehwald ME (2005b) *Taxilejeunea pulverulenta* (Lejeuneaceae, Jungermanniopsida), a poorly known species from the neotropics, is transferred to *Lejeunea*. Cryptogamie, Bryologie 26 (1): 59–65.
- Reiner-Drehwald ME (2006) Type studies on neotropical Lejeuneaceae (Jungermanniopsida). *Cheilolejeunea* and *Lepidolejeunea*. Nova Hedwigia 83 (3/4): 473–482. doi: 10.1127/0029-5035/2006/0083-0473
- Reiner-Drehwald ME (2010) A taxonomic revision of *Lejeunea deplanata* (Lejeuneaceae, Marchantiophyta) from tropical America. Nova Hedwigia 91 (3/4): 519–532. doi: 10.1127/0029-5035/2010/0091-0519

- Reiner-Drehwald ME (2011) Studies on neotropical Lejeuneaceae (Jungermanniopsida). New synonyms and *Ceratolejeunea temnantha* (Spruce) comb. nov. *Cryptogamie, Bryologie* 32 (2): 95–100. doi: 10.7872/cryb.v32.iss1.2011.095
- Reiner-Drehwald ME (2015) *Lejeunea tunquiniensis* (Lejeuneaceae, Marchantiophyta), a new species from a humid montane forest in the Yungas region, Bolivia. *Nova Hedwigia* 100 (3/4): 583–588. doi: 10.1127/nova_hedwigia/2015/0249
- Reiner-Drehwald ME, Goda A (2000) Revision of the genus *Crossotolejeunea* (Lejeuneaceae, Hepaticae). *Journal of the Hattori Botanical Laboratory* 89: 1–54.
- Reiner-Drehwald ME, Gradstein SR (1997) New combinations and synonyms in *Myriocoleopsis* Schiffl. (Lejeuneaceae). *Journal of Bryology* 19 (3): 638–640. doi: 10.1179/jbr.1997.19.3.638
- Reiner-Drehwald ME, Grolle R (2012) Review of the genus *Rectolejeunea* (Lejeuneaceae, Marchantiophyta). *Nova Hedwigia* 95 (3/4): 451–482. doi: 10.1127/0029-5035/2012/0063
- Reiner-Drehwald ME, Mustelier Martínez K (2004) On *Lejeunea multidentata*, a new species from Cuba (Jungermanniopsida: Lejeuneaceae). *Journal of Bryology* 26 (2): 103–106. doi: 10.1179/037366804225021056
- Reiner-Drehwald ME, Cavalcanti Pôrto K (2007) *Lejeunea perpapillosa* (Lejeuneaceae), a new species from north-eastern Brazil. *Nova Hedwigia* 85 (3/4): 541–546. doi: 10.1127/0029-5035/2007/0085-0541
- Reiner-Drehwald ME, Schäfer-Verwimp A (1996) *Drepanolejeunea grollei* (Lejeuneaceae, Hepaticae) a new species from south-eastern Brazil. *Candollea* 51 (2): 475–482.
- Reiner-Drehwald ME, Schäfer-Verwimp A (2008) On *Inflatolejeunea*, *Lejeunea* species with eplicate perianths and *Lejeunea talamancensis* sp. nov. from Costa Rica (Lejeuneaceae). *Nova Hedwigia* 87 (3/4): 387–420. doi: 10.1127/0029-5035/2008/0087-0387
- Reiner-Drehwald ME, Mustelier Martínez K, Gradstein SR (2007) A new species of *Omphalanthus* (Lejeuneaceae) from Cuba. *Journal of Bryology* 29 (2): 95–97. doi: 10.1179/174328207X171881
- Reiner-Drehwald ME, Salazar Allen N, Chung CC (2013) New combinations and synonyms in neotropical Lejeuneaceae (Marchantiophyta), with description of *Lejeunea tamsii*, a new species from Barro Colorado Island, Panama. *Polish Botanical Journal* 58 (2): 419–426. doi: 10.2478/pbj-2013-0041
- Reinwardt CGC, Blume CL, Nees von Esenbeck CG (1824a) Hepaticae iavanicae. *Nova Acta Physico-Medica Academiae Caesareae Leopoldino-Carolinae Naturae Curiosorum* 12 (1): 181–238.
- Reinwardt CGC, Blume CL, Nees von Esenbeck CG (1824b) Hepaticarum iavanicarum, supplementum. *Nova Acta Physico-Medica Academiae Caesareae Leopoldino-Carolinae Naturae Curiosorum* 12 (1): 409–417.
- Renauld F, Cardot J (1891) Contribution à la flore des muscinées des îles austro-africaines et de l'Océan Indien. *Revue Bryologique* 18 (4): 55–60.
- Renauld F, Cardot J (1893) Musci exotici novi vel minus cogniti. V. *Bulletin de la Société Royale de Botanique de Belgique, Mémoires* 32: 101–121.

- Renner MAM (2006) Plants seen and unseen: *Radula pseudoscripta* sp. nov. and *Radula uvifera* (Radulaceae: Jungermanniopsida). *New Zealand Journal of Botany* 44 (3): 337–348. doi: 10.1080/0028825X.2006.9513026
- Renner MAM (2010) Another new species of *Austrolejeunea* (Lejeuneaceae) from New Zealand's subalpine environs. *Bryologist* 113 (4): 781–787. doi: 10.1639/0007-2745-113.4.781
- Renner MAM (2012) Further insight into lobule teeth homology in Lejeuneaceae subf. Lejeuneoideae from *Cheilolejeunea oscilla*, a new species from Australia. *Bryologist* 115 (4): 536–556. doi: 10.1639/0007-2745-115.4.536
- Renner MAM (2013) A new subspecies of *Acrolejeunea arcuata*, and notes on typification, synonymy, and distribution of other Australasian Lejeuneaceae. *Phytotaxa* 83 (1): 39–53. doi: 10.11646/phytotaxa.83.1.2
- Renner MAM (2014) *Radula* subg. *Radula* in Australasia and the Pacific (Jungermanniopsida). *Telopea* 17: 107–167. doi: 10.7751/telopea20147553
- Renner MAM, Brown EA (2008) *Mnioloma* (Calypogeciaceae: Jungermanniopsida) in Australasia: how many species are there? *Fieldiana: Botany (n.ser.)* 47: 159–174. doi: 10.3158/0015-0746-47.1.159
- Renner MAM, de Lange PJ (2009) *Radula multiflora* Gottsche ex Schiffn. – a new record for the Chatham Islands, New Zealand. *Australasian Bryological Newsletter* 57: 12–13.
- Renner MAM, de Lange PJ (2011) Additions to the Lejeuneaceae flora of New Zealand: new species from the Kermadec Islands and range extensions of New Zealand species into the South Pacific. *New Zealand Journal of Botany* 49 (3): 421–433. doi: 10.1080/0028825X.2011.580765
- Renner MAM, Brown EA, Glenny DS (2006) Two new *Zoopsis* species and their relationships to other zoopsids (Jungermanniopsida: Lepidoziaceae). *Journal of Bryology* 28 (4): 331–344. doi: 10.1179/174328206X136278
- Renner MAM, Brown EA, Wardle GM (2009) Evidence for species recognition on the basis of a single specimen: *Nephelolejeunea carcharias* sp. nov. (Lejeuneaceae: Jungermanniopsida). *Systematic Botany* 34 (4): 615–624. doi: 10.1600/036364409790139754
- Renner MAM, Devos N, Shaw AJ (2010a) *Radula splendida* sp. nov. (Radulaceae: Marchantiophyta), a polymorphic species from New Zealand. *Nova Hedwigia* 90 (1/2): 105–122. doi: 10.1127/0029-5035/2010/0090-0105
- Renner MAM, Brown EA, Wardle GM (2010b) The *Lejeunea tumida* species group (Lejeuneaceae: Jungermanniopsida) in New Zealand. *Australian Systematic Botany* 23 (6): 443–462. doi: 10.1071/SB10037
- Renner MAM, Devos N, Patiño J, Brown EA, Orme A, Elgey M, Wilson TC, Gray LJ, von Konrat MJ (2013a) Integrative taxonomy resolves the cryptic and pseudo-cryptic *Radula buccinifera* complex (Porellales, Jungermanniopsida), including two reinstated and five new species. *PhytoKeys* 27: 1–113. doi: 10.3897/phytokeys.27.5523
- Renner MAM, Söderström L, Hagborg A, von Konrat MJ (2013b) Notes on Early Land Plants Today. 29. A new combination in *Radula* (Radulaceae, Marchantiophyta). *Phytotaxa* 81 (1): 12–14. doi: 10.11646/phytotaxa.81.1.5
- Renner MAM, Devos N, Brown EA, von Konrat MJ (2013c) New records, replacements, reinstatements and four new species in the *Radula parvitexta* and *R. ventricosa* species groups (Jungermanniopsida) in Australia: cases of mistaken identity. *Australian Systematic Botany* 26 (4): 298–345. doi: 10.1071/SB13027

- Renner MAM, Pócs T, Söderström L, Hagborg A, von Konrat MJ (2013d) Notes on Early Land Plants Today. 27. Transfer of some taxa from *Stenolejeunea* (Lejeuneaceae, Marchantiophyta). *Phytotaxa* 81 (1): 8–9. doi: 10.11646/phytotaxa.81.1.3
- Renner MAM, Söderström L, Hagborg A, von Konrat M (2014) Notes on Early Land Plants Today. 50. *Radula sainsburiana* is a synonym of *R. helix* (Radulaceae, Marchantiophyta). *Phytotaxa* 162 (4): 239. doi: 10.11646/phytotaxa.162.4.9
- Renner MAM, Engel JJ, Patzak SDF, Heinrichs J (2015) A new species of *Brevianthus* (Brevianthaceae, Marchantiophyta) from New Caledonia with unusual underleaf production. *PhytoKeys* 50: 43–60. doi: 10.3897/phytokeys.50.4998
- Reyes DM (1982) El género *Diplasiolejeunea* en Cuba. *Acta Botanica Academiae Scientiarum Hungaricae* 28 (1/2): 145–180.
- Robinson H (1964) New taxa and new records of bryophytes from Mexico and Central America. *Bryologist* 67 (4): 446–458. doi: 10.2307/3240770
- Robinson H (1965) A new species of *Plagiochila* from Venezuela. *Bryologist* 68 (1): 93–94. doi: 10.2307/3240990
- Robinson H (1967) Preliminary studies on the bryophytes of Colombia. *Bryologist* 70 (1): 1–61. doi: 10.2307/3241138
- Robinson H (1970) Notes on the genus *Nowellia*. *Bryologist* 73 (1): 150–152. doi: 10.2307/3241596
- Robinson H (1976a) A new species of *Taxilejeunea* from Venezuela. *Phytologia* 34 (1): 67–68.
- Robinson H (1976b) Hepaticae. In: Steyermark JA, Brewer-Carías C (Eds) La vegetación de la cima del Macizo de Jaua. *Boletín de la Sociedad Venezolana de Ciencias Naturales* 32 (132/133): 179–405.
- Robinson H (1988) *Plagiochila rudischusteri*, a new species from the Paria Peninsula of Venezuela. *Beihefte zur Nova Hedwigia* 90: 199–202.
- Rodway L (1917a) Additions to the bryophyte flora. *Papers and Proceedings of the Royal Society of Tasmania* 1916: 44–47.
- Rodway L (1917b) Tasmanian Bryophyta. II. Hepatics. *Royal Society of Tasmania, Hobart*, 95 pp.
- Röll J (1891) Vorläufige Mittheilung über die von mir im Jahre 1888 in Nord-Amerika gesammelten neuen Arten der Lebermoose. *Botanisches Centralblatt* 45: 203–204.
- Roth A (1788) *Tentamen florae germanicae*. tomus I. Bibliophilio I. G. Mülleriano, Lipsiae, 568 pp.
- Roth A (1800) *Tentamen florae germanicae*, tomus III, pars I. Bibliopolio. I.G. Mülleriano, Lipsiae [Leipzig], 581 pp. doi: 10.5962/bhl.title.6694
- Roumeguère C (1888) Hépatiques de l'Aude. *Mémoires de la Société des arts et des sciences de Carcassonne* 5: 105–206.
- Rubasinghe SCK, Milne R, Forrest LL, Long DG (2011a) Realignment of the genera of Cleveaceae (Marchantiopsida, Marchantiidae). *Bryologist* 114 (1): 116–127. doi: 10.1639/0007-2745-114.1.116
- Rubasinghe SCK, Long DG, Milne R (2011b) A new combination and three new synonyms in the genus *Clevea* Lindb. (Marchantiopsida, Cleveaceae). *Journal of Bryology* 33 (2): 166–168. doi: 10.1179/1743282011Y.0000000005

- Ryan E (1889) *Scapania kaurinii* n. sp. Botaniska Notiser 42: 210–211.
- Salazar Allen N (2001) *Cyathodium bischlerianum*, sp. nov. (Marchantiales) a new species from the Neotropics. Bryologist 104 (1): 141–145. doi: 10.1639/0007-2745(2001)104[0141:CB-SNMA]2.0.CO;2
- Salmon ES (1901) *Isotachis Stephanii* sp. nov. Revue Bryologique 28 (4): 75–76.
- Sande Lacoste CM (1854) Novae species hepaticarum ex insula Java detexit Dr. F. Junghuhn. Nederlandsch Kruidkundig Archief. Verslagen en Mededelingen der Nederlandsche Botanische Vereeniging 3: 415–424.
- Sande Lacoste CM (1855) Speciebus novis hepaticarum javanicarum herbarii Junghuhniani. Nederlandsch Kruidkundig Archief. Verslagen en Mededelingen der Nederlandsche Botanische Vereeniging 3: 521–522.
- Sande Lacoste CM (1856a) Hepaticae. In: De Vriese WH (Ed.) Plantae indiae batavae orientalis, fasc. 1. E. J. Brill, Lugdunum Batavorum, 18–26.
- Sande Lacoste CM (1856b) Synopsis hepaticarum javanicarum. C. G. van der Post, Amsterdam, 1–112.
- Sande Lacoste CM (1856c) Hepaticae. In: Dozy F (Ed.) *Plagiochila sandei* Dz. Jac. Hazenberg Corn. fil., Leiden, 5–12.
- Sande Lacoste CM (1864) Hepaticae. *Jungermanniae* archipelagi indici. Annales Musei Botanici Lugduno-Batavi 1: 287–314.
- Sande Lacoste CM (1867) Musci et hepaticae. In: Miquel FAG (Ed.) Prolusio florum japonicarum. Vander Post, Amsterdam, 209–0.
- Sass-Gyarmati A (2001) *Lopholejeunea leioptera* Gyarmati (Lejeuneaceae, subfam. Ptychanthoideae), une nouvelle espèce récoltée dans la Réserve Spéciale de Manongarivo (Nord-Ouest de Madagascar). Candollea 56 (1): 79–83.
- Sass-Gyarmati A (2002) Ptychanthoideae (subfam. of Lejeuneaceae, hepaticae) from Vanuatu, with the description of *Caudalejeunea streimannii* Gyarmati sp. n. Tropical Bryology 22: 125–134.
- Sass-Gyarmati A (2005) *Lopholejeunea pocsii* Gyarmati (Lejeuneaceae, subfam. Ptychanthoideae), a new species of subgenus *Pholianthus* B. Thiers & Gradst. from the Fiji-Islands. Cryptogamie, Bryologie 26 (4): 403–410.
- Sass-Gyarmati A (2008) Bryophytes from the Fiji Islands, V. *Lopholejeunea vojtkoana* Gyarmati sp. nov. from Fiji Islands (Lejeuneaceae, subfam. Ptychanthoideae). Nova Hedwigia 87 (3/4): 479–486. doi: 10.1127/0029-5035/2008/0087-0479
- Sass-Gyarmati A, Pócs T (2014) *Acanthocoleus elgonensis* Gyarmati et Pócs, sp. nov. from Mount Elgon (Uganda). Cryptogamie, Bryologie 35 (2): 119–125. doi: 10.7872/cryb.v35.iss2.2014.119
- Sauter AE (1860) Berichtigung. Flora 43 (22): 351.
- Schäfer-Verwimp A (2001a) On *Lejeunea patriciae*, nom. nov. for *Lejeunea pilifera* Tixier. Candollea 56 (1): 63–67.
- Schäfer-Verwimp A (2001b) *Diplasiolejeunea pluridentata* (Lejeuneaceae, Marchantiopsida), eine neue Art aus Costa Rica. Haussknechtia 8: 71–78.
- Schäfer-Verwimp A (2004) The genus *Diplasiolejeunea* (Lejeuneaceae, Marchantiopsida) in the tropical Andes, with description of two new species. Cryptogamie, Bryologie 25 (1): 3–17.

- Schäfer-Verwimp A (2005) *Diplasiolejeunea riclefgrollei* (Lejeuneaceae, Hepaticae), a remarkable new species from Cuba. *Cryptogamie, Bryologie* 26 (1): 37–40.
- Schäfer-Verwimp A (2006) A new species of *Diplasiolejeunea* (Lejeuneaceae, Jungermanniopsida) from Sumatra, and a key for the genus in Asia. *Herzogia* 19: 239–244.
- Schäfer-Verwimp A (2010) A checklist of the liverworts and hornworts of Dominica, West Indies. *Cryptogamie, Bryologie* 31 (4): 313–415.
- Schäfer-Verwimp A (2012) *Cololejeunea tamasii* (Lejeuneaceae, Marchantiophyta), a new species from Panama. *Phytotaxa* 60: 9–12.
- Schäfer-Verwimp A, Pócs T (2009) Contributions to the hepatic flora of the Dominican Republic, West Indies. *Acta Botanica Hungarica* 51 (3/4): 367–425. doi: 10.1556/ABot.51.2009.3–4.13
- Schäfer-Verwimp A, Reiner-Drehwald ME (2009) Some additions to the bryophyte flora of Guadeloupe, West Indies, and new synonyms in the genera *Diplasiolejeunea* and *Lejeunea* (Lejeuneaceae). *Cryptogamie, Bryologie* 30 (3): 357–375.
- Schäfer-Verwimp A, Peralta DF, Costa Siqueira SM (2012) *Frullania curvilobula* (Frullaniaceae, Marchantiophyta), a new species from Brazil. *Phytotaxa* 57 (4): 27–30.
- Schäfer-Verwimp A, Nebel M, Heinrichs J (2013) *Diplasiolejeunea mayaykuensis* (Lejeuneaceae, Marchantiophyta), a new liverwort species from southern Ecuador. *Polish Botanical Journal* 58 (1): 143–148. doi: 10.2478/pbj-2013-0015
- Schäfer-Verwimp A, Feldberg K, Dong S, van Melick H, Peralta DF, Schmidt AR, Schneider H, Heinrichs J (2014) Towards a monophyletic classification of Lejeuneaceae III: the systematic position of *Leiolejeunea*. *Phytotaxa* 170 (3): 187–198. doi: 10.11646/phytotaxa.170.3.4
- Schiffner V (1890) Lebermoose (Hepaticae) mit Zugrundelegung der von Dr. A.C.M. Gottsche ausgeführten Vorarbeiten. In: Engler A (Ed.) *Die Forschungsreise S. M. S. "Gazelle", IV. Theil. Botanik 4*. Ernst Siegfried Mittler und Sohn, Berlin, 1–45. doi: 10.5962/bhl.title.984
- Schiffner V (1893a) Ueber exotische Hepaticae, hauptsächlich aus Java, Amboina und Brasilien, nebst einigen morphologischen und kritischen Bemerkungen über *Marchantia*. *Nova Acta Academiae Caesareae Leopoldino-Carolinae Germanicae Naturae Curiosorum* 60 (2): 219–316.
- Schiffner V (1893b) Hepaticae. In: Engler A, Prantl K (Eds) *Die Natürlichen Pflanzenfamilien, Teil. I, Abt. 3*. Engelmann, Leipzig, 1–144.
- Schiffner V (1894) Revision der Gattungen *Bryopteris*, *Thysananthus*, *Ptychanthus* und *Phragmicoma* im Herbarium des Berliner Museums. *Hedwigia* 33 (4): 170–189.
- Schiffner V (1896a) Neue Beiträge zur Bryologie Nordböhmens und des Riesengebirges. *Sitzungsberichte des deutschen naturwissenschaftlich-medicinischen Vereins für Böhmen "Lotos" in Prag* 44 (8): 267–289.
- Schiffner V (1896b) *Wiesnerella*, eine neue Gattung der Marchantiaceen. *Österreichische Botanische Zeitschrift* 46 (3): 82–88. doi: 10.1007/BF01677836
- Schiffner V (1897) Revision der Gattungen *Omphalanthus* und *Lejeunea* im Herbarium des Berliner Museums. *Botanische Jahrbücher für Systematik, Pflanzengeschichte und Pflanzengeographie* 23 (5): 578–600.

- Schiffner V (1898a) *Expositio plantarum in itinere suo indico annis 1893/94 suscepto collectarum*. Denkschriften der Kaiserlichen Akademie der Wissenschaften. Mathematisch-Naturwissenschaftliche Klasse 67: 153–203.
- Schiffner V (1898b) *Conspectus hepaticarum archipelagi indici*. Staatsdruckerei, Batavia, 382 pp.
- Schiffner V (1898c) Eine neue Pflanzengattung der indo-malayischen Flora. *Annales du Jardin botanique de Buitenzorg*, suppl. 2: 39–46.
- Schiffner V (1899a) Beiträge zur Lebermoosflora von Bhutan (Ost-Indien), II. *Österreichische Botanische Zeitschrift* 49 (6): 203–207. doi: 10.1007/BF01790595
- Schiffner V (1899b) Beiträge zur Lebermoosflora von Bhutan (Ost-Indien). *Österreichische Botanische Zeitschrift* 49 (4): 127–132. doi: 10.1007/BF01794513
- Schiffner V (1899c) Ueber einige Hepaticae aus Japan. *Österreichische Botanische Zeitschrift* 49 (11): 385–395. doi: 10.1007/BF01672323
- Schiffner V (1900a) Die Hepaticae der Flora von Buitenzorg. I. Band. E. J. Brill, Leiden, 220 pp.
- Schiffner V (1900b) Hepaticae massartianae javanicae. *Hedwigia* 39 (4): 191–208.
- Schiffner V (1900c) *Exposito plantarum in itinere suo indico annis 1893/94 suscepto collectarum*, II. Denkschriften der Kaiserlichen Akademie der Wissenschaften. Mathematisch-Naturwissenschaftliche Klasse 70: 155–218.
- Schiffner V (1900d) Nachweis einiger für die böhmische Flora neuer Bryophyten nebst Bemerkungen über einzelne bereits daselbst nachgewiesene Formen. *Sitzungsberichte des deutschen naturwissenschaftlich-medicinischen Vereins für Böhmen "Lotos" in Prag* 48: 320–354.
- Schiffner V (1901) Untersuchungen über *Mörckia Flotowiana* und über das Verhältnis der Gattungen *Mörckia* Gott. und *Calycularia* Mitt. zu einander. *Österreichische Botanische Zeitschrift* 51 (2): 41–51. doi: 10.1007/BF01672735
- Schiffner V (1902) Neue Materialien zur Kenntnis der Bryophyten der atlantischen Inseln. *Hedwigia* 41 (5): 269–294.
- Schiffner V (1903a) Studien über kritische Arten der Gattungen *Gymnomitrium* und *Marsupella* (Schluss). *Österreichische Botanische Zeitschrift* 53 (7): 280–284. doi: 10.1007/BF01791102
- Schiffner V (1903b) Studien über kritische Arten der Gattungen *Gymnomitrium* und *Marsupella* (Fortsetzung). *Österreichische Botanische Zeitschrift* 53 (6): 246–252. doi: 10.1007/BF01679557
- Schiffner V (1906a) Die Lebermoose der deutschen Südpolar-Expedition 1901–1903. In: Drygalski ED (Ed.) *Deutsche Südpolar-Expedition 1901–1903*, Band. 8 (Botanik). Georg Reimers, Berlin, 59–80.
- Schiffner V (1906b) Bryologische Fragmente XXVII–XXXIII. *Österreichische Botanische Zeitschrift* 56 (1): 20–27. doi: 10.1007/BF01791661
- Schiffner V (1906c) Die bisher bekannt gewordenen Lebermoose Dalmatiens, nebst Beschreibung und Abbildung von zwei neuen Arten. *Verhandlungen der Kaiserlich-Königlichen Zoologisch-Botanischen Gesellschaft in Wien* 56 (3): 263–280.
- Schiffner V (1908a) Kritische Bemerkungen über die europäischen Lebermoose mit Bezug auf die Exemplare des Exsiccatenwerkes, *Hepaticae europaeae exsiccatae* 5 (201–250). Bericht des Naturwissenschaftlich-medizinischen Vereins Innsbruck 31 [Beilage]: 1–69.
- Schiffner V (1908b) Bryologische Fragmente. XLIX–LII. *Österreichische Botanische Zeitschrift* 58 (10): 377–382. doi: 10.1007/BF01792481

- Schiffner V (1909a) Bemerkungen über zwei kritische Hepaticae der europäischen Flora. *Hedwigia* 48 (3): 184–190.
- Schiffner V (1909b) Hepaticae. In: Handel-Mazzetti HM (Ed.) Ergebnisse einer botanische Reise in des Pontische Randgebirge in Sandschak Trapezunt. *Annalen des Naturhistorischen Museums in Wien* 23: 6–212.
- Schiffner V (1910a) Über die Gattungen *Chiloscyphus* und *Heteroscyphus* n. gen. *Österreichische Botanische Zeitschrift* 60 (5): 169–173. doi: 10.1007/BF01631854
- Schiffner V (1910b) Eine neue europäische Art der Gattung *Anastrophyllum*. *Hedwigia* 49 (4): 396–399.
- Schiffner V (1910c) Studien über die Rhizoïden der Marchantiales. *Annales du Jardin botanique de Buitenzorg, suppl.* 3: 473–492.
- Schiffner V (1910d) Kritische Bemerkungen über die europäischen Lebermoose mit Bezug auf die Exemplare des Exsiccatenwerkes: Hepaticae europaeae exsiccatae VIII (363–376). *Lotos. Zeitschrift für Naturwissenschaften* 58: 314–333.
- Schiffner V (1911) Über einige neotropische *Metzgeria*-Arten, Schluß. *Österreichische Botanische Zeitschrift* 61 (7/8): 261–264. doi: 10.1007/BF01634594
- Schiffner V (1912a) Über eine kritische Form von *Riccia sorocarpa* und *Riccia pseudopapillosa*. *Hedwigia* 53 (1/2): 36–40.
- Schiffner V (1912b) Bryologische Fragmente LXVI–LXXI. *Österreichische Botanische Zeitschrift* 62 (1): 8–15. doi: 10.1007/BF01644055
- Schiffner V (1912c) Kritik der Europäischen Formen der Gattung *Chiloscyphus* auf phylogenetischer Grundlage. *Beihefte zum Botanischen Centralblatt* 29: 74–116.
- Schiffner V (1913) Bryophyta aus Mesopotamien und Kurdistan, Syrien, Rhodos, Mytilini und Prinkipo. *Annalen des K. K. Naturhistorischen Hofmuseums* 27: 472–504.
- Schiffner V (1914a) *Cephalozia*-Studien. *Hedwigia* 54 (6): 311–327.
- Schiffner V (1914b) Lebermoose aus Ungarn und Kroatien. IV. Beitrag. *Magyar Botanikai Lapok* 13: 302–309.
- Schiffner V (1918) Hepaticae baumgartnerianae dalmaticae. III. Serie. *Österreichische Botanische Zeitschrift* 67 (4/5): 147–156. doi: 10.1007/BF01648499
- Schiffner V (1919) Kritische Bemerkungen über die europäischen Lebermoose mit Bezug auf die Exemplare des Exsiccatenwerkes: Hepaticae europaeae exsiccatae XIV. Privately published, Prague, 1–20.
- Schiffner V (1929) Über epiphyllle Lebermoose aus Japan nebst einigen Beobachtungen über Rhizoïden, Elateren und Brutkörper. *Annales Bryologici* 2: 87–106.
- Schiffner V (1937) Nachträge und Berichtigungen zu Teil V, soweit solche nicht an leicht auffindbaren Stellen von anderen veröffentlicht sind. In: Keissler K, Lohwag H (Ed.) *Symbolae Sinicae, part 2. Fungi*. Springer Verlag, Berlin, 81–0.
- Schiffner V (1942) Monographie der Gattung *Exormotheca* Mitt. *Hedwigia* 81 (1/2): 40–74.
- Schiffner V (1944) *Myriocoleopsis*, eine neue Gattung der Jubuleae. *Hedwigia* 81 (5/6): 234–237.
- Schiffner V (1955) Die Lebermoose der Deutschen Limnologischen Sunda-Expedition. *Archiv für Hydrobiologie, suppl.* 21 (3/4): 382–407.
- Schiffner V, Arnell SW (1964) Ergebnisse der Botanischen Expedition der kaiserlichen Akademie der Wissenschaften nach Südbrasilien 1901. II. Thallophyta und Bryophyta. Hepaticae

- (Lebermoose). Österreichische Akademie der Wissenschaften. Mathematisch-Naturwissenschaftliche Klasse, Denkschriften 111: 1–156.
- Schiffner V, Pandé SK, Srivastava KP (1959) The genus *Riccardia* Gray in India. II. *Riccardia palmatififormis* Schffn. and *R. decolyana* Schffn. Journal of the Indian Botanical Society 38 (4): 538–542.
- Schill D, Long DG (2002) *Anastrophyllum lignicola* (Lophoziales), a new species from the Sino-Himalaya, and *A. hellerianum* new to China. Annales Botanici Fennici 39 (2): 129–132.
- Schill DB, Long DG, Moeller M, Squirrell J (2004) Phylogenetic relationships between Lophoziales and Scapaniales based on chloroplast sequences. Monographs in Systematic Botany from the Missouri Botanical Garden 98: 141–149.
- Schill DB, Long DG, Köckinger H (2008) Taxonomy of *Mannia controversa* (Marchantiaceae, Aytoniaceae) including a new subspecies from East Asia. Edinburgh Journal of Botany 65 (1): 35–47. doi: 10.1017/S0960428608004939
- Schill DB, Long DG, Forrest LL (2010) A molecular phylogenetic study of *Mannia* (Marchantiophyta, Aytoniaceae) using chloroplast and nuclear markers. Bryologist 113 (1): 164–179. doi: 10.1639/0007-2745-113.1.164
- Schmidel CC (1760) Dissertatio inauguralis botanica de *Jungermanniae* caractere. Tezschnerianis, Erlangae [Erlangen], 29 pp.
- Schmitt U, Winkler S (1968) Systematische Untersuchungen über die foliose Lebermoosgattung *Stephaniella* Jack. Österreichische Botanische Zeitschrift 115 (2): 120–133. doi: 10.1007/BF01373533
- Schrader HA (1797) Systematische Sammlung cryptogamischer Gewächse, Zweyte Lieferung. J. C. Dietrich, Göttingen, 16 pp.
- Schrader HA (1802) Plantae cryptogamicae nouae, rariores aut minus cognitae. Journal für die Botanik 5: 66–80.
- Schrank FP (1792) Primitiae florum salisburgensis dissertatione praevia de discrimine plantarum ab animalibus. Varrentrapp et Wenner, Frankfurt a. M., 240 pp.
- Schreber JCD (1771) Spicilegium florum lipsicae. Bibliopolio Dykiano, Lipsiae [Leipzig], 148 pp.
- Schuette SW, Stotler RE (2005) A conspectus of the liverwort genus *Jensenia* in Latin America. Journal of the Hattori Botanical Laboratory 97: 299–308.
- Schultze-Motel W, Menzel M (1987) Die Lebermoosflora im BRYOTROP-Transecte von Peru. Beihefte zur Nova Hedwigia 88: 61–104.
- Schumacker R, Váňa J (2005) Identification keys to the liverworts and hornworts of Europe and Macaronesia, ed. 2. Sorus, Poznań, 209 pp.
- Schuster RM (1950) Notes on nearctic hepaticae. II. The hepaticae in east coast of Hudson Bay. Bulletin of the National Museum of Canada 122: 1–62.
- Schuster RM (1952) Notes on nearctic hepaticae. V. The status of *Lophozia gracillima* Buch and its relation to *Lophozia longidens*, *Lophozia porphyroleuca* and *Sphenolobus ascendens*. Bryologist 55 (3): 173–185. doi: 10.2307/3239846
- Schuster RM (1953) Boreal hepaticae. A manual of the liverworts of Minnesota and adjacent regions. American Midland Naturalist 49 (2): 257–684.
- Schuster RM (1956a) North American Lejeuneaceae. V. Schizostipae: *Ceratolejeunea*. Journal of the Elisha Mitchell Scientific Society 72 (2): 292–316.

- Schuster RM (1956b) Notes on American Lejeuneaceae. IV. Paradoxae: *Cololejeunea* (concl.), *Diplasiolejeunea*. *Journal of the Elisha Mitchell Scientific Society* 72 (1): 87–125.
- Schuster RM (1956c) *Aphanolejeunea cornutissima* nom. nov. *Bryologist* 59 (3): 217–218. doi: 10.2307/3239952
- Schuster RM (1957a) North American Lejeuneaceae. VI. *Lejeunea*. Introduction and keys; subgenus *Lejeunea*. *Journal of the Elisha Mitchell Scientific Society* 73 (1): 122–197.
- Schuster RM (1957b) Notes on nearctic hepaticae. XII. *Marsupella paroica* n. sp. *Bryologist* 60 (2): 145–151. doi: 10.2307/3240015
- Schuster RM (1957c) Notes on Nearctic hepaticae, IX. A study of *Plagiochila yokogurensis* Steph. *Journal of the Hattori Botanical Laboratory* 18: 14–26.
- Schuster RM (1957d) North American lejeuneaceae. VI. *Lejeunea*: subgenus *Lejeunea* (II, concluded). *Journal of the Elisha Mitchell Scientific Society* 73 (2): 388–443.
- Schuster RM (1958a) Notes on nearctic hepaticae. VI. Phytogeographical relationships of critical species in Minnesota and adjacent areas of the Great Lakes. *Rhodora* 60 (717): 243–256.
- Schuster RM (1958b) Notes on nearctic hepaticae. XIII: *Tritomaria* (Lophoziaceae) in Arctic. *Canadian Journal of Botany* 36 (2): 269–288. doi: 10.1139/b58-023
- Schuster RM (1959a) A monograph of the nearctic Plagiochilaceae. Part. I. Introduction and sectio I. *Asplenioides*. *American Midland Naturalist* 62 (1): 1–166. doi: 10.2307/2422546
- Schuster RM (1959b) A monograph of the nearctic Plagiochilaceae. Part. II. Sectio *Zonatae* through Sectio *Parallelae*. *American Midland Naturalist* 62 (2): 257–395. doi: 10.2307/2422533
- Schuster RM (1959c) Studies on hepaticae. I *Temnoma*. *Bryologist* 62 (4): 233–242. doi: 10.2307/3240148
- Schuster RM (1960a) Notes on nearctic hepaticae. XIX. The relationships of *Blepharostoma*, *Temnoma* and *Lepicolea*, with description of *Lophochaete* and *Chandonanthus* subg. *Tetra-lophozia*, subg. n. *Journal of the Hattori Botanical Laboratory* 23: 192–210.
- Schuster RM (1960b) Studies on hepaticae. II. The new family Chaetophylliopsidaceae. *Journal of the Hattori Botanical Laboratory* 23: 68–76.
- Schuster RM (1960c) A monograph of the nearctic Plagiochilaceae. Part. III. Sectio *Contiguae* to conclusion. *American Midland Naturalist* 63 (1): 1–130. doi: 10.2307/2422932
- Schuster RM (1961a) Studies in Lophoziaceae. 1. The genera *Anastrophyllum* and *Sphenolobus* and their segregates. *Revue Bryologique et Lichénologique* 30 (1/2): 55–73.
- Schuster RM (1961b) Notes on nearctic hepaticae. XVIII. New Lophoziaceae from the arctic archipelago of Canada. *Canadian Journal of Botany* 39 (4): 965–992. doi: 10.1139/b61-081
- Schuster RM (1962a) North American Lejeuneaceae. VIII. *Lejeunea* subgenera *Microlejeunea* and *Chaetolejeunea*. *Journal of the Hattori Botanical Laboratory* 25: 1–80.
- Schuster RM (1962b) Notes on American Lejeuneaceae. VII. *Lejeunea* (*Lejeunea*) *blomquistii* sp. nov. *Journal of the Elisha Mitchell Scientific Society* 78 (1): 64–68.
- Schuster RM (1963a) An annotated synopsis of the genera and subgenera of Lejeuneaceae. I. Introduction; annotated keys to subfamilies and genera. *Beihefte zur Nova Hedwigia* 9: 1–203.
- Schuster RM (1963b) Studies on antipodal hepaticae. I. Annotated keys to the genera of antipodal Hepaticae with special reference to New Zealand and Tasmania. *Journal of the Hattori Botanical Laboratory* 26: 185–309.

- Schuster RM (1963c) Studies on hepaticae XI-XIII. On *Temnoma*, *Vetaforma* and *Lophochaete* (Blepharostomaceae; Hepaticae). *Nova Hedwigia* 5: 27–46.
- Schuster RM (1964a) Studies on antipodal hepaticae. IV. Metzgeriales. *Journal of the Hattori Botanical Laboratory* 27: 183–216.
- Schuster RM (1964b) Studies on hepaticae. XXII-XXV. *Pleurocladopsis* Schust., gen. n., *Eoisotachis* Schust., gen. n., *Grollea* Schust., gen. n., with critical notes on *Anthelia* Dumort. *Nova Hedwigia* 8 (3/4): 275–296.
- Schuster RM (1965a) North American Lejeuneaceae. IX. *Taxilejeunea*. *Journal of the Elisha Mitchell Scientific Society* 81 (1): 32–50.
- Schuster RM (1965b) Studies on hepaticae. XXVI. The *Bonneria-Paracromastigum-Pseudocephalozia-Hyalolepidozia-Zoopsis-Pteropsiella* complex and its allies – a phylogenetic study, part 1. *Nova Hedwigia* 10 (1/2): 19–61.
- Schuster RM (1965c) Studies on antipodal hepaticae. II. *Archeophylla* Schuster and *Archeochaete* Schuster, new genera of Blepharostomataceae. *Transactions of the British Bryological Society* 4 (5): 801–817. doi: 10.1179/006813865804811975
- Schuster RM (1966a) Studies on hepaticae, VII-X. On *Adelanthus* Mitten and *Calyptrocolea* Schuster, gen. n. *Revue Bryologique et Lichénologique* 34 (3/4): 676–703.
- Schuster RM (1966b) Studies in Lophoziaceae. 1. The genera *Anastrophyllum* and *Sphenolobus* and their segregates. 2. *Cephalolobus* gen. n., *Acrolophozia* gen. n. and *Protomarsupella* gen. n. *Revue Bryologique et Lichénologique* 34 (1/2): 241–287.
- Schuster RM (1966c) A memoir on the family Blepharostomataceae, II. *Candollea* 21 (2): 241–355.
- Schuster RM (1966d) The hepaticae and anthocerotae of North America. I. Columbia University Press, New York, 802 pp.
- Schuster RM (1966e) A memoir on the family Blepharostomataceae, I. *Candollea* 21 (1): 59–136.
- Schuster RM (1966f) Studies on hepaticae, XXVIII. On *Phycolepidozia*, a new, highly reduced genus of Jungermanniales of questionable affinity. *Bulletin of the Torrey Botanical Club* 93 (6): 437–449. doi: 10.2307/2483417
- Schuster RM (1967a) North American Lejeuneaceae. X. *Harpalejeunea*, *Drepanolejeunea*, and *Leptolejeunea*. *Journal of the Elisha Mitchell Scientific Society* 83 (4): 192–229.
- Schuster RM (1967b) A note on the genus *Gymnocolea* Dum. *Bryologist* 70 (1): 111–112. doi: 10.2307/3241147
- Schuster RM (1967c) Studies on hepaticae. XV. Calobryales. *Nova Hedwigia* 13 (1/2): 1–76.
- Schuster RM (1967d) Studies on antipodal hepaticae. IX. Phyllohalliaceae. *Transactions of the British Bryological Society* 5 (2): 283–288. doi: 10.1179/006813867804804296
- Schuster RM (1968a) Studies on antipodal hepaticae. X. Subantarctic Scapaniaceae, Balantiopsidaceae and Schistochilaceae. *Bulletin of the National Science Museum, Tokyo* (n.ser.) 11 (1): 13–31.
- Schuster RM (1968b) Studies on the hepaticae, XXIX-XLIV. A miscellany of new taxa and new range extensions. *Nova Hedwigia* 15: 437–529.
- Schuster RM (1969a) Studies on hepaticae XLVI-XLVII. On *Alobiella* (Spr.) Schiffn. and *Alobiellopsis* Schust. *Bulletin of the National Science Museum, Tokyo* (n.ser.) 12 (3): 659–683.

- Schuster RM (1969b) The hepaticae and anthocerotae of North America. II. Columbia University Press, New York, 1062 pp.
- Schuster RM (1969c) Problems of the antipodal distribution in lower land plants. *Taxon* 18 (1): 46–91. doi: 10.2307/1218591
- Schuster RM (1970a) Studies on antipodal hepaticae, III. *Jubulopsis* Schuster, *Neohattoria* Kamimura and *Amphijubula* Schuster. *Journal of the Hattori Botanical Laboratory* 33: 266–304.
- Schuster RM (1970b) Studies on hepaticae, XLIX-LIII. New Lejeuneaceae from Dominica and Jamaica. *Bulletin of the Torrey Botanical Club* 97 (6): 336–352. doi: 10.2307/2483854
- Schuster RM (1971a) The ecology and distribution of hepaticae in a mahogany hammock in tropical Florida. *Castanea* 36 (2): 90–111.
- Schuster RM (1971b) Studies on Cephalozellaceae. *Nova Hedwigia* 22: 121–265.
- Schuster RM (1971c) Studies of antipodal Schistochilaceae and Scapaniaceae. *Bulletin of the National Science Museum, Tokyo (n.ser.)* 14 (4): 609–660.
- Schuster RM (1971d) Two new antipodal species of *Haplomitrium* (Calobryales). *Bryologist* 74 (2): 131–143. doi: 10.2307/3241827
- Schuster RM (1972) Phylogenetic and taxonomic studies in Jungermanniidae. *Journal of the Hattori Botanical Laboratory* 36: 321–405.
- Schuster RM (1974) The hepaticae and anthocerotae of North America. III. Columbia University Press, New York, 880 pp.
- Schuster RM (1978a) Studies on Venezuelan hepaticae. I. *Phytologia* 39 (4): 239–251.
- Schuster RM (1978b) Studies on Venezuelan hepaticae. II. *Phytologia* 39 (6): 425–432.
- Schuster RM (1980a) Studies on hepaticae. LIV-LVIII. *Kurzia* v. Mart. [*Microlepidozia* (Spr.) Joerg.], *Megalembidium* Schust., *Psiloclada* Mitt., *Drucella* Hodgs. and *Isolembidium* Schust. *Journal of the Hattori Botanical Laboratory* 48: 337–421.
- Schuster RM (1980b) New combinations and taxa of hepaticae I. *Phytologia* 45 (5): 415–437.
- Schuster RM (1980c) The hepaticae and anthocerotae of North America. IV. Columbia University Press, New York, 1334 pp.
- Schuster RM (1981a) Austral hepaticae. VIII. Tuyamaelloideae. *Phytologia* 47 (4): 301–308.
- Schuster RM (1981b) Evolution and speciation in *Pellia*, with special reference to the *Pellia megaspora-endiviifolia* complex (Metzgeriales). I. Taxonomy and distribution. *Journal of Bryology* 11 (3): 411–431. doi: 10.1179/jbr.1981.11.3.411
- Schuster RM (1982) Studies on hepaticae, LIX. On *Sandeothallus* Schust., gen. n. and the classification of the Metzgeriales. *Nova Hedwigia* 36: 1–16.
- Schuster RM (1983a) Phytogeography of the Bryophyta. In: Schuster RM (Ed.) *New Manual of Bryology*, vol. 1. Hattori Botanical Laboratory, Nichinan, 463–626.
- Schuster RM (1983b) Notes on nearctic hepaticae. XVI. New taxa of *Frullania* from eastern North America. *Phytologia* 53 (5): 364–366.
- Schuster RM (1984) Diagnoses of some new taxa of hepaticae. *Phytologia* 56 (2): 65–74.
- Schuster RM (1985a) Studies in Porellineae: New taxa of Jubulaceae. *Phytologia* 57 (5): 369–373.
- Schuster RM (1985b) Some new taxa of hepaticae. *Phytologia* 57 (6): 408–414.
- Schuster RM (1985c) Austral hepaticae. XIX. Some taxa new to New Zealand and New Caledonia. *Phytologia* 56 (7): 449–464.

- Schuster RM (1986) *Gymnocolea borealis* (Frisvoll & Moen) Schust. [*Lophozia* (*Leiocolea*) *borealis* Frisvoll & Moen] in North America. *Lindbergia* 12 (1): 5–8.
- Schuster RM (1987a) Phylogenetic studies on Jungermanniidae. II. Mastigophoraceae and Chaetophyllopsiaceae. *Memoirs of the New York Botanical Garden* 45: 733–748.
- Schuster RM (1987b) Preliminary studies on anthocerotae. *Phytologia* 63 (3): 193–201.
- Schuster RM (1987c) On *Aureolejeunea* Schust. and *Brachiolejeunea paramicola* Herzog. *Phytologia* 61 (7): 445–447.
- Schuster RM (1987d) Studies on Metzgeriales: I. North American Aneuraceae. *Journal of the Hattori Botanical Laboratory* 62: 299–329.
- Schuster RM (1989) Studies on the hepatic flora of Prince Edward Islands. I. Aneuraceae. *Journal of the Hattori Botanical Laboratory* 67: 59–108.
- Schuster RM (1991a) On neotenic species of *Radula*. *Journal of the Hattori Botanical Laboratory* 70: 51–62.
- Schuster RM (1991b) Diagnoses of new taxa of hepaticae. I. Jungermanniidae. *Journal of the Hattori Botanical Laboratory* 70: 143–150.
- Schuster RM (1992a) The oil-bodies of the hepaticae. II. Lejeuneaceae (part 2). *Journal of the Hattori Botanical Laboratory* 72: 163–359.
- Schuster RM (1992b) The hepaticae and anthocerotae of North America. V. Columbia University Press, New York, 854 pp.
- Schuster RM (1992c) Studies on Marchantiales. I–III. *Journal of the Hattori Botanical Laboratory* 71: 267–287.
- Schuster RM (1992d) The hepaticae and anthocerotae of North America. VI. Columbia University Press, New York, 937 pp.
- Schuster RM (1993a) Studies on hepaticae, LXII–LXIV. Lepidoziaceae subfamily Zoopsidoideae (1). *Nova Hedwigia* 56 (1/2): 35–59.
- Schuster RM (1993b) On *Cephalozia pachycaulis* sp. nov. and the perimeters of *Cephalozia*. *Bryologist* 96 (4): 619–625. doi: 10.2307/3243994
- Schuster RM (1994) Studies on Lejeuneaceae. I. Preliminary studies on new genera of Lejeuneaceae. *Journal of the Hattori Botanical Laboratory* 75: 211–235.
- Schuster RM (1995a) Phylogenetic and taxonomic studies of Jungermanniidae. III. Calypogeiaceae. *Fragmenta Floristica et Geobotanica* 40 (2): 825–888.
- Schuster RM (1995b) Studies on Cephaloziellaceae. III. On *Cephalomitrium* Schust., gen. n. *Nova Hedwigia* 61 (3/4): 547–559.
- Schuster RM (1995c) The hepaticae of Prince Edward Islands. II. On *Gymnocoleopsis* (Schust.) Schust., *Lophozia cylindriformis* (Mitt.) Steph. and the subgeneric classification of the genus *Lophozia* Dumort. *Journal of the Hattori Botanical Laboratory* 78: 119–135.
- Schuster RM (1995d) On a new species of *Gymnomitrium*, *G. mucrophorum* Schust., sp. n. *Bryologist* 98 (2): 242–245. doi: 10.2307/3243310
- Schuster RM (1996a) Studies on antipodal hepaticae. XII. Gymnomitriaceae. *Journal of the Hattori Botanical Laboratory* 80: 1–147.
- Schuster RM (1996b) On *Olgantha* Schust., gen. n. Isophylly and evolution of Jungermanniales. *Nova Hedwigia* 63 (3/4): 529–543.

- Schuster RM (1996c) Studies on Lejeuneaceae II. Neotropical taxa of *Drepanolejeunea* (Spr.) Schiffn. *Nova Hedwigia* 62 (1/2): 1–46.
- Schuster RM (1996d) Studies on Cephaloziellaceae. IV. On New Zealand taxa. *Nova Hedwigia* 63 (1/2): 1–61.
- Schuster RM (1997a) On *Bragginsella*, a new genus of Jungermanniales from New Zealand. *Bryologist* 100 (3): 362–367. doi: 10.2307/3244506
- Schuster RM (1997b) On a new, microphyllous New Caledonian *Acromastigum* (Lepidoziaceae). *Nova Hedwigia* 64 (3/4): 613–620.
- Schuster RM (1998a) On *Lejeunea* (*Papillolejeunea*) *pocsii* Schust., sp. n. of New Zealand. *Journal of the Hattori Botanical Laboratory* 85: 83–87.
- Schuster RM (1998b) On the genus *Scaphophyllum* (Jungermanniaceae). *Bryologist* 101 (3): 428–434. doi: 10.2307/3244182
- Schuster RM (1999a) Studies on hepaticae. LXVII–LXVIII. Lepidoziaceae subfamily Zoopsidoideae (4): *Monodactylopsis* and *Pteropsiella*. *Nova Hedwigia* 69 (3/4): 517–540.
- Schuster RM (1999b) Studies on hepaticae LXVI. Lepidoziaceae subfamily Zoopsidoideae (3): *Zoopsidella*. *Nova Hedwigia* 69 (1/2): 101–150.
- Schuster RM (1999c) *Harpalejeunea* (Spr.) Schiffn. I. Studies on a new Andean species of *Harpalejeunea*. *Journal of the Hattori Botanical Laboratory* 87: 287–294.
- Schuster RM (1999d) Studies on hepaticae, LXV. Lepidoziaceae subfamily Zoopsidoideae (2): *Zoopsis*. *Nova Hedwigia* 68 (1/2): 1–64.
- Schuster RM (2000a) Austral hepaticae. Part 1. Beihefte zur *Nova Hedwigia* 118: 1–524.
- Schuster RM (2000b) Studies on Lejeuneaceae. III. Revisionary studies on *Stenolejeunea* Schust. *Journal of the Hattori Botanical Laboratory* 89: 151–170.
- Schuster RM (2000c) Studies on Lejeuneaceae. II. *Rectolejeunea* Evs. emend. Schust. (Lejeuneoideae). *Journal of the Hattori Botanical Laboratory* 89: 113–150.
- Schuster RM (2001a) Revisionary studies on austral Acrobolbaceae, I. *Journal of the Hattori Botanical Laboratory* 90: 97–166.
- Schuster RM (2001b) Studies on hepaticae. LXI. Trichocoleaceae. *Nova Hedwigia* 73 (3/4): 461–486.
- Schuster RM (2002a) Revisionary studies of the Chandonanthoideae (Jungermanniales, Jungermanniaceae). *Nova Hedwigia* 74 (3/4): 465–496. doi: 10.1127/0029-5035/2002/0074-0465
- Schuster RM (2002b) Austral hepaticae. Part II. Beihefte zur *Nova Hedwigia* 119: 1–606.
- Schuster RM (2006) Studies on Lejeuneaceae. V. *Leucolejeunea* and allies. *Journal of the Hattori Botanical Laboratory* 100: 361–406.
- Schuster RM, Damsholt K (1974) The hepaticae of west Greenland from ca. 66° N to 72° N. *Meddelelser om Grønland* 199 (1): 1–373.
- Schuster RM, Damsholt K (1987) Some new taxa of Jungermanniales. *Phytologia* 63 (5): 325–328.
- Schuster RM, Engel JJ (1973) Austral hepaticae. II. *Evansianthus*, a new genus of Geocalycaceae. *Bryologist* 76 (4): 516–520. doi: 10.2307/3241410
- Schuster RM, Engel JJ (1974) A monograph of the genus *Pseudocephalozia* (Hepaticae). *Journal of the Hattori Botanical Laboratory* 38: 665–701.
- Schuster RM, Engel JJ (1975) Austral hepaticae. V. Studies on Schistochilaceae. *Phytologia* 30 (4): 241–250.

- Schuster RM, Engel JJ (1977) Austral hepaticae. V. The Schistochilaceae of South America. *Journal of the Hattori Botanical Laboratory* 42: 273–423.
- Schuster RM, Engel JJ (1981) Austral hepaticae. XIII. Two new genera of Geocalyceaceae (Lophocoleaceae). *Phytologia* 47 (4): 309–312.
- Schuster RM, Engel JJ (1982) Austral hepaticae. XVI. Gondwanalandic Leptoscyphoideae (Geocalyceaceae). *Lindbergia* 8 (2): 65–74.
- Schuster RM, Engel JJ (1985) Austral hepaticae. V(2). Temperate and subantarctic Schistochilaceae of Australasia. *Journal of the Hattori Botanical Laboratory* 58: 255–539.
- Schuster RM, Engel JJ (1987a) Austral hepaticae. XX. New species of *Hygrolembidium* (Lepidoziaceae). *Phytologia* 62 (1): 9–12.
- Schuster RM, Engel JJ (1987b) A monograph of Lepidoziaceae subfam. Lembidioideae (Hepaticae). *Journal of the Hattori Botanical Laboratory* 63: 247–350.
- Schuster RM, Engel JJ (1996) Austral hepaticae. XXI. *Paracromastigum fiordlandiae* (sp. nov.) and the delimitation of *Paracromastigum* and *Hyalolepidozia* (Lepidoziaceae). *Brittonia* 48 (2): 165–173. doi: 10.2307/2807810
- Schuster RM, Engel JJ (1997) Austral hepaticae. XXIV. A revision of *Isotachis* Mitt. (Balantiopsaceae: Isotachidoideae) in New Zealand. *Journal of the Hattori Botanical Laboratory* 83: 187–227.
- Schuster RM, Giancotti C (1993) On *Vitalianthus* Schust. & Giancotti, a new genus of Lejeuneaceae. *Nova Hedwigia* 57 (3/4): 445–456.
- Schuster RM, Hattori S (1954) The oil bodies of the hepaticae. II. The Lejeuneaceae. *Journal of the Hattori Botanical Laboratory* 11: 11–86.
- Schuster RM, Inoue H (1975) Studies on Pallaviciniaceae and Allisoniaceae (Metzgeriales) in Japan. 1. Introduction and genus *Hattorianthus*, gen. nov. *Bulletin of the National Science Museum, Tokyo. Series B, Botany* 1 (3): 101–107.
- Schuster RM, Konstantinova NA (1995) Studies on Treubiales, I. On *Apotreubia* Hatt. et al. and *A. hortoniae* Schust. & Konstantinova, sp. n. *Journal of the Hattori Botanical Laboratory* 78: 41–61.
- Schuster RM, Scott GAM (1969) A study of the family Treubiaceae (Hepaticae; Metzgeriales). *Journal of the Hattori Botanical Laboratory* 32: 219–268.
- Schuster RM, Steere WC (1958) *Hygrolejeunea alaskana* sp. n., a critical endemic of northern Alaska. *Bulletin of the Torrey Botanical Club* 85 (3): 188–196. doi: 10.2307/2483215
- Schuster RM, Steere WC, Thomson JW (1959) The terrestrial cryptogams of northern Ellesmere Island. *Bulletin of the National Museum of Canada* 164: 1–132.
- Schwägrichen CF (1814) *Historiae muscorum hepaticarum, prodromus*. Joannis Ambrosii Barth, Lipsiae [Leipzig], 39 pp.
- Schweinfurth G (1866) *Beitrag zur Flora Aethiopiens, Erste Abtheilung*. Georg Reimers, Berlin, 311 pp.
- Schweinitz LD (1821) *Specimen florum americanae septentrionalis cryptogamicarum*. J. Gales, Raleigh 27 pp. doi: 10.5962/bhl.title.62456
- Scopoli JA (1772) *Flora carniolica*. Tom. II. Editio secunda. Joannis Pauli Krauss, Viennae [Wien], 496 pp.
- Scott EB (1960) A monograph of the genus *Lepicolea* (Hepaticae). *Nova Hedwigia* 2: 129–172.
- Scott GAM, Beckmann K (1987) The biology of *Lethocolea squamata*. *Symposia Biologica Hungarica* 35: 209–214.

- Scott GAM, Bradshaw JA (1985) Australian liverworts (Hepaticae): Annotated list of binomials and check-list of published species with bibliography. *Brunonia* 8 (1): 1–171. doi: 10.1071/BRU9850001
- Scott EB, Miller HA (1959) Notes on Hawaiian hepaticae IV. *Herberta herpocladioides* sp. nov. *Bryologist* 62 (2): 116–118. doi: 10.2307/3240029
- Scott GAM, Pike DC (1984) New species of *Fossombronina* from Australia. *Journal of the Hattori Botanical Laboratory* 56: 339–349.
- Scott GAM, Pike DC (1987) Studies on *Fossombronina* in Australia. II. Fourteen more new species. *Journal of the Hattori Botanical Laboratory* 62: 367–386.
- Scott GAM, Pike DC (1988a) A new species of *Fossombronina* from Australia. *Beihefte zur Nova Hedwigia* 90: 109–112.
- Scott GAM, Pike DC (1988b) Revisionary notes on *Fossombronina*. *Bryologist* 91 (3): 193–201. doi: 10.2307/3243219
- Seaward MRD, Ellis LT, Pócs T, Wigginton MJ (2006) Bryophyte flora of the Chagos Archipelago. *Journal of Bryology* 28 (1): 11–19. doi: 10.1179/174328206X90440
- Segarra-Moragues JG, Puche F (2014) Advances in the knowledge of South African *Riella* (Sphaerocarpaceae) and a new endemic species, *Riella trigonospora*. *South African Journal of Botany* 94: 166–176. doi: 10.1016/j.sajb.2014.06.013
- Segarra-Moragues JG, Puche F, Sabovljević M (2012) *Riella heliospora* (Riellaceae) a new monoecious species of *Riella* subgenus *Trabutiella* from California. *Systematic Botany* 37 (2): 307–319. doi: 10.1600/036364412X635368
- Segarra-Moragues JG, Puche F, Sabovljević M, Infante M, Heras P (2014) Taxonomic revision of *Riella* subgenus *Trabutiella* (Riellaceae, Sphaerocarpaceae). *Phytotaxa* 159 (3): 131–174. doi: 10.11646/phytotaxa.159.3.1
- Seppelt RD (1998) The genus *Riccia* (Marchantiales: Ricciaceae), in South Australia. *Hikobia* 12: 317–341.
- Sérgio C, Perold SM (1992) A new species of *Riccia* L. from the island of Madeira, *Riccia atlantica*, sp. nov. *Journal of Bryology* 17 (1): 127–132. doi: 10.1179/jbr.1992.17.1.127
- Sérgio C, Sim-Sim M (1989) *Riccia incrassata* Brotero, a neglected name of *Oxymitra paleacea* Bisch. ex Lindenb. *Journal of Bryology* 15 (4): 659–663. doi: 10.1179/jbr.1989.15.4.659
- Sharma D, Srivastava SC (1993) Indian Lepidoziinae (a taxonomic revision). *Bryophytorum Bibliotheca* 47: 1–353.
- Shaw B, Crandall-Stotler B, Váňa J, Stotler RE, von Konrat M, Engel JJ, Davis CE, Long DG, Sova P, Shaw AJ (2015) Phylogenetic relationships and morphological evolution in a major clade of leafy liverworts (phylum Marchantiophyta, order Jungermanniales): suborder Jungermanniineae. *Systematic Botany* 40 (1): 27–45. doi: 10.1600/036364415X686314
- Shi X-Q, Gradstein SR, Zhu R-L (2015a) Phylogeny and taxonomy of *Archilejeunea* (Marchantiophyta: Lejeuneaceae: Ptychanthoideae) based on molecular markers and morphology. *Taxon* 64 (5): 881–892. doi: 10.12705/645.1
- Shi X-Q, Zhu R-L (2015b) A revision of *Archilejeunea* s.str. (Lejeuneaceae, Marchantiophyta). *Nova Hedwigia* 100 (3/4): 589–601. doi: 10.1127/nova_hedwigia/2015/0246

- Shi X-Q, Gradstein SR, Zhu R-L (2015) Type studies on *Archilejeunea* (Lejeuneaceae, Marchantiophyta): six new synonyms and a new combination. *Phytotaxa* 195 (3): 248–250. doi: 10.11646/phytotaxa.195.3.5
- Shimizu D, Hattori S (1952) Studies on the Japanese species of *Asterella* (1). *Journal of the Hattori Botanical Laboratory* 8: 46–54.
- Shimizu D, Hattori S (1953a) Marchantiales of Japan, I. *Journal of the Hattori Botanical Laboratory* 9: 32–44.
- Shimizu D, Hattori S (1953b) Marchantiales of Japan (2). *Journal of the Hattori Botanical Laboratory* 10: 49–55.
- Shimizu D, Hattori S (1954) Marchantiales of Japan. III. *Journal of the Hattori Botanical Laboratory* 12: 53–75.
- Shimizu D, Hattori S (1955) Marchantiales of Japan. IV. *Journal of the Hattori Botanical Laboratory* 14: 91–107.
- Shliakov RN (1971) Dve novye kruppokletochinnye razpovidnosti pechenochnikov [Varietates duae novae magnicellulares hepaticarum]. *Novosti Sistematiki Nizših Rastenij* 8: 327–334.
- Shliakov RN (1973) Sistematičeskie zametkino semejtvo Lophoziaceae Cavers [Notulae systematicae in Lophoziaceis Cavers]. *Novosti Sistematiki Nizših Rastenij* 10: 287–302.
- Shliakov RN (1975) Dopolneniâ k flore pechenochnikov Sovetskoj arktiki [Additamenta ad floram hepaticarum arcticae URSS]. *Novosti Sistematiki Nizših Rastenij* 12: 318–323.
- Shliakov RN (1976) Novye kombinacii i novye taksony pechenochnyh mkhov (anthocerotae i hepaticae) [Combinaciones et taxa anthocerotarum et hepaticarum nova]. *Novosti Sistematiki Nizših Rastenij* 13: 225–229.
- Shliakov RN (1978) Novye vidy pechninochnikov iz Sibiri i dal'nego vostoka [Hepaticarum species novae e Sibiria et oriente extremo]. *Novosti Sistematiki Nizših Rastenij* 15: 242–247.
- Shliakov RN (1979) Novye dopolneniia k flore pechenochnikov severnykh rajonov SSSR [Additamenta nova ad floram hepaticarum regionum septentrionalium URSS]. *Novosti Sistematiki Nizših Rastenij* 16: 201–208.
- Shliakov RN (1980a) Pechenochnye Mkhi Severa SSSR. 3. *Nauka, Leningrad*, 188 pp.
- Shliakov RN (1980b) Novye interesnye nakhodki pechenochnikov iz severnykh rajonov SSSR [De hepaticis in regionibus borealibus URSS inventis novis et curiosis]. *Novosti Sistematiki Nizših Rastenij* 17: 235–241.
- Shliakov RN (1981) Pechenochnye Mkhi Severa SSSR. 4. *Nauka, Leningrad*, 221 pp.
- Shliakov RN (1982) Novye kombinacii i novye nazvaniia mokhoobraznykh [Combinaciones et nomina bryophytorum novae]. *Novosti Sistematiki Nizših Rastenij* 19: 209–210.
- Shu L, Zhu RL (2014) Notes on Early Land Plants Today. 59. *Leptolejeunea himalayensis* and *Leptocolea mirpurensis* (Marchantiophyta, Lejeuneaceae) synonymous with *Lejeunea cocoes* and *Cololejeunea raduililoba*, respectively. *Phytotaxa* 173 (1): 95–96. doi: 10.11646/phytotaxa.173.1.11
- Sim TR (1926) The bryophyta of South Africa. *Transactions of the Royal Society of South Africa* 15 (1): 1–475. doi: 10.1080/00359192609519311
- Sim-Sim M, Sérgio C, Mues R, Kraut L (1995) A new *Frullania* species (*Trachycolea*) from Portugal and Macaronesia, *Frullania azorica* sp. nov. *Cryptogamie: Bryologie, Lichénologie* 16 (2): 111–123.

- Sim-Sim M, Fontinha S, Mues R, Lion U (2000) A new *Frullania* species (subg. *Frullania*) from Deserta Grande, Madeira archipelago, *Frullania sergiae* sp. nov. *Nova Hedwigia* 71 (1/2): 185–193.
- Singh DK (1983a) *Trichocolea udarii* Singh – a new hepatic from Jaintia Hills (Meghalaya), India. *Bulletin of the Botanical Survey of India* 25: 177–180.
- Singh DK (1983b) *Cyathodium mehranum* Singh, sp. nov., from Arunachal Pradesh, India. *Miscellanea Bryologica et Lichenologica* 9 (8): 172–177.
- Singh DK (1987a) A new species of *Notothylas* Sull. (Bryophyta) from Nepal. *Journal of the Bombay Natural History Society* 84 (3): 650–653.
- Singh DK (1987b) A new species of *Folioceros* Bharad. (Anthocerotaceae) from Arunachal Pradesh, India. *Bulletin of the Botanical Survey of India* 29: 176–180.
- Singh SK (2011) A new *Rectolejeunea* from Indian botanic garden, India. *Indian Journal of Forestry* 34 (3): 341–344.
- Singh SK (2013) New combinations in *Lejeunea* with a new name to *Otigoniolejeunea indica*. *Phytotaxa* 96 (1): 63–64. doi: 10.11646/phytotaxa.96.1.3
- Singh SK, Barbhuiya HA (2012) Contribution to the hepaticae and anthocerotae of Mizoram V. Three New Taxa of *Frullania* from India. *Taiwania* 57 (2): 106–116.
- Singh SK, Dey M (2012) A new species of *Drepanolejeunea* (Marchantiophyta: Lejeuneaceae) from India. *Nelumbo* 54: 20–23.
- Singh AP, Nath V (2007a) A new *Calypogeia* Raddi from India. *Taiwania* 52 (4): 320–323.
- Singh AP, Nath V (2007b) Hepaticae of Khasi and Jaintia Hills: Eastern Himalayas. Bishen Singh Madendra Pal Singh, Dehra Dun, 382 pp.
- Singh AP, Nath V (2008) A new species of *Trocholejeunea* (Hepaticae: Ptychanthoideae) from Meghalaya, Eastern Himalayas, India. *Journal of Japanese Botany* 83 (1): 1–6.
- Singh DK, Semwal RC (2000) A new species of *Notothylas* Sull. (Bryophyta) from Uttaranchal, India. *Indian Journal of Forestry* 23 (4): 386–389.
- Singh DK, Semwal RC (2001) A new species of *Notothylas* Sull. from Dehradun, India. *Phytotaxonomy* 1: 35–39.
- Singh SK, Singh DK (2005) *Frullania larjiana* (Jungermanniopsida: Frullaniaceae), a new species from India. *Journal of Bryology* 27 (2): 105–108. doi: 10.1179/037366805X53004
- Singh SK, Singh DK (2007a) *Cephalozia schusteri* (Cephaloziaceae, Hepaticae) – a new species from India, with note on the Indian species of the genus. *Lindbergia* 32 (1): 1–4.
- Singh SK, Singh DK (2007b) *Jungermannia indrodayana* (Jungermanniaceae, Hepaticae) – a new species from India. *Cryptogamie, Bryologie* 28 (2): 103–108.
- Singh D, Singh DK (2012) A new species of the genus *Lepidozia* (Marchantiophyta, Lepidoziaceae) from Sikkim, India. *Nova Hedwigia* 94 (1/2): 221–225. doi: 10.1127/0029-5035/2012/0094-0221
- Smith JE, Sowerby J (1800) *English botany*, vol. 10. J. Davis, London, 649–720.
- Smith JE, Sowerby J (1806) *English botany*, vol. 23. J. Davis, London, 1585–1656.
- Smith JE, Sowerby J (1811) *English botany*, vol. 32. J. Davis, London, 2233–2304.
- Smith JE, Sowerby J (1814) *English botany*, vol. 36. J. Davis, London, 2521–2592.
- So ML (1999) Studies on *Plagiochila* sect. *Poeltiae* (Plagiochilaceae, Hepaticae). *Haussknechtia, Beiheft* 9: 347–358.

- So ML (2000a) *Plagiochila* sect. *Contiguae* (Hepaticae) in Australasia and the Pacific, with description of *Plagiochila subjavanica* sp. nov. Australian Systematic Botany 13 (5): 803–815. doi: 10.1071/SB00011
- So ML (2000b) *Plagiochila* sect. *Plagiochila* (Hepaticae) in SE Asia and Melanesia, with description of two new species. New Zealand Journal of Botany 38 (3): 425–432. doi: 10.1080/0028825X.2000.9512694
- So ML (2001a) Recognised species of *Plagiochila* in Australasia and some island groups of the Pacific Ocean. New Zealand Journal of Botany 39 (3): 395–421. doi: 10.1080/0028825X.2001.9512745
- So ML (2001b) On several little known species of *Plagiochila* in Australasia and the Pacific with description of *Plagiochila sublyallii* sp. nov. from Papua New Guinea. New Zealand Journal of Botany 39 (1): 109–114. doi: 10.1080/0028825X.2001.9512718
- So ML (2002a) The genus *Porella* (Porellaceae, Hepaticae) in Australasia and the South Pacific. Systematic Botany 27 (1): 4–13. doi: 10.1043/0363-6445-27.1.4
- So ML (2002b) *Metzgeria submarginata* sp. nov., a “new” species from Australia and New Zealand. New Zealand Journal of Botany 40 (2): 201–205. doi: 10.1080/0028825X.2002.9512783
- So ML (2002c) *Metzgeria* (Hepaticae) in Australasia and the Pacific. New Zealand Journal of Botany 40 (4): 603–627. doi: 10.1080/0028825X.2002.9512818
- So ML (2003) The genus *Herbertus* (Hepaticae) in Australasia and the South Pacific. Systematic Botany 28 (1): 12–23. doi: 10.1043/0363-6445-28.1.12
- So ML (2004) *Metzgeria* (Metzgeriaceae, Marchantiophyta) in Africa. New Zealand Journal of Botany 42 (2): 271–292. doi: 10.1080/0028825X.2004.9512904
- So ML (2005a) *Radula* (Radulaceae, Marchantiophyta) in Hawaii. Journal of the Hattori Botanical Laboratory 98: 175–191.
- So ML (2005b) *Porella* (Porellaceae, Marchantiophyta) in Latin America. New Zealand Journal of Botany 43 (1): 301–321. doi: 10.1080/0028825X.2005.9512956
- So ML (2006) *Radula* (Radulaceae, Marchantiophyta) in the South Pacific. Journal of the Hattori Botanical Laboratory 99: 207–232.
- So ML, Grolle R (2000a) Checklist of *Plagiochila* (Hepaticae) in Asia. Journal of the Hattori Botanical Laboratory 88: 199–243.
- So ML, Grolle R (2000b) Description of *Plagiochila detecta* sp. nov. (Hepaticae) from East Asia based on morphological and RAPD evidence. Nova Hedwigia 71 (3/4): 387–394.
- So ML, Grolle R (2001) On *Plagiochila* subgenus *Plagiochila* section *Abietinae* (Hepaticae). Systematic Botany 26 (3): 459–469. doi: 10.1043/0363-6445-26.3.459
- So ML, Wang J (2006) *Frullania* (Frullaniaceae, Marchantiophyta) in Hawaii. Journal of the Hattori Botanical Laboratory 100: 419–430.
- So ML, Zhu R-L (1998) On six species of the genus *Lejeunea* in China, including one new species. Bryologist 101 (1): 137–143. doi: 10.2307/3244086
- Söderström L, Karttunen K, Hedenäs L (1992) Nomenclatural notes on Fennoscandian bryophytes. Annales Botanici Fennici 29 (2): 119–122.
- Söderström L, Weibull H, Damsholt K (2000) A new species of *Lophozia* (subg. *Protolophozia*) from Fennoscandia. Lindbergia 25 (1): 3–7.

- Söderström L, Urmi E, Váňa J (2002) Distribution of hepaticae and anthocerotae in Europe and Macaronesia. *Lindbergia* 27 (1): 3–47.
- Söderström L, Hagborg A, von Konrat M, Renner MAM (2008) Early Land Plants Today: Liverwort checklist of checklists. *Fieldiana: Botany* (n.ser.) 47: 105–130. doi: 10.3158/0015-0746-47.1.105
- Söderström L, Gradstein SR, Hagborg A (2010a) Checklist of the hornworts and liverworts of Java. *Phytotaxa* 9: 53–149. doi: 10.11646/phytotaxa.9.1.7
- Söderström L, de Roo RT, Hedderson TAJ (2010b) Taxonomic novelties resulting from recent reclassification of the Lophoziaceae/Scapaniaceae clade. *Phytotaxa* 3: 47–53. doi: 10.11646/phytotaxa.3.1.7
- Söderström L, Hagborg A, Pócs T, Sass-Gyarmati A, Brown E, von Konrat MJ, Renner MAM (2011a) Checklist of hornworts and liverworts of Fiji. *Telopea* 13 (3): 405–454.
- Söderström L, Hagborg A, Váňa J, von Konrat M (2011b) Land of wood and water: A checklist of liverworts and hornworts of Jamaica. *Bryologist* 114 (1): 67–91. doi: 10.1639/0007-2745-114.1.67
- Söderström L, Hagborg A, von Konrat MJ (2012a) Notes on Early Land Plants Today. 1. A new name for *Cryptothallus hirsutus*. *Phytotaxa* 65: 43.
- Söderström L, Hagborg A, Crosby MR, von Konrat MJ (2012b) Early Land Plants Today: Index of Liverworts & Hornworts 2009–2010. *Phytotaxa* 63: 21–68.
- Söderström L, Hagborg A, von Konrat MJ (2012c) Notes on Early Land Plants Today. 5. Validation of two *Drepanolejeunea* species. *Phytotaxa* 65: 47–48.
- Söderström L, Hagborg A, von Konrat M (2012d) Notes on Early Land Plants Today. 6. The correct name for *Cephaloziella divaricata* var. *asperifolia*. *Phytotaxa* 65: 49–50.
- Söderström L, von Konrat M, Hagborg A, Séneca A (2012e) Early Land Plants Today – a community driven approach. *Studia Botanica Hungarica* 43: 47–58.
- Söderström L, Hagborg A, von Konrat MJ (2012f) Notes on Early Land Plants Today. 9. Validation of *Riccia gangetica* Ahmad. *Phytotaxa* 65: 57.
- Söderström L, Hagborg A, von Konrat M (2012g) The friendly islands – a checklist of hornworts and liverworts of Tonga. *Polish Botanical Journal* 57 (1): 129–135.
- Söderström L, Váňa J, Hagborg A, von Konrat M (2013a) Notes on Early Land Plants Today. 31. *Lophonardia* replaces *Hypolophozia* (Cephaloziellaceae, Marchantiophyta). *Phytotaxa* 81 (1): 19–21. doi: 10.11646/phytotaxa.81.1.7
- Söderström L, Crandall-Stotler B, Stotler RE, Váňa J, Hagborg A, von Konrat M (2013b) Notes on Early Land Plants Today. 36. Generic treatment of Lophocoleaceae (Marchantiophyta). *Phytotaxa* 97 (2): 36–43. doi: 10.11646/phytotaxa.97.2.3
- Söderström L, Váňa J, Hagborg A, von Konrat M (2013c) Notes on Early Land Plants Today. 35. Notes on Lophoziaceae (Marchantiophyta). *Phytotaxa* 97 (2): 27–35. doi: 10.11646/phytotaxa.97.2.2
- Söderström L, Hagborg A, von Konrat MJ (2013d) Notes on Early Land Plants Today. 19. Validation of two names in *Pellia* (Pelliaceae, Marchantiophyta). *Phytotaxa* 76 (3): 39–40. doi: 10.11646/phytotaxa.76.3.7
- Söderström L, Hagborg A, von Konrat M, Séneca A (2013e) The Guaraní Land – checklist of hornworts (Anthocerotophyta) and liverworts (Marchantiophyta) of Paraguay. *Polish Botanical Journal* 58 (1): 267–277. doi: 10.2478/pbj-2013-0027

- Söderström L, Váňa J, Crandall-Stotler B, Stotler RE, Hagborg A, von Konrat M (2013f) Notes on Early Land Plants Today. 43. New combinations in Lophocoleaceae (Marchantiophyta). *Phytotaxa* 112 (1): 18–32. doi: 10.11646/phytotaxa.112.1.4
- Söderström L, Hagborg A, von Konrat M (2014) Early Land Plants Today: Index of liverworts & hornworts 2011–2012. *Phytotaxa* 170 (2): 61–85. doi: 10.11646/phytotaxa.170.2.1
- Söderström L, Stotler RE, Gradstein SR, Barrie FR, Hagborg A, Crandall-Stotler BJ, von Konrat M (2015a) Notes on Early Land Plants Today. 73. Genera of Lejeuneaceae established in the period 1884–1893: dates of validation and implications. *Phytotaxa* 220 (2): 143–198. doi: <http://dx.doi.org/10.11646/phytotaxa.220.2.4>
- Söderström L, Hagborg A, von Konrat M (2015b) Notes on Early Land Plants Today. 69. Circumscription of Plagiochilaceae (Marchantiophyta) with a preliminary infrageneric subdivision of *Plagiochila*. *Phytotaxa* 208 (1): 75–91. doi: 10.11646/phytotaxa.208.1.8
- Söderström L, Váňa J, Crandall-Stotler B, Hentschel J, Hagborg A, von Konrat MJ (2015c) Notes on Early Land Plants Today. 68. Miscellaneous notes on Marchantiophyta. *Phytotaxa* 202 (1): 69–72. doi: 10.11646/phytotaxa.202.1.10
- Söderström L, Pócs T, Váňa J, Hagborg A (2015d) Notes on Early Land Plants Today. 74. Validations of a few names in Marchantiophyta. *Phytotaxa* 220 (2): 199–200. doi: 10.11646/phytotaxa.220.2.5
- Sofronova EV, Mamontov IuS, Potemkin AD (2013) *Frullania ignatovii* (Porellales, Marchantiophyta) — Novyj vid iz Sibiri [*Frullania ignatovii*, a new species from Siberia]. *Novosti Sistematiki Nizših Rastenij* 47: 334–343.
- Solari SS (1973) Miscelánea briológica (Hepaticae) I. *Boletín de la Sociedad Argentina de Botánica* 15 (2/3): 197–203.
- Solari SS (1976) Miscelánea briológica (Hepaticae). III. *Darwiniana* 20 (3/4): 387–390.
- Solari SS (1981) Miscelánea briológica (Hepaticae). IV. Novedades en Lejeuneaceae. *Comunicaciones del Museo Argentino de Ciencias Naturales “Bernardino Rivadavia” e Instituto Nacional de Investigación de las Ciencias Naturales: Ciencias Botánicas* 2 (11): 67–75.
- Solari SS (1983a) Lejeuneaceae – catálogo de especies andinopatagónicas. *Journal of the Hattori Botanical Laboratory* 54: 533–553.
- Solari SS (1983b) Patagonian bryophytes. 8. On the identity of *Lepicolea scolopendra* (Hook.) Trev. var. *magellanica* Gola and *Sendtnera ochroleuca* (Spreng.) Nees var. *piligera* De Not. *Lindbergia* 9 (2): 86–88.
- Solari SS (1986) Miscelánea briológica (Hepaticae). V. Consideraciones sobre el género *Leptocyphus*. *Cryptogamie: Bryologie, Lichénologie* 7 (3): 219–223.
- Solari SS, Hässel GG (1983) Las hepáticas de Spegazzini, parte I. *Bollettino del Museo Civico di Storia Naturale di Verona* 10: 193–209.
- Sommerfeldt SC (1833) Bidrag til Spitsbergens og Beeren-Eilands flora, efter herbarier, medbragte af M. Keilhaue. *Magazin for Naturvidenskaberne* 11 (2): 234–252.
- Sprengel C (1804) *Anleitung zur Kenntniss der Gewächse, Dritte Sammlung*. Karl August Kümmel, Halle, 374 pp.
- Sprengel C (1809) Observaciones de Jungermanniis aut plane nondum aut minus bene delineatis. *Annalen der Wetterauischen Gesellschaft für die Gesammte Naturkunde* 1: 21–26.
- Sprengel C (1821) *Neue Entdeckungen im ganzen Umfang der Pflanzenkunde, Zweyter Band*. Friedrich Fleischer, Leipzig, 363 pp.

- Sprengel C (1827a) *Systema vegetabilium*. Editio decima sexta, voluminis IV, pars I. Dieterich, Göttingen, 592 pp. doi: 10.5962/bhl.title.822
- Sprengel C (1827b) *Systema vegetabilium*. Editio decima sexta, voluminis IV, pars II. Dieterich, Göttingen, 410 pp. doi: 10.5962/bhl.title.822
- Spruce R (1847) *Hepaticae pyrenaicae*. London, no. 1–77.
- Spruce R (1849) The musci and hepaticae of the Pyrenees (cont.). *Annals and Magazine of Natural History* (ser. 2) 3 (18): 478–503.
- Spruce R (1850) The musci and hepaticae of the Pyrenees. *Transactions of the Botanical Society of Edinburgh* 3 (1/4): 103–216. doi: 10.1080/03746605009467580
- Spruce R (1876a) On *Anomoclada*, a new genus of hepaticae, and on its allied genera, *Odontoschisma* and *Adelanthus* (concluded). *Journal of Botany, British and Foreign* 14: 230–235.
- Spruce R (1876b) On *Anomoclada*, a new genus of hepaticae, and on its allied genera, *Odontoschisma* and *Adelanthus* (continued). *Journal of Botany, British and Foreign* 14: 161–170.
- Spruce R (1881a) On *Marsupella stableri* n. sp. and some allied species of European Hepaticae. *Revue Bryologique* 8 (6): 89–104.
- Spruce R (1881b) Musci praeteriti. *Journal of Botany, British and Foreign* 19: 33–40.
- Spruce R (1882) On *Cephalozia*. Slater, Malton, 99 pp. doi: 10.5962/bhl.title.46289
- Spruce R (1884) Hepaticae amazonicae et andinae. I. *Transactions and Proceedings of the Botanical Society of Edinburgh* 15: 1–308.
- Spruce R (1885) Hepaticae amazonicae et andinae. II. *Transactions and Proceedings of the Botanical Society of Edinburgh* 15: 309–588.
- Spruce R (1887a) *Lejeunea holtii* a new hepatic from Killarney. *Journal of Botany, British and Foreign* 25: 33–39.
- Spruce R (1887b) On a new Irish hepatic. *Journal of Botany, British and Foreign* 25: 209–211.
- Spruce R (1889) Hepaticae novae americanae tropicae et aliae. *Bulletin de la Société Botanique de France* (Congrès de Botanique) 36: clxxxix–ccvii.
- Spruce R (1890) Hepaticae boliviana, in Andibus boliviana orientalis. *Memoirs of the Torrey Botanical Club* 1 (3): 113–140.
- Srivastava KP (1960) On a species of *Anthoceros*, *A. satpurensis* Sriv. sp. nov. *Proceedings of the Indian Science Congress Association* 47 (3): 337–338.
- Srivastava SN, Amakawa T (1991) A new species of *Jungermannia* from western Himalayas, India. *Proceedings of the National Academy of Sciences of India. Section B, Biological Sciences* 61 (2): 205–208.
- Srivastava SC, Asthana AK (1989) Two species of *Folioceros* from India, including *F. kashyapii*, sp. nov. *Bryologist* 92 (2): 219–224. doi: 10.2307/3243949
- Srivastava SN, Rai M (2011) *Frullania largiana* var. *didybatii* var. nov. from Kumaun region in Western Himalaya. *Geophytology* 41 (1/2): 109–112.
- Srivastava SC, Rawat KK (2001) *Metzgeria sikkimensis* sp. novo from Sikkim Himalayas, India. *Geophytology* 31 (1/2): 71–73.
- Srivastava SC, Sharma D (1990) A new species of *Jubula* Dumort. from Milam in Kumaon (western Himalaya). *Proceedings of the Indian Academy of Sciences. Plant Sciences* 100 (2): 85–89.

- Srivastava SC, Singh P (1995) Some species of *Jungermannia* subgenus *Solenostoma* (Mitt.) Amak. from eastern Himalaya. In: Kumar SS (Ed.) Recent studies in Indian bryophytes. Bishen Singh Madendra Pal Singh, Dehra Dun, 147–156.
- Srivastava SC, Srivastava G (1989a) Two species of *Cololejeunea* from South India. Proceedings of the Indian Academy of Sciences. Plant Sciences 99 (2): 83–90.
- Srivastava SC, Srivastava A (1989b) The genus *Heteroscyphus* Schiffn. in the western Himalayas. Lindbergia 15 (6): 195–202.
- Srivastava SC, Srivastava A (1993) A remarkable *Scapania* (Scapaniaceae) from Manali (Himachal Pradesh: Western Himalaya). Journal of the Indian Botanical Society 72: 237–240.
- Srivastava A, Srivastava SC (2002) Indian Geocalycaceae (Hepaticae). A taxonomic study. Bishen Singh Madendra Pal Singh, Dehra Dun, 246 pp.
- Srivastava SC, Srivastava S (2004) Two new *Metzgerias* from peninsular India. Phytotaxonomy 4: 79–86.
- Srivastava SC, Udar R (1976) Indian Aneuraceae. A monographic study. Biological Memoirs 1 (1/2): 121–154.
- Srivastava SC, Udar R (1977) *Riccardia perssonii* sp. nov. and *R. tenuicostata* Schiffn., two hepatics new to India. Lindbergia 4 (1/2): 127–131.
- Srivastava SC, Verma PK (2004) Genus *Arachmiopsis* Spruce – new to India with *A. indica* sp. nov. as new to science. National Academy Science Letters 27 (7/8): 269–272.
- Srivastava SC, Kumar D, Sharma D (1988) A new *Lepidozia* from eastern Himalayas, India. Cryptogamie: Bryologie, Lichénologie 9 (3): 235–240.
- Srivastava SC, Srivastava S, Dharma D (2003) A new *Jungermannia* (*Solenostoma*) from the Valley of Flowers, India. Lindbergia 28 (3): 129–133.
- Srivastava SC, Rawat KK, Verma PK (2006) An interesting *Plagiochila* from Kodaikanal (India). National Academy Science Letters 29 (7/8): 267–270.
- Srivastava S, Srivastava SC, Rawat KK (2013) Status of family Lophoziaceae (Hepaticae) in India. Nelumbo 55: 113–152.
- Stafleu FA, Cowan R (1976–2009) Taxonomic literature: a selective guide to botanical publications and collections with dates, commentaries and types (TL2). Regnum Vegetabile 94, 98, 105, 110, 112, 115, 116, 125, 130, 132, 134, 135, 137, 149, 150. doi: 10.5962/bhl.title.48631
- Stech M, Konstantinova NA, Frey W (2002) Molecular divergence between *Treubia* Goebel and *Apotreubia* S. Hatt. & Mizut., the two genera of the archaic liverwort class Treubiopsida (Hepaticophytina): Studies in austral temperate rain forest bryophytes 19. Nova Hedwigia 75 (1/2): 91–100. doi: 10.1127/0029-5035/2002/0075-0091
- Steere WC, Inoue H (1974) *Fossombronina alaskana*, a new hepatic from arctic Alaska. Bryologist 77 (1): 63–71. doi: 10.2307/3241778
- Steere WC, Inoue H (1978) The hepaticae of arctic Alaska. Journal of the Hattori Botanical Laboratory 44: 251–345.
- Steere WC, Schuster RM (1960) The hepatic genus *Ascidiota* Massalongo new to North America. Bulletin of the Torrey Botanical Club 87 (3): 209–215. doi: 10.2307/2482767
- Ștefănuț S (2008) The hornwort and liverwort atlas of Romania. Ars Docendi, Bucharest, 510 pp.
- Stephani F (1883) Zwei neue Lebermoose. Hedwigia 22 (10): 145–148.
- Stephani F (1884a) Die Gattung *Radula* (Fortsetzung). Hedwigia 23 (10): 145–159.

- Stephani F (1884b) Die Gattung *Radula*. Hedwigia 23 (8): 113–137.
- Stephani F (1884c) Die Gattung *Radula* (Fortsetzung). Hedwigia 23 (9): 129–137.
- Stephani F (1885a) Hepaticarum species novae vel minus cognitae. III. Hedwigia 24 (5): 214–218.
- Stephani F (1885b) Hepaticarum species novae vel minus cognitae. IV. Hedwigia 24 (6): 246–250.
- Stephani F (1885c) Hepaticae (in Contributiones para o estudo da Flora d’Africa). Boletim da Sociedade Broteriana 4: 170–184.
- Stephani F (1885d) Di una nuova specie di *Plagiochila* di F. Stephani. Annuario del Reale Istituto Botanico di Roma 2: 86.
- Stephani F (1885e) Neue und kritische Arten der Gattung *Riccia*. Hedwigia 24 (1): 2–7.
- Stephani F (1885f) Hepaticarum species novae vel minus cognitae 2. Hedwigia 24 (4): 166–168.
- Stephani F (1886a) Hepaticae von der Halbinsel Alaska, gesammelt 1881/82 von den Doctoren Arthur und Aurel Krause. Botanische Jahrbücher für Systematik, Pflanzengeschichte und Pflanzengeographie 8 (2): 96–99.
- Stephani F (1886b) Hepaticarum species novae vel minus cognitae. VI. Hedwigia 25 (4): 133–134.
- Stephani F (1886c) Hepaticae species novae vel minus cognitae VIII. Hedwigia 25 (6): 233–249.
- Stephani F (1886d) Hepaticae africanae. Botanische Jahrbücher für Systematik, Pflanzengeschichte und Pflanzengeographie 8 (2): 79–95.
- Stephani F (1886e) Hepaticae species novae vel minus cognitae V. Hedwigia 25 (1): 5–9.
- Stephani F (1886f) Hepaticarum species novae vel minus cognitae. VII. Hedwigia 25 (5): 202–208.
- Stephani F (1887) Ueber einige Lebermoose Portugals. Hedwigia 26 (1): 1–6.
- Stephani F (1888a) Hepaticae africanae. Hedwigia 27 (2): 59–63.
- Stephani F (1888b) Westindische Hepaticae II. Hepaticae ex insulis St. Domingo et Dominica, quas collegit Eggers. Hedwigia 27 (11/12): 299–302.
- Stephani F (1888c) Westindische Hepaticae I. Hepaticae portoricenses. Hedwigia 27 (11/12): 276–299.
- Stephani F (1888d) Hepaticae africanae. Hedwigia 27 (3/4): 106–113.
- Stephani F (1889a) Hepaticae australiae 1. Hedwigia 28 (2): 128–135.
- Stephani F (1889b) Deux nouvelles espèces du genre *Riccia*. Revue Bryologique 16 (5): 65–67.
- Stephani F (1889c) Hepaticae australiae III. Hedwigia 28 (4): 257–278.
- Stephani F (1889d) Hepaticae australiae II. Hedwigia 28 (3): 155–175.
- Stephani F (1890a) Die Gattung *Lejeunea* im Herbarium Lindenberg. Hedwigia 29 (1): 1–23.
- Stephani F (1890b) Die Gattung *Lejeunea* im Herbarium Lindenberg (Fortsetzung). Hedwigia 29 (2): 68–99.
- Stephani F (1890c) Hepaticae africanae novae in insulis Bourbon, Maurice et Madagascar lectae. Botanical Gazette 15 (11): 281–292. doi: 10.1086/326585
- Stephani F (1890d) Die Gattung *Lejeunea* im Herbarium Lindenberg (Schluss). Hedwigia 29 (3): 133–142.
- Stephani F (1891a) Hepaticae africanae. Hedwigia 30 (5): 201–217.
- Stephani F (1891b) Hepaticae. In: Renauld F, Cardot J (Eds) Musci exotici novi vel minus cogniti. II. Bulletin de la Société Royale de Botanique de Belgique, Comptes-rendus des Séances 30 (2): clxxi–ccvii.
- Stephani F (1891c) Hepaticae africanae. Hedwigia 30 (6): 265–272.

- Stephani F (1892a) *Hepaticae novae caucasicae*. *Botanisches Centralblatt* 50 (3): 70–72.
- Stephani F (1892b) A revision of Colenso's hepaticae with descriptions of new species collected by him. *Journal of the Linnean Society. Botany* 29 (201): 263–280. doi: 10.1111/j.1095-8339.1892.tb02036.x
- Stephani F (1892c) *Hepaticae*. In: Renauld F, Cardot J (Eds) *Musci exotici novi vel minus cogniti. III*. *Bulletin de la Société Royale de Botanique de Belgique, Comptes-rendus des Séances* 31: 100–123.
- Stephani F (1892d) *Hepaticae africanae*. *Hedwigia* 31 (3): 120–130.
- Stephani F (1892e) *Hepaticae*. In: Durand T, Pittier HF (Eds) *Primitiae florum costaricensis*, vol. 1, fasc. 2. *Jardin Botanique de l'État*. *Jardin Botanique de l'État* : 0–151. doi: 10.5962/bhl.title.51686
- Stephani F (1892f) The North American *Lejeuneae*. *Botanical Gazette* 17 (6): 170–173. doi: 10.1086/326806
- Stephani F (1892g) *Hepaticae africanae*. *Hedwigia* 31 (4): 165–174.
- Stephani F (1893a) *Hepaticarum species novae. Pars I*. *Hedwigia* 32 (1): 17–29.
- Stephani F (1893b) *Hepaticarum species novae. Pars II*. *Hedwigia* 32 (3): 137–147.
- Stephani F (1893c) *Hepaticarum species novae III*. *Hedwigia* 32 (4): 204–214.
- Stephani F (1893d) *Hepaticarum species novae IV*. *Hedwigia* 32 (5): 315–327.
- Stephani F (1893e) *Hepaticae*. In: Renauld F, Cardot J (Eds) *Musci exotici novi vel minus cogniti. IV*. *Bulletin de la Société Royale de Botanique de Belgique, Comptes-rendus des Séances* 32 (2): 8–40.
- Stephani F (1894a) *Hepaticarum species novae V*. *Hedwigia* 33 (1): 1–10.
- Stephani F (1894b) *Hepaticae chinenses*. *Mémoires de la Société Nationale des Sciences Naturelles et Mathématiques de Cherbourg* 29: 207–228.
- Stephani F (1894c) Eine neue *Lebermoos-Gattung*. *Österreichische Botanische Zeitschrift* 44 (1): 1–5. doi: 10.1007/BF01789755
- Stephani F (1894d) *Hepaticarum species novae VI*. *Hedwigia* 33 (3): 137–169.
- Stephani F (1895a) *Hepaticae africanae*. *Botanische Jahrbücher für Systematik, Pflanzengeschichte und Pflanzengeographie* 20 (3): 299–321.
- Stephani F (1895b) *Hepaticarum species novae VIII*. *Hedwigia* 34 (5): 232–253.
- Stephani F (1895c) *Hepaticarum species novae VII*. *Hedwigia* 34 (2): 43–65.
- Stephani F (1895d) *Hepaticae*. In: Engler A (Ed.) *Die Pflanzenwelt Ost-Afrikas und der Nachbargebiete*. Theil C. Verzeichniss der bis jetzt aus Ost-Afrika bekannt gewordenen Pflanzen. Dietrich Reimer Verlag, Berlin, 62–66. doi: 10.5962/bhl.title.587
- Stephani F (1896a) *Hepaticae*. In: Reinecke F (Ed.) *Die Flora der Samoa Inseln*. *Botanische Jahrbücher für Systematik, Pflanzengeschichte und Pflanzengeographie* 23 (1/2, 3): 237–368.
- Stephani F (1896b) *Hepaticarum species novae IX*. *Hedwigia* 35 (3): 73–140.
- Stephani F (1897a) Die *Lebermoose* der ersten Regnell'schen expedition nach Südamerika. *Bihang till Kongliga Svenska Vetenskaps-Akademiens Handlingar* 23 (III, 2): 1–36.
- Stephani F (1897b) *Hepaticae japonicae*. *Bulletin de l'Herbier Boissier* 5 (2): 76–108.
- Stephani F (1897c) *Hepaticae sandvicenses*. *Bulletin de l'Herbier Boissier* 5 (10): 840–849.
- Stephani F (1898a) *Species hepaticarum 1*. *Bulletin de l'Herbier Boissier* 6 (4): 309–343. doi: 10.5962/bhl.title.95494

- Stephani F (1898b) *Species hepaticarum* 1. *Bulletin de l'Herbier Boissier* 6 (5): 361–378. doi: 10.5962/bhl.title.95494
- Stephani F (1898c) *Species hepaticarum* 1. *Bulletin de l'Herbier Boissier* 6 (10): 757–799. doi: 10.5962/bhl.title.95494
- Stephani F (1899a) *Species hepaticarum* 1. *Bulletin de l'Herbier Boissier* 7 (2): 84–110. doi: 10.5962/bhl.title.95494
- Stephani F (1899b) *Species hepaticarum* 1. *Bulletin de l'Herbier Boissier* 7 (3): 198–225. doi: 10.5962/bhl.title.95494
- Stephani F (1899c) *Species hepaticarum* 1. *Bulletin de l'Herbier Boissier* 7 (5): 381–407. doi: 10.5962/bhl.title.95494
- Stephani F (1899d) *Species hepaticarum* 1. *Bulletin de l'Herbier Boissier* 7 (7): 518–533. doi: 10.5962/bhl.title.95494
- Stephani F (1899e) *Species hepaticarum* 1. *Bulletin de l'Herbier Boissier* 7 (9): 655–695. doi: 10.5962/bhl.title.95494
- Stephani F (1899f) *Species hepaticarum* 1. *Bulletin de l'Herbier Boissier* 7 (10): 727–764. doi: 10.5962/bhl.title.95494
- Stephani F (1899g) *Species hepaticarum* 1. *Bulletin de l'Herbier Boissier* 7 (12): 927–956. doi: 10.5962/bhl.title.95494
- Stephani F (1899h) *Hepaticae*. In: Renauld F, Cardot J (Eds) *Musci exotici novi vel minus cogniti*. IX. *Bulletin de la Société Royale de Botanique de Belgique* 38 (1): 7–48.
- Stephani F (1900a) *Species hepaticarum* 1. *Mémoires de l'Herbier Boissier* 11: 1–46. doi: 10.5962/bhl.title.95494
- Stephani F (1900b) *Beiträge zur Lebermoosflora Westpatagoniens und des südlichen Chiles*. *Bihang till Kongliga Svenska Vetenskaps-Akademiens Handlingar* 26 (III, 6): 1–69.
- Stephani F (1900c) *Species hepaticarum* 1. *Mémoires de l'Herbier Boissier* 11: 1–49. doi: 10.5962/bhl.title.95494
- Stephani F (1901a) *Species hepaticarum* 2. *Bulletin de l'Herbier Boissier* (sér. 2) 1 (5): 477–521. doi: 10.5962/bhl.title.95494
- Stephani F (1901b) *Lebermoose der Magellansländer, mit einer Einleitung von P. Dusén*. *Bihang till Kongliga Svenska Vetenskaps-Akademiens Handlingar* 26 (III, 17): 1–36.
- Stephani F (1901c) *Species hepaticarum* 2. *Bulletin de l'Herbier Boissier* (sér. 2) 1 (10): 1022–1151. doi: 10.5962/bhl.title.95494
- Stephani F (1901d) *Hepatics*. In: Hiern WP (Ed.) *Catalogue of the African Plants collected by Dr. Friedrich Welwitsch in 1853–61*. Volume II, Part. II. *Cryptogamia*. British Museum (Natural History), London, 310–321.
- Stephani F (1901e) *Hepaticae*. In: Brown NE (Ed.) *Reports on two botanical collections made by Messrs, F. V. McConnell & J. J. Quelch at Mount Roraima in British Guiana*. *Transactions of the Linnean Society of London*. *Botany* 6 (1): 1–107.
- Stephani F (1901f) *Hepaticae novae Dussianae*. In: Urban I (Ed.) *Symbolae antillanae*, Vol. 2. *Bornträger*, Leipzig, 469–472. doi: 10.5962/bhl.title.144
- Stephani F (1901g) *Hepaticae* (in: Engler HGA, *Beitrag zur flora von Afrika XXII*). In: Engler A (Ed.) *Beitrag zur flora von Afrika*. XXII. *Berichte über die botanischen Ergebnisse der Nyassa-See- und Kinga-Gebirgs-Expedition*. *Botanische Jahrbücher für Systematik, Pflanzengeschichte und Pflanzengeographie* 30 (2): 239–445.

- Stephani F (1901h) *Species hepaticarum* 2. *Bulletin de l'Herbier Boissier (sér. 2)* 1 (2): 140–177.
doi: 10.5962/bhl.title.95494
- Stephani F (1902a) *Species hepaticarum* 2. *Bulletin de l'Herbier Boissier (sér. 2)* 2 (8): 657–688.
doi: 10.5962/bhl.title.95494
- Stephani F (1902b) *Hepaticae*. In: Schmidt J (Ed.) *Flora of Koh Chang*. V. *Botanisk Tidsskrift* 24 (3): 241–280.
- Stephani F (1902c) *Species hepaticarum* 2. *Bulletin de l'Herbier Boissier (sér. 2)* 2 (1): 35–48.
doi: 10.5962/bhl.title.95494
- Stephani F (1902d) *Species hepaticarum* 2. *Bulletin de l'Herbier Boissier (sér. 2)* 2 (2): 157–179.
doi: 10.5962/bhl.title.95494
- Stephani F (1902e) *Hepaticae novae Dussianae II*. In: Urban I (Ed.) *Symbolae antillanae*, Vol. 3. *Bornträger*, Leipzig, 275–279. doi: 10.5962/bhl.title.144
- Stephani F (1902f) *Species hepaticarum* 2. *Bulletin de l'Herbier Boissier (sér. 2)* 2 (5): 454–474.
doi: 10.5962/bhl.title.95494
- Stephani F (1902g) *Species hepaticarum* 2. *Bulletin de l'Herbier Boissier (sér. 2)* 2 (10): 857–888.
doi: 10.5962/bhl.title.95494
- Stephani F (1902h) *Species hepaticarum* 2. *Bulletin de l'Herbier Boissier (sér. 2)* 2 (12): 969–987.
doi: 10.5962/bhl.title.95494
- Stephani F (1903a) *Species hepaticarum* 2. *Bulletin de l'Herbier Boissier (sér. 2)* 3 (11): 959–974.
doi: 10.5962/bhl.title.95494
- Stephani F (1903b) *Species hepaticarum* 2. *Bulletin de l'Herbier Boissier (sér. 2)* 3 (2): 98–129.
doi: 10.5962/bhl.title.95494
- Stephani F (1903c) *Species hepaticarum* 2. *Bulletin de l'Herbier Boissier (sér. 2)* 3 (4): 326–341.
doi: 10.5962/bhl.title.95494
- Stephani F (1903d) *Species hepaticarum* 2. *Bulletin de l'Herbier Boissier (sér. 2)* 3 (6): 522–537.
doi: 10.5962/bhl.title.95494
- Stephani F (1903e) *Species hepaticarum* 2. *Bulletin de l'Herbier Boissier (sér. 2)* 3 (7): 596–611.
doi: 10.5962/bhl.title.95494
- Stephani F (1903f) *Species hepaticarum* 2. *Bulletin de l'Herbier Boissier (sér. 2)* 3 (10): 873–888.
doi: 10.5962/bhl.title.95494
- Stephani F (1904a) *Species hepaticarum* 2. *Bulletin de l'Herbier Boissier (sér. 2)* 4 (10): 973–988.
doi: 10.5962/bhl.title.95494
- Stephani F (1904b) *Species hepaticarum* 2. *Bulletin de l'Herbier Boissier (sér. 2)* 4 (6): 586–601.
doi: 10.5962/bhl.title.95494
- Stephani F (1904c) *Species hepaticarum* 2. *Bulletin de l'Herbier Boissier (sér. 2)* 4 (8): 775–790.
doi: 10.5962/bhl.title.95494
- Stephani F (1904d) *Hepaticae*. In: Renauld F, Cardot J (Ed.) *Musci exotici novi vel minus cogniti*. X. *Bulletin de la Société Royale de Botanique de Belgique* 41 (1): 7–122.
- Stephani F (1904e) *Species hepaticarum* 2. *Bulletin de l'Herbier Boissier (sér. 2)* 4 (4): 345–360.
doi: 10.5962/bhl.title.95494
- Stephani F (1904f) *Species hepaticarum* 2. *Bulletin de l'Herbier Boissier (sér. 2)* 4 (2): 153–168.
doi: 10.5962/bhl.title.95494
- Stephani F (1904g) *Species hepaticarum* 2. *Bulletin de l'Herbier Boissier (sér. 2)* 4 (1): 18–32.
doi: 10.5962/bhl.title.95494

- Stephani F (1904h) *Species hepaticarum* 2. Bulletin de l'Herbier Boissier (sér. 2) 4 (12): 1197–1214. doi: 10.5962/bhl.title.95494
- Stephani F (1904i) *Hepaticarum species novae* X. Hedwigia 44 (1): 14–15.
- Stephani F (1905a) *Hepaticae amazonicae ab Ernesto Ule collectae*. Hedwigia 44 (4): 223–229.
- Stephani F (1905b) *Species hepaticarum* 3. Bulletin de l'Herbier Boissier (sér. 2) 5 (12): 1129–1144. doi: 10.5962/bhl.title.95494
- Stephani F (1905c) *Tableau des hépatiques*. In: Dusén P (Ed.) *Sur la flore de la Serra do Itatiaia au Brésil*. Archivos do Museu Nacional do Rio de Janeiro 13: 1–119.
- Stephani F (1905d) *Species hepaticarum* 2. Bulletin de l'Herbier Boissier (sér. 2) 5 (2): 175–190. doi: 10.5962/bhl.title.95494
- Stephani F (1905e) *Hepaticae gesammelt von C. Skottsberg während der schwedischen Südpolarexpedition, 1901–1903*. Wissenschaftliche Ergebnisse der Schwedischen Südpolar-Expedition 1901–1903 4 (1): 1–11.
- Stephani F (1905f) *Species hepaticarum* 2. Bulletin de l'Herbier Boissier (sér. 2) 5 (10): 917–946. doi: 10.5962/bhl.title.95494
- Stephani F (1905g) *Species hepaticarum* 2. Bulletin de l'Herbier Boissier (sér. 2) 5 (9): 885–900. doi: 10.5962/bhl.title.95494
- Stephani F (1905h) *Hepaticae species novae* XI. Hedwigia 44 (2): 72–75.
- Stephani F (1905i) *Species hepaticarum* 2. Bulletin de l'Herbier Boissier (sér. 2) 5 (8): 736–751. doi: 10.5962/bhl.title.95494
- Stephani F (1905j) *Species hepaticarum* 2. Bulletin de l'Herbier Boissier (sér. 2) 5 (4): 351–366. doi: 10.5962/bhl.title.95494
- Stephani F (1906a) *Species hepaticarum* 3. Bulletin de l'Herbier Boissier (sér. 2) 6 (5): 377–392. doi: 10.5962/bhl.title.95494
- Stephani F (1906b) *Zwei neue irländische Plagiochilen*. Hedwigia 45 (4): 213–214.
- Stephani F (1906c) *Species hepaticarum* 3. Bulletin de l'Herbier Boissier (sér. 2) 6 (11): 935–966. doi: 10.5962/bhl.title.95494
- Stephani F (1906d) *Species hepaticarum* 3. Bulletin de l'Herbier Boissier (sér. 2) 6 (10): 872–889. doi: 10.5962/bhl.title.95494
- Stephani F (1906e) *Species hepaticarum* 3. Bulletin de l'Herbier Boissier (sér. 2) 6 (9): 781–796. doi: 10.5962/bhl.title.95494
- Stephani F (1906f) *Species hepaticarum* 3. Bulletin de l'Herbier Boissier (sér. 2) 6 (7): 535–550. doi: 10.5962/bhl.title.95494
- Stephani F (1906g) *Species hepaticarum* 3. Bulletin de l'Herbier Boissier (sér. 2) 6 (3): 217–232. doi: 10.5962/bhl.title.95494
- Stephani F (1906h) *Species hepaticarum* 3. Bulletin de l'Herbier Boissier (sér. 2) 6 (8): 649–664. doi: 10.5962/bhl.title.95494
- Stephani F (1907a) *Hepaticae*. In: Reching KH (Ed.) *Botanische und zoologische Ergebnisse einer wissenschaftlichen Forschungsreise nach den Samoainseln*. I. Teil. Denkschriften der Akademie der Wissenschaften in Wien. Mathematisch-Naturwissenschaftliche Klasse 81: 197–317. doi: 10.5962/bhl.title.12030
- Stephani F (1907b) *Species hepaticarum* 3. Bulletin de l'Herbier Boissier (sér. 2) 7 (10): 837–852. doi: 10.5962/bhl.title.95494

- Stephani F (1907c) *Species hepaticarum* 3. Bulletin de l'Herbier Boissier (sér. 2) 7 (1): 59–72. doi: 10.5962/bhl.title.95494
- Stephani F (1907d) *Species hepaticarum* 3. Bulletin de l'Herbier Boissier (sér. 2) 7 (4): 297–312. doi: 10.5962/bhl.title.95494
- Stephani F (1907e) *Species hepaticarum* 3. Bulletin de l'Herbier Boissier (sér. 2) 7 (8): 683–698. doi: 10.5962/bhl.title.95494
- Stephani F (1908a) *Species hepaticarum* 3. Bulletin de l'Herbier Boissier (sér. 2) 8 (11): 837–866. doi: 10.5962/bhl.title.95494
- Stephani F (1908b) *Species hepaticarum* 3. Bulletin de l'Herbier Boissier (sér. 2) 8 (12): 941–966. doi: 10.5962/bhl.title.95494
- Stephani F (1908c) *Species hepaticarum* 3. Bulletin de l'Herbier Boissier (sér. 2) 8 (10): 745–776. doi: 10.5962/bhl.title.95494
- Stephani F (1908d) *Species hepaticarum* 3. Bulletin de l'Herbier Boissier (sér. 2) 8 (9): 661–696. doi: 10.5962/bhl.title.95494
- Stephani F (1908e) *Species hepaticarum* 3. Bulletin de l'Herbier Boissier (sér. 2) 8 (8): 561–608. doi: 10.5962/bhl.title.95494
- Stephani F (1908f) *Species hepaticarum* 3. Bulletin de l'Herbier Boissier (sér. 2) 8 (7): 483–514. doi: 10.5962/bhl.title.95494
- Stephani F (1908g) *Species hepaticarum* 3. Bulletin de l'Herbier Boissier (sér. 2) 8 (6): 426–436. doi: 10.5962/bhl.title.95494
- Stephani F (1908h) *Species hepaticarum* 3. Bulletin de l'Herbier Boissier (sér. 2) 8 (3): 205–220. doi: 10.5962/bhl.title.95494
- Stephani F (1908i) *Species hepaticarum* 3. Bulletin de l'Herbier Boissier (sér. 2) 8 (2): 125–148. doi: 10.5962/bhl.title.95494
- Stephani F (1908j) *Species hepaticarum* 3. Bulletin de l'Herbier Boissier (sér. 2) 8 (4): 267–282. doi: 10.5962/bhl.title.95494
- Stephani F (1908k) *Species hepaticarum* 3. Bulletin de l'Herbier Boissier (sér. 2) 8 (1): 49–64. doi: 10.5962/bhl.title.95494
- Stephani F (1908l) Hépatiques de la Nouvelle-caledonie et du Tonkin. Revue Bryologique 35 (2): 28–35.
- Stephani F (1909a) *Species hepaticarum* 3. George & Cie, Genève & Bale, 517–693. doi: 10.5962/bhl.title.95494
- Stephani F (1909b) *Hepaticae mexicanae novae*. Revue Bryologique 36 (6): 138–140.
- Stephani F (1909c) *Dendroceros*, eine Gattung der Lebermoose. Sitzungsberichte der Naturforschenden Gesellschaft zu Leipzig 36: 11–20.
- Stephani F (1909d) *Species hepaticarum* 4. George & Cie, Genève & Bale, 1–96. doi: 10.5962/bhl.title.95494
- Stephani F (1910a) *Hepaticae*. In: Rechanger KH (Ed.) Botanische und zoologische Ergebnisse einer wissenschaftlichen Forschungsreise nach den Samoainseln. III. Teil. Denkschriften der Akademie der Wissenschaften in Wien. Mathematisch-Naturwissenschaftliche Klasse 85: 175–432.
- Stephani F (1910b) *Species hepaticarum* 4. George & Cie, Genève & Bale, 97–448. doi: 10.5962/bhl.title.95494

- Stephani F (1911a) Hepaticae. In: Mildbraed J (Ed.) *Wissenschaftliche Ergebnisse der Deutschen Zentral-Afrika-Expedition, 1907-1908. Band II: Botanik, Lief. 2.* Klinkhart & Biermann, Leipzig, 111–134. doi: 10.5962/bhl.title.7048
- Stephani F (1911b) *Botanische Ergebnisse der schwedischen Expedition nach Patagonien und dem Feuerlande 1907–1909. II. Die Lebermoose.* Kungliga Svenska Vetenskapsakademiens Handlingar (n.ser.) 46 (9): 1–92.
- Stephani F (1911c) Eine neue Gattung der Hepaticae. *Hedwigia* 51 (1): 61–64.
- Stephani F (1911d) Hepaticae samoanae, II Nachtrag. In: Rechinger KH (Ed.) *Botanische und zoologische Ergebnisse einer wissenschaftlichen Forschungsreise nach den Samoainseln. IV. Teil. Denkschriften der Akademie der Wissenschaften in Wien. Mathematisch-Naturwissenschaftliche Klasse* 88: 1–65.
- Stephani F (1911e) *Species hepaticarum* 4. George & Cie, Genève & Bale, 449–752. doi: 10.5962/bhl.title.95494
- Stephani F (1912a) Hepaticae. In: Schröder B (Ed.) *Zellpflanzen Ostafrikas, gesammelt auf der Akademischen Studienfahrt 1910.* *Hedwigia* 52 (5): 288–315.
- Stephani F (1912b) *Species hepaticarum* 4. George & Cie, Genève & Bale, 753–824. doi: 10.5962/bhl.title.95494
- Stephani F (1912c) *Species hepaticarum* 5. George & Cie, Genève & Bale, 1–176. doi: 10.5962/bhl.title.95494
- Stephani F (1913a) *Species hepaticarum* 5. George & Cie, Genève & Bale, 177–448. doi: 10.5962/bhl.title.95494
- Stephani F (1913b) Hepaticae. In: Brunthaler J (Ed.) *Ergebnisse einer botanischen Forschungsreise nach Deutsch-Ostafrika und Südafrika (Kapland, Natal und Rhodesien). I Theil. Denkschriften der Kaiserlichen Akademie der Wissenschaften. Mathematisch-Naturwissenschaftliche Klasse* 88: 711–744.
- Stephani F (1914a) Six new liverworts. *Leaflets of Philippine Botany* 6: 2287–2290.
- Stephani F (1914b) *Species hepaticarum* 5. George & Cie, Genève & Bale, 449–704. doi: 10.5962/bhl.title.95494
- Stephani F (1914c) Hepaticae. In: Sarasin F, Roux J (Eds) *Nova Caledonia, Forschungen in Neu-Caledonien und auf den Loyalty-Inseln, B. Botanik* 1. C. W. Kreidels Verlag, Weisbaden, 19–0.
- Stephani F (1915a) Nachtrag zu dem Hepaticae der Samoainseln. In: Rechinger KH (Ed.) *Botanische und zoologische Ergebnisse einer wissenschaftlichen Forschungsreise nach den Samoainseln. VI. Teil. Denkschriften der Akademie der Wissenschaften in Wien. Mathematisch-Naturwissenschaftliche Klasse* 91: 1–75.
- Stephani F (1915b) *Species hepaticarum* 5. George & Cie, Genève & Bale, 705–832. doi: 10.5962/bhl.title.95494
- Stephani F (1916a) Hepaticae. In: Herzog T (Ed.) *Die Bryophyten meiner zweiten Reise durch Bolivia.* *Bibliotheca Botanica* 87: 1–347.
- Stephani F (1916b) *Species hepaticarum* 5. George & Cie, Genève & Bale, 833–1008. doi: 10.5962/bhl.title.95494
- Stephani F (1917a) *Species hepaticarum* 6. George & Cie, Genève & Bale, 1–128. doi: 10.5962/bhl.title.95494

- Stephani F (1917b) Species hepaticarum 5. George & Cie, Genève & Bale, 1009–1044. doi: 10.5962/bhl.title.95494
- Stephani F (1918) Species hepaticarum 6. George & Cie, Genève & Bale, 129–176. doi: 10.5962/bhl.title.95494
- Stephani F (1921) Species hepaticarum 6. George & Cie, Genève & Bale, 177–240. doi: 10.5962/bhl.title.95494
- Stephani F (1922) Species hepaticarum 6. George & Cie, Genève & Bale, 241–368. doi: 10.5962/bhl.title.95494
- Stephani F (1923) Species hepaticarum 6. George & Cie, Genève & Bale, 369–432. doi: 10.5962/bhl.title.95494
- Stephani F (1924) Species hepaticarum 6. George & Cie, Genève & Bale, 433–622. doi: 10.5962/bhl.title.95494
- Stephani F, Watts WW (1914) Hepaticae australes. Journal and Proceedings of the Royal Society of New South Wales 48 (1/2): 94–135.
- Stotler RE (1969) The genus *Frullania* subgenus *Frullania* in Latin America. Nova Hedwigia 18: 397–555.
- Stotler RE, Crandall-Stotler BJ (1977) A checklist of the liverworts and hornworts of North America. Bryologist 80 (3): 405–428. doi: 10.2307/3242017
- Stotler RE, Crandall-Stotler B (2005) A revised classification of the Anthocerotophyta and a checklist of the hornworts of North America, north of Mexico. Bryologist 108 (1): 16–26. doi: 10.1639/0007-2745(2005)108[16:ARCOTA]2.0.CO;2
- Stotler RE, Crotz DK (1983) On *Mnium trichomanis* Linnaeus (Hepatophyta). Taxon 32 (1): 64–75. doi: 10.2307/1219851
- Stotler RE, Bray JR Jr, Cargill DC, Krayesky D, Crandall-Stotler BJ (2003) Typifications in the genus *Fossombronia* (Marchantiophyta). Bryologist 106 (1): 130–142. doi: 10.1639/0007-2745(2003)106[0130:TITGFM]2.0.CO;2
- Stotler RE, Doyle WT, Crandall-Stotler BJ (2005) *Phymatoceros* Stotler, W. T. Doyle & Crand.-Stotl., gen. nov. (Anthocerotophyta). Phytologia 87 (2): 113–116.
- Stotler RE, Crandall-Stotler BJ, Bray JR Jr (2010) *Fossombronia marshii* (Marchantiophyta), a new liverwort species from Arkansas. Phytologia 92 (2): 230–232.
- Sukkharak P (2014) Studies on the genus *Mastigolejeunea* (Marchantiophyta: Lejeuneaceae): *Mastigolejeunea gradsteinii* Sukkharak sp. nov. Journal of Bryology 36 (1): 56–60. doi: 10.1179/1743282013Y.0000000082
- Sukkharak P (2015) A systematic monograph of the genus *Thysananthus* (Lejeuneaceae, Marchantiophyta). Phytotaxa 193 (1): 1–81. doi: 10.11646/phytotaxa.193.1.1
- Sukkharak P, Gradstein SR (2010) Studies on the genus *Thysananthus* (Marchantiophyta: Lejeuneaceae) 1. *Thysananthus discretus* Sukkharak et Gradst. sp. nov. Cryptogamie, Bryologie 31 (2): 113–119.
- Sukkharak P, Gradstein SR (2014) A taxonomic revision of the genus *Mastigolejeunea* (Marchantiophyta: Lejeuneaceae). Nova Hedwigia 99 (3/4): 279–345. doi: 10.1127/0029-5035/2014/0206
- Sukkharak P, Gradstein SR, Stech M (2011) Phylogeny, taxon circumscriptions, and character evolution in the core Ptychanthoideae (Lejeuneaceae, Marchantiophyta). Taxon 60 (6): 1607–1622.

- Sullivant WS (1849) Contributions to the bryology and hepaticology of North America, 2. Memoirs of the American Academy of Arts and Sciences (n.ser.) 4: 169–176.
- Sullivant WS (1850) Notices of several new species of mosses and hepaticae from Tierra del Fuego. Hooker's Journal of Botany and Kew Gardens Miscellany 2: 315–318.
- Sullivant WS (1856) The musci and hepaticae of the United States east of the Mississippi river. In: Gray A (Ed.) Manual of the Botany of the northern United States, second edition. George P. Putnam & Co., New York, 607–737. doi: 10.5962/bhl.title.50405
- Sun J, Duan Y-X (2007) The rectification of three illegal names in the genus *Jungermannia* (Hepaticae, Jungermanniaceae). Bulletin of Botanical Research. Harbin 27 (2): 139–140.
- Sun J, Cao T, Gao C, Yu J (2004) A new species of *Scapania* (Scapaniaceae, Hepaticae) from Sichuan, China. Guihaia 24 (1): 23–24.
- Svihla RD (1957) Frullaniaceae of Burma. II. *Frullania shanensis* n. sp. Bryologist 60 (4): 359–363. doi: 10.2307/3239883
- Svihla RD (1958) Frullaniaceae of Burma IV. *Frullania maymyoensis* n. sp. Bryologist 61 (4): 376–379. doi: 10.2307/3240172
- Swails Jr LF (1970) The genus *Porella* in Latin America. Nova Hedwigia 19: 201–291.
- Swartz O (1781) Methodus muscorum illustrata. Joh. Edman, Upsaliae [Uppsala], 38 pp.
- Swartz O (1788) Nova genera et species plantarum prodromus. Bibliopolio. I.G. Mülleriano, Lipsiae [Leipzig], 152 pp.
- Swartz O (1806) Flora indiae occidentalis, tomus 3. J. Palm, Erlangae, 1231–2018. doi: 10.5962/bhl.title.434
- Sydow P (1894) Moose. Just's botanischer Jahresbericht 19: 223–249.
- Szweykowski J, Buczkowska K, Odrzykoski IJ (2005) *Conocephalum salebrosum* (Marchantiopsida, Conocephalaceae) – a new holarctic liverwort species. Plant Systematics and Evolution 253 (1/4): 133–158. doi: 10.1007/s00606-005-0301-0
- Szyszyłowicz I (1894) Diagnoses plantarum novarum a cl. d. Const. Jelski in Peruvia lectarum, pars prima. Sumptibus Academiae, Cracoviae, 1–25.
- Tan BC, Engel JJ (1986) An annotated checklist of Philippine Hepaticae. Journal of the Hattori Botanical Laboratory 60: 283–355.
- Taylor T (1836a) Flora hibernica. Part second, comprising the musci, hepaticae and lichenes. William Curry Jun and Co., Dublin, 279 pp. doi: 10.5962/bhl.title.6699
- Taylor T (1836b) De Marchantieis. Transactions of the Linnean Society of London 17 (3): 375–395. doi: 10.1111/j.1095-8339.1834.tb00030.x
- Taylor T (1843) Descriptions of two species of British *Jungermanniae*. Annals and Magazine of Natural History 12 (76): 172–173. doi: 10.1080/03745484309442506
- Taylor T (1844a) Descriptions of *Jungermannia ulicina*, (Taylor), and of *J. Lyoni*, (Taylor). Transactions of the Botanical Society of Edinburgh 1 (1/4): 115–116. doi: 10.1080/03746604409467519
- Taylor T (1844b) On two new species of *Jungermannia*, and another new to Britain. Transactions of the Botanical Society of Edinburgh 1: 179–181. doi: 10.1080/03746604409467527
- Taylor T (1846a) New hepaticae. London Journal of Botany 5: 258–284.
- Taylor T (1846b) New hepaticae. London Journal of Botany 5: 365–417.

- Taylor T (1847a) Diagnostic characters of five new species of cryptogamic plants from Jamaica. *Annals and Magazine of Natural History* 20 (135): 379–381. doi: 10.1080/037454809496074
- Taylor T (1847b) Descriptions of new musci and hepaticae, collected by Professor William Jameson on Pichincha, near Quito. *London Journal of Botany* 6: 328–342.
- Taylor T (1848a) On some new musci, collected by professor W. Jameson on Pichincha. *London Journal of Botany* 7: 187–199.
- Taylor T (1848b) On the specific characters of certain new cryptogamic plants, lately received from, and collected by, professor William Jameson, on Pichincha, near Quito. *London Journal of Botany* 7: 278–285.
- Taylor J (1954) A new Australian hepatic. *Kew Bulletin* 9 (1): 45–47. doi: 10.2307/4108927
- Taylor T, Hooker JD (1845) XXXIV Hepaticae, Juss. In: Hooker JD (Ed.) *The Botany of the Antarctic Voyage of H. M. discovery ships Erebus and Terror in the years 1839–43. I. Flora Antarctica I. Lord Auckland's Group and Campbell's Island*. Reeve, London, 144–169.
- Thaithong O, Hattori S (1977) A new species of *Frullania* from North Vietnam and the Indian *F. physantha* Mitt. *Bulletin of the National Science Museum, Tokyo. Series B, Botany* 3 (4): 149–154.
- Thiers BM (1983) Type studies in the Lejeuneaceae. II. *Pteryganthus*, a new subgenus of *Lopholejeunea*. *Brittonia* 35 (1): 81–86. doi: 10.2307/2806055
- Thiers BM (1984) Studies in Lejeuneaceae, III. *Lopholejeunea erugata*, a new name for *Ptychocoleus inermis*. *Brittonia* 36 (2): 174–177. doi: 10.2307/2806626
- Thiers BM (1985) *Austrolejeunea bidentata*, a new species of Lejeuneaceae subfamily Tuyamaeloideae from Australia. *Bryologist* 88 (4): 350–352. doi: 10.2307/3242671
- Thiers BM (1987a) *Lepidolejeunea queenslandica* (Lejeuneaceae subfamily Lejeuneoideae): a new species from Australia. *Memoirs of the New York Botanical Garden* 45: 556–560.
- Thiers BM (1987b) A preliminary account of *Colura* (Hepaticae, Lejeuneaceae) in Australia. *Brittonia* 39 (2): 175–179. doi: 10.2307/2807369
- Thiers BM (1988) The Australian species of *Cololejeunea*. *Beihefte zur Nova Hedwigia* 90: 113–146.
- Thiers BM (1992a) New species of *Cheilolejeunea* and *Otolejeunea* (Hepaticae, Lejeuneaceae) from Australia. *Brittonia* 44 (2): 160–165. doi: 10.2307/2806830
- Thiers BM (1992b) A re-evaluation of *Cheilolejeunea* subgenus *Xenolejeunea*. *Tropical Bryology* 5: 11–21.
- Thiers BM (1993) A monograph of *Pleurozia* (Hepaticae, Pleuroziaceae). *Bryologist* 96 (4): 517–554. doi: 10.2307/3243984
- Thiers BM (1997a) *Cheilolejeunea* in Australia: description of new taxa and key. *Journal of the Hattori Botanical Laboratory* 82: 321–328.
- Thiers BM (1997b) *Lejeunea bischlerae*, a new species of *Lejeunea* subgenus *Microlejeunea* from Australia. *Cryptogamie: Bryologie, Lichénologie* 18 (3): 223–226.
- Thiers BM, Gradstein SR (1989) Lejeuneaceae (Hepaticae) of Australia. I. Subfamily Ptychanthoideae. *Memoirs of the New York Botanical Garden* 52: 1–79.

- Thiers BM, Söderström L, Hagborg A, von Konrat MJ (2012) Notes on Early Land Plants Today. 11. *Microlejeunea bischlerae* (B.M.Thiers) comb. nov. *Phytotaxa* 65: 59.
- Thouvenot L, Reeb C (2014) *Riccardia elisabethae*, a new species of Aneuraceae (Marchantiophyta) from New Caledonia. *Telopea* 17: 229–232. doi: 10.7751/telopea20147824
- Thouvenot L, Gradstein SR, Hagborg A, Söderström L, Bardat J (2011) Checklist of the liverworts and hornworts of New Caledonia. *Cryptogamie, Bryologie* 32 (4): 287–390. doi: 10.7872/cryb.v32.iss4.2011.287
- Thunberg CP (1784) *Flora iaponica*. J. G. Müller, Leipzig, 418 pp.
- Thunberg CP (1800) *Prodromus plantarum capensium, pars posterior*. Joh. Edman, Upsalia [Uppsala], 85–191.
- Thurn EF (1886) Notes of the plants observed during the Roraima expedition of 1884. *Timehri* 5: 145–223.
- Tindall EM (1898) *Fossombronina mittenii* n. sp. *Journal of Botany, British and Foreign* 36: 44–45.
- Tixier P (1962) A propos du genre *Tuyamaella* Hatt. dans le Sud-est asiatique: *Tuyamaella hattorii* n. sp. *Revue Bryologique et Lichénologique* 31 (3/4): 187–189.
- Tixier P (1967) Bryophytae indosinicae. A contribution to the knowledge of bryophytes in western Indochina. *Dacca University Studies. Part B, Sciences* 15: 1–14.
- Tixier P (1969) *Cololejeunea* de l'Asie du sud-est. I. –*Leonidentes* et espèces affines. *Revue Bryologique et Lichénologique* 36 (3/4): 543–594.
- Tixier P (1970a) Bryophytae Indosinicae. Bryophytes from Thai Tenasserim. *Natural History Bulletin of the Siam Society* 23 (4): 541–559.
- Tixier P (1970b) Contribution à la connaissance du genre *Cololejeunea* en Asie du Sud-Est. II. La section *Radulae* (nov. sect.) du sous-genre *Lasiolejeunea*. *Annales de la Faculté des Sciences, Université de Phnom Penh* 3: 177–190.
- Tixier P (1971) A Contribution to the Bryological Knowledge of Fraser's Hill station (Malaysia). *Gardens' Bulletin, Singapore* 25 (3): 335–353.
- Tixier P (1972a) Contribution à l'étude des Lejeunéacées du Pacifique. *Bulletin de la Société d'Histoire Naturelle de l'Afrique du Nord* 63: 9–12.
- Tixier P (1972b) Mount Maquilung bryoflora (Luzon). *Gardens' Bulletin, Singapore* 26 (1): 137–153.
- Tixier P (1973a) Le genre *Tuyamaella* Hatt. (Lejeunéacées) Monographie. *Revue Bryologique et Lichénologique* 39 (2): 221–244.
- Tixier P (1973b) Contribution to the knowledge of genus *Cololejeunea* in south-east Asia. III. Some new species. *Natural History Bulletin of the Siam Society* 24 (3/4): 439–447.
- Tixier P (1973c) *Jovetastella* (Lejeuneaceae, Paradoxae) genre nouveau. *Revue Bryologique et Lichénologique* 39 (4): 661–663.
- Tixier P (1973d) Bryophytes exotiques. *Bulletin du Muséum National d'Histoire Naturelle (sér. 3), Botanique* 10 (190): 73–86.
- Tixier P (1974) Bryophytae Indosinicae. À propos de quelques espèces nouvelles récoltées au Vietnam. *Annales Historico-Naturales Musei Nationalis Hungarici* 66: 87–100.
- Tixier P (1975a) Contribution à l'étude du genre *Cololejeunea* V. Quelques espèces de la région indopacifique. *Botaniska Notiser* 128: 425–431.

- Tixier P (1975b) Contribution à l'étude de l'hépatologie africaine. I. Récoltes en bordure du Golfe de Guinée (Cameroun et Gabon). *Annales de la Faculté des Sciences de Yaoundé* 20: 3–10.
- Tixier P (1977a) La famille Cololejeunoideae (Grolle) dans l'Océan Indien Occidental – Essai Monographique. *Bulletin de l'Académie Malgache* (n.ser.) 55 (1/2): 173–247.
- Tixier P (1977b) Espèces nouvelles malgaches du genre *Diplasiolejeunea* (Spruce) Schiffn. (Hepaticae). *Lindbergia* 4 (1/2): 117–125.
- Tixier P (1979a) Bryogéographie du Mont Bokor (Cambodge) (Bryophyta indosinica XXIV). *Bryophytorum Bibliotheca* 18: 5–121.
- Tixier P (1979b) Contribution à l'étude du genre *Cololejeunea*. Les Cololejeunoidées de Nouvelle Calédonie. *Nova Hedwigia* 31: 721–787.
- Tixier P (1979c) Nouvelles espèces malgaches de *Diplasiolejeunea* (Diplasiae) II. *Revue Bryologique et Lichénologique* 45 (2): 209–226.
- Tixier P (1979d) Contribution to the knowledge of the genus *Cololejeunea* VIII. Some new species of Malagasy *Cololejeunea*. *Bryologist* 82 (4): 602–608. doi: 10.2307/3242002
- Tixier P (1980a) Contribution à l'étude du genre *Cololejeunea* (Lejeuneaceae) IX. Espèces nouvelles du sous genre *Pedinolejeunea* (Ben.) Mizutani en région néotropicale. *Bradea* 3 (6): 35–44.
- Tixier P (1980b) Deux nouveaux genres de Lejeunécées, *Otolejeunea* Grolle et P. Tx. et *Allorgella* P. Tx. *Nova Hedwigia* 32: 607–622.
- Tixier P (1981) La notion d'espèce chez le genre *Cololejeunea*. La complexe *Cololejeunea floccosa* (Lehm. & Lindenb.) Schiffn. *Cryptogamie: Bryologie, Lichénologie* 2 (1): 47–76.
- Tixier P (1982) Une nouvelle espèce pour le genre *Jovetastella*: *J. aurantia*. *Cryptogamie: Bryologie, Lichénologie* 3 (1): 29–31.
- Tixier P (1983a) La notion d'espèce dans le genre *Diplasiolejeunea*. 2. *Diplasiolejeunea pauckertii* (Nees) Steph. et *D. columbica* sp. nov. Lejeunécées corticoles des “paramos” andins. *Cryptogamie: Bryologie, Lichénologie* 4 (3): 231–236.
- Tixier P (1983b) Contributions to the knowledge of Pacific Lejeuneaceae. II. *Cheilolejeunea* (*Xenolejeunea*) *huerlimannii* sp. nov. *Miscellanea Bryologica et Lichenologica* 9 (9): 184–185.
- Tixier P (1984) Contribution à l'étude du genre *Diplasiolejeunea* (Spruce) Schiffn. 4. La Section *Villaumeae* sur la côte est de Madagascar. *Acta Botanica Hungarica* 30 (1/2): 11–26.
- Tixier P (1985a) Contribution à la connaissance des Cololejeunoideae. *Bryophytorum Bibliotheca* 27: 1–439.
- Tixier P (1985b) A propos du genre *Bazzania* en Nouvelle-Calédonie récoltes de H. S. Mac Kee. *Cryptogamie: Bryologie, Lichénologie* 6 (2): 177–180.
- Tixier P (1988) Le domaine lémuero-australasien intérêt biogéographique de deux espèces nouvelles. *Nova Hedwigia* 46 (3/4): 373–383.
- Tixier P (1989) Contribution à l'étude du genre *Cololejeunea* (Lejeuneaceae, Hepaticae) X. Espèces nouvelles récoltées par Sten Bergman en Irian Jaya (1949). *Bulletin du Jardin Botanique National de Belgique* 59 (3/4): 439–444. doi: 10.2307/3668358
- Tixier P (1991) Bryophyta exotica – 9. Quelques Lejeuneaceae (Hépatiques) nouvelles pour l'Amérique du Sud. *Candollea* 46 (2): 267–302.

- Tixier P (1993) Contribution à la genre *Cololejeunea* (Lejeuneaceae, Hepaticae) XI. De quelques *Pedinolejeunea* austreaux. *Cryptogamie: Bryologie, Lichénologie* 14 (3): 353–360.
- Tixier P (1995a) Rectifications nomenclaturales – Typifications. *Cryptogamie: Bryologie, Lichénologie* 16 (3): 229–230.
- Tixier P (1995b) Résultats taxonomiques de l'expédition BRYOTROP au Zaïre et Rwanda. 30. Bryophytes épiphyllés (récoltes de E. Fischer). *Tropical Bryology* 11: 11–76.
- Trabut ML (1886) *Riella battandieri* sp. nov. *Revue Bryologique* 13 (3): 35.
- Trabut ML (1891) Revision des espèces du genre *Riella* et description d'une espèce nouvelle. *Revue Générale de Botanique* 3 (35): 449–459.
- Trabut ML (1908) Une nouvelle *Riella* d'Algérie (*Riella bialata*). *Revue Bryologique* 35 (4): 96.
- Trabut ML (1916) Observations sur deux Ricciacées de la flore d'Algérie. *Bulletin de la Société d'Histoire Naturelle de l'Afrique du Nord* 7: 87.
- Trabut ML (1934) Hépatiques Nord-Africaines inédites. *Bulletin de la Société d'Histoire Naturelle de l'Afrique du Nord* 25 (9): 391–393.
- Trelease W (1897) Botanical observations on the Azores. *Annual Report of the Missouri Botanical Garden* 8: 77–220. doi: 10.2307/2992160
- Trevisan VBA (1853) *Herbarium cryptogamicum trevisianum*. Num. II (Musci, Hepaticae). Imprimerie Bianchi, Padova, 16 pp. (non vidi)
- Trevisan VBA (1874) Nuova censo delle epatiche italiane. *Rendiconti dell Reale Istituto Lombardo di Scienze e Lettere (ser. 2)* 7: 776–786.
- Trevisan VBA (1877) Schema di una nuova classificazione delle Epatiche. *Memorie del Reale Istituto Lombardo di Scienze e Lettere (Serie 3), Classe di Scienze Matematiche e Naturali* 4 (13): 383–451.
- Tsuda S, Hasegawa J (2006) A new species of *Frullania* (Frullaniaceae, Hepaticae) found in Miyazaki, southern Japan. *Bryological Research* 9 (3): 43–46.
- Tuba Z, Slack NG, Stark LR (2011) *Bryophyte ecology and climate change*. Cambridge University Press, Cambridge, 528 pp.
- Udar R (1959) Genus *Riccia* in India – IV. A new *Riccia*, *Riccia pandei* Udar sp. nov. from Garhwal with a note on the species of the genus from the West Himalayan territory. *Journal of the Indian Botanical Society* 38 (1): 146–159.
- Udar R (1961) Genus *Riccia* in India – V. A new *Riccia*, *R. reticulatula* Udar, sp. nov., from Pilani with a note on the species of *Riccia* from the central India zone, Gangetic plains, Panjab and Rajasthan. *Bulletin of the Botanical Society of the University of Saugar* 13: 46–55.
- Udar R (1965) *Riccia grollei* Udar nom. nov. a correction for *Riccia tuberculata* Pandé et Udar from India. *Current Science* 34 (4): 126.
- Udar R, Asthana AK (1985a) A new *Anthoceros* from Nagaland. *Journal of the Indian Botanical Society* 64: 303–305.
- Udar R, Asthana AK (1985b) *Anthoceros bharadwajii* – a new species from India. *Proceedings of the Indian National Science Academy. Part B, Biological Sciences* 51 (4): 483–489.
- Udar R, Awasthi US (1979) A new species of *Leptolejeunea* from India. *Miscellanea Bryologica et Lichenologica* 8 (6): 115–117.

- Udar R, Awasthi US (1981) A new species of *Lejeunea* from India. *Cryptogamie: Bryologie, Lichénologie* 2 (3): 345–348.
- Udar R, Chandra S (1965) On two new species of *Mannia*, *M. foreaui* Udar et Chandra and *M. perssonii* Udar et Chandra, with a note on the genus and its Indian. *Canadian Journal of Botany* 43 (1): 147–160. doi: 10.1139/b65-017
- Udar R, Chandra S (1977) A new species of *Notothylas* Sull., *N. pandei* Udar et Chandra from India. *Geophytology* 7 (2): 142–146.
- Udar R, Gupta A (1983) Differentiation of the genus *Targionia* L. in India-II. The East Himalayan and South Indian complex and description of a new species of *Targionia*. *Geophytology* 13 (1): 83–87.
- Udar R, Gupta A (1984) A new *Riccia* (Mich.) L. from Deoban western Himalayas, India. In: NN (Ed.) Proceedings of the V Indian Geophytological Conference, Lucknow 14–16 November, 1983, Special Publication. Paleobotanical Society, Lucknow, 307–311.
- Udar R, Kumar D (1976) Genus *Cephalozia* in Eastern Himalayas. *Geophytology* 6 (1): 35–45.
- Udar R, Kumar A (1982a) A new *Chonecolea* from India. *Bryologist* 85 (3): 315–318. doi: 10.2307/3243051
- Udar R, Kumar D (1982b) The genus *Radula* in India – I. *Journal of the Indian Botanical Society* 61: 177–182.
- Udar R, Kumar A (1982c) A remarkable *Cylindrocolea* Schust. from India. *Lindbergia* 8 (3): 181–184.
- Udar R, Kumar A (1982d) Two new species of *Cephaloziella* from India. *Lindbergia* 8 (1): 30–34.
- Udar R, Kumar A (1983a) A new *Frullania* from India. *Miscellanea Bryologica et Lichenologica* 9 (9): 192–194.
- Udar R, Kumar D (1983b) *Radula pandei*, a new hepatic from South India. *Lindbergia* 9 (2): 133–136.
- Udar R, Nath V (1976) A new species of *Cephaloziella* Spruce, *C. magna* Udar et Nath. sp. nov. from Sheerlakh, Almora (western Himalayas) India. *Geophytology* 6 (1): 105–107.
- Udar R, Nath V (1978) A new species of *Jubula* Dum. from India. *Miscellanea Bryologica et Lichenologica* 8 (3): 49–52.
- Udar R, Nath V (1981) *Frullania hattoriantha* sp. nov. from India. *Miscellanea Bryologica et Lichenologica* 9 (2): 44–47.
- Udar R, Shaheen F (1982) A new *Porella*, *P. chinensis* (St.) Hatt. var. *crispata*, var. nov. from Himalayas. *Miscellanea Bryologica et Lichenologica* 9 (4): 74–76.
- Udar R, Shaheen F (1983a) *Porella chinensis* (St.) Hatt. var. *hattori* var. nov. from Himalayas. *Miscellanea Bryologica et Lichenologica* 9 (7): 146–148.
- Udar R, Shaheen F (1983b) *Porella hattorii* sp. nov. from India. *Lindbergia* 9 (1): 70–72.
- Udar R, Singh DK (1976) A new *Cyathodium* from India. *Bryologist* 79 (2): 234–238. doi: 10.2307/3241921
- Udar R, Singh DK (1978) *Cyathodium indicum* Udar et Singh, sp. nov. from western Himalayas India. *Journal of Bryology* 10 (2): 139–142. doi: 10.1179/jbr.1978.10.2.139
- Udar R, Singh DK (1979a) *Notothylas pflleidereri* sp. nov. from Mangalore, India. *Lindbergia* 5 (1): 28–30.

- Udar R, Singh DK (1979b) On a new species of *Notothylias* Sull. from Western Ghats, India (1). *Revue Bryologique et Lichénologique* 45 (2): 201–208.
- Udar R, Singh DK (1980) An interesting *Notothylias* from Brasil. *Miscellanea Bryologica et Lichenologica* 8 (9): 173–178.
- Udar R, Singh DK (1981a) A new species of the genus *Notothylias* Sull., *N. himalayensis* Udar et Singh, from India. *Journal of Bryology* 11 (3): 451–457. doi: 10.1179/jbr.1981.11.3.451
- Udar R, Singh DK (1981b) *Notothylias khasiana* Udar et Singh sp. nov. from Shillong, India. *Journal of the Indian Botanical Society* 60: 112–117.
- Udar R, Singh DK (1981c) Some new combinations under *Phaeoceros* Proskauer. *Geophytology* 11 (2): 257–258.
- Udar R, Srivastava SC (1971) A new species of *Cyathodium* Kunze, *C. denticulatum* Udar et Srivastava sp. nov., from Darjeeling (Eastern Himalayas), India. *Geophytology* 1 (2): 165–169.
- Udar R, Srivastava SC (1973) On a species of *Riccardia*, *R. santapau* Udar et Srivastava from Chindwara (Madhya Pradesh), India. *Revue Bryologique et Lichénologique* 39 (1): 155–161.
- Udar R, Srivastava G (1983) A new *Cololejeunea* from India. *Miscellanea Bryologica et Lichenologica* 9 (7): 137–139.
- Underwood LM (1884) Descriptive catalogue of the North American hepaticae, north of Mexico. *Bulletin of the Illinois State Laboratory of Natural History* 2 (1): 1–133.
- Underwood LM (1888) Some undescribed hepaticae from California. *Botanical Gazette* 13 (5): 112–114. doi: 10.1086/326267
- Underwood LM (1890) A new North American *Lejeunea*. *Bulletin of the Torrey Botanical Club* 17 (10): 258–259. doi: 10.2307/2476586
- Underwood LM (1891) A preliminary list of Pacific Coast hepaticae. *Zoe* 1 (12): 361–367.
- Underwood LM (1894) Notes on our hepaticae II. The genus *Riccia*. *Botanical Gazette* 19 (7): 273–278. doi: 10.1086/327066
- Underwood LM (1895) Notes on our hepaticae III. The distribution of North American Marchantiaceae. *Botanical Gazette* 20 (2): 59–71. doi: 10.1086/327151
- Uribe J (2004) Type studies on *Frullania* subgenus *Meteoriopsis* (Hepaticae). IV. A new species from the Galápagos Islands. *Cryptogamie, Bryologie* 25 (4): 295–299.
- Uribe J (2006) Type studies on *Frullania* subgenus *Meteoriopsis* (Hepaticae). V. *Frullania dulimensis* sp. nov. from Colombia. *Cryptogamie, Bryologie* 27 (3): 309–312.
- Uribe J, Linares EL (2015) *Micropterygium longicellulatum* (Lepidoziaceae, Marchantiophyta), a new species from Colombia. *Phytotaxa* 213 (3): 296–299. doi: 10.11646/phytotaxa.213.3.10
- Urmi E (1983) *Tetralophozia filiformis* (Steph.) comb. nov. in Europe. *Journal of Bryology* 12 (3): 393–401. doi: 10.1179/jbr.1983.12.3.393
- Vainio E (1878) Itä-Hämeen kasvistosta [Florula tavastiae orientalis]. *Meddelanden af Societas pro Fauna et Flora Fennica* 3: 1–121.
- Van der Gronde K (1980) Studies on Colombian cryptogams. VIII. The genus *Jensenia* Lindb. (Hepaticae). *Proceedings, Koninklijke Nederlandse Akademie van Wetenschappen. Series C, biological and medical sciences* 83 (3): 271–278.

- van Slageren M (1985) A taxonomic monograph of the genera *Brachiolejeunea* and *Frullanooides*. Mededelingen van het Botanisch Museum en Herbarium van de Rijks Universiteit te Utrecht 544: 7–205.
- van Slageren M, Kruijt C (1985) A review of the genus *Blepharolejeunea* S. Arn. Beihefte zur Nova Hedwigia 80: 113–154.
- Váňa J (1970a) *Jungermannia caucasica* sp. n. (Hepaticae). Preslia 42: 96–97.
- Váňa J (1970b) *Kymatocalyx* in Mittelamerika. Österreichische Botanische Zeitschrift 118 (5): 572–579. doi: 10.1007/BF01376264
- Váňa J (1970c) Eine neue Lebermoosart aus Neukaledonien. Österreichische Botanische Zeitschrift 118 (3): 233–236. doi: 10.1007/BF01377860
- Váňa J (1972a) Miscellaneous notes on the Asiatic Jungermannioideae. Journal of the Hattori Botanical Laboratory 35: 312–318.
- Váňa J (1972b) Miscellaneous notes on the Asiatic Jungermannioideae II. Journal of the Hattori Botanical Laboratory 36: 57–74.
- Váňa J (1973a) Lebermoose aus Neuguinea. 10. *Jungermannia*. Journal of the Hattori Botanical Laboratory 37: 185–190.
- Váňa J (1973b) Studien über die Jungermannioideae (Hepaticae). 1. Allgemeine Charakteristik. Folia Geobotanica et Phytotaxonomica 8 (2): 181–208. doi: 10.1007/BF02854563
- Váňa J (1973c) Studien über die Jungermannioideae (Hepaticae). 2. *Jungermannia* subg. *Jungermannia*. Folia Geobotanica et Phytotaxonomica 8 (3): 255–309. doi: 10.1007/BF02852828
- Váňa J (1974a) Studien über die Jungermannioideae (Hepaticae). 5. *Jungermannia* subg. *Plectocolea* und subg. *Solenostoma*: Afrikanische Arten. Folia Geobotanica et Phytotaxonomica 9 (3): 277–312. doi: 10.1007/BF02853150
- Váňa J (1974b) Lebermoose aus Neuguinea. 11. *Andrewsianthus*. Journal of the Hattori Botanical Laboratory 38: 639–649.
- Váňa J (1974c) Studien über die Jungermannioideae (Hepaticae). 4. *Jungermannia* subg. *Plectocolea* und subg. *Solenostoma*: Allgemeines, süd- und mittelamerikanische Arten. Folia Geobotanica et Phytotaxonomica 9 (2): 179–208. doi: 10.1007/BF02852200
- Váňa J (1975a) Miscellaneous notes on the Asiatic Jungermannioideae IV. Journal of the Hattori Botanical Laboratory 39: 211–214.
- Váňa J (1975b) Studien über die Jungermannioideae (Hepaticae). 9. *Jungermannia* subg. *Plectocolea* und subg. *Solenostoma* in Hawaii: Ergänzungen und Synopsis der Gattung *Jungermannia*. Folia Geobotanica et Phytotaxonomica 10 (4): 357–382. doi: 10.1007/BF02854974
- Váňa J (1976a) Lebermoose aus Neuguinea. 13. Gymnomitriaceae. Journal of the Hattori Botanical Laboratory 40: 185–189.
- Váňa J (1976b) Drei neue Gymnomitriaceen aus Südamerika. Journal of the Hattori Botanical Laboratory 41: 411–417.
- Váňa J (1976c) Studien über die Jungermannioideae (Hepaticae). 10. *Nardia*. Folia Geobotanica et Phytotaxonomica 11 (4): 367–425. doi: 10.1007/BF02853183
- Váňa J (1977) *Jungermannia (Solenostoma) mamatkulovii* – eine neue Lebermoose aus Tadshikistan (UdSSR). Preslia 49: 181–182.

- Váňa J (1980) Some new South and Central American hepatics. *Journal of the Hattori Botanical Laboratory* 48: 225–234.
- Váňa J (1988) *Cephalozia* (Dum.) Dum. in Africa, with notes on the genus (Notes on some African hepatic genera 10). *Beihefte zur Nova Hedwigia* 90: 179–198.
- Váňa J (1992) A new species of *Cephaloziella* (Bryophyta) from the Himalayas. *Folia Geobotanica et Phytotaxonomica* 27 (2): 193–195. doi: 10.1007/BF02856254
- Váňa J (1993) Taxonomic results of the BRYOTROP expedition to Zaire and Rwanda. 11. Cephaloziaceae, Cephaloziellaceae, Gymnomitriaceae, Jungermanniaceae, Lophoziaceae. *Tropical Bryology* 8: 99–103.
- Váňa J (2003) Notes on Gymnomitriaceae (subf. Gymnomitrioidae) in Latin America. *Acta Academiae Paedagogicae Agriensis, Sectio Biologiae* 24: 109–128.
- Váňa J (2013) *Pseudoisotachis pocsii* Váňa, a new genus and species of liverwort from the subantarctic Marion Island. *Polish Botanical Journal* 58 (1): 55–58. doi: 10.2478/pbj-2013-0006
- Váňa J, Engel JJ (2013) The liverworts and hornworts of the Tristan da Cunha group of islands in the south Atlantic Ocean. *Memoirs of the New York Botanical Garden* 105: 1–138.
- Váňa J, Gremmen N (2005) Hepatics of Heard Island. *Cryptogamie, Bryologie* 26 (1): 79–90.
- Váňa J, Long DG (2008) *Hamatostrepta concinna* gen. et sp. nov. (Jungermanniopsida, Scapaniaceae), a new Asiatic leafy liverwort from the Sino-Burmese border. *Fieldiana: Botany (n.ser.)* 47: 133–138. doi: 10.3158/0015-0746-47.1.133
- Váňa J, Long DG (2009) Jungermanniaceae of the Sino-Himalayan region. *Nova Hedwigia* 89 (3/4): 485–517. doi: 10.1127/0029-5035/2009/0089-0485
- Váňa J, Müller F (2003) *Cephaloziella biokoensis* sp. nov. (Marchantiopsida, Cephaloziellaceae), from the island of Bioko (Equatorial Guinea). *Tropical Bryology* 24: 1–4.
- Váňa J, Piippo S (1989) Bryophyte flora of the Huon Peninsula, Papua New Guinea. XXXI. Cephaloziaceae subfam. Allobielloideae, Cephaloziellaceae, Antheliaceae and Lophoziaceae (Hepaticae). *Annales Botanici Fennici* 26 (3): 263–290.
- Váňa J, Wigginton MJ (2008) Taxonomic results of the BRYOTROP expedition to Zaire and Rwanda. 34. A new species of *Amphicephalozia*, *A. africana* sp. nov. *Journal of Bryology* 30 (1): 55–58. doi: 10.1179/174328208X281996
- Váňa J, Bednarek-Ochyra H, Cykowska B (2009) Two new species of liverworts from the subantarctic Prince Edward Islands. *Nova Hedwigia* 89 (1/2): 121–129. doi: 10.1127/0029-5035/2009/0089-0121
- Váňa J, Hentschel J, Heinrichs J (2010a) New combinations in Jungermanniales: transfer of 32 taxa to *Solenostoma* Mitt. *Cryptogamie, Bryologie* 31 (2): 135–139.
- Váňa J, Söderström L, Hagborg A, von Konrat MJ, Engel JJ (2010b) Early Land Plants Today: Taxonomy, systematics and nomenclature of Gymnomitriaceae. *Phytotaxa* 11: 1–80. doi: 10.11646/phytotaxa.11.1
- Váňa J, Söderström L, Hagborg A, von Konrat MJ (2010c) Nomenclatural novelties and lectotypifications in Gymnomitriaceae. *Novon* 20 (2): 225–227. doi: 10.3417/2009082
- Váňa J, Hentschel J, Müller J, Heinrichs J (2012a) Taxonomic novelties in *Scapania*. *PhytoKeys* 10: 13–17. doi: 10.3897/phytokeys.10.2654
- Váňa J, Söderström L, Hagborg A, von Konrat MJ (2012b) Notes on Early Land Plants Today. 8. New combinations and some lectotypifications in *Mesoptychia*. *Phytotaxa* 65: 52–56.

- Váňa J, Söderström L, Hagborg A, von Konrat MJ (2012c) Notes on Early Land Plants Today. 4. *Aponardia* gen. et stat. nov. *Phytotaxa* 65: 46.
- Váňa J, Söderström L, Hagborg A, von Konrat MJ (2012d) Notes on Early Land Plants Today. 2. Two new combinations in *Solenostoma*. *Phytotaxa* 65: 44.
- Váňa J, Grolle R, Long DG (2012e) Taxonomic realignments and new records of *Gongylanthus* and *Southbya* (Marchantiophyta: Southbyaceae) from the Sino-Himalayan region. *Nova Hedwigia* 95 (1/2): 183–196. doi: 10.1127/0029-5035/2012/0042
- Váňa J, Söderström L, Hagborg A, von Konrat MJ (2012f) Notes on Early Land Plants Today. 12. *Pseudomarsupidium borneensis* (Grolle) comb. nov. *Phytotaxa* 65: 60.
- Váňa J, Söderström L, Hagborg A, von Konrat MJ (2013a) Notes on Early Land Plants Today. 33. Notes on Anastrophyllaceae (Marchantiophyta). *Phytotaxa* 81 (1): 26–32. doi: 10.11646/phytotaxa.81.1.9
- Váňa J, Söderström L, Hagborg A, von Konrat MJ (2013b) Notes on Early Land Plants Today. 20. New synonyms in *Gymnocoleopsis* (Cephaloziellaceae, Marchantiophyta). *Phytotaxa* 76 (3): 41–42. doi: 10.11646/phytotaxa.76.3.8
- Váňa J, Söderström L, Hagborg A, von Konrat MJ (2013c) Notes on Early Land Plants Today. 44. Comments on sexuality in *Solenostoma* (Solenostomataceae, Marchantiophyta) and on some newly described taxa. *Phytotaxa* 152 (1): 33–47. doi: 10.11646/phytotaxa.152.1.3
- Váňa J, Söderström L, Hagborg A, von Konrat MJ (2013d) Notes on Early Land Plants Today. 18. Transfers of some taxa in *Nardia* (Gymnomitriaceae, Marchantiophyta). *Phytotaxa* 76 (3): 37–38. doi: 10.11646/phytotaxa.76.3.6
- Váňa J, Söderström L, Hagborg A, von Konrat MJ (2013e) Notes on Early Land Plants Today. 40. Notes on Cephaloziellaceae (Marchantiophyta). *Phytotaxa* 112 (1): 1–6. doi: 10.11646/phytotaxa.112.1.1
- Váňa J, Söderström L, Hagborg A, von Konrat MJ (2013f) Notes on Early Land Plants Today. 45. A correction. *Phytotaxa* 152 (1): 48–49. doi: 10.11646/phytotaxa.152.1.4
- Váňa J, Söderström L, Hagborg A, von Konrat MJ (2013g) Notes on Early Land Plants Today. 41. New combinations and new synonyms in Cephaloziaceae (Marchantiophyta). *Phytotaxa* 112 (1): 7–15. doi: 10.11646/phytotaxa.112.1.2
- Váňa J, Söderström L, Hagborg A, von Konrat MJ (2013h) Notes on Early Land Plants Today. 17. Transfers of some taxa in Adelanthaceae (Marchantiophyta). *Phytotaxa* 76 (3): 35–36. doi: 10.11646/phytotaxa.76.3.5
- Váňa J, Söderström L, Hagborg A, von Konrat MJ (2013i) Notes on Early Land Plants Today. 16. Validation of *Metahygrobiella* subg. *Apohygrobiella* (Cephaloziaceae, Marchantiophyta). *Phytotaxa* 76 (3): 34. doi: 10.11646/phytotaxa.76.3.4
- Váňa J, Söderström L, Hagborg A, von Konrat MJ (2013j) Notes on Early Land Plants Today. 13. New names and synonyms in *Diplophyllum* (Scapaniaceae, Marchantiophyta). *Phytotaxa* 76 (3): 28–30. doi: 10.11646/phytotaxa.76.3.1
- Váňa J, Söderström L, Hagborg A, von Konrat MJ (2013k) Notes on Early Land Plants Today. 30. Transfer of some taxa from *Anastrophyllum* (Anastrophyllaceae, Marchantiophyta). *Phytotaxa* 81 (1): 15–18. doi: 10.11646/phytotaxa.81.1.6
- Váňa J, Söderström L, Hagborg A, von Konrat MJ (2013l) Notes on Early Land Plants Today. 24. What is *Protolophozia*? (Cephaloziellaceae, Marchantiophyta). *Phytotaxa* 76 (3): 50–54. doi: 10.11646/phytotaxa.76.3.12

- Váňa J, Söderström L, Hagborg A, von Konrat MJ (2013m) Notes on Early Land Plants Today. 32. New synonyms in *Andrewsianthus* and a transfer to *Tritomaria* (Lophoziaceae, Marchantiophyta). *Phytotaxa* 81 (1): 22–25. doi: 10.11646/phytotaxa.81.1.8
- Váňa J, Söderström L, Hagborg A, von Konrat MJ (2014a) Notes on Early Land Plants Today. 61. New synonyms and new combinations in Cephaloziaceae and Cephaloziellaceae (Marchantiophyta). *Phytotaxa* 183 (4): 290–292. doi: 10.11646/phytotaxa.183.4.10
- Váňa J, Söderström L, Hagborg A, von Konrat MJ (2014b) Notes on Early Land Plants Today. 52. Validation of *Tritomaria camerunensis* (Lophoziaceae, Marchantiophyta). *Phytotaxa* 167 (2): 215–216. doi: 10.11646/phytotaxa.167.2.11
- Váňa J, Söderström L, Hagborg A, von Konrat MJ (2014c) Notes on Early Land Plants Today. 60. Circumscription of Gymnomitriaceae (Marchantiophyta). *Phytotaxa* 183 (4): 287–289. doi: 10.11646/phytotaxa.183.4.9
- Váňa J, Feldberg K, Heinrichs J, Söderström L, Hagborg A, von Konrat M (2014d) Notes on Early Land Plants Today. 55. New taxa and synonyms in Adelanthaceae (Marchantiophyta). *Phytotaxa* 173 (1): 80–86. doi: 10.11646/phytotaxa.173.1.7
- Váňa J, Söderström L, Hagborg A, von Konrat MJ (2015) Notes on Early Land Plants Today. 65. New synonyms in Scapaniaceae (Marchantiophyta). *Phytotaxa* 202 (1): 57. doi: 10.11646/phytotaxa.202.1.7
- Vanden Berghen C (1950) Contribution à l'étude des espèces africaines du genre *Lopholejeunea* (Spr.) Schiffn. *Bulletin du Jardin Botanique de l'État, Bruxelles* 20 (2): 161–179. doi: 10.2307/3666689
- Vanden Berghen C (1951a) Note sur trois hépatiques du Congo Belge. *Bulletin de la Société Royale de Botanique de Belgique* 84: 61–64.
- Vanden Berghen C (1951b) Contribution à l'étude des espèces africaines du genre *Ceratolejeunea* (Spruce) Schiffn. *Bulletin du Jardin Botanique de l'État, Bruxelles* 21 (1/2): 61–81. doi: 10.2307/3666810
- Vanden Berghen C (1951c) Contribution à l'étude des espèces africaines du genre *Archilejeunea* (Spr.) Schiffn. *Revue Bryologique et Lichénologique* 20 (1/2): 112–121.
- Vanden Berghen C (1951d) Contribution à l'étude des espèces africaines du genre *Brachiolejeunea* (Spruce) Schiffn. *Bulletin du Jardin Botanique de l'État, Bruxelles* 21 (1/2): 87–94. doi: 10.2307/3666812
- Vanden Berghen C (1957) Flore générale de Belgique, Bryophytes, Vol. 1, Fasc. 3. *Jardin Botanique de l'État, Bruxelles*, 271–389.
- Vanden Berghen C (1960a) Hépatiques récoltées en Afrique par M. Monod. *Revue Bryologique et Lichénologique* 29 (1/2): 50–67.
- Vanden Berghen C (1960b) Hépatiques récoltées par Dr J.-J. Symoens dans la région péritanganyikaise. *Bulletin de la Société Royale de Botanique de Belgique* 92: 111–138.
- Vanden Berghen C (1961) Hépatiques récoltées par le Dr J.-J. Symoens dans la région péri-tanganyikaise. *Bulletin de la Société Royale de Botanique de Belgique* 93: 55–74.
- Vanden Berghen C (1972a) Hépatiques épiphyllées récoltées au Burundi par J. Lewalle. *Bulletin du Jardin Botanique National de Belgique* 42 (4): 431–494. doi: 10.2307/3667667

- Vanden Berghen C (1972b) Hépatiques et anthocérotées. In: Symoens J-J (Ed.) Exploration hydrobiologique du bassin du Lac Bangweolo ed du Luapula, vol. VIII, fasc. 1. Cercle Hydrobiologique de Bruxelles, Bruxelles, 1–202.
- Vanden Berghen C (1976a) Deux Lejeunéacées holostipées nouvelle pour la flore africaine. *Revue Bryologique et Lichénologique* 42 (4): 923–929.
- Vanden Berghen C (1976b) Frullaniaceae (Hepaticae) africanae. *Bulletin du Jardin Botanique National de Belgique* 46 (1/2): 1–220. doi: 10.2307/3667414
- Vanden Berghen C (1977) Hépatiques épiphyllées récoltées par J L De Sloover au Kivu, Zaïre, au Ruanda et au Burundi. *Bulletin du Jardin Botanique National de Belgique* 47 (1/2): 199–246. doi: 10.2307/3667993
- Vanden Berghen C (1978) Hépatiques épiphyllées récoltées en Rhodésie. *Revue Bryologique et Lichénologique* 44 (4): 443–452.
- Vanden Berghen C (1981) Le genre *Plagiochila* (Dum.) Dum. (Hepaticae) à Madagascar et aux Mascareignes, principalement d'après les récoltes de M. Onraedt. *Bulletin du Jardin Botanique National de Belgique* 51 (1/2): 41–103. doi: 10.2307/3667735
- Vanden Berghen C (1984a) Le genre *Lopholejeunea* (Spruce) Schiffn. (Lejeuneaceae, Hepaticae) en Afrique. *Bulletin du Jardin Botanique National de Belgique* 54 (3/4): 393–464. doi: 10.2307/3667852
- Vanden Berghen C (1984b) Lejeuneaceae (Hepaticae) nouvelles de La Réunion: *Marchesinia obtusifolia* sp. nov. et *Cheilolejeunea ecarinata* sp. nov. *Bulletin du Jardin Botanique National de Belgique* 54 (1/2): 7–14. doi: 10.2307/3667862
- Vanderpoorten A, Schäfer-Verwimp A, Heinrichs J, Devos N, Long DG (2010) The taxonomy of the leafy liverwort genus *Leptoscyphus* (Lophocoleaceae) revisited. *Taxon* 59 (1): 176–186.
- Vanderpoorten A, Désamoré A, Laenen B, Gradstein SR (2012) Striking autapomorphic evolution in *Physotheca* J.J.Engel & Gradst. (Marchantiophyta: Lophocoleaceae) blurred its actual relationships with *Leptoscyphus* Mitt. *Journal of Bryology* 34 (4): 251–256. doi: 10.1179/1743282012Y.0000000018
- Verdoorn F (1928a) Kritische Bemerkungen ueber ostasiatische und ozeanische *Frullania*-Arten aus dem subgenus *Homotropantha* (De Frullaniaceis III). *Revue Bryologique et Lichénologique* 1: 109–122.
- Verdoorn F (1928b) Ueber einige amerikanische Frullaniaceae, De Frullaniaceis II. *Annales de Cryptogamie Exotique* 1 (2): 213–220.
- Verdoorn F (1929a) V Schiffner – Expositio plantarum in itinere suo indico annis 1893–94 suscepto collectorum speciminibusque exsiccatis distributarum, adjectis descriptionibus novarum. Series tertia (no. 1473–2460). Frullaniaceas continens (De Frullaniaceis IV). *Annales Bryologici* 2: 117–154.
- Verdoorn F (1929b) Einige morphologische Notizen über *Frullania*. De Frullaniaceis VI. *Annales du Jardin Botanique de Buitenzorg* 40: 139–145.
- Verdoorn F (1930a) Revision der von Ozeanien angeführten Frullaniaceae (De Frullaniaceis VIII). *Nederlandsch Kruidkundig Archief. Verslagen en Mededelingen der Nederlandsche Botanische Vereeniging* 40 (2): 155–175.

- Verdoorn F (1930b) Frullaniaceae. Nova Guinea: Résultats des expéditions scientifiques à la Nouvelle Guinée 14: 540–548.
- Verdoorn F (1930c) Die Frullaniaceae der Indomalesischen Inseln (De Frullaniaceis VII). *Annales Bryologici*, suppl. 1: 1–187. doi: 10.1007/978-94-015-5385-8
- Verdoorn F (1932a) Neue Beiträge zur Kenntnis indomalesischer Frullaniaceae (De Frullaniaceis IX). *Bulletin du Jardin Botanique de Buitenzorg* (sér. 3) 12 (1): 53–64.
- Verdoorn F (1932b) Ueber einige neue *Frullania*-sammlungen (De Frullaniaceis X). *Nederlandsch Kruidkundig Archief. Verslagen en Mededelingen der Nederlandsche Botanische Vereeniging* (ser. 3) 42 (2): 484–500.
- Verdoorn F (1932c) Hepaticae selectae et criticae, series III et IV (1932). *Annales Bryologici* 5: 125–144.
- Verdoorn F (1933a) Hepaticae selectae et criticae, series V et VI. *Annales Bryologici* 6: 95–104.
- Verdoorn F (1933b) Die von V. Schiffner (1893–1894) und von Fr. Verdoorn (1930) auf den indomalesischen Inseln gesammelten Lejeuneaceae Holostipae. *De Frullaniaceis XI. Recueil des Travaux Botaniques Néerlandais* 30: 212–233.
- Verdoorn F (1933c) Ueber zwei neue Gattungen der Lebermoose. *De Frullaniaceis XIII. Annales Bryologici* 6: 88–91.
- Verdoorn F (1934a) De Frullaniaceis XV. Die Lejeuneaceae Holostipae der Indomalaya unter Berücksichtigung sämtlicher aus Asien, Australien, Neuseeland und Ozeanien angeführten Arten. *Annales Bryologici*, suppl. 4: 40–192.
- Verdoorn F (1934b) De Frullaniaceis XIV. Revision der von Ozeanien, Australien und Neuseeland angeführten Lejeuneaceae Holostipae. *Blumea* 1 (1): 216–240.
- Verdoorn F (1934c) Bryologie und Hepaticologie, ihre Methodik und Zukunft. *Annales Bryologici*, suppl. 4: 1–39.
- Verdoorn F (1934d) Lejeuneaceae Holostipae. Nova Guinea: Résultats des expéditions scientifiques à la Nouvelle Guinée 18: 1–8.
- Verdoorn F (1935) Hepaticae selectae et criticae, series VII (1934) et series VIII (1935) and Musci selecti et critici, series I (1934) et series II (1935). *Annales Bryologici* 8: 150–158.
- Verdoorn F (1936) Hepaticae Selecti et Critici (ser. 9). Utrecht, 401–450. (non vidi)
- Verma PK, Rawat KK (2013) *Lejeunea srivastavae* sp. nov. (Marchantiophyta: Lejeuneaceae), from Nilgiri hills of Western Ghats (India). *Taiwania* 58 (1): 7–11.
- Verma PK, Rawat KK (2014) Present status of genus *Rectolejeunea* A.Evans (Marchantiophyta) in India. *Journal of Bryology* 36 (2): 160–162. doi: 10.1179/1743282014Y.0000000097
- Verma PK, Srivastava SC (2007) Diversity of genus *Taxilejeunea* (Spr.) Schiffn. in Western Ghats (India). *Proceedings of the National Academy of Sciences of India. Section B, Biological Sciences* 77 (2): 206–214.
- Verma PK, Srivastava SC (2011) Species diversity of genus *Microlejeunea* Steph. (Lejeuneaceae, Hepaticae) in Nilgiri Hills, Western Ghats, Tamil Nadu, India. *Journal of the Bombay Natural History Society* 108 (2): 120–125.
- Vianna EC (1981) *Sphaerocarpos mucilloi*, a new hepatic from Brazil. *Lindbergia* 7 (1): 58–60.

- Vianna EC (1985) Flora ilustrada do Rio Grande do Sul / 15. Marchantiales. Boletim do Instituto de Biociências, Universidade Federal do Rio Grande do Sul 38: 1–213.
- Villarreal JC, Renner SS (2012). Hornwort pyrenoids, carbon-concentrating structures, evolved and were lost at least five times during the last 100 million years. Proceedings of the National Academy of Science U.S.A. 109 (46): 18873–18878. doi: 10.1073/pnas.1213498109
- Villarreal JC, Renner SS (2014) A review of molecular clock calibrations and substitution rates in liverworts, mosses, and hornworts, and a timeframe for a taxonomically cleaned-up genus *Nothoceros*. Molecular Phylogenetics and Evolution 78: 25–35. doi: 10.1016/j.ympev.2014.04.014
- Villarreal JC, Hässel GG, Salazar Allen N (2007) *Nothoceros superbus* (Dendrocerotaceae), a new hornwort from Costa Rica. Bryologist 110 (2): 279–285. doi: 10.1639/0007-2745(2007)110[279:NSDANH]2.0.CO;2
- Villarreal JC, Cargill DC, Goffinet B (2010a) *Phaeomegaceros squamuliger* subspecies *hasselii* (Dendrocerotaceae, Anthocerotophyta), a new taxon from the southern hemisphere. Nova Hedwigia 91 (3/4): 349–360. doi: 10.1127/0029-5035/2010/0091-0349
- Villarreal JC, Goffinet B, Duff RJ, Cargill DC (2010b) Phylogenetic delineation of *Nothoceros* and *Megaceros* (Dendrocerotaceae). Bryologist 113 (1): 106–113. doi: 10.1639/0007-2745-113.1.106
- Villarreal JC, Campos LV, Uribe J, Goffinet B (2012) Parallel evolution of endospory within hornworts: *Nothoceros renzagliensis* (Dendrocerotaceae), sp. nov. Systematic Botany 37 (1): 31–37. doi: 10.1600/036364412X616594
- Villarreal JC, Cargill C, Söderström L, Hagborg A, von Konrat M (2015) Notes on Early Land Plants Today. 70. Nomenclatural noted in hornworts (Anthocerotophyta). Phytotaxa 208 (1): 92–96. doi: 10.11646/phytotaxa.208.1.9
- Villars D (1789) Histoire des plantes de Dauphiné, Tome troisième, partie 2. Prevost, Paris, 581–1089.
- Vilnet AA, Konstantinova NA (2007) [Molecular phylogeny of Scapaniaceae Mig. (Hepaticae)]. Proceedings of Conference on plant morphology and taxonomy dedicated to 300th anniversary of Carl Linnaeus. KMK, Moscow, 53–55.
- Vilnet AA, Konstantinova NA, Troitsky AV (2007a) On molecular phylogeny of Gymnomitriaceae H. Klinggr. (Hepaticae). Computational phylogenetics and molecular systematics “CPMS’ 2007”. Conference proceedings. KMK, Moscow, 24–26.
- Vilnet AA, Milyutina IA, Konstantinova NA, Ignatov MS, Troitsky AV (2007b) Phylogeny of the Genus *Lophozia* (Dumort.) Dumort. s. str. inferred from nuclear and chloroplast sequences ITS1-2 and TRNL-F. Russian Journal of Genetics 43 (11): 1306–1313. doi: 10.1134/S1022795407110142
- Vilnet AA, Konstantinova NA, Troitsky VA (2008) Phylogeny and systematics of the genus *Lophozia* s. str. (Dumort.) Dumort. (Hepaticae) and related taxa from nuclear ITS1–2 and chloroplast trnL-F sequences. Molecular Phylogenetics and Evolution 47 (1): 403–418. doi: 10.1016/j.ympev.2007.12.013
- Vilnet AA, Konstantinova NA, Troitsky AV (2010) Molecular insight on phylogeny and systematics of the Lophozioaceae, Scapaniaceae, Gymnomitriaceae and Jungermanniaceae. Arctoa 19: 31–50.

- Vilnet AA, Konstantinova NA, Troitsky AV (2011) Taxonomical rearrangements of Solenotomataceae (Marchantiophyta) with description of a new family Endogemmataceae based on trnL-F cpDNA analysis. *Folia Cryptogamica Estonica* 48: 125–133.
- Vilnet AA, Konstantinova NA, Troitsky AV (2012) Molecular phylogeny and systematics of the suborder Cephaloziineae with special attention to the family Cephaloziaceae s.l. (Jungermanniales, Marchantiophyta). *Arctoa* 21: 113–132.
- Vilnet AA, Borovichev EA, Bakalin VA (2014) *Frullania subarctica* - a new species of the *Frullania tamarisci* complex (Frullaniaceae, Marchantiophyta). *Phytotaxa* 173 (1): 61–72. doi: 10.11646/phytotaxa.173.1.5
- Volk OH (1981) Beiträge zur Kenntnis der Lebermoose (Hepaticae) aus Südwestafrika (Namibia), II. Mitteilungen der Botanischen Staatssammlung München 17: 245–252.
- Volk OH (1983) Vorschläge für eine Neugliederung der Gattung *Riccia* L. Mitteilungen der Botanischen Staatssammlung München 19: 453–465.
- Volk OH (1984) Beiträge zur Kenntnis der Lebermoose (Marchantiales) aus Südwestafrika (Namibia). IV. Zur Biologie einiger Hepaticae mit besonderer Berücksichtigung der Gattung *Riccia*. *Nova Hedwigia* 39: 117–143.
- Volk OH (1988) *Riccia crenatodentata* (Marchantiales) sp. nov. aus Arabien. *Nova Hedwigia* 46 (1/2): 27–35.
- Volk OH, Perold SM (1984) Studies in the liverwort genus *Riccia* (Marchantiales) from the southwest Cape. *Bothalia* 15 (1/2): 117–124. doi: 10.4102/abc.v15i1 & 2.1110
- Volk OH, Perold SM (1985) Studies in the genus *Riccia* (Marchantiales) from southern Africa. 1. Two new species of the section *Pilifer*: *R. duthieae* and *R. alatospora*. *Bothalia* 15 (3/4): 531–539. doi: 10.4102/abc.v15i3 & 4.1837
- Volk OH, Perold SM (1986a) Studies in the genus *Riccia* (Marchantiales) from southern Africa. 6. *R. hirsuta*, a new species, in a new section. *Bothalia* 16 (2): 187–191. doi: 10.4102/abc.v16i2.1086
- Volk OH, Perold SM (1986b) Studies in the genus *Riccia* (Marchantiales) from southern Africa. 4. Three endemic species, *R. natalensis* Sim, *R. microciliata* sp. nov. and *R. mammiifera* sp. nov. *Bothalia* 16 (2): 169–180. doi: 10.4102/abc.v16i2.1084
- Volk OH, Perold SM (1986c) Studies in the genus *Riccia* (Marchantiales) from southern Africa. 3. *R. schelpei*, a new species, in the new subgenus *Chartacea*. *Bothalia* 16 (1): 29–33. doi: 10.4102/abc.v16i1.1057
- Volk OH, Perold SM (1986d) Studies in the genus *Riccia* (Marchantiales) from southern Africa. 5. *R. rosea*, a new species. *Bothalia* 16 (2): 181–185. doi: 10.4102/abc.v16i2.1085
- Volk OH, Perold SM (1990) Studies in the genus *Riccia* (Marchantiales) from southern Africa. 15. *R. hirsuta* and *R. tomentosa*, sp. nov., two distinct species previously treated as one. *Bothalia* 20 (1): 23–29. doi: 10.4102/abc.v20i1.890
- Volk OH, Perold SM, Bornefeld T (1988) Studies in the genus *Riccia* (Marchantiales) from southern Africa. 10. Two new white-scaled species of the group ‘Squamatae’: *R. argenteolimbata* and *R. albornata*. *Bothalia* 18 (2): 155–163. doi: 10.4102/abc.v18i2.998
- von Flotow JCG, von Göppert R, Nees CG (1842) Ueber Páo Pereira und mehrere darauf wachsende kryptogamische Pflanzen. *Repertorium für die Pharmacie* 76: 32–55.

- von Konrat MJ, Braggins JE (2003) A new and unusual species of *Frullania* (Jubulaceae) from Tasmania, Australia. *New Zealand Journal of Botany* 41 (1): 55–62. doi: 10.1080/0028825X.2003.9512831
- von Konrat MJ, Braggins JE (2005) *Frullania wairua*, a new and seemingly rare liverwort species from Northland, New Zealand. *New Zealand Journal of Botany* 43 (4): 885–893. doi: 10.1080/0028825X.2005.9512998
- von Konrat M, Renner MAM, Söderström L, Hagborg A, Mutke J (2008a) Early Land Plants Today: Liverwort species diversity and the relationship with higher taxonomy and higher plants. *Fieldiana: Botany (n.ser.)* 47: 91–104. doi: 10.3158/0015-0746-47.1.91
- von Konrat MJ, Hagborg A, Söderström L, Mutke J, Renner M, Gradstein SR, Engel JJ, Zhu R-L, Pickering J (2008b) Early Land Plants Today: Global patterns of liverwort diversity, distribution, and floristic knowledge. In: Mohamed H, Baki BB (Eds) *Nasrulhaq-Boyce A, Lee PKY, Bryology in the New Millennium*. University of Malaya, Kuala Lumpur, 425–438.
- von Konrat M, Söderström L, Renner MAM, Hagborg AH, Briscoe L, Engel JJ (2010a) Early Land Plants Today (ELPT): How many liverwort species are there?. *Phytotaxa* 9: 22–40. doi: 10.11646/phytotaxa.9.1.5
- von Konrat MJ, Hentschel J, Heinrichs J, Braggins JE, Pócs T (2010b) Forty-one degrees below and sixty years in the dark: *Frullania* sect. *Inconditum*, a new section of Australasian *Frullania* species including *F. colliculosa*, sp. nov., *F. hodgsoniae*, nom. and stat. nov., *F. aterrima*, and *F. hattorii* (Frullaniaceae, Marchantiophyta). *Nova Hedwigia* 91 (3/4): 471–500. doi: 10.1127/0029-5035/2010/0091-0471
- von Konrat M, Söderström L, Hagborg A, Crosby MR, Engel JJ (2010c) Early Land Plants Today: Index of liverworts & hornworts 2006–2008. *Cryptogamie, Bryologie* 31 (1): 3–30.
- von Konrat M, Söderström L, Hagborg A (2010d) The Early Land Plants Today project: A community-driven effort and a new partnership with Phytotaxa. *Phytotaxa* 9: 11–21. doi: 10.11646/phytotaxa.9.1.4
- von Konrat MJ, Hentschel J, Heinrichs J, Braggins JE (2011) Deep southern hemisphere connections: A revision of *Frullania* sect. *Amphijubula*. *Bryologist* 114 (1): 52–66. doi: 10.1639/0007-2745-114.1.52
- von Konrat MJ, Söderström L, Hagborg A (2012a) Notes on Early Land Plants Today. 7. Transfer of *Jubulopsis novae-zelandiae* to *Lepidolaena*. *Phytotaxa* 65: 51.
- von Konrat MJ, de Lange P, Greif M, Strozier L, Hentschel J, Heinrichs J (2012b) *Frullania knightbridgei*, a new liverwort (Frullaniaceae, Marchantiophyta) species from the deep south of Aotearoa-New Zealand based on an integrated evidence-based approach. *PhytoKeys* 8: 13–36. doi: 10.3897/phytokeys.8.2496
- von Konrat M, de Lange P, Larraín J, Hentschel J, Carter B, Shaw J, Shaw B. (2013) A small world: uncovering hidden diversity in *Frullania* – a new species from Aotearoa - New Zealand. *Polish Botanical Journal* 58 (2): 437–447. doi: 10.2478/pbj-2013-0056
- von Malmberg S (1933) *Cryptothallus* nov. gen. Ein saprophytisches Lebermoos. *Annales Bryologici* 6: 122–123.
- Voronov' IuN (1914) Materialny k' flore pechenochnikov' Kavkaza. *Izvēstîâ Kavkazskago Muzeâ* 8: 81–88.

- Waddell CH (1897) Moss exchange club catalogue of British hepaticae. W. Wesley and Son, London, 7 pp.
- Wagner DH (2013) *Rivulariella*, gen. nov. (Jungermanniaceae), endemic to western North America. *Phytoneuron* 2013 (10): 1–9.
- Wahlenberg G (1811) Kamtschadalische Laub- und Lebermoose, gesammelt auf der russischen Entdeckungsreise von dem Herrn Hofrath Tilesius. *Magazin für die neuesten Entdeckungen in der gesammten Naturkunde, Gesellschaft Naturforschender Freunde zu Berlin* 5: 289–297.
- Wahlenberg G (1812) *Flora lapponica*. Taberna Libraria Scholae Realis, Berlin, 550 pp.
- Wahlenberg G (1814) *Flora carpatorum principalium*. Impensis Vandenhock et Ruprecht, Gottingae, 408 pp.
- Wang J, Zhu R-L (2008) *Lejeunea laii* nom. nov. for *Lejeunea ramulosa* (Herzog) R. M. Schust. (Jungermanniopsida: Lejeuneaceae) from Taiwan. *Journal of Bryology* 30 (2): 173–174. doi: 10.1179/174328208X300624
- Wang J, Lai M-J, Zhu R-L (2011) Liverworts and hornworts of Taiwan: an updated checklist and floristic accounts. *Annales Botanici Fennici* 48 (5): 369–395.
- Wang J, Zhou L-Y, Zhu R-L (2014a) A new epiphyllous species of *Cololejeunea* (Lejeuneaceae, Marchantiophyta) from China. *Phytotaxa* 161 (2): 165–168. doi: 10.11646/phytotaxa.161.2.8
- Wang J, Gradstein SR, Shi X-Q, Zhu R-L (2014b) Phylogenetic position of *Trocholejeunea* and a new infrageneric classification of *Acrolejeunea* (Lejeuneaceae, Marchantiophyta). *Bryophyte Diversity and Evolution* 36 (1): 31–44. doi: 10.11646/bde.36.1.3
- Wang J, Gradstein SR, Cheng X-F, Zhu R-L (2014c) A new species of *Trocholejeunea* (Lejeuneaceae, Marchantiophyta) from China. *Phytotaxa* 174 (5): 296–300. doi: 10.11646/phytotaxa.174.5.7
- Warnstorf C (1886) Moosflora der Provinz Brandenburg. *Verhandlungen des Botanischen Vereins der Provinz Brandenburg* 27 (1): 1–94.
- Warnstorf C (1902) Kryptogamenflora der Mark Brandenburg, Erster Band, Leber- und Torfmoose, 2 Heft. Gebrüder Borntraeger, Leipzig, 113–288.
- Warnstorf C (1913) Zur Bryogeographie des Russischen Reiches. *Hedwigia* 53 (3): 184–320.
- Warnstorf C (1916) Bryophyta nova europaea et exotica. *Hedwigia* 57 (1/2): 62–131.
- Warnstorf C (1917) Die europäischen Artengruppen der Gattung *Calypogeia* Raddi (1820). *Bryologische Zeitschrift* 1 (7): 97–114.
- Warnstorf C (1921) Die Unterfamilie der Scapanioideen (Spruce, 1885). *Hedwigia* 63 (2): 58–116.
- Watts WW (1902) Notes on some New South Wales hepatics. *Proceedings of the Linnean Society of New South Wales (ser. 2)* 26 (104): 633–634.
- Watts WW (1903) Notes on some New South Wales hepatics. *Proceedings of the Linnean Society of New South Wales (ser. 2)* 27 (108): 493–494.
- Weber GH (1778) *Spicilegium florae goettingensis*. Sumptibus Ettingeri, Gothae [Göttingen], 288 pp.
- Weber F (1815) *Historiae muscorum hepaticarum prodromus*. Aug. Hesse, Academiae bibliopolae, Kiel, 160 pp.

- Weber F, Mohr DMH (1807) *Botanisches Taschenbuch auf das Jahr 1807. Deutschlands Kryptogamische Gewächse. Erste Abtheilung. Filices, Musci frondosi et Hepatici*. Akademischen Buchhandlung, Kiel, 509 pp.
- Wei Y-M, Zhu R-L (2013a) Transfer of two Asiatic taxa from *Lejeunea* to *Microlejeunea* (Lejeuneaceae, Marchantiophyta). *Cryptogamie, Bryologie* 34 (3): 307–311. doi: 10.7872/cryb.v34.iss3.2013.307
- Wei Y-M, Zhu R-L (2013b) Notes on Early Land Plants Today. 39. *Microlejeunea indica* (Marchantiophyta, Lejeuneaceae). *Phytotaxa* 97 (2): 63–64. doi: 10.11646/phytotaxa.97.2.6
- Wei Y-M, He Q, Gradstein SR, Campos LV, Zhu R-L (2013) Notes on Early Land Plants Today. 46. Transfer of *Vitalianthus urubuensis* (Marchantiophyta, Lejeuneaceae) to *Cheilolejeunea*. *Phytotaxa* 152 (1): 50–52. doi: 10.11646/phytotaxa.152.1.5
- Wei Y-M, Zhu R-L, Gradstein SR (2014) Notes on Early Land Plants Today. 49. On *Lejeunea huctumalcensis* and the resurrection of *Otigoniolejeunea*, an older name for *Physantholejeunea* (Marchantiophyta, Lejeuneaceae). *Phytotaxa* 162 (4): 236–238. doi: 10.11646/phytotaxa.162.4.8
- Wellman CH, Osterloff PL, Mohiuddin U (2003) Fragments of the earliest land plants. *Nature* 425 (6955): 282–285. doi: 10.1038/nature01884
- Wheeler LC (1934) The genus *Grimaldia*. *Bryologist* 37 (5): 87–88. doi: 10.2307/3239514
- Wickett NJ, Goffinet B (2008) Origin and relationships of the myco-heterotrophic liverwort *Cryptothallus mirabilis* Malmb. (Metzgeriales, Marchantiophyta). *Botanical Journal of the Linnean Society* 156 (1): 1–12. doi: 10.1111/j.1095-8339.2007.00743.x
- Wigginton MJ (2002) Checklist and distribution of the liverworts and hornworts of sub-Saharan Africa, including the East African Islands. *Tropical Bryology Research Reports* 3: 1–88.
- Wigginton MJ (2006) Bryophytes of St Helena, south Atlantic Ocean. 1. Three new species of *Cololejeunea* (Jungermanniales, Lejeuneaceae), *C. dianae* sp. nov., *C. sanctae-helenae* sp. nov. and *C. grossestylis* sp. nov. *Journal of Bryology* 28 (4): 363–373. doi: 10.1179/174328206X152298
- Wigginton MJ (2007) Bryophytes of St Helena, south Atlantic Ocean. 2. *Lejeunea sanctae-helenae* sp. nov. (Jungermanniales, Lejeuneaceae), an unusual species with a hooded lobule. *Journal of Bryology* 29 (1): 12–17. doi: 10.1179/174328207X160595
- Wigginton MJ (2009) Checklist and distribution of the liverworts and hornworts of sub-Saharan Africa, including the East African Islands (edition 3, 24 January 2009). *Tropical Bryology Research Reports* 8: 1–116.
- Wigginton MJ (2012) Bryophytes of St Helena, south Atlantic Ocean. 6. *Cheilolejeunea* (Spruce) Schiffn. (Jungermanniales: Lejeuneaceae), including *C. microscypha* (Hook.f. & Taylor) M. Wigginton, comb. nov. and *C. rotalis* (Hook.f. & Taylor) M. Wigginton, comb. nov. *Journal of Bryology* 34 (4): 268–276. doi: 10.1179/1743282012Y.0000000027
- Wigginton MJ (2013) Bryophytes of St. Helena, South Atlantic Ocean. 7. *Cylindrocolea* (Jungermanniales, Cephalozellaceae): *C. sanctae-helenae* M. Wigginton sp. nov. *Polish Botanical Journal* 58 (1): 107–115. doi: 10.2478/pbj-2013-0012
- Wigginton MJ, Grolle R (1996) Catalogue of the hepaticae and anthocerotae of Sub-saharan Africa. *Bryophytorum Bibliotheca* 50: 1–267.

- Wigginton MJ, Porley RD, Hodgetts NG (2007) British Bryological Society expedition to Mulanje Mountain, Malawi. 18. *Cololejeunea lichenyae*, a new species of Lejeuneaceae (Jungermanniopsida) from Malawi. *Journal of Bryology* 29 (1): 7–11. doi: 10.1179/174328207X160586
- Wigglesworth G (1929) A new California species of *Sphaerocarpos*. *University of California Publications in Botany* 16 (3): 129–137.
- Wigglesworth G (1937) South African species of *Riella*, including an account of the developmental stages of three of the species. *Journal of the Linnean Society. Botany* 51 (339): 309–332. doi: 10.1111/j.1095-8339.1937.tb01910.x
- Wild CJ (1893) On the occurrence of a new *Dendroceros* in Queensland. *Transactions of the Natural History Society of Queensland* 1: 49–50.
- Williams H (1968) A new member of Lophoziaceae from Ontario. *Bryologist* 71 (1): 34–38. doi: 10.2307/3240650
- Wilson W (1841) Musci americani. Warrington, 1–180. (non vidi)
- Wilson R, Gradstein SR, Schneider H, Heinrichs J (2007) Unravelling the phylogeny of Lejeuneaceae (Jungermanniopsida): evidence for four main lineages. *Molecular Phylogenetics and Evolution* 43 (1): 270–282. doi: 10.1016/j.ympev.2006.10.017
- Winkler S (1967) Die epiphyllen Moose der Nebelwälder von El Salvador, C. A. *Revue Bryologique et Lichénologique* 35 (1/4): 303–369.
- Winkler S (1969) Systematisch-anatomische Untersuchungen über die marsupialen Lebermoose der Sierra Nevada de Santa Marta in Kolumbien. *Mitteilungen aus dem Instituto Colombo-Alemán de Investigaciones Científicas* 3: 59–76.
- Winkler S (1976) Die Hepaticae der Sierra Nevada de Santa Marta, Kolumbien. I. Terrestrische, epixyle und epipetrische Arten. *Revue Bryologique et Lichénologique* 42 (3): 789–827.
- Withering W (1776) A botanical arrangement of all the vegetables naturally growing in Great Britain, vol. II. M. Swinney, Birmingham, 385–838.
- Withering W (1796) An arrangement of British Plants, ed. 3. M. Swinney, Birmingham, 513–920.
- Wu P-C, But PP (2009) Hepatic flora of hong Kong. North-Eastern Forestry University Press, Harbin, 194 pp.
- Wu P-C, Lin P-J (1978) A preliminary observation on the hepaticae of the Island Hainan, China and their phytogeographical relationships. *Acta Phytotaxonomica Sinica* 16 (2): 56–71.
- Wu P-C, Lou J-S (1978) [Studyies [sic!] on the epiphyllous liverworts of China (II) The epiphyllous liverworts from Tibet]. *Acta Phytotaxonomica Sinica* 16 (4): 102–112.
- Yamada K (1973a) A study of *Radula* from Mt. Kinabalu, north Borneo, collected by Drs. Z. Iwatsuki and M. Mizutani. *Journal of Japanese Botany* 48 (5): 133–137.
- Yamada K (1973b) A new species of *Radula* from Mt. Kinabalu, north Borneo. *Miscellanea Bryologica et Lichenologica* 6 (6): 97–98.
- Yamada K (1974) Notes on *Frullania inflata* complex from Japan. *Miscellanea Bryologica et Lichenologica* 6 (9): 162–164.
- Yamada K (1975a) Notes on *Radula* from Tanzania, East Africa. *Journal of Japanese Botany* 50 (4): 115–118.

- Yamada K (1975b) *Radula* collections made by Dr. H. Inoue in Ceylon. *Journal of Japanese Botany* 50 (12): 372–378.
- Yamada K (1979a) A new species of *Radula* (Hepaticae) from Ceylon. *Miscellanea Bryologica et Lichenologica* 8 (6): 113–114.
- Yamada K (1979b) A revision of Asian taxa of *Radula*, Hepaticae. *Journal of the Hattori Botanical Laboratory* 45: 201–322.
- Yamada K (1982a) Some new species of *Radula* (Hepaticae). *Journal of the Hattori Botanical Laboratory* 51: 323–328.
- Yamada K (1982b) Notes on Latin American species of the genus *Radula*, hepaticae 1. *Miscellanea Bryologica et Lichenologica* 9 (6): 121–123.
- Yamada K (1983) Four new species of *Radula* from Cuba. *Journal of the Hattori Botanical Laboratory* 54: 241–249.
- Yamada K (1984a) A *Radula* collection made by Dr. M. L. Hicks in Queensland, Australia. *Cryptogamie: Bryologie, Lichénologie* 5 (1/2): 191–199.
- Yamada K (1984b) Tasmanian species of *Radula* (Hepaticae) collected by Mrs. A. V. Ratkowsky. *Journal of Japanese Botany* 59 (3): 91–96.
- Yamada K (1985a) Three new species of *Radula* (Hepaticae) from Papua New Guinea. *Journal of Japanese Botany* 60 (9): 257–264.
- Yamada K (1985b) *Radula* collections made by Drs. Z. Iwatsuki and N. Kitagawa in New Caledonia. *Journal of the Hattori Botanical Laboratory* 58: 111–130.
- Yamada K (1987) A preliminary study of the genus *Radula* from Queensland, Australia. *Journal of the Hattori Botanical Laboratory* 62: 191–200.
- Yamada K (1990) Two new species of *Radula* from (Hepaticae) from Australia and Brazil. *Journal of Japanese Botany* 65 (1): 1–6.
- Yamada K (1993) Four new species of *Radula* from Neotropics. *Journal of the Hattori Botanical Laboratory* 74: 35–44.
- Yamada K (1997) Two new *Radula* species (Hepaticae, Radulaceae) from the Neotropics. *Journal of the Hattori Botanical Laboratory* 82: 337–342.
- Yamada K, Gradstein SR (1991) The genus *Radula* (Hepaticae) in the Galapagos Islands. *Tropical Bryology* 4: 63–68.
- Yamada K, Piippo S (1989) Bryophyte flora of the Huon Peninsula, Papua New Guinea. XXXII. *Radula* (Radulaceae, Hepaticae). *Annales Botanici Fennici* 26 (4): 349–387.
- Yamaguchi T (1984) *Drepanolejeunea obtusifolia* sp. nov. and *Euosmolejeunea fuscobrunnea* Horik. from the Yaeyama Islands, Japan. *Journal of Japanese Botany* 59 (11): 332–336.
- Yang BY, Lee WC (1964) Bryophytic flora of Chi-Tou. *Botanical Bulletin of Academia Sinica* (n.ser.) 5 (2): 181–194.
- Yang J-D, Lin S-H (2014) *Cololejeunea nanbutashanensis* (Lejeuneaceae), a new species from Taiwan. *Phytotaxa* 177 (1): 56–60. doi: 10.11646/phytotaxa.177.1.5
- Yano O (1984) Checklist of Brazilian liverworts and hornworts. *Journal of the Hattori Botanical Laboratory* 56: 481–548.
- Yasuda A (1911) *Shokubutsugaku kakuron: Inkabu* [Botany essays: Cryptogams]. Hakubunkan, Tokyo, 1230 pp.

- Yatsentyuk SP, Konstantinova NA, Ignatov MS, Hyvönen J, Troitsky AV (2004) On phylogeny of Lophoziaceae and related families (Hepaticae, Jungermanniales) based on *trnL-trnF* intron-spacer sequences of chloroplast DNA. *Monographs in Systematic Botany from the Missouri Botanical Garden* 98: 151–167.
- Ye W, Zhu R-L (2010) *Leucolejeunea*, a new synonym of *Cheilolejeunea* (Lejeuneaceae), with special reference to new combinations and nomenclature. *Journal of Bryology* 32 (4): 279–282. doi: 10.1179/037366810X12814321877507
- Ye W, Zhu R-L, Shaw AJ, Gradstein SR (2011) Proposal to conserve the name *Cheilolejeunea* against *Omphalanthus* (Lejeuneaceae). *Taxon* 60 (2): 588–589.
- Ye W, Zhu RL, Long DG (2013a) Range extension and description for the rare *Cheilolejeunea chenii* (Lejeuneaceae, Marchantiophyta), with reference to the *Cyrtolejeunea* clade. *Journal of Bryology* 35 (2): 143–147. doi: 10.1179/1743282013Y.0000000050
- Ye W, Wei Y-M, Schäfer-Verwimp A, Zhu R-L (2013b) Phylogenetic position of *Oryzolejeunea* (Lejeuneaceae, Marchantiophyta): Evidence from molecular markers and morphology. *Journal of Systematics and Evolution* 51 (4): 468–475. doi: 10.1111/j.1759-6831.2012.00238.x
- Ye W, Gradstein SR, Shaw AJ, Ho BC, Schäfer-Verwimp A, Pócs T, Heinrichs J, Zhu R-L. (2015) Phylogeny and classification of Lejeuneaceae subtribe Cheilolejeuneinae (Marchantiophyta) based on nuclear and plastid molecular markers. *Cryptogamie, Bryologie* 36(4): 313–333. doi: 10.7872/cryb/v36.iss4.2015.313
- Yi Y-J, Fu X, Gao C (2001) A new species of *Herbertus* (Hepaticae) from China. *Acta Phytotaxonomica Sinica* 39 (1): 89–91.
- Yu Y, Pócs T, Schäfer-Verwimp A, Heinrichs J, Zhu R-L, Schneider H (2013) Evidence for rampant homoplasy in the phylogeny of the epiphyllous liverwort genus *Cololejeunea* (Lejeuneaceae). *Systematic Botany* 38 (3): 553–563. doi: 10.1600/036364413X670304
- Yu Y, Pócs T, Zhu R-L (2014) Notes on Early Land Plants Today. 62. A synopsis of *Myriocoleopsis* (Lejeuneaceae, Marchantiophyta) with special reference to transfer of *Cololejeunea minutissima* to *Myriocoleopsis*. *Phytotaxa* 183 (4): 293–297. doi: 10.11646/phytotaxa.183.4.11
- Yuzawa Y (1991) A monograph of subg. *Chonantherlia* of gen. *Frullania* (Hepaticae) of the world. *Journal of the Hattori Botanical Laboratory* 70: 181–291.
- Yuzawa Y, Hattori S (1983) A new *Frullania* species from Fukushima, Japan. *Journal of Japanese Botany* 58 (2): 43–45.
- Yuzawa Y, Hattori S (1988a) A new species of *Frullania* from Brazil. *Journal of Japanese Botany* 63 (1): 30–32.
- Yuzawa Y, Hattori S (1988b) A new species of *Frullania* from Haiti, West Indies. *Journal of Japanese Botany* 63 (11): 361–364.
- Yuzawa Y, Hattori S (1989) A new species of *Frullania* (Hepaticae) from Brazil. *Journal of Japanese Botany* 64 (2): 37–40.
- Yuzawa Y, Koike N (1994) A *Frullania* (Hepaticae) collection made by Dr. M. Higuchi in Nepal. *Journal of the Hattori Botanical Laboratory* 75: 193–199.
- Yuzawa Y, Mues R, Hattori S (1987) Morphological and chemical studies on the taxonomy of 14 *Frullania* species, subgenus *Chonantherlia*. *Journal of the Hattori Botanical Laboratory* 63: 425–436.

- Zartman CE, Ackerman IL (2002) A new species of *Vitalianthus* (Lejeuneaceae, Hepaticae) from the Brazilian Amazon. *Bryologist* 105 (2): 267–269. doi: 10.1639/0007-2745(2002)105[0267:ANSOVL]2.0.CO;2
- Zhou L-P, Zhang L, Xing F-W (2012) The genus *Bazzania* in China and adjacent regions. 1. *Bazzania dulongensis* L.-P.Zhou & L.Zhang sp. nov. and *Bazzania hainanensis* L.-P.Zhou & L.Zhang sp. nov. *Journal of Bryology* 34 (1): 22–31. doi: 10.1179/1743282011Y.0000000039
- Zhu R-L (1995) Notes on some species of the genus *Cololejeunea* (Lejeuneaceae, Hepaticae) in China. *Journal of the Hattori Botanical Laboratory* 78: 83–109.
- Zhu R-L (2006a) Taxonomy and distribution of *Cheilolejeunea krakakammae* (Lejeuneaceae, Jungermanniopsida, Marchantiophyta), with a description and illustrations of *Cheilolejeunea laevicalyx* from Bolivia, Colombia and Ecuador. *Nova Hedwigia* 83 (1/2): 187–198. doi: 10.1127/0029-5035/2006/0083-0187
- Zhu R-L (2006b) *Cololejeunea dauphinii* nom. nov. for *Cololejeunea tixieri* M. Morales & G. Dauphin from Panamá (Jungermanniopsida: Lejeuneaceae). *Journal of Bryology* 28 (3): 277. doi: 10.1179/174328206X157202
- Zhu R-L, Cheng X-F (2008) The status of *Amblyolejeunea* (Lejeuneaceae) from Ecuador and Guadeloupe. *Systematic Botany* 33 (4): 617–620. doi: 10.1600/036364408786500181
- Zhu R-L, Gradstein SR (2004) *Lopholejeunea minuta* R.L. Zhu & Gradst. (Lejeuneaceae, Hepaticae), a new species from the Solomon Islands, Pacific Oceania. *Nova Hedwigia* 78 (3/4): 435–438. doi: 10.1127/0029-5035/2004/0078-0435
- Zhu R-L, Gradstein SR (2005) Monograph of *Lopholejeunea* (Spruce) Schiffn. (Lejeuneaceae, Hepaticae) in Asia. *Monographs in Systematic Botany from the Missouri Botanical Garden* 74: 1–98.
- Zhu R-L, Grolle R (2002) *Metalejeunea winkleri* R.-L. Zhu & Grolle (Lejeuneaceae, Hepaticae), a new species from Borneo. *Nova Hedwigia* 74 (3/4): 497–500. doi: 10.1127/0029-5035/2002/0074-0497
- Zhu R-L, Müller F (2012) *Cheilolejeunea hyalomarginata*, a remarkable new species of Lejeuneaceae (Marchantiophyta) from New Caledonia. *Bryologist* 115 (2): 217–221. doi: 10.1639/0007-2745-115.2.217
- Zhu R-L, Reiner-Drehwald ME (2004) *Lejeunea boliviensis*, a remarkable species with bizarre underleaves and eplicate perianths. *Bryologist* 107 (2): 237–241. doi: 10.1639/0007-2745(2004)107[0237:LBARSW]2.0.CO;2
- Zhu R-L, So ML (1997a) A new record of the genus *Otolejeunea* (Hepaticae, Lejeuneaceae) in subtropical China. *Annales Botanici Fennici* 34 (4): 285–289.
- Zhu R-L, So ML (1997b) *Frullania fengyangshanensis* (Hepaticae), a new species from China. *Bryologist* 100 (3): 356–358. doi: 10.2307/3244504
- Zhu R-L, So ML (1998) A new species of *Otolejeunea* (Hepaticae, Lejeuneaceae) from the Philippines. *Systematic Botany* 23 (2): 231–234. doi: 10.2307/2419590
- Zhu R-L, So ML (1999a) A note on *Trachylejeunea chinensis* (Hepaticae, Lejeuneaceae). *Taxon* 48 (3): 489–492. doi: 10.2307/1224560
- Zhu R-L, So ML (1999b) *Cololejeunea zangii* (Hepaticae, Lejeuneaceae), a new epiphyllous species from China. *Systematic Botany* 24 (4): 501–505. doi: 10.2307/2419638
- Zhu R-L, So ML (2000) The genus *Tuyamaella* (Hepaticae, Lejeuneaceae) in China. *Nova Hedwigia* 70 (1/2): 185–192.

- Zhu R-L, So ML (2001) Epiphyllous liverworts of China. *Beihefte zur Nova Hedwigia* 121: 1–418.
- Zhu R-L, So ML (2002) Notes on *Taxilejeunea latilobula* Herzog (Marchantiopsida, Lejeuneaceae). *Journal of Bryology* 24 (2): 168–170. doi: 10.1179/037366802125001097
- Zhu R-L, Wang Y (1992) [A preliminary revision of epiphyllous liverworts from Dinghushan]. *Journal of East China Normal University: Natural Science Edition* 2: 90–97.
- Zhu R-L, Wei Y-M (2012) Taxonomic notes on *Trachylejeunea malangensis* Herzog (Lejeuneaceae) known from Borneo. *Journal of Bryology* 34 (4): 318–321. doi: 10.1179/1743282012Y.0000000010
- Zhu R-L, Hu R-L, Zhang G-Z (1994) Epiphyllous liverworts from Baishanzu Nature Reserve, Zhejiang Province, China. *Hikobia* 11: 543–547.
- Zhu R-L, So ML, Cao T, Gao Q (1999) *Neurolejeunea fukiensis* belongs to *Cheilolejeunea* (Lejeuneaceae, Hepaticae). *Taxon* 48 (4): 663–666. doi: 10.2307/1223637
- Zhu R-L, So ML, Grolle R (2000) *Cheilolejeunea gaoi* (Hepaticae, Lejeuneaceae), a new species from Guanxi, China. *Bryologist* 103 (3): 499–502. doi: 10.1639/0007-2745(2000)103[0499:CGHLAN]2.0.CO;2
- Zhu R-L, Zheng M, Zhao X (2004) Taxonomic studies on the genus *Cololejeunea* (Lejeuneaceae, Hepaticae). I. Notes on several little known species of Asia and Oceania. *Nova Hedwigia* 79 (3/4): 527–535. doi: 10.1127/0029-5035/2004/0079-0527
- Zhu R-L, Zheng M, Nan Z, Shi X-Q (2005) The genus *Ceratolejeunea* (Lejeuneaceae, Hepaticae) in China. *Cryptogamie, Bryologie* 26 (1): 91–96.
- Zhu R-L, Wei Y-M, He Q (2011) *Caudalejeunea tridentata*, a remarkable new species of Lejeuneaceae (Marchantiophyta) from China. *Bryologist* 114 (3): 469–473. doi: 10.1639/0007-2745-114.3.469
- Zhu R-L, Wei Y-M, Söderström L, Hagborg A, von Konrat MJ (2013) Notes on Early Land Plants Today. 25. *Lejeunea soae*, a new name for *Lejeunea chinensis*, hom. illeg. (Lejeuneaceae, Marchantiophyta). *Phytotaxa* 81 (1): 1–2. doi: 10.11646/phytotaxa.81.1.1
- Zuo B-R, Cao T, Guo S-L (2007a) Comparison and assessment of three East-Asian species of the genus *Scapania* (Hepaticae: Scapaniaceae). *Acta Phytotaxonomica Sinica* 45 (5): 742–750. doi: 10.1360/aps06028
- Zuo B-R, Cao T, Gao C, Sun J (2007b) *Scapania paraphyllia* Cao T, Gao C, Sun J, Zuo BR, a new species of Hepaticae (Scapaniaceae) from Zhejiang, China. *Acta Phytotaxonomica Sinica* 45 (3): 311–314. doi: 10.1360/aps06029
- Zwickel W (1933) Zwei neue Gattungen, einige neue Arten und Umstellungen bei den Lejeuneaceen. *Annales Bryologici* 6: 105–121.