

CORRECTION

Correction: A Higher Level Classification of All Living Organisms

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There are a number of errors in Tables 1 and 2. Please see the corrected Tables 1 and 2 here. The S1 Table Supporting Information file incorrectly spells "Pseudanabaenales" and is also corrected here.



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Table 1. List of ranks used in the hierarchy with the number of taxa per rank

| Rank | Number of Taxa |
|----------------|----------------|
| Superkingdom | 2 |
| Kingdom | 7 |
| Subkingdom | 11 |
| Infrakingdom | 8 |
| Superphylum | 6 |
| Phylum | 96 |
| Subphylum | 60 |
| Infraphylum | 4 |
| Superclass | 12 |
| Class | 352 |
| Subclass | 145 |
| Infraclass | 23 |
| Superorder | 52 |
| Order | 1,468 |

Main ranks are in bold type; unnamed taxa are not counted.

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Table 2. Proposed hierarchical classification from superkingdom to order.

| | | |
|---|----------------------------------|--|
| SUPERKINGDOM PROKARYOTA | | |
| KINGDOM ARCHAEA [= ARCHAEBACTERIA] | | |
| Phylum Crenarchaeota | | |
| | Class "Aigarchaeota" | Order N.N. ("Ca. <i>Caldiarchaeum</i> ") |
| | Class "Korarchaeota" | Order N.N. ("Ca. <i>Korarchaeum</i> ") |
| | Class "Thaumarchaeota" | Order Cenarchaeales |
| | | Class Thermoprotei [= Crenarchaeota] |
| | | Order Acidilobales |
| | | Order Desulfurococcales |
| | | Order Fervidicoccales |
| | | Order Sulfolobales |
| | | Order Thermoproteales |
| Phylum Euryarchaeota | | |
| | Class Archaeoglobi | Order Archaeoglobales |
| | Class Halobacteria | Order Halobacteriales |
| | Class Methanobacteria | Order Methanobacteriales |
| | Class Methanococci | Order Methanococcales |
| | Class "Methanomicrobia" | Order Methanocellales |
| | | Order Methanomicrobiales |
| | | Order Methanosarcinales |
| | Class Methanopyri | Order Methanopyrales |
| | Class "Nanohaloarchaea" | Order N.N. (e.g., "Ca. <i>Nanosalinarum</i> ") |
| | Class Thermococci | Order Thermococcales |
| | Class Thermoplasmata | Order Thermoplasmatales |
| KINGDOM BACTERIA [= EUBACTERIA] | | |
| SUBKINGDOM NEGIBACTERIA | | |
| Phylum Acidobacteria | | |
| | Class N.N. (<i>Bryobacter</i>) | |
| | Class Acidobacteria | |

(Continued)

Table 2. (Continued)

| | | |
|-------------------------------------|-------------------------|--------------------------------------|
| | | Order Acidobacteriales |
| | Class Holophagae | |
| | | Order Acanthopleuribacterales |
| | | Order Holophagales |
| Phylum Aquificae | | |
| | Class Aquificae | |
| | | Order Aquificales |
| Phylum Armatimonadetes | | |
| | Class Armatimonadia | |
| | | Order Armatimonadales |
| | Class Chthonomonadetes | |
| | | Order Chthonomonadales |
| | Class Fimbriimonadia | |
| | | Order Fimbriimonadales |
| Phylum Bacteroidetes | | |
| | Class Bacteroidia | |
| | | Order Bacteroidales |
| | Class Cytophagia | |
| | | Order Cytophagales |
| | Class Flavobacteria | |
| | | Order Flavobacteriales |
| | Class Sphingobacteria | |
| | | Order Sphingobacteriales |
| Phylum Caldiserica | | |
| | Class Caldiserica | |
| | | Order Caldisericales |
| Phylum Chlamydiae | | |
| | Class Chlamydiae | |
| | | Order Chlamydiales |
| Phylum Chlorobi | | |
| | Class Chlorobea | |
| | | Order Chlorobiales |
| | Class Ignavibacteria | |
| | | Order Ignavibacteriales |
| Phylum Chrysiogenetes | | |
| | Class Chrysiogenetes | |
| | | Order Chrysiogenales |
| Phylum Cyanobacteria [= Cyanophyta] | | |
| | | Class Cyanophyceae [= Phycobacteria] |
| | | Order Chroococcales |
| | | Order Nostocales |
| | | Order Oscillatoriales |
| | | Order Pseudanabaenales |

(Continued)

Table 2. (Continued)

| | | |
|---|------------------------|---|
| | | Order Synechococcales |
| | | Class Gloeobacteria [= Gloeobacterophyceae] |
| | | Order Gloeobacterales |
| Phylum Deferribacteres | | |
| | Class Deferribacteres | |
| | | Order Deferribacterales |
| Phylum Deinococcus-Thermus [= Hadobacteria] | | |
| | Class Deinococci | |
| | | Order Deinococcales |
| | | Order Thermales |
| Phylum Dictyoglomi | | |
| | Class Dictyoglomia | |
| | | Order Dictyoglomales |
| Phylum Elusimicrobia | | |
| | Class Elusimicrobia | |
| | | Order Elusimicrobiales |
| Phylum Fibrobacteres | | |
| | Class Fibrobacteria | |
| | | Order Fibrobacterales |
| Phylum Fusobacteria | | |
| | Class Fusobacteriia | |
| | | Order Fusobacteriales |
| Phylum Gemmatimonadetes | | |
| | Class Gemmatimonadetes | |
| | | Order Gemmatimonadales |
| Phylum Lentisphaerae | | |
| | Class Lentisphaeria | |
| | | Order Lentisphaerales |
| | | Order Victivallales |
| | Class Oligosphaeria | |
| | | Order Oligosphaerales |
| Phylum Nitrospira | | |
| | Class "Nitrospira" | |
| | | Order "Nitrospirales" |
| Phylum Planctomycetes | | |
| | Class Phycisphaerae | |
| | | Order Phycisphaerales |
| | Class Planctomycea | |
| | | Order Planctomycetales |
| Phylum Proteobacteria | | |

(Continued)

Table 2. (Continued)

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| Class Alphaproteobacteria |
| Order N.N. (e.g., <i>Breoghania</i>) |
| Order Caulobacterales |
| Order Kiloniellales |
| Order Kordiimonadales |
| Order Magnetococcales |
| Order "Parvularculales" |
| Order Rhizobiales |
| Order Rhodobacterales |
| Order Rhodospirillales |
| Order Rickettsiales |
| Order Sneathiellales |
| Order Sphingomonadales |
| Class Betaproteobacteria |
| Order N.N. (<i>Chitinivorax</i>) |
| Order Burkholderiales |
| Order Hydrogenophilales |
| Order Methylophilales |
| Order Neisseriales |
| Order Nitrosomonadales |
| Order "Procabacteriales" |
| Order Rhodocyclales |
| Class Deltaproteobacteria |
| Order N.N. (e.g., <i>Deferrisoma</i>) |
| Order Bdellovibrionales |
| Order Desulfarculales |
| Order Desulfobacterales |
| Order Desulfovibrionales |
| Order Desulfurellales |
| Order Desulfuromonadales |
| Order Myxococcales |
| Order Syntrophobacterales |
| Class Epsilonproteobacteria |
| Order Campylobacterales |
| Order Nautiliales |
| Class Gammaproteobacteria |
| Order N.N. (e.g., <i>Alkalimonas</i>) |
| Order Acidithiobacillales |
| Order Aeromonadales |
| Order Alteromonadales |
| Order Cardiobacterales |
| Order Chromatiales |
| Order "Enterobacteriales" |
| Order Legionellales |
| Order Methylococcales |
| Order Oceanospirillales |
| Order Orbales |
| Order Pasteurellales |

(Continued)

Table 2. (Continued)

| | | |
|---------------------------------------|-----------------------------|--------------------------------|
| | | Order Pseudomonadales |
| | | Order "Salinisphaerales" |
| | | Order Thiotrichales |
| | | Order "Vibrionales" |
| | | Order Xanthomonadales |
| | Class Zetaproteobacteria | |
| | | Order Mariprofundales |
| Phylum Spirochaetae | | |
| | Class "Spirochaetes" | |
| | | Order Spirochaetales |
| Phylum Synergistetes | | |
| | Class Synergistia | |
| | | Order Synergistales |
| Phylum Thermodesulfobacteria | | |
| | Class Thermodesulfobacteria | |
| | | Order Thermodesulfobacteriales |
| Phylum Thermotogae | | |
| | Class Thermotogae | |
| | | Order Thermotogales |
| Phylum Verrucomicrobia | | |
| | Class Opitutae | |
| | | Order Opitiales |
| | | Order Puniceococcales |
| | Class Verrucomicrobiae | |
| | | Order Verrucomicrobiales |
| SUBKINGDOM POSIBACTERIA | | |
| Phylum Actinobacteria | | |
| | Class Actinobacteria | |
| | | Order Acidimicrobiales |
| | | Order Actinomycetales |
| | | Order Bifidobacteriales |
| | | Order Coriobacteriales |
| | | Order Euzebyales |
| | | Order Gaiellales |
| | | Order Nitriliruptorales |
| | | Order Rubrobacteriales |
| | | Order Solirubrobacteriales |
| | | Order Thermoleophilales |
| Phylum Chloroflexi [= Chlorobacteria] | | |
| | Class Anaerolineae | |
| | | Order Anaerolineales |
| | Class Caldilineae | |
| | | Order Caldilineales |

(Continued)

Table 2. (Continued)

| | | |
|-------------------------------|---------------------------|------------------------------|
| | Class Chloroflexia | Order Chloroflexales |
| | | Order Herpetosiphonales |
| | Class Dehalococcoidia | Order Dehalococcoidales |
| | Class Ktedonobacteria | Order Ktedonobacterales |
| | | Order Thermogemmatisporales |
| | Class Thermomicrobia | Order Sphaerobacterales |
| | | Order Thermomicrobiales |
| Phylum Firmicutes | | |
| | Class Bacilli | Order Bacillales |
| | | Order Lactobacillales |
| | Class Clostridia | Order Clostridiales |
| | | Order Halanaerobiales |
| | | Order Natranaerobiales |
| | | Order Thermoanaerobacterales |
| | Class Erysipelotrichia | Order Erysipelotrichales |
| | Class Negativicutes | Order Selenomonadales |
| | Class Thermolithobacteria | Order Thermolithobacterales |
| Phylum Tenericutes | | |
| | Class Mollicutes | Order Acholeplasmatales |
| | | Order Anaeroplasmatales |
| | | Order Entomoplasmatales |
| | | Order Haloplasmatales |
| | | Order Mycoplasmatales |
| SUPERKINGDOM EUKARYOTA | | |
| KINGDOM PROTOZOA | | |
| SUBKINGDOM EOZOA | | |
| INFRAKINGDOM EUGLENOZOA | | |
| Phylum Euglenozoa | | |
| Subphylum N.N. | | |
| | Class Diplonemea | Order Diplonemida |

(Continued)

Table 2. (Continued)

| | | |
|-----------------------|-----------------------|---------------------------|
| | Class Kinetoplastea | |
| | | Order Bodonida |
| | | Order Prokinetoplastida |
| | | Order Trypanosomatida |
| | Subphylum Euglenoida | |
| | Class N. N. | |
| | | Order Petalomonadida |
| | | Order Ploetitiida |
| | Class Euglenophyceae | |
| | | Order Euglenida |
| | | Order Eutreptiida |
| | Class Peranemea | |
| | | Order Heteronemida |
| | | Order Peranemida |
| | | Order Rhabdomonadida |
| | Subphylum Symbiontida | |
| | Class Postgaardea | |
| | | Order Postgaardida |
| INFRAKINGDOM EXCAVATA | | |
| | Phylum Loukozoa | |
| | Subphylum Eolouka | |
| | Class Jakobea | |
| | | Order Jakobida |
| | Class Tsukubea | |
| | | Order Tsukubamonadida |
| | Subphylum Neolouka | |
| | Class Malawimonadea | |
| | | Order Malawimonadida |
| | Phylum Metamonada | |
| | Class Anaeromonadea | |
| | | Order Oxymonadida |
| | | Order Trimastigida |
| | Class Carpomonadea | |
| | | Order Carpediemonadida |
| | | Order Chilomastigida |
| | | Order Dysnectida |
| | Class Eopharyngea | |
| | | Order Diplomonadida |
| | | Order Retortamonadida |
| | Class Trichomonadea | |
| | | Order Cristamonadida |
| | | Order Spirotrichonymphida |
| | | Order Trichomonadida |

(Continued)

Table 2. (Continued)

| | | |
|--|---------------------------|-----------------------------------|
| | | Order Tritrichomonadida |
| | Class Trichonymphea | |
| | | Order Lophomonadida |
| | | Order Trichonymphida |
| | Phylum Percolozoa | |
| | Subphylum Pharyngomonada | |
| | Class Pharyngomonadea | |
| | | Order Pharyngomonadida |
| | Subphylum Tetramitia | |
| | Class Heterolobosea | |
| | | Order Acrasida |
| | | Order Schizopyrenida |
| | Class Lyromonadea | |
| | | Order Lyromonadida |
| | Class Percolatea | |
| | | Order Percolomonadida |
| | | Order Pseudociliatida |
| | SUBKINGDOM SARCOMASTIGOTA | |
| | Phylum Amoebozoa | |
| | Subphylum Conosa | |
| | Class Archamoebae | |
| | | Order Mastigamoebida |
| | | Order Pelobiontida |
| | | Order Rhizomastigida |
| | Class Dictyostelea | |
| | | Order Dictyostelida |
| | | Class Myxogastrea [= Myxomycetes] |
| | | Subclass Exosporeae |
| | | Order Ceratiomyxida |
| | | Subclass Myxogastria |
| | | Superorder Collumelidia |
| | | Order Echinosteliida |
| | | Order Fuscisporida |
| | | Superorder Lucisporidia |
| | | Order Liceida |
| | | Order Trichiida |
| | Class Protostelea | |
| | | Order Protostelida |
| | Class Variosea | |
| | | Order Artodiscida |
| | | Order Holomastigida |
| | | Order Phalansteriida |
| | | Order Varipodida |

(Continued)

Table 2. (Continued)

| | |
|--|-----------------------------------|
| Subphylum Lobosa | |
| Class Discosea | |
| Subclass Flabellinia | |
| | Order Dactylopodida |
| | Order Himatismenida |
| | Order Pellitida |
| | Order Stygamoebida |
| | Order Trichosida |
| | Order Vanellida |
| | Subclass Longamoebia |
| | Order Dermamoebida |
| | Order Centramoebida |
| | Order Thecamoebida |
| Class Tubulinea [= Lobosea] | |
| | Order Arcellinida |
| | Order Echinamoebida |
| | Order Euamoebida |
| | Order Leptomyxida |
| | Order Nolandida |
| Phylum Choanozoa [with Microsporidia, Animalia, and Fungi constitutes "Supergroup Opisthokonta"] | |
| Subphylum Choanofila | |
| Class Choanoflagellata | |
| | Order Acanthoecida |
| | Order Craspedida |
| Class Corallochytra | |
| | Order Corallochytrida |
| Class Filasterea | |
| | Order Ministeriida |
| Class Ichthyosporea | |
| | Order Dermocystida |
| | Order Eccrinida |
| Subphylum Paramyrcia | |
| Class Aphelidea | |
| | Order Aphelidida |
| Class Cristidiscoidea | |
| | Order Fonticulida |
| | Order Nucleariida |
| Class Rozellidea | |
| | Order Rozellida |
| Phylum Microsporidia [with Choanozoa, Animalia, and Fungi constitutes "Supergroup Opisthokonta"] | |
| Class Disporea | |
| | Order N.N. (e.g., <i>Nosema</i>) |
| Class Metchnikovellea | |
| | Order Metchnikovellida |

(Continued)

Table 2. (Continued)

| | | |
|--------------------------|------------------------|----------------------------------|
| | | Class Minisporea [= Microsporea] |
| | | Order Minisporida [= Minisporea] |
| | Class | |
| | Pleistophorea | |
| | | Order Pleistophorida |
| Phylum Sulcozoa | | |
| | Subphylum Apusozoa | |
| | | Class Breviatea |
| | | Order Breviatida |
| | | Class Thecomonadea |
| | | Order Apusomonadida |
| | Subphylum Varisulca | |
| | | Class Diphyllatea |
| | | Order Diphylleida |
| | | Class |
| | | Glissodiscea |
| | | Order Mantamonadida |
| | | Order Planomonadida |
| | | Class |
| | | Hilomonadea |
| | | Order Rigifilida |
| KINGDOM CHROMISTA | | |
| | SUBKINGDOM | |
| | HACROBIA | |
| | Phylum | |
| | N.N. | |
| | | Class Endohelea |
| | | Order Heliomonadida |
| | | Order Microhelida |
| | | Class |
| | | Picomonadea |
| | | Order Picomonadida |
| | | Class Telonemea |
| | | Order Telonemida |
| Phylum Cryptista | | |
| | Subphylum | |
| | Palpitia | |
| | | Class Palpitea |
| | | Order Palpitida |
| | Subphylum Rollomonadia | |
| | | Class Cryptophyceae |
| | | Order Cryptomonadales |
| | | Order Pyrenomonadales |
| | | Order Tetragonidiales |
| | | Class Goniomonadea |
| | | Order Goniomonadida |
| | | Class |
| | | Leucocryptea |
| | | Order Kathablepharida |

(Continued)

Table 2. (Continued)

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|--|--|
| Phylum Haptophyta | |
| | Class Coccolithophyceae [= Prymnesiophyceae] |
| | Order Coccolithales |
| | Order Coccochaerales |
| | Order Isochrysidales |
| | Order Phaeocystales |
| | Order Prymnesiales |
| | Order Syracosphaerales |
| | Order Zygodiscales |
| | Class Pavlovophyceae |
| | Order Pavloales |
| Phylum Heliozoa | |
| | Class Centrohelea |
| | Order Acanthocystida |
| | Order Pterocystida |
| SUBKINGDOM HAROSA [= "Supergroup SAR"] | |
| INFRAKINGDOM HALVARIA | |
| Superphylum Alveolata | |
| Phylum Ciliophora | |
| Subphylum Intramacronucleata | |
| | Class Armophorea |
| | Order Armophorida |
| | Order Clevelandellida |
| | Class Colpodea |
| | Order Bryometopida |
| | Order Bryophryida |
| | Order Bursariomorphida |
| | Order Colpodida |
| | Order Cytolophosidida |
| | Order Sorogenida |
| | Class Litostomatea |
| | Subclass Haptoria |
| | Order Cyclotrichiida |
| | Order Haptorida |
| | Order Pleurostomatida |
| | Subclass Trichostomatia |
| | Order Entodiniomorphida |
| | Order Macropodiniida |
| | Order Vestibuliferida |
| | Class Spirotrichea |
| | Subclass Choreotrichia |

(Continued)

Table 2. (Continued)

| | |
|-----------------------|--------------------------|
| | Order Tintinnida |
| | Subclass Hypotrichia |
| | Order Euplotida |
| | Order Kitiichida |
| | Subclass Licnophoria |
| | Order Licnophorida |
| | Subclass Oligotrichia |
| | Order Strombidiida |
| | Subclass Protocruziida |
| | Order Phacodiniida |
| | Order Protocruziida |
| | Subclass Stichotrichia |
| | Order Sporadotrichida |
| | Order Stichotrichida |
| | Order Urostylida |
| Class | |
| Nassophorea | |
| | Order Colpodiida |
| | Order Microthoracida |
| | Order Nassulida |
| | Order Synhymeniida |
| Class | |
| Oligohymenophorea | |
| | Subclass Apostomatia |
| | Order Apostomatida |
| | Order Astomatophorida |
| | Order Pilisuctorida |
| Subclass | |
| Astomatia | |
| | Order Astomatida |
| | Subclass Hymenostomatia |
| | Order Ophyroglenida |
| | Order Tetrahymenida |
| Subclass | |
| Peniculia | |
| | Order Peniculida |
| | Order Urocentrida |
| Subclass | |
| Peritrichia | |
| | Order Mobilida |
| | Order Sessilida |
| | Subclass Scuticociliatia |
| | Order Philasterida |
| | Order Pleuronematida |
| | Order Thigmatrichida |
| Class Phyllopharyngea | |
| | Subclass Chonotrichia |
| | Order Cryptogemmida |
| | Order Exogemmiida |

(Continued)

Table 2. (Continued)

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| | Subclass Cyrtophoria |
| | Order Chlamyodontida |
| | Order Dysteriida |
| | Subclass Rhynchodia |
| | Order Hypocomatida |
| | Order Rhynchodida |
| | Subclass Suctoria |
| | Order Endogenida |
| | Order Evaginogenida |
| | Order Exogenida |
| | Class Plagiopylea |
| | Order Odontostomatida |
| | Order Plagiopylida |
| | Class Prostomatea |
| | Order Prorodontida |
| | Order Prostomatida |
| | Subphylum Postciliodesmatophora |
| | Class Heterotrichea |
| | Order Heterotrichida |
| | Class Karyorelictea |
| | Order Loxodida |
| | Order Protoheterotrichida |
| | Order Protostomatida |
| | Phylum Miozoa |
| | Subphylum Myzozoa |
| | Infraphylum Apicomplexa |
| | Superclass Apicomonada |
| | Class Apicomonadea |
| | Order Chromerida |
| | Order Colpodellida |
| | Order Voromonadida |
| | Superclass Sporozoa |
| | Class N. N. |
| | Order Blastogregarinida |
| | Class Coccidiomorpha |
| | Subclass Coccidia |
| | Order Adeleida |
| | Order Eimeriida |
| | Order Ixorheida |
| | Subclass Coelotrophia |
| | Order Coelotrophiida [= Protococcidiida] |

(Continued)

Table 2. (Continued)

| | | |
|--|---------------------------|--|
| | Subclass Hematozoa | |
| | | Superorder Aconoidia |
| | | Order Nephromycida |
| | | Order Piroplasmida |
| | | Superorder Haemosporidia |
| | | Order Haemosporida |
| | Class Gregarinomorpha | |
| | | Subclass Cryptogregarina |
| | | Order Cryptogregarida (<i>Cryptosporidium</i>) |
| | | Subclass Histogregarina |
| | | Order Histogregarida |
| | | Subclass Orthogregarina |
| | | Order Arthrogregarida |
| | | Order Vermigregarida |
| | Class Paragregaria | |
| | | Order Archigregarinida |
| | | Order Stenophorida |
| | | Order Velocida |
| | Infraphylum Dinozoa | |
| | Superclass Dinoflagellata | |
| | Class Dinophyceae | |
| | Subclass N.N. | |
| | | Order Actiniscales |
| | | Order Blastodinales |
| | | Order Coccidinales |
| | | Order Dinamoebales |
| | | Order Lophodinales |
| | | Order Pyrocystales |
| | | Order Thoracosphaerales |
| | | Subclass Dinophysoidia |
| | | Order Dinophysidales |
| | | Order Nannoceratopsales |
| | | Subclass Gonyaulacoidia |
| | | Order Gonyaulacales |
| | | Order Gymnodiniales |
| | | Subclass Peridinoidia |
| | | Order Peridiniales |
| | | Order Procentrales |
| | Subclass Suessioidia | |
| | | Order Suessiales |
| | Class Ellobiopsea | |
| | | Order Ellobiopsida |
| | Class Noctilucea | |

(Continued)

Table 2. (Continued)

| | |
|--|---------------------------------------|
| | Order Noctilucida |
| Class Oxyrrhea | Order Acrocoelida |
| | Order Oxyrrhida |
| Class Syndinea | Order Rastrimonadida |
| | Order Syndinida |
| Superclass Perkinsozoa | |
| Class Myzomonadea | Order Algovorida |
| Class Perkinsea | Order Perkinsida |
| | Order Phagodinida |
| Class Squirmidea | Order Squirmida |
| Subphylum Protalveolata | |
| Class Colponemea | Order Colponemida |
| Superphylum Heterokonta [= "Supergroup Stramenopiles"] | |
| Phylum Bigyra | |
| Class Bikosea | Order Anoecida |
| | Order Bicoecida |
| | Order Borokida |
| | Order Pseudodendromonadida |
| | Order Rictida |
| Class Blastocystea | Order Blastocystida |
| Class Nanomonadea | Order Uniciliatida |
| Class Opalineae | Order Opalinida |
| | Order Proteromonadida |
| Class Labyrinthulea | Order Labyrinthulida |
| | Order Thraustochytriida |
| | Class Placididea [= Placidiophyceae] |
| | Order Placidiida |
| Phylum Ochrophyta [= Heterokontophyta p.p.] | |
| | Class Bacillariophyceae [= Diatomeae] |
| | Subclass Bacillariophycidae |
| | Order Achnanthes |
| | Order Bacillariales |
| | Order Cymbellales |

(Continued)

Table 2. (Continued)

| | |
|---------------|------------------------------------|
| | Order Dictyoneidales |
| | Order Eunotiales |
| | Order Lyrellales |
| | Order Mastogloiales |
| | Order Naviculales |
| | Order Rhopalodiales |
| | Order Surirellales |
| | Order Thalassiophysales |
| | Subclass Coscinodiscophycidae |
| | Order Anaulales |
| | Order Arachnoidiscales |
| | Order Asterolamprales |
| | Order Aulacoseirales |
| | Order Biddulphiales |
| | Order Chaetocerotales |
| | Order Chrysanthemodiscales |
| | Order Corethrales |
| | Order Coscinodiscales |
| | Order Cymatosirales |
| | Order Ethmodiscales |
| | Order Hemiaulales |
| | Order Leptocylindrales |
| | Order Lithodesmiales |
| | Order Melosirales |
| | Order Orthoseirales |
| | Order Paraliales |
| | Order Rhizosoleniales |
| | Order Stictocyclales |
| | Order Stictodiscales |
| | Order Thalassiosirales |
| | Order Triceratales |
| | Subclass Fragilariophycidae |
| | Order Ardissonales |
| | Order Climacospheniales |
| | Order Cyclophorales |
| | Order Fragiliales |
| | Order Licmophorales |
| | Order Protoraphidales |
| | Order Rhabdonematales |
| | Order Rhaphoneidales |
| | Order Striatellales |
| | Order Tabellariales |
| | Order Thalassionematales |
| | Order Toxariales |
| Class | |
| Bolidophyceae | |
| | Order Parmales [= Bolidomonadales] |

(Continued)

Table 2. (Continued)

| | |
|---|--------------------------------------|
| Class | |
| Chrysomerothyceae | Order Chrysomerales |
| Class Chrysothyceae | Order Chloramoebales |
| | Order Chromulinales |
| | Order Chrysothrales |
| | Order Heterogloeales |
| | Order Hibberdiales |
| | Order Hydrurales |
| | Order Ochromonadales |
| | Order Paraphysomonadida |
| | Order Synurales |
| | Order Thallochrysidales |
| Class Eustigmatophyceae | Order Eustigmatales |
| Class Dictyochophyceae [= Hypogyrystea] | Order Dictyochaetales |
| | Order Olisthodiscales |
| | Order Pedinellales |
| | Order Pelagomonadales |
| | Order Sarcinochrysidales |
| Class | |
| Phaeophyceae | Subclass Dictyophycidae |
| | Order Dictyotales |
| | Order Onslowiales |
| | Order Sphaelariales |
| | Order Syringodermatales |
| | Subclass Discosporangiophycidae |
| | Order Discosporangiales |
| | Subclass Fucophycidae |
| | Order Ascoseirales |
| | Order Asterocladales |
| | Order Desmarestiales |
| | Order Ectocarpales |
| | Order Fucales |
| | Order Laminariales |
| | Order Nemodermatales |
| | Order Phaeosiphoniellales |
| | Order Ralfsiales |
| | Order Scytothamniales |
| | Order Sporochneales |
| | Order Tilopteridales [= Cutleriales] |
| | Subclass Ishigeophycidae |
| | Order Ishigeales |
| Class Phaeothamniophyceae [= Aurophyceae] | Order Aurearenales |

(Continued)

Table 2. (Continued)

| | |
|-----------------------|---------------------------------------|
| | Order Phaeothamniales |
| | Class Picophagophyceae [= Picophagea] |
| | Order Picophagales |
| | Order Synchronomales |
| | Class Pinguioiphyceae |
| | Order Pinguiochrysidales |
| | Class Raphidophyceae |
| | Order Actinophryida |
| | Order Commatiida |
| | Order Raphidomonadales |
| | Class Schizocladiphyceae |
| | Order Schizocladiales |
| | Class Xanthophyceae |
| | Order Mischococcales |
| | Order Pleurochloridellales |
| | Order Tribonematales |
| | Order Vaucheriales |
| | Phylum Pseudofungi [= Oomycota] |
| | Class Bigyromonadea |
| | Order Developayellida |
| | Class Hyphochytrea |
| | Order Hyphochytriida |
| | Order Pirsoniida |
| | Class Oomycetes |
| | Subclass Eogamia |
| | Order Anisopidiales |
| | Order Haptoglossales |
| | Order Lagenismatales |
| | Order Olpidiopsidales |
| | Order Rozellopsidales |
| | Subclass Peronosporidae |
| | Order Peronosporales |
| | Order Pythiales |
| | Order Rhipidiales |
| | Subclass Saprolegniidae |
| | Order Albuginales |
| | Order Leptomitales |
| | Order Salligenidiales |
| | Order Saprolegniales |
| INFRAKINGDOM RHIZARIA | |
| Phylum Cercozoa | |
| Subphylum Endomyxa | |
| | Class Ascetosporea |
| | Order Claustrosporida |

(Continued)

Table 2. (Continued)

| | |
|------------------------|------------------------|
| | Order Haplosporida |
| | Order Paradinida |
| | Order Paramyxida |
| Class Gromiidea | |
| | Order Gromiida |
| | Order Reticulosida |
| Class Phytomyxea | |
| | Order Phagomyxida |
| | Order Plasmodiophorida |
| Class Vampyrellidea | |
| | Order Vampyrellida |
| Subphylum Monadofilosa | |
| Class Imbricatea | |
| Subclass Placonuda | |
| | Order Discocelida |
| | Order Discomonadida |
| | Order Euglyphida |
| | Order Marimonadida |
| | Order Variglissida |
| Subclass Placoperla | |
| | Order Perlofilida |
| | Order Rotosphaerida |
| | Order Spongomonadida |
| | Order Thaumatomonadida |
| | Order Zoelucasida |
| Class Metromonadea | |
| | Order Metopiida |
| | Order Metromonadida |
| Class Sarcomonadea | |
| | Order Cercomonadida |
| | Order Glissomonadida |
| | Order Pansomonadida |
| | Order Pseudosporida |
| | Order Sainouroida |
| Class Thecofilosea | |
| Subclass Eothecia | |
| | Order Cryomonadida |
| | Order Ebrida |
| | Order Matazida |
| | Order Ventricleftida |
| | Subclass Phaeodaria |
| | Order Eodarida |
| | Order Opaloconchida |

(Continued)

Table 2. (Continued)

| | | |
|--------------------------|-------------------------|----------------------|
| | Subclass | |
| | Tectosia | |
| | | Order Tectofilosida |
| Subphylum Reticulofilosa | | |
| | Class | |
| | Chlorarachnea | Order Chlorarachnida |
| | Class | |
| | Granofilosea | Order Cryptofilida |
| | | Order Desmothoracida |
| | | Order Leucodictyida |
| | | Order Limnofilida |
| | Class | |
| | Skiomonadea | Order Tremulida |
| Phylum Retaria | | |
| Subphylum Foraminifera | | |
| | Class Monothalamea | |
| | | Order Allogromiida |
| | | Order Astrorhizida |
| | | Order Psamminida |
| | | Order Stannomida |
| | Class Globothalamea | |
| | | Order Carterinida |
| | | Order Globeriginida |
| | | Order Lagenida |
| | | Order Lituolida |
| | | Order Lofusiida |
| | | Order Robertinida |
| | | Order Rotaliida |
| | | Order Testulariida |
| | | Order Trochamminida |
| | Class Tubothalamea | |
| | | Order Miliolida |
| | | Order Spirillinida |
| Subphylum Radiozoa | | |
| | Superclass Polycystinia | |
| | Class Polycystinea | |
| | | Order Collodarida |
| | | Order Nassellaria |
| | | Order Spumellaria |
| | Superclass Spasmaria | |
| | Class Acantharea | |
| | | Order Arthracanthida |
| | | Order Chaunacanthida |
| | | Order Holacanthida |

(Continued)

Table 2. (Continued)

| | | |
|--------------------------|----------------------------------|--------------------------------|
| | | Order Symphyacanthida |
| | Class Sticholonchea | |
| | | Order Taxopodida |
| KINGDOM FUNGI | | |
| | SUBKINGDOM DIKARYA [= NEOMYCOTA] | |
| | Phylum Ascomycota | |
| | Subphylum Pezizomycotina | |
| | Class Archaeorhizomycetes | |
| | | Order Archaeorhizomycetales |
| | | Order Lahmiales |
| | | Order Triblidiales |
| | Class Arthoniomycetes | |
| | | Order Arthoniales |
| | Class Dothideomycetes | |
| | Subclass N.N. | |
| | | Order Acrospermales |
| | | Order Botryosphaeriales |
| | | Order Hysteriales |
| | | Order Jahnulales |
| | | Order Koralionastetales |
| | | Order Patellariales |
| | | Order Trypetheliales |
| | | Subclass Dothideomycetidae |
| | | Order Capnodiales |
| | | Order Dothideales |
| | | Order Microthyriales |
| | | Order Myriangiales |
| | | Subclass Meliolomycetidae |
| | | Order Meliolales |
| | | Subclass Pleosporomycetidae |
| | | Order Mytilinidiales |
| | | Order Pleosporales |
| | Class Eurotiomycetes | |
| | | Subclass Chaetothyriomycetidae |
| | | Order Chaetothyriales |
| | | Order Pyrenulales |
| | | Order Verrucariales |
| | | Subclass Eurotiomycetidae |
| | | Order Arachnomycetales |
| | | Order Ascosphaerales |
| | | Order Coryneliales |
| | | Order Eurotiales |
| | | Order Onygenales |

(Continued)

Table 2. (Continued)

| | |
|-----------------------|-------------------------------|
| | Subclass Mycocaliciomycetidae |
| | Order Mycocaliciales |
| Class | |
| Laboulbeniomycetes | |
| | Order Laboulbeniales |
| | Order Pyxidiophorales |
| Class Lecanoromycetes | |
| Subclass | |
| N.N. | |
| | Order Candelariales |
| | Order Umbilicariales |
| | Subclass Acarosporomycetidae |
| | Order Acarosporales |
| | Subclass Lecanoromycetidae |
| | Order Lecanorales |
| | Order Lecideales |
| | Order Peltigerales |
| | Order Rhizocarpales |
| | Order Teloschistales |
| | Subclass Ostropomycetidae |
| | Order Agyriales |
| | Order Baeomycetales |
| | Order Ostropales |
| | Order Pertusariales |
| Class | |
| Leotiomycetes | |
| | Order Cyttariales |
| | Order Erysiphales |
| | Order Geoglossales |
| | Order Helotiales |
| | Order Leotiales |
| | Order Mediolariales |
| | Order Rhytismatales |
| | Order Thelebolales |
| Class Lichinomycetes | |
| | Order Eremithallales |
| | Order Lichinales |
| Class Orbiliomycetes | |
| | Order Orbiliales |
| Class | |
| Pezizomycetes | |
| | Order Pezizales |
| Class Sordariomycetes | |
| Subclass | |
| N.N. | |
| | Order Phyllachorales |
| | Order Trichosphaeriales |
| | Subclass Hypocreomycetidae |
| | Order Coronophorales |

(Continued)

Table 2. (Continued)

| | |
|----------------------------|---------------------------------|
| | Order Hypocreales |
| | Order Melanosporales |
| | Order Microascales |
| | Subclass Sordariomycetidae |
| | Order Boliniales |
| | Order Calosphaeriales |
| | Order Chaetosphaeriales |
| | Order Coniochaetales |
| | Order Diaporthales |
| | Order Ophiostomatales |
| | Order Sordariales |
| | Subclass Spathulosporomycetidae |
| | Order Lulworthiales |
| | Subclass Xylariomycetidae |
| | Order Xylariales |
| Subphylum Saccharomycotina | |
| Class Saccharomycetes | Order Saccharomycetales |
| Subphylum Taphrinomycotina | |
| Class Neoelectomycetes | Order Neoelectales |
| | Class Pneumocystidomycetes |
| | Order Pneumocystidales |
| | Class Schizosaccharomycetes |
| | Order Schizosaccharomycetales |
| Class Taphrinomycetes | Order Taphrinales |
| Phylum Basidiomycota | |
| Class Entorrhizomycetes | Order Entorrhizales |
| | Order Wallemiales |
| Subphylum Agaricomycotina | |
| Class Agaricomycetes | Subclass N.N. |
| | Order Auriculariales |
| | Order Cantharellales |
| | Order Corticiales |
| | Order Gloeophyllales |
| | Order Hymenochaetales |
| | Order Polyporales |
| | Order Russulales |
| | Order Sebaciniales |
| | Order Thelephorales |
| | Order Trechisporales |
| | Subclass Agaricomycetidae |
| | Order Agaricales |
| | Order Atheliales |
| | Order Boletales |

(Continued)

Table 2. (Continued)

| | |
|------------------------------|-------------------------------|
| | Subclass Phallomycetidae |
| | Order Geastrales |
| | Order Gomphales |
| | Order Hysterangiales |
| | Order Phallales |
| Class | |
| Dacrymycetes | Order Dacrymycetales |
| Class Tremellomycetes | |
| | Order Cystofilobasidiales |
| | Order Filobasidiales |
| | Order Tremellales |
| Subphylum Pucciniomycotina | |
| Class | |
| Agaricostilbomycetes | Order Agaricostilbales |
| | Order Spiculogloeales |
| Class Atractiellomycetes | Order Atractiellales |
| Class Classiculomycetes | Order Classiculales |
| | Class Cryptomycocolacomycetes |
| | Order Cryptomycocolacales |
| Class | |
| Cystobasidiomycetes | Order Cystobasidiales |
| | Order Erythrobasidiales |
| | Order Naohideales |
| Class Microbotryomycetes | Order Hetrogastridiales |
| | Order Leucosporidiales |
| | Order Microbotryales |
| | Order Sporidiobolales |
| Class | |
| Mixiomycetes | Order Mixiales |
| Class Pucciniomycetes | Order Helicobasidiales |
| | Order Pachnocybales |
| | Order Platygloeales |
| | Order Pucciniales |
| | Order Septobasidiales |
| Subphylum Ustilaginomycotina | |
| Class N. | |
| N. | Order Malasseziales |
| Class Exobasidiomycetes | Order Ceraceosorales |
| | Order Doassansiales |

(Continued)

Table 2. (Continued)

| | |
|---------------------------------|---|
| | Order Entylomatales |
| | Order Exobasidiales |
| | Order Georgefischeriales |
| | Order Microstromatales |
| | Order Tilletiales |
| | Class Ustilaginomycetes |
| | Order Urocystidales |
| | Order Ustilaginales |
| SUBKINGDOM EOMYCOTA | |
| Phylum Chytridiomycota | |
| | Class Blastocladiomycetes [= Allomycetes] |
| | Order Blastocladales |
| | Class Chytridiomycetes |
| | Order Chytridiales |
| | Order Lobulomycetales |
| | Order Neocallimastigales |
| | Order Olpidiales |
| | Order Rhizophlyctidales |
| | Order Rhizophydiales |
| | Order Spizellomycetales |
| | Class Monoblepharidomycetes |
| | Order Monoblepharidales |
| Phylum Glomeromycota | |
| | Class Glomeromycetes [= Glomomycetes] |
| | Order Archaeosporales |
| | Order Diversisporales |
| | Order Glomerales |
| | Order Paraglomerales |
| Phylum Zygomycota | |
| Subphylum N.N. | |
| | Class N. N. |
| | Order Basidiobolales |
| Subphylum Entomophthoromycotina | |
| | Class N. N. |
| | Order Entomophthorales |
| Subphylum Kickxellomycotina | |
| | Class N. N. |
| | Order Asellariales |
| | Order Dimargaritales |
| | Order Harpellales |
| | Order Kickxellales |
| Subphylum Mortierellomycotina | |
| | Class N. N. |

(Continued)

Table 2. (Continued)

| | | |
|---------------------------------|------------------------------|-------------------------------|
| | | Order Mortierellales |
| | Subphylum Mucoromycotina | |
| | Class N. N. | |
| | | Order Endogonales |
| | | Order Mucorales |
| | Subphylum Zoopagomycotina | |
| | Class N. N. | |
| | | Order Zoopagales |
| KINGDOM PLANTAE | | |
| SUBKINGDOM BILIPHYTA | | |
| | Phylum Glaucophyta | |
| | | Class Glaucophyceae |
| | | Order Glaucocystales |
| | Phylum Rhodophyta | |
| | Subphylum Cyanidiophytina | |
| | | Class Cyanidiophyceae |
| | | Order Cyanidiales |
| | Subphylum Eurhodophytina | |
| | | Class Bangiophyceae |
| | | Order Bangiales |
| | | Order Goniotrichales |
| | | Class Florideophyceae |
| | | Subclass N.N. |
| | | Order Rhodachlyales |
| | | Subclass Ahnfeltiophycidae |
| | | Order Ahnfeltiales |
| | | Order Pihelliales |
| | | Subclass Corallinophycidae |
| | | Order Corallinales |
| | | Order Rhodogorgonales |
| | | Order Sporolithales |
| | | Subclass Hildenbrandiophyceae |
| | | Order Hildenbrandiales |
| | | Subclass Nemaliophycidae |
| | | Order Acrochaetiales |
| | | Order Balbianiales |
| | | Order Balliales |
| | | Order Batrachospermales |
| | | Order Colaconematales |
| | | Order Entwisleiales |
| | | Order Nemaliales |

(Continued)

Table 2. (Continued)

| | |
|--------------------------|--|
| | Order Palmariales |
| | Order Thoreales |
| | Subclass Rhodmeniophycidae |
| | Order Acrosymphytales |
| | Order Bonnemaisoniales |
| | Order Ceramiales |
| | Order Gelidiales |
| | Order Gigartinales |
| | Order Gracilariales |
| | Order Halymeniales |
| | Order Nemastomatales |
| | Order Peyssonneliales |
| | Order Plocamiales |
| | Order Rhodymeniales |
| | Order Sebdeniales |
| | Subphylum Metarhodophytina |
| | Class Compsopogonophyceae |
| | Order Compsopogonales |
| | Order Erythropeltidales |
| | Order Rhodochaetales |
| | Subphylum Rhodellophytina |
| | Class Porphyridiophyceae |
| | Order Porphyridiales |
| | Class Rhodellophyceae |
| | Order Dixonellales |
| | Order Glaucosphaerales |
| | Order Rhodellales |
| | Class |
| | Stylonematophyceae |
| | Order Rufusiales |
| | Order Stylonematales |
| SUBKINGDOM VIRIDIPLANTAE | |
| INFRAKINGDOM | |
| CHLOROPHYTA | |
| Phylum | |
| Chlorophyta | |
| Subphylum Chlorophytina | |
| | Class Chlorodendrophyceae |
| | Order Chlorodendrales |
| | Class Chlorophyceae |
| | Order N.N. (e.g., Chlorangiopsidaceae) |
| | Order Chaetopeltidales |
| | Order Chaetophorales |
| | Order Chlamydomonadales [= Volvocales] |
| | Order Oedogoniales |
| | Order Sphaeropleales |
| | Class Pedinophyceae |
| | Order Marsupiomonadales |
| | Order Pedinomonadales |

(Continued)

Table 2. (Continued)

| | |
|--|-----------------------------|
| | Order Scourfieldiales |
| Class Trebouxiophyceae | Order Chlorellales |
| | Order Microthamniales |
| | Order Phyllosiphonales |
| | Order Prasiolales |
| | Order Trebouxiales |
| Class Ulvophyceae | Order Bryopsidales |
| | Order Cladophorales |
| | Order Dasycladales |
| | Order Oltmansiellopsidales |
| | Order Scotinosphaerales |
| | Order Trentepohliales |
| | Order Ulotrichales |
| | Order Ulvales |
| Subphylum Prasinophytina | |
| Class Mamiellophyceae | Order Dolichomastigales |
| | Order Mamiellales |
| | Order Monomastigales |
| Class Nephrophyceae [= Nephroselmidophyceae] | Order Nephroselmidales |
| Class Pyramimonadophyceae | Order Palmophyllales |
| | Order Prasinococcales |
| | Order Pseudoscourfieldiales |
| | Order Pyramimonadales |
| INFRAKINGDOM STREPTOPHYTA | |
| Superphylum Charophyta | |
| Phylum Charophyta | |
| Class Charophyceae | Order Charales |
| Class Chlorokybophyceae | Order Chlorokybales |
| Class Coleochaetophyceae | Order Chaetosphaeridiales |
| | Order Coleochaetales |
| Class Conjugatophyceae [= Zygnematophyceae] | Order Desmidiiales |
| | Order Zygnematales |
| Class Klebsormidiophyceae | Order Klebsormidiales |

(Continued)

Table 2. (Continued)

| | |
|-------------------------|----------------------------|
| | Class Mesostigmatophyceae |
| | Order Mesostigmatales |
| Superphylum Embryophyta | |
| Phylum Anthocerotophyta | |
| | Class Anthocerotopsida |
| | Subclass Anthocerotidae |
| | Order Anthocerotales |
| | Subclass Dendrocerotidae |
| | Order Dendrocerotales |
| | Order Phymatocerales |
| | Subclass Notothylatidae |
| | Order Notothyladales |
| | Class Leiosporocerotopsida |
| | Order Leiosporocerotales |
| Phylum Bryophyta | |
| | Class Andreaeobryopsida |
| | Order Andreaeobryales |
| | Class Andreaeopsida |
| | Order Andreaeales |
| | Class Bryopsida |
| | Subclass Bryidae |
| | Order Bartramiales |
| | Order Bryales |
| | Order Hedwigiales |
| | Order Hookeriales |
| | Order Hypnales |
| | Order Hypnodendrales |
| | Order Orthotrichales |
| | Order Ptychomniales |
| | Order Rhizogoniales |
| | Order Splachnales |
| | Subclass Buxbaumiidae |
| | Order Buxbaumiales |
| | Subclass Dicranidae |
| | Order Archidiales |
| | Order Bryoxiphiales |
| | Order Dicranales |
| | Order Grimmiales |
| | Order Pottiales |
| | Order Scouleriales |
| | Subclass Diphysciidae |
| | Order Diphysciales |
| | Subclass Funariidae |
| | Order Encalyptales |

(Continued)

Table 2. (Continued)

| | |
|----------------------------|--------------------------|
| | Order Funariales |
| | Order Gigaspermales |
| Subclass | |
| Timmidae | Order Timmiales |
| Class Oedipodiopsida | Order Oedipodiales |
| Class Polytrichopsida | Order Polytrichales |
| Class | |
| Sphagnopsida | Order Ambuchananiales |
| | Order Sphagnales |
| Class | |
| Takakiopsida | Order Takakiales |
| Class Tetrarhizopsida | Order Tetrarhizales |
| Class Haplomitriopsida | Order Haplomitriales |
| Class Jungermanniopsida | Order Calobryales |
| | Order Treubiales |
| Subclass Jungermanniidae | |
| Order Jungermanniales | |
| Order Porellales | |
| Order Ptilidiales | |
| Subclass Metzgeriidae | |
| Order Metzgeriales | |
| Order Pleuroziales | |
| Subclass Pelliidae | |
| Order Fossombroniales | |
| Order Pallaviciniales | |
| Order Pelliiales | |
| Class Marchantiopsida | Order Blasiales |
| | Order Lunulariales |
| | Order Marchantiales |
| | Order Neohodgsoniales |
| | Order Sphaerocarpaceales |
| Phylum Tracheophyta | |
| Subphylum Lycopodiophytina | |
| Class Lycopodiopsida | Order Isoetales |
| | Order Lycopodiales |
| | Order Selaginellales |
| Subphylum Polypodiophytina | |
| Class Polypodiopsida | |

(Continued)

Table 2. (Continued)

| | |
|--|--|
| | Subclass Equisetidae |
| | Order Equisetales |
| | Subclass Marattiidae |
| | Order Marattiales |
| | Subclass Ophioglossidae [= Psilotidae] |
| | Order Ophioglossales |
| | Order Psilotales |
| | Subclass Polypodiidae |
| | Order Cyatheaes |
| | Order Gleicheniales |
| | Order Hymenophyllales |
| | Order Osmundales |
| | Order Polypodiales |
| | Order Salviniales |
| | Order Schizaeales |
| | Subphylum Spermatophytina |
| | Superclass "Angiospermae" |
| | Class Magnoliopsida |
| | Superorder N.N. |
| | Order N.N. (e.g., Icacinaceae) |
| | Superorder Amborellanae |
| | Order Amborellales |
| | Superorder Asteranae |
| | Order Apiales |
| | Order Aquifoliales |
| | Order Asterales |
| | Order Boraginales |
| | Order Bruniales |
| | Order Cornales |
| | Order Dipsacales |
| | Order Ericales |
| | Order Escalloniales |
| | Order Garryales |
| | Order Gentianales |
| | Order Lamiales |
| | Order Paracryphiales |
| | Order Solanales |
| | Superorder Austrobaileyanae |
| | Order Austrobaileyales |
| | Superorder Berberidopsidanae |
| | Order Berberidopsidales |
| | Superorder Buxanae |
| | Order Buxales |
| | Superorder Caryophyllanae |
| | Order Caryophyllales |
| | Superorder Ceratophyllanae |

(Continued)

Table 2. (Continued)

| |
|---|
| Order Ceratophyllales |
| Superorder Dilleniaceae |
| Order Dilleniaceae |
| Superorder Liliales [= Monocotyledones] |
| Order Acorales |
| Order Alismatales |
| Order Arecales |
| Order Asparagales |
| Order Commelinales |
| Order Dasypogonales |
| Order Dioscoreales |
| Order Liliales |
| Order Pandanales |
| Order Petrosaviales |
| Order Poales |
| Order Zingiberales |
| Superorder Magnoliales |
| Order Canellales |
| Order Chloranthales |
| Order Laurales |
| Order Magnoliales |
| Order Piperales |
| Superorder Myrothamnaceae |
| Order Gunnerales |
| Superorder Nymphaeales |
| Order Nymphaeales |
| Superorder Proteales |
| Order Proteales |
| Superorder Ranunculales |
| Order Ranunculales |
| Superorder Rosales |
| Order Brassicales |
| Order Celastrales |
| Order Crossosomatales |
| Order Cucurbitales |
| Order Fabales |
| Order Fagales |
| Order Geraniales |
| Order Huerteales |
| Order Malpighiales |
| Order Malvales |
| Order Myrtales |
| Order Oxalidales |
| Order Picramniales |
| Order Rosales |
| Order Sapindales |
| Order Vitales |
| Order Zygophyllales |

(Continued)

Table 2. (Continued)

| | |
|-------------------------|---------------------------------|
| | Superorder Santalanae |
| | Order Santalales |
| | Superorder Saxifraganae |
| | Order Saxifragales |
| | Superorder Trochodendrae |
| | Order Trochodendrales |
| | Superclass "Gymnospermae" |
| | Class |
| | Cycadopsida |
| | Subclass |
| | Cycadidae |
| | Order Cycadales |
| | Class |
| | Ginkgoopsida |
| | Subclass Ginkgooidae |
| | Order Ginkgoales |
| | Class Gnetopsida |
| | Subclass |
| | Gnetidae |
| | Order Gnetales |
| | Class Pinopsida |
| | Subclass Pinidae |
| | Order Pinales |
| KINGDOM ANIMALIA | |
| SUBKINGDOM | |
| N.N. | |
| Phylum Cnidaria | |
| Subphylum Anthozoa | |
| Class Anthozoa | |
| | Subclass Hexacorallia |
| | Order Actinaria |
| | Order Antipatharia |
| | Order Ceriantharia |
| | Order Corallimorpharia |
| | Order Scleractinia |
| | Order Zoantharia [= Zoanthidea] |
| | Subclass Octocorallia |
| | Order Alcyonacea |
| | Order Helioporacea |
| | Order Pennatulacea |
| Subphylum Medusozoa | |
| Class Cubozoa | |
| | Order Carybdeida |
| | Order Chirodropida |
| Class Hydrozoa | |
| | Subclass Hydroidolina |
| | Order Anthoathecata |
| | Order Gonoproxima |
| | Order Leptothecata |

(Continued)

Table 2. (Continued)

| | | |
|--|------------------------|---|
| | | Order Siphonophorae |
| | Subclass Trachylina | |
| | | Order Actinulida |
| | | Order Limnomedusae |
| | | Order Narcomedusae |
| | | Order Trachymedusae |
| | Class Polypodiozoa | |
| | | Order Polypodiidea |
| | Class Scyphozoa | |
| | | Order Coronatae |
| | | Order Rhizostomeae |
| | | Order Semaestomeae |
| | Class Staurozoa | |
| | | Order Stauromedusae |
| | Subphylum Myxozoa | |
| | Class Malacosporea | |
| | | Order Malacovalvulida |
| | Class Myxosporea | |
| | | Order Bivalvulida |
| | | Order Multivalvulida |
| | Phylum Ctenophora | |
| | Class Nuda | |
| | | Order Beroida |
| | Class Tentaculata | |
| | | Order Cambojiida |
| | | Order Cestida |
| | | Order Cryptobiferida |
| | | Order Cydippida |
| | | Order Ganeshida |
| | | Order Lobata |
| | | Order Platyctenida |
| | | Order Thalassocalycida |
| | Phylum Placozoa | |
| | | Class Placozoa (<i>Trichoplax</i>) |
| | Phylum Porifera | |
| | Class Calcarea | |
| | | Order Baerida |
| | | Order Clathrinida |
| | | Order Leucosolenida |
| | | Order Lithonida |
| | | Order Murrayonida |

(Continued)

Table 2. (Continued)

| | | |
|--------------------------|------------------------|-------------------------|
| | Class Demospongiae | |
| | | Order Agelasida |
| | | Order Astrophorida |
| | | Order Chondrosida |
| | | Order Dendroceratida |
| | | Order Dictyoceratida |
| | | Order Hadromerida |
| | | Order Halichondrida |
| | | Order Haplosclerida |
| | | Order Lithistida |
| | | Order Poecilosclerida |
| | | Order Spirophorida |
| | | Order Verongida |
| | Class Hexactinellida | |
| | | Order Amphidiscosida |
| | | Order Aulocalycoida |
| | | Order Fieldingida |
| | | Order Hexactinosida |
| | | Order Lychniscosida |
| | | Order Lyssacinosida |
| | Class Homoscleromorpha | |
| | | Order Homosclerophorida |
| SUBKINGDOM | | |
| BILATERIA | | |
| INFRAKINGDOM PROTOSTOMIA | | |
| Superphylum N. | | |
| N. | | |
| Phylum Chaetognatha | Class Sagittoidea | |
| | | Order Aphragmophora |
| | | Order Phragmophora |
| Phylum Orthonectida | | Order Plasmodigenea |
| Phylum Rhombozoa | | Order Dicyemida |
| | | Order Heterocyemida |
| Superphylum Ecdysozoa | | |
| Phylum Arthropoda | Class Arachnida | |
| Subphylum Chelicerata | | Superorder N.N. |
| | | Order Amblypygi |
| | | Order Araneae |
| | | Order Opiliones |
| | | Order Palpigradi |
| | | Order Pseudoscorpiones |

(Continued)

Table 2. (Continued)

| | |
|--|---------------------------|
| | Order Ricinulei |
| | Order Schizomida |
| | Order Scorpiones |
| | Order Solifugae |
| | Order Uropygi |
| | Superorder Acariformes |
| | Order Sarcoptiformes |
| | Order Trombidiformes |
| | Superorder Parasitiformes |
| | Order Holothyrida |
| | Order Ixodida |
| | Order Mesostigmata |
| | Order Opilioacarida |
| | Class Merostomata |
| | Order Xiphosura |
| | Class Pycnogonida |
| | Order Pantopoda |
| | Subphylum Crustacea |
| | Class Branchiopoda |
| | Order Anostraca |
| | Order Diplostraca |
| | Order Laevicaudata |
| | Order Notostraca |
| | Class Cephalocarida |
| | Order Brachypoda |
| | Class Malacostraca |
| | Subclass Eumalacostraca |
| | Superorder Eucarida |
| | Order Amphionidacea |
| | Order Decapoda |
| | Order Euphausiacea |
| | Superorder Peracarida |
| | Order Amphipoda |
| | Order Bochsusea |
| | Order Cumacea |
| | Order Isopoda |
| | Order Lophogastrida |
| | Order Mictacea |
| | Order Mysida |
| | Order Spelaeogriphacea |
| | Order Tanaidacea |
| | Order Thermosbaenacea |
| | Superorder Syncarida |
| | Order Anaspidacea |

(Continued)

Table 2. (Continued)

| | |
|-----------------|--|
| | Order Bathynellacea |
| | Subclass Hoplocarida |
| | Order Stomatopoda |
| | Subclass Phyllocarida |
| | Order Leptostraca |
| Class | |
| Maxillopoda | |
| | Subclass |
| | Branchiura |
| | Order Arguloida |
| | Subclass |
| | Copepoda |
| | Infraclass Necopepoda |
| | Superorder Gymnoplea |
| | Order Calanoida |
| | Superorder Podoplea |
| | Order Cyclopoida |
| | Order Gelyelloida |
| | Order Harpacticoida |
| | Order Misophrioida |
| | Order Monstrilloida |
| | Order Mormonilloida |
| | Order Siphonostomatoida |
| | Infraclass Progymnoplea |
| | Order Platycopioida |
| | Subclass Mystacocarida |
| | Order Mystacocaridida |
| | Subclass Pentastomida |
| | Order Cephalobaenida |
| | Order Porocephalida |
| | Subclass Tantulocarida (e.g., Basipodellidae) |
| | Subclass Thecostraca |
| | Infraclass Ascothoracida |
| | Order Dendrogastrida |
| | Order Laurida |
| | Infraclass Cirripedia |
| | Superorder Acrothoracica |
| | Order Cryptophialida |
| | Order Lithoglyptida |
| | Superorder Rhizocephala |
| | Order Akentronida |
| | Order Kentronida |
| | Superorder Thoracica |
| | Order Ibliformes |
| | Order Lepadiformes |
| | Order Scalpelliformes |
| | Order Sessilia |
| | Infraclass Facetotecta (<i>Hansenocaris</i>) |
| Class Ostracoda | |

(Continued)

Table 2. (Continued)

| | |
|--------------------|--------------------------------------|
| | Order Halocyprida |
| | Order Myodocopida |
| | Order Paleocopida |
| | Order Platycopida |
| | Order Podocopida |
| Class Remipedia | |
| | Order Nectiopoda |
| Subphylum Hexapoda | |
| Class Collembola | |
| | Order Entomobryomorpha |
| | Order Neelipleona |
| | Order Poduromorpha |
| | Order Symphyleona |
| Class Diplura | |
| | Order N.N. (e.g., <i>Japygidae</i>) |
| Class Insecta | |
| | Subclass Archaeognatha |
| | Order Archaeognatha |
| | Subclass Dicondylia |
| | Order Zygentoma |
| | Subclass Pterygota |
| | Infraclass Neoptera |
| | Superorder Holometabola |
| | Order Coleoptera |
| | Order Diptera |
| | Order Hymenoptera |
| | Order Lepidoptera |
| | Order Mecoptera |
| | Order Siphonaptera |
| | Order Strepsiptera |
| | Order Trichoptera |
| | Superorder Neuropterida |
| | Order Megaloptera |
| | Order Neuroptera |
| | Order Raphidioptera |
| | Superorder Paraneoptera |
| | Order Hemiptera |
| | Order Psocodea |
| | Order Thysanoptera |
| | Superorder Polyneoptera |
| | Order Blattodea |
| | Order Dermaptera |
| | Order Embioptera |
| | Order Grylloblattodea |
| | Order Mantodea |

(Continued)

Table 2. (Continued)

| | |
|---------------------|----------------------------|
| | Order Mantophasmatodea |
| | Order Orthoptera |
| | Order Phasmida |
| | Order Plecoptera |
| | Order Zoraptera |
| | Infraclass Palaeoptera |
| | Order Ephemeroptera |
| | Order Odonata |
| Class | |
| Protura | |
| | Order Acerentomata |
| | Order Eosentomata |
| | Order Sinentomata |
| Subphylum Myriapoda | |
| Class Chilopoda | |
| | Order Craterostigmomorpha |
| | Order Geophilomorpha |
| | Order Lithobiomorpha |
| | Order Scolopendromorpha |
| | Order Scutigermomorpha |
| Class Diplopoda | |
| | Subclass Chilognatha |
| | Infraclass Helminthomorpha |
| | Superorder N.N. |
| | Order Platydesmida |
| | Order Polyzoniida |
| | Order Siphonocryptida |
| | Order Siphonophorida |
| | Superorder Juliformia |
| | Order Julida |
| | Order Spirobolida |
| | Order Spirostreptida |
| | Superorder Nematophora |
| | Order Callipodida |
| | Order Chordeumatida |
| | Order Stemmiulida |
| | Order Siphoniulida |
| | Superorder Merochaeta |
| | Order Polydesmida |
| | Infraclass Pentazonia |
| | Order Glomerida |
| | Order Glomeridesmida |
| | Order Sphaerotheriida |
| Subclass | |
| Penicillata | |
| | Order Polyxenida |
| Class Pauropoda | |
| | Order Hexamerocerata |

(Continued)

Table 2. (Continued)

| | |
|--------------------|--|
| | Order Tetramerocerata |
| | Class Symphyla (e.g., Scolopendrellidae) |
| Phylum Kinorhyncha | |
| | Order Cyclorhagida |
| | Order Homalorhagida |
| Phylum Loricifera | |
| | Order Nanaloricida |
| Phylum Nematoda | |
| | Class Chromadorea |
| | Subclass Chromadoria |
| | Order Chromadorida |
| | Order Desmodorida |
| | Order Desmoscolecida |
| | Order Selachinematida |
| | Subclass Plectia |
| | Superorder Monhysterica |
| | Order Monhysterida |
| | Superorder Plectica |
| | Order Benthimermithida |
| | Order Leptolaimida |
| | Order Plectida |
| | Superorder Rhabditica |
| | Order Diplogasterida |
| | Order Drilonematida |
| | Order Panagrolaimida |
| | Order Rhabditida |
| | Order Spirurida |
| | Superorder Teratocephalica |
| | Order Teratocephalida |
| | Class Dorylaimea |
| | Subclass Bathyodontia |
| | Order Bathyodontida |
| | Order Mermithida |
| | Order Mononchida |
| | Subclass Dorylaimia |
| | Order Dorylaimida |
| | Subclass Trichocephalia |
| | Order Dioctophymatida |
| | Order Marimermithida |
| | Order Muspiceida |
| | Order Trichocephalida |
| | Class Enoplea |
| | Subclass Enoplia |
| | Order Alaimida |
| | Order Enoplida |

(Continued)

Table 2. (Continued)

| | | |
|---|--------------------------------|----------------------------|
| | | Order Ironida |
| | | Order Rhaptothyreida |
| | | Order Trifusiida |
| | | Order Tripyloidida |
| | | Subclass Oncholaimia |
| | | Order Oncholaimida |
| | Subclass | |
| | Triplonchia | |
| | | Order Triplonchida |
| | | Order Tripylida |
| Phylum Nematomorpha | | |
| | | Order Gordioidea |
| | | Order Nectonematoidea |
| Phylum Onychophora | | |
| | Class Udeonychophora | |
| | | Order Euonychophora |
| Phylum Priapula [= Priapulida] | | |
| | Class N.N. (e.g., Priapulidae) | |
| Phylum Tardigrada | | |
| | Class Eutardigrada | |
| | | Order Apochela |
| | | Order Parachela |
| | Class Heterotardigrada | |
| | | Order Arthrotardigrada |
| | | Order Echiniscoidea |
| Superphylum Spiralia [= Lophotrochozoa] | | |
| Phylum Acanthocephala | | |
| | Class Archiacanthocephala | |
| | | Order Apororhynchida |
| | | Order Gigantorhynchida |
| | | Order Moniliformida |
| | | Order Oligacanthorhynchida |
| | Class Eoacanthocephala | |
| | | Order Gyracanthocephala |
| | | Order Neoechinorhynchida |
| | Class Palaeacanthocephala | |
| | | Order Echinorhynchida |
| | | Order Heteramorphida |
| | | Order Polymorphida |
| | Class Polyacanthocephala | |
| | | Order Polyacanthorhynchida |
| Phylum Annelida | | |
| | Class N. N. | |
| | | Order Myzostomida |

(Continued)

Table 2. (Continued)

| | | |
|--------------------|----------------------|---|
| | Class Clitellata | |
| | Subclass N.N. | |
| | | Order Branchiobdellida |
| | Subclass Hirudinea | |
| | | Order Acanthobdellida |
| | | Order Arhynchobdellida |
| | | Order Rhynchobdellida |
| | | Subclass Oligochaeta |
| | | Superorder N.N. |
| | | Order N.N. (<i>Jennaria</i>) |
| | | Order Enchytraeida |
| | | Order Haplotaxida |
| | | Order Lumbriculida |
| | | Order Tubificida |
| | | Superorder Metagynophora |
| | | Order Moniligastrida |
| | | Order Opisthophora |
| | Class Polychaeta | |
| | Subclass N.N. | |
| | | Order N.N. (e.g., Nerillidae) |
| | Subclass Echiura | |
| | | Order Echiuroinea |
| | | Order Heteromyota |
| | | Order Xenopneusta |
| | Subclass Errantia | |
| | | Order Amphinomida |
| | | Order Eunicida |
| | | Order Phyllodocida |
| | Subclass Sedentaria | |
| | | Infraclass Canalipalpata |
| | | Order Sabellida |
| | | Order Spionida |
| | | Order Terebellida |
| | | Infraclass Scolecida (e.g., Arenicolidae) |
| Phylum Brachiopoda | | |
| | Class Craniata | |
| | | Order Craniida |
| | Class Lingulata | |
| | | Order Lingulida |
| | Class Rhynchonellata | |
| | | Order Rhynchonellida |
| | | Order Terebratulida |
| | | Order Thecideida |
| Phylum Bryozoa | | |

(Continued)

Table 2. (Continued)

| | | |
|------------------------|-----------------------|--------------------------|
| | Class Gymnolaemata | |
| | | Order Cheilostomata |
| | | Order Ctenostomata |
| | Class Phylactolaemata | |
| | | Order Plumatellida |
| | Class Stenolaemata | |
| | | Order Cyclostomata |
| Phylum Cycliophora | | |
| | Class Eucycliophora | |
| | | Order Symbiida |
| Phylum Entoprocta | | |
| | | Order Coloniales |
| | | Order Solitaria |
| Phylum Gastrotricha | | |
| | | Order Chaetonotida |
| | | Order Macrodasyida |
| Phylum Gnathostomulida | | |
| | | Order Bursovaginoidea |
| | | Order Filospermoidea |
| Phylum Micrognathozoa | | |
| | Class Micrognathozoa | |
| | | Order Limnognathida |
| Phylum Mollusca | | |
| | Class Bivalvia | |
| | | Subclass Autobranchia |
| | | Superorder Heteroconchia |
| | | Order Carditida |
| | | Order Lucinida |
| | | Order Myida |
| | | Order Pholadomyida |
| | | Order Trigoniida |
| | | Order Unionida |
| | | Order Veneroidea |
| | | Superorder Pteriomorpha |
| | | Order Arcida |
| | | Order Limida |
| | | Order Mytilida |
| | | Order Ostreida |
| | | Order Pectinida |
| | | Order Pteriida |
| | | Subclass Protobranchia |
| | | Order Nuculanida |
| | | Order Nuculida |
| | | Order Solemyoidea |

(Continued)

Table 2. (Continued)

| | |
|----------------------|---|
| Class | |
| Caudofoveata | Order Chaetodermatida |
| Class | |
| Cephalopoda | |
| Subclass | |
| Coleoidea | Superorder Decabrachia |
| | Order Sepiida |
| | Order Sepiolida |
| | Order Spirulida |
| | Order Teuthida |
| | Superorder Octobrachia |
| | Order Octopoda |
| | Order Vampyromorphida |
| | Subclass Nautiloidea |
| | Order Nautilida |
| Class | |
| Gastropoda | |
| | Subclass Caenogastropoda |
| | Order Littorinimorpha |
| | Order Neogastropoda |
| | Subclass Cocculiniformia (e.g., Cocculinidae) |
| | Subclass Heterobranchia |
| | Order Acochlidioidea |
| | Order Anaspidea |
| | Order Cephalaspidea |
| | Order Gymnosomata |
| | Order Hygrophila |
| | Order Nudibranchia |
| | Order Pleurobranchomorpha |
| | Order Runcinacea |
| | Order Sacoglossa |
| | Order Stylommatophora |
| | Order Systellommatophora |
| | Order Thecosomata |
| | Order Umbraculida |
| | Subclass Neomphalina |
| | Order N.N. (e.g., Neomphalidae) |
| | Subclass Neritimorpha |
| | Order Cycloneritimorpha |
| | Subclass Patellogastropoda |
| | Order N.N. (e.g., Patellidae) |
| | Subclass Vetigastropoda |
| | Order N.N. (e.g., Ataphridae) |
| Class Monoplacophora | Order Tryblidiida |
| Class Polyplacophora | Order Chitonida |

(Continued)

Table 2. (Continued)

| | | |
|-------------------------|-----------------------------|---|
| | | Order Lepidopleurida |
| | Class Scaphopoda | |
| | | Order Dentaliida |
| | | Order Gadilida |
| | Class Solenogastres | |
| | | Superorder Aplotegmentaria |
| | | Order Cavibelonia |
| | | Order Sterrofustia |
| | | Superorder Pachytegumentaria |
| | | Order Neomeniamorpha |
| | | Order Pholidoskepia |
| Phylum Nemertea | | |
| | Class Anopla | |
| | | Order N.N. (e.g., Gorgonorhynchidae) |
| | Class Enopla | |
| | | Order Monostilifera |
| | | Order Polystilifera |
| | | Class Paleonemertea (e.g., Carinomidae) |
| Phylum Phoronida | | |
| | Class N.N. (e.g., Phoronis) | |
| Phylum Platyhelminthes | | |
| Subphylum Catenulidea | | |
| | | Order Catenulida |
| Subphylum Rhabditophora | | |
| | Class Macrostomorpha | |
| | | Order Haplopharyngida |
| | | Order Macrostomida |
| | Class Neophora | |
| | | Subclass Eulecithophora |
| | | Infraclass Adiaphanida |
| | | Order Fecampiida |
| | | Order Prolecithophora |
| | | Order Tricladida |
| | | Infraclass Rhabdocoela |
| | | Order Dalytyphloplanida |
| | | Order Endoaxonemata |
| | | Order Kalyptorhynchia |
| | | Subclass Neodermata |
| | | Infraclass Cestoda |
| | | Order Amphilinidea |
| | | Order Bothriocephalidea |
| | | Order Caryophyllidea |

(Continued)

Table 2. (Continued)

| | |
|------------------|--|
| | Order Cyclophyllidea |
| | Order Diphyllidea |
| | Order Diphyllbothriidea |
| | Order Gyrocotyliidea |
| | Order Lecanicephalidea |
| | Order Litobothriidea |
| | Order Proteocephalidea |
| | Order Pseudophyllidea |
| | Order Rhinebothriidea |
| | Order Spathebothriidea |
| | Order Tetrabothriidea |
| | Order Tetraphyllidea |
| | Order Trypanorhyncha |
| | Infraclass Monogenea |
| | Order Capsalidea |
| | Order Chimaericolidea |
| | Order Dactylogyriidea |
| | Order Dicybothriidea |
| | Order Gyrodactylidea |
| | Order Mazocraeidea |
| | Order Monocotyliidea |
| | Order Montchadskyellidea |
| | Order Polystomatidea |
| | Infraclass Trematoda |
| | Order Aspidogastriida |
| | Order Diplostomida |
| | Order Plagiorchiida |
| | Order Stichocotylida |
| | Class Polycladidea |
| | Order Lecithoepitheliata |
| | Order Polycladida |
| | Subclass Proseriata |
| | Order Proseriata |
| Phylum Rotifera | |
| | Class Eurotatoria |
| | Subclass Bdelloidea (e.g., Adinetidae) |
| | Subclass Monogonta |
| | Order Collothecaceae |
| | Order Flosculariaceae |
| | Order Ploima |
| | Class Pararotatoria |
| | Order Seisonacea |
| Phylum Sipuncula | |
| | Class Phascolosomatidea |

(Continued)

Table 2. (Continued)

| | |
|-----------------------------------|----------------------------|
| | Order Aspidosiphoniformes |
| | Order Phascolosomatiformes |
| Class | |
| Sipunculidea | |
| | Order Golfingiiformes |
| | Order Sipunculiformes |
| INFRAKINGDOM | |
| DEUTEROSTOMIA | |
| Phylum Chordata | |
| Subphylum Cephalochordata | |
| | Order Amphioxiformes |
| Subphylum Urochordata | |
| Class Appendicularia | |
| | Order Copelata |
| Class Ascidiacea | |
| | Order Enterogona |
| | Order Pleurogona |
| Class Thaliacea | |
| | Order Doliolida |
| | Order Pyrosomida |
| | Order Salpida |
| Subphylum Vertebrata [= Craniata] | |
| Infraphylum Agnatha | |
| Class | |
| Cephalaspidomorphi | |
| | Order Petromyzontiformes |
| Class | |
| Myxini | |
| | Order Myxiniiformes |
| Infraphylum Gnathostomata | |
| Superclass Actinopterygii | |
| Class | |
| Chondrostei | |
| | Order Acipenseriformes |
| Class Cladistei | |
| | Order Polypteriformes |
| Class Holosteii | |
| | Order Amiiformes |
| | Order Lepisosteiformes |
| Class Teleostei | |
| | Order Acanthuriformes |
| | Order Albuliformes |
| | Order Alepocephaliformes |
| | Order Anabantiformes |
| | Order Anguilliformes |
| | Order Argentiniformes |
| | Order Ateleopodiformes |
| | Order Atheriniformes |
| | Order Aulopiformes |

(Continued)

Table 2. (Continued)

| |
|---------------------------|
| Order Batrachoidiformes |
| Order Beloniformes |
| Order Beryciformes |
| Order Blenniiformes |
| Order Carangiformes |
| Order Centrarchiformes |
| Order Characiformes |
| Order Cichliformes |
| Order Cirrhitiformes |
| Order Clupeiformes |
| Order Cypriniformes |
| Order Cyprinodontiformes |
| Order Elopiformes |
| Order Ehippiformes |
| Order Esociformes |
| Order Gadiformes |
| Order Galaxiiformes |
| Order Gobiiformes |
| Order Gonorynchiformes |
| Order Gymnotiformes |
| Order Hidontiformes |
| Order Holocentriformes |
| Order Istiophoriformes |
| Order Kurtiformes |
| Order Labriformes |
| Order Lampridiformes |
| Order Lepidogalaxiiformes |
| Order Lobotiformes |
| Order Lophiiformes |
| Order Mugiliformes |
| Order Myctophiformes |
| Order Notacanthiformes |
| Order Ophidiiformes |
| Order Osmeriformes |
| Order Osteoglossiformes |
| Order Pempheriformes |
| Order Perciformes |
| Order Percopsiformes |
| Order Pholidichthyiformes |
| Order Pleuronectiformes |
| Order Polymixiiformes |
| Order Salmoniformes |
| Order Scombriformes |
| Order Siluriformes |
| Order Spariformes |
| Order Stomiatiformes |
| Order Stylephoriformes |
| Order Synbranchiformes |

(Continued)

Table 2. (Continued)

| | |
|--------------------------|-------------------------------------|
| | Order Syngnathiformes |
| | Order Terapontiformes |
| | Order Tetraodontiformes |
| | Order Uranoscopiformes |
| | Order Zeiformes |
| Superclass | |
| Chondrichthyes | |
| Class Elasmobranchii | |
| | Order Carcharhiniformes |
| | Order Heterodontiformes |
| | Order Hexanchiformes |
| | Order Lamniformes |
| | Order Myliobatiformes |
| | Order Orectolobiformes |
| | Order Pristiformes |
| | Order Pristiophoriformes |
| | Order Rajiformes |
| | Order Squaliformes |
| | Order Squatiniformes |
| | Order Torpediniformes |
| Class | |
| Holocephali | |
| | Order Chimaeriformes |
| Superclass Sarcopterygii | |
| Class | |
| Coelacanthi | |
| | Order Coelacanthiformes |
| Class | |
| Dipnoi | |
| | Order Ceratodontiformes |
| | Order Lepidosirenoformes |
| Superclass Tetrapoda | |
| Class Amphibia | |
| | Order Anura |
| | Order Caudata |
| | Order Gymnophiona |
| Class Mammalia | |
| | Subclass Prototheria |
| | Order Monotremata |
| Subclass Theria | |
| | Infraclass Eutheria [= Placentalia] |
| | Order Afrosoricida |
| | Order Artiodactyla |
| | Order Carnivora |
| | Order Cetacea |
| | Order Chiroptera |
| | Order Cingulata |
| | Order Dermoptera |
| | Order Erinaceomorpha |

(Continued)

Table 2. (Continued)

| | |
|--|---------------------------------------|
| | Order Hyracoidea |
| | Order Lagomorpha |
| | Order Macroscelidea |
| | Order Perissodactyla |
| | Order Pholidota |
| | Order Pilosa |
| | Order Primates |
| | Order Proboscidea |
| | Order Rodentia |
| | Order Scandentia |
| | Order Sirenia |
| | Order Soricomorpha |
| | Order Tubulidentata |
| | Infraclass Metatheria [= Marsupialia] |
| | Order Dasyuromorpha |
| | Order Didelphimorpha |
| | Order Diprotodontia |
| | Order Microbiotheria |
| | Order Notoryctemorphia |
| | Order Paucituberculata |
| | Order Peramelemorphia |
| | Class Reptilia |
| | Subclass Aves |
| | Infraclass Neognathae |
| | Superorder Galloanseri |
| | Order Anseriformes |
| | Order Galliformes |
| | Superorder Neoaves |
| | Order Accipitriformes |
| | Order Apodiformes |
| | Order Bucerotiformes |
| | Order Caprimulgiformes |
| | Order Cariamiformes |
| | Order Charadriiformes |
| | Order Ciconiiformes |
| | Order Coliiformes |
| | Order Columbiformes |
| | Order Coraciiformes |
| | Order Cuculiformes |
| | Order Eurypygiformes |
| | Order Falconiformes |
| | Order Gaviiformes |
| | Order Gruiformes |
| | Order Leptosomiformes |
| | Order Mesitornithiformes |
| | Order Musophagiformes |
| | Order Opisthocomiformes |
| | Order Otidiformes |

(Continued)

Table 2. (Continued)

| | |
|----------------------|---------------------------|
| | Order Passeriformes |
| | Order Pelecaniformes |
| | Order Phaethontiformes |
| | Order Phoenicopteriformes |
| | Order Piciformes |
| | Order Podicipediformes |
| | Order Procellariiformes |
| | Order Psittaciformes |
| | Order Pteroclidiformes |
| | Order Sphenisciformes |
| | Order Strigiformes |
| | Order Suliformes |
| | Order Trogoniformes |
| | Infraclass Paleognathae |
| | Order Apterygiformes |
| | Order Casuariiformes |
| | Order Rheiformes |
| | Order Struthioniformes |
| | Order Tinamiformes |
| | Subclass Crocodylomorpha |
| | Order Crocodylia |
| | Subclass Rhynchocephalia |
| | Order Sphenodontida |
| | Subclass Squamata |
| | Order Anguimorpha |
| | Order Gekkota |
| | Order Inguania |
| | Order Lacertoidea |
| | Order Scincoidea |
| | Order Serpentes |
| | Subclass Testudinata |
| | Order Testudines |
| Phylum Echinodermata | |
| Subphylum Asterozoa | |
| Class Asteroidea | |
| | Order Brisingida |
| | Order Forcipulatida |
| | Order Notomyotida |
| | Order Paxillosida |
| | Order Peripoda |
| | Order Spinulosida |
| | Order Valvatida |
| | Order Velatida |
| Class Ophiuroidea | |
| | Order Euryalida |
| | Order Ophiurida |

(Continued)

Table 2. (Continued)

| | |
|------------------------|--|
| Subphylum Crinozoa | |
| | Class Crinoidea |
| | Order Comatulida |
| | Order Cyrtocrinida |
| | Order Hyocrinida |
| | Order Isocrinida |
| Subphylum Echinozoa | |
| | Class Echinoidea |
| | Subclass Cidaroida |
| | Order Cidaroida |
| | Subclass Euechinoidea |
| | Infraclass N.N. |
| | Order Echinothurioida |
| | Infraclass Acroechinoidea |
| | Order Aspidodiadematoidea |
| | Order Diadematoidea |
| | Order Micropygoidea |
| | Order Pedinoidea |
| | Infraclass Carinacea |
| | Order Arbacioidea |
| | Order Camarodonta |
| | Order Salenioidea |
| | Order Stomopneustoida |
| | Infraclass Irregularia |
| | Order Cassiduloida |
| | Order Clypeasteroida |
| | Order Echinolampadoidea |
| | Order Holasteroida |
| | Order Spatangoida |
| | Class Holothuroidea |
| | Order N.N. (<i>Thyone</i>) |
| | Order Apodida |
| | Order Aspidochirotida |
| | Order Dendrochirotida |
| | Order Elasipodida |
| | Order Molpadida |
| Phylum Hemichordata | |
| | Class Enteropneusta (e.g., Harrimaniidae) |
| | Class Pterobranchia |
| | Subclass Cephalodiscida (<i>Cephalodiscus</i>) |
| | Subclass Graptolithina |
| | Order Rhabdopleurida |
| Phylum Xenacoelomorpha | |
| Subphylum Acoelomorpha | |
| | Class Acoela (e.g., Diopisthoporidae) |

(Continued)

Table 2. (Continued)

| | |
|--------------------------|--|
| | Class Nemertodermatida (e.g., Nemertodermatidae) |
| Subphylum Xenoturbellida | |
| | Class N.N. (Xenoturbellidae) |

Names below rank of infrakingdom are arranged alphabetically within each parent rank, except for taxa that are not named (N.N.). Brackets indicate synonyms. Quoted names are not validly published but in common use.

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Supporting Information

S1 Table. Proposed hierarchical classification from superkingdom to order.
(XLSX)

Reference

1. Ruggiero MA, Gordon DP, Orrell TM, Bailly N, Bourgoin T, Brusca RC, et al. (2015) A Higher Level Classification of All Living Organisms. PLoS ONE 10(4): e0119248. doi: [10.1371/journal.pone.0119248](https://doi.org/10.1371/journal.pone.0119248) PMID: [25923521](https://pubmed.ncbi.nlm.nih.gov/25923521/)