



Changes to taxonomy and the International Code of Virus Classification and Nomenclature ratified by the International Committee on Taxonomy of Viruses (2018)

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Abstract

This article lists the changes to virus taxonomy approved and ratified by the International Committee on Taxonomy of Viruses in February 2018. A total of 451 species, 69 genera, 11 subfamilies, 9 families and one new order were added to the taxonomy. The current totals at each taxonomic level now stand at 9 orders, 131 families, 46 subfamilies, 803 genera and 4853 species. A change was made to the International Code of Virus Classification and Nomenclature to allow the use of the names of people in taxon names under appropriate circumstances. An updated Master Species List incorporating the approved changes was released in March 2018 (<https://talk.ictvonline.org/taxonomy/>).

Introduction

Changes to virus taxonomy (the Universal Scheme of Virus Classification of the International Committee on Taxonomy of Viruses [ICTV]) take place annually and are the result of a multi-stage process. In accordance with ICTV Statutes (<http://www.ictv.global/statutes.asp>) and ICTV Executive Committee (EC) procedures, proposals undergo a review process involving input from the ICTV Study Groups (SGs) and Subcommittees (SCs), other interested virologists, and the EC. Proposals may thus be considered on more than one occasion before they are submitted for ratification by the ICTV membership. Proposals are presented for ratification by publication on the ICTV website (<http://www.ictv.global>) followed by an electronic vote. The latest set of proposals approved by the EC was made available on the ICTV website in January 2017 (see http://ictv.global/proposals_2017 for all proposals combined into a single zip file, and use

the links provided in the References to access individual proposals). A list of proposals was then emailed on January 24, 2018 to the 160 members of ICTV, namely the EC Members, Life Members, ICTV Subcommittee Members (including the SG chairs) and ICTV National Representatives. Members were then requested to vote on whether to ratify the taxonomic proposals (voting closed on February 25, 2018).

Since the processing of this year's proposals overlapped the end of the 2014–2017 EC tenure and the start of the 2017–2020 EC tenure, members of the both ECs constitute the authorship of this article.

Changes to virus taxonomy: taxa and nomenclature

Large number of changes were ratified by ICTV members (Table 1). Increase in the number of all taxa compared to the 2017 taxonomy was within the range of 9–11%, except for the number of subfamilies, which grew by 31%.

A summary of the individual proposals is provided in Table 2. Names of newly created taxa are in ***bold italic*** type.

Names of existing taxa that have been moved or renamed are

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Table 1 Summary of taxonomic changes approved in February 2018

Change	Orders	Families	Subfamilies	Genera	Species
New	1	9	11	69	451
Moved	0	4	2	75	341
Moved/renamed	0	0	0	1	18
Abolished	0	0	0	1 ^a	2
Totals ^b	9	131	46	803	4853

^aExisting genus (*Tectivirusus*) split into two new genera, resulting in a net gain of one genus

^bTotal numbers of taxa now recognized and shown in the ICTV Master Species List

shown in *plain italic* type. Each proposal is cited and listed in the References, to acknowledge the authors' efforts and to provide a link to each specific proposal on the ICTV website. These documents remain available for any who wish to see the full details of the proposals.

Changes to the International Code of Virus Classification and Nomenclature

ICTV has adopted one change to the Code, by ratifying Proposal 2017.003G.A.v2.ICVCN_Rule_3.11_Change. "Change ICVCN Rule 3.11 to permit, with limitations, the names of people to be recognised in names of taxa". As with many other proposals dealing with general approaches

to virus taxonomy and nomenclature, this proposed change was a subject of a lively debate in the community, and was adopted by the overwhelming majority of the ICTV. This change also allowed the creation of two new taxa in the order *Candovirales*, i.e., the family *Ackermannviridae*, to honor Hans-Wolfgang Ackermann (1936–2017), a former Life Member of the ICTV and Professor Emeritus at Université Laval, for his foundational contributions to the biology and taxonomy of prokaryotic viruses, and the subfamily *McCleskeyvirinae*, to honor Charles Shelton McCleskey (1904–1984), a former Professor Emeritus at Louisiana State University, for his pioneering work on viruses of *Leucostoc* bacteria.

Conclusion

All of the taxonomic proposals listed below were approved by the 87–95 affirming votes from the 96 members who voted (a return rate of about 60%). The changes are now part of the official ICTV taxonomy. Several proposals that had been discussed at the 2017 EC meeting were not included in the ballot because they needed further development. Several other proposals were found, after completion of the ratification rate, to contain typographical errors in species' names. According to the current ICTV procedures, these errors will need to be corrected by additional proposals to be submitted to the 2018 EC meeting. An up-to-date list

Table 2 Taxonomic changes approved in February 2018

Order	Family	Subfamily (blank = unassigned)	Genus	Species	Taxonomic change	References
Caudovirales	<i>Ackermannviridae</i>				New family	[1]
Caudovirales	<i>Ackermannviridae</i>	<i>Aglimvirinae</i>			New subfamily	[1]
Caudovirales	<i>Ackermannviridae</i>	<i>Aglimvirinae</i>	<i>Ag3virus</i>		New genus	[1]
Caudovirales	<i>Ackermannviridae</i>	<i>Aglimvirinae</i>	<i>Ag3virus</i>	<i>Shigella virus AG3</i>	Move species to be type species (previous position: <i>Caudovirales/Myoviridae/Vi1virus</i>)	[1]
Caudovirales	<i>Ackermannviridae</i>	<i>Aglimvirinae</i>	<i>Ag3virus</i>	<i>Salmonella virus SKML39</i>	New species	[1]
Caudovirales	<i>Ackermannviridae</i>	<i>Aglimvirinae</i>	<i>Limestonevirus</i>		New genus	[1]
Caudovirales	<i>Ackermannviridae</i>	<i>Aglimvirinae</i>	<i>Limestonevirus</i>	<i>Dickeya virus Limestone</i>	Move species to be type species (previous position: <i>Caudovirales/Myoviridae/Vi1virus</i>)	[1]
Caudovirales	<i>Ackermannviridae</i>	<i>Aglimvirinae</i>	<i>Limestonevirus</i>	<i>Dickeya virus RC2014</i>	New species	[1]
Caudovirales	<i>Ackermannviridae</i>	<i>Cvivirinae</i>			New subfamily	[1]
Caudovirales	<i>Ackermannviridae</i>	<i>Cvivirinae</i>	<i>Cba120virus</i>		New genus	[1]
Caudovirales	<i>Ackermannviridae</i>	<i>Cvivirinae</i>	<i>Cba120virus</i>	<i>Escherichia virus CBA120</i>	Move species to be type species (previous position: <i>Caudovirales/Myoviridae/Vi1virus</i>)	[1]
Caudovirales	<i>Ackermannviridae</i>	<i>Cvivirinae</i>	<i>Cba120virus</i>	<i>Salmonella virus SFP10</i>	Move species (previous position: <i>Caudovirales/Myoviridae/Vi1virus</i>)	[1]
Caudovirales	<i>Ackermannviridae</i>	<i>Cvivirinae</i>	<i>Cba120virus</i>	<i>Salmonella virus GG32</i>	New species	[1]
Caudovirales	<i>Ackermannviridae</i>	<i>Cvivirinae</i>	<i>Cba120virus</i>	<i>Escherichia virus PhaxI</i>	Move species (previous position: <i>Caudovirales/Myoviridae/Vi1virus</i>)	[1]
Caudovirales	<i>Ackermannviridae</i>	<i>Cvivirinae</i>	<i>Cba120virus</i>	<i>Salmonella virus Det7</i>	Move species (previous position: <i>Caudovirales/Myoviridae/Vi1virus</i>)	[1]
Caudovirales	<i>Ackermannviridae</i>	<i>Cvivirinae</i>	<i>Cba120virus</i>	<i>Salmonella virus SH19</i>	Move species (previous position: <i>Caudovirales/Myoviridae/Vi1virus</i>)	[1]
Caudovirales	<i>Ackermannviridae</i>	<i>Cvivirinae</i>	<i>Cba120virus</i>	<i>Salmonella virus 38</i>	New species	[1]
Caudovirales	<i>Ackermannviridae</i>	<i>Cvivirinae</i>	<i>Cba120virus</i>	<i>Salmonella virus PM10</i>	New species	[1]
Caudovirales	<i>Ackermannviridae</i>	<i>Cvivirinae</i>	<i>Cba120virus</i>	<i>Salmonella virus SJ3</i>	Move species	[1]
Caudovirales	<i>Ackermannviridae</i>	<i>Cvivirinae</i>	<i>Vi1virus</i>		Move genus and constituent species: <i>Salmonella virus Vi1</i> , <i>Escherichia virus ECML4</i> , <i>Salmonella virus SJ2</i> , <i>Salmonella virus Marshall</i> , <i>Salmonella virus Maynard</i> , <i>Salmonella virus STML131</i> (previous position: <i>Caudovirales/Myoviridae/Vi1virus</i>)	[1]
Caudovirales	<i>Ackermannviridae</i>		Unassigned	<i>Erwinia virus Ea2809</i>	New species unassigned in family	[1]
Caudovirales	<i>Ackermannviridae</i>		Unassigned	<i>Serratia virus MAMI</i>	New species unassigned in family	[1]
Caudovirales	<i>Ackermannviridae</i>		Unassigned	<i>Serratia virus IME250</i>	New species unassigned in family	[1]
Caudovirales	<i>Ackermannviridae</i>		Unassigned	<i>Klebsiella virus 0507KN21</i>	New species unassigned in family	[1]
Unassigned	<i>Portogloboviridae</i>				New family	[2]
Unassigned	<i>Portogloboviridae</i>		<i>Alphaportoglobovirus</i>		New genus	[2]
Unassigned	<i>Portogloboviridae</i>		<i>Alphaportoglobovirus</i>	<i>Sulfolobus alphaportoglobovirus 1</i>	New (type) species	[2]

Table 2 (continued)

Order	Family	Subfamily (blank = unassigned)	Genus	Species	Taxonomic change	References
Caudovirales	Siphoviridae		Anatolevirus		New genus	[3]
Caudovirales	Siphoviridae		Anatolevirus	<i>Propionibacterium virus Anatole</i>	New (type) species	[3]
Caudovirales	Siphoviridae		Anatolevirus	<i>Propionibacterium virus B3</i>	New species	[3]
Caudovirales	Siphoviridae	Chebruvirinae			New subfamily	[4]
Caudovirales	Siphoviridae	Chebruvirinae	Che9cvirus		Move genus (with constituent type species: <i>Mycobacterium virus Che9c</i>)	[4]
Caudovirales	Siphoviridae	Chebruvirinae	Che9cvirus	<i>Mycobacterium virus Sbash</i>	New species	[4]
Caudovirales	Siphoviridae	Chebruvirinae	Brujitarvirus		New genus	[4]
Caudovirales	Siphoviridae	Chebruvirinae	Brujitarvirus	<i>Mycobacterium virus Brujita</i>	Move species to be type species (previous position: Caudovirales/Siphoviridae/ Che9cvirus)	[4]
Caudovirales	Siphoviridae	Chebruvirinae	Brujitarvirus	<i>Mycobacterium virus Babsiella</i>	Move species (previous position: Caudovi- rales/Siphoviridae/Che9cvirus)	[4]
Caudovirales	Siphoviridae		Attivirus		New genus	[5]
Caudovirales	Siphoviridae		Attivirus	<i>Gordonia virus Attis</i>	New (type) species	[5]
Caudovirales	Siphoviridae		Doucettevirus		New genus	[6]
Caudovirales	Siphoviridae		Doucettevirus	<i>Propionibacterium virus Doucette</i>	New (type) species	[6]
Caudovirales	Siphoviridae		Doucettevirus	<i>Propionibacterium virus B22</i>	New species	[6]
Caudovirales	Siphoviridae		Doucettevirus	<i>Propionibacterium virus E6</i>	New species	[6]
Caudovirales	Siphoviridae		Doucettevirus	<i>Propionibacterium virus G4</i>	New species	[6]
Caudovirales	Siphoviridae	Dclasvirinae			New subfamily	[7]
Caudovirales	Siphoviridae	Dclasvirinae	Plotvirus		New genus	[7]
Caudovirales	Siphoviridae	Dclasvirinae	Plotvirus	<i>Mycobacterium virus Plot</i>	New (type) species	[7]
Caudovirales	Siphoviridae	Dclasvirinae	Hawkeyevirus		New genus	[7]
Caudovirales	Siphoviridae	Dclasvirinae	Hawkeyevirus	<i>Mycobacterium virus Hawkeye</i>	New (type) species	[7]
Caudovirales	Siphoviridae		Hk97virus		New genus	[8]
Caudovirales	Siphoviridae		Hk97virus	<i>Escherichia virus HK97</i>	Move species to be type species (previous position: Caudovirales/Siphoviridae/ Lambdavirus)	[8]
Caudovirales	Siphoviridae		Hk97virus	<i>Escherichia virus HK022</i>	Move species (previous position: Caudovi- rales/Siphoviridae/Lambdavirus)	[8]
Caudovirales	Siphoviridae		Hk97virus	<i>Escherichia virus mEpX2</i>	New species	[8]
Caudovirales	Siphoviridae		Hk97virus	<i>Escherichia virus HK542</i>	New species	[8]
Caudovirales	Siphoviridae		Hk97virus	<i>Escherichia virus HK633</i>	New species	[8]
Caudovirales	Siphoviridae		Hk97virus	<i>Escherichia virus HK106</i>	New species	[8]
Caudovirales	Siphoviridae		Hk97virus	<i>Escherichia virus mEp234</i>	New species	[8]
Caudovirales	Siphoviridae		Hk97virus	<i>Escherichia virus HK446</i>	New species	[8]
Caudovirales	Siphoviridae		Hk97virus	<i>Escherichia virus HK544</i>	New species	[8]
Caudovirales	Siphoviridae		Hk97virus	<i>Escherichia virus mEpX1</i>	New species	[8]
Caudovirales	Siphoviridae		Hk97virus	<i>Escherichia virus HK75</i>	New species	[8]
Caudovirales	Siphoviridae	Mccleskeyvirinae			New subfamily	[9]

Table 2 (continued)

Order	Family	Subfamily (blank = unassigned)	Genus	Species	Taxonomic change	References
Caudovirales	Siphoviridae	<i>Mccleskeyvirinae</i>	<i>Una4virus</i>		New genus	[9]
Caudovirales	Siphoviridae	<i>Mccleskeyvirinae</i>	<i>Una4virus</i>	<i>Leuconostoc virus IA4</i>	New (type) species	[9]
Caudovirales	Siphoviridae	<i>Mccleskeyvirinae</i>	<i>Una4virus</i>	<i>Leuconostoc virus Ln9</i>	New species	[9]
Caudovirales	Siphoviridae	<i>Mccleskeyvirinae</i>	<i>Una4virus</i>	<i>Leuconostoc virus Ln8</i>	New species	[9]
Caudovirales	Siphoviridae	<i>Mccleskeyvirinae</i>	<i>Una4virus</i>	<i>Leuconostoc virus LN25</i>	New species	[9]
Caudovirales	Siphoviridae	<i>Mccleskeyvirinae</i>	<i>Una4virus</i>	<i>Leuconostoc virus LN34</i>	New species	[9]
Caudovirales	Siphoviridae	<i>Mccleskeyvirinae</i>	<i>Una4virus</i>	<i>Leuconostoc virus LNTR3</i>	New species	[9]
Caudovirales	Siphoviridae	<i>Mccleskeyvirinae</i>	<i>LmdIivirus</i>		New genus	[9]
Caudovirales	Siphoviridae	<i>Mccleskeyvirinae</i>	<i>LmdIivirus</i>	<i>Leuconostoc virus P793</i>	New species	[9]
Caudovirales	Siphoviridae	<i>Mccleskeyvirinae</i>	<i>LmdIivirus</i>	<i>Leuconostoc virus LN12</i>	New species	[9]
Caudovirales	Siphoviridae	<i>Mccleskeyvirinae</i>	<i>LmdIivirus</i>	<i>Leuconostoc virus LN03</i>	New species	[9]
Caudovirales	Siphoviridae	<i>Mccleskeyvirinae</i>	<i>LmdIivirus</i>	<i>Leuconostoc virus LN04</i>	New species	[9]
Caudovirales	Siphoviridae	<i>Mccleskeyvirinae</i>	<i>LmdIivirus</i>	<i>Leuconostoc virus LN6B</i>	New species	[9]
Caudovirales	Siphoviridae	<i>Mccleskeyvirinae</i>	<i>LmdIivirus</i>	<i>Leuconostoc virus LmdI</i>	New (type) species	[9]
Caudovirales	Siphoviridae	<i>Nclasvirinae</i>			New subfamily	[10]
Caudovirales	Siphoviridae	<i>Nclasvirinae</i>	<i>Redivirus</i>		New genus	[10]
Caudovirales	Siphoviridae	<i>Nclasvirinae</i>	<i>Redivirus</i>	<i>Mycobacterium virus Redi</i>	Move species to be type species (previous position: Caudovirales/Siphoviridae/ <i>Charlievirus</i>)	[10]
Caudovirales	Siphoviridae	<i>Nclasvirinae</i>	<i>Redivirus</i>	<i>Mycobacterium virus Panchino</i>	New species	[10]
Caudovirales	Siphoviridae	<i>Nclasvirinae</i>	<i>Redivirus</i>	<i>Mycobacterium virus Skinnyp</i>	New species	[10]
Caudovirales	Siphoviridae	<i>Nclasvirinae</i>	<i>Redivirus</i>	<i>Mycobacterium virus Phrann</i>	New species	[10]
Caudovirales	Siphoviridae	<i>Nclasvirinae</i>	<i>Charlievirus</i>		Move genus (with constituent species: <i>Mycobacterium virus Charlie</i>)	[10]
Caudovirales	Siphoviridae	<i>Nclasvirinae</i>	<i>Charlievirus</i>	<i>Mycobacterium virus Pipsqueaks</i>	New species	[10]
Caudovirales	Siphoviridae	<i>Nclasvirinae</i>	<i>Charlievirus</i>	<i>Mycobacterium virus Xeno</i>	New species	[10]
Caudovirales	Siphoviridae	<i>Nclasvirinae</i>	<i>Buttersvirus</i>		New genus	[10]
Caudovirales	Siphoviridae	<i>Nclasvirinae</i>	<i>Buttersvirus</i>	<i>Mycobacterium virus Butters</i>	New (type) species	[10]
Caudovirales	Siphoviridae	<i>Nclasvirinae</i>	<i>Buttersvirus</i>	<i>Mycobacterium virus Michelle</i>	New species	[10]
Caudovirales	Siphoviridae	<i>Nymbaxtervirinae</i>			New subfamily	[11]
Caudovirales	Siphoviridae	<i>Nymbaxtervirinae</i>	<i>Nymphadoravirus</i>		New genus	[11]
Caudovirales	Siphoviridae	<i>Nymbaxtervirinae</i>	<i>Nymphadoravirus</i>	<i>Gorrdonia virus Nymphadora</i>	New (type) species	[11]
Caudovirales	Siphoviridae	<i>Nymbaxtervirinae</i>	<i>Nymphadoravirus</i>	<i>Gordonia virus Kita</i>	New species	[11]
Caudovirales	Siphoviridae	<i>Nymbaxtervirinae</i>	<i>Nymphadoravirus</i>	<i>Gordonia virus Zirinka</i>	New species	[11]
Caudovirales	Siphoviridae	<i>Nymbaxtervirinae</i>	<i>Baxtervirus</i>		New genus	[11]
Caudovirales	Siphoviridae	<i>Nymbaxtervirinae</i>	<i>Baxtervirus</i>	<i>Gordonia virus BaxterFox</i>	New (type) species	[11]
Caudovirales	Siphoviridae	<i>Nymbaxtervirinae</i>	<i>Baxtervirus</i>	<i>Gordonia virus Yeezy</i>	New species	[11]
Caudovirales	Siphoviridae		<i>Wizardvirus</i>		New genus	[12]
Caudovirales	Siphoviridae		<i>Wizardvirus</i>	<i>Gordonia virus Wizard</i>	New (type) species	[12]
Caudovirales	Siphoviridae		<i>Wizardvirus</i>	<i>Gordonia virus Twister6</i>	New species	[12]

Table 2 (continued)

Order	Family	Subfamily (blank = unassigned)	Genus	Species	Taxonomic change	References
Unassigned	<i>Tectiviridae</i>		<i>Alphatectivirus</i>		Rename genus (previous name: <i>Tectivirus</i>)	[13]
Unassigned	<i>Tectiviridae</i>		<i>Alphatectivirus</i>	<i>Pseudomonas virus PRD1</i>	Rename species (previous name: <i>Salmonella virus PRD1</i>)	[13]
Unassigned	<i>Tectiviridae</i>		<i>Alphatectivirus</i>	<i>Pseudomonas virus PR4</i>	New species	[13]
Unassigned	<i>Tectiviridae</i>		<i>Betatectivirus</i>		New genus	[13]
Unassigned	<i>Tectiviridae</i>		<i>Betatectivirus</i>	<i>Bacillus virus Bam35</i>	Move species to be type species (previous position: <i>Tectiviridae/Tectivirus</i>)	[13]
Unassigned	<i>Tectiviridae</i>		<i>Betatectivirus</i>	<i>Bacillus virus GIL16</i>	New species	[13]
Unassigned	<i>Tectiviridae</i>		<i>Betatectivirus</i>	<i>Bacillus virus AP50</i>	Move species	[13]
Unassigned	<i>Tectiviridae</i>		<i>Betatectivirus</i>	<i>Bacillus virus Wip1</i>	New species	[13]
					Abolish species <i>Thermus virus P37-14</i> (previous position: <i>Tectiviridae/Tectivirus</i>)	[13]
					Abolish species <i>Alicyclobacillus virus NS11</i> (previous position: unassigned/ <i>Tectivirus</i>)	[13]
Unassigned	<i>Cystoviridae</i>		<i>Cystovirus</i>	<i>Pseudomonas virus phi8</i>	New species	[14]
Unassigned	<i>Cystoviridae</i>		<i>Cystovirus</i>	<i>Pseudomonas virus phi12</i>	New species	[14]
Unassigned	<i>Cystoviridae</i>		<i>Cystovirus</i>	<i>Pseudomonas virus phi13</i>	New species	[14]
Unassigned	<i>Cystoviridae</i>		<i>Cystovirus</i>	<i>Pseudomonas virus phi2954</i>	New species	[14]
Unassigned	<i>Cystoviridae</i>		<i>Cystovirus</i>	<i>Pseudomonas virus phiNN</i>	New species	[14]
Unassigned	<i>Cystoviridae</i>		<i>Cystovirus</i>	<i>Pseudomonas virus phiYY</i>	New species	[14]
<i>Caudovirales</i>	<i>Podoviridae</i>		<i>Dfl12virus</i>		New genus	[15]
<i>Caudovirales</i>	<i>Podoviridae</i>		<i>Dfl12virus</i>	<i>Dinoroseobacter virus DFL12</i>	New (type) species	[15]
<i>Caudovirales</i>	<i>Podoviridae</i>		<i>Sp58virus</i>		New genus	[16]
<i>Caudovirales</i>	<i>Podoviridae</i>		<i>Sp58virus</i>	<i>Salmonella virus FSL SP-058</i>	New (type) species	[16]
<i>Caudovirales</i>	<i>Podoviridae</i>		<i>Sp58virus</i>	<i>Salmonella virus FSL SP-076</i>	New species	[16]
<i>Caudovirales</i>	<i>Podoviridae</i>		<i>Sp58virus</i>	<i>Escherichia virus Pollock</i>	New species	[16]
<i>Caudovirales</i>	<i>Myoviridae</i>		<i>Svunavirus</i>		New genus	[17]
<i>Caudovirales</i>	<i>Myoviridae</i>		<i>Svunavirus</i>	<i>Geobacillus virus GBSV1</i>	New (type) species	[17]
<i>Caudovirales</i>	<i>Myoviridae</i>		<i>Svunavirus</i>	<i>Bacillus virus I</i>	New species	[17]
<i>Caudovirales</i>	<i>Siphoviridae</i>		<i>Tp84virus</i>		New genus	[18]
<i>Caudovirales</i>	<i>Siphoviridae</i>		<i>Tp84virus</i>	<i>Geobacillus virus Tp84</i>	New (type) species	[18]
<i>Caudovirales</i>	<i>Myoviridae</i>		<i>Eah2virus</i>		New genus	[19]
<i>Caudovirales</i>	<i>Myoviridae</i>		<i>Eah2virus</i>	<i>Erwinia virus EaH2</i>	New (type) species	[19]
<i>Caudovirales</i>	<i>Myoviridae</i>		<i>Eah2virus</i>	<i>Erwinia virus Asesino</i>	New species	[19]
<i>Caudovirales</i>	<i>Podoviridae</i>		<i>Jwalphavirus</i>		New genus	[20]
<i>Caudovirales</i>	<i>Podoviridae</i>		<i>Jwalphavirus</i>	<i>Achromobacter virus JWAlpha</i>	New (type) species	[20]
<i>Caudovirales</i>	<i>Podoviridae</i>		<i>Jwalphavirus</i>	<i>Achromobacter virus Axp3</i>	New species	[20]
<i>Caudovirales</i>	<i>Podoviridae</i>		<i>P22virus</i>	<i>Salmonella virus BTPI</i>	New species	[21]
<i>Caudovirales</i>	<i>Myoviridae</i>		<i>Machinavirus</i>		New genus	[22]
<i>Caudovirales</i>	<i>Myoviridae</i>		<i>Machinavirus</i>	<i>Erwinia virus Machina</i>	New (type) species	[22]

Table 2 (continued)

Order	Family	Subfamily (blank = unassigned)	Genus	Species	Taxonomic change	References
Caudovirales	Siphoviridae		<i>Trigonaduovirus</i>		New genus	[23]
Caudovirales	Siphoviridae		<i>Trigonaduovirus</i>	<i>Mycobacterium virus 32HC</i>	New (type) species	[23]
Caudovirales	Siphoviridae		<i>Pfr1virus</i>		New genus	[24]
Caudovirales	Siphoviridae		<i>Pfr1virus</i>	<i>Propionibacterium virus PFR1</i>	New (type) species	[24]
Caudovirales	Siphoviridae		<i>Lambdavirus</i>	<i>Escherichia virus DE3</i>	New species	[25]
Caudovirales	Siphoviridae		<i>Lambdavirus</i>	<i>Escherichia virus HK629</i>	New species	[25]
Caudovirales	Siphoviridae		<i>Lambdavirus</i>	<i>Escherichia virus HK630</i>	New species	[25]
Unassigned	Belpaoviridae				New family	[26]
Unassigned	Belpaoviridae		<i>Semotivirus</i>		Move genus (with constituent species: <i>Anopheles gambiae</i> <i>Moose virus</i> , <i>Ascaris lumbricoides</i> <i>Tas virus</i> , <i>Bombyx mori</i> <i>Pao virus</i> , <i>Caenorhabditis elegans</i> <i>Cer13 virus</i> , <i>Drosophila melanogaster</i> <i>Bel virus</i> , <i>Drosophila melanogaster</i> <i>Roo virus</i> , <i>Drosophila simulans</i> <i>Ninja virus</i> , <i>Takifugu rubripes</i> <i>Suzu virus</i>)	[26]
Unassigned	Belpaoviridae		<i>Semotivirus</i>	<i>Takifugu rubripes</i> <i>Suzu virus</i>	Rename species (previous name: <i>Fugu rubripes</i> <i>Suzu virus</i>)	[26]
Unassigned	Belpaoviridae		<i>Semotivirus</i>	<i>Drosophila semotivirus Max</i>	New species	[26]
Unassigned	Belpaoviridae		<i>Semotivirus</i>	<i>Antherea semotivirus Tamy</i>	New species	[26]
Unassigned	Belpaoviridae		<i>Semotivirus</i>	<i>Schistosoma semotivirus Sinbad</i>	New species	[26]
Unassigned	Parvoviridae	<i>Parvovirinae</i>	<i>Amdoparvovirus</i>	<i>Carnivore amnoparvovirus 3</i>	New species	[27]
Unassigned	Parvoviridae	<i>Parvovirinae</i>	<i>Amdoparvovirus</i>	<i>Carnivore amnoparvovirus 4</i>	New species	[27]
Unassigned	Parvoviridae	<i>Parvovirinae</i>	<i>Bocaparvovirus</i>	<i>Carnivore bocaparvovirus 4</i>	New species	[28]
Unassigned	Parvoviridae	<i>Parvovirinae</i>	<i>Bocaparvovirus</i>	<i>Carnivore bocaparvovirus 5</i>	New species	[28]
Unassigned	Parvoviridae	<i>Parvovirinae</i>	<i>Bocaparvovirus</i>	<i>Carnivore bocaparvovirus 6</i>	New species	[28]
Unassigned	Parvoviridae	<i>Parvovirinae</i>	<i>Bocaparvovirus</i>	<i>Chiropteran bocaparvovirus 1</i>	New species	[28]
Unassigned	Parvoviridae	<i>Parvovirinae</i>	<i>Bocaparvovirus</i>	<i>Chiropteran bocaparvovirus 2</i>	New species	[28]
Unassigned	Parvoviridae	<i>Parvovirinae</i>	<i>Bocaparvovirus</i>	<i>Chiropteran bocaparvovirus 3</i>	New species	[28]
Unassigned	Parvoviridae	<i>Parvovirinae</i>	<i>Bocaparvovirus</i>	<i>Chiropteran bocaparvovirus 4</i>	New species	[28]
Unassigned	Parvoviridae	<i>Parvovirinae</i>	<i>Bocaparvovirus</i>	<i>Lagomorph bocaparvovirus 1</i>	New species	[28]
Unassigned	Parvoviridae	<i>Parvovirinae</i>	<i>Bocaparvovirus</i>	<i>Ungulate bocaparvovirus 6</i>	New species	[28]
Unassigned	Parvoviridae	<i>Parvovirinae</i>	<i>Protoparvovirus</i>	<i>Chiropteran protoparvovirus 1</i>	New species	[29]
Unassigned	Parvoviridae	<i>Parvovirinae</i>	<i>Protoparvovirus</i>	<i>Eulipotyphla protoparvovirus 1</i>	New species	[29]
Unassigned	Parvoviridae	<i>Parvovirinae</i>	<i>Protoparvovirus</i>	<i>Primate protoparvovirus 2</i>	New species	[29]
Unassigned	Parvoviridae	<i>Parvovirinae</i>	<i>Protoparvovirus</i>	<i>Primate protoparvovirus 3</i>	New species	[29]
Unassigned	Parvoviridae	<i>Parvovirinae</i>	<i>Protoparvovirus</i>	<i>Rodent protoparvovirus 3</i>	New species	[29]
Unassigned	Parvoviridae	<i>Parvovirinae</i>	<i>Protoparvovirus</i>	<i>Ungulate protoparvovirus 2</i>	New species	[29]
Unassigned	Iridoviridae	<i>Alphairidovirinae</i>	<i>Ranavirus</i>	<i>Common midwife toad virus</i>	New species	[30]
Unassigned	Retroviridae	<i>Spumaretrovirinae</i>	<i>Simiispumavirus</i>		Rename genus (previous name: <i>Spuma-virus</i>)	[31]

Table 2 (continued)

Order	Family	Subfamily (blank = unassigned)	Genus	Species	Taxonomic change	References
Unassigned	Retroviridae	Spumaretrovirinae	Simiispumavirus	<i>Eastern chimpanzee simian foamy virus</i>	Rename species (previous name: <i>Simian foamy virus</i>)	[31]
Unassigned	Retroviridae	Spumaretrovirinae	Simiispumavirus	<i>Western chimpanzee simian foamy virus</i>	New species	[31]
Unassigned	Retroviridae	Spumaretrovirinae	Simiispumavirus	<i>Central chimpanzee simian foamy virus</i>	New species	[31]
Unassigned	Retroviridae	Spumaretrovirinae	Simiispumavirus	<i>Western lowland gorilla simian foamy virus</i>	New species	[31]
Unassigned	Retroviridae	Spumaretrovirinae	Simiispumavirus	<i>Bornean orangutan simian foamy virus</i>	New species	[31]
Unassigned	Retroviridae	Spumaretrovirinae	Simiispumavirus	<i>Taiwanese macaque simian foamy virus</i>	Rename species (previous name: <i>Macaque simian foamy virus</i>)	[31]
Unassigned	Retroviridae	Spumaretrovirinae	Simiispumavirus	<i>Rhesus macaque simian foamy virus</i>	New species	[31]
Unassigned	Retroviridae	Spumaretrovirinae	Simiispumavirus	<i>Japanese macaque simian foamy virus</i>	New species	[31]
Unassigned	Retroviridae	Spumaretrovirinae	Simiispumavirus	<i>Grievet simian foamy virus</i>	Rename species (previous name: <i>African green monkey simian foamy virus</i>)	[31]
Unassigned	Retroviridae	Spumaretrovirinae	Simiispumavirus	<i>Guenon simian foamy virus</i>	New species	[31]
Unassigned	Retroviridae	Spumaretrovirinae	Simiispumavirus	<i>Spider monkey simian foamy virus</i>	New species	[31]
Unassigned	Retroviridae	Spumaretrovirinae	Simiispumavirus	<i>White-tufted-eared marmoset simian foamy virus</i>	New species	[31]
Unassigned	Retroviridae	Spumaretrovirinae	Simiispumavirus	<i>Squirrel monkey simian foamy virus</i>	New species	[31]
Unassigned	Retroviridae	Spumaretrovirinae	Simiispumavirus	<i>Yellow-breasted capuchin simian foamy virus</i>	New species	[31]
Unassigned	Retroviridae	Spumaretrovirinae	Prosimiispumavirus		New genus	[31]
Unassigned	Retroviridae	Spumaretrovirinae	Prosimiispumavirus	<i>Brown greater galago prosimian foamy virus</i>	New (type) species	[31]
Unassigned	Retroviridae	Spumaretrovirinae	Bovispumavirus		New genus	[31]
Unassigned	Retroviridae	Spumaretrovirinae	Bovispumavirus	<i>Bovine foamy virus</i>	Move species to be type species (previous position: <i>Retroviridae/Spumaretrovirinae/Spumavirus</i>)	[31]
Unassigned	Retroviridae	Spumaretrovirinae	Felispumavirus		New genus	[31]
Unassigned	Retroviridae	Spumaretrovirinae	Felispumavirus	<i>Feline foamy virus</i>	move species to be type species (previous position: <i>Retroviridae/Spumaretrovirinae/Spumavirus</i>)	[31]
Unassigned	Retroviridae	Spumaretrovirinae	Felispumavirus	<i>Puma feline foamy virus</i>	New species	[31]
Unassigned	Retroviridae	Spumaretrovirinae	Equispumavirus		New genus	[31]
Unassigned	Retroviridae	Spumaretrovirinae	Equispumavirus	<i>Equine foamy virus</i>	Move species to be type species (previous position: <i>Retroviridae/Spumaretrovirinae/Spumavirus</i>)	[31]
Unassigned	Polyomaviridae		unassigned	<i>Rhynchosbatus djiddensis polyomavirus 1</i>	New unassigned species	[32]
Unassigned	Polyomaviridae		Betapolyomavirus	<i>Vicugna pacos polyomavirus 1</i>	New species	[32]
Unassigned	Polyomaviridae		Betapolyomavirus	<i>Rattus norvegicus polyomavirus 2</i>	New species	[32]
Unassigned	Polyomaviridae		Betapolyomavirus	<i>Leptonychotes weddellii polyomavirus 1</i>	New species	[32]
Unassigned	Polyomaviridae		Alphapolyomavirus	<i>Piliocolobus badius polyomavirus 1</i>	New species	[32]
Unassigned	Polyomaviridae		Gammopolyomavirus	<i>Lonchura maja polyomavirus 1</i>	New species	[32]
Unassigned	Polyomaviridae		Gammopolyomavirus	<i>Erythrura gouldiae polyomavirus 1</i>	New species	[32]

Table 2 (continued)

Order	Family	Subfamily (blank = unassigned)	Genus	Species	Taxonomic change	References
Unassigned	<i>Polyomaviridae</i>		<i>unassigned</i>	<i>Trematomus pennellii polyomavirus 1</i>	New species	[32]
Unassigned	<i>Baculoviridae</i>		<i>Betabaculovirus</i>	<i>Cnaphalocrocis medinalis granulovirus</i>	New species	[33]
Unassigned	<i>Baculoviridae</i>		<i>Betabaculovirus</i>	<i>Mythimna unipuncta granulovirus A</i>	Rename species (previous name: <i>Pseudalatitia unipuncta granulovirus</i>)	[33]
Unassigned	<i>Baculoviridae</i>		<i>Betabaculovirus</i>	<i>Mythimna unipuncta granulovirus B</i>	New species	[33]
Unassigned	<i>Circoviridae</i>		<i>Circovirus</i>	<i>Porcine circovirus 3</i>	New species	[34]
Unassigned	<i>Circoviridae</i>		<i>Circovirus</i>	<i>Bat associated circovirus 9</i>	New species	[34]
Unassigned	<i>Circoviridae</i>		<i>Cyclovirus</i>	<i>Mouse associated cyclovirus 1</i>	New species	[34]
Unassigned	<i>Circoviridae</i>		<i>Cyclovirus</i>	<i>Human associated cyclovirus 12</i>	New species	[34]
Unassigned	<i>Papillomaviridae</i>	<i>Firstpapillomavirinae</i>			New subfamily	[35]
Unassigned	<i>Papillomaviridae</i>	<i>Firstpapillomavirinae</i>	<i>Alphapapillomavirus</i>		Assign genus and constituent species (<i>Alphapapillomavirus 1</i> to <i>Alphapapillomavirus 14</i> , inclusive) to new subfamily	[35]
Unassigned	<i>Papillomaviridae</i>	<i>Firstpapillomavirinae</i>	<i>Betapapillomavirus</i>		Assign genus and constituent species (<i>Betapapillomavirus 1</i> to <i>Betapapillomavirus 6</i> , inclusive) to new subfamily	[35]
Unassigned	<i>Papillomaviridae</i>	<i>Firstpapillomavirinae</i>	<i>Chipapillomavirus</i>		Assign genus and constituent species (<i>Chipapillomavirus 1</i> , <i>Chipapillomavirus 2</i> , <i>Chipapillomavirus 3</i>) to new subfamily	[35]
Unassigned	<i>Papillomaviridae</i>	<i>Firstpapillomavirinae</i>	<i>Deltapapillomavirus</i>		Assign genus and constituent species (<i>Deltapapillomavirus 1</i> to <i>Deltapapillomavirus 6</i> , inclusive) to new subfamily	[35]
Unassigned	<i>Papillomaviridae</i>	<i>Firstpapillomavirinae</i>	<i>Dyochipapillomavirus</i>		Assign genus and constituent species (<i>Dyochipapillomavirus 1</i>) to new subfamily	[35]
Unassigned	<i>Papillomaviridae</i>	<i>Firstpapillomavirinae</i>	<i>Dyodeltapapillomavirus</i>		Assign genus and constituent species (<i>Dyodeltapapillomavirus 1</i>) to new subfamily	[35]
Unassigned	<i>Papillomaviridae</i>	<i>Firstpapillomavirinae</i>	<i>Dyoepsilonpapillomavirus</i>		Assign genus and constituent species (<i>Dyoepsilonpapillomavirus 1</i>) to new subfamily	[35]
Unassigned	<i>Papillomaviridae</i>	<i>Firstpapillomavirinae</i>	<i>Dyoetapapillomavirus</i>		Assign genus and constituent species (<i>Dyoetapapillomavirus 1</i>) to new subfamily	[35]
Unassigned	<i>Papillomaviridae</i>	<i>Firstpapillomavirinae</i>	<i>Dyoiotapapillomavirus</i>		Assign genus and constituent species (<i>Dyoiotapapillomavirus 1</i> , <i>Dyoiotapapillomavirus 2</i>) to new subfamily	[35]
Unassigned	<i>Papillomaviridae</i>	<i>Firstpapillomavirinae</i>	<i>Dyokappapapillomavirus</i>		Assign genus and constituent species (<i>Dyokappapapillomavirus 1</i> , <i>Dyokappapapillomavirus 2</i>) to new subfamily	[35]
Unassigned	<i>Papillomaviridae</i>	<i>Firstpapillomavirinae</i>	<i>Dyolambdapapillomavirus</i>		Assign genus and constituent species (<i>Dyolambdapapillomavirus 1</i>) to new subfamily	[35]
Unassigned	<i>Papillomaviridae</i>	<i>Firstpapillomavirinae</i>	<i>Dyomupapillomavirus</i>		Assign genus and constituent species (<i>Dyomupapillomavirus 1</i>) to new subfamily	[35]

Table 2 (continued)

Order	Family	Subfamily (blank = unassigned)	Genus	Species	Taxonomic change	References
Unassigned	<i>Papillomaviridae</i>	<i>Firstpapillomavirinae</i>	<i>Dyonupapillomavirus</i>		Assign genus and constituent species (<i>Dyonupapillomavirus 1</i>) to new subfamily	[35]
Unassigned	<i>Papillomaviridae</i>	<i>Firstpapillomavirinae</i>	<i>Dyoomegapapillomavirus</i>		Assign genus and constituent species (<i>Dyoomegapapillomavirus 1</i>) to new subfamily	[35]
Unassigned	<i>Papillomaviridae</i>	<i>Firstpapillomavirinae</i>	<i>Dyoomikronpapillomavirus</i>		Assign genus and constituent species (<i>Dyoomikronpapillomavirus 1</i>) to new subfamily	[35]
Unassigned	<i>Papillomaviridae</i>	<i>Firstpapillomavirinae</i>	<i>Dyophipapillomavirus</i>		Assign genus and constituent species (<i>Dyophipapillomavirus 1</i>) to new subfamily	[35]
Unassigned	<i>Papillomaviridae</i>	<i>Firstpapillomavirinae</i>	<i>Dyopipapillomavirus</i>		Assign genus and constituent species (<i>Dyopipapillomavirus 1</i>) to new subfamily	[35]
Unassigned	<i>Papillomaviridae</i>	<i>Firstpapillomavirinae</i>	<i>Dyopsipapillomavirus</i>		Assign genus and constituent species (<i>Dyopsipapillomavirus 1</i>) to new subfamily	[35]
Unassigned	<i>Papillomaviridae</i>	<i>Firstpapillomavirinae</i>	<i>Dyorhopapillomavirus</i>		Assign genus and constituent species (<i>Dyorhopapillomavirus 1</i>) to new subfamily	[35]
Unassigned	<i>Papillomaviridae</i>	<i>Firstpapillomavirinae</i>	<i>Dyosigmepapillomavirus</i>		Assign genus and constituent species (<i>Dyosigmepapillomavirus 1</i>) to new subfamily	[35]
Unassigned	<i>Papillomaviridae</i>	<i>Firstpapillomavirinae</i>	<i>Dyotaupapillomavirus</i>		Assign genus and constituent species (<i>Dyotaupapillomavirus 1</i>) to new subfamily	[35]
Unassigned	<i>Papillomaviridae</i>	<i>Firstpapillomavirinae</i>	<i>Dyothetapapillomavirus</i>		Assign genus and constituent species (<i>Dyothetapapillomavirus 1</i>) to new subfamily	[35]
Unassigned	<i>Papillomaviridae</i>	<i>Firstpapillomavirinae</i>	<i>Dyousilonpapillomavirus</i>		Assign genus and constituent species (<i>Dyousilonpapillomavirus 1</i>) to new subfamily	[35]
Unassigned	<i>Papillomaviridae</i>	<i>Firstpapillomavirinae</i>	<i>Dyxipapillomavirus</i>		Assign genus and constituent species (<i>Dyxipapillomavirus 1</i>) to new subfamily	[35]
Unassigned	<i>Papillomaviridae</i>	<i>Firstpapillomavirinae</i>	<i>Dyzetapapillomavirus</i>		Assign genus and constituent species (<i>Dyzetapapillomavirus 1</i>) to new subfamily	[35]
Unassigned	<i>Papillomaviridae</i>	<i>Firstpapillomavirinae</i>	<i>Epsilonpapillomavirus</i>		Assign genus and constituent species (<i>Epsilonpapillomavirus 1</i>) to new subfamily	[35]
Unassigned	<i>Papillomaviridae</i>	<i>Firstpapillomavirinae</i>	<i>Etapapillomavirus</i>		Assign genus and constituent species (<i>Etapapillomavirus 1</i>) to new subfamily	[35]
Unassigned	<i>Papillomaviridae</i>	<i>Firstpapillomavirinae</i>	<i>Gammapapillomavirus</i>		Assign genus and constituent species (<i>Gammapapillomavirus 1</i> to <i>Gammapapillomavirus 26</i> , inclusive) to new subfamily	[35]
Unassigned	<i>Papillomaviridae</i>	<i>Firstpapillomavirinae</i>	<i>Iotapapillomavirus</i>		Assign genus and constituent species (<i>Iotapapillomavirus 1</i>) to new subfamily	[35]
Unassigned	<i>Papillomaviridae</i>	<i>Firstpapillomavirinae</i>	<i>Kappapapillomavirus</i>		Assign genus and constituent species (<i>Kappapapillomavirus 1</i> , <i>Kappapapillomavirus 2</i>) to new subfamily	[35]

Table 2 (continued)

Order	Family	Subfamily (blank = unassigned)	Genus	Species	Taxonomic change	References
Unassigned	Papillomaviridae	<i>Firstpapillomavirinae</i>	<i>Lambdapapillomavirus</i>		Assign genus and constituent species (<i>Lambdapapillomavirus 1</i> to <i>Lambdapapillomavirus 5</i> , inclusive) to new subfamily	[35]
Unassigned	Papillomaviridae	<i>Firstpapillomavirinae</i>	<i>Mupapillomavirus</i>		Assign genus and constituent species (<i>Mupapillomavirus 1</i> , <i>Mupapillomavirus 2</i> , <i>Mupapillomavirus 3</i>) to new subfamily	[35]
Unassigned	Papillomaviridae	<i>Firstpapillomavirinae</i>	<i>Nupapillomavirus</i>		Assign genus and constituent species (<i>Nupapillomavirus 1</i>) to new subfamily	[35]
Unassigned	Papillomaviridae	<i>Firstpapillomavirinae</i>	<i>Omegapapillomavirus</i>		Assign genus and constituent species (<i>Omegapapillomavirus 1</i>) to new subfamily	[35]
Unassigned	Papillomaviridae	<i>Firstpapillomavirinae</i>	<i>Omkronpapillomavirus</i>		Assign genus and constituent species (<i>Omkronpapillomavirus 1</i>) to new subfamily	[35]
Unassigned	Papillomaviridae	<i>Firstpapillomavirinae</i>	<i>Phipapillomavirus</i>		Assign genus and constituent species (<i>Phipapillomavirus 1</i>) to new subfamily	[35]
Unassigned	Papillomaviridae	<i>Firstpapillomavirinae</i>	<i>Pipapillomavirus</i>		Assign genus and constituent species (<i>Pipapillomavirus 1</i> , <i>Pipapillomavirus 2</i>) to new subfamily	[35]
Unassigned	Papillomaviridae	<i>Firstpapillomavirinae</i>	<i>Psipapillomavirus</i>		Assign genus and constituent species (<i>Psipapillomavirus 1</i>) to new subfamily	[35]
Unassigned	Papillomaviridae	<i>Firstpapillomavirinae</i>	<i>Rhopapillomavirus</i>		Assign genus and constituent species (<i>Rhopapillomavirus 1</i> , <i>Rhopapillomavirus 2</i>) to new subfamily	[35]
Unassigned	Papillomaviridae	<i>Firstpapillomavirinae</i>	<i>Sigmapapillomavirus</i>		Assign genus and constituent species (<i>Sigmapapillomavirus 1</i>) to new subfamily	[35]
Unassigned	Papillomaviridae	<i>Firstpapillomavirinae</i>	<i>Taupapillomavirus</i>		Assign genus and constituent species (<i>Taupapillomavirus 1</i> , <i>Taupapillomavirus 2</i> , <i>Taupapillomavirus 3</i>) to new subfamily	[35]
Unassigned	Papillomaviridae	<i>Firstpapillomavirinae</i>	<i>Thetapapillomavirus</i>		Assign genus and constituent species (<i>Thetapapillomavirus 1</i>) to new subfamily	[35]
Unassigned	Papillomaviridae	<i>Firstpapillomavirinae</i>	<i>Treisdelta papillomavirus</i>		Assign genus and constituent species (<i>Treisdelta papillomavirus 1</i>) to new subfamily	[35]
unassigned	Papillomaviridae	<i>Firstpapillomavirinae</i>	<i>Treisepsilon papillomavirus</i>		Assign genus and constituent species (<i>Treisepsilon papillomavirus 1</i>) to new subfamily	[35]
Unassigned	Papillomaviridae	<i>Firstpapillomavirinae</i>	<i>Treisetapapillomavirus</i>		Assign genus and constituent species (<i>Treisetapapillomavirus 1</i>) to new subfamily	[35]
Unassigned	Papillomaviridae	<i>Firstpapillomavirinae</i>	<i>Treiszeta papillomavirus</i>		Assign genus and constituent species (<i>Treiszeta papillomavirus 1</i>) to new subfamily	[35]
Unassigned	Papillomaviridae	<i>Firstpapillomavirinae</i>	<i>Upsilon papillomavirus</i>		Assign genus and constituent species (<i>Upsilon papillomavirus 1</i> , <i>Upsilon papillomavirus 2</i> , <i>Upsilon papillomavirus 3</i>) to new subfamily	[35]
Unassigned	Papillomaviridae	<i>Firstpapillomavirinae</i>	<i>Xipapillomavirus</i>		Assign genus and constituent species (<i>Xipapillomavirus 1</i> , <i>Xipapillomavirus 2</i> , <i>Xipapillomavirus 3</i>) to new subfamily	[35]

Table 2 (continued)

Order	Family	Subfamily (blank = unassigned)	Genus	Species	Taxonomic change	References
Unassigned	<i>Papillomaviridae</i>	<i>Firstpapillomavirinae</i>	<i>Zetapapillomavirus</i>		Assign genus and constituent species (<i>Zeta-papillomavirus 1</i>) to new subfamily	[35]
Unassigned	<i>Papillomaviridae</i>	<i>Firstpapillomavirinae</i>	<i>Gammapapillomavirus</i>	<i>Gammapapillomavirus 27</i>	New species	[35]
Unassigned	<i>Papillomaviridae</i>	<i>Firstpapillomavirinae</i>	<i>Treisithetapapillomavirus</i>		New genus	[35]
Unassigned	<i>Papillomaviridae</i>	<i>Firstpapillomavirinae</i>	<i>Treisithetapapillomavirus</i>	<i>Treisithetapapillomavirus 1</i>	New (type) species	[35]
Unassigned	<i>Papillomaviridae</i>	<i>Firstpapillomavirinae</i>	<i>Psipapillomavirus</i>	<i>Psipapillomavirus 2</i>	New species	[35]
Unassigned	<i>Papillomaviridae</i>	<i>Firstpapillomavirinae</i>	<i>Psipapillomavirus</i>	<i>Psipapillomavirus 3</i>	New species	[35]
Unassigned	<i>Papillomaviridae</i>	<i>Firstpapillomavirinae</i>	<i>Epsilonpapillomavirus</i>	<i>Epsilonpapillomavirus 2</i>	New species	[35]
Unassigned	<i>Papillomaviridae</i>	<i>Firstpapillomavirinae</i>	<i>Iotapapillomavirus</i>	<i>Iotapapillomavirus 2</i>	New species	[35]
Unassigned	<i>Papillomaviridae</i>	<i>Firstpapillomavirinae</i>	<i>Treisiotapapillomavirus</i>		New genus	[35]
Unassigned	<i>Papillomaviridae</i>	<i>Firstpapillomavirinae</i>	<i>Treisiotapapillomavirus</i>	<i>Treisiotapapillomavirus 1</i>	New (type) species	[35]
Unassigned	<i>Papillomaviridae</i>	<i>Firstpapillomavirinae</i>	<i>Taupapillomavirus</i>	<i>Taupapillomavirus 4</i>	New species	[35]
Unassigned	<i>Papillomaviridae</i>	<i>Firstpapillomavirinae</i>	<i>Dyokappapapillomavirus</i>	<i>Dyokappapapillomavirus 3</i>	New species	[35]
Unassigned	<i>Papillomaviridae</i>	<i>Firstpapillomavirinae</i>	<i>Xipapillomavirus</i>	<i>Xipapillomavirus 4</i>	New species	[35]
Unassigned	<i>Papillomaviridae</i>	<i>Firstpapillomavirinae</i>	<i>Dyokappapapillomavirus</i>	<i>Dyokappapapillomavirus 4</i>	New species	[35]
Unassigned	<i>Papillomaviridae</i>	<i>Firstpapillomavirinae</i>	<i>Dyoxipapillomavirus</i>	<i>Dyoxipapillomavirus 2</i>	New species	[35]
Unassigned	<i>Papillomaviridae</i>	<i>Firstpapillomavirinae</i>	<i>Treiskappapapillomavirus</i>		New genus	[35]
Unassigned	<i>Papillomaviridae</i>	<i>Firstpapillomavirinae</i>	<i>Treiskappapapillomavirus</i>	<i>Treiskappapapillomavirus 1</i>	New (type) species	[35]
Unassigned	<i>Papillomaviridae</i>	<i>Firstpapillomavirinae</i>	<i>Xipapillomavirus</i>	<i>Xipapillomavirus 5</i>	New species	[35]
Unassigned	<i>Papillomaviridae</i>	<i>Firstpapillomavirinae</i>	<i>Dyokappapapillomavirus</i>	<i>Dyokappapapillomavirus 5</i>	New species	[35]
Unassigned	<i>Papillomaviridae</i>	<i>Firstpapillomavirinae</i>	<i>Deltapapillomavirus</i>	<i>Deltapapillomavirus 7</i>	New species	[35]
Unassigned	<i>Papillomaviridae</i>	<i>Secondpapillomavirinae</i>			New subfamily	[35]
Unassigned	<i>Papillomaviridae</i>	<i>Secondpapillomavirinae</i>	<i>Alefpapillomavirus</i>		New genus	[35]
Unassigned	<i>Papillomaviridae</i>	<i>Secondpapillomavirinae</i>	<i>Alefpapillomavirus</i>	<i>Alefpapillomavirus 1</i>	New (type) species	[35]
Unassigned	<i>Smacoviridae</i>				New family	[36]
Unassigned	<i>Smacoviridae</i>		<i>Bovismacovirus</i>		New genus	[36]
Unassigned	<i>Smacoviridae</i>		<i>Bovismacovirus</i>	<i>Bovine associated bovismacovirus 1</i>	New (type) species	[36]
Unassigned	<i>Smacoviridae</i>		<i>Bovismacovirus</i>	<i>Bovine associated bovismacovirus 2</i>	New species	[36]
Unassigned	<i>Smacoviridae</i>		<i>Bovismacovirus</i>	<i>Dragonfly associated bovismacovirus 1</i>	New species	[36]
Unassigned	<i>Smacoviridae</i>		<i>Drosmacovirus</i>		New genus	[36]
Unassigned	<i>Smacoviridae</i>		<i>Drosmacovirus</i>	<i>Camel associated drosmacovirus 1</i>	New (type) species	[36]
Unassigned	<i>Smacoviridae</i>		<i>Drosmacovirus</i>	<i>Bovine associated drosmacovirus 1</i>	New species	[36]
Unassigned	<i>Smacoviridae</i>		<i>Drosmacovirus</i>	<i>Camel associated drosmacovirus 2</i>	New species	[36]
Unassigned	<i>Smacoviridae</i>		<i>Huchismacovirus</i>		New genus	[36]
Unassigned	<i>Smacoviridae</i>		<i>Huchismacovirus</i>	<i>Bovine associated huchismacovirus 1</i>	New species	[36]
Unassigned	<i>Smacoviridae</i>		<i>Huchismacovirus</i>	<i>Chicken associated huchismacovirus 1</i>	New species	[36]
Unassigned	<i>Smacoviridae</i>		<i>Huchismacovirus</i>	<i>Human associated huchismacovirus 1</i>	New (type) species	[36]
Unassigned	<i>Smacoviridae</i>		<i>Huchismacovirus</i>	<i>Chicken associated huchismacovirus 2</i>	New species	[36]
Unassigned	<i>Smacoviridae</i>		<i>Huchismacovirus</i>	<i>Human associated huchismacovirus 2</i>	New species	[36]

Table 2 (continued)

Order	Family	Subfamily (blank = unassigned)	Genus	Species	Taxonomic change	References
Unassigned	<i>Smacoviridae</i>		<i>Huchismacovirus</i>	<i>Human associated huchismacovirus 3</i>	New species	[36]
Unassigned	<i>Smacoviridae</i>		<i>Huchismacovirus</i>	<i>Bovine associated huchismacovirus 2</i>	New species	[36]
Unassigned	<i>Smacoviridae</i>		<i>Porprismacovirus</i>		New genus	[36]
Unassigned	<i>Smacoviridae</i>		<i>Porprismacovirus</i>	<i>Camel associated porprismacovirus 1</i>	New species	[36]
Unassigned	<i>Smacoviridae</i>		<i>Porprismacovirus</i>	<i>Bovine associated porprismacovirus 1</i>	New species	[36]
Unassigned	<i>Smacoviridae</i>		<i>Porprismacovirus</i>	<i>Sheep associated porprismacovirus 2</i>	New species	[36]
Unassigned	<i>Smacoviridae</i>		<i>Porprismacovirus</i>	<i>Porcine associated porprismacovirus 10</i>	New species	[36]
Unassigned	<i>Smacoviridae</i>		<i>Porprismacovirus</i>	<i>Chimpanzee associated porprismacovirus 1</i>	New (type) species	[36]
Unassigned	<i>Smacoviridae</i>		<i>Porprismacovirus</i>	<i>Chimpanzee associated porprismacovirus 2</i>	New species	[36]
Unassigned	<i>Smacoviridae</i>		<i>Porprismacovirus</i>	<i>Human associated porprismacovirus 1</i>	New species	[36]
Unassigned	<i>Smacoviridae</i>		<i>Porprismacovirus</i>	<i>Porcine associated porprismacovirus 1</i>	New species	[36]
Unassigned	<i>Smacoviridae</i>		<i>Porprismacovirus</i>	<i>Porcine associated porprismacovirus 5</i>	New species	[36]
Unassigned	<i>Smacoviridae</i>		<i>Porprismacovirus</i>	<i>Porcine associated porprismacovirus 4</i>	New species	[36]
Unassigned	<i>Smacoviridae</i>		<i>Porprismacovirus</i>	<i>Howler monkey associated porprismacovirus 1</i>	New species	[36]
Unassigned	<i>Smacoviridae</i>		<i>Porprismacovirus</i>	<i>Human-associated porprismacovirus 2</i>	New species	[36]
Unassigned	<i>Smacoviridae</i>		<i>Porprismacovirus</i>	<i>Turkey associated porprismacovirus 1</i>	New species	[36]
Unassigned	<i>Smacoviridae</i>		<i>Porprismacovirus</i>	<i>Porcine associated porprismacovirus 8</i>	New species	[36]
Unassigned	<i>Smacoviridae</i>		<i>Porprismacovirus</i>	<i>Porcine associated porprismacovirus 6</i>	New species	[36]
Unassigned	<i>Smacoviridae</i>		<i>Porprismacovirus</i>	<i>Lemur associated porprismacovirus 1</i>	New species	[36]
Unassigned	<i>Smacoviridae</i>		<i>Porprismacovirus</i>	<i>Rat associated porprismacovirus 1</i>	New species	[36]
Unassigned	<i>Smacoviridae</i>		<i>Porprismacovirus</i>	<i>Porcine associated porprismacovirus 2</i>	New species	[36]
Unassigned	<i>Smacoviridae</i>		<i>Porprismacovirus</i>	<i>Porcine associated porprismacovirus 3</i>	New species	[36]
Unassigned	<i>Smacoviridae</i>		<i>Porprismacovirus</i>	<i>Camel associated porprismacovirus 2</i>	New species	[36]
Unassigned	<i>Smacoviridae</i>		<i>Porprismacovirus</i>	<i>Porcine associated porprismacovirus 9</i>	New species	[36]
Unassigned	<i>Smacoviridae</i>		<i>Porprismacovirus</i>	<i>Camel associated porprismacovirus 3</i>	New species	[36]
Unassigned	<i>Smacoviridae</i>		<i>Porprismacovirus</i>	<i>Camel associated porprismacovirus 4</i>	New species	[36]
Unassigned	<i>Smacoviridae</i>		<i>Porprismacovirus</i>	<i>Porcine associated porprismacovirus 7</i>	New species	[36]
Unassigned	<i>Smacoviridae</i>		<i>Porprismacovirus</i>	<i>Gorilla associated porprismacovirus 1</i>	New species	[36]
Unassigned	<i>Smacoviridae</i>		<i>Porprismacovirus</i>	<i>Sheep associated porprismacovirus 1</i>	New species	[36]
Unassigned	<i>Smacoviridae</i>		<i>Porprismacovirus</i>	<i>Sheep associated porprismacovirus 3</i>	New species	[36]
Unassigned	<i>Smacoviridae</i>		<i>Cosmacovirus</i>		New genus	[36]
Unassigned	<i>Smacoviridae</i>		<i>Cosmacovirus</i>	<i>Bovine associated cosmacovirus 1</i>	New (type) species	[36]
Unassigned	<i>Smacoviridae</i>		<i>Dragsmacovirus</i>		New genus	[36]
Unassigned	<i>Smacoviridae</i>		<i>Dragsmacovirus</i>	<i>Dragonfly associated dragsmacovirus 1</i>	New (type) species	[36]
<i>Herpesvirales</i>	<i>Alloherpesviridae</i>		<i>Batrachovirus</i>	<i>Ranid herpesvirus 3</i>	New species	[37]
<i>Ortervirales</i>					New order	[38]
<i>Ortervirales</i>	<i>Belpaoviridae</i>				Assign new family proposed in ref [26] to new order	[38]
<i>Ortervirales</i>	<i>Caulimoviridae</i>				Assign family to new order	[38]

Table 2 (continued)

Order	Family	Subfamily (blank = unassigned)	Genus	Species	Taxonomic change	References
<i>Ortervirales</i>	<i>Metaviridae</i>				Assign family to new order	[38]
<i>Ortervirales</i>	<i>Pseudoviridae</i>				Assign family to new order	[38]
<i>Ortervirales</i>	<i>Retroviridae</i>				Assign family to new order	[38]
Unassigned	<i>Adenoviridae</i>		<i>Mastadenovirus</i>	<i>Bat mastadenovirus C</i>	New species	[39]
Unassigned	<i>Adenoviridae</i>		<i>Mastadenovirus</i>	<i>Bat mastadenovirus D</i>	New species	[39]
Unassigned	<i>Adenoviridae</i>		<i>Mastadenovirus</i>	<i>Bat mastadenovirus E</i>	New species	[39]
Unassigned	<i>Adenoviridae</i>		<i>Mastadenovirus</i>	<i>Bat mastadenovirus F</i>	New species	[39]
Unassigned	<i>Adenoviridae</i>		<i>Mastadenovirus</i>	<i>Bat mastadenovirus G</i>	New species	[39]
Unassigned	<i>Adenoviridae</i>		<i>Mastadenovirus</i>	<i>Simian mastadenovirus I</i>	New species	[39]
Unassigned	<i>Adenoviridae</i>		<i>Aviadenovirus</i>	<i>Psittacine aviadenovirus B</i>	New species	[39]
Unassigned	<i>Adenoviridae</i>		<i>Aviadenovirus</i>	<i>Pigeon aviadenovirus B</i>	New species	[39]
Unassigned	<i>Hepadnaviridae</i>		Unassigned	<i>Bluegill hepatitis B virus</i>	New species	[40]
Unassigned	<i>Hepadnaviridae</i>		Unassigned	<i>Tibetan frog hepatitis B virus</i>	New species	[40]
Unassigned	<i>Adenoviridae</i>		<i>Atadenovirus</i>	<i>Deer atadenovirus A</i>	New species	[41]
Unassigned	<i>Adenoviridae</i>		<i>Mastadenovirus</i>	<i>Deer mastadenovirus B</i>	New species	[41]
Unassigned	<i>Adenoviridae</i>		<i>Mastadenovirus</i>	<i>Dolphin mastadenovirus B</i>	New species	[41]
Unassigned	<i>Adenoviridae</i>		<i>Mastadenovirus</i>	<i>Squirrel mastadenovirus A</i>	New species	[41]
Unassigned	<i>Bacilladnaviridae</i>				New family	[42]
Unassigned	<i>Bacilladnaviridae</i>		<i>Protobacilladnavirus</i>		Rename genus (previous name: <i>Bacilladnavirus</i>) and assign to new family	[42]
Unassigned	<i>Bacilladnaviridae</i>		<i>Protobacilladnavirus</i>	<i>Chaetoceros protobacilladnavirus 1</i>	Rename species (previous name: <i>Chaetoceros salsugineum DNA virus 01</i>)	[42]
Unassigned	<i>Bacilladnaviridae</i>		<i>Protobacilladnavirus</i>	<i>Chaetoceros protobacilladnavirus 2</i>	New species	[42]
Unassigned	<i>Bacilladnaviridae</i>		<i>Protobacilladnavirus</i>	<i>Chaetoceros protobacilladnavirus 3</i>	New species	[42]
Unassigned	<i>Bacilladnaviridae</i>		<i>Protobacilladnavirus</i>	<i>Chaetoceros protobacilladnavirus 4</i>	New species	[42]
Unassigned	<i>Bacilladnaviridae</i>		<i>Protobacilladnavirus</i>	<i>Snail associated protobacilladnavirus 1</i>	New species	[42]
Unassigned	<i>Bacilladnaviridae</i>		<i>Protobacilladnavirus</i>	<i>Snail associated protobacilladnavirus 2</i>	New species	[42]
Unassigned	<i>Bacilladnaviridae</i>		<i>Protobacilladnavirus</i>	<i>Marine protobacilladnavirus 1</i>	New species	[42]
Unassigned	<i>Bacilladnaviridae</i>		<i>Diatodnavirus</i>		New genus	[42]
Unassigned	<i>Bacilladnaviridae</i>		<i>Diatodnavirus</i>	<i>Chaetoceros diatodnavirus 1</i>	New (type) species	[42]
Unassigned	<i>Bacilladnaviridae</i>		<i>Kieseladnavirus</i>		New genus	[42]
Unassigned	<i>Bacilladnaviridae</i>		<i>Kieseladnavirus</i>	<i>Avon-Heathcote Estuary associated kieseladnavirus</i>	New (type) species	[42]
Unassigned	<i>Inoviridae</i>		<i>Plectrovirus</i>	<i>Achopleplasma virus L51</i>	Rename species (previous name: <i>Achopleplasma virus MV-L51</i>)	[43]
Unassigned	<i>Arenaviridae</i>		<i>Mammarenavirus</i>	<i>Serra do Navio mammarenavirus</i>	Rename species (previous name: <i>Amapari mammarenavirus</i>)	[43]
Unassigned	<i>Luteoviridae</i>		Unassigned	<i>Barley yellow dwarf virus GPV</i>	Rename species (previous name: <i>Barley yellow dwarf virus-GPV</i>)	[43]
Unassigned	<i>Luteoviridae</i>		<i>Luteovirus</i>	<i>Barley yellow dwarf virus kerII</i>	Rename species (previous name: <i>Barley yellow dwarf virus-kerII</i>)	[43]

Table 2 (continued)

Order	Family	Subfamily (blank = unassigned)	Genus	Species	Taxonomic change	References
Unassigned	Luteoviridae		Luteovirus	Barley yellow dwarf virus kerIII	Rename species (previous name: <i>Barley yellow dwarf virus-kerIII</i>)	[43]
Unassigned	Luteoviridae		Luteovirus	Barley yellow dwarf virus MAV	Rename species (previous name: <i>Barley yellow dwarf virus-MAV</i>)	[43]
Unassigned	Luteoviridae		Luteovirus	Barley yellow dwarf virus PAS	Rename species (previous name: <i>Barley yellow dwarf virus-PAS</i>)	[43]
Unassigned	Luteoviridae		Luteovirus	Barley yellow dwarf virus PAV	Rename species (previous name: <i>Barley yellow dwarf virus-PAV</i>)	[43]
Unassigned	Luteoviridae		Unassigned	Barley yellow dwarf virus SGV	Rename species (previous name: <i>Barley yellow dwarf virus-SGV</i>)	[43]
Unassigned	Luteoviridae		Polerovirus	Cereal yellow dwarf virus RPS	Rename species (previous name: <i>Barley yellow dwarf virus-RPS</i>)	[43]
Unassigned	Luteoviridae		Polerovirus	Cereal yellow dwarf virus RPV	Rename species (previous name: <i>Barley yellow dwarf virus-RPV</i>)	[43]
Picornavirales	Unassigned		Bacillarnavirus	Chaetoceros socialis forma radians RNA virus I	Rename species (previous name: <i>Chaetoceros socialis f. radians RNA virus 01</i>)	[43]
Unassigned	Polydnnaviridae		Bracovirus	Chelonus near curvimaculatus bracovirus	Rename species (previous name: <i>Chelonus nr. curvimaculatus bracovirus</i>)	[43]
Nidovirales	Arteriviridae		Simartevirus	DeBrazza monkey arterivirus	Rename species (previous name: <i>DeBrazza's monkey arterivirus</i>)	[43]
Unassigned	Metaviridae		Errantivirus	Drosophila melanogaster 17-6 virus	Rename species (previous name: <i>Drosophila melanogaster 17.6 virus</i>)	[43]
Unassigned	Partitiviridae		Unassigned	Gaeumannomyces graminis virus 0196A	Rename species (previous name: <i>Gaeumannomyces graminis virus 0196-A</i>)	[43]
Unassigned	Partitiviridae		Unassigned	Gaeumannomyces graminis virus T1A	Rename species (previous name: <i>Gaeumannomyces graminis virus T1-A</i>)	[43]
Picornavirales	Dicistroviridae		Triatovirus	Homalodisca coagulata virus I	Rename species (previous name: <i>Homalodisca coagulata virus-I</i>)	[43]
unassigned	Arenaviridae		Mammarenavirus	Argentinian mammarenavirus	Rename species (previous name: <i>Junín mammarenavirus</i>)	[43]
Tymovirales	Betaflexiviridae	Quinvirinae	Carlavirus	Kalanchoe latent virus	Rename species (previous name: <i>Kalanchoë latent virus</i>)	[43]
Unassigned	Potyviridae		Potyvirus	Kalanchoe mosaic virus	Rename species (previous name: <i>Kalanchoë mosaic virus</i>)	[43]
Unassigned	Caulimoviridae		Badnavirus	Kalanchoe top-spotting virus	Rename species (previous name: <i>Kalanchoë top-spotting virus</i>)	[43]
Unassigned	Luteoviridae		Polerovirus	Maize yellow dwarf virus RMV	Rename species (previous name: <i>Maize yellow dwarf virus-RMV</i>)	[43]
Unassigned	Poxviridae	Entomopoxvirinae	Unassigned	Melanoplus sanguinipes entomopoxvirus	Rename species (previous name: <i>Melanoplus sanguinipes entomopoxvirus 'O'</i>)	[43]
Unassigned	Caliciviridae		Nebovirus	Newbury I virus	Rename species (previous name: <i>Newbury-1 virus</i>)	[43]
Unassigned	Togaviridae		Alphavirus	Onyong-nyong virus	Rename species (previous name: <i>O'nyong-nyong virus</i>)	[43]

Table 2 (continued)

Order	Family	Subfamily (blank = unassigned)	Genus	Species	Taxonomic change	References
Unassigned	Arenaviridae		Mammarenavirus	<i>Paraguayan mammarenavirus</i>	Rename species (previous name: <i>Paraná mammarenavirus</i>)	[43]
Unassigned	Chrysoviridae		Chrysovirus	<i>Penicillium cyaneofulvum virus</i>	Rename species (previous name: <i>Penicillium cyaneo-fulvum virus</i>)	[43]
Unassigned	Arenaviridae		Mammarenavirus	<i>Cali mammarenavirus</i>	Rename species (previous name: <i>Pichindé mammarenavirus</i>)	[43]
Unassigned	Arenaviridae		Mammarenavirus	<i>Brazilian mammarenavirus</i>	Rename species (previous name: <i>Sabiá mammarenavirus</i>)	[43]
Unassigned	Totiviridae		Totivirus	<i>Saccharomyces cerevisiae virus LBCLa</i>	Rename species (previous name: <i>Saccharomyces cerevisiae virus L-BC (La)</i>)	[43]
Unassigned	Virgaviridae		Tobamovirus	<i>Opuntia chlorotic ringspot virus</i>	Rename species (previous name: <i>Sammons's Opuntia virus</i>)	[43]
Tymovirales	Betaflexiviridae	Quinvirinae	Carlavirus	<i>Sint-Jan onion latent virus</i>	Rename species (previous name: <i>Sint-Jan's onion latent virus</i>)	[43]
Picornavirales	Dicistroviridae		Aparavirus	<i>Solenopsis invicta virus I</i>	Rename species (previous name: <i>Solenopsis invicta virus-I</i>)	[43]
unassigned	Flaviviridae		Flavivirus	<i>Saint Louis encephalitis virus</i>	Rename species (previous name: <i>St. Louis encephalitis virus</i>)	[43]
Mononegavirales	Filoviridae		Ebolavirus	<i>Tai Forest ebolavirus</i>	Rename species (previous name: <i>Tai Forest ebolavirus</i>)	[43]
Unassigned	Pseudoviridae		Pseudovirus	<i>Triticum aestivum WIS2 virus</i>	Rename species (previous name: <i>Triticum aestivum WIS-2 virus</i>)	[43]
Picornavirales	Iflaviridae		Iflavirus	<i>Varroa destructor virus I</i>	Rename species (previous name: <i>Varroa destructor virus-I</i>)	[43]
Unassigned	Retroviridae	Orthoretrovirinae	Lentivirus	<i>Visna-maedi virus</i>	Rename species (previous name: <i>Visna/maedi virus</i>)	[43]
Unassigned	Potyviridae		Tritimovirus	<i>Yellow oat grass mosaic virus</i>	Rename species (previous name: <i>Yellow oat-grass mosaic virus</i>)	[43]
Unassigned	Pseudoviridae		Sirevirus	<i>Zea mays Opie2 virus</i>	Rename species (previous name: <i>Zea mays Opie-2 virus</i>)	[43]
Unassigned	Pseudoviridae		Sirevirus	<i>Zea mays Prem2 virus</i>	Rename species (previous name: <i>Zea mays Prem-2 virus</i>)	[43]
Unassigned	Pseudoviridae		Pseudovirus	<i>Zea mays Sto4 virus</i>	Rename species (previous name: <i>Zea mays Sto-4 virus</i>)	[43]
					See TP List for proposed change to ICVCN	[44]
Unassigned	Arenaviridae		Hartmanivirus		New genus	[45]
Unassigned	Arenaviridae		Hartmanivirus	<i>Haartman hartmanivirus</i>	New (type) species	[45]
Unassigned	Arenaviridae		Mammarenavirus	<i>Ryukyu mammarenavirus</i>	New species	[46]
Unassigned	Arenaviridae		Mammarenavirus	<i>Souris mammarenavirus</i>	New species	[47]
Mononegavirales	Bornaviridae		Orthobornavirus		Rename genus	[48]
Mononegavirales	Bornaviridae		Orthobornavirus	<i>Elapid 1 orthobornavirus</i>	Rename species (previous name: <i>Elapid 1 bornavirus</i>)	[48]
Mononegavirales	Bornaviridae		Orthobornavirus	<i>Mammalian 1 orthobornavirus</i>	Rename species (previous name: <i>Mammalian 1 bornavirus</i>)	[48]

Table 2 (continued)

Order	Family	Subfamily (blank = unassigned)	Genus	Species	Taxonomic change	References
<i>Mononegavirales</i>	<i>Bornaviridae</i>		<i>Orthobornavirus</i>	<i>Mammalian 2 orthobornavirus</i>	Rename species (previous name: <i>Mammalian 2 bornavirus</i>)	[48]
<i>Mononegavirales</i>	<i>Bornaviridae</i>		<i>Orthobornavirus</i>	<i>Passeriform 1 orthobornavirus</i>	Rename species (previous name: <i>Passeriform 1 bornavirus</i>)	[48]
<i>Mononegavirales</i>	<i>Bornaviridae</i>		<i>Orthobornavirus</i>	<i>Passeriform 2 orthobornavirus</i>	Rename species (previous name: <i>Passeriform 2 bornavirus</i>)	[48]
<i>Mononegavirales</i>	<i>Bornaviridae</i>		<i>Orthobornavirus</i>	<i>Psittaciform 1 orthobornavirus</i>	Rename species (previous name: <i>Psittaciform 1 bornavirus</i>)	[48]
<i>Mononegavirales</i>	<i>Bornaviridae</i>		<i>Orthobornavirus</i>	<i>Psittaciform 2 orthobornavirus</i>	Rename species (previous name: <i>Psittaciform 2 bornavirus</i>)	[48]
<i>Mononegavirales</i>	<i>Bornaviridae</i>		<i>Orthobornavirus</i>	<i>Waterbird 1 orthobornavirus</i>	Rename species (previous name: <i>Waterbird 1 bornavirus</i>)	[48]
<i>Mononegavirales</i>	<i>Bornaviridae</i>		<i>Carbovirus</i>		New genus	[49]
<i>Mononegavirales</i>	<i>Bornaviridae</i>		<i>Carbovirus</i>	<i>Queensland carbovirus</i>	New (type) species	[49]
<i>Mononegavirales</i>	<i>Bornaviridae</i>		<i>Carbovirus</i>	<i>Southwest carbovirus</i>	New species	[49]
<i>Bunyavirales</i>	<i>Peribunyaviridae</i>		<i>Orthobunyavirus</i>	<i>Wolkberg orthobunyavirus</i>	New species	[50]
<i>Bunyavirales</i>	<i>Nairoviridae</i>		<i>Orthonairovirus</i>	<i>Artashat orthonairovirus</i>	New species	[51]
<i>Bunyavirales</i>	<i>Nairoviridae</i>		<i>Orthonairovirus</i>	<i>Tamdy orthonairovirus</i>	Rename species (previous name: <i>Burana orthonairovirus</i>)	[51]
<i>Bunyavirales</i>	<i>Nairoviridae</i>		<i>Orthonairovirus</i>	<i>Chim orthonairovirus</i>	New species	[51]
<i>Mononegavirales</i>	<i>Rhabdoviridae</i>		<i>Ledantevirus</i>	<i>Kanyawara ledantevirus</i>	New species	[52]
<i>Mononegavirales</i>	<i>Paramyxoviridae</i>		<i>Avulavirus</i>	<i>Avian avulavirus 14</i>	New species	[53]
<i>Mononegavirales</i>	<i>Paramyxoviridae</i>		<i>Avulavirus</i>	<i>Avian avulavirus 15</i>	New species	[53]
<i>Mononegavirales</i>	<i>Paramyxoviridae</i>		<i>Avulavirus</i>	<i>Avian avulavirus 16</i>	New species	[53]
<i>Mononegavirales</i>	<i>Paramyxoviridae</i>		<i>Avulavirus</i>	<i>Avian avulavirus 17</i>	New species	[53]
<i>Mononegavirales</i>	<i>Paramyxoviridae</i>		<i>Avulavirus</i>	<i>Avian avulavirus 18</i>	New species	[53]
<i>Mononegavirales</i>	<i>Paramyxoviridae</i>		<i>Avulavirus</i>	<i>Avian avulavirus 19</i>	New species	[53]
Unassigned	<i>Orthomyxoviridae</i>		<i>Alphainfluenzavirus</i>		Rename genus (previous name: <i>Influenza-virus A</i>)	[54]
Unassigned	<i>Orthomyxoviridae</i>		<i>Betainfluenzavirus</i>		Rename genus (previous name: <i>Influenza-virus B</i>)	[54]
Unassigned	<i>Orthomyxoviridae</i>		<i>Gammainfluenzavirus</i>		Rename genus (previous name: <i>Influenza-virus C</i>)	[54]
Unassigned	<i>Orthomyxoviridae</i>		<i>Deltainfluenzavirus</i>		Rename genus (previous name: <i>Influenza-virus D</i>)	[54]
Unassigned	<i>Orthomyxoviridae</i>		<i>Isavirus</i>	<i>Salmon isavirus</i>	Rename species (previous name: <i>Infectious salmon anemia virus</i>)	[54]
Unassigned	<i>Orthomyxoviridae</i>		<i>Quaranjavirus</i>	<i>Johnston Atoll quaranjavirus</i>	Rename species (previous name: <i>Johnston Atoll virus</i>)	[54]
Unassigned	<i>Orthomyxoviridae</i>		<i>Quaranjavirus</i>	<i>Quaranfil quaranjavirus</i>	Rename species (previous name: <i>Quaranfil virus</i>)	[54]
Unassigned	<i>Orthomyxoviridae</i>		<i>Thogotovirus</i>	<i>Dhori thogotovirus</i>	Rename species (previous name: <i>Dhori virus</i>)	[54]

Table 2 (continued)

Order	Family	Subfamily (blank = unassigned)	Genus	Species	Taxonomic change	References
Unassigned	<i>Orthomyxoviridae</i>		<i>Thogotivirus</i>	<i>Thogoto thogotivirus</i>	Rename species (previous name: <i>Thogoto virus</i>)	[54]
<i>Mononegavirales</i>	<i>Rhabdoviridae</i>		<i>Lyssavirus</i>	<i>Gannoruwa bat lyssavirus</i>	New species	[55]
<i>Mononegavirales</i>	<i>Rhabdoviridae</i>		<i>Lyssavirus</i>	<i>Ileida bat lyssavirus</i>	New species	[56]
Unassigned	<i>Arenaviridae</i>		<i>Reptarenavirus</i>	<i>Golden reptarenavirus</i>	Rename species (previous name: <i>Alethinophid 1 reptarenavirus</i>)	[57]
Unassigned	<i>Arenaviridae</i>		<i>Reptarenavirus</i>	<i>California reptarenavirus</i>	Rename species (previous name: <i>Alethinophid 2 reptarenavirus</i>)	[57]
Unassigned	<i>Arenaviridae</i>		<i>Reptarenavirus</i>	<i>Rotterdam reptarenavirus</i>	Rename species (previous name: <i>Alethinophid 3 reptarenavirus</i>)	[57]
Unassigned	<i>Arenaviridae</i>		<i>Reptarenavirus</i>	<i>Ordinary reptarenavirus</i>	New species	[57]
Unassigned	<i>Arenaviridae</i>		<i>Reptarenavirus</i>	<i>Giessen reptarenavirus</i>	New species	[57]
Unassigned	<i>Reoviridae</i>	<i>Spinareovirinae</i>	<i>Orthoreovirus</i>	<i>Mahlapitsi orthoreovirus</i>	New species	[58]
<i>Mononegavirales</i>	<i>Rhabdoviridae</i>		<i>Tibrovirus</i>	<i>Beatrice Hill tibrovirus</i>	New species	[59]
Unassigned	<i>Potyviridae</i>		<i>Roymovirus</i>		New genus	[60]
Unassigned	<i>Potyviridae</i>		<i>Roymovirus</i>	<i>Rose yellow mosaic virus</i>	Species assigned as type species of new genus	[60]
Unassigned	<i>Potyviridae</i>		<i>Bevemovirus</i>		New genus	[60]
Unassigned	<i>Potyviridae</i>		<i>Bevemovirus</i>	<i>Bellflower veinal mottle virus</i>	New (type) species	[60]
Unassigned	<i>Aspiviridae</i>				Rename family (previous name: <i>Ophioviridae</i>)	[61]
Unassigned	<i>Aspiviridae</i>		<i>Ophiovirus</i>	<i>Blueberry mosaic associated ophiovirus</i>	Rename species (previous name: <i>Blueberry mosaic associated virus</i>)	[61]
Unassigned	<i>Aspiviridae</i>		<i>Ophiovirus</i>	<i>Citrus psorosis ophiovirus</i>	Rename species (previous name: <i>Citrus psorosis virus</i>)	[61]
Unassigned	<i>Aspiviridae</i>		<i>Ophiovirus</i>	<i>Freesia sneak ophiovirus</i>	Rename species (previous name: <i>Freesia sneak virus</i>)	[61]
Unassigned	<i>Aspiviridae</i>		<i>Ophiovirus</i>	<i>Lettuce ring necrosis ophiovirus</i>	Rename species (previous name: <i>Lettuce ring necrosis virus</i>)	[61]
Unassigned	<i>Aspiviridae</i>		<i>Ophiovirus</i>	<i>Mirafiori lettuce big-vein ophiovirus</i>	Rename species (previous name: <i>Mirafiori lettuce big-vein virus</i>)	[61]
Unassigned	<i>Aspiviridae</i>		<i>Ophiovirus</i>	<i>Ranunculus white mottle ophiovirus</i>	Rename species (previous name: <i>Ranunculus white mottle virus</i>)	[61]
Unassigned	<i>Aspiviridae</i>		<i>Ophiovirus</i>	<i>Tulip mild mottle mosaic ophiovirus</i>	Rename species (previous name: <i>Tulip mild mottle mosaic virus</i>)	[61]
Unassigned	<i>Solemoviridae</i>				New family	[62]
Unassigned	<i>Solemoviridae</i>		<i>Sobemovirus</i>		Assign genus (and constituent species) to new family	[62]
Unassigned	<i>Solemoviridae</i>		<i>Polemovirus</i>		Assign genus (and constituent species) to new family	[62]
Unassigned	<i>Alphasatellitidae</i>				New family	[63]
Unassigned	<i>Alphasatellitidae</i>	<i>Geminialphasatellitinae</i>			New subfamily	[63]
Unassigned	<i>Alphasatellitidae</i>	<i>Geminialphasatellitinae Ageyesisatellite</i>			New genus	[63]

Table 2 (continued)

Order	Family	Subfamily (blank = unassigned)	Genus	Species	Taxonomic change	References
Unassigned	<i>Alphasatellitidae</i>	<i>Geminialphasatellitinae</i>	<i>Ageyesisatellite</i>	<i>Ageratum yellow vein Singapore alphasatellite</i>	New (type) species	[63]
Unassigned	<i>Alphasatellitidae</i>	<i>Geminialphasatellitinae</i>	<i>Ageyesisatellite</i>	<i>Cotton leaf curl Saudi Arabia alphasatellite</i>	New species	[63]
Unassigned	<i>Alphasatellitidae</i>	<i>Geminialphasatellitinae</i>	<i>Clecrusatellite</i>		New genus	[63]
Unassigned	<i>Alphasatellitidae</i>	<i>Geminialphasatellitinae</i>	<i>Clecrusatellite</i>	<i>Cleome leaf crumple alphasatellite</i>	New (type) species	[63]
Unassigned	<i>Alphasatellitidae</i>	<i>Geminialphasatellitinae</i>	<i>Clecrusatellite</i>	<i>Croton yellow vein mosaic alphasatellite</i>	New species	[63]
Unassigned	<i>Alphasatellitidae</i>	<i>Geminialphasatellitinae</i>	<i>Clecrusatellite</i>	<i>Euphorbia yellow mosaic alphasatellite</i>	New species	[63]
Unassigned	<i>Alphasatellitidae</i>	<i>Geminialphasatellitinae</i>	<i>Clecrusatellite</i>	<i>Tomato yellow spot alphasatellite</i>	New species	[63]
Unassigned	<i>Alphasatellitidae</i>	<i>Geminialphasatellitinae</i>	<i>Clecrusatellite</i>	<i>Melon chlorotic mosaic alphasatellite</i>	New species	[63]
Unassigned	<i>Alphasatellitidae</i>	<i>Geminialphasatellitinae</i>	<i>Clecrusatellite</i>	<i>Sida Cuba alphasatellite</i>	New species	[63]
Unassigned	<i>Alphasatellitidae</i>	<i>Geminialphasatellitinae</i>	<i>Clecrusatellite</i>	<i>Whitefly associated Guatemala alphasatellite 2</i>	New species	[63]
Unassigned	<i>Alphasatellitidae</i>	<i>Geminialphasatellitinae</i>	<i>Clecrusatellite</i>	<i>Whitefly associated Puerto Rico alphasatellite 1</i>	New species	[63]
Unassigned	<i>Alphasatellitidae</i>	<i>Geminialphasatellitinae</i>	<i>Colecusatellite</i>		New genus	[63]
Unassigned	<i>Alphasatellitidae</i>	<i>Geminialphasatellitinae</i>	<i>Colecusatellite</i>	<i>Ageratum enation alphasatellite</i>	New species	[63]
Unassigned	<i>Alphasatellitidae</i>	<i>Geminialphasatellitinae</i>	<i>Colecusatellite</i>	<i>Ageratum yellow vein alphasatellite</i>	New species	[63]
Unassigned	<i>Alphasatellitidae</i>	<i>Geminialphasatellitinae</i>	<i>Colecusatellite</i>	<i>Ageratum yellow vein China alphasatellite</i>	New species	[63]
Unassigned	<i>Alphasatellitidae</i>	<i>Geminialphasatellitinae</i>	<i>Colecusatellite</i>	<i>Ageratum yellow vein India alphasatellite</i>	New species	[63]
Unassigned	<i>Alphasatellitidae</i>	<i>Geminialphasatellitinae</i>	<i>Colecusatellite</i>	<i>Bhendi yellow vein alphasatellite</i>	New species	[63]
Unassigned	<i>Alphasatellitidae</i>	<i>Geminialphasatellitinae</i>	<i>Colecusatellite</i>	<i>Cassava mosaic Madagascar alphasatellite</i>	New species	[63]
Unassigned	<i>Alphasatellitidae</i>	<i>Geminialphasatellitinae</i>	<i>Colecusatellite</i>	<i>Chilli leaf curl alphasatellite</i>	New species	[63]
Unassigned	<i>Alphasatellitidae</i>	<i>Geminialphasatellitinae</i>	<i>Colecusatellite</i>	<i>Cotton leaf curl Egypt alphasatellite</i>	New species	[63]
Unassigned	<i>Alphasatellitidae</i>	<i>Geminialphasatellitinae</i>	<i>Colecusatellite</i>	<i>Cotton leaf curl Gezira alphasatellite</i>	New species	[63]
Unassigned	<i>Alphasatellitidae</i>	<i>Geminialphasatellitinae</i>	<i>Colecusatellite</i>	<i>Cotton leaf curl Multan alphasatellite</i>	New (type) species	[63]
Unassigned	<i>Alphasatellitidae</i>	<i>Geminialphasatellitinae</i>	<i>Colecusatellite</i>	<i>Cotton leaf curl Lucknow alphasatellite</i>	New species	[63]
Unassigned	<i>Alphasatellitidae</i>	<i>Geminialphasatellitinae</i>	<i>Colecusatellite</i>	<i>Gossypium darwinii symptomless alphasatellite</i>	New species	[63]
Unassigned	<i>Alphasatellitidae</i>	<i>Geminialphasatellitinae</i>	<i>Colecusatellite</i>	<i>Malvastrum yellow mosaic Cameroon alphasatellite</i>	New species	[63]
Unassigned	<i>Alphasatellitidae</i>	<i>Geminialphasatellitinae</i>	<i>Colecusatellite</i>	<i>Malvastrum yellow mosaic alphasatellite</i>	New species	[63]
Unassigned	<i>Alphasatellitidae</i>	<i>Geminialphasatellitinae</i>	<i>Colecusatellite</i>	<i>Pedilanthus leaf curl alphasatellite</i>	New species	[63]
Unassigned	<i>Alphasatellitidae</i>	<i>Geminialphasatellitinae</i>	<i>Colecusatellite</i>	<i>Sida leaf curl alphasatellite</i>	New species	[63]
Unassigned	<i>Alphasatellitidae</i>	<i>Geminialphasatellitinae</i>	<i>Colecusatellite</i>	<i>Sida yellow vein Vietnam alphasatellite</i>	New species	[63]
Unassigned	<i>Alphasatellitidae</i>	<i>Geminialphasatellitinae</i>	<i>Colecusatellite</i>	<i>Sunflower leaf curl Karnataka alphasatellite</i>	New species	[63]
Unassigned	<i>Alphasatellitidae</i>	<i>Geminialphasatellitinae</i>	<i>Colecusatellite</i>	<i>Synedrella leaf curl alphasatellite</i>	New species	[63]
Unassigned	<i>Alphasatellitidae</i>	<i>Geminialphasatellitinae</i>	<i>Colecusatellite</i>	<i>Tobacco curly shoot alphasatellite</i>	New species	[63]
Unassigned	<i>Alphasatellitidae</i>	<i>Geminialphasatellitinae</i>	<i>Colecusatellite</i>	<i>Tomato leaf curl Buea alphasatellite</i>	New species	[63]
Unassigned	<i>Alphasatellitidae</i>	<i>Geminialphasatellitinae</i>	<i>Colecusatellite</i>	<i>Tomato leaf curl Cameroon alphasatellite</i>	New species	[63]
Unassigned	<i>Alphasatellitidae</i>	<i>Geminialphasatellitinae</i>	<i>Colecusatellite</i>	<i>Tomato yellow leaf curl Thailand alphasatellite</i>	New species	[63]
Unassigned	<i>Alphasatellitidae</i>	<i>Geminialphasatellitinae</i>	<i>Colecusatellite</i>	<i>Tomato yellow leaf curl China alphasatellite</i>	New species	[63]
Unassigned	<i>Alphasatellitidae</i>	<i>Geminialphasatellitinae</i>	<i>Colecusatellite</i>	<i>Tomato yellow leaf curl Yunnan alphasatellite</i>	New species	[63]
Unassigned	<i>Alphasatellitidae</i>	<i>Geminialphasatellitinae</i>	<i>Gosmusatellite</i>		New genus	[63]
Unassigned	<i>Alphasatellitidae</i>	<i>Geminialphasatellitinae</i>	<i>Gosmusatellite</i>	<i>Gossypium mustelinum symptomless alphasatellite</i>	New (type) species	[63]

Table 2 (continued)

Order	Family	Subfamily (blank = unassigned)	Genus	Species	Taxonomic change	References
Unassigned	<i>Alphasatellitidae</i>	<i>Geminialphasatellitinae</i>	<i>Gosmusatellite</i>	<i>Hollyhock yellow vein alphasatellite</i>	New species	[63]
Unassigned	<i>Alphasatellitidae</i>	<i>Geminialphasatellitinae</i>	<i>Gosmusatellite</i>	<i>Mesta yellow vein mosaic alphasatellite</i>	New species	[63]
Unassigned	<i>Alphasatellitidae</i>	<i>Geminialphasatellitinae</i>	<i>Gosmusatellite</i>	<i>Okra enation leaf curl alphasatellite</i>	New species	[63]
Unassigned	<i>Alphasatellitidae</i>	<i>Geminialphasatellitinae</i>	<i>Gosmusatellite</i>	<i>Okra yellow crinkle Cameroon alphasatellite</i>	New species	[63]
Unassigned	<i>Alphasatellitidae</i>	<i>Geminialphasatellitinae</i>	<i>Gosmusatellite</i>	<i>Vernonia yellow vein Fujian alphasatellite</i>	New species	[63]
Unassigned	<i>Alphasatellitidae</i>	<i>Geminialphasatellitinae</i>	<i>Unassigned</i>	<i>Whitefly associated Guetamala alphasatellite 1</i>	New species	[63]
Unassigned	<i>Alphasatellitidae</i>	<i>Geminialphasatellitinae</i>	<i>Unassigned</i>	<i>Dragonfly associated alphasatellite</i>	New species	[63]
Unassigned	<i>Alphasatellitidae</i>	<i>Nanoalphasatellitinae</i>			New subfamily	[63]
Unassigned	<i>Alphasatellitidae</i>	<i>Nanoalphasatellitinae</i>	<i>Babusatellite</i>		New genus	[63]
Unassigned	<i>Alphasatellitidae</i>	<i>Nanoalphasatellitinae</i>	<i>Babusatellite</i>	<i>Banana bunchy top alphasatellite 3</i>	New species	[63]
Unassigned	<i>Alphasatellitidae</i>	<i>Nanoalphasatellitinae</i>	<i>Babusatellite</i>	<i>Banana bunchy top alphasatellite 1</i>	New (type) species	[63]
Unassigned	<i>Alphasatellitidae</i>	<i>Nanoalphasatellitinae</i>	<i>Babusatellite</i>	<i>Banana bunchy top alphasatellite 2</i>	New species	[63]
Unassigned	<i>Alphasatellitidae</i>	<i>Nanoalphasatellitinae</i>	<i>Babusatellite</i>	<i>Cardamom bushy dwarf alphasatellite</i>	New species	[63]
Unassigned	<i>Alphasatellitidae</i>	<i>Nanoalphasatellitinae</i>	<i>Fabenesatellite</i>		New genus	
Unassigned	<i>Alphasatellitidae</i>	<i>Nanoalphasatellitinae</i>	<i>Fabenesatellite</i>	<i>Faba bean necrotic yellows alphasatellite 2</i>	New (type) species	[63]
Unassigned	<i>Alphasatellitidae</i>	<i>Nanoalphasatellitinae</i>	<i>Milvetsatellite</i>		New genus	[63]
Unassigned	<i>Alphasatellitidae</i>	<i>Nanoalphasatellitinae</i>	<i>Milvetsatellite</i>	<i>Milk vetch dwarf alphasatellite 3</i>	New (type) species	[63]
Unassigned	<i>Alphasatellitidae</i>	<i>Nanoalphasatellitinae</i>	<i>Clostunsatellite</i>		New genus	[63]
Unassigned	<i>Alphasatellitidae</i>	<i>Nanoalphasatellitinae</i>	<i>Clostunsatellite</i>	<i>Milk vetch dwarf alphasatellite 2</i>	New species	[63]
Unassigned	<i>Alphasatellitidae</i>	<i>Nanoalphasatellitinae</i>	<i>Clostunsatellite</i>	<i>Pea necrotic yellow dwarf alphasatellite 2</i>	New species	[63]
Unassigned	<i>Alphasatellitidae</i>	<i>Nanoalphasatellitinae</i>	<i>Clostunsatellite</i>	<i>Sophora yellow stunt alphasatellite 5</i>	New species	[63]
Unassigned	<i>Alphasatellitidae</i>	<i>Nanoalphasatellitinae</i>	<i>Clostunsatellite</i>	<i>Sophora yellow stunt alphasatellite 4</i>	New species	[63]
Unassigned	<i>Alphasatellitidae</i>	<i>Nanoalphasatellitinae</i>	<i>Clostunsatellite</i>	<i>Subterranean clover stunt alphasatellite 2</i>	New (type) species	[63]
Unassigned	<i>Alphasatellitidae</i>	<i>Nanoalphasatellitinae</i>	<i>Mivedwarsatellite</i>		New genus	[63]
Unassigned	<i>Alphasatellitidae</i>	<i>Nanoalphasatellitinae</i>	<i>Mivedwarsatellite</i>	<i>Milk vetch dwarf alphasatellite 1</i>	New (type) species	[63]
Unassigned	<i>Alphasatellitidae</i>	<i>Nanoalphasatellitinae</i>	<i>Mivedwarsatellite</i>	<i>Pea necrotic yellow dwarf alphasatellite 1</i>	New species	[63]
Unassigned	<i>Alphasatellitidae</i>	<i>Nanoalphasatellitinae</i>	<i>Mivedwarsatellite</i>	<i>Sophora yellow stunt alphasatellite 2</i>	New species	[63]
Unassigned	<i>Alphasatellitidae</i>	<i>Nanoalphasatellitinae</i>	<i>Mivedwarsatellite</i>	<i>Faba bean necrotic stunt alphasatellite</i>	New species	[63]
Unassigned	<i>Alphasatellitidae</i>	<i>Nanoalphasatellitinae</i>	<i>Subclovsatellite</i>	<i>Faba bean necrotic yellows alphasatellite 1</i>	New species	[63]
Unassigned	<i>Alphasatellitidae</i>	<i>Nanoalphasatellitinae</i>	<i>Subclovsatellite</i>		New genus	[63]
Unassigned	<i>Alphasatellitidae</i>	<i>Nanoalphasatellitinae</i>	<i>Subclovsatellite</i>	<i>Sophora yellow stunt alphasatellite 1</i>	New species	[63]
Unassigned	<i>Alphasatellitidae</i>	<i>Nanoalphasatellitinae</i>	<i>Subclovsatellite</i>	<i>Subterranean clover stunt alphasatellite 1</i>	New (type) species	[63]
Unassigned	<i>Alphasatellitidae</i>	<i>Nanoalphasatellitinae</i>	<i>Sophoyesatellite</i>		New genus	[63]
Unassigned	<i>Alphasatellitidae</i>	<i>Nanoalphasatellitinae</i>	<i>Sophoyesatellite</i>	<i>Sophora yellow stunt alphasatellite 3</i>	New (type) species	[66]
Unassigned	<i>Alphasatellitidae</i>		<i>Unassigned</i>	<i>Coconut foliar decay alphasatellite</i>	New species	[63]
Picornavirales	<i>Secoviridae</i>	<i>Comovirinae</i>	<i>Fabavirus</i>	<i>Grapevine fabavirus</i>	New species	[64]
Picornavirales	<i>Secoviridae</i>	<i>Comovirinae</i>	<i>Fabavirus</i>	<i>Prunus virus F</i>	New species	[64]
Picornavirales	<i>Secoviridae</i>	<i>Comovirinae</i>	<i>Nepovirus</i>	<i>Potato virus B</i>	New species	[64]
Picornavirales	<i>Secoviridae</i>	<i>Comovirinae</i>	<i>Nepovirus</i>	<i>Soybean latent spherical virus</i>	New species	[64]

Table 2 (continued)

Order	Family	Subfamily (blank = unassigned)	Genus	Species	Taxonomic change	References
<i>Picornavirales</i>	<i>Secoviridae</i>		<i>unassigned</i>	<i>Dioscorea mosaic associated virus</i>	New species	[64]
Unassigned	<i>Potyviridae</i>		<i>Ipomovirus</i>	<i>Coccinia mottle virus</i>	New species	[65]
Unassigned	<i>Potyviridae</i>		<i>Potyvirus</i>	<i>Barbacena virus Y</i>	New species	[65]
Unassigned	<i>Potyviridae</i>		<i>Potyvirus</i>	<i>Callistephus mottle virus</i>	New species	[65]
Unassigned	<i>Potyviridae</i>		<i>Potyvirus</i>	<i>Daphne virus Y</i>	New species	[65]
Unassigned	<i>Potyviridae</i>		<i>Potyvirus</i>	<i>Impatiens flower break virus</i>	New species	[65]
Unassigned	<i>Potyviridae</i>		<i>Potyvirus</i>	<i>Pecan mosaic-associated virus</i>	New species	[65]
Unassigned	<i>Potyviridae</i>		<i>Potyvirus</i>	<i>Sunflower ring blotch virus</i>	New species	[65]
Unassigned	<i>Potyviridae</i>		<i>Potyvirus</i>	<i>Tobacco mosqueado virus</i>	New species	[65]
Unassigned	<i>Potyviridae</i>		<i>Potyvirus</i>	<i>Wild onion symptomless virus</i>	New species	[65]
Unassigned	<i>Geminiviridae</i>		<i>Mastrevirus</i>	<i>Chickpea yellow dwarf virus</i>	New species	[66]
Unassigned	<i>Geminiviridae</i>		<i>Mastrevirus</i>	<i>Dragonfly-associated mastrevirus</i>	New species	[66]
Unassigned	<i>Geminiviridae</i>		<i>Mastrevirus</i>	<i>Sugarcane striate virus</i>	New species	[66]
Unassigned	<i>Geminiviridae</i>		<i>Mastrevirus</i>	<i>Sweet potato symptomless virus 1</i>	New species	[66]
Unassigned	<i>Geminiviridae</i>		<i>Mastrevirus</i>	<i>Sugarcane chlorotic streak virus</i>	New species	[66]
Unassigned	<i>Geminiviridae</i>		<i>Turncurtovirus</i>	<i>Turnip leaf roll virus</i>	New species	[67]
Unassigned	<i>Geminiviridae</i>		<i>Begomovirus</i>	<i>Allamanda leaf mottle distortion virus</i>	New species	[68]
Unassigned	<i>Geminiviridae</i>		<i>Begomovirus</i>	<i>Andrographis yellow vein leaf curl virus</i>	New species	[68]
Unassigned	<i>Geminiviridae</i>		<i>Begomovirus</i>	<i>Asystasia mosaic Madagascar virus</i>	New species	[68]
Unassigned	<i>Geminiviridae</i>		<i>Begomovirus</i>	<i>Bean white chlorosis mosaic virus</i>	New species	[68]
Unassigned	<i>Geminiviridae</i>		<i>Begomovirus</i>	<i>Cnidoscolus mosaic leaf deformation virus</i>	New species	[68]
Unassigned	<i>Geminiviridae</i>		<i>Begomovirus</i>	<i>Coccinia mosaic Tamil Nadu virus</i>	New species	[68]
Unassigned	<i>Geminiviridae</i>		<i>Begomovirus</i>	<i>Common bean mottle virus</i>	New species	[68]
Unassigned	<i>Geminiviridae</i>		<i>Begomovirus</i>	<i>Common bean severe mosaic virus</i>	New species	[68]
Unassigned	<i>Geminiviridae</i>		<i>Begomovirus</i>	<i>Cotton leaf curl Barasat virus</i>	New species	[68]
Unassigned	<i>Geminiviridae</i>		<i>Begomovirus</i>	<i>Cotton yellow mosaic virus</i>	New species	[68]
Unassigned	<i>Geminiviridae</i>		<i>Begomovirus</i>	<i>Deinbollia mosaic virus</i>	New species	[68]
Unassigned	<i>Geminiviridae</i>		<i>Begomovirus</i>	<i>Desmodium mottle virus</i>	New species	[68]
Unassigned	<i>Geminiviridae</i>		<i>Begomovirus</i>	<i>Duranta leaf curl virus</i>	New species	[68]
Unassigned	<i>Geminiviridae</i>		<i>Begomovirus</i>	<i>Euphorbia mosaic Peru virus</i>	New species	[68]
Unassigned	<i>Geminiviridae</i>		<i>Begomovirus</i>	<i>Euphorbia yellow leaf curl virus</i>	New species	[68]
Unassigned	<i>Geminiviridae</i>		<i>Begomovirus</i>	<i>Hollyhock yellow vein mosaic virus</i>	New species	[68]
Unassigned	<i>Geminiviridae</i>		<i>Begomovirus</i>	<i>Jacquemontia yellow mosaic virus</i>	New species	[68]
Unassigned	<i>Geminiviridae</i>		<i>Begomovirus</i>	<i>Jatropha leaf curl Gujarat virus</i>	New species	[68]
Unassigned	<i>Geminiviridae</i>		<i>Begomovirus</i>	<i>Jatropha leaf yellow mosaic virus</i>	New species	[71]
Unassigned	<i>Geminiviridae</i>		<i>Begomovirus</i>	<i>Lisianthus enation leaf curl virus</i>	New species	[68]
Unassigned	<i>Geminiviridae</i>		<i>Begomovirus</i>	<i>Lycianthes yellow mosaic virus</i>	New species	[68]
Unassigned	<i>Geminiviridae</i>		<i>Begomovirus</i>	<i>Macropstilium bright mosaic virus</i>	New species	[68]
Unassigned	<i>Geminiviridae</i>		<i>Begomovirus</i>	<i>Macropstilium common mosaic virus</i>	New species	[68]

Table 2 (continued)

Order	Family	Subfamily (blank = unassigned)	Genus	Species	Taxonomic change	References
Unassigned	Geminiviridae		Begomovirus	<i>Malvastrum bright yellow mosaic virus</i>	New species	[68]
Unassigned	Geminiviridae		Begomovirus	<i>Malvastrum yellow vein Cambodia virus</i>	New species	[68]
Unassigned	Geminiviridae		Begomovirus	<i>Melochia mosaic virus</i>	New species	[68]
Unassigned	Geminiviridae		Begomovirus	<i>Melochia yellow mosaic virus</i>	New species	[68]
Unassigned	Geminiviridae		Begomovirus	<i>Mirabilis leaf curl virus</i>	New species	[68]
Unassigned	Geminiviridae		Begomovirus	<i>Okra leaf curl Oman virus</i>	New species	[68]
Unassigned	Geminiviridae		Begomovirus	<i>Oxalis yellow vein virus</i>	New species	[68]
Unassigned	Geminiviridae		Begomovirus	<i>Passionfruit leaf distortion virus</i>	New species	[68]
Unassigned	Geminiviridae		Begomovirus	<i>Pavonia mosaic virus</i>	New species	[68]
Unassigned	Geminiviridae		Begomovirus	<i>Pavonia yellow mosaic virus</i>	New species	[68]
Unassigned	Geminiviridae		Begomovirus	<i>Pea leaf distortion virus</i>	New species	[68]
Unassigned	Geminiviridae		Begomovirus	<i>Pepper yellow leaf curl Thailand virus</i>	New species	[68]
Unassigned	Geminiviridae		Begomovirus	<i>Ramie mosaic Yunnan virus</i>	New species	[68]
Unassigned	Geminiviridae		Begomovirus	<i>Senna leaf curl virus</i>	New species	[68]
Unassigned	Geminiviridae		Begomovirus	<i>Sida angular mosaic virus</i>	New species	[68]
Unassigned	Geminiviridae		Begomovirus	<i>Sida bright yellow mosaic virus</i>	New species	[68]
Unassigned	Geminiviridae		Begomovirus	<i>Sida chlorotic mottle virus</i>	New species	[68]
Unassigned	Geminiviridae		Begomovirus	<i>Sida chlorotic vein virus</i>	New species	[68]
Unassigned	Geminiviridae		Begomovirus	<i>Sida golden yellow spot virus</i>	New species	[68]
Unassigned	Geminiviridae		Begomovirus	<i>Solanum mosaic Bolivia virus</i>	New species	[68]
Unassigned	Geminiviridae		Begomovirus	<i>Sweet potato golden vein Korea virus</i>	New species	[68]
Unassigned	Geminiviridae		Begomovirus	<i>Sweet potato leaf curl Guangxi virus</i>	New species	[68]
Unassigned	Geminiviridae		Begomovirus	<i>Synedrella yellow vein clearing virus</i>	New species	[68]
Unassigned	Geminiviridae		Begomovirus	<i>Telfairia golden mosaic virus</i>	New species	[68]
Unassigned	Geminiviridae		Begomovirus	<i>Tomato chlorotic mottle Guyane virus</i>	New species	[68]
Unassigned	Geminiviridae		Begomovirus	<i>Tomato enation leaf curl virus</i>	New species	[68]
Unassigned	Geminiviridae		Begomovirus	<i>Tomato golden leaf spot virus</i>	New species	[68]
Unassigned	Geminiviridae		Begomovirus	<i>Tomato latent virus</i>	New species	[68]
Unassigned	Geminiviridae		Begomovirus	<i>Tomato leaf curl Burkina Faso virus</i>	New species	[68]
Unassigned	Geminiviridae		Begomovirus	<i>Tomato mottle wrinkle virus</i>	New species	[68]
Unassigned	Geminiviridae		Begomovirus	<i>Tomato yellow leaf curl Shuangbai virus</i>	New species	[68]
Unassigned	Geminiviridae		Begomovirus	<i>Tomato yellow leaf curl Yunnan virus</i>	New species	[68]
Unassigned	Geminiviridae		Begomovirus	<i>Triumfetta yellow mosaic virus</i>	New species	[68]
Unassigned	Geminiviridae		Begomovirus	<i>Velvet bean golden mosaic virus</i>	New species	[68]
Unassigned	Geminiviridae		Begomovirus	<i>Whitefly-associated begomovirus 1</i>	New species	[68]
Unassigned	Geminiviridae		Begomovirus	<i>Whitefly-associated begomovirus 2</i>	New species	[68]
Unassigned	Geminiviridae		Begomovirus	<i>Whitefly-associated begomovirus 3</i>	New species	[68]
Unassigned	Geminiviridae		Begomovirus	<i>Whitefly-associated begomovirus 4</i>	New species	[68]
Unassigned	Geminiviridae		Begomovirus	<i>Whitefly-associated begomovirus 6</i>	New species	[68]

Table 2 (continued)

Order	Family	Subfamily (blank = unassigned)	Genus	Species	Taxonomic change	References
Unassigned	Geminiviridae		Begomovirus	<i>Whitefly-associated begomovirus 7</i>	New species	[68]
Unassigned	Geminiviridae		Begomovirus	<i>Vernonia crinkle virus</i>	New species	[68]
Unassigned	Geminiviridae		Begomovirus	<i>Vinca leaf curl virus</i>	New species	[68]
Unassigned	Geminiviridae		Begomovirus	<i>Wissadula yellow mosaic virus</i>	New species	[68]
Unassigned	Geminiviridae		Begomovirus	<i>Pedilanthus leaf curl virus</i>	Rename species (previous name: <i>Pedilanthus leaf curl virus</i>)	[69]
Unassigned	Tolecusatellitidae		Betasatellite	<i>Tomato leaf curl Java betasatellite</i>	Rename species (previous name: <i>Tomato leaf curl Java virus betasatellite</i>)	[69]
Unassigned	Geminiviridae		Mastrevirus	<i>Sporobolus striate mosaic virus 1</i>	Rename species (previous name: <i>Sporobolus striate mosaic virus 1</i>)	[69]
Unassigned	Geminiviridae		Mastrevirus	<i>Sporobolus striate mosaic virus 2</i>	Rename species (previous name: <i>Sporobolus striate mosaic virus 2</i>)	[69]
Unassigned	Endornaviridae		Alphaendornavirus	<i>Winged bean alphaendornavirus 1</i>	New species	[70]
Unassigned	Endornaviridae		Betaendornavirus	<i>Botrytis cinerea betaendornavirus 1</i>	New species	[70]
Unassigned	Bromoviridae		Ilarvirus	<i>Ageratum latent virus</i>	New species	[71]
Unassigned	Bromoviridae		Ilarvirus	<i>Privet ringspot virus</i>	New species	[71]
Unassigned	Bromoviridae		Ilarvirus	<i>Tomato necrotic streak virus</i>	New species	[71]
Unassigned	Luteoviridae		Polerovirus	<i>Maize yellow mosaic virus</i>	New species	[72]
Unassigned	Luteoviridae		Polerovirus	<i>Pepo aphid-borne yellows virus</i>	New species	[73]
Unassigned	Caulimoviridae		Badnavirus	<i>Cacao mild mosaic virus</i>	New species	[74]
Unassigned	Caulimoviridae		Badnavirus	<i>Cacao yellow vein banding virus</i>	New species	[74]
Unassigned	Caulimoviridae		Badnavirus	<i>Dioscorea bacilliform RT virus 1</i>	New species	[74]
Unassigned	Caulimoviridae		Badnavirus	<i>Dioscorea bacilliform RT virus 2</i>	New species	[74]
Unassigned	Caulimoviridae		Badnavirus	<i>Dioscorea bacilliform TR virus</i>	New species	[74]
Unassigned	Caulimoviridae		Badnavirus	<i>Wisteria badnavirus 1</i>	New species	[74]
Unassigned	Closteroviridae		Ampelovirus	<i>Grapevine leafroll-associated virus 13</i>	New species	[75]
Tymovirales	Tymoviridae		Marafivirus	<i>Grapevine asteroid mosaic associated virus</i>	New species	[76]
Tymovirales	Tymoviridae		Marafivirus	<i>Peach marafivirus D</i>	New species	[76]
Tymovirales	Deltaflexiviridae		Deltaflexivirus		New family	[77]
Tymovirales	Deltaflexiviridae		Deltaflexivirus		New genus	[77]
Tymovirales	Deltaflexiviridae		Deltaflexivirus	<i>Sclerotinia deltaflexivirus 1</i>	New (type) species	[77]
Tymovirales	Deltaflexiviridae		Deltaflexivirus	<i>Soybean-associated deltaflexivirus 1</i>	New species	[77]
Tymovirales	Deltaflexiviridae		Deltaflexivirus	<i>Fusarium deltaflexivirus 1</i>	New species	[77]
Tymovirales	Alphaflexiviridae		Potexvirus	<i>Actinidia virus X</i>	New species	[78]
Tymovirales	Alphaflexiviridae		Potexvirus	<i>Pitaya virus X</i>	New species	[78]
Tymovirales	Alphaflexiviridae		Potexvirus	<i>Vanilla virus X</i>	New species	[78]
Tymovirales	Alphaflexiviridae		Allexivirus	<i>Blackberry virus E</i>	Move species (previous position: Tymovirales/Alphaflexiviridae/unassigned)	[78]
Tymovirales	Alphaflexiviridae		Allexivirus	<i>Arachis pintoi virus</i>	New species	[78]
Tymovirales	Alphaflexiviridae		Allexivirus	<i>Alfalfa virus S</i>	New species	[78]

Table 2 (continued)

Order	Family	Subfamily (blank = unassigned)	Genus	Species	Taxonomic change	References
Tymovirales	Alphaflexiviridae		Alllexivirus	<i>Vanilla latent virus</i>	New species	[78]
Tymovirales	Betaflexiviridae	Quinvirinae	Carlavirus	<i>Yam latent virus</i>	New species	[78]
Tymovirales	Betaflexiviridae	Quinvirinae	Carlavirus	<i>Sambucus virus C</i>	New species	[78]
Tymovirales	Betaflexiviridae	Quinvirinae	Carlavirus	<i>Sambucus virus D</i>	New species	[78]
Tymovirales	Betaflexiviridae	Quinvirinae	Carlavirus	<i>Sambucus virus E</i>	New species	[78]
Tymovirales	Betaflexiviridae	Quinvirinae	Carlavirus	<i>Atractyloides mottle virus</i>	New species	[78]
Tymovirales	Betaflexiviridae	Quinvirinae	Carlavirus	<i>Ligustrum virus A</i>	New species	[78]
Tymovirales	Betaflexiviridae	Quinvirinae	Foveavirus	<i>Asian prunus virus 2</i>	New species	[78]
Tymovirales	Betaflexiviridae	Trivirinae	Vitivirus	<i>Arracacha virus V</i>	New species	[78]
Picornavirales	Picornaviridae		Aalivirus		New genus	[79]
Picornavirales	Picornaviridae		Aalivirus	<i>Aalivirus A</i>	New (type) species	[79]
Picornavirales	Picornaviridae		Bopivirus		New genus	[80]
Picornavirales	Picornaviridae		Bopivirus	<i>Bopivirus A</i>	New (type) species	[80]
Picornavirales	Picornaviridae		Crohivirus		New genus	[81]
Picornavirales	Picornaviridae		Crohivirus	<i>Crohivirus A</i>	New species	[81]
Picornavirales	Picornaviridae		Crohivirus	<i>Crohivirus B</i>	New (type) species	[81]
Picornavirales	Picornaviridae		Enterovirus	<i>Enterovirus K</i>	New species	[82]
Picornavirales	Picornaviridae		Enterovirus	<i>Enterovirus L</i>	New species	[82]
Picornavirales	Picornaviridae		Kunsagivirus	<i>Kunsagivirus B</i>	New species	[83]
Picornavirales	Picornaviridae		Kunsagivirus	<i>Kunsagivirus C</i>	New species	[83]
Picornavirales	Picornaviridae		Megrivirus	<i>Megrivirus A</i>	Rename (type) species (previous name: <i>Melegivirus A</i>)	[84]
Picornavirales	Picornaviridae		Megrivirus	<i>Megrivirus B</i>	New species	[84]
Picornavirales	Picornaviridae		Megrivirus	<i>Megrivirus C</i>	New species	[84]
Picornavirales	Picornaviridae		Megrivirus	<i>Megrivirus D</i>	New species	[84]
Picornavirales	Picornaviridae		Megrivirus	<i>Megrivirus E</i>	New species	[84]
Picornavirales	Picornaviridae		Orivirus		New genus	[85]
Picornavirales	Picornaviridae		Orivirus	<i>Orivirus A</i>	New (type) species	[85]
Picornavirales	Picornaviridae		Shanbavirus		New genus	[86]
Picornavirales	Picornaviridae		Shanbavirus	<i>Shanbavirus A</i>	New (type) species	[86]
Unassigned	Flaviviridae		Pestivirus	<i>Pestivirus A</i>	Rename (type) species (previous name: <i>Bovine viral diarrhea virus 1</i>)	[87]
Unassigned	Flaviviridae		Pestivirus	<i>Pestivirus B</i>	Rename species (previous name: <i>Bovine viral diarrhea virus 2</i>)	[87]
Unassigned	Flaviviridae		Pestivirus	<i>Pestivirus C</i>	Rename species (previous name: <i>Classical swine fever virus</i>)	[87]
Unassigned	Flaviviridae		Pestivirus	<i>Pestivirus D</i>	Rename species (previous name: <i>Border disease virus</i>)	[87]
Unassigned	Flaviviridae		Pestivirus	<i>Pestivirus E</i>	New species	[87]
Unassigned	Flaviviridae		Pestivirus	<i>Pestivirus F</i>	New species	[87]
Unassigned	Flaviviridae		Pestivirus	<i>Pestivirus G</i>	New species	[87]

Table 2 (continued)

Order	Family	Subfamily (blank = unassigned)	Genus	Species	Taxonomic change	References
Unassigned	<i>Flaviviridae</i>		<i>Pestivirus</i>	<i>Pestivirus H</i>	New species	[87]
Unassigned	<i>Flaviviridae</i>		<i>Pestivirus</i>	<i>Pestivirus I</i>	New species	[87]
Unassigned	<i>Flaviviridae</i>		<i>Pestivirus</i>	<i>Pestivirus J</i>	New species	[87]
unassigned	<i>Flaviviridae</i>		<i>Pestivirus</i>	<i>Pestivirus K</i>	New species	[87]
<i>Picornavirales</i>	<i>Polycipiviridae</i>				New family	[88]
<i>Picornavirales</i>	<i>Polycipiviridae</i>		<i>Sopolycivirus</i>		New genus	[88]
<i>Picornavirales</i>	<i>Polycipiviridae</i>		<i>Sopolycivirus</i>	<i>Solenopsis invicta virus 2</i>	nNew (type) species	[88]
<i>Picornavirales</i>	<i>Polycipiviridae</i>		<i>Sopolycivirus</i>	<i>Solenopsis invicta virus 4</i>	New species	[88]
<i>Picornavirales</i>	<i>Polycipiviridae</i>		<i>Sopolycivirus</i>	<i>Lasius niger virus 1</i>	New species	[88]
<i>Picornavirales</i>	<i>Polycipiviridae</i>		<i>Sopolycivirus</i>	<i>Shuangao insect virus 8</i>	New species	[88]
<i>Picornavirales</i>	<i>Polycipiviridae</i>		<i>Sopolycivirus</i>	<i>Myrmica scabrinodis virus 1</i>	New species	[88]
<i>Picornavirales</i>	<i>Polycipiviridae</i>		<i>Sopolycivirus</i>	<i>Lasius neglectus virus 1</i>	New species	[88]
<i>Picornavirales</i>	<i>Polycipiviridae</i>		<i>Sopolycivirus</i>	<i>Monomorium pharaonis virus 1</i>	New species	[88]
<i>Picornavirales</i>	<i>Polycipiviridae</i>		<i>Sopolycivirus</i>	<i>Lasius neglectus virus 2</i>	New species	[88]
<i>Picornavirales</i>	<i>Polycipiviridae</i>		<i>Sopolycivirus</i>	<i>Linepithema humile virus 2</i>	New species	[88]
<i>Picornavirales</i>	<i>Polycipiviridae</i>		<i>Sopolycivirus</i>	<i>Monomorium pharaonis virus 2</i>	New species	[88]
<i>Picornavirales</i>	<i>Polycipiviridae</i>		<i>Sopolycivirus</i>	<i>Formica exsecta virus 3</i>	New species	[88]
<i>Picornavirales</i>	<i>Polycipiviridae</i>		<i>Hupolycivirus</i>		New genus	[88]
<i>Picornavirales</i>	<i>Polycipiviridae</i>		<i>Hupolycivirus</i>	<i>Hubei hupolycivirus</i>	New (type) species	[88]
<i>Picornavirales</i>	<i>Polycipiviridae</i>		<i>Chipolycivirus</i>		New genus	[88]
<i>Picornavirales</i>	<i>Polycipiviridae</i>		<i>Chipolycivirus</i>	<i>Chironomus riparius virus 1</i>	New (type) species	[88]
<i>Picornavirales</i>	<i>Polycipiviridae</i>		<i>Chipolycivirus</i>	<i>Hubei chipolycivirus</i>	New species	[88]

Names of newly created taxa are in bold italic type

Names of existing taxa that have been moved or renamed are shown in plain italic type

of all approved taxa can be found on the ICTV website at <http://ictv.global/ns1>.

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Compliance with ethical standards

Conflict of interest The authors declare that they have no conflicts of interest.

Human rights This article does not contain any studies with human participants or animals performed by any of the authors. All authors have contributed to this work and agreed to its publication.

References

- Kropinski AM, Anany H, Kuhn JH, Tolstoy I, Kutter E, Adriænsens EM. Proposal 2017.001B.A.v3.*Ackermannviridae*. Create family *Ackermannviridae* in the order *Caudovirales*. <http://ictv.global/proposals-17/2017.001B.A.v3.Ackermannviridae.zip>. Accessed 25 Apr 2018
- Prangishvili D, Krupovic M. Proposal 2017.002B.A.v2.*Portoglobuviridae*. Create a new genus, *Alphaportoglobivirus*, within a new family *Portoglobuviridae*. <http://ictv.global/proposals-17/2017.002B.A.v2.Portoglobuviridae.zip>. Accessed 25 Apr 2018
- Kropinski AM, Kuhn JH, Gillis A, Adriænsens EM. Proposal 2017.003B.A.v1.*Anetoleivirus*. Create genus *Anetoleivirus* in family *Siphoviridae*, order *Caudovirales*. <http://ictv.global/proposals-17/2017.003B.A.v1.Anetoleivirus.zip>. Accessed 25 Apr 2018
- Kropinski AM, Kuhn JH, Adriænsens EM. Proposal 2017.004B.A.v1.*Cheburinivirinae*. In family *Siphoviridae* create subfamily *Cheburinivirinae* containing one existing and a new genus, *Brujittavirus*. <http://ictv.global/proposals-17/2017.004B.A.v1.Cheburinivirinae.zip>. Accessed 25 Apr 2018
- Kropinski AM, Kuhn JH, Adriænsens EM. Proposal 2017.005B.A.v1.*Attivirus*. Create genus *Attivirus* in family *Siphoviridae*, order *Caudovirales*. <http://ictv.global/proposals-17/2017.005B.A.v1.Attivirus.zip>. Accessed 25 Apr 2018
- Kropinski AM, Kuhn JH, Adriænsens EM. Proposal 2017.006B.A.v1.*Doucettavirus*. Create genus *Doucettavirus* in family *Siphoviridae*, order *Caudovirales*. <http://ictv.global/proposals-17/2017.006B.A.v1.Doucettavirus.zip>. Accessed 25 Apr 2018
- Morbidioli HR, Kropinski AM, Kuhn JH, Adriænsens EM. Proposal 2017.007B.A.v1.*Dclasvirinae*. In family *Siphoviridae* create subfamily *Dclasvirinae* containing two new genera, *Hawkeyevirus* and *Plonivirus*. <http://ictv.global/proposals-17/2017.007B.A.v1.Dclasvirinae.zip>. Accessed 25 Apr 2018
- Kropinski AM, Kuhn JH, Adriænsens EM, Refardt D. Proposal 2017.008B.A.v1.*HK97virus*. Create genus *HK97virus* in family *Siphoviridae*, order *Caudovirales*. <http://ictv.global/proposals-17/2017.008B.A.v1.HK97virus.zip>. Accessed 25 Apr 2018
- Kropinski AM, Kuhn JH, Adriænsens EM. Proposal 2017.009B.A.v1.*Mccleskeyvirus*. In family *Siphoviridae* create subfamily *Mccleskeyvirus* containing two new genera, *LmdVirus* and *Una4virus*. <http://ictv.global/proposals-17/2017.009B.A.v1.Mccleskeyvirus.zip>. Accessed 25 Apr 2018
- Kropinski AM, Kuhn JH, Adriænsens EM. Proposal 2017.010B.A.v1.*Nelasvirinae*. In family *Siphoviridae* create subfamily *Nelasvirinae* containing two new genera, *Redivirus* and *Buttersvirus*, and one existing genus. <http://ictv.global/proposals-17/2017.010B.A.v1.Nelasvirinae.zip>. Accessed 25 Apr 2018
- Kropinski AM, Kuhn JH, Adriænsens EM. Proposal 2017.011B.A.v2.*Nymbaaxtervirinae*. In family *Siphoviridae* create subfamily *Nymbaaxtervirinae* containing two new genera, *Nymphatoravirus* and *Baxervirus*. <http://ictv.global/proposals-17/2017.011B.A.v2.Nymbaaxtervirinae.zip>. Accessed 25 Apr 2018
- Kropinski AM, Kuhn JH, Adriænsens EM. Proposal 2017.012B.A.v1.*Wizardvirus*. Create genus *Wizardvirus* in family *Siphoviridae*, order *Caudovirales*. <http://ictv.global/proposals-17/2017.012B.A.v1.Wizardvirus.zip>. Accessed 25 Apr 2018
- Gillis A, Jang HB, Mahillon J, Kuhn JH, Kropinski AM, Adriænsens EM, Lavigne R. Proposal 2017.013B.A.v2.*Tectiviridae_rev*. In the family *Tectiviridae*, change the name of genus *Tectivirus* to *Alphatectivirus* and create a new genus, *Betatectivirus*. http://ictv.global/proposals-17/2017.013B.A.v2.Tectiviridae_rev.zip. Accessed 25 Apr 2018
- Poranen MM, Mäntynen S, Kuhn JH, Adriænsens EM, Kropinski AM. Proposal 2017.016B.A.v1.*Cystovirus*. Create six species in the genus *Cystovirus*, family *Cystoviridae*. http://ictv.global/proposals-17/2017.016B.A.v1.Cystovirus_6sp.zip. Accessed 25 Apr 2018
- Wittmann J, Kropinski AM, Kuhn JH, Adriænsens EM. Proposal 2017.017B.A.v1.*Dfl12virus*. Create genus *Dfl12virus* in the family *Podoviridae*, order *Caudovirales*. <http://ictv.global/proposals-17/2017.017B.A.v1.Dfl12virus.zip>. Accessed 25 Apr 2018
- Wittmann J, Moreno Swift AI, Kropinski AM, Kuhn JH, Adriænsens EM. Proposal 2017.018B.A.v1.*Sp58virus*. Create genus *Sp58virus* in the family *Podoviridae*, order *Caudovirales*. <http://ictv.global/proposals-17/2017.018B.A.v1.Sp58virus.zip>. Accessed 25 Apr 2018
- Kropinski AM, Kuhn JH, Adriænsens EM. Proposal 2017.019B.A.v1.*Svunavirus*. Create genus *Svunavirus* in the family *Podoviridae*, order *Caudovirales*. <http://ictv.global/proposals-17/2017.019B.A.v1.Svunavirus.zip>. Accessed 25 Apr 2018
- Skowron P, Kropinski AM, Kuhn JH, Adriænsens EM, Los N. Proposal 2017.020B.A.v1.*Tp84virus*. Create genus *Tp84virus* within the family *Siphoviridae*, order *Caudovirales*. <http://ictv.global/proposals-17/2017.020B.A.v1.Tp84virus.zip>. Accessed 25 Apr 2018
- Adriænsens EM, Kuhn JH, Kropinski AM, Hope S, Grose JH. Proposal 2017.021B.A.v1.*Eah2virus*. Create genus *Eah2virus* within the family *Myoviridae*, order *Caudovirales*. <http://ictv.global/proposals-17/2017.021B.A.v1.Eah2virus.zip>. Accessed 25 Apr 2018
- Wittmann J, Kropinski AM, Rohde M, Kuhn JH, Adriænsens EM. Proposal 2017.022B.A.v2.*Jwalphavirus*. Create genus *Jwalphavirus* in the family *Podoviridae*, order *Caudovirales*. <http://ictv.global/proposals-17/2017.022B.A.v2.Jwalphavirus.zip>. Accessed 25 Apr 2018

- ictv.global/proposals-17/2017.022B.A.v2.Jwalphavirus.zip. Accessed 25 Apr 2018
21. Owen V, Hinton JCD, Kropinski AM, Kuhn JH, Adriaenssens EM. Proposal 2017.023B.A.v1.P22virus, sp. Create a species in genus *P22virus* in the family *Podoviridae*, order *Caudovirales*. <http://ictv.global/proposals-17/2017.023B.A.v1.P22virus.sp.zip>. Accessed 25 Apr 2018
22. Adriaenssens EM, Kuhn JH, Kropinski AM, Hope S, Grose JH. Proposal 2017.024B.A.v1.Machinavirus. Create genus *Machinavirus* in family *Myoviridae*, order *Caudovirales*. <http://ictv.global/proposals-17/2017.024B.A.v1.Machinavirus.zip>. Accessed 25 Apr 2018
23. Moribidoni HR, Kropinski AM, Kuhn JH, Adriaenssens EM. Proposal 2017.026B.A.v2.Trigintaduovirus. Create genus *Trigintaduovirus* in the family *Siphoviridae*, order *Caudovirales*. <http://ictv.global/proposals-17/2017.026B.A.v2.Trigintaduovirus.zip>. Accessed 25 Apr 2018
24. Petrovski S, Kropinski AM, Kuhn JH, Adriaenssens EM. Proposal 2017.027B.A.v1.Pfri virus. Create genus *Pfifivirus* in the genus *Siphoviridae*, order *Caudovirales*. http://ictv.global/proposals-17/2017.027B.A.v1.Pfri_virus.zip. Accessed 25 Apr 2018
25. Kropinski AM, Adriaenssens EM. Proposal 2017.028B.A.v1.Lambdavirus_3sp. Create three species in the genus *Lambdavirus*, family *Siphoviridae*, order *Caudovirales*. http://ictv.global/proposals-17/2017.028B.A.v1.Lambdavirus_3sp.zip. Accessed 25 Apr 2018
26. Krupovic M, Llorens C, Koonin EV, Kuhn JH. Proposal 2017.001D.A.v1.Belpaoviridae. Create 3 species within genus *Semotivivirus* and move genus from family *Metaviridae* to a new family *Belpaoviridae*. <http://ictv.global/proposals-17/2017.001D.A.v1.Belpaoviridae.zip>. Accessed 25 Apr 2018
27. Canuti M, McDonald E, Lang AS. Proposal 2017.002D.A.v1. Androparvovirus_2sp. Create 2 species in the genus *Androparvovirus*, subfamily *Parvovirinae*, family *Parvoviridae*. http://ictv.global/proposals-17/2017.002D.A.v1.Androparvovirus_2sp.zip. Accessed 25 Apr 2018
28. Couture SF, Agbandje-McKenna M, Canuti M, Chiorini JA, Eis-Hubinger A-M, Hughes J, Modha S, Ogliastro M, Pintel DJ, Qiu J, Soderlund-Venermo M, Tattersall P, Tijssen P. Proposal 2017.003D.A.v2.Bocaparvovirus_9sp. Create 9 species in the genus *Bocaparvovirus*, subfamily *Parvovirinae*, family *Parvoviridae*. http://ictv.global/proposals-17/2017.003D.A.v2.Bocaparvovirus_9sp.zip. Accessed 25 Apr 2018
29. Cotmore SF, Agbandje-McKenna M, Canuti M, Chiorini JA, Eis-Hubinger A-M, Hughes J, Modha S, Ogliastro M, Pintel DJ, Qiu J, Soderlund-Venermo M, Tattersall P, Tijssen P. Proposal 2017.004D.A.v2.Protoparvovirus_6sp. Create 6 species in the genus *Protoparvovirus*, subfamily *Parvovirinae*, family *Parvoviridae*. http://ictv.global/proposals-17/2017.004D.A.v2.Protoparvovirus_6sp.zip. Accessed 25 Apr 2018
30. Saucedo Garnica B, Rijks JM. Proposal 2017.005D.A.v1.Ranavirus_sp. Create a species in family *Irtoloviridae*, genus *Ranavirus*, subfamily *Alphirlovirinae*. http://ictv.global/proposals-17/2017.005D.A.v1.Ranavirus_sp.zip. Accessed 25 Apr 2018
31. Khan AS, Bodein J, Buseyne F, Gessain A, Johnson W, Kuhn JH, Kuzmak J, Lindemann D, Linial ML, Löchel M, Maternik M, Soares MA, Switzer WM. Proposal 2017.006D.A.v2. Spumaretrovirinae_4gen. In the subfamily *Spumaretrovirinae*, create four genera (*Bovispongavirus*, *Equispongavirus*, *Felispongavirus*, *Prosimispongavirus*) and change the names of genus *Spongavirus* to *Semispumavirus* and its constituent species likewise. http://ictv.global/proposals-17/2017.006D.A.v2.Spumaretrovirinae_4gen.zip. Accessed 25 Apr 2018
32. Calvignac-Spencer S, Daugherty MD, Feltkamp MCW, Laufer C, Moens U, Ranqvist T, Verschoor EJ, Ehlers B. Proposal 2017.007D.A.v2.Polyomaviridae_sp. Create 8 species within the family *Polyomaviridae*. http://ictv.global/proposals-17/2017.007D.A.v2.Polyomaviridae_sp.zip. Accessed 25 Apr 2018
33. Harrison RL, Herniou EA, Krell PJ, Theilmann DA, Bechnel JJ, Jehle JA, Burand JP. Proposal 2017.008D.A.v1. *Betabaculovirus_2splren*. In genus *Betabaculovirus* (family *Baculoviridae*), create 2 species and rename one species. http://ictv.global/proposals-17/2017.008D.A.v1.Betabaculovirus_2splren.zip. Accessed 25 Apr 2018
34. Varsani A, Rosario K, Segales J, Delwart E, Breitbart M. Proposal 2017.009D.A.v1.Circoviridae_4sp. Create two species in each of the genera *Circovirus* and *Cyclovirus* family *Circoviridae*. http://ictv.global/proposals-17/2017.009D.A.v1.Circoviridae_4sp.zip. Accessed 25 Apr 2018
35. Burk R, Chen Z. Proposal 2017.010D.A.v1. *Papillomaviridae_2subf*. Create 17 species, 4 genera and 2 subfamilies in the family *Papillomaviridae*. http://ictv.global/proposals-17/2017.010D.A.v1.Papillomaviridae_2subf.zip. Accessed 25 Apr 2018
36. Varsani A, Krupovic M. Proposal 2017.011D.A.v3. *Smacoviridae*. Create the family *Smacoviridae* containing six genera and 43 species. <http://ictv.global/proposals-17/2017.011D.A.v3.Smacoviridae.zip>. Accessed 25 Apr 2018
37. Orfigi FC. Proposal 2017.012D.A.v1. *Batrachovirus*, family *Alloherpesviridae*, order *Herpesvirales*. http://ictv.global/proposals-17/2017.012D.A.v1.Batrachovirus_sp.zip. Accessed 25 Apr 2018
38. Krupovic M, Harrach B, Sabanadzovic S, Sanfaçon H, Koonin EV, Kuhn JH, Johnson W, Blomberg J, Coffin J, Fan H, Gifford R, Lindemann D, Mayer J, Stoye J, Tristem M, Teycheney PY, Dasgupta I, Geering A, Hull R, Kreuze JF, Lockhart B, Müller E, Olszewski N, Pappu H, Pooggin M, Richter-Poggeler K, Schoell JE, Seal S, Stavolone L. Proposal 2017.013D.A.v1. *Ortervirales*. Create the order *Ortervirales* comprising 5 families of reverse-transcribing viruses. <http://ictv.global/proposals-17/2017.013D.A.v1.Ortervirales.zip>. Accessed 25 Apr 2018
39. Harrach B, Böszörményi KP, Benkő M. Proposal 2017.014D.A.v1. *Adenoviridae_8sp*. Create 8 species in the family *Adenoviridae*. http://ictv.global/proposals-17/2017.014D.A.v1.Adenoviridae_8sp.zip. Accessed 25 Apr 2018
40. Magnius L, Norder H. Proposal 2017.015D.A.v1. *Hepdnaviridae_2sp*. Create 2 species to be unassigned in the family *Hepdnaviridae*. http://ictv.global/proposals-17/2017.015D.A.v1.Hepdnaviridae_2sp.zip. Accessed 25 Apr 2018
41. Harrach B, Benkő M. Proposal 2017.016D.A.v1. *Adenoviridae_4sp*. In the family *Adenoviridae*, create 1 species in genus *Atadenovirus* and 3 species in genus *Mastadenovirus*. http://ictv.global/proposals-17/2017.016D.A.v1.Adenoviridae_4sp.zip. Accessed 25 Apr 2018
42. Krupovic M, Kazlauskas D, Varsani A. Proposal 2017.001F.A.v1. *Bacilladnaviridae*. Create two new genera within a new family *Bacilladnaviridae*; also rename an existing genus and move from unassigned to the new family. <http://ictv.global/proposals-17/2017.001F.A.v1.Bacilladnaviridae.zip>. Accessed 25 Apr 2018
43. Siddell S. Proposal 2017.001G.A.v2.43spren. Change the names of 43 virus species to accord with ICVCN Code, Section 3-II, Rule 3.13 regarding the use of diacritical and other proscribed characters in taxon names. <http://ictv.global/proposals-17/2017.001G.A.v2.43spren.zip>. Accessed 25 Apr 2018
44. Kropinski AM, Kuhn JH and 133 others. Proposal 2017.003G.A.v2.ICVCN Rule 3.11. Change ICVCN Rule 3.11 to permit, with limitations, the names of people to be recognised in names of taxa. http://ictv.global/proposals-17/2017.003G.A.v2.ICVCN_Rule_3.11_Change.zip. Accessed 25 Apr 2018

45. Hepojoki J, Salmenperä P, Siironen T, Hetzel U, Korzyukov Y, Kipar A, Vapalahti O, Maes P, Buchmeier MJ, Charrel R, Clegg CS, de la Torre C, DeRisi JL, Emonet S, Gonzalez JP, Kuhn JH, Lukashevich IS, Peters CJ, Radoshitzky SR, Romanowski V, Salvato MS, Stenglein MD. Proposal 2017.001 M.A.v1.*Hartmannivirus*. Create genus *Hartmannivirus* in the family *Arenaviridae*. <http://ictv.global/proposals-17/2017.001M.A.v1.Hartmannivirus.zip>. Accessed 25 Apr 2018
46. Buchmeier MJ, Charrel R, Clegg CS, de la Torre C, DeRisi JL, Emonet S, Gonzalez JP, Kuhn JH, Lukashevich IS, Peters CJ, Radoshitzky SR, Romanowski V, Salvato MS, Stenglein MD. Proposal 2017.002 M.A.v3.*Mammarenavirus*_sp. Create species *Ryukyu mammarenavirus* in genus *Mammarenavirus*, family *Arenaviridae*. http://ictv.global/proposals-17/2017.002M.A.v3.Mammarenavirus_sp.zip. Accessed 25 Apr 2018
47. Ng TFF, Schneider BS, Gillis A, LeBreton M, Kondov NO, Coffey L, Wolfe ND, Delwart E, Buchmeier MJ, Charrel R, Clegg CS, de la Torre C, DeRisi JL, Emonet S, Gonzalez JP, Kuhn JH, Lukashevich IS, Peters CJ, Radoshitzky SR, Romanowski V, Salvato MS, Stenglein MD. Proposal 2017.003 M.A.v1.*Mammarenavirus*_sp. Create species *Souris mammarenavirus* in genus *Mammarenavirus*, family *Arenaviridae*. http://ictv.global/proposals-17/2017.003M.A.v1.Mammarenavirus_sp.zip. Accessed 25 Apr 2018
48. Rubbenstroth D, Briese T, Dürwald R, Horie M, Kuhn JH, Nowotny N, Payne S, Schwemmle M, Tomonaga K. Proposal 2017.004 M.A.v1.*Bornaviridae*_ren. Change the name of genus *Bornavirus* (family *Bornaviridae*, order *Mononegavirales*) to *Orthobornavirus* and the names of all its constituent species likewise. http://ictv.global/proposals-17/2017.004M.A.v1.Bornaviridae_ren.zip. Accessed 25 Apr 2018
49. Kuhn JH, Stenglein M, Weltehan J, Rubbenstroth D, Briese T, Dürwald R, Horie M, Nowotny N, Payne S, Schwemmle M, Tomonaga K, Hyndman T. Proposal 2017.005 M.A.v1.*Carbovirrus*. Create genus *Carbovirus* in family *Bornaviridae*. <http://ictv.global/proposals-17/2017.005M.A.v1.Carbovirus.zip>. Accessed 25 Apr 2018
50. Jansen van Vuren P, Wiley MR, Palacios G, Storm N, Kuhn JH, Markotter W, Birkhead M, Kemp A, Paweska JT. Proposal 2017.007 M.A.v1.*Orthobunyavirus*_sp. Create a species in genus *Orthobunyavirus*, family *Perniviridae*, order *Bunyavirales*. http://ictv.global/proposals-17/2017.007M.A.v1.Orthobunyavirus_sp.zip. Accessed 25 Apr 2018
51. Palacios G, Alkhovsky SV, Kuhn JH. Proposal 2017.008 M.A.v1. *Orthonairovirus*_2sp1ren. Create 2 species in genus *Orthonairovirus* (family *Nairoviridae*, order *Bunyavirales*) and rename one species http://ictv.global/proposals-17/2017.008M.A.v1.Orthonairovirus_2sp1ren.zip. Accessed 25 Apr 2018
52. Goldberg TL, Bennett AJ, Kityo R, Kuhn JH, Chapman CA. Proposal 2017.009 M.A.v1.*Ledantenevirus*_sp. Create a species in genus *Ledantevirus*, family *Rhabdoviridae*, order *Mononegavirales*. http://ictv.global/proposals-17/2017.009M.A.v1.Ledantenevirus_sp.zip. Accessed 25 Apr 2018
53. Kuhn JH, Verdugo C, Ng TFF, Mor SK, Choi K-S, Thomazelli LM, Ramírez VMN. Proposal 2017.010 M.A.v2.*Avulavirus*_6sp. Create 6 species in genus *Avulavirus*, family *Parmyxoviridae*, order *Mononegavirales*. http://ictv.global/proposals-17/2017.010M.A.v2.Avulavirus_6sp.zip. Accessed 25 Apr 2018
54. Smith GJD, Bahi J, Donis R, Hongo S, Kochs G, Lamb R, McCauley J, Palese P, Perez D, Presti R, Rimstad E. Proposal 2017.011 M.A.v2.*Orthomyxoviridae*_ren. Change the names of 4 genera and 5 species in the family *Orthomyxoviridae*. http://ictv.global/proposals-17/2017.011M.A.v2.Orthomyxoviridae_ren.zip. Accessed 25 Apr 2018
55. Marston DA, Mueller T, Freuling C, Banyard AC, Fooks AR. Proposal 2017.013 M.A.v1.*Lyssavirus*_sp. Create a species in genus *Lyssavirus*, family *Rhabdoviridae*, order *Mononegavirales*. http://ictv.global/proposals-17/2017.014M.A.v1.Lyssavirus_sp.zip. Accessed 25 Apr 2018
56. Marston DA, Echevarria J, Aréchiga N, Vázquez S, Mueller T, Freuling C, Banyard AC, Fooks AR. Proposal 2017.014 M.A.v1. *Lyssavirus*_sp. Create a species in genus *Lyssavirus*, family *Rhabdoviridae*, order *Mononegavirales*. http://ictv.global/proposals-17/2017.015M.A.v1.Lyssavirus_sp.zip. Accessed 25 Apr 2018
57. Hepojoki J, Siironen T, Bao Y, Maes P, Buchmeier MJ, Charrel R, Clegg CS, de la Torre C, DeRisi JL, Emonet S, Gonzalez JP, Kuhn JH, Lukashevich IS, Peters CJ, Radoshitzky SR, Romanowski V, Salvato MS, Stenglein MD. Proposal 2017.018 M.A.v1.*Orthoreovirus*_sp. Create a species in the genus *Orthoreovirus* (subfamily *Spinareovirinae*, family *Reoviridae*), create two species and rename three species. http://ictv.global/proposals-17/2017.018M.A.v1.Orthoreovirus_sp.zip. Accessed 25 Apr 2018
58. Jansen van Vuren P, Wiley MR, Palacios G, Storm N, McCullough S, Markotter W, Birkhead M, Kemp A, Paweska JT. Proposal 2017.018 M.A.v1.*Orthoreovirus*_sp. Create a species in the genus *Orthoreovirus*, subfamily *Spinareovirinae*, family *Reoviridae*. http://ictv.global/proposals-17/2017.018M.A.v1.Orthoreovirus_sp.zip. Accessed 25 Apr 2018
59. Wiley MR, Prieto, K, Blasdell KR, Caì Y, Campos Lawson C, Walker PJ, Chiu CY, Palacios G, Kuhn JH. Proposal 2017.019 M.A.v1.*Tibrovirus*_sp. Create a species in the genus *Tibrovirus*, family *Rhabdoviridae*, order *Mononegavirales*. http://ictv.global/proposals-17/2017.019M.A.v1.Tibrovirus_sp.zip. Accessed 25 Apr 2018
60. Wiley S, Adams MI, Chalam C, Kreuze JF, Lopez-Moya JJ, Ohshima K, Praveen S, Rabenstein F, Wang A, Zerbini FM. Proposal 2017.001P.A.v2.*Potyviridae*_2gen. Create 2 genera, *Roymovirus* and *Bevenmovirus*, in the family *Potyviridae*. http://ictv.global/proposals-17/2017.001P.A.v2.Potyviridae_2gen.zip. Accessed 25 Apr 2018
61. García ML, Dal Bó E, da Graca JV, Gago-Zachert S, Hammond J, Moreno P, Natsumi T, Pallás V, Navarro JA, Reyes CA, Luna GR, Sasaya T, Tzanetakis IE, Vaira AM, Verbeek M, Kuhn JH. Proposal 2017.002P.A.v2.*Ophioviridae*_ren. Change the name of the family *Ophioviridae* to *Aspiviridae* and adopt non-latinised binomial names for its constituent species. http://ictv.global/proposals-17/2017.002P.A.v2.Ophioviridae_ren.zip. Accessed 25 Apr 2018
62. Sōnera M, Truve E, Hebrard E. Proposal 2017.003P.A.v2. *Solemoviridae*. Create family *Solemoviridae*, combining the *Sobemoviridae* and *Polemoviridae* genera. <http://ictv.global/proposals-17/2017.003P.A.v2.Solemoviridae.zip>. Accessed 25 Apr 2018
63. Briddon R, Varsani A. Proposal 2017.004P.A.v4.*Alphahastellitidae*. Create the *Alphahastellitidae*, a family of satellites comprising 2 new subfamilies and 11 new genera. <http://ictv.global/proposals-17/2017.004P.A.v4.Alphahastellitidae.zip>. Accessed 25 Apr 2018
64. Thompson JR, Karasev AV, Sanfacon H, Dasgupta I, Tzanetakis I, Petrikz K, Fuchs M, Yoshikawa N, van der Vlugt R, Weitzel T, Iwanami T. Proposal 2017.005P.A.v2.*Secoviridae*_5sp. In the family *Secoviridae* create two species in genus *Nepovirus*, two species in genus *Fabavirus* and one unassigned species. http://ictv.global/proposals-17/2017.005P.A.v2.Secoviridae_5sp.zip. Accessed 25 Apr 2018
65. Wiley S, Adams MI, Chalam C, Kreuze JF, Lopez-Moya JJ, Ohshima K, Praveen S, Rabenstein F, Wang A, Zerbini FM. Proposal 2017.007P.A.v1.*Potyviridae*_9sp. Create 9 species in the family *Potyviridae*. http://ictv.global/proposals-17/2017.007P.A.v1.Potyviridae_9sp.zip. Accessed 25 Apr 2018
66. Varsani A, Martin DP. Proposal 2017.008P.A.v2.*Mastrevirus*_5sp. Create five species in the genus *Mastrevirus*, family *Geminiviridae*. http://ictv.global/proposals-17/2017.008P.A.v2.Mastrevirus_5sp.zip. Accessed 25 Apr 2018

67. Varsani A, Martin DP. Proposal 2017.009P.A.v1.Turncurtovirus sp. Create a species in the genus *Turncurtovirus*, family *Geminiviridae*. <http://ictv.global/proposals-17/2017.009P.A.v1.Turncurtovirus.sp.zip>. Accessed 25 Apr 2018
68. Zerbini FM, Varsani A, Navas-Castillo J, Moriones E, Martin D, Briddon R. Proposal 2017.010P.A.v1.Begomovirus_66sp. Create 66 species in the genus *Begomovirus*, family *Geminiviridae*. http://ictv.global/proposals-17/2017.010P.A.v1.Begomovirus_66sp.zip. Accessed 25 Apr 2018
69. Zerbini FM. Proposal 2017.011P.A.v1.Gemini_sp_ren. Correct the names of three species in the family *Geminiviridae* and one species in the *Tolecusatellitidae*. http://ictv.global/proposals-17/2017.011P.A.v1.Gemini_sp_ren.zip. Accessed 25 Apr 2018
70. Sabanadzovic S, Valverde RA, Okada R. Proposal 2017.012P.A.v1.Endornaviridae_2sp. Create two species in the family *Endornaviridae*. http://ictv.global/proposals-17/2017.012P.A.v1.Endornaviridae_2sp.zip. Accessed 25 Apr 2018
71. Bujarski J, Gallitelli D, Reddy MK, Garcia-Arenal F, Wang A, Scott SW. Proposal 2017.013P.A.v2.Ilarvirus_3sp. Create 3 species in the genus *Illarvirus*, family *Bromoviridae*. http://ictv.global/proposals-17/2017.013P.A.v2.Ilarvirus_3sp.zip. Accessed 25 Apr 2018
72. Matthiesen R, Miller WA. Proposal 2017.014P.A.v1.Polterovirus_sp. Create species, *Maize yellow mosaic virus*, in the genus *Polterovirus*, family *Luteoviridae*. http://ictv.global/proposals-17/2017.014P.A.v1.Polterovirus_sp.zip. Accessed 25 Apr 2018
73. Ibabu JD, Gubba A, Laing MD. Proposal 2017.015P.A.v1.Polterovirus_sp. Create species, *Pepo aphid-borne yellows virus*, in the genus *Polterovirus*, family *Luteoviridae*. http://ictv.global/proposals-17/2017.015P.A.v1.Polterovirus_sp.zip. Accessed 25 Apr 2018
74. Geering A, Bömer M, Turaki AA, Seal SE, Teycheney P-Y. Proposal 2017.017P.A.v2.Badnavirus_6sp. Create 6 species in the genus *Badnavirus*, family *Caulimoviridae*. http://ictv.global/proposals-17/2017.017P.A.v2.Badnavirus_6sp.zip. Accessed 25 Apr 2018
75. Fuchs M, Agranovsky AA, Bar-Joseph M, Candresse T, Dolja V, Livieratos I, Martelli GP, Maree H, Meitzer MI, Menzel W, Minafra A, Sabanadzovic S. Proposal 2017.018P.A.v1.Ampelovirus_sp. Create a species in the genus *Ampelovirus*, family *Closteroviridae*. http://ictv.global/proposals-17/2017.018P.A.v1.Ampelovirus_sp.zip. Accessed 25 Apr 2018
76. Sabanadzovic S, Edwards M, Hammond R, Haenni A-L, Martelli GP, Dreher T. Proposal 2017.019P.A.v1.Marafivirus_2sp. Create two species in the genus *Marafivirus*, family *Tymoviridae*. http://ictv.global/proposals-17/2017.019P.A.v1.Marafivirus_2sp.zip. Accessed 25 Apr 2018
77. Kreuze J, Adams MJ, Candresse T, Hammond J, Menzel W, Pearson M, Saldarelli P, Vairia A, Yoshikawa N. Proposal 2017.020P.A.v1.Deltaflexiviridae. Create 3 species in a new genus, *Deltaflexivirus*, in a new family, *Deltaflexiviridae*, in the order *Tymovirales*. <http://ictv.global/proposals-17/2017.020P.A.v1.Deltaflexiviridae.zip>. Accessed 25 Apr 2018
78. Kreuze J, Adams MJ, Candresse T, Hammond J, Menzel W, Pearson M, Saldarelli P, Vairia AM, Yoshikawa N. Proposal 2017.021P.A.v3.Alpha-Betaflexiviridae_14sp. Create 14 new species in the *Alpha-Betaflexiviridae* family. Assign the unassigned species *Blackberry virus E* to the genus *Allexivirus*. http://ictv.global/proposals-17/2017.021P.A.v3.Alpha-Betaflexiviridae_14sp.zip. Accessed 25 Apr 2018
79. Zell R, Delwart E, Gorbalenya AE, Hovi T, King AMQ, Knowles NJ, Lindberg AM, Pallansch MA, Palmenberg AC, Reuter G, Simmonds P, Skern T, Stanway G, Yamashita T. Proposal 2017.002S.A.v1.Aalivirus. Create 1 new species (*Aalivirus A*) in new genus (*Aalivirus*). <http://ictv.global/proposals-17/2017.002S.A.v1.Aalivirus.zip>. Accessed 25 Apr 2018
80. Zell R, Delwart E, Gorbalenya AE, Hovi T, King AMQ, Knowles NJ, Lindberg AM, Pallansch MA, Palmenberg AC, Reuter G, Simmonds P, Skern T, Stanway G, Yamashita T. Proposal 2017.003S.A.v1.Bopivirus. Create 1 new species (*Bopivirus A*) in a new genus (*Bopivirus*). <http://ictv.global/proposals-17/2017.003S.A.v1.Bopivirus.zip>. Accessed 25 Apr 2018
81. Zell R, Delwart E, Gorbalenya AE, Hovi T, King AMQ, Knowles NJ, Lindberg AM, Pallansch MA, Palmenberg AC, Reuter G, Simmonds P, Skern T, Stanway G, Yamashita T. Proposal 2017.004S.A.v2.Crohivirus. Create 2 new species (*Crohivirus A*) in a new genus (*Crohivirus*). <http://ictv.global/proposals-17/2017.004S.A.v2.Crohivirus.zip>. Accessed 25 Apr 2018
82. Zell R, Delwart E, Gorbalenya AE, Hovi T, King AMQ, Knowles NJ, Lindberg AM, Pallansch MA, Palmenberg AC, Reuter G, Simmonds P, Skern T, Stanway G, Yamashita T. Proposal 2017.005S.A.v1.Enterovirus_2sp. Create 2 new species, *Enterovirus K* *Enterovirus L* in the genus *Enterovirus*. http://ictv.global/proposals-17/2017.005S.A.v1.Enterovirus_2sp.zip. Accessed 25 Apr 2018
83. Zell R, Delwart E, Gorbalenya AE, Hovi T, King AMQ, Knowles NJ, Lindberg AM, Pallansch MA, Palmenberg AC, Reuter G, Simmonds P, Skern T, Stanway G, Yamashita T. Proposal 2017.006S.A.v2.Kunsagivirus_2sp. Create 2 new species (*Kunsagivirus B* & *Kunsagivirus C*) in the genus *Kunsagivirus*. http://ictv.global/proposals-17/2017.006S.A.v2.Kunsagivirus_2sp.zip. Accessed 25 Apr 2018
84. Zell R, Delwart E, Gorbalenya AE, Hovi T, King AMQ, Knowles NJ, Lindberg AM, Pallansch MA, Palmenberg AC, Reuter G, Simmonds P, Skern T, Stanway G, Yamashita T. Proposal 2017.007S.A.v2.Megrevirus_4sp. Change the name of species *Megrevirus A* to *MegrevirusA* and create 4 new species (*Megrevirus B*, *C*, *D*, *E*) in the genus *Megrevirus*. http://ictv.global/proposals-17/2017.007S.A.v2.Megrevirus_4sp.zip. Accessed 25 Apr 2018
85. Zell R, Delwart E, Gorbalenya AE, Hovi T, King AMQ, Knowles NJ, Lindberg AM, Pallansch MA, Palmenberg AC, Reuter G, Simmonds P, Skern T, Stanway G, Yamashita T. Proposal 2017.008S.A.v1.Orivirus. Create 1 new species (*Orivirus A*) in a new genus (*Orivirus*). <http://ictv.global/proposals-17/2017.008S.A.v1.Orivirus.zip>. Accessed 25 Apr 2018
86. Zell R, Delwart E, Gorbalenya AE, Hovi T, King AMQ, Knowles NJ, Lindberg AM, Pallansch MA, Palmenberg AC, Reuter G, Simmonds P, Skern T, Stanway G, Yamashita T. Proposal 2017.009S.A.v1.Shanbavirus. Create 1 new species (*Shanbavirus A*) in a new genus (*Shanbavirus*). <http://ictv.global/proposals-17/2017.009S.A.v1.Shanbavirus.zip>. Accessed 25 Apr 2018
87. Smith DB, Meyers G, Buhk J, Gould EA, Monath T, Muerhoff AS, Pleitev A, Rico-Hesse R, Stapleton JT, Simmonds P and Becher P. Proposal 2017.010S.A.v1.Pestivirus_7sp4spren. Rename four species and create seven species in the genus *Pestivirus*, family *Flaviviridae*. http://ictv.global/proposals-17/2017.010S.A.v1.Pestivirus_7sp4spren.zip. Accessed 25 Apr 2018
88. Olendratié L, Lukhovitskaya NI, Porter SD, Valles SM, Firth AE. Proposal 2017.011S.A.v2.Polycipiviridae. In the order *Picomavirales*, create family *Polycipiviridae* comprising three genera *Soplycivirus*, *Haplycivirus* and *Chopolycivirus*. <http://ictv.global/proposals-17/2017.011S.A.v2.Polycipiviridae.zip>. Accessed 25 Apr 2018

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