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 (*Tectivirus*) 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 *Caudovirales*, 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 *Leuconostoc* 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	Ackermannviridae				New family	[1]
Caudovirales	Ackermannviridae	Aglimvirinae			New subfamily	[1]
Caudovirales	Ackermannviridae	Aglimvirinae	Ag3virus		New genus	[1]
Caudovirales	Ackermannviridae	Aglimvirinae	Ag3virus	<i>Shigella virus AG3</i>	Move species to be type species (previous position: <i>Caudovirales/Myoviridae/Vi1virus</i>)	[1]
Caudovirales	Ackermannviridae	Aglimvirinae	Ag3virus	<i>Salmonella virus SKML39</i>	New species	[1]
Caudovirales	Ackermannviridae	Aglimvirinae	Limestonevirus		New genus	[1]
Caudovirales	Ackermannviridae	Aglimvirinae	Limestonevirus	<i>Dickeya virus Limestone</i>	Move species to be type species (previous position: <i>Caudovirales/Myoviridae/Vi1virus</i>)	[1]
Caudovirales	Ackermannviridae	Aglimvirinae		<i>Dickeya virus RC2014</i>	New species	[1]
Caudovirales	Ackermannviridae	Civirinae			New subfamily	[1]
Caudovirales	Ackermannviridae	Civirinae	Cha120virus		New genus	[1]
Caudovirales	Ackermannviridae	Civirinae	Cha120virus	<i>Escherichia virus CBA120</i>	Move species to be type species (previous position: <i>Caudovirales/Myoviridae/Vi1virus</i>)	[1]
Caudovirales	Ackermannviridae	Civirinae			Move species (previous position: <i>Caudovirales/Myoviridae/Vi1virus</i>)	[1]
Caudovirales	Ackermannviridae	Civirinae	Cha120virus	<i>Salmonella virus SFP10</i>	New species	[1]
Caudovirales	Ackermannviridae	Civirinae	Cha120virus	<i>Salmonella virus GG32</i>	Move species (previous position: <i>Caudovirales/Myoviridae/Vi1virus</i>)	[1]
Caudovirales	Ackermannviridae	Civirinae	Cha120virus	<i>Escherichia virus Phad</i>	Move species (previous position: <i>Caudovirales/Myoviridae/Vi1virus</i>)	[1]
Caudovirales	Ackermannviridae	Civirinae	Cha120virus	<i>Salmonella virus Dea7</i>	Move species (previous position: <i>Caudovirales/Myoviridae/Vi1virus</i>)	[1]
Caudovirales	Ackermannviridae	Civirinae	Cha120virus	<i>Salmonella virus SH19</i>	Move species (previous position: <i>Caudovirales/Myoviridae/Vi1virus</i>)	[1]
Caudovirales	Ackermannviridae	Civirinae	Cha120virus	<i>Salmonella virus 38</i>	New species	[1]
Caudovirales	Ackermannviridae	Civirinae	Cha120virus	<i>Salmonella virus PM10</i>	New species	[1]
Caudovirales	Ackermannviridae	Civirinae	Cha120virus	<i>Salmonella virus SJ3</i>	Move species	[1]
Caudovirales	Ackermannviridae	Civirinae	Vi1virus		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 STM131</i> (previous position: <i>Caudovirales/Myoviridae/Vi1virus</i>)	[1]
Caudovirales	Ackermannviridae		Unassigned	<i>Erwinia virus Ea2809</i>	New species unassigned in family	[1]
Caudovirales	Ackermannviridae		Unassigned	<i>Serratia virus MAM1</i>	New species unassigned in family	[1]
Caudovirales	Ackermannviridae		Unassigned	<i>Serratia virus IME250</i>	New species unassigned in family	[1]
Caudovirales	Ackermannviridae		Unassigned	<i>Klebsiella virus 0507KN21</i>	New species unassigned in family	[1]
Unassigned	Portogloboviridae				New family	[2]
Unassigned	Portogloboviridae				New genus	[2]
Unassigned	Portogloboviridae				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	Chebravirinae			New subfamily	[4]
Caudovirales	Siphoviridae	Chebravirinae	Che9cvirus		Move genus (with constituent type species: <i>Mycobacterium virus Che9c</i>)	[4]
Caudovirales	Siphoviridae	Chebravirinae	Che9cvirus	<i>Mycobacterium virus Shash</i>	New species	[4]
Caudovirales	Siphoviridae	Chebravirinae	Brujitavirus		New genus	[4]
Caudovirales	Siphoviridae	Chebravirinae	Brujitavirus	<i>Mycobacterium virus Brujita</i>	Move species to be type species (previous position: <i>Caudovirales/Siphoviridae/Che9cvirus</i>)	[4]
Caudovirales	Siphoviridae	Chebravirinae		<i>Mycobacterium virus Babstella</i>	Move species (previous position: <i>Caudovirales/Siphoviridae/Che9cvirus</i>)	[4]
Caudovirales	Siphoviridae		Atisvirus		New genus	[5]
Caudovirales	Siphoviridae		Atisvirus	<i>Gordonia virus Atis</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	Delasvirinae			New subfamily	[7]
Caudovirales	Siphoviridae	Delasvirinae	Plotvirus		New genus	[7]
Caudovirales	Siphoviridae	Delasvirinae	Plotvirus	<i>Mycobacterium virus Plot</i>	New (type) species	[7]
Caudovirales	Siphoviridae	Delasvirinae	Hawkeyevirus		New genus	[7]
Caudovirales	Siphoviridae	Delasvirinae	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: <i>Caudovirales/Siphoviridae/Lambdavirus</i>)	[8]
Caudovirales	Siphoviridae		HK97virus	<i>Escherichia virus HK022</i>	Move species (previous position: <i>Caudovirales/Siphoviridae/Lambdavirus</i>)	[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	Meckeskeyvirinae			New subfamily	[9]

Table 2 (continued)

Order	Family	Subfamily (blank = unassigned)	Genus	Species	Taxonomic change	References
Caudovirales	Siphoviridae	Mecleskeyvirinae	Una4virus		New genus	[9]
Caudovirales	Siphoviridae	Mecleskeyvirinae	Una4virus	<i>Leuconostoc virus IA4</i>	New (type) species	[9]
Caudovirales	Siphoviridae	Mecleskeyvirinae	Una4virus	<i>Leuconostoc virus Ln9</i>	New species	[9]
Caudovirales	Siphoviridae	Mecleskeyvirinae	Una4virus	<i>Leuconostoc virus Ln8</i>	New species	[9]
Caudovirales	Siphoviridae	Mecleskeyvirinae	Una4virus	<i>Leuconostoc virus LN25</i>	New species	[9]
Caudovirales	Siphoviridae	Mecleskeyvirinae	Una4virus	<i>Leuconostoc virus LN34</i>	New species	[9]
Caudovirales	Siphoviridae	Mecleskeyvirinae	Una4virus	<i>Leuconostoc virus LNTR3</i>	New species	[9]
Caudovirales	Siphoviridae	Mecleskeyvirinae	LmdIvirus		New genus	[9]
Caudovirales	Siphoviridae	Mecleskeyvirinae	LmdIvirus	<i>Leuconostoc virus P793</i>	New species	[9]
Caudovirales	Siphoviridae	Mecleskeyvirinae	LmdIvirus	<i>Leuconostoc virus LN12</i>	New species	[9]
Caudovirales	Siphoviridae	Mecleskeyvirinae	LmdIvirus	<i>Leuconostoc virus LN03</i>	New species	[9]
Caudovirales	Siphoviridae	Mecleskeyvirinae	LmdIvirus	<i>Leuconostoc virus LN04</i>	New species	[9]
Caudovirales	Siphoviridae	Mecleskeyvirinae	LmdIvirus	<i>Leuconostoc virus LN6B</i>	New species	[9]
Caudovirales	Siphoviridae	Mecleskeyvirinae	LmdIvirus	<i>Leuconostoc virus LmdI</i>	New (type) species	[9]
Caudovirales	Siphoviridae	Nclavirinae			New subfamily	[10]
Caudovirales	Siphoviridae	Nclavirinae	Redivirus		New genus	[10]
Caudovirales	Siphoviridae	Nclavirinae	Redivirus	<i>Mycobacterium virus Redi</i>	Move species to be type species (previous position: <i>Caudovirales/Siphoviridae/Charlievirus</i>)	[10]
Caudovirales	Siphoviridae	Nclavirinae	Redivirus	<i>Mycobacterium virus Panchino</i>	New species	[10]
Caudovirales	Siphoviridae	Nclavirinae	Redivirus	<i>Mycobacterium virus Skinnyp</i>	New species	[10]
Caudovirales	Siphoviridae	Nclavirinae	Redivirus	<i>Mycobacterium virus Phrann</i>	New species	[10]
Caudovirales	Siphoviridae	Nclavirinae	Charlievirus		Move genus (with constituent species: <i>Mycobacterium virus Charlie</i>)	[10]
Caudovirales	Siphoviridae	Nclavirinae	Charlievirus	<i>Mycobacterium virus Pipsqueaks</i>	New species	[10]
Caudovirales	Siphoviridae	Nclavirinae	Charlievirus	<i>Mycobacterium virus Xeno</i>	New species	[10]
Caudovirales	Siphoviridae	Nclavirinae	Buttersvirus		New genus	[10]
Caudovirales	Siphoviridae	Nclavirinae	Buttersvirus	<i>Mycobacterium virus Butters</i>	New (type) species	[10]
Caudovirales	Siphoviridae	Nclavirinae	Buttersvirus	<i>Mycobacterium virus Michelle</i>	New species	[10]
Caudovirales	Siphoviridae	Nymbaxtervirinae			New subfamily	[11]
Caudovirales	Siphoviridae	Nymbaxtervirinae	Nymphadoravirus		New genus	[11]
Caudovirales	Siphoviridae	Nymbaxtervirinae	Nymphadoravirus	<i>Gordonia virus Nymphadora</i>	New (type) species	[11]
Caudovirales	Siphoviridae	Nymbaxtervirinae	Nymphadoravirus	<i>Gordonia virus Kita</i>	New species	[11]
Caudovirales	Siphoviridae	Nymbaxtervirinae	Nymphadoravirus	<i>Gordonia virus Zirinka</i>	New species	[11]
Caudovirales	Siphoviridae	Nymbaxtervirinae	Baxtervirus		New genus	[11]
Caudovirales	Siphoviridae	Nymbaxtervirinae	Baxtervirus	<i>Gordonia virus BaxterFox</i>	New (type) species	[11]
Caudovirales	Siphoviridae	Nymbaxtervirinae	Baxtervirus	<i>Gordonia virus Yeezy</i>	New species	[11]
Caudovirales	Siphoviridae	Nymbaxtervirinae	Wizardvirus		New genus	[12]
Caudovirales	Siphoviridae	Wizardvirus	Wizardvirus	<i>Gordonia virus Wizard</i>	New (type) species	[12]
Caudovirales	Siphoviridae	Wizardvirus	Wizardvirus	<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]
Unassigned					Abolish species <i>Thermus virus P37-14</i> (previous position: <i>Tectiviridae/Tectivirus</i>)	[13]
Unassigned					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]
Caudovirales	<i>Podoviridae</i>		<i>DJ12virus</i>		New genus	[15]
Caudovirales	<i>Podoviridae</i>		<i>DJ12virus</i>	<i>Dinoroseobacter virus DFL12</i>	New (type) species	[15]
Caudovirales	<i>Podoviridae</i>		<i>Sp58virus</i>		New genus	[16]
Caudovirales	<i>Podoviridae</i>		<i>Sp58virus</i>	<i>Salmonella virus FSL SP-458</i>	New (type) species	[16]
Caudovirales	<i>Podoviridae</i>		<i>Sp58virus</i>	<i>Salmonella virus FSL SP-076</i>	New species	[16]
Caudovirales	<i>Podoviridae</i>		<i>Sp58virus</i>	<i>Escherichia virus Pollock</i>	New species	[16]
Caudovirales	<i>Myoviridae</i>		<i>Synnavirus</i>		New genus	[17]
Caudovirales	<i>Myoviridae</i>		<i>Synnavirus</i>	<i>Geobacillus virus GBSV1</i>	New (type) species	[17]
Caudovirales	<i>Myoviridae</i>		<i>Synnavirus</i>	<i>Bacillus virus 1</i>	New species	[17]
Caudovirales	<i>Siphoviridae</i>		<i>Tp84virus</i>		New genus	[18]
Caudovirales	<i>Siphoviridae</i>		<i>Tp84virus</i>	<i>Geobacillus virus Tp84</i>	New (type) species	[18]
Caudovirales	<i>Myoviridae</i>		<i>Eah2virus</i>		New genus	[19]
Caudovirales	<i>Myoviridae</i>		<i>Eah2virus</i>	<i>Erwinia virus Eah2</i>	New (type) species	[19]
Caudovirales	<i>Myoviridae</i>		<i>Eah2virus</i>	<i>Erwinia virus Asesino</i>	New species	[19]
Caudovirales	<i>Podoviridae</i>		<i>Jwalphavirus</i>		New genus	[20]
Caudovirales	<i>Podoviridae</i>		<i>Jwalphavirus</i>	<i>Achromobacter virus JWA1pha</i>	New (type) species	[20]
Caudovirales	<i>Podoviridae</i>		<i>Jwalphavirus</i>	<i>Achromobacter virus Axp3</i>	New species	[20]
Caudovirales	<i>Podoviridae</i>		<i>P22virus</i>	<i>Salmonella virus BTP1</i>	New species	[21]
Caudovirales	<i>Myoviridae</i>		<i>Machinavirus</i>		New genus	[22]
Caudovirales	<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>Trigintaduovirus</i>		New genus	[23]
Caudovirales	Siphoviridae		<i>Trigintaduovirus</i>	<i>Mycobacterium virus 32HC</i>	New (type) species	[23]
Caudovirales	Siphoviridae		<i>Pf1 virus</i>		New genus	[24]
Caudovirales	Siphoviridae		<i>Pf1 virus</i>	<i>Propionibacterium virus PFRI</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 Suzu virus</i>	Rename species (previous name: <i>Fugu rubripes Suzu virus</i>)	[26]
Unassigned	Belpaoviridae		<i>Semotivirus</i>	<i>Drosophila semotivirus Max</i>	New species	[26]
Unassigned	Belpaoviridae		<i>Semotivirus</i>	<i>Antheraea semotivirus Tamy</i>	New species	[26]
Unassigned	Belpaoviridae		<i>Semotivirus</i>	<i>Schistosoma semotivirus Sinbad</i>	New species	[26]
Unassigned	Belpaoviridae	<i>Parvovirinae</i>	<i>Andoparvovirus</i>	<i>Carnivore andoparvovirus 3</i>	New species	[27]
Unassigned	Belpaoviridae	<i>Parvovirinae</i>	<i>Andoparvovirus</i>	<i>Carnivore andoparvovirus 4</i>	New species	[27]
Unassigned	Belpaoviridae	<i>Parvovirinae</i>	<i>Bocaparvovirus</i>	<i>Carnivore bocaparvovirus 4</i>	New species	[28]
Unassigned	Belpaoviridae	<i>Parvovirinae</i>	<i>Bocaparvovirus</i>	<i>Carnivore bocaparvovirus 5</i>	New species	[28]
Unassigned	Belpaoviridae	<i>Parvovirinae</i>	<i>Bocaparvovirus</i>	<i>Carnivore bocaparvovirus 6</i>	New species	[28]
Unassigned	Belpaoviridae	<i>Parvovirinae</i>	<i>Bocaparvovirus</i>	<i>Chiropteran bocaparvovirus 1</i>	New species	[28]
Unassigned	Belpaoviridae	<i>Parvovirinae</i>	<i>Bocaparvovirus</i>	<i>Chiropteran bocaparvovirus 2</i>	New species	[28]
Unassigned	Belpaoviridae	<i>Parvovirinae</i>	<i>Bocaparvovirus</i>	<i>Chiropteran bocaparvovirus 3</i>	New species	[28]
Unassigned	Belpaoviridae	<i>Parvovirinae</i>	<i>Bocaparvovirus</i>	<i>Chiropteran bocaparvovirus 4</i>	New species	[28]
Unassigned	Belpaoviridae	<i>Parvovirinae</i>	<i>Bocaparvovirus</i>	<i>Lagomorph bocaparvovirus 1</i>	New species	[28]
Unassigned	Belpaoviridae	<i>Parvovirinae</i>	<i>Bocaparvovirus</i>	<i>Ungulate bocaparvovirus 6</i>	New species	[28]
Unassigned	Belpaoviridae	<i>Parvovirinae</i>	<i>Protoparvovirus</i>	<i>Chiropteran protoparvovirus 1</i>	New species	[29]
Unassigned	Belpaoviridae	<i>Parvovirinae</i>	<i>Protoparvovirus</i>	<i>Eulipotyphla protoparvovirus 1</i>	New species	[29]
Unassigned	Belpaoviridae	<i>Parvovirinae</i>	<i>Protoparvovirus</i>	<i>Primate protoparvovirus 2</i>	New species	[29]
Unassigned	Belpaoviridae	<i>Parvovirinae</i>	<i>Protoparvovirus</i>	<i>Primate protoparvovirus 3</i>	New species	[29]
Unassigned	Belpaoviridae	<i>Parvovirinae</i>	<i>Protoparvovirus</i>	<i>Rodent protoparvovirus 3</i>	New species	[29]
Unassigned	Belpaoviridae	<i>Parvovirinae</i>	<i>Protoparvovirus</i>	<i>Ungulate protoparvovirus 2</i>	New species	[29]
Unassigned	Belpaoviridae	<i>Alphadovirinae</i>	<i>Ranavirus</i>	<i>Common midwife toad virus</i>	New species	[30]
Unassigned	Belpaoviridae	<i>Spumaretrovirinae</i>	<i>Simiispumavirus</i>		Rename genus (previous name: <i>Spumavirus</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>Griquet 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-ear 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	<i>Prosimiispumavirus</i>		New genus	[31]
Unassigned	Retroviridae	Spumaretrovirinae	<i>Prosimiispumavirus</i>	<i>Brown greater galago prosimian foamy virus</i>	New (type) species	[31]
Unassigned	Retroviridae	Spumaretrovirinae	<i>Bovispumavirus</i>		New genus	[31]
Unassigned	Retroviridae	Spumaretrovirinae	<i>Bovispumavirus</i>	<i>Bovine foamy virus</i>	Move species to be type species (previous position: <i>Retroviridae/Spumaretrovirinae/Spumavirus</i>)	[31]
Unassigned	Retroviridae	Spumaretrovirinae	<i>Felispumavirus</i>		New genus	[31]
Unassigned	Retroviridae	Spumaretrovirinae	<i>Felispumavirus</i>	<i>Feline foamy virus</i>	move species to be type species (previous position: <i>Retroviridae/Spumaretrovirinae/Spumavirus</i>)	[31]
Unassigned	Retroviridae	Spumaretrovirinae	<i>Felispumavirus</i>	<i>Puma feline foamy virus</i>	New species	[31]
Unassigned	Retroviridae	Spumaretrovirinae	<i>Equispumavirus</i>		New genus	[31]
Unassigned	Retroviridae	Spumaretrovirinae	<i>Equispumavirus</i>	<i>Equine foamy virus</i>	Move species to be type species (previous position: <i>Retroviridae/Spumaretrovirinae/Spumavirus</i>)	[31]
Unassigned	Polyomaviridae		unassigned	<i>Rhynchobatus djiddensis polyomavirus 1</i>	New unassigned species	[32]
Unassigned	Polyomaviridae		<i>Betapolyomavirus</i>	<i>Vicugna pacos polyomavirus 1</i>	New species	[32]
Unassigned	Polyomaviridae		<i>Betapolyomavirus</i>	<i>Rattus norvegicus polyomavirus 2</i>	New species	[32]
Unassigned	Polyomaviridae		<i>Betapolyomavirus</i>	<i>Leptonchotes weddellii polyomavirus 1</i>	New species	[32]
Unassigned	Polyomaviridae		<i>Alphapolyomavirus</i>	<i>Ptilocolobus badius polyomavirus 1</i>	New species	[32]
Unassigned	Polyomaviridae		<i>Gammapolyomavirus</i>	<i>Lonchura maja polyomavirus 1</i>	New species	[32]
Unassigned	Polyomaviridae		<i>Gammapolyomavirus</i>	<i>Erythrura gouldiae polyomavirus 1</i>	New species	[32]

Table 2 (continued)

Order	Family	Subfamily (blank = unassigned)	Genus	Species	Taxonomic change	References
Unassigned	Polyomaviridae		unassigned	<i>Trematomus pennellii polyomavirus 1</i>	New species	[32]
Unassigned	Baculoviridae		Betabaculovirus	<i>Chaphalocrocis medinalis granulovirus</i>	New species	[33]
Unassigned	Baculoviridae		Betabaculovirus	<i>Mythinna unipuncta granulovirus A</i>	Rename species (previous name: <i>Pseudalattia unipuncta granulovirus</i>)	[33]
Unassigned	Baculoviridae		Betabaculovirus	<i>Mythinna unipuncta granulovirus B</i>	New species	[33]
Unassigned	Circoviridae		Circovirus	<i>Porcine circovirus 3</i>	New species	[34]
Unassigned	Circoviridae		Circovirus	<i>Bat associated circovirus 9</i>	New species	[34]
Unassigned	Circoviridae		Cyclovirus	<i>Mouse associated cyclovirus 1</i>	New species	[34]
Unassigned	Circoviridae		Cyclovirus	<i>Human associated cyclovirus 12</i>	New species	[34]
Unassigned	Papillomaviridae	Firstpapillomavirinae			New subfamily	[35]
Unassigned	Papillomaviridae	Firstpapillomavirinae	Alphapapillomavirus		Assign genus and constituent species (<i>Alphapapillomavirus 1</i> to <i>Alphapapillomavirus 14</i> , inclusive) to new subfamily	[35]
Unassigned	Papillomaviridae	Firstpapillomavirinae	Betapapillomavirus		Assign genus and constituent species (<i>Betapapillomavirus 1</i> to <i>Betapapillomavirus 6</i> , inclusive) to new subfamily	[35]
Unassigned	Papillomaviridae	Firstpapillomavirinae	Chipapillomavirus		Assign genus and constituent species (<i>Chipapillomavirus 1</i> , <i>Chipapillomavirus 2</i> , <i>Chipapillomavirus 3</i>) to new subfamily	[35]
Unassigned	Papillomaviridae	Firstpapillomavirinae	Deltapapillomavirus		Assign genus and constituent species (<i>Deltapapillomavirus 1</i> to <i>Deltapapillomavirus 6</i> , inclusive) to new subfamily	[35]
Unassigned	Papillomaviridae	Firstpapillomavirinae	Dyochipapillomavirus		Assign genus and constituent species (<i>Dyochipapillomavirus 1</i>) to new subfamily	[35]
Unassigned	Papillomaviridae	Firstpapillomavirinae	Dyodeltapapillomavirus		Assign genus and constituent species (<i>Dyodeltapapillomavirus 1</i>) to new subfamily	[35]
Unassigned	Papillomaviridae	Firstpapillomavirinae	Dyoepsilontapillomavirus		Assign genus and constituent species (<i>Dyoepsilontapillomavirus 1</i>) to new subfamily	[35]
Unassigned	Papillomaviridae	Firstpapillomavirinae	Dyoetapapillomavirus		Assign genus and constituent species (<i>Dyoetapapillomavirus 1</i>) to new subfamily	[35]
Unassigned	Papillomaviridae	Firstpapillomavirinae	Dyototapapillomavirus		Assign genus and constituent species (<i>Dyototapapillomavirus 1</i> , <i>Dyototapapillomavirus 2</i>) to new subfamily	[35]
Unassigned	Papillomaviridae	Firstpapillomavirinae	Dyokappapapillomavirus		Assign genus and constituent species (<i>Dyokappapapillomavirus 1</i> , <i>Dyokappapapillomavirus 2</i>) to new subfamily	[35]
Unassigned	Papillomaviridae	Firstpapillomavirinae	Dyolambdapapillomavirus		Assign genus and constituent species (<i>Dyolambdapapillomavirus 1</i>) to new subfamily	[35]
Unassigned	Papillomaviridae	Firstpapillomavirinae	Dyomupapillomavirus		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	Papillomaviridae	Firstpapillomavirinae	<i>Dyonupapillomavirus</i>		Assign genus and constituent species (<i>Dyonupapillomavirus</i> 1) to new subfamily	[35]
Unassigned	Papillomaviridae	Firstpapillomavirinae	<i>Dyomegapapillomavirus</i>		Assign genus and constituent species (<i>Dyomegapapillomavirus</i> 1) to new subfamily	[35]
Unassigned	Papillomaviridae	Firstpapillomavirinae	<i>Dyoomikronpapillomavirus</i>		Assign genus and constituent species (<i>Dyoomikronpapillomavirus</i> 1) to new subfamily	[35]
Unassigned	Papillomaviridae	Firstpapillomavirinae	<i>Dyophilapapillomavirus</i>		Assign genus and constituent species (<i>Dyophilapapillomavirus</i> 1) to new subfamily	[35]
Unassigned	Papillomaviridae	Firstpapillomavirinae	<i>Dyopipapillomavirus</i>		Assign genus and constituent species (<i>Dyopipapillomavirus</i> 1) to new subfamily	[35]
Unassigned	Papillomaviridae	Firstpapillomavirinae	<i>Dyopsipapillomavirus</i>		Assign genus and constituent species (<i>Dyopsipapillomavirus</i> 1) to new subfamily	[35]
Unassigned	Papillomaviridae	Firstpapillomavirinae	<i>Dyohopapillomavirus</i>		Assign genus and constituent species (<i>Dyohopapillomavirus</i> 1) to new subfamily	[35]
Unassigned	Papillomaviridae	Firstpapillomavirinae	<i>Dyosigemapapillomavirus</i>		Assign genus and constituent species (<i>Dyosigemapapillomavirus</i> 1) to new subfamily	[35]
Unassigned	Papillomaviridae	Firstpapillomavirinae	<i>Dyotapapillomavirus</i>		Assign genus and constituent species (<i>Dyotapapillomavirus</i> 1) to new subfamily	[35]
Unassigned	Papillomaviridae	Firstpapillomavirinae	<i>Dyohetapapillomavirus</i>		Assign genus and constituent species (<i>Dyohetapapillomavirus</i> 1) to new subfamily	[35]
Unassigned	Papillomaviridae	Firstpapillomavirinae	<i>Dyousilontapapillomavirus</i>		Assign genus and constituent species (<i>Dyousilontapapillomavirus</i> 1) to new subfamily	[35]
Unassigned	Papillomaviridae	Firstpapillomavirinae	<i>Dyoxipapillomavirus</i>		Assign genus and constituent species (<i>Dyoxipapillomavirus</i> 1) to new subfamily	[35]
Unassigned	Papillomaviridae	Firstpapillomavirinae	<i>Dyozetapapillomavirus</i>		Assign genus and constituent species (<i>Dyozetapapillomavirus</i> 1) to new subfamily	[35]
Unassigned	Papillomaviridae	Firstpapillomavirinae	<i>Epsilontapapillomavirus</i>		Assign genus and constituent species (<i>Epsilontapapillomavirus</i> 1) to new subfamily	[35]
Unassigned	Papillomaviridae	Firstpapillomavirinae	<i>Etapapillomavirus</i>		Assign genus and constituent species (<i>Etapapillomavirus</i> 1) to new subfamily	[35]
Unassigned	Papillomaviridae	Firstpapillomavirinae	<i>Gammatapapillomavirus</i>		Assign genus and constituent species (<i>Gammatapapillomavirus</i> 1 to <i>Gammatapapillomavirus</i> 26, inclusive) to new subfamily	[35]
Unassigned	Papillomaviridae	Firstpapillomavirinae	<i>Lotatapapillomavirus</i>		Assign genus and constituent species (<i>Lotatapapillomavirus</i> 1) to new subfamily	[35]
Unassigned	Papillomaviridae	Firstpapillomavirinae	<i>Kappatapapillomavirus</i>		Assign genus and constituent species (<i>Kappatapapillomavirus</i> 1, <i>Kappatapapillomavirus</i> 2) to new subfamily	[35]

Table 2 (continued)

Order	Family	Subfamily (blank = unassigned)	Genus	Species	Taxonomic change	References
Unassigned	Papillomaviridae	Firstpapillomavirinae	<i>Lambdapapillomavirus</i>		Assign genus and constituent species (<i>Lambdapapillomavirus 1</i> to <i>Lambdapapillomavirus 5</i> , inclusive) to new subfamily	[35]
Unassigned	Papillomaviridae	Firstpapillomavirinae	<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	Firstpapillomavirinae	<i>Nupapillomavirus</i>		Assign genus and constituent species (<i>Nupapillomavirus 1</i>) to new subfamily	[35]
Unassigned	Papillomaviridae	Firstpapillomavirinae	<i>Omegapapillomavirus</i>		Assign genus and constituent species (<i>Omegapapillomavirus 1</i>) to new subfamily	[35]
Unassigned	Papillomaviridae	Firstpapillomavirinae	<i>Omikronpapillomavirus</i>		Assign genus and constituent species (<i>Omikronpapillomavirus 1</i>) to new subfamily	[35]
Unassigned	Papillomaviridae	Firstpapillomavirinae	<i>Phipapillomavirus</i>		Assign genus and constituent species (<i>Phipapillomavirus 1</i>) to new subfamily	[35]
Unassigned	Papillomaviridae	Firstpapillomavirinae	<i>Pipapillomavirus</i>		Assign genus and constituent species (<i>Pipapillomavirus 1</i> , <i>Pipapillomavirus 2</i>) to new subfamily	[35]
Unassigned	Papillomaviridae	Firstpapillomavirinae	<i>Psipapillomavirus</i>		Assign genus and constituent species (<i>Psipapillomavirus 1</i>) to new subfamily	[35]
Unassigned	Papillomaviridae	Firstpapillomavirinae	<i>Rhopapillomavirus</i>		Assign genus and constituent species (<i>Rhopapillomavirus 1</i> , <i>Rhopapillomavirus 2</i>) to new subfamily	[35]
Unassigned	Papillomaviridae	Firstpapillomavirinae	<i>Sigmopapillomavirus</i>		Assign genus and constituent species (<i>Sigmopapillomavirus 1</i>) to new subfamily	[35]
Unassigned	Papillomaviridae	Firstpapillomavirinae	<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	Firstpapillomavirinae	<i>Thetapapillomavirus</i>		Assign genus and constituent species (<i>Thetapapillomavirus 1</i>) to new subfamily	[35]
Unassigned	Papillomaviridae	Firstpapillomavirinae	<i>Treisidelpapillomavirus</i>		Assign genus and constituent species (<i>Treisidelpapillomavirus 1</i>) to new subfamily	[35]
unassigned	Papillomaviridae	Firstpapillomavirinae	<i>Treisepsilopapillomavirus</i>		Assign genus and constituent species (<i>Treisepsilopapillomavirus 1</i>) to new subfamily	[35]
Unassigned	Papillomaviridae	Firstpapillomavirinae	<i>Treisetapapillomavirus</i>		Assign genus and constituent species (<i>Treisetapapillomavirus 1</i>) to new subfamily	[35]
Unassigned	Papillomaviridae	Firstpapillomavirinae	<i>Treiszetapapillomavirus</i>		Assign genus and constituent species (<i>Treiszetapapillomavirus 1</i>) to new subfamily	[35]
Unassigned	Papillomaviridae	Firstpapillomavirinae	<i>Upsilopapillomavirus</i>		Assign genus and constituent species (<i>Upsilopapillomavirus 1</i> , <i>Upsilopapillomavirus 2</i> , <i>Upsilopapillomavirus 3</i>) to new subfamily	[35]
Unassigned	Papillomaviridae	Firstpapillomavirinae	<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	Papillomaviridae	Firstpapillomavirinae	Zetapapillomavirus		Assign genus and constituent species (<i>Zeta-papillomavirus 1</i>) to new subfamily	[35]
Unassigned	Papillomaviridae	Firstpapillomavirinae	Gammapapillomavirus	Gammapapillomavirus 27	New species	[35]
Unassigned	Papillomaviridae	Firstpapillomavirinae	Treisthetapapillomavirus		New genus	[35]
Unassigned	Papillomaviridae	Firstpapillomavirinae	Treisthetapapillomavirus	Treisthetapapillomavirus 1	New (type) species	[35]
Unassigned	Papillomaviridae	Firstpapillomavirinae	Psipapillomavirus	Psipapillomavirus 2	New species	[35]
Unassigned	Papillomaviridae	Firstpapillomavirinae	Psipapillomavirus	Psipapillomavirus 3	New species	[35]
Unassigned	Papillomaviridae	Firstpapillomavirinae	Epsilopapillomavirus	Epsilopapillomavirus 2	New species	[35]
Unassigned	Papillomaviridae	Firstpapillomavirinae	Iotapapillomavirus	Iotapapillomavirus 2	New species	[35]
Unassigned	Papillomaviridae	Firstpapillomavirinae	Treistotapapillomavirus		New genus	[35]
Unassigned	Papillomaviridae	Firstpapillomavirinae	Treistotapapillomavirus	Treistotapapillomavirus 1	New (type) species	[35]
Unassigned	Papillomaviridae	Firstpapillomavirinae	Taupapillomavirus	Taupapillomavirus 4	New species	[35]
Unassigned	Papillomaviridae	Firstpapillomavirinae	Dyokappapapillomavirus	Dyokappapapillomavirus 3	New species	[35]
Unassigned	Papillomaviridae	Firstpapillomavirinae	Xipapillomavirus	Xipapillomavirus 4	New species	[35]
Unassigned	Papillomaviridae	Firstpapillomavirinae	Dyokappapapillomavirus	Dyokappapapillomavirus 4	New species	[35]
Unassigned	Papillomaviridae	Firstpapillomavirinae	Dyoxipapillomavirus	Dyoxipapillomavirus 2	New species	[35]
Unassigned	Papillomaviridae	Firstpapillomavirinae	Treiskappapapillomavirus		New genus	[35]
Unassigned	Papillomaviridae	Firstpapillomavirinae	Treiskappapapillomavirus	Treiskappapapillomavirus 1	New (type) species	[35]
Unassigned	Papillomaviridae	Firstpapillomavirinae	Xipapillomavirus	Xipapillomavirus 5	New species	[35]
Unassigned	Papillomaviridae	Firstpapillomavirinae	Dyokappapapillomavirus	Dyokappapapillomavirus 5	New species	[35]
Unassigned	Papillomaviridae	Firstpapillomavirinae	Deltapapillomavirus	Deltapapillomavirus 7	New species	[35]
Unassigned	Papillomaviridae	Secondpapillomavirinae			New subfamily	[35]
Unassigned	Papillomaviridae	Secondpapillomavirinae	Alefpapillomavirus		New genus	[35]
Unassigned	Papillomaviridae	Secondpapillomavirinae	Alefpapillomavirus	Alefpapillomavirus 1	New (type) species	[35]
Unassigned	Smacoviridae		Bovismacovirus		New family	[36]
Unassigned	Smacoviridae		Bovismacovirus		New genus	[36]
Unassigned	Smacoviridae		Bovismacovirus	Bovine associated bovismacovirus 1	New (type) species	[36]
Unassigned	Smacoviridae		Bovismacovirus	Bovine associated bovismacovirus 2	New species	[36]
Unassigned	Smacoviridae		Bovismacovirus	Dragonfly associated bovismacovirus 1	New species	[36]
Unassigned	Smacoviridae		Drosmacovirus		New genus	[36]
Unassigned	Smacoviridae		Drosmacovirus	Camel associated drosmacovirus 1	New (type) species	[36]
Unassigned	Smacoviridae		Drosmacovirus	Bovine associated drosmacovirus 1	New species	[36]
Unassigned	Smacoviridae		Drosmacovirus	Camel associated drosmacovirus 2	New species	[36]
Unassigned	Smacoviridae		Huchismacovirus		New genus	[36]
Unassigned	Smacoviridae		Huchismacovirus	Bovine associated huchismacovirus 1	New species	[36]
Unassigned	Smacoviridae		Huchismacovirus	Chicken associated huchismacovirus 1	New species	[36]
Unassigned	Smacoviridae		Huchismacovirus	Human associated huchismacovirus 1	New (type) species	[36]
Unassigned	Smacoviridae		Huchismacovirus	Chicken associated huchismacovirus 2	New species	[36]
Unassigned	Smacoviridae		Huchismacovirus	Human associated huchismacovirus 2	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]
Unassigned	<i>Smacoviridae</i>		<i>Batrachovirus</i>	<i>Ranid herpesvirus 3</i>	New species	[37]
<i>Herpesvirales</i>	<i>Alloherpesviridae</i>				New order	[38]
<i>Orterivirales</i>	<i>Belpaoviridae</i>				Assign new family proposed in ref [26] to new order	[38]
<i>Orterivirales</i>	<i>Caulimoviridae</i>				Assign family to new order	[38]

Table 2 (continued)

Order	Family	Subfamily (blank = unassigned)	Genus	Species	Taxonomic change	References
Ortervirales	<i>Metaviridae</i>				Assign family to new order	[38]
Ortervirales	<i>Pseudoviridae</i>				Assign family to new order	[38]
Ortervirales	<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>Avidenovirus</i>	<i>Psittacine avidenovirus B</i>	New species	[39]
Unassigned	<i>Adenoviridae</i>		<i>Avidenovirus</i>	<i>Pigeon avidenovirus B</i>	New species	[39]
Unassigned	<i>Hepadnaviridae</i>		<i>Unassigned</i>	<i>Bluegill hepatitis B virus</i>	New species	[40]
Unassigned	<i>Hepadnaviridae</i>		<i>Unassigned</i>	<i>Tibetan frog hepatitis B virus</i>	New species	[40]
Unassigned	<i>Adenoviridae</i>		<i>Adenovirus</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 salsgineum 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>		Newgenus	[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>Acholeplasma virus L51</i>	Rename species (previous name: <i>Acholeplasma virus MV-L51</i>)	[43]
Unassigned	<i>Arenaviridae</i>		<i>Mammarenavirus</i>	<i>Serra do Navio mammarenavirus</i>	Rename species (previous name: <i>Anapari mammarenavirus</i>)	[43]
Unassigned	<i>Luteoviridae</i>		<i>Unassigned</i>	<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	<i>Barley yellow dwarf virus kerIII</i>	Rename species (previous name: <i>Barley yellow dwarf virus-kerIII</i>)	[43]
Unassigned	Luteoviridae		Luteovirus	<i>Barley yellow dwarf virus MAV</i>	Rename species (previous name: <i>Barley yellow dwarf virus-MAV</i>)	[43]
Unassigned	Luteoviridae		Luteovirus	<i>Barley yellow dwarf virus PAS</i>	Rename species (previous name: <i>Barley yellow dwarf virus-PAS</i>)	[43]
Unassigned	Luteoviridae		Luteovirus	<i>Barley yellow dwarf virus PAV</i>	Rename species (previous name: <i>Barley yellow dwarf virus-PAV</i>)	[43]
Unassigned	Luteoviridae		Unassigned	<i>Barley yellow dwarf virus SCV</i>	Rename species (previous name: <i>Barley yellow dwarf virus-SGV</i>)	[43]
Unassigned	Luteoviridae		Polerovirus	<i>Cereal yellow dwarf virus RPS</i>	Rename species (previous name: <i>Barley yellow dwarf virus-RPS</i>)	[43]
Unassigned	Luteoviridae		Polerovirus	<i>Cereal yellow dwarf virus RPV</i>	Rename species (previous name: <i>Barley yellow dwarf virus-RPV</i>)	[43]
Picornavirales	Unassigned		Bacillarnavirus	<i>Chaetoceros socialis forma radians RNA virus I</i>	Rename species (previous name: <i>Chaetoceros socialis f. radians RNA virus O1</i>)	[43]
Unassigned	Polydnaviridae		Bracovirus	<i>Chelonus near curvumaculatus bracovirus</i>	Rename species (previous name: <i>Chelonus nr. curvumaculatus bracovirus</i>)	[43]
Nidovirales	Arteriviridae		Sinartevirus	<i>DeBrazza monkey arterivirus</i>	Rename species (previous name: <i>DeBrazza's monkey arterivirus</i>)	[43]
Unassigned	Metaviridae		Errantivirus	<i>Drosophila melanogaster 17-6 virus</i>	Rename species (previous name: <i>Drosophila melanogaster 17.6 virus</i>)	[43]
Unassigned	Partitiviridae		Unassigned	<i>Gaeumannomyces graminis virus O196A</i>	Rename species (previous name: <i>Gaeumannomyces graminis virus O196-A</i>)	[43]
Unassigned	Partitiviridae		Unassigned	<i>Gaeumannomyces graminis virus T1A</i>	Rename species (previous name: <i>Gaeumannomyces graminis virus T1-A</i>)	[43]
Picornavirales	Dicistroviridae		Triatovirus	<i>Homalodisca coagulata virus 1</i>	Rename species (previous name: <i>Homalodisca coagulata virus-1</i>)	[43]
unassigned	Arenaviridae		Mammarenavirus	<i>Argentinian mammarenavirus</i>	Rename species (previous name: <i>Junin mammarenavirus</i>)	[43]
Tymovirales	Betaflexiviridae	Quinvirinae	Carlavirus	<i>Kalanchoe latent virus</i>	Rename species (previous name: <i>Kalanchoe latent virus</i>)	[43]
Unassigned	Potyviridae		Potyvirus	<i>Kalanchoe mosaic virus</i>	Rename species (previous name: <i>Kalanchoe mosaic virus</i>)	[43]
Unassigned	Caulimoviridae		Badnavirus	<i>Kalanchoe top-spotting virus</i>	Rename species (previous name: <i>Kalanchoe top-spotting virus</i>)	[43]
Unassigned	Luteoviridae		Polerovirus	<i>Maize yellow dwarf virus RMV</i>	Rename species (previous name: <i>Maize yellow dwarf virus-RMV</i>)	[43]
Unassigned	Poxviridae	Entomopoxvirinae	Unassigned	<i>Melanoplus sanguinipes entomopoxvirus</i>	Rename species (previous name: <i>Melanoplus sanguinipes entomopoxvirus 'O'</i>)	[43]
Unassigned	Caliciviridae		Nebovirus	<i>Newbury 1 virus</i>	Rename species (previous name: <i>Newbury-1 virus</i>)	[43]
Unassigned	Togaviridae		Alphavirus	<i>Onyong-nyong virus</i>	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 cyano-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>Sommons'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 1</i>	Rename species (previous name: <i>Solenopsis invicta virus-1</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 1</i>	Rename species (previous name: <i>Varroa destructor virus-1</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 Stc4 virus</i>	Rename species (previous name: <i>Zea mays Stc-4 virus</i>)	[43]
Unassigned					See TP List for proposed change to ICVCN	[44]
Unassigned	Arenaviridae		Hartmanivirus		New genus	[45]
Unassigned	Arenaviridae		Hartmanivirus	Hartman hartmanivirus	New (type) species	[45]
Unassigned	Arenaviridae		Mammarenavirus	Ryukyu mammarenavirus	New species	[46]
Unassigned	Arenaviridae		Mammarenavirus	Souris mammarenavirus	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
Mononegavirales	Bornaviridae		Orthobornavirus	<i>Mammalian 2 orthobornavirus</i>	Rename species (previous name: <i>Mammalian 2 bornavirus</i>)	[48]
Mononegavirales	Bornaviridae		Orthobornavirus	<i>Passeriform 1 orthobornavirus</i>	Rename species (previous name: <i>Passeriform 1 bornavirus</i>)	[48]
Mononegavirales	Bornaviridae		Orthobornavirus	<i>Passeriform 2 orthobornavirus</i>	Rename species (previous name: <i>Passeriform 2 bornavirus</i>)	[48]
Mononegavirales	Bornaviridae		Orthobornavirus	<i>Psittaciform 1 orthobornavirus</i>	Rename species (previous name: <i>Psittaciform 1 bornavirus</i>)	[48]
Mononegavirales	Bornaviridae		Orthobornavirus	<i>Psittaciform 2 orthobornavirus</i>	Rename species (previous name: <i>Psittaciform 2 bornavirus</i>)	[48]
Mononegavirales	Bornaviridae		Orthobornavirus	<i>Waterbird 1 orthobornavirus</i>	Rename species (previous name: <i>Waterbird 1 bornavirus</i>)	[48]
Mononegavirales	Bornaviridae		Carbovirus		New genus	[49]
Mononegavirales	Bornaviridae		Carbovirus	<i>Queenstand carbovirus</i>	New (type) species	[49]
Mononegavirales	Bornaviridae		Carbovirus	<i>Southwest carbovirus</i>	New species	[49]
Bunyavirales	Peribunyaviridae		Orthobunyavirus	<i>Wolkberg orthobunyavirus</i>	New species	[50]
Bunyavirales	Nairoviridae		Orthonaivirus	<i>Ariashat orthonaivirus</i>	New species	[51]
Bunyavirales	Nairoviridae		Orthonaivirus	<i>Tandy orthonaivirus</i>	Rename species (previous name: <i>Burana orthonaivirus</i>)	[51]
Bunyavirales	Nairoviridae		Orthonaivirus	<i>Chin orthonaivirus</i>	New species	[51]
Mononegavirales	Rhabdoviridae		Ledantevirus	<i>Kanyawara ledantevirus</i>	New species	[52]
Mononegavirales	Paramyxoviridae		Avulavirus	<i>Avian avulavirus 14</i>	New species	[53]
Mononegavirales	Paramyxoviridae		Avulavirus	<i>Avian avulavirus 15</i>	New species	[53]
Mononegavirales	Paramyxoviridae		Avulavirus	<i>Avian avulavirus 16</i>	New species	[53]
Mononegavirales	Paramyxoviridae		Avulavirus	<i>Avian avulavirus 17</i>	New species	[53]
Mononegavirales	Paramyxoviridae		Avulavirus	<i>Avian avulavirus 18</i>	New species	[53]
Mononegavirales	Paramyxoviridae		Avulavirus	<i>Avian avulavirus 19</i>	New species	[53]
Unassigned	Orthomyxoviridae		Alphainfluenzavirus		Rename genus (previous name: <i>Influenza-virus A</i>)	[54]
Unassigned	Orthomyxoviridae		Betainfluenzavirus		Rename genus (previous name: <i>Influenza-virus B</i>)	[54]
Unassigned	Orthomyxoviridae		Gammainfluenzavirus		Rename genus (previous name: <i>Influenza-virus C</i>)	[54]
Unassigned	Orthomyxoviridae		Deltainfluenzavirus		Rename genus (previous name: <i>Influenza-virus D</i>)	[54]
Unassigned	Orthomyxoviridae		Isavirus	<i>Salmon isavirus</i>	Rename species (previous name: <i>Infectious salmon anemia virus</i>)	[54]
Unassigned	Orthomyxoviridae		Quarantivirus	<i>Johnston Atoll quarantivirus</i>	Rename species (previous name: <i>Johnston Atoll virus</i>)	[54]
Unassigned	Orthomyxoviridae		Quarantivirus	<i>Quarantivirus</i>	Rename species (previous name: <i>Quarantivirus</i>)	[54]
Unassigned	Orthomyxoviridae		Thogotovirus	<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	Orthomyxoviridae		<i>Thogotovirus</i>	<i>Thogoto thogotovirus</i>	Rename species (previous name: <i>Thogoto virus</i>)	[54]
Mononegavirales	Rhabdoviridae		<i>Lyssavirus</i>	Gammorua bat lyssavirus	New species	[55]
Mononegavirales	Rhabdoviridae		<i>Lyssavirus</i>	Lleida bat lyssavirus	New species	[56]
Unassigned	Arenaviridae		<i>Reptarenavirus</i>	<i>Golden reptarenavirus</i>	Rename species (previous name: <i>Alethinophid 1 reptarenavirus</i>)	[57]
Unassigned	Arenaviridae		<i>Reptarenavirus</i>	<i>California reptarenavirus</i>	Rename species (previous name: <i>Alethinophid 2 reptarenavirus</i>)	[57]
Unassigned	Arenaviridae		<i>Reptarenavirus</i>	<i>Rotterdam reptarenavirus</i>	Rename species (previous name: <i>Alethinophid 3 reptarenavirus</i>)	[57]
Unassigned	Arenaviridae		<i>Reptarenavirus</i>	Ordinary reptarenavirus	New species	[57]
Unassigned	Arenaviridae		<i>Reptarenavirus</i>	Giessen reptarenavirus	New species	[57]
Unassigned	Reoviridae		<i>Orthoreovirus</i>	Mahlapisi orthoreovirus	New species	[58]
Mononegavirales	Rhabdoviridae	Spinareovirinae	<i>Tibrovirus</i>	Beatrice Hill tibrovirus	New species	[59]
Unassigned	Polyviridae		Roymovirus		New genus	[60]
Unassigned	Polyviridae		Roymovirus	<i>Rose yellow mosaic virus</i>	Species assigned as type species of new genus	[60]
Unassigned	Polyviridae		Bevemovirus		New genus	[60]
Unassigned	Polyviridae		Bevemovirus	Bellflower veinal mottle virus	New (type) species	[60]
Unassigned	Aspiviridae				Rename family (previous name: <i>Ophioviridae</i>)	[61]
Unassigned	Aspiviridae		<i>Ophiovirus</i>	<i>Blueberry mosaic associated ophiovirus</i>	Rename species (previous name: <i>Blueberry mosaic associated virus</i>)	[61]
Unassigned	Aspiviridae		<i>Ophiovirus</i>	<i>Citrus psorosis ophiovirus</i>	Rename species (previous name: <i>Citrus psorosis virus</i>)	[61]
Unassigned	Aspiviridae		<i>Ophiovirus</i>	<i>Freesia sneek ophiovirus</i>	Rename species (previous name: <i>Freesia sneek virus</i>)	[61]
Unassigned	Aspiviridae		<i>Ophiovirus</i>	<i>Lettuce ring necrosis ophiovirus</i>	Rename species (previous name: <i>Lettuce ring necrosis virus</i>)	[61]
Unassigned	Aspiviridae		<i>Ophiovirus</i>	<i>Mirafiori lettuce big-vein ophiovirus</i>	Rename species (previous name: <i>Mirafiori lettuce big-vein virus</i>)	[61]
Unassigned	Aspiviridae		<i>Ophiovirus</i>	<i>Ranunculus white mottle ophiovirus</i>	Rename species (previous name: <i>Ranunculus white mottle virus</i>)	[61]
Unassigned	Aspiviridae		<i>Ophiovirus</i>	<i>Tulip mild mottle mosaic ophiovirus</i>	Rename species (previous name: <i>Tulip mild mottle mosaic virus</i>)	[61]
Unassigned	Solemoviridae		<i>Sobemovirus</i>		New family	[62]
Unassigned	Solemoviridae				Assign genus (and constituent species) to new family	[62]
Unassigned	Solemoviridae		<i>Polemovirus</i>		Assign genus (and constituent species) to new family	[62]
Unassigned	Alphasatellitidae				New family	[63]
Unassigned	Alphasatellitidae	Geminialphasatellitinae			New subfamily	[63]
Unassigned	Alphasatellitidae	Geminialphasatellitinae	Ageyisatellite		New genus	[63]

Table 2 (continued)

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

Table 2 (continued)

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

Table 2 (continued)

Order	Family	Subfamily (blank = unassigned)	Genus	Species	Taxonomic change	References
<i>Picornavirales</i>	<i>Secoviridae</i>		unassigned	<i>Dioscorea mosaic associated virus</i>	New species	[64]
Unassigned	<i>Polyviridae</i>		<i>Ipomovirus</i>	<i>Coccinia mottle virus</i>	New species	[65]
Unassigned	<i>Polyviridae</i>		<i>Polyvirus</i>	<i>Barbacena virus Y</i>	New species	[65]
Unassigned	<i>Polyviridae</i>		<i>Polyvirus</i>	<i>Callistephus mottle virus</i>	New species	[65]
Unassigned	<i>Polyviridae</i>		<i>Polyvirus</i>	<i>Daphne virus Y</i>	New species	[65]
Unassigned	<i>Polyviridae</i>		<i>Polyvirus</i>	<i>Impatiens flower break virus</i>	New species	[65]
Unassigned	<i>Polyviridae</i>		<i>Polyvirus</i>	<i>Pecan mosaic-associated virus</i>	New species	[65]
Unassigned	<i>Polyviridae</i>		<i>Polyvirus</i>	<i>Sunflower ring blotch virus</i>	New species	[65]
Unassigned	<i>Polyviridae</i>		<i>Polyvirus</i>	<i>Tobacco mosquedo virus</i>	New species	[65]
Unassigned	<i>Polyviridae</i>		<i>Polyvirus</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 I</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>Cnidocolus 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>Macropitium bright mosaic virus</i>	New species	[68]
Unassigned	<i>Geminiviridae</i>		<i>Begomovirus</i>	<i>Macropitium 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 Guyana 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	Whitefly-associated begomovirus 7	New species	[68]
Unassigned	Geminiviridae		Begomovirus	Vernonia erinkle virus	New species	[68]
Unassigned	Geminiviridae		Begomovirus	Vinca leaf curl virus	New species	[68]
Unassigned	Geminiviridae		Begomovirus	Wissadula yellow mosaic virus	New species	[68]
Unassigned	Geminiviridae		Begomovirus	Pedilanthus leaf curl virus	Rename species (previous name: <i>Pedilanthus leaf curl virus</i>)	[69]
Unassigned	Tolucasatellitidae		Betasatellite	Tomato leaf curl Java betasatellite	Rename species (previous name: <i>Tomato leaf curl Java virus betasatellite</i>)	[69]
Unassigned	Geminiviridae		Mastrevirus	Sporobolus striate mosaic virus 1	Rename species (previous name: <i>Sporobolus striate mosaic virus 1</i>)	[69]
Unassigned	Geminiviridae		Mastrevirus	Sporobolus striate mosaic virus 2	Rename species (previous name: <i>Sporobolus striate mosaic virus 2</i>)	[69]
Unassigned	Endornaviridae		Alphaendornavirus	Winged bean alphaendornavirus 1	New species	[70]
Unassigned	Endornaviridae		Betaendornavirus	Borlytis cinerea betaendornavirus 1	New species	[70]
Unassigned	Bromoviridae		Ilarvirus	Ageratum latent virus	New species	[71]
Unassigned	Bromoviridae		Ilarvirus	Privet ringspot virus	New species	[71]
Unassigned	Bromoviridae		Ilarvirus	Tomato necrotic streak virus	New species	[71]
Unassigned	Luteoviridae		Polerovirus	Maize yellow mosaic virus	New species	[72]
Unassigned	Luteoviridae		Polerovirus	Pepo aphid-borne yellows virus	New species	[73]
Unassigned	Caulimoviridae		Badnavirus	Cacao mild mosaic virus	New species	[74]
Unassigned	Caulimoviridae		Badnavirus	Cacao yellow vein banding virus	New species	[74]
Unassigned	Caulimoviridae		Badnavirus	Dioscorea bacilliform RT virus 1	New species	[74]
Unassigned	Caulimoviridae		Badnavirus	Dioscorea bacilliform RT virus 2	New species	[74]
Unassigned	Caulimoviridae		Badnavirus	Dioscorea bacilliform TR virus	New species	[74]
Unassigned	Caulimoviridae		Badnavirus	Wisteria badnavirus 1	New species	[74]
Unassigned	Closteroviridae		Ampelovirus	Grapevine leafroll-associated virus 13	New species	[75]
Tymovirales	Tymoviridae		Marafivirus	Grapevine asteroid mosaic associated virus	New species	[76]
Tymovirales	Tymoviridae		Marafivirus	Peach marafivirus D	New species	[76]
Tymovirales	Deltaflexiviridae		Deltaflexivirus		New family	[77]
Tymovirales	Deltaflexiviridae		Deltaflexivirus	Sclerotinia deltaflexivirus 1	New genus	[77]
Tymovirales	Deltaflexiviridae		Deltaflexivirus	Soybean-associated deltaflexivirus 1	New (type) species	[77]
Tymovirales	Deltaflexiviridae		Deltaflexivirus	Fusarium deltaflexivirus 1	New species	[77]
Tymovirales	Deltaflexiviridae		Potexvirus	Actinidia virus X	New species	[78]
Tymovirales	Alphaflexiviridae		Potexvirus	Peaya virus X	New species	[78]
Tymovirales	Alphaflexiviridae		Potexvirus	Vanilla virus X	New species	[78]
Tymovirales	Alphaflexiviridae		Allexivirus	Blackberry virus E	Move species (previous position: <i>Tymovirales/Alphaflexiviridae/unassigned</i>)	[78]
Tymovirales	Alphaflexiviridae		Allexivirus	Arachis pinto virus	New species	[78]
Tymovirales	Alphaflexiviridae		Allexivirus	Alfalfa virus S	New species	[78]

Table 2 (continued)

Order	Family	Subfamily (blank = unassigned)	Genus	Species	Taxonomic change	References
<i>Tymovirales</i>	<i>Alphaflexiviridae</i>		<i>Allexivirus</i>	<i>Vanilla latent virus</i>	New species	[78]
<i>Tymovirales</i>	<i>Betaflexiviridae</i>	<i>Quinvirinae</i>	<i>Carlavirus</i>	<i>Yam latent virus</i>	New species	[78]
<i>Tymovirales</i>	<i>Betaflexiviridae</i>	<i>Quinvirinae</i>	<i>Carlavirus</i>	<i>Sambucus virus C</i>	New species	[78]
<i>Tymovirales</i>	<i>Betaflexiviridae</i>	<i>Quinvirinae</i>	<i>Carlavirus</i>	<i>Sambucus virus D</i>	New species	[78]
<i>Tymovirales</i>	<i>Betaflexiviridae</i>	<i>Quinvirinae</i>	<i>Carlavirus</i>	<i>Sambucus virus E</i>	New species	[78]
<i>Tymovirales</i>	<i>Betaflexiviridae</i>	<i>Quinvirinae</i>	<i>Carlavirus</i>	<i>Atractylodes mottle virus</i>	New species	[78]
<i>Tymovirales</i>	<i>Betaflexiviridae</i>	<i>Quinvirinae</i>	<i>Carlavirus</i>	<i>Ligustrum virus A</i>	New species	[78]
<i>Tymovirales</i>	<i>Betaflexiviridae</i>	<i>Quinvirinae</i>	<i>Foveavirus</i>	<i>Asian prunus virus 2</i>	New species	[78]
<i>Tymovirales</i>	<i>Betaflexiviridae</i>	<i>Trivirinae</i>	<i>Vivivirus</i>	<i>Arracacha virus Y</i>	New species	[78]
<i>Picornavirales</i>	<i>Picornaviridae</i>		<i>Adivirus</i>		New genus	[79]
<i>Picornavirales</i>	<i>Picornaviridae</i>		<i>Adivirus</i>	<i>Adivirus A</i>	New (type) species	[79]
<i>Picornavirales</i>	<i>Picornaviridae</i>		<i>Bopivirus</i>		New genus	[80]
<i>Picornavirales</i>	<i>Picornaviridae</i>		<i>Bopivirus</i>	<i>Bopivirus A</i>	New (type) species	[80]
<i>Picornavirales</i>	<i>Picornaviridae</i>		<i>Crohivirus</i>		New genus	[81]
<i>Picornavirales</i>	<i>Picornaviridae</i>		<i>Crohivirus</i>	<i>Crohivirus A</i>	New species	[81]
<i>Picornavirales</i>	<i>Picornaviridae</i>		<i>Crohivirus</i>	<i>Crohivirus B</i>	New (type) species	[81]
<i>Picornavirales</i>	<i>Picornaviridae</i>		<i>Crohivirus</i>	<i>Enterovirus K</i>	New species	[82]
<i>Picornavirales</i>	<i>Picornaviridae</i>		<i>Enterovirus</i>	<i>Enterovirus L</i>	New species	[82]
<i>Picornavirales</i>	<i>Picornaviridae</i>		<i>Enterovirus</i>	<i>Enterovirus L</i>	New species	[82]
<i>Picornavirales</i>	<i>Picornaviridae</i>		<i>Kunsagivirus</i>	<i>Kunsagivirus B</i>	New species	[83]
<i>Picornavirales</i>	<i>Picornaviridae</i>		<i>Kunsagivirus</i>	<i>Kunsagivirus C</i>	New species	[83]
<i>Picornavirales</i>	<i>Picornaviridae</i>		<i>Megrivirus</i>	<i>Megrivirus A</i>	Rename (type) species (previous name: <i>Melegrivirus A</i>)	[84]
<i>Picornavirales</i>	<i>Picornaviridae</i>		<i>Megrivirus</i>	<i>Megrivirus B</i>	New species	[84]
<i>Picornavirales</i>	<i>Picornaviridae</i>		<i>Megrivirus</i>	<i>Megrivirus C</i>	New species	[84]
<i>Picornavirales</i>	<i>Picornaviridae</i>		<i>Megrivirus</i>	<i>Megrivirus D</i>	New species	[84]
<i>Picornavirales</i>	<i>Picornaviridae</i>		<i>Megrivirus</i>	<i>Megrivirus E</i>	New species	[84]
<i>Picornavirales</i>	<i>Picornaviridae</i>		<i>Orivirus</i>		New genus	[85]
<i>Picornavirales</i>	<i>Picornaviridae</i>		<i>Orivirus</i>	<i>Orivirus A</i>	New (type) species	[85]
<i>Picornavirales</i>	<i>Picornaviridae</i>		<i>Shanbavirus</i>		New genus	[86]
<i>Picornavirales</i>	<i>Picornaviridae</i>		<i>Shanbavirus</i>	<i>Shanbavirus A</i>	New (type) species	[86]
<i>Picornavirales</i>	<i>Picornaviridae</i>		<i>Pestivirus</i>	<i>Pestivirus A</i>	Rename (type) species (previous name: <i>Bovine viral diarrhoea virus 1</i>)	[87]
Unassigned	<i>Flaviviridae</i>		<i>Pestivirus</i>	<i>Pestivirus B</i>	Rename species (previous name: <i>Bovine viral diarrhoea virus 2</i>)	[87]
Unassigned	<i>Flaviviridae</i>		<i>Pestivirus</i>	<i>Pestivirus C</i>	Rename species (previous name: <i>Classical swine fever virus</i>)	[87]
Unassigned	<i>Flaviviridae</i>		<i>Pestivirus</i>	<i>Pestivirus D</i>	Rename species (previous name: <i>Border disease virus</i>)	[87]
Unassigned	<i>Flaviviridae</i>		<i>Pestivirus</i>	<i>Pestivirus E</i>	New species	[87]
Unassigned	<i>Flaviviridae</i>		<i>Pestivirus</i>	<i>Pestivirus F</i>	New species	[87]
Unassigned	<i>Flaviviridae</i>		<i>Pestivirus</i>	<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>		<i>Sopolyceivirus</i>		New family	[88]
<i>Picornavirales</i>	<i>Polycipiviridae</i>		<i>Sopolyceivirus</i>		New genus	[88]
<i>Picornavirales</i>	<i>Polycipiviridae</i>		<i>Sopolyceivirus</i>	<i>Solenopsis invicta virus 2</i>	nNew (type) species	[88]
<i>Picornavirales</i>	<i>Polycipiviridae</i>		<i>Sopolyceivirus</i>	<i>Solenopsis invicta virus 4</i>	New species	[88]
<i>Picornavirales</i>	<i>Polycipiviridae</i>		<i>Sopolyceivirus</i>	<i>Lasius niger virus 1</i>	New species	[88]
<i>Picornavirales</i>	<i>Polycipiviridae</i>		<i>Sopolyceivirus</i>	<i>Shuangao insect virus 8</i>	New species	[88]
<i>Picornavirales</i>	<i>Polycipiviridae</i>		<i>Sopolyceivirus</i>	<i>Myrmica scabrimodis virus 1</i>	New species	[88]
<i>Picornavirales</i>	<i>Polycipiviridae</i>		<i>Sopolyceivirus</i>	<i>Lasius neglectus virus 1</i>	New species	[88]
<i>Picornavirales</i>	<i>Polycipiviridae</i>		<i>Sopolyceivirus</i>	<i>Monomorium pharaonis virus 1</i>	New species	[88]
<i>Picornavirales</i>	<i>Polycipiviridae</i>		<i>Sopolyceivirus</i>	<i>Lasius neglectus virus 2</i>	New species	[88]
<i>Picornavirales</i>	<i>Polycipiviridae</i>		<i>Sopolyceivirus</i>	<i>Linepithema humile virus 2</i>	New species	[88]
<i>Picornavirales</i>	<i>Polycipiviridae</i>		<i>Sopolyceivirus</i>	<i>Monomorium pharaonis virus 2</i>	New species	[88]
<i>Picornavirales</i>	<i>Polycipiviridae</i>		<i>Sopolyceivirus</i>	<i>Formica exsecta virus 3</i>	New species	[88]
<i>Picornavirales</i>	<i>Polycipiviridae</i>		<i>Hupolyceivirus</i>		New genus	[88]
<i>Picornavirales</i>	<i>Polycipiviridae</i>		<i>Hupolyceivirus</i>	<i>Hubei hupolyceivirus</i>	New (type) species	[88]
<i>Picornavirales</i>	<i>Polycipiviridae</i>		<i>Chipolyceivirus</i>		New genus	[88]
<i>Picornavirales</i>	<i>Polycipiviridae</i>		<i>Chipolyceivirus</i>	<i>Chironomus riparius virus 1</i>	New (type) species	[88]
<i>Picornavirales</i>	<i>Polycipiviridae</i>		<i>Chipolyceivirus</i>	<i>Hubei chipolyceivirus</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/msl>.

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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.

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