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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	Limestonevirus	<i>Dickeya virus RC2014</i>	New species	[1]
Caudovirales	Ackermannviridae	Cvivirusinae			New subfamily	[1]
Caudovirales	Ackermannviridae	Cvivirusinae	Cha120virus		New genus	[1]
Caudovirales	Ackermannviridae	Cvivirusinae	Cha120virus	<i>Escherichia virus CBA120</i>	Move species to be type species (previous position: <i>Caudovirales/Myoviridae/Vi1virus</i>)	[1]
Caudovirales	Ackermannviridae	Cvivirusinae	Cha120virus		New species (previous position: <i>Caudovirales/Myoviridae/Vi1virus</i>)	[1]
Caudovirales	Ackermannviridae	Cvivirusinae	Cha120virus	<i>Salmonella virus SFP10</i>		[1]
Caudovirales	Ackermannviridae	Cvivirusinae	Cha120virus	<i>Salmonella virus GG32</i>	New species	[1]
Caudovirales	Ackermannviridae	Cvivirusinae	Cha120virus	<i>Escherichia virus Phaxd</i>	Move species (previous position: <i>Caudovirales/Myoviridae/Vi1virus</i>)	[1]
Caudovirales	Ackermannviridae	Cvivirusinae	Cha120virus	<i>Salmonella virus Da7</i>	Move species (previous position: <i>Caudovirales/Myoviridae/Vi1virus</i>)	[1]
Caudovirales	Ackermannviridae	Cvivirusinae	Cha120virus	<i>Salmonella virus SH19</i>	Move species (previous position: <i>Caudovirales/Myoviridae/Vi1virus</i>)	[1]
Caudovirales	Ackermannviridae	Cvivirusinae	Cha120virus	<i>Salmonella virus 38</i>	New species	[1]
Caudovirales	Ackermannviridae	Cvivirusinae	Cha120virus	<i>Salmonella virus PM10</i>	New species	[1]
Caudovirales	Ackermannviridae	Cvivirusinae	Cha120virus	<i>Salmonella virus SJ3</i>	Move species	[1]
Caudovirales	Ackermannviridae	Cvivirusinae	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 STML131</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 MAMI</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		Alphaportoglobovirus		New family	[2]
Unassigned	Portogloboviridae		Alphaportoglobovirus		New genus	[2]
Unassigned	Portogloboviridae		Alphaportoglobovirus	<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	Chebravirinae			New subfamily	[4]
Caudovirales	Siphoviridae	Chebravirinae	<i>Che9cvirus</i>		Move genus (with constituent type species: <i>Mycobacterium virus Che9c</i>)	[4]
Caudovirales	Siphoviridae	Chebravirinae	<i>Che9cvirus</i>	<i>Mycobacterium virus Shash</i>	New species	[4]
Caudovirales	Siphoviridae	Chebravirinae	<i>Brajitavirus</i>		New genus	[4]
Caudovirales	Siphoviridae	Chebravirinae	<i>Brajitavirus</i>	<i>Mycobacterium virus Brajita</i>	Move species to be type species (previous position: <i>Caudovirales/Siphoviridae/Che9cvirus</i>)	[4]
Caudovirales	Siphoviridae	Chebravirinae	<i>Brajitavirus</i>	<i>Mycobacterium virus Babsiella</i>	Move species (previous position: <i>Caudovirales/Siphoviridae/Che9cvirus</i>)	[4]
Caudovirales	Siphoviridae		<i>Atisvirus</i>		New genus	[5]
Caudovirales	Siphoviridae		<i>Atisvirus</i>	<i>Gordonia virus Atis</i>	New (type) species	[5]
Caudovirales	Siphoviridae		<i>Doucectevirus</i>		New genus	[6]
Caudovirales	Siphoviridae		<i>Doucectevirus</i>	<i>Propionibacterium virus Doucette</i>	New (type) species	[6]
Caudovirales	Siphoviridae		<i>Doucectevirus</i>	<i>Propionibacterium virus B22</i>	New species	[6]
Caudovirales	Siphoviridae		<i>Doucectevirus</i>	<i>Propionibacterium virus E6</i>	New species	[6]
Caudovirales	Siphoviridae		<i>Doucectevirus</i>	<i>Propionibacterium virus G4</i>	New species	[6]
Caudovirales	Siphoviridae	Delasvirinae			New subfamily	[7]
Caudovirales	Siphoviridae	Delasvirinae	<i>Plotvirus</i>		New genus	[7]
Caudovirales	Siphoviridae	Delasvirinae	<i>Plotvirus</i>	<i>Mycobacterium virus Plot</i>	New (type) species	[7]
Caudovirales	Siphoviridae	Delasvirinae	<i>Hawkeyevirus</i>		New genus	[7]
Caudovirales	Siphoviridae	Delasvirinae	<i>Hawkeyevirus</i>	<i>Mycobacterium virus Hawkeye</i>	New (type) species	[7]
Caudovirales	Siphoviridae		<i>HK97virus</i>		New genus	[8]
Caudovirales	Siphoviridae		<i>HK97virus</i>	<i>Escherichia virus HK97</i>	Move species to be type species (previous position: <i>Caudovirales/Siphoviridae/Lambdavirus</i>)	[8]
Caudovirales	Siphoviridae		<i>HK97virus</i>	<i>Escherichia virus HK022</i>	Move species (previous position: <i>Caudovirales/Siphoviridae/Lambdavirus</i>)	[8]
Caudovirales	Siphoviridae		<i>HK97virus</i>	<i>Escherichia virus mEpX2</i>	New species	[8]
Caudovirales	Siphoviridae		<i>HK97virus</i>	<i>Escherichia virus HK542</i>	New species	[8]
Caudovirales	Siphoviridae		<i>HK97virus</i>	<i>Escherichia virus HK633</i>	New species	[8]
Caudovirales	Siphoviridae		<i>HK97virus</i>	<i>Escherichia virus HK106</i>	New species	[8]
Caudovirales	Siphoviridae		<i>HK97virus</i>	<i>Escherichia virus mEp234</i>	New species	[8]
Caudovirales	Siphoviridae		<i>HK97virus</i>	<i>Escherichia virus HK446</i>	New species	[8]
Caudovirales	Siphoviridae		<i>HK97virus</i>	<i>Escherichia virus HK544</i>	New species	[8]
Caudovirales	Siphoviridae		<i>HK97virus</i>	<i>Escherichia virus mEpX1</i>	New species	[8]
Caudovirales	Siphoviridae		<i>HK97virus</i>	<i>Escherichia virus HK75</i>	New species	[8]
Caudovirales	Siphoviridae	Mecleskeyvirinae			New subfamily	[9]

Table 2 (continued)

Order	Family	Subfamily (blank = unassigned)	Genus	Species	Taxonomic change	References
Caudovirales	Siphoviridae	Mecleskeyvirinae	<i>Una4virus</i>		New genus	[9]
Caudovirales	Siphoviridae	Mecleskeyvirinae	<i>Una4virus</i>	<i>Leuconostoc virus IA4</i>	New (type) species	[9]
Caudovirales	Siphoviridae	Mecleskeyvirinae	<i>Una4virus</i>	<i>Leuconostoc virus Ln9</i>	New species	[9]
Caudovirales	Siphoviridae	Mecleskeyvirinae	<i>Una4virus</i>	<i>Leuconostoc virus Ln8</i>	New species	[9]
Caudovirales	Siphoviridae	Mecleskeyvirinae	<i>Una4virus</i>	<i>Leuconostoc virus LN25</i>	New species	[9]
Caudovirales	Siphoviridae	Mecleskeyvirinae	<i>Una4virus</i>	<i>Leuconostoc virus LN34</i>	New species	[9]
Caudovirales	Siphoviridae	Mecleskeyvirinae	<i>Una4virus</i>	<i>Leuconostoc virus LNTR3</i>	New species	[9]
Caudovirales	Siphoviridae	Mecleskeyvirinae	<i>LmdIvirus</i>		New genus	[9]
Caudovirales	Siphoviridae	Mecleskeyvirinae	<i>LmdIvirus</i>	<i>Leuconostoc virus P793</i>	New species	[9]
Caudovirales	Siphoviridae	Mecleskeyvirinae	<i>LmdIvirus</i>	<i>Leuconostoc virus LN12</i>	New species	[9]
Caudovirales	Siphoviridae	Mecleskeyvirinae	<i>LmdIvirus</i>	<i>Leuconostoc virus LN03</i>	New species	[9]
Caudovirales	Siphoviridae	Mecleskeyvirinae	<i>LmdIvirus</i>	<i>Leuconostoc virus LN04</i>	New species	[9]
Caudovirales	Siphoviridae	Mecleskeyvirinae	<i>LmdIvirus</i>	<i>Leuconostoc virus LN6B</i>	New species	[9]
Caudovirales	Siphoviridae	Mecleskeyvirinae	<i>LmdIvirus</i>	<i>Leuconostoc virus Lmdl</i>	New (type) species	[9]
Caudovirales	Siphoviridae	Nelasvirinae			New subfamily	[10]
Caudovirales	Siphoviridae	Nelasvirinae	<i>Redivirus</i>		New genus	[10]
Caudovirales	Siphoviridae	Nelasvirinae	<i>Redivirus</i>	<i>Mycobacterium virus Redi</i>	Move species to be type species (previous position: <i>Caudovirales/Siphoviridae/Charlievirus</i>)	[10]
Caudovirales	Siphoviridae	Nelasvirinae	<i>Redivirus</i>	<i>Mycobacterium virus Panchino</i>	New species	[10]
Caudovirales	Siphoviridae	Nelasvirinae	<i>Redivirus</i>	<i>Mycobacterium virus Skinnyp</i>	New species	[10]
Caudovirales	Siphoviridae	Nelasvirinae	<i>Redivirus</i>	<i>Mycobacterium virus Phrann</i>	New species	[10]
Caudovirales	Siphoviridae	Nelasvirinae	<i>Charlievirus</i>		Move genus (with constituent species: <i>Mycobacterium virus Charlie</i>)	[10]
Caudovirales	Siphoviridae	Nelasvirinae	<i>Charlievirus</i>	<i>Mycobacterium virus Pipsqueaks</i>	New species	[10]
Caudovirales	Siphoviridae	Nelasvirinae	<i>Charlievirus</i>	<i>Mycobacterium virus Xeno</i>	New species	[10]
Caudovirales	Siphoviridae	Nelasvirinae	<i>Buttersvirus</i>		New genus	[10]
Caudovirales	Siphoviridae	Nelasvirinae	<i>Buttersvirus</i>	<i>Mycobacterium virus Butters</i>	New (type) species	[10]
Caudovirales	Siphoviridae	Nelasvirinae	<i>Buttersvirus</i>	<i>Mycobacterium virus Michelle</i>	New species	[10]
Caudovirales	Siphoviridae	Nymbaxtervirinae			New subfamily	[11]
Caudovirales	Siphoviridae	Nymbaxtervirinae	<i>Nymphadoravirus</i>		New genus	[11]
Caudovirales	Siphoviridae	Nymbaxtervirinae	<i>Nymphadoravirus</i>	<i>Gordonia virus Nymphadora</i>	New (type) species	[11]
Caudovirales	Siphoviridae	Nymbaxtervirinae	<i>Nymphadoravirus</i>	<i>Gordonia virus Kita</i>	New species	[11]
Caudovirales	Siphoviridae	Nymbaxtervirinae	<i>Nymphadoravirus</i>	<i>Gordonia virus Zirinka</i>	New species	[11]
Caudovirales	Siphoviridae	Nymbaxtervirinae	<i>Baxtervirus</i>		New genus	[11]
Caudovirales	Siphoviridae	Nymbaxtervirinae	<i>Baxtervirus</i>	<i>Gordonia virus BaxterFox</i>	New (type) species	[11]
Caudovirales	Siphoviridae	Nymbaxtervirinae	<i>Baxtervirus</i>	<i>Gordonia virus Yezy</i>	New species	[11]
Caudovirales	Siphoviridae	Wizardvirus			New genus	[12]
Caudovirales	Siphoviridae	Wizardvirus	<i>Wizardvirus</i>	<i>Gordonia virus Wizard</i>	New (type) species	[12]
Caudovirales	Siphoviridae	Wizardvirus	<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 GILL6</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>DJI2virus</i>		New genus	[15]
Caudovirales	<i>Podoviridae</i>		<i>DJI2virus</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>Svunavirus</i>		New genus	[17]
Caudovirales	<i>Myoviridae</i>		<i>Svunavirus</i>	<i>Geobacillus virus GBSV1</i>	New (type) species	[17]
Caudovirales	<i>Myoviridae</i>		<i>Svunavirus</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 JWAAlpha</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>Triginidactovirus</i>		New genus	[23]
Caudovirales	Siphoviridae		<i>Triginidactovirus</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 PF1</i>	New (type) species	[24]
Caudovirales	Siphoviridae		<i>Lambda virus</i>	<i>Escherichia virus DE3</i>	New species	[25]
Caudovirales	Siphoviridae		<i>Lambda virus</i>	<i>Escherichia virus HK629</i>	New species	[25]
Caudovirales	Siphoviridae		<i>Lambda virus</i>	<i>Escherichia virus HK630</i>	New species	[25]
Unassigned	Belpaoviridae		<i>Semotivirus</i>		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>Antheraea semotivirus Tamy</i>	New species	[26]
Unassigned	Belpaoviridae		<i>Semotivirus</i>	<i>Schistosoma semotivirus Sinbad</i>	New species	[26]
Unassigned	Parvovirinae		<i>Andoparvovirus</i>	<i>Carnivore andoparvovirus 3</i>	New species	[27]
Unassigned	Parvovirinae		<i>Andoparvovirus</i>	<i>Carnivore andoparvovirus 4</i>	New species	[27]
Unassigned	Parvovirinae		<i>Bocaparvovirus</i>	<i>Carnivore bocaparvovirus 4</i>	New species	[28]
Unassigned	Parvovirinae		<i>Bocaparvovirus</i>	<i>Carnivore bocaparvovirus 5</i>	New species	[28]
Unassigned	Parvovirinae		<i>Bocaparvovirus</i>	<i>Carnivore bocaparvovirus 6</i>	New species	[28]
Unassigned	Parvovirinae		<i>Bocaparvovirus</i>	<i>Chiropteran bocaparvovirus 1</i>	New species	[28]
Unassigned	Parvovirinae		<i>Bocaparvovirus</i>	<i>Chiropteran bocaparvovirus 2</i>	New species	[28]
Unassigned	Parvovirinae		<i>Bocaparvovirus</i>	<i>Chiropteran bocaparvovirus 3</i>	New species	[28]
Unassigned	Parvovirinae		<i>Bocaparvovirus</i>	<i>Chiropteran bocaparvovirus 4</i>	New species	[28]
Unassigned	Parvovirinae		<i>Bocaparvovirus</i>	<i>Lagomorph bocaparvovirus 1</i>	New species	[28]
Unassigned	Parvovirinae		<i>Bocaparvovirus</i>	<i>Ungulate bocaparvovirus 6</i>	New species	[28]
Unassigned	Parvovirinae		<i>Protoparvovirus</i>	<i>Chiropteran protoparvovirus 1</i>	New species	[29]
Unassigned	Parvovirinae		<i>Protoparvovirus</i>	<i>Eulipotyphla protoparvovirus 1</i>	New species	[29]
Unassigned	Parvovirinae		<i>Protoparvovirus</i>	<i>Primate protoparvovirus 2</i>	New species	[29]
Unassigned	Parvovirinae		<i>Protoparvovirus</i>	<i>Primate protoparvovirus 3</i>	New species	[29]
Unassigned	Parvovirinae		<i>Protoparvovirus</i>	<i>Rodent protoparvovirus 3</i>	New species	[29]
Unassigned	Parvovirinae		<i>Protoparvovirus</i>	<i>Ungulate protoparvovirus 2</i>	New species	[29]
Unassigned	<i>Iridoviridae</i>		<i>Ranavirus</i>	<i>Common midwife toad virus</i>	New species	[30]
Unassigned	<i>Retroviridae</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	<i>Simispumavirus</i>	<i>Eastern chimpanzee simian foamy virus</i>	Rename species (previous name: <i>Simian foamy virus</i>)	[31]
Unassigned	Retroviridae	Spumaretrovirinae	<i>Simispumavirus</i>	<i>Western chimpanzee simian foamy virus</i>	New species	[31]
Unassigned	Retroviridae	Spumaretrovirinae	<i>Simispumavirus</i>	<i>Central chimpanzee simian foamy virus</i>	New species	[31]
Unassigned	Retroviridae	Spumaretrovirinae	<i>Simispumavirus</i>	<i>Western lowland gorilla simian foamy virus</i>	New species	[31]
Unassigned	Retroviridae	Spumaretrovirinae	<i>Simispumavirus</i>	<i>Bornean orangutan simian foamy virus</i>	New species	[31]
Unassigned	Retroviridae	Spumaretrovirinae	<i>Simispumavirus</i>	<i>Taiwanese macaque simian foamy virus</i>	Rename species (previous name: <i>Macaque simian foamy virus</i>)	[31]
Unassigned	Retroviridae	Spumaretrovirinae	<i>Simispumavirus</i>	<i>Rhesus macaque simian foamy virus</i>	New species	[31]
Unassigned	Retroviridae	Spumaretrovirinae	<i>Simispumavirus</i>	<i>Japanese macaque simian foamy virus</i>	New species	[31]
Unassigned	Retroviridae	Spumaretrovirinae	<i>Simispumavirus</i>	<i>Grivet simian foamy virus</i>	Rename species (previous name: <i>African green monkey simian foamy virus</i>)	[31]
Unassigned	Retroviridae	Spumaretrovirinae	<i>Simispumavirus</i>	<i>Guenon simian foamy virus</i>	New species	[31]
Unassigned	Retroviridae	Spumaretrovirinae	<i>Simispumavirus</i>	<i>Spider monkey simian foamy virus</i>	New species	[31]
Unassigned	Retroviridae	Spumaretrovirinae	<i>Simispumavirus</i>	<i>White-tufted-ear marmoset simian foamy virus</i>	New species	[31]
Unassigned	Retroviridae	Spumaretrovirinae	<i>Simispumavirus</i>	<i>Squirrel monkey simian foamy virus</i>	New species	[31]
Unassigned	Retroviridae	Spumaretrovirinae	<i>Simispumavirus</i>	<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>	<i>Equine foamy virus</i>	New genus	[31]
Unassigned	Retroviridae	Spumaretrovirinae	<i>Equispumavirus</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	Betapolyomavirus	<i>Betapolyomavirus</i>	<i>Vicugna pacos polyomavirus 1</i>	New species	[32]
Unassigned	Polyomaviridae	Betapolyomavirus	<i>Betapolyomavirus</i>	<i>Rattus norvegicus polyomavirus 2</i>	New species	[32]
Unassigned	Polyomaviridae	Betapolyomavirus	<i>Betapolyomavirus</i>	<i>Leptonchotes weddellii polyomavirus 1</i>	New species	[32]
Unassigned	Polyomaviridae	Alphapolyomavirus	<i>Alphapolyomavirus</i>	<i>Ptilocolobus hadius polyomavirus 1</i>	New species	[32]
Unassigned	Polyomaviridae	Gammmapolyomavirus	<i>Gammmapolyomavirus</i>	<i>Lonchura maja polyomavirus 1</i>	New species	[32]
Unassigned	Polyomaviridae	Gammmapolyomavirus	<i>Gammmapolyomavirus</i>	<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>		unassigned	<i>Trematomus pennellii polyomavirus 1</i>	New species	[32]
Unassigned	<i>Baculoviridae</i>		<i>Betabaculovirus</i>	<i>Chaphalocroci medinalis granulovirus</i>	New species	[33]
Unassigned	<i>Baculoviridae</i>		<i>Betabaculovirus</i>	<i>Mythimna unipuncta granulovirus A</i>	Rename species (previous name: <i>Pseudalatalia 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>Dyoepsilontapapillomavirus</i>		Assign genus and constituent species (<i>Dyoepsilontapapillomavirus 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>Dyototapapillomavirus</i>		Assign genus and constituent species (<i>Dyototapapillomavirus 1</i> , <i>Dyototapapillomavirus 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	Papillomaviridae	Firstpapillomavirinae	<i>Dyonupapillomavirus</i>		Assign genus and constituent species (<i>Dyonupapillomavirus 1</i>) to new subfamily	[35]
Unassigned	Papillomaviridae	Firstpapillomavirinae	<i>Dyomegapapillomavirus</i>		Assign genus and constituent species (<i>Dyomegapapillomavirus 1</i>) to new subfamily	[35]
Unassigned	Papillomaviridae	Firstpapillomavirinae	<i>Dyoomikronpapillomavirus</i>		Assign genus and constituent species (<i>Dyoomikronpapillomavirus 1</i>) to new subfamily	[35]
Unassigned	Papillomaviridae	Firstpapillomavirinae	<i>Dyophilpapillomavirus</i>		Assign genus and constituent species (<i>Dyophilpapillomavirus 1</i>) to new subfamily	[35]
Unassigned	Papillomaviridae	Firstpapillomavirinae	<i>Dyopipapillomavirus</i>		Assign genus and constituent species (<i>Dyopipapillomavirus 1</i>) to new subfamily	[35]
Unassigned	Papillomaviridae	Firstpapillomavirinae	<i>Dyopsipapillomavirus</i>		Assign genus and constituent species (<i>Dyopsipapillomavirus 1</i>) to new subfamily	[35]
Unassigned	Papillomaviridae	Firstpapillomavirinae	<i>Dyohopapillomavirus</i>		Assign genus and constituent species (<i>Dyohopapillomavirus 1</i>) to new subfamily	[35]
Unassigned	Papillomaviridae	Firstpapillomavirinae	<i>Dyosigemapillomavirus</i>		Assign genus and constituent species (<i>Dyosigemapillomavirus 1</i>) to new subfamily	[35]
Unassigned	Papillomaviridae	Firstpapillomavirinae	<i>Dyotapapillomavirus</i>		Assign genus and constituent species (<i>Dyotapapillomavirus 1</i>) to new subfamily	[35]
Unassigned	Papillomaviridae	Firstpapillomavirinae	<i>Dyohetapapillomavirus</i>		Assign genus and constituent species (<i>Dyohetapapillomavirus 1</i>) to new subfamily	[35]
Unassigned	Papillomaviridae	Firstpapillomavirinae	<i>Dyousilonpapillomavirus</i>		Assign genus and constituent species (<i>Dyousilonpapillomavirus 1</i>) to new subfamily	[35]
Unassigned	Papillomaviridae	Firstpapillomavirinae	<i>Dyoxipapillomavirus</i>		Assign genus and constituent species (<i>Dyoxipapillomavirus 1</i>) to new subfamily	[35]
Unassigned	Papillomaviridae	Firstpapillomavirinae	<i>Dyozetapapillomavirus</i>		Assign genus and constituent species (<i>Dyozetapapillomavirus 1</i>) to new subfamily	[35]
Unassigned	Papillomaviridae	Firstpapillomavirinae	<i>Epsilompapillomavirus</i>		Assign genus and constituent species (<i>Epsilompapillomavirus 1</i>) to new subfamily	[35]
Unassigned	Papillomaviridae	Firstpapillomavirinae	<i>Etapapillomavirus</i>		Assign genus and constituent species (<i>Etapapillomavirus 1</i>) to new subfamily	[35]
Unassigned	Papillomaviridae	Firstpapillomavirinae	<i>Gammapapillomavirus</i>		Assign genus and constituent species (<i>Gammapapillomavirus 1</i> to <i>Gammapapillomavirus 26</i> , inclusive) to new subfamily	[35]
Unassigned	Papillomaviridae	Firstpapillomavirinae	<i>Iotapapillomavirus</i>		Assign genus and constituent species (<i>Iotapapillomavirus 1</i>) to new subfamily	[35]
Unassigned	Papillomaviridae	Firstpapillomavirinae	<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	Firstpapillomavirinae	<i>Lambdapapillomavirus</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	Firstpapillomavirinae	<i>Mupapillomavirus</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	Firstpapillomavirinae	<i>Nupapillomavirus</i>	<i>Nupapillomavirus</i>	Assign genus and constituent species (<i>Nupapillomavirus 1</i>) to new subfamily	[35]
Unassigned	Papillomaviridae	Firstpapillomavirinae	<i>Omegapapillomavirus</i>	<i>Omegapapillomavirus</i>	Assign genus and constituent species (<i>Omegapapillomavirus 1</i>) to new subfamily	[35]
Unassigned	Papillomaviridae	Firstpapillomavirinae	<i>Omikronpapillomavirus</i>	<i>Omikronpapillomavirus</i>	Assign genus and constituent species (<i>Omikronpapillomavirus 1</i>) to new subfamily	[35]
Unassigned	Papillomaviridae	Firstpapillomavirinae	<i>Phipapillomavirus</i>	<i>Phipapillomavirus</i>	Assign genus and constituent species (<i>Phipapillomavirus 1</i>) to new subfamily	[35]
Unassigned	Papillomaviridae	Firstpapillomavirinae	<i>Pipapillomavirus</i>	<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>	<i>Psipapillomavirus</i>	Assign genus and constituent species (<i>Psipapillomavirus 1</i>) to new subfamily	[35]
Unassigned	Papillomaviridae	Firstpapillomavirinae	<i>Rhopapillomavirus</i>	<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>	<i>Sigmopapillomavirus</i>	Assign genus and constituent species (<i>Sigmopapillomavirus 1</i>) to new subfamily	[35]
Unassigned	Papillomaviridae	Firstpapillomavirinae	<i>Taupapillomavirus</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	Firstpapillomavirinae	<i>Thetapapillomavirus</i>	<i>Thetapapillomavirus</i>	Assign genus and constituent species (<i>Thetapapillomavirus 1</i>) to new subfamily	[35]
Unassigned	Papillomaviridae	Firstpapillomavirinae	<i>Treisideltapapillomavirus</i>	<i>Treisideltapapillomavirus</i>	Assign genus and constituent species (<i>Treisideltapapillomavirus 1</i>) to new subfamily	[35]
Unassigned	Papillomaviridae	Firstpapillomavirinae	<i>Treisepsilompapillomavirus</i>	<i>Treisepsilompapillomavirus</i>	Assign genus and constituent species (<i>Treisepsilompapillomavirus 1</i>) to new subfamily	[35]
Unassigned	Papillomaviridae	Firstpapillomavirinae	<i>Treisetapapillomavirus</i>	<i>Treisetapapillomavirus</i>	Assign genus and constituent species (<i>Treisetapapillomavirus 1</i>) to new subfamily	[35]
Unassigned	Papillomaviridae	Firstpapillomavirinae	<i>Treiszetapapillomavirus</i>	<i>Treiszetapapillomavirus</i>	Assign genus and constituent species (<i>Treiszetapapillomavirus 1</i>) to new subfamily	[35]
Unassigned	Papillomaviridae	Firstpapillomavirinae	<i>Upsilompapillomavirus</i>	<i>Upsilompapillomavirus</i>	Assign genus and constituent species (<i>Upsilompapillomavirus 1</i> , <i>Upsilompapillomavirus 2</i> , <i>Upsilompapillomavirus 3</i>) to new subfamily	[35]
Unassigned	Papillomaviridae	Firstpapillomavirinae	<i>Xipapillomavirus</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	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	Treisthetapapillomavirus	New genus	[35]
Unassigned	Papillomaviridae	Firstpapillomavirinae	Treisthetapapillomavirus	Treisthetapapillomavirus 1	New (type) species	[35]
Unassigned	Papillomaviridae	Firstpapillomavirinae	Psi-papillomavirus	Psi-papillomavirus 2	New species	[35]
Unassigned	Papillomaviridae	Firstpapillomavirinae	Psi-papillomavirus	Psi-papillomavirus 3	New species	[35]
Unassigned	Papillomaviridae	Firstpapillomavirinae	Epsilon-papillomavirus	Epsilon-papillomavirus 2	New species	[35]
Unassigned	Papillomaviridae	Firstpapillomavirinae	Iota-papillomavirus	Iota-papillomavirus 2	New species	[35]
Unassigned	Papillomaviridae	Firstpapillomavirinae	Treistotapapillomavirus	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	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	Alefpapillomavirus 1	New genus	[35]
Unassigned	Papillomaviridae	Secondpapillomavirinae			New (type) species	[35]
Unassigned	Smacoviridae		Bovismacovirus		New family	[36]
Unassigned	Smacoviridae		Bovismacovirus	Bovine associated bovismacovirus 1	New genus	[36]
Unassigned	Smacoviridae		Bovismacovirus	Bovine associated bovismacovirus 2	New (type) species	[36]
Unassigned	Smacoviridae		Bovismacovirus	Dragonfly associated bovismacovirus 1	New species	[36]
Unassigned	Smacoviridae		Drosmacovirus		New species	[36]
Unassigned	Smacoviridae		Drosmacovirus	Camel associated drosmacovirus 1	New genus	[36]
Unassigned	Smacoviridae		Drosmacovirus	Bovine associated drosmacovirus 1	New (type) 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>Barrachovirus</i>	<i>Ranid herpesvirus 3</i>	New species	[37]
<i>Herpesvirales</i>	<i>Alloherpesviridae</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>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>		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>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 salsigneum 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>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-GPY</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 kerII</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		Simartevirus	<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	Paritiviridae		Unassigned	<i>Gaeumannomyces graminis virus O196A</i>	Rename species (previous name: <i>Gaeumannomyces graminis virus O19/6-A</i>)	[43]
Unassigned	Paritiviridae		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		Carlavirus	<i>Kalanchoe latent virus</i>	Rename species (previous name: <i>Kalanchoë latent virus</i>)	[43]
Unassigned	Potyviridae		Potyvirus	<i>Kalanchoe mosaic virus</i>	Rename species (previous name: <i>Kalanchoë mosaic virus</i>)	[43]
Unassigned	Caulimoviridae		Badnavirus	<i>Kalanchoe top-spotting virus</i>	Rename species (previous name: <i>Kalanchoë 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	Calciviridae		Nebovirus	<i>Newbury 1 virus</i>	Rename species (previous name: <i>Newbury-1 virus</i>)	[43]
Unassigned	Togaviridae		Alphavirus	<i>Ohyong-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		<i>Chrysovirus</i>	<i>Penicillium cyaneofulvum virus</i>	Rename species (previous name: <i>Penicillium cyaneofulvum virus</i>)	[43]
Unassigned	Arenaviridae		<i>Mammarenavirus</i>	<i>Cali mammarenavirus</i>	Rename species (previous name: <i>Pichindé mammarenavirus</i>)	[43]
Unassigned	Arenaviridae		<i>Mammarenavirus</i>	<i>Brazilian mammarenavirus</i>	Rename species (previous name: <i>Sabiá mammarenavirus</i>)	[43]
Unassigned	Totiviridae		<i>Totivirus</i>	<i>Saccharomyces cerevisiae virus LBCLa</i>	Rename species (previous name: <i>Saccharomyces cerevisiae virus L-BC (La)</i>)	[43]
Unassigned	Virgaviridae		<i>Tobamovirus</i>	<i>Opuntia chlorotic ringspot virus</i>	Rename species (previous name: <i>Sommons s Opuntia virus</i>)	[43]
Tymovirales	Betaflexiviridae	Quinvirinae	<i>Carlavirus</i>	<i>Sint-Jan onion latent virus</i>	Rename species (previous name: <i>Sint-Jan's onion latent virus</i>)	[43]
Picornavirales	Dicistroviridae		<i>Aparavirus</i>	<i>Solenopsis invicta virus 1</i>	Rename species (previous name: <i>Solenopsis invicta virus-1</i>)	[43]
unassigned	Flaviviridae		<i>Flavivirus</i>	<i>Saint Louis encephalitis virus</i>	Rename species (previous name: <i>St. Louis encephalitis virus</i>)	[43]
Mononegavirales	Filoviridae		<i>Ebolavirus</i>	<i>Tai Forest ebolavirus</i>	Rename species (previous name: <i>Tai Forest ebolavirus</i>)	[43]
Unassigned	Pseudoviridae		<i>Pseudovirus</i>	<i>Triticum aestivum WIS2 virus</i>	Rename species (previous name: <i>Triticum aestivum WIS-2 virus</i>)	[43]
Picornavirales	Iflaviridae		<i>Iflavirus</i>	<i>Varroa destructor virus 1</i>	Rename species (previous name: <i>Varroa destructor virus-1</i>)	[43]
Unassigned	Retroviridae	Orthoretrovirinae	<i>Lentivirus</i>	<i>Visna-maedi virus</i>	Rename species (previous name: <i>Visna/maedi virus</i>)	[43]
Unassigned	Potyviridae		<i>Tritimovirus</i>	<i>Yellow oat grass mosaic virus</i>	Rename species (previous name: <i>Yellow oat-grass mosaic virus</i>)	[43]
Unassigned	Pseudoviridae		<i>Sirevirus</i>	<i>Zea mays Opie2 virus</i>	Rename species (previous name: <i>Zea mays Opie-2 virus</i>)	[43]
Unassigned	Pseudoviridae		<i>Sirevirus</i>	<i>Zea mays Prem2 virus</i>	Rename species (previous name: <i>Zea mays Prem-2 virus</i>)	[43]
Unassigned	Pseudoviridae		<i>Pseudovirus</i>	<i>Zea mays Sto4 virus</i>	Rename species (previous name: <i>Zea mays Sto-4 virus</i>)	[43]
Unassigned	Arenaviridae		Hartmanivirus		See TP List for proposed change to ICVCN	[44]
Unassigned	Arenaviridae		Hartmanivirus	Hartman hartmanivirus	New genus	[45]
Unassigned	Arenaviridae		<i>Mammarenavirus</i>	Ryukyu mammarenavirus	New (type) species	[45]
Unassigned	Arenaviridae		<i>Mammarenavirus</i>	Souris mammarenavirus	New species	[46]
Unassigned	Bornaviridae		<i>Orthobornavirus</i>	<i>Elapid 1 orthobornavirus</i>	New species	[47]
Mononegavirales	Bornaviridae		<i>Orthobornavirus</i>		Rename genus	[48]
Mononegavirales	Bornaviridae		<i>Orthobornavirus</i>		Rename species (previous name: <i>Elapid 1 bornavirus</i>)	[48]
Mononegavirales	Bornaviridae		<i>Orthobornavirus</i>	<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	Mammalian 2 orthobornavirus	Rename species (previous name: <i>Mammalian 2 bornavirus</i>)	[48]
Mononegavirales	Bornaviridae		Orthobornavirus	Passeriform 1 orthobornavirus	Rename species (previous name: <i>Passeriform 1 bornavirus</i>)	[48]
Mononegavirales	Bornaviridae		Orthobornavirus	Passeriform 2 orthobornavirus	Rename species (previous name: <i>Passeriform 2 bornavirus</i>)	[48]
Mononegavirales	Bornaviridae		Orthobornavirus	Psittaciform 1 orthobornavirus	Rename species (previous name: <i>Psittaciform 1 bornavirus</i>)	[48]
Mononegavirales	Bornaviridae		Orthobornavirus	Psittaciform 2 orthobornavirus	Rename species (previous name: <i>Psittaciform 2 bornavirus</i>)	[48]
Mononegavirales	Bornaviridae		Orthobornavirus	Waterbird 1 orthobornavirus	Rename species (previous name: <i>Waterbird 1 bornavirus</i>)	[48]
Mononegavirales	Bornaviridae		Carbovirus		New genus	[49]
Mononegavirales	Bornaviridae		Carbovirus	Queenstand carbovirus	New (type) species	[49]
Mononegavirales	Bornaviridae		Carbovirus	Southwest carbovirus	New species	[49]
Bunyavirales	Peribunyaviridae		Orthobunyavirus	Wolkberg orthobunyavirus	New species	[50]
Bunyavirales	Nairoviridae		Orthonaivirus	Artasbat orthonaivirus	New species	[51]
Bunyavirales	Nairoviridae		Orthonaivirus	Tandy orthonaivirus	Rename species (previous name: <i>Burana orthonaivirus</i>)	[51]
Bunyavirales	Nairoviridae		Orthonaivirus	Chin orthonaivirus	New species	[51]
Mononegavirales	Rhabdoviridae		Ledantevirus	Kanyawara ledantevirus	New species	[52]
Mononegavirales	Paramyxoviridae		Avulavirus	Avian avulavirus 14	New species	[53]
Mononegavirales	Paramyxoviridae		Avulavirus	Avian avulavirus 15	New species	[53]
Mononegavirales	Paramyxoviridae		Avulavirus	Avian avulavirus 16	New species	[53]
Mononegavirales	Paramyxoviridae		Avulavirus	Avian avulavirus 17	New species	[53]
Mononegavirales	Paramyxoviridae		Avulavirus	Avian avulavirus 18	New species	[53]
Mononegavirales	Paramyxoviridae		Avulavirus	Avian avulavirus 19	New species	[53]
Unassigned	Orthomyxoviridae		Alphainfluenzavirus		Rename genus (previous name: <i>Influenzavirus A</i>)	[54]
Unassigned	Orthomyxoviridae		Betainfluenzavirus		Rename genus (previous name: <i>Influenzavirus B</i>)	[54]
Unassigned	Orthomyxoviridae		Gammainfluenzavirus		Rename genus (previous name: <i>Influenzavirus C</i>)	[54]
Unassigned	Orthomyxoviridae		Deltainfluenzavirus		Rename genus (previous name: <i>Influenzavirus D</i>)	[54]
Unassigned	Orthomyxoviridae		Isavirus	Salmon isavirus	Rename species (previous name: <i>Infectious salmon anemia virus</i>)	[54]
Unassigned	Orthomyxoviridae		Quararjavirus	Johnston Atoll quararjavirus	Rename species (previous name: <i>Johnston Atoll virus</i>)	[54]
Unassigned	Orthomyxoviridae		Quararjavirus	Quararjavirus	Rename species (previous name: <i>Quararjavirus</i>)	[54]
Unassigned	Orthomyxoviridae		Thogotovirus	Dhori thogotovirus	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>	<i>Gannoruwa bat lyssavirus</i>	New species	[55]
Mononegavirales	Rhabdoviridae		<i>Lyssavirus</i>	<i>Lleida bat lyssavirus</i>	New species	[56]
Unassigned	Arenaviridae		<i>Reptarenavirus</i>	<i>Golden reptarenavirus</i>	Rename species (previous name: <i>Alethinophilid 1 reptarenavirus</i>)	[57]
Unassigned	Arenaviridae		<i>Reptarenavirus</i>	<i>California reptarenavirus</i>	Rename species (previous name: <i>Alethinophilid 2 reptarenavirus</i>)	[57]
Unassigned	Arenaviridae		<i>Reptarenavirus</i>	<i>Rotterdam reptarenavirus</i>	Rename species (previous name: <i>Alethinophilid 3 reptarenavirus</i>)	[57]
Unassigned	Arenaviridae		<i>Reptarenavirus</i>	<i>Ordinary reptarenavirus</i>	New species	[57]
Unassigned	Arenaviridae		<i>Reptarenavirus</i>	<i>Giessen reptarenavirus</i>	New species	[57]
Unassigned	Reoviridae	Spinareovirinae	<i>Orthoreovirus</i>	<i>Mahlapitsi orthoreovirus</i>	New species	[58]
Mononegavirales	Rhabdoviridae		<i>Tibrovirus</i>	<i>Beatrice Hill tibrovirus</i>	New species	[59]
Unassigned	Potyviridae		<i>Roymovirus</i>		New genus	[60]
Unassigned	Potyviridae		<i>Roymovirus</i>	<i>Rose yellow mosaic virus</i>	Species assigned as type species of new genus	[60]
Unassigned	Potyviridae		<i>Bevemovirus</i>		New genus	[60]
Unassigned	Potyviridae		<i>Bevemovirus</i>	<i>Bellflower veinial mottle virus</i>	New (type) species	[60]
Unassigned	Aspiviridae				Rename family (previous name: <i>Ophiioviridae</i>)	[61]
Unassigned	Aspiviridae		<i>Ophiiovirus</i>	<i>Blueberry mosaic associated ophiiovirus</i>	Rename species (previous name: <i>Blueberry mosaic associated virus</i>)	[61]
Unassigned	Aspiviridae		<i>Ophiiovirus</i>	<i>Citrus psorosis ophiiovirus</i>	Rename species (previous name: <i>Citrus psorosis virus</i>)	[61]
Unassigned	Aspiviridae		<i>Ophiiovirus</i>	<i>Freesia sneak ophiiovirus</i>	Rename species (previous name: <i>Freesia sneak virus</i>)	[61]
Unassigned	Aspiviridae		<i>Ophiiovirus</i>	<i>Lettuce ring necrosis ophiiovirus</i>	Rename species (previous name: <i>Lettuce ring necrosis virus</i>)	[61]
Unassigned	Aspiviridae		<i>Ophiiovirus</i>	<i>Mirafiori lettuce big-vein ophiiovirus</i>	Rename species (previous name: <i>Mirafiori lettuce big-vein virus</i>)	[61]
Unassigned	Aspiviridae		<i>Ophiiovirus</i>	<i>Ranunculus white mottle ophiiovirus</i>	Rename species (previous name: <i>Ranunculus white mottle virus</i>)	[61]
Unassigned	Aspiviridae		<i>Ophiiovirus</i>	<i>Tulip mild mottle mosaic ophiiovirus</i>	Rename species (previous name: <i>Tulip mild mottle mosaic virus</i>)	[61]
Unassigned	<i>Solemoviridae</i>		<i>Sobemovirus</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>				New subfamily	[63]
Unassigned	<i>Alphasatellitidae</i>				New genus	[63]

Table 2 (continued)

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

Table 2 (continued)

Order	Family	Subfamily (blank = unassigned)	Genus	Species	Taxonomic change	References
Unassigned	Alphasatellitidae	Geminiaphasatellitinae	Gosmusatellite	Hollyhock yellow vein alphasatellite	New species	[63]
Unassigned	Alphasatellitidae	Geminiaphasatellitinae	Gosmusatellite	Mesta yellow vein mosaic alphasatellite	New species	[63]
Unassigned	Alphasatellitidae	Geminiaphasatellitinae	Gosmusatellite	Okra enation leaf curl alphasatellite	New species	[63]
Unassigned	Alphasatellitidae	Geminiaphasatellitinae	Gosmusatellite	Okra yellow crinkle Cameroon alphasatellite	New species	[63]
Unassigned	Alphasatellitidae	Geminiaphasatellitinae	Gosmusatellite	Yernonia yellow vein Fujian alphasatellite	New species	[63]
Unassigned	Alphasatellitidae	Geminiaphasatellitinae	Unassigned	Whitefly associated Guetamada alphasatellite 1	New species	[63]
Unassigned	Alphasatellitidae	Geminiaphasatellitinae	Unassigned	Dragonfly associated alphasatellite	New species	[63]
Unassigned	Alphasatellitidae	Nanoalphasatellitinae	Babusatellite		New subfamily	[63]
Unassigned	Alphasatellitidae	Nanoalphasatellitinae	Babusatellite	Banana bunchy top alphasatellite 3	New genus	[63]
Unassigned	Alphasatellitidae	Nanoalphasatellitinae	Babusatellite	Banana bunchy top alphasatellite 1	New species	[63]
Unassigned	Alphasatellitidae	Nanoalphasatellitinae	Babusatellite	Banana bunchy top alphasatellite 2	New (type) species	[63]
Unassigned	Alphasatellitidae	Nanoalphasatellitinae	Babusatellite	Banana bunchy top alphasatellite 2	New species	[63]
Unassigned	Alphasatellitidae	Nanoalphasatellitinae	Babusatellite	Cardamom bushy dwarf alphasatellite	New species	[63]
Unassigned	Alphasatellitidae	Nanoalphasatellitinae	Fabensatellite		New genus	[63]
Unassigned	Alphasatellitidae	Nanoalphasatellitinae	Fabensatellite	Faba bean necrotic yellows alphasatellite 2	New (type) species	[63]
Unassigned	Alphasatellitidae	Nanoalphasatellitinae	Milvetsatellite		New (type) species	[63]
Unassigned	Alphasatellitidae	Nanoalphasatellitinae	Milvetsatellite	Milk vetch dwarf alphasatellite 3	New genus	[63]
Unassigned	Alphasatellitidae	Nanoalphasatellitinae	Clostunsatellite		Bew (type) species	[63]
Unassigned	Alphasatellitidae	Nanoalphasatellitinae	Clostunsatellite		New genus	[63]
Unassigned	Alphasatellitidae	Nanoalphasatellitinae	Clostunsatellite	Milk vetch dwarf alphasatellite 2	New species	[63]
Unassigned	Alphasatellitidae	Nanoalphasatellitinae	Clostunsatellite	Pea necrotic yellow dwarf alphasatellite 2	New species	[63]
Unassigned	Alphasatellitidae	Nanoalphasatellitinae	Clostunsatellite	Sophora yellow stunt alphasatellite 5	New species	[63]
Unassigned	Alphasatellitidae	Nanoalphasatellitinae	Clostunsatellite	Sophora yellow stunt alphasatellite 4	New species	[63]
Unassigned	Alphasatellitidae	Nanoalphasatellitinae	Clostunsatellite	Subterranean clover stunt alphasatellite 2	New (type) species	[63]
Unassigned	Alphasatellitidae	Nanoalphasatellitinae	Mivedwarsatellite		New genus	[63]
Unassigned	Alphasatellitidae	Nanoalphasatellitinae	Mivedwarsatellite	Milk vetch dwarf alphasatellite 1	New (type) species	[63]
Unassigned	Alphasatellitidae	Nanoalphasatellitinae	Mivedwarsatellite	Pea necrotic yellow dwarf alphasatellite 1	New (type) species	[63]
Unassigned	Alphasatellitidae	Nanoalphasatellitinae	Mivedwarsatellite	Sophora yellow stunt alphasatellite 2	New species	[63]
Unassigned	Alphasatellitidae	Nanoalphasatellitinae	Mivedwarsatellite	Faba bean necrotic stunt alphasatellite	New species	[63]
Unassigned	Alphasatellitidae	Nanoalphasatellitinae	Mivedwarsatellite	Faba bean necrotic yellows alphasatellite 1	New species	[63]
Unassigned	Alphasatellitidae	Nanoalphasatellitinae	Subclovsatellite		New species	[63]
Unassigned	Alphasatellitidae	Nanoalphasatellitinae	Subclovsatellite	Sophora yellow stunt alphasatellite 1	New genus	[63]
Unassigned	Alphasatellitidae	Nanoalphasatellitinae	Subclovsatellite	Subterranean clover stunt alphasatellite 1	New species	[63]
Unassigned	Alphasatellitidae	Nanoalphasatellitinae	Subclovsatellite	Subterranean clover stunt alphasatellite 1	New (type) species	[63]
Unassigned	Alphasatellitidae	Nanoalphasatellitinae	Sophoyesatellite		New genus	[63]
Unassigned	Alphasatellitidae	Nanoalphasatellitinae	Sophoyesatellite	Sophora yellow stunt alphasatellite 3	New (type) species	[66]
Unassigned	Alphasatellitidae	Unassigned	Unassigned	Coconut foliar decay alphasatellite	New species	[63]
Picornavirales	Secoviridae	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
Picornavirales	Secoviridae		unassigned	<i>Dioscorea mosaic associated virus</i>	New species	[64]
Unassigned	Potyviridae		<i>Ipomovirus</i>	<i>Coccinia mottle virus</i>	New species	[65]
Unassigned	Potyviridae		<i>Potyvirus</i>	<i>Barbacena virus Y</i>	New species	[65]
Unassigned	Potyviridae		<i>Potyvirus</i>	<i>Callistephus mottle virus</i>	New species	[65]
Unassigned	Potyviridae		<i>Potyvirus</i>	<i>Daphne virus Y</i>	New species	[65]
Unassigned	Potyviridae		<i>Potyvirus</i>	<i>Impatiens flower break virus</i>	New species	[65]
Unassigned	Potyviridae		<i>Potyvirus</i>	<i>Pecan mosaic-associated virus</i>	New species	[65]
Unassigned	Potyviridae		<i>Potyvirus</i>	<i>Sunflower ring blotch virus</i>	New species	[65]
Unassigned	Potyviridae		<i>Potyvirus</i>	<i>Tobacco mosqueado virus</i>	New species	[65]
Unassigned	Potyviridae		<i>Potyvirus</i>	<i>Wild onion symptomless virus</i>	New species	[65]
Unassigned	Geminiviridae		<i>Mastrevirus</i>	<i>Chickpea yellow dwarf virus</i>	New species	[66]
Unassigned	Geminiviridae		<i>Mastrevirus</i>	<i>Dragonfly-associated mastrevirus</i>	New species	[66]
Unassigned	Geminiviridae		<i>Mastrevirus</i>	<i>Sugarcane striate virus</i>	New species	[66]
Unassigned	Geminiviridae		<i>Mastrevirus</i>	<i>Sweet potato symptomless virus I</i>	New species	[66]
Unassigned	Geminiviridae		<i>Mastrevirus</i>	<i>Sugarcane chlorotic streak virus</i>	New species	[66]
Unassigned	Geminiviridae		<i>Turncurtovirus</i>	<i>Turnip leaf roll virus</i>	New species	[67]
Unassigned	Geminiviridae		<i>Begomovirus</i>	<i>Allamanda leaf mottle distortion virus</i>	New species	[68]
Unassigned	Geminiviridae		<i>Begomovirus</i>	<i>Andrographis yellow vein leaf curl virus</i>	New species	[68]
Unassigned	Geminiviridae		<i>Begomovirus</i>	<i>Asystasia mosaic Madagascar virus</i>	New species	[68]
Unassigned	Geminiviridae		<i>Begomovirus</i>	<i>Bean white chlorosis mosaic virus</i>	New species	[68]
Unassigned	Geminiviridae		<i>Begomovirus</i>	<i>Cnidocolus mosaic leaf deformation virus</i>	New species	[68]
Unassigned	Geminiviridae		<i>Begomovirus</i>	<i>Coccinia mosaic Tamil Nadu virus</i>	New species	[68]
Unassigned	Geminiviridae		<i>Begomovirus</i>	<i>Common bean mottle virus</i>	New species	[68]
Unassigned	Geminiviridae		<i>Begomovirus</i>	<i>Common bean severe mosaic virus</i>	New species	[68]
Unassigned	Geminiviridae		<i>Begomovirus</i>	<i>Cotton leaf curl Barasat virus</i>	New species	[68]
Unassigned	Geminiviridae		<i>Begomovirus</i>	<i>Cotton yellow mosaic virus</i>	New species	[68]
Unassigned	Geminiviridae		<i>Begomovirus</i>	<i>Deinbollia mosaic virus</i>	New species	[68]
Unassigned	Geminiviridae		<i>Begomovirus</i>	<i>Desmodium mottle virus</i>	New species	[68]
Unassigned	Geminiviridae		<i>Begomovirus</i>	<i>Duranta leaf curl virus</i>	New species	[68]
Unassigned	Geminiviridae		<i>Begomovirus</i>	<i>Euphorbia mosaic Peru virus</i>	New species	[68]
Unassigned	Geminiviridae		<i>Begomovirus</i>	<i>Euphorbia yellow leaf curl virus</i>	New species	[68]
Unassigned	Geminiviridae		<i>Begomovirus</i>	<i>Hollyhock yellow vein mosaic virus</i>	New species	[68]
Unassigned	Geminiviridae		<i>Begomovirus</i>	<i>Jacquemontia yellow mosaic virus</i>	New species	[68]
Unassigned	Geminiviridae		<i>Begomovirus</i>	<i>Jatropha leaf curl Gujarat virus</i>	New species	[68]
Unassigned	Geminiviridae		<i>Begomovirus</i>	<i>Jatropha leaf yellow mosaic virus</i>	New species	[71]
Unassigned	Geminiviridae		<i>Begomovirus</i>	<i>Listanthus enation leaf curl virus</i>	New species	[68]
Unassigned	Geminiviridae		<i>Begomovirus</i>	<i>Lycianthes yellow mosaic virus</i>	New species	[68]
Unassigned	Geminiviridae		<i>Begomovirus</i>	<i>Macropititium bright mosaic virus</i>	New species	[68]
Unassigned	Geminiviridae		<i>Begomovirus</i>	<i>Macropititium 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>Triunfetta 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 erinkle 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	Tolecusate llitidae		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>Borytis cinerea betaendornavirus 1</i>	New species	[70]
Unassigned	Bromoviridae		Iarvirus	<i>Ageratum latent virus</i>	New species	[71]
Unassigned	Bromoviridae		Iarvirus	<i>Privet ringspot virus</i>	New species	[71]
Unassigned	Bromoviridae		Iarvirus	<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: <i>Tymovirales/Alphaflexiviridae/unassigned</i>)	[78]
Tymovirales	Alphaflexiviridae		Allexivirus	<i>Arachis pinto 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
<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>Aalivirus</i>		New genus	[79]
<i>Picornavirales</i>	<i>Picornaviridae</i>		<i>Aalivirus</i>	<i>Aalivirus 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>Crohivirus C</i>	New (type) species	[81]
<i>Picornavirales</i>	<i>Picornaviridae</i>		<i>Enterovirus</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>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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 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
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 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
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 30. Saucedo Garnica B, Rijks JM. Proposal 2017.005D.A.v1.Ranavirus_sp. Create a species in family *Iridoviridae*, genus *Ranavirus*, subfamily *Alphairidovirinae*. http://ictv.global/proposals-17/2017.005D.A.v1.Ranavirus_sp.zip. Accessed 25 Apr 2018
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 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
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 37. Origi FC. Proposal 2017.012D.A.v1.Batrachovirus_sp. Create a species in the genus *Batrachovirus*, family *Alloherpesviridae*, order *Herpesvirales*. http://ictv.global/proposals-17/2017.012D.A.v1.Batrachovirus_sp.zip. Accessed 25 Apr 2018
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 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. Magnus L, Norder H. Proposal 2017.015D.A.v1.Hepadnaviridae_2sp. Create 2 species to be unassigned in the family *Hepadnaviridae*. http://ictv.global/proposals-17/2017.015D.A.v1.Hepadnaviridae_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
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 44. Kropinski AM, Kuhn JH and 133 others. 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. http://ictv.global/proposals-17/2017.003G.A.v2.ICVCN_Rule_3.11_Change.zip. Accessed 25 Apr 2018

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48. Rubbenstroth D, Briese T, Dürrwald R, Horie M, Kuhn JH, Nowotny N, Payne S, Schwemmler 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
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63. Briddon R, Varsani A Proposal 2017.004P.A.v4.Alphasatellitidae. Create the *Alphasatellitidae*, a family of satellites comprising 2 new subfamilies and 11 new genera. <http://ictv.global/proposals-17/2017.004P.A.v4.Alphasatellitidae.zip>. Accessed 25 Apr 2018
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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
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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
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78. Kreuze J, Adams MJ, Candresse T, Hammond J, Menzel W, Pearson M, Saldarelli P, Vaira AM, Yoshikawa N. Proposal 2017.021P.A.v3.Alpha-Betaflexiviridae_14sp. Create 14 new species in the *Alphaflexiviridae* and *Betaflexiviridae* families and 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
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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
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