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ICTV VIRUS TAXONOMY SUMMARY

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Summary of taxonomy changes ratified by the International Committee on Taxonomy of Viruses from the Plant Viruses Subcommittee, 2025

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Abstract

In March 2025, following the annual International Committee on Taxonomy of Viruses (ICTV) ratification vote, newly proposed taxa were added to those under the mandate of the Plant Viruses Subcommittee. In brief, 1 new order, 3 new families, 6 new genera, 2 new subgenera and 206 new species were created. Some taxa were reorganized. Genus *Cytorhabdovirus* in the family *Rhabdoviridae* was abolished and its taxa were redistributed into three new genera *Alphacytorhabdovirus*, *Betacytorhabdovirus* and *Gammacytorhabdovirus*. Genus *Waikavirus* in the family *Secoviridae* was reorganized into two subgenera (*Actinidivirus* and *Ritunrivirus*). One family and four previously unaffiliated genera were moved to the newly established order *Tombendovirales*. Twelve species not assigned to a genus were abolished. To comply with the ICTV mandate of a binomial format for virus species, eight species were renamed. Demarcation criteria in the absence of biological information were defined in the genus *Ilarvirus* (family *Bromoviridae*). This article presents the updated taxonomy put forth by the Plant Viruses Subcommittee and ratified by the ICTV.

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Abbreviations: CP, coat protein; ICTV, International Committee on Taxonomy of Viruses; Pol, polymerase; Pro, protease. Supplementary files are available with the online version of this article.

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INTRODUCTION

The Plant Viruses Subcommittee of the International Committee on Taxonomy of Viruses (ICTV) deals with the taxonomic classification of most viruses infecting or isolated from plants [1]. It consists of 22 Study Groups, composed of more than 180 members, covering 27 virus families.

Viruses, viroids, satellite viruses and satellite nucleic acids originally isolated from plants have been classified into 2,392 species belonging to 247 genera in 55 families, 25 orders, 16 classes, 7 phyla, 3 kingdoms and 2 realms [2]. Following the 2025 ICTV ratification vote, these taxa were expanded by creating 1 new order, 3 new families, 6 new genera, 2 new subgenera and 206 new species.

To comply with the ICTV mandate of a binomial format for virus species [3, 4], species names will consist of the genus name followed by a Latinized or not Latinized (freeform) epithet [5, 6]. The adoption of the binomial format for virus species names was completed by renaming eight species. Similarly, 12 species in the families *Rhabdoviridae* and *Tombusviridae* were abolished because they could not be assigned to a genus due to the lack of a genome sequence. Viruses in many of the new species were discovered by metagenomic analysis and were classified according to Simmonds *et al.* [7].

Some established taxa have been extensively reorganized. The family *Rhabdoviridae* has been expanded by the creation of one new genus, whereas the genus *Cytorhabdovirus* was abolished and replaced with three new genera *Alphacytorhabdovirus*, *Betacytorhabdovirus* and *Gammacytorhabdovirus*, representing distinct evolutionary lineages. In the family *Secoviridae*, one new genus was created and the established genus *Waikavirus* was reorganized into two subgenera. The establishment of the new order *Tombendovirales* allowed the placement of four previously unaffiliated genera of plant satellite viruses into four families based on high-resolution capsid structure studies rather than sequence identity.

The classification of viruses discovered by metagenomics prompted some refinement of demarcation criteria in the absence of biological information. For instance, species demarcation criteria based on 'serology, host range and sequence similarity' in the genus *Ilarvirus*, family *Bromoviridae*, have been refined to require less than 85% amino acid identity for the complete RNA2-encoded 2a protein.

All of these changes contribute to the advancement of virus taxonomy. To disseminate taxonomy decisions, the annual publication of summaries of all taxonomy proposals from each ICTV Subcommittee will provide a compendium of the taxonomy changes [8]. Therefore, the updated taxonomy from the Plant Viruses Subcommittee as now accepted by the ICTV is summarized in this article. It should be noted that the article does not necessarily cover all changes in the taxonomy of plant viruses, and consultation of reports from the Fungal and Protist Viruses Subcommittee [9] and the Animal dsRNA and ssRNA(–) Viruses Subcommittee [10] may be needed. A file including all the Tables of taxonomic changes below is available as a supplementary file to this article.

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2024.001P.Fimoviridae_1nsp

Title: Create Emaravirus clematis as a new species in the genus Emaravirus, family Fimoviridae

Authors: Yang C., An W., Li C., Zhang S., Cao M., Digiaro M. (digiaro@iamb.it), Elbeaino T., Kubota K., Ochoa Corona F.M., von Bargen S.

Summary

Taxonomic rank(s) affected

Species

Description of current taxonomy

The family Fimoviridae currently includes 32 virus species in the genus Emaravirus.

Proposed taxonomic change(s)

Add one (1) new virus species to genus *Emaravirus* within the family *Fimoviridae*.

Justification

The creation of the new species *Emaravirus clematis* in the genus *Emaravirus*, family *Fimoviridae*, is proposed to accommodate Clematis yellow mottle-associated virus, identified in China on *Clematis brevicaudata* DC. The virus assigned to the new species consists of a fully sequenced five-segmented, linear, single-stranded (ss), negative-sense RNA genome (of which two RNA3s encode the nucleocapsid protein), which shows features common to homologous RNAs of viruses assigned to other *Emaravirus* species but from which they differ significantly in nucleotide and amino acid sequences.

Submitted: 30/04/24; Revised: 16/09/24

Table 1. Fimoviridae, 1 new taxon*

Operation	Rank	New taxon name	Virus name	Exemplar
New taxon	Species	Emaravirus clematis	Clematis yellow mottle- associated virus	RNA1: OP807964; RNA2: OP807965; RNA3a: OP807966; RNA3b: OP807967; RNA4: OP807968

 $[*]Source/full\ text:\ https://ictv.global/ictv/proposals/2024.001P.Fimoviridae_1nsp.zip.$

2024.002P.Alphaflexiviridae_7nsp

Title: Create seven new species in the family Alphaflexiviridae

Authors: Abrahamian P., Donaire L., Candresse T., Fox A., Hammond J., Hasiów-Jaroszewska B., Kreuze J., Rubino L., Aranda M.A. (m.aranda@cebas.csic.es)

Summary

Taxonomic rank(s) affected

Species

Description of current taxonomy

The family Alphaflexiviridae currently includes 65 virus species in genera Allexivirus (13), Botrexvirus (1), Lolavirus (1), Platypuvirus (1), Potexvirus (48) and Sclerodarnavirus (1).

Proposed taxonomic change(s)

Add seven (7) new virus species to genera *Allexivirus* (1), *Botrexvirus* (2) and *Potexvirus* (4) within the family *Alphaflexiviridae*. **Justification**

Throughout the family, isolates of viruses assigned to different species have less than 72% nucleotide identity (or 80% amino acid identity) among their respective coat protein or polymerase genes (or proteins). Viruses from different genera usually have <45% nucleotide identity in these genes. The nucleotide or amino acid sequences of viruses belonging to the seven newly proposed species fit well within these demarcation criteria.

Submitted: 14/06/24

Table 2. Alphaflexiviridae, 7 new taxa*

Operation	Rank	New taxon name	Virus name	Exemplar
New taxon	Species	Allexivirus rehmanniae	Rehmannia allexivirus	PP097219
New taxon	Species	Botrexvirus unosclerotiniae	Sclerotinia sclerotiorum alphaflexivirus 1	ON993219
New taxon	Species	Botrexvirus duosclerotiniae	Sclerotinia sclerotiorum alphaflexivirus 2	OQ865609
New taxon	Species	Potexvirus ecsadenii	Adenium obesum virus X	OR039325
New taxon	Species	Potexvirus chaenostomae	Chaenostoma potexvirus	OL979628
New taxon	Species	Potexvirus ecshibisci	Hibiscus virus X	PP115950
New taxon	Species	Potexvirus ecscaricae	papaya virus X	MN265368

^{*}Source/full text: https://ictv.global/ictv/proposals/2024.002P.Alphaflexiviridae_7nsp.zip.

2024.003P.Tospoviridae_2nsp

Title: Create two new species in the genus Orthotospovirus (Elliovirales: Tospoviridae)

Authors: Tomitaka Y., Shimomoto Y., Sasaya T. (tsasaya@affrc.go.jp)

Summary

Taxonomic rank(s) affected

Species

Description of current taxonomy

The family *Tospoviridae* currently includes 28 virus species in the genus *Orthotospovirus*.

Proposed taxonomic change(s)

Add two (2) new virus species to genus *Orthotospovirus* within the family *Tospoviridae*.

Justification

It is proposed that two (2) newly discovered tospovirids be classified into new species in the genus *Orthotospovirus* on the basis of species demarcation criteria in the amino acid sequence of the RNA-directed RNA polymerase and nucleocapsid protein. **Submitted:** 13/06/24

Table 3. Tospoviridae, 2 new taxa*

Operation	Rank	New taxon name	Virus name	Exemplar
New taxon	Species	Orthotospovirus eustomae	lisianthus necrotic ringspot virus	MF469045; MF469046; MF469047
New taxon	Species	Orthotospovirus fatsiae	Fatsia japonica ringspot-associated virus	LC626335; LC626336; LC626337

^{*}Source/full text: https://ictv.global/ictv/proposals/2024.003P.Tospoviridae_2nsp.zip.

2024.004P.Konkoviridae_1nsp

Title: Create one new species in the genus Olpivirus (Hareavirales: Konkoviridae)

Authors: Neriya Y., Schravesande W.E.W., van den Burg H.A., Verhage A., Tomitaka Y., Sasaya T. (tsasaya@affrc.go.jp)

Summary

Taxonomic rank(s) affected

Species

Description of current taxonomy

The family Konkoviridae currently includes one virus species in the genus Olpivirus.

Proposed taxonomic change(s)

Add one (1) new virus species to genus Olpivirus within the family Konkoviridae.

Justification

It is proposed that one (1) newly discovered konkovirid be classified into a new species in the genus *Olpivirus* on the basis of a species demarcation criterion of <95% identity in the amino acid sequence of the RNA-directed RNA polymerase.

Submitted: 13/06/24; Revised: 07/10/24

Table 4. Konkoviridae, 1 new taxon*

Operation	Rank	New taxon name	Virus name	Exemplar
New taxon	Species	Olpivirus lactucae	Lactuca big vein associated phlebovirus	RNA1: OR610326; RNA2: OR610327; RNA3: OR610328; RNA4: OR610329

^{*}Source/full text: https://ictv.global/ictv/proposals/2024.004P.Konkoviridae 1nsp.zip.

2024.005P.Caulimoviridae_3nsp

Title: Create three new species in the genus *Badnavirus* (*Ortervirales*: *Caulimoviridae*)

Authors: Umber M., Dasgupta I., Geering A.D.W., Hafrén A., Hull R., Kreuze J., Leisner S., Muller E., Pappu H., Pooggin M., Richert-Pöggeler K.R., Seal S., Stavolone L., Teycheney P.Y. (teycheney@cirad.fr)

Summary

Taxonomic rank(s) affected

Genus (Badnavirus)

Description of current taxonomy

The family *Caulimoviridae* [11] currently comprises 11 genera whose members share a similar genome organization. The molecular species demarcation criterion is <80% identity of nucleotide sequences in the reverse transcriptase/ribonuclease H region of the polymerase. Genus *Badnavirus* [12] currently includes 71 species and is the largest genus within the family *Caulimoviridae*.

Proposed taxonomic change(s)

Add three (3) new species to the genus Badnavirus (Badnavirus fatsiae, Badnavirus tetainflatheobromae and Badnavirus ziziphi). **Iustification**

Complete genomes of the exemplar members of the three proposed new species were sequenced and published recently. Their organizations are similar to those of other members of the genus *Badnavirus*. Phylogenetic analyses place them in this genus as distinct representatives of novel species.

Submitted: 14/06/2024

Table 5. Caulimoviridae, 3 new taxa*

Operation	Rank	New taxon name	Virus name	Exemplar
New taxon	Species	Badnavirus fatsiae	Fatsia badnavirus 1	OM540428
New taxon	Species	Badnavirus tetainflatheobromae	cacao swollen shoot Ghana T virus	MN179342
New taxon	Species	Badnavirus ziziphi	jujube badnavirus WS	OL739567

 $[*]Source/full\ text: https://ictv.global/ictv/proposals/2024.005P. Caulimoviridae_3nsp.zip.$

2024.006P.Kitaviridae_3nsp

Title: Create a new species in the genus Cilevirus and two in the genus Higrevirus, family Kitaviridae (Martellivirales)

Authors: Li C., An W., Zhang S., Cao M., Yang C. (xueyang27@126.com), Mohammadi M., Hosseini A., Nasrollanejad S., Roy A., Freitas-Astua J., Tiberini A., Li J.M., Ramos-González P.L.

Summary

Taxonomic rank(s) affected

Species

Description of current taxonomy

Family *Kitaviridae*, order *Martellivirales*, includes plant-infecting viruses having linear single-stranded (ss) positive-sense (+) segmented RNA genomes. Viruses in this family are assigned to the genera *Cilevirus*, *Higrevirus* or *Blunervirus* [13, 14].

Proposed taxonomic change(s)

Add three (3) new species to the family *Kitaviridae*, one (1) to the genus *Cilevirus* and two (2) to the genus *Higrevirus*.

Justification

The genomes of the three novel viruses show an arrangement that resembles that of kitavirids, and their core conserved proteins share relatively low amino acid sequence identities (<85%) with recognized members of the family *Kitaviridae*. In phylogenetic analyses, the three viruses group with characterized members of the genera *Cilevirus* and *Higrevirus*, but they

are well-separated and supported by bootstrap values >95%. All new species meet the already established or the demarcation criteria defined in this proposal.

Submitted: 11/06/2024

Table 6. Kitaviridae, 3 new taxa*

Operation	Rank	New taxon name	Virus name	Exemplar
New taxon	Species	Higrevirus amurense	Phellodendron-associated higre-like virus	RNA1: OP324809; RNA2: OP324810; RNA3: OP324811
New taxon	Species	Higrevirus pistaciae	pistachio virus X	RNA1: MT334620; RNA2: MT334619; RNA3: MT334618
New taxon	Species	Cilevirus pistaciae	pistachio virus Y	RNA1: MT362606; RNA2: MT362605

^{*}Source/full text: https://ictv.global/ictv/proposals/2024.006P.Kitaviridae_3nsp.zip.

2024.007P.Geminiviridae Capulavirus 1nsp

Title: Create one new species in the genus Capulavirus (Geplafuvirales: Geminiviridae)

Authors: Roumagnac P. (philippe.roumagnac@cirad.fr), Ascencio-Ibanez J., Lett J.-M., López-Lambertini P.M., Martin D.P., Navas-Castillo J., Ribeiro S., Urbino C., Varsani A., Zerbini F.M.

Summary

Taxonomic rank(s) affected

Genus (Capulavirus)

Description of current taxonomy

Monodnaviria: Shotokuvirae: Cressdnaviricota: Repensiviricetes: Geplafuvirales: Geminiviridae: Capulavirus.

Proposed taxonomic change(s)

Add one (1) new species to the genus Capulavirus (Capulavirus trifolii).

Justification

Similar to members of the *Capulavirus* genus, members of the proposed new species *Capulavirus trifolii* have the virion-strand origin of replication nonanucleotide motif 'TAATATTAC' and show a typical capulavirus genome organization, with putative multiple overlapping short ORFs (V3 and V4) upstream of the coat protein gene that encode putative movement proteins. In addition, genome-wide pairwise analysis of the representative genomes of capulaviruses showed that viruses in the species *Capulavirus trifolii* share <78% identity with all representative genomes of capulaviruses. Because 78% nucleotide identity is the genome-wide species demarcation threshold for capulaviruses, it was concluded that *Capulavirus trifolii* represents a new species in the genus *Capulavirus*.

Submitted: 10/06/24

Table 7. Geminiviridae, 1 new taxon*

Operation	Rank	New taxon name	Virus name	Exemplar
New taxon	Species	Capulavirus trifolii	Trifolium virus 1	MW698813

 $[*]Source/full\ text:\ https://ictv.global/ictv/proposals/2024.007P. Geminiviridae_Capulavirus_1 nsp.zip.$

2024.008P.Geminiviridae_Citlodavirus_2nsp

Title: Create two new species in the genus Citlodavirus (Geplafuvirales: Geminiviridae)

Authors: Roumagnac P. (philippe.roumagnac@cirad.fr), Ascencio-Ibanez J., Lett J.-M., López-Lambertini P.M., Martin D.P., Navas-Castillo J., Ribeiro S., Urbino C., Varsani A., Zerbini F.M.

Summary

Taxonomic rank(s) affected

Genus (Citlodavirus)

Description of current taxonomy

Monodnaviria: Shotokuvirae: Cressdnaviricota: Repensiviricetes: Geplafuvirales: Geminiviridae: Citlodavirus.

Proposed taxonomic change(s)

Add two (2) new species to genus Citlodavirus (Citlodavirus apijamaicaense and Citlodavirus myricae).

Iustification

Similar to members of the *Citlodavirus* genus, members of the proposed new species *Citlodavirus apijamaicaense* and *Citlodavirus myricae* have the virion-strand origin of replication nonanucleotide motif 'TAA TAT TAC', a relatively large genome (3,918 and 3,775 nt, respectively) and unique genome arrangements that, in both cases, include the putative *mp* gene (888 and 912 nt, respectively) that is similar in size to the *mp* gene in the DNA-B of bipartite begomoviruses. Genome-wide pairwise analysis of the representative genomes of citlodaviruses showed that viruses in the species *Citlodavirus apijamaicaense* and *Citlodavirus myricae* share <78% identity with all representative genomes of citlodaviruses and with each other. Since 78% nucleotide identity is the genome-wide species demarcation threshold for citlodaviruses, it has been concluded that *Citlodavirus apijamaicaense* and *Citlodavirus myricae* represent two new species in the genus *Citlodavirus*.

Submitted: 10/06/2024

Table 8. Geminiviridae, 2 new taxa*

Operation	Rank	New taxon name	Virus name	Exemplar
New taxon	Species	Citlodavirus apijamaicaense	apiscitlodal virus	PP467584
New taxon	Species	Citlodavirus myricae	Myrica rubra citlodavirus 1	OP374189

^{*}Source/full text: https://ictv.global/ictv/proposals/2024.008P.Geminiviridae_Citlodavirus_2nsp.zip.

2024.009P.Geminiviridae_Mastrevirus_5nsp

Title: Establish five new species in the genus Mastrevirus

Authors: Varsani A. (Arvind.varsani@asu.edu), Martin D.P., Roumagnac P., Ascencio-Ibanez J., Lett J.-M., López-Lambertini P.M., Navas-Castillo J., Ribeiro S., Urbino C., Zerbini F.M.

Summary

Taxonomic rank(s) affected

Species

Description of current taxonomy

Monodnaviria: Shotokuvirae: Cressdnaviricota: Repensiviricetes: Geplafuvirales: Geminiviridae: Mastrevirus. Within the genus Mastrevirus, viruses are classified into species based on a 78% genome-wide pairwise identity threshold [15].

Proposed taxonomic change(s)

Add five (5) new species to classify a suite of new mastreviruses that have been identified over the last year or so.

Justification

The members of the five new proposed species in the genus *Mastrevirus* share <78% genome-wide pairwise identity with sequences of members of currently established mastrevirus species.

Submitted: 10/06/24

Table 9. Geminiviridae, 5 new taxa*

Operation	Rank	New taxon name	Virus name	Exemplar
New taxon	Species	Mastrevirus urochloareunionense	Urochloa decumbens associated virus	OQ451139
New taxon	Species	Mastrevirus nomiae	nomiamastrel virus	PP467585
New taxon	Species	Mastrevirus brachypodiumprimi	Brachypodium phoenicoides associated virus $\boldsymbol{1}$	OR596402
New taxon	Species	Mastrevirus bothriochloae	Bothriochloa barbinodis associated virus	OR596403
New taxon	Species	Mastrevirus brachypodiumsecundi	Brachypodium phoenicoides associated virus 2	OR596405

^{*}Source/full text:https://ictv.global/ictv/proposals/2024.009P.Geminiviridae_Mastrevirus_5nsp.zip.

2024.010P.Geminiviridae_Begomovirus_18nsp

Title: Create 18 new species in the genus *Begomovirus* (*Geplafuvirales*: *Geminiviridae*)

Authors: Zerbini F.M. (zerbini@ufv.br), Ascencio-Ibanez J., Lett J.M., Navas-Castillo J., Urbino C., López-Lambertini P.M., Martin D.P., Ribeiro S.G., Roumagnac P., Varsani A.

Summary

Taxonomic rank(s) affected

Species in the genus *Begomovirus*

Description of current taxonomy

Monodnaviria: Shotokuvirae: Cressdnaviricota: Repensiviricetes: Geplafuvirales: Geminiviridae: Begomovirus. Within the genus Begomovirus, viruses are classified into species based on a 91% genome-wide (or DNA-A in the case of bipartite viruses) pairwise identity threshold [16].

Proposed taxonomic change(s)

Creation of 18 new species to classify new begomoviruses that have been identified and described in the literature over the last 3 years.

Justification

All 18 proposed new species have <91% genome-wide (or DNA-A in the case of bipartite viruses) pairwise identity with sequences of members of currently established begomovirus species.

Submitted: 10/06/24

Table 10. Begomovirus, 18 new taxa*

Operation	Rank	New taxon name	Virus name	Exemplar
New taxon	Species	Begomovirus chuxiongense	tomato leaf curl Chuxiong virus	OR543988
New taxon	Species	Begomovirus solanumaureusreti	tomato golden net virus	MT214095
New taxon	Species	Begomovirus solanumflavusreti	tomato yellow net virus	MT214096
New taxon	Species	Begomovirus whitaniae	Withania leaf curl virus	OP617239
New taxon	Species	Begomovirus cajani	Cajanus scarabaeoides yellow mosaic virus	OM397101; OM397102
New taxon	Species	Begomovirus hortuscrotoni	garden croton enation leaf curl virus	MW816855; MW816857
New taxon	Species	Begomovirus jatrophagunturense	Jatropha leaf curl Guntur virus	MZ217773
New taxon	Species	Begomovirus hyptidis	Hyptis golden mosaic virus	ON073795; ON073796
New taxon	Species	Begomovirus galii	Galium leaf distortion virus	OL689630
New taxon	Species	Begomovirus myanmarense	tobacco curly shoot Myanmar virus	MK920410
New taxon	Species	Begomovirus caboniensis	Cnidoscolus mild mosaic virus	MZ465527; MZ465585
New taxon	Species	Begomovirus pyrenacanthae	Pyrenacantha yellow mosaic virus	MZ390982; MZ390984
New taxon	Species	Begomovirus puerense	tobacco leaf curl Puer virus	MZ465370
New taxon	Species	Begomovirus solanumdistorsionis	tomato mottle leaf distortion virus	MW561191; MW650837
New taxon	Species	Begomovirus alceacrispi	hollyhock vein yellowing virus	LK028571
New taxon	Species	Begomovirus muntiflavi	Muntingia yellow spot virus	MW032664; MW032665
New taxon	Species	Begomovirus flavintervenae	tomato interveinal yellowing virus	MW057360
New taxon	Species	Begomovirus sidaflavitessellati	Sida yellow mosaic Gujarat virus	KX513859

^{*}Source/full text: https://ictv.global/ictv/proposals/2024.010P.Geminiviridae_Begomovirus_18nsp.zip.

2024.011P.Bromoviridae_4nsp

Title: Create four (4) new species in the genus *Ilarvirus* (*Martellivirales*: *Bromoviridae*)

Authors: Thompson J.R. (jeremy.thompson@mpi.govt.nz), Canto T., Carr J.P., Pallás V., Šafářová D.

Summary

Taxonomic rank(s) affected

Species

Description of current taxonomy

The family *Bromoviridae* currently includes 49 virus species in genera *Alfamovirus* (1), *Anulavirus* (4), *Bromovirus* (7), *Cucumovirus* (4), *Ilarvirus* (32) and *Oleavirus* (1).

Proposed taxonomic change(s)

Add four (4) new virus species to genus *Ilarvirus* within the family *Bromoviridae*.

Justification

This taxonomic proposal considers the recognition of four new virus species based on species demarcation criteria in the family *Bromoviridae*, genus *Ilarvirus* of 'serology, host range and sequence similarity'. In the absence of biological information, it is proposed that a refinement of the 'sequence similarity' criterion be made to require that members of different species display <85% amino acid identity for the complete RNA2-encoded 2a protein.

Submitted: 10/06/24; Revised: 07/10/24

Table 11. Bromoviridae. 4 new taxa*

Operation	Rank	New taxon name	Virus name	Exemplar
New taxon	Species	Ilarvirus ApNMV	apple necrotic mosaic virus	LC108993; LC108994; LC108995
New taxon	Species	Ilarvirus BabIV1	babaco ilarvirus 1	OQ256238; OQ256239; OQ256240
New taxon	Species	Ilarvirus TIV1	tomato ilarvirus 1	OL472057; OL472058; OL472059
New taxon	Species	Ilarvirus ToNSV	tomato necrotic spot virus	MH780154; MH780155; MH780156

^{*}Source/full text: https://ictv.global/ictv/proposals/2024.011P.Bromoviridae_4nsp.zip.

2024.012P.Potyviridae_1ng_10nsp

Title: Create 1 new genus (Phragmivirus) with 2 species and 8 new species in the genus Potyvirus (Patatavirales: Potyviridae)

Authors: Inoue-Nagata A.K. (alice.nagata@embrapa.br), Jordan R., Kreuze J.F., Li F., Lopez-Moya J.J., Mäkinen K., Ohshima K., Wylie S.J.

Summary

Taxonomic rank(s) affected

Genus within the family *Potyviridae* and species within the genus *Potyvirus* and the newly proposed genus *Phragmivirus* **Description of current taxonomy**

According to the ICTV Report chapter on *Potyviridae*, 12 genera are differentiated by biological criteria, mainly transmission by specific vectors, and by molecular data, in which members of different genera are <46% identical in nucleotide sequence. Members of different species have complete ORF sequences that are generally <76% identical in nucleotide sequence and <82% identical in amino acid sequence. In considering the evidence for new species or genera in the family *Potyviridae*, the Study Group will evaluate each new case based on complete- or near-complete genome sequence(s) together with host and biological characteristics.

Proposed taxonomic change(s)

Create one (1) new genus (*Phragmivirus*), two (2) new species in the genus *Phragmivirus* (*Phragmivirus* phragmii and *Phragmivirus* spartinae) and eight (8) new species in the genus *Potyvirus* (*Potyvirus* aconiti, *Potyvirus* puerariae, *Potyvirus* alilii, *Potyvirus* parisflavitessellati, *Potyvirus* catharanthiflavitessellati, *Potyvirus* polygonatimaculae, *Potyvirus* crocitessellati and *Potyvirus* galanthi).

Justification

The genomes of the proposed members in the new genus *Phragmivirus* share sequence identity below the threshold for genus differentiation in the family *Potyviridae*; members of the proposed species have a genome strategy typical of members of genus *Phragmivirus* (two species) and *Potyvirus* (eight species), and their nucleotide and amino acid sequences are below the threshold for species demarcation criteria for the genera.

Submitted: 11/06/24; Revised: 21/09/24

Table 12. Potyviridae, 11 new taxa*

Operation	Rank	New taxon name	Virus name	Exemplar
New taxon	Species	Potyvirus aconiti	Aconitum virus 2	MZ389235
New taxon	Species	Potyvirus puerariae	kudzu chlorotic ring blotch virus	OQ148665
New taxon	Species	Potyvirus alilii	lily virus A	OR879085
New taxon	Species	Potyvirus parisflavitessellati	Paris yunnanensis mosaic chlorotic virus	ON871824
New taxon	Species	Potyvirus catharanthiflavitessellati	periwinkle mild yellow mosaic virus	PP382205
New taxon	Species	Potyvirus polygonatimaculae	Polygonatum kingianum mottle virus	ON428226
New taxon	Species	Potyvirus crocitessellati	saffron yellow mosaic virus	OK632024
New taxon	Species	Potyvirus galanthi	snowdrop virus Y	OP871788
New taxon	Genus	Phragmivirus		
New taxon	Species	Phragmivirus phragmii	common reed chlorotic stripe virus	KY612317
New taxon	Species	Phragmivirus spartinae	Spartina mottle virus	MN788417

^{*}Source/full text: https://ictv.global/ictv/proposals/2024.012P.Potyviridae_1ng_10nsp.zip.

2024.013P.Secoviridae_1ng_2nsg_34nsp

Title: Create a new genus, two new subgenera and 34 new species in the family Secoviridae (Picornavirales)

Authors: Fuchs M. (mf13@cornell.edu), Hily J.-M., Petrzik K., Sanfaçon H., Stewart L., Thompson J.R., Van der Vlugt R.A.A., Wetzel T.

Summary

Taxonomic rank(s) affected

Genus, subgenus, species

Description of current taxonomy

The recognition of new virus species is based on demarcation criteria in the family Secoviridae of <75% amino acid sequence identity in the coat protein (CP)(s) and/or <80% amino acid sequence identity in the conserved protease (Pro)-polymerase (Pol) region (from the protease CG motif to the polymerase GDD motif) and/or distinct plant hosts and biological properties.

Proposed taxonomic change(s)

Create one (1) new genus (Mersevirus), two (2) new subgenera in the genus Waikavirus (Ritunrivirus and Actinidivirus), create two (2) new species in the genus Fabavirus (Fabavirus betavitis and Fabavirus cirsii), create four (4) new species in the new genus Mersevirus (Mersevirus mercurialis, Mersevirus paris, Mersevirus boehmeriae and Mersevirus jujubae), create two (2) new species in the genus Nepovirus (Nepovirus betaparis and Nepovirus mirae), create three (3) new species in the genus Sadwavirus (Sadwavirus cattleyae, Sadwavirus gymnemae and Sadwavirus chrysanthemi), create three (3) new species in the genus Torradovirus (Torradovirus physalis, Torradovirus nanorugosum and Torradovirus arctii) and create 20 new species in the genus Waikavirus (Waikavirus ajugae, Waikavirus anacycli, Waikavirus betacamelliae, Waikavirus eleocharis, Waikavirus hirtae, Waikavirus juglandis, Waikavirus ligustici, Waikavirus mertensiae, Waikavirus populi, Waikavirus pedicularis, Waikavirus primulae, Waikavirus querci, Waikavirus ranunculi, Waikavirus thymi, Waikavirus trifoccidentale, Waikavirus thapsiae, Waikavirus violae, Waikavirus carotae, Waikavirus celtis and Waikavirus pittospori).

Justification

The proposed new genus *Mersevirus* is based on the distinct genome organization of *Mersevirus mercurialis*, *Mersevirus paris*, *Mersevirus boehmeriae* and *Mersevirus jujubae* with a Ham1 domain with predicted inosine triphosphate pyrophosphatase activity at the C-terminus of the RNA-directed RNA polymerase – a feature unique among members of the family *Secoviridae* – and a grouping on a monophyletic clade of the amino acid sequence of the CPs and conserved Pro-Pol region. The proposed new subgenus *Ritunrivirus* is based on a statistically supported single lineage of 22 distinct species in the genus *Waikavirus* defined by the amino acid sequence of the combined three CPs and the conserved Pro-Pol region. The proposed new subgenus *Actinidivirus* is based on a statistically supported single lineage of 16 distinct species in the genus *Waikavirus* defined by the

amino acid sequence of the combined 3 CPs and conserved Pro-Pol region. The creation of the proposed new 34 species is based on <75% amino acid sequence identity in the CP(s) and/or <80% amino acid sequence identity in the conserved Pro-Pol region (from the protease CG motif to the polymerase GDD motif) compared with members of classified species of the family *Secoviridae*.

Submitted: 10/06/24; **Revised**: 11/10/24

Table 13. Secoviridae, 37 new taxa*

Operation	Rank	New taxon name	Virus name	Exemplar
New taxon	Genus	Mersevirus		
New taxon	Species	Mersevirus boehmeriae	Boehmeria nivea secovirus	BK061322; BK061323
New taxon	Species	Mersevirus jujubae	jujube-associated virus 1	MT375548; MT375547
New taxon	Species	Mersevirus mercurialis	Mercurialis secovirus 1	OR544055; OR544056
New taxon	Species	Mersevirus paris	Paris polyphylla secovirus 2	BK061330; BK061331
New taxon	Subgenus	Actinidivirus		
New taxon	Species	Waikavirus betacamelliae	Camellia virus B	BK062984
New taxon	Species	Waikavirus carotae	carrot psyllid-borne associated virus	OM801008
New taxon	Species	Waikavirus celtis	hackberry virus A	OP533794
New taxon	Species	Waikavirus hirtae	Ficus hirta waikavirus	BK062987
New taxon	Species	Waikavirus juglandis	Juglans nigra waikavirus	BK062989
New taxon	Species	Waikavirus pittospori	Pittosporum tobira virus	OR659471
New taxon	Species	Waikavirus populi	Populus alba waikavirus	BK062992
New taxon	Species	Waikavirus querci	Quercus robur waikavirus	BK062996
New taxon	Species	Waikavirus trifoccidentale	Trifolium occidentale waikavirus	BK063000
New taxon	Subgenus	Ritunrivirus		
New taxon	Species	Waikavirus ajugae	Ajuga reptans waikavirus	BK062980
New taxon	Species	Waikavirus anacycli	Anacyclus depressus waikavirus	BK062979
New taxon	Species	Waikavirus eleocharis	Eleocharis dulcis waikavirus	BK062986
New taxon	Species	Waikavirus ligustici	Ligusticum chuanxiong waikavirus	BK062990
New taxon	Species	Waikavirus mertensiae	Mertensia paniculata waikavirus	BK062991
New taxon	Species	Waikavirus pedicularis	Pedicularis rex waikavirus	BK062993
New taxon	Species	Waikavirus primulae	Primula vulgaris waikavirus	BK062995
New taxon	Species	Waikavirus ranunculi	Ranunculus cantoniensis waikavirus	BK062997
New taxon	Species	Waikavirus thapsiae	Thapsia villosa waikavirus	BK063001
New taxon	Species	Waikavirus thymi	Thymus vulgaris waikavirus	BK062999
New taxon	Species	Waikavirus violae	Viola inconspicua waikavirus	BK063002
New taxon	Species	Fabavirus betavitis	grapevine secovirus	OR947508; OR947509
New taxon	Species	Fabavirus cirsii	Cirsium virus A	OP794357; OP794358
New taxon	Species	Nepovirus betaparis	Paris polyphylla secovirus 1	BK061328; BK061329
New taxon	Species	Nepovirus mirae	Prunus mira virus A	BK064709; BK064710
New taxon	Species	Sadwavirus cattleyae	Cattleya purple ringspot virus	OR439368; OR439369

Continued

Table 13. Continued

Operation	Rank	New taxon name	Virus name	Exemplar
New taxon	Species	Sadwavirus gymnemae	Gymnema sylvestre virus 1	BK062888; BK062889
New taxon	Species	Sadwavirus chysanthemi	chrysanthemum sadwavirus	OR413567; OR413568
New taxon	Species	Torradovirus arctii	burdock mosaic virus	OQ087134; OQ087135
New taxon	Species	Torradovirus nanorugosum	potato rugose stunting virus	ON871623; ON871624
New taxon	Species	Torradovirus physalis	Physalis torrado virus	MZ357183; MZ357184

Table 14. Secoviridae, 13 move taxa*

Operation	Rank	Taxon name	Old parent taxon	New parent taxon
Move taxon	Species	Waikavirus actinidiae	Waikavirus	Subgenus Actinidivirus
Move taxon	Species	Waikavirus camelliae	Waikavirus	Subgenus Actinidivirus
Move taxon	Species	Waikavirus diospyri	Waikavirus	Subgenus Actinidivirus
Move taxon	Species	Waikavirus liegense	Waikavirus	Subgenus Actinidivirus
Move taxon	Species	Waikavirus rhododendri	Waikavirus	Subgenus Actinidivirus
Move taxon	Species	Waikavirus brassicae	Waikavirus	Subgenus Ritunrivirus
Move taxon	Species	Waikavirus campanulae	Waikavirus	Subgenus Ritunrivirus
Move taxon	Species	Waikavirus lactucae	Waikavirus	Subgenus Ritunrivirus
Move taxon	Species	Waikavirus oryzae	Waikavirus	Subgenus Ritunrivirus
Move taxon	Species	Waikavirus ribesnigri	Waikavirus	Subgenus Ritunrivirus
Move taxon	Species	Waikavirus rosae	Waikavirus	Subgenus Ritunrivirus
Move taxon	Species	Waikavirus trifolii	Waikavirus	Subgenus Ritunrivirus
Move taxon	Species	Waikavirus zeae	Waikavirus	Subgenus Ritunrivirus

^{*}Source/full text: https://ictv.global/ictv/proposals/2024.013P.Secoviridae_1ng_2nsg_34nsp.zip.

2024.014P.Rhabdoviridae_2nsp

Title: Create one new species in the genus *Alphanucleorhabdovirus* and one species in the genus *Betanucleorhabdovirus*, subfamily *Betarhabdovirinae* (*Mononegavirales: Rhabdoviridae*)

Authors: Bejerman N. (bejerman.nicolas@inta.gob.ar), Debat H., Dietzgen R., Freitas-Astua J., Kondo H., Ramos-Gonzalez P., Whitfield A., Walker P.

Summary

Taxonomic rank(s) affected

Species

Description of current taxonomy

Viruses classified in the genera *Alphanucleorhabdovirus* and *Betanucleorhabdovirus* infect a wide range of plants, and the assignment of viruses to these genera is based on the placement of the viruses on maximum likelihood trees inferred from complete L protein sequences.

Proposed taxonomic change(s)

Add one (1) new species to the genus *Alphanucleorhabdovirus* (*Alphanucleorhabdovirus babaci*) and one (1) new species in the genus *Betanucleorhabdovirus* (*Betanucleorhabdovirus paridis*).

Justification

Two novel rhabdoviruses were identified in babaco [17] and $Paris\ polyphylla\ [18]$. The characterization of both viruses showed that the babaco-associated virus should be classified as a novel species within the genus Alphanucleorhabdovirus, while the Pappen Pap

Submitted: 10/06/24

Table 15. Rhabdoviridae. 2 new taxa*

Operation	Rank	New taxon name	Virus name	Exemplar
New taxon	Species	Alphanucleorhabdovirus babaci	babaco nucleorhabdovirus 1	OQ256237
New taxon	Species	Betanucleorhabdovirus paridis	Paris yunnanensis rhabdovirus 1	OL439478

^{*}Source/full text; https://ictv.global/ictv/proposals/2024.014P.Rhabdoviridae_2nsp.zip

2024.015P.Rhabdoviridae_Cytorhabdovirus_splitgen

Title: Abolish one genus and create three new genera to include 98 new species in the subfamily *Betarhabdovirinae* (*Mononegavirales*: *Rhabdoviridae*)

Authors: Bejerman N. (bejerman.nicolas@inta.gob.ar), Debat H., Dietzgen R., Freitas-Astua J., Kondo H., Ramos-Gonzalez P., Whitfield A., Walker P.

Summary

Taxonomic rank(s) affected

Genus and species

Description of current taxonomy

Viruses classified in the genus *Cytorhabdovirus* infect a wide range of plants, and the assignment of viruses to this genus is based on the placement of the viruses on maximum likelihood trees inferred from complete L protein sequences.

Proposed taxonomic change(s)

Abolish the genus *Cytorhabdovirus* and add three (3) new genera (*Alphacytorhabdovirus*, *Betacytorhabdovirus* and *Gammacytorhabdovirus*), including 98 new species in the subfamily *Betarhabdovirinae* (*Mononegavirales*: *Rhabdoviridae*). Abolish four (4) *Cytorhabdovirus* species and reassign the remaining species to the new genera.

Justification

Recently, 98 new putative cytorhabdoviruses were discovered. The phylogenetic relationships of the now significantly expanded number of known cytorhabdoviruses provide support for splitting the genus *Cytorhabdovirus* into three genera that represent distinct evolutionary lineages to be named *Alphacytorhabdovirus*, *Betacytorhabdovirus* and *Gammacytorhabdovirus*. Also, it is proposed that four *Cytorhabdovirus* species be abolished based on the lack of sequence data for them.

Submitted: 10/06/24; Revised: 03/10/24

Table 16. Rhabdoviridae, 101 new taxa*. Table too large, see supplementary information sheet supp_info_tab_16

Table 17. Rhabdoviridae, 51 move; rename taxa*. Table too large, see supplementary information sheet supp_info_tab_17

Table 18. Rhabdoviridae, 4 abolish taxa*

Operation	Rank	Abolished taxon name
Abolish taxon	Species	Cytorhabdovirus brassicae
Abolish taxon	Species	Cytorhabdovirus festucae
Abolish taxon	Species	Cytorhabdovirus sonchi
Abolish taxon	Species	Cytorhabdovirus tritici

 $[*]Source/full\ text:\ https://ictv.global/ictv/proposals/2024.015P.Rhabdoviridae_Cytorhabdovirus_splitgen.zip.$

2024.016P.Rhabdoviridae_1ngen_5nsp

Title: Create one new genus to include five new species in the subfamily *Betarhabdovirinae* (*Mononegavirales: Rhabdoviridae*)

Authors: Bejerman N. (bejerman.nicolas@inta.gob.ar), Debat H., Dietzgen R.G., Freitas-Astua J., Kondo H., Ramos-Gonzalez P., Whitfield A., Walker P.

Summary

Taxonomic rank(s) affected

Genus and species

Description of current taxonomy

Almost all viruses classified in the subfamily *Betarhabdovirinae*, family *Rhabdoviridae*, are unsegmented, but plant-associated rhabdoviruses with bi-segmented genomes have also been identified and included in the genera *Varicosavirus* and *Dichorhavirus* within the subfamily *Betarhabdovirinae*. The assignment of viruses to these genera is based on the placement of the viruses on maximum likelihood trees inferred from complete L protein sequences.

Proposed taxonomic change(s)

Add one (1) new genus to include five (5) new species in the subfamily *Betarhabdovirinae*, family *Rhabdoviridae*. These new species (*Trirhavirus alni*, *Trirhavirus chrysanthemi*, *Trirhavirus erysimi*, *Trirhavirus medicagonis* and *Trirhavirus picridis*) are placed in a new genus named *Trirhavirus*.

Justification

Five novel rhabdoviruses were identified in *Alnus rubra*, *Chrysanthemum morifolium*, *Erysimum nevadense*, *Medicago sativa* and *Picris echioides* [19]. Unexpectedly, these five viruses have tri-segmented genomes, which represent the first tri-segmented genomes among rhabdoviruses. The characterization of these five viruses showed they should be classified as members of novel species within a novel genus within the subfamily *Betarhabdovirinae*, family *Rhabdoviridae*, for which the name *Trirhavirus* is proposed [19].

Submitted: 10/06/24

Table 19. Rhabdoviridae. 6 new taxa*

Operation	Rank	New taxon name	Virus name	Exemplar
New taxon	Genus	Trirhavirus		
New taxon	Species	Trirhavirus alni	Alnus trirhavirus 1	BK064247; BK064248; BK064249
New taxon	Species	Trirhavirus chrysanthemi	chrysanthemum trirhavirus 1	BK064250; BK064251; BK064252
New taxon	Species	Trirhavirus erysimi	Erysimum trirhavirus 1	BK064253; BK064254; BK064255
New taxon	Species	Trirhavirus medicagonis	Medicago trirhavirus	BK064256; BK064257; BK064258
New taxon	Species	Trirhavirus picridis	Picris trirhavirus 1	BK064259; BK064260; BK064261

^{*}Source/full text: https://ictv.global/ictv/proposals/2024.016P.Rhabdoviridae_1ngen_5nsp.zip.

2024.017P.Tombusviridae abolishsp

Title: Abolish five unassigned species in the family Tombusviridae

Authors: Scheets K. (kay.scheets@okstate.edu), Hernández C., Jordan R., Miller W.A., Prigigallo M.I., Rubino L.

Summary

Taxonomic rank(s) affected

Species in the family Tombusviridae

Description of current taxonomy

Ahlum waterborne virus, Bean mild mosaic virus, Chenopodium necrosis virus, Cucumber soil-borne virus and Weddel waterborne virus are currently classified as unassigned species in the family *Tombusviridae*.

Proposed taxonomic change(s)

Abolish five (5) species.

Justification

The proposed abolishment of these species is based on the lack of sequence data for them.

Submitted: 21/06/24

Table 20. Tombusviridae, 5 abolish taxa*

Operation	Rank	Abolished taxon name
Abolish taxon	Species	Ahlum waterborne virus
Abolish taxon	Species	Bean mild mosaic virus

Continued

Table 20. Continued

Operation	Rank	Abolished taxon name
Abolish taxon	Species	Chenopodium necrosis virus
Abolish taxon	Species	Cucumber soil-borne virus
Abolish taxon	Species	Weddel waterborne virus

^{*}Source/full text: https://ictv.global/ictv/proposals/2024.017P.Tombusviridae_abolishsp.zip.

2024.018P.Tombusviridae_1nsp

Title: Create one new species in the genus *Machlomovirus* (*Tolivirales*: *Tombusviridae*)

Authors: Maclot F., Massart S. (sebastien.massart@uliege.be)

Summary

Taxonomic rank(s) affected

Genus Machlomovirus (Tolivirales: Tombusviridae)

Description of current taxonomy

One virus species, Machlomovirus zeae, is currently described within the genus Machlomovirus.

Proposed taxonomic change(s)

Add a second species (*Machlomovirus liegense*) to the genus *Machlomovirus* to accommodate a recently identified virus in the wild grass common bent (*Agrostis capillaris*), tentatively named Poaceae Liege machlomovirus.

Justification

Analysis of Poaceae Liege machlomovirus genomic structure and phylogenetic analyses of its complete sequence and specific genes (polymerase and coat protein) placed this virus as a member of a novel species in the genus *Machlomovirus*.

Submitted: 21/06/24

Table 21. Tombusviridae, 1 new taxon*

Operation	Rank	New taxon name	Virus name	Exemplar
New taxon	Species	Machlomovirus liegense	Poaceae Liege machlomovirus	ON137711

^{*}Source/full text: https://ictv.global/ictv/proposals/2024.018P.Tombusviridae_1nsp.zip

2024.019P.Closteroviridae_1nsp

Title: Create one new species in the genus Velarivirus (order Martellivirales, family Closteroviridae)

Authors: Fontdevila N., Massart S. (sebastien.massart@uliege.be)

Summary

Taxonomic rank(s) affected

Genus Velarivirus (order Martellivirales, family Closteroviridae)

Description of current taxonomy

The family *Closteroviridae* comprises plant viruses with long, filamentous particles (650–2,200 nm in length) and large positive-sense RNA genomes (mono-, bi- or tripartite). There are 57 recognized species in the family, classified in 1 of the 7 existing genera (*Ampelovirus*, *Bluvavirus*, *Closterovirus*, *Crinivirus*, *Menthavirus*, *Olivavirus* and *Velarivirus*). Within the genus *Velarivirus*, there are currently eight recognized species.

Proposed taxonomic change(s)

The authors propose adding a ninth species in the genus *Velarivirus*, named *Velarivirus gembloutense*, to classify the recently identified virus Pyrus virus A in pear trees (*Pyrus communis* L.).

Justification

Analysis of the genomic structure of Pyrus virus A and subsequent phylogenetic analyses of the specific HSP70h gene placed this virus as a member of a novel species of the genus *Velarivirus* within the family *Closteroviridae*.

Submitted: 21/06/24; Revised: 07/10/24

Table 22. Closteroviridae, 1 new taxon*

Operation	Rank	New taxon name	Virus name	Exemplar
New taxon	Species	Velarivirus gembloutense	Pyrus virus A	OR887735

^{*}Source/full text: https://ictv.global/ictv/proposals/2024.019P.Closteroviridae_1nsp.zip.

2024.021P.Riboviria_1nord

Title: Create one new unassigned order in realm *Riboviria*, and three new families for four currently unassigned genera of plant satellite viruses

Authors: Krupovic M. (mart.krupovic@pasteur.fr), Fischer M.G., Kuhn J.H.

Summary

Taxonomic rank(s) affected

Species, genus, family

Description of current taxonomy

Riboviria: unassigned family Sarthroviridae and genera Albetovirus, Aumaivirus, Papanivirus and Virtovirus.

Proposed taxonomic change(s)

Riboviria: Tombendovirales to include family Sarthroviridae and two (2) new families, Pamosaviridae (Papanivirus) and Tomosaviridae (Virtovirus); Riboviria: Tonesaviridae (Albetovirus, Aumaivirus); renaming of all species in the four genera to fulfil the ICTV's binomial naming mandate.

Justification

Structural comparison of the satellite virus capsid proteins indicates that these viruses are not monophyletic and form two distinct assemblages.

Submitted: 21/06/24

Table 23. Riboviria, 6 rename taxa*

Operation	Rank	New taxon name	Previous taxon name
Rename taxon	Species	Papanivirus panici	Panicum papanivirus 1
Rename taxon	Species	Virtovirus tabaci	Tobacco virtovirus 1
Rename taxon	Species	Albetovirus alphatabaci	Tobacco albetovirus 1
Rename taxon	Species	Albetovirus betatabaci	Tobacco albetovirus 2
Rename taxon	Species	Albetovirus gammatabaci	Tobacco albetovirus 3
Rename taxon	Species	Aumaivirus maidis	Maize aumaivirus 1

Table 24. Riboviria, 5 move taxa*

Operation	Rank	Taxon name	New parent taxon	Old parent taxon
Move taxon	Family	Sarthroviridae	Tombendovirales	Riboviria
Move taxon	Genus	Papanivirus	Pamosaviridae	Riboviria
Move taxon	Genus	Virtovirus	Tomosaviridae	Riboviria
Move taxon	Genus	Albetovirus	Tonesaviridae	Riboviria
Move taxon	Genus	Aumaivirus	Tonesaviridae	Riboviria

Table 25. Riboviria, 4 new taxa*

Operation	Rank	New taxon name
New taxon	Order	Tombendovirales
New taxon	Family	Pamosaviridae

Continued

Table 25. Continued

Operation	Rank	New taxon name
New taxon	Family	Tomosaviridae
New taxon	Family	Tonesaviridae

^{*}Source/full text: https://ictv.global/ictv/proposals/2024.021P.Riboviria_1nord.zip.

2024.022P.Betaflexiviridae_abolishsp

Title: Abolish one unassigned species in the family *Betaflexiviridae*

Authors: Nagata T. (tatsuya@unb.br), Blouin A., Candresse T., Cao M., Cho W.K., Constable F., Sabanadzovic S., Saldarelli P., Tzanetakis I., Villamor D.

Summary

Taxonomic rank(s) affected

Species in the family Betaflexiviridae

Description of current taxonomy

Banana virus X is currently classified as an unassigned species in the family Betaflexiviridae.

Proposed taxonomic change(s)

Abolish one (1) species.

Justification

The proposed abolishment of this betaflexivirid species is based on the lack of Rep sequence data.

Submitted: 30/06/24

Table 26. Betaflexiviridae. 1 abolish taxon*

Operation	Rank	Abolished taxon name
Abolish taxon	Species	Banana virus X

^{*}Source/full text: https://ictv.global/ictv/proposals/2024.022P.Betaflexiviridae_abolishsp.zip.

2024.023P.Solemoviridae_rename_sp

Title: Rename two species in the genus Sobemovirus (family Solemoviridae)

Authors: Somera M. (merike.somera@taltech.ee), Fargette D., Filardo F., Ghafari M., Hebrard E., Sarmiento C., Thomas J.E.

Summary

Taxonomic rank(s) affected

Species

Description of current taxonomy

Riboviria: Orthornavirae: Pisuviricota: Pisoniviricetes: Sobelivirales: Solemoviridae: Sobemovirus: Cocksfoot mottle virus. Riboviria: Orthornavirae: Pisuviricota: Pisoniviricetes: Sobelivirales: Solemoviridae: Sobemovirus: Sobemovirus smamv.

Proposed taxonomic change(s)

Renaming of Cocksfoot mottle virus and Sobemovirus smamv.

Justification

Renaming of *Cocksfoot mottle virus* to fulfil the ICTV's binomial naming mandate. Renaming of *Sobemovirus smamv* for consistency with other species in the family *Solemoviridae*.

Submitted: 28/06/24; Revised: 07/10/24

Table 27. Solemoviridae, 2 rename taxa*

Operation	Rank	New taxon name	Previous taxon name
Rename taxon	Species	Sobemovirus CFMV	Cocksfoot mottle virus
Rename taxon	Species	Sobemovirus SMAMV	Sobemovirus smamv

 $[*]Source/full\ text: https://ictv.global/ictv/proposals/2024.023P. Solemoviridae_rename_sp.zip. A solution of the control of$

2024.024P.Tymoviridae_abolish_sp

Title: Abolish two unassigned species in the family Tymoviridae

Authors: Hammond R. (rose.hammond@usda.gov), Abrahamian P., Bejerman N., Mollov D., Nagata T., Sabanadzovic S.

Summary

Taxonomic rank(s) affected

Species in the family *Tymoviridae*

Description of current taxonomy

Bombyx mori latent virus and Poinsettia mosaic virus are currently classified as unassigned species in the family Tymoviridae.

Proposed taxonomic change(s)

Abolish two (2) species.

Justification

Bombyx mori latent virus and Poinsettia mosaic virus are unassigned species in the family *Tymoviridae* which cannot be assigned to a genus because of the lack of genome sequence. Therefore, it is not possible to comply with the ICTV mandate of a binomial format for virus species and it is proposed that these tymovirid species be abolished.

Submitted: 14/07/24

Table 28. Tymoviridae, 2 abolish taxa*

Operation	Rank	Abolished taxon name
Abolish taxon	Species	Bombyx mori latent virus
Abolish taxon	Species	Poinsettia mosaic virus

*Source/full text: https://ictv.global/ictv/proposals/2024.024P.Tymoviridae_abolish_sp.zip.

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Conflicts of interest

The authors declare that there are no conflicts of interest.

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