



## Recent changes to virus taxonomy ratified by the International Committee on Taxonomy of Viruses (2022)

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## Recent changes to virus taxonomy ratified by the International Committee on Taxonomy of Viruses (2022)

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### Abstract

This article reports the changes to virus taxonomy approved and ratified by the International Committee on Taxonomy of Viruses (ICTV) in March 2022. The entire ICTV was invited to vote on 174 taxonomic proposals approved by the ICTV Executive Committee at its annual meeting in July 2021. All proposals were ratified by an absolute majority of the ICTV members. Of note, the Study Groups have started to implement the new rule for uniform virus species naming that became effective in 2021 and mandates the binomial ‘Genus\_name species\_epithet’ format with or without Latinization. As a result of this ratification, the names of 6,481 virus species (more than 60 percent of all species names currently recognized by ICTV) now follow this format.

### 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 the ICTV Statutes (<https://ictv.global/statutes>), taxonomic proposals (TaxoProps) submitted to the ICTV Executive Committee (EC) undergo a review process that involves input from the ICTV Study Groups (SGs) and Subcommittees (SCs), other interested virologists, and the EC. After final approval by the EC, proposals are presented for ratification to the full ICTV membership by posting on the ICTV website (<https://ictv.global/>) followed by an electronic vote.

The latest set of proposals approved by the EC was made available on the ICTV website in early 2022 (see <https://ictv.global/proposal/MSL37/> for all proposals combined into a single zip file, and use the links provided in the References

to this publication to access individual proposals). A list of proposals was then emailed on 6<sup>th</sup> February 2022 to the 184 members of ICTV, namely the EC Members, Life Members, ICTV SC Members including the SG chairs and the Bioinformatics Expert Group members, and ICTV National Representatives. Members were then requested to vote on whether to ratify the taxonomic proposals. Voting closed on 11<sup>th</sup> March 2022.

### Changes to virus taxonomy ratified in 2022

All 174 proposals were ratified by ICTV members, in every case receiving an absolute majority of votes; at least 68% of eligible voters approved each proposal. A summary of the taxonomy changes enacted by ratification of the proposals is provided in Table 1; there were no proposals to change ICTV Code or ICTV Statutes this year. Each proposal is cited and listed in the References to acknowledge the authors’ efforts and to provide links to the specific proposal on the ICTV website [1–175]. These documents remain available for those who wish to see the full details of the proposals. TaxoProp 2020.002G, ratified in 2021 [175], specified a procedure for expedited correction of unintended errors that

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may occur during proposal writing but clearly do not reflect the intention of the proposers, as described in the submitted proposal documentation. Examples of such errors include assignment of a lower-rank taxon to an incorrect higher rank, inadvertent introduction of duplicate taxon names, or assignment of a misspelled taxon name. Since the changes ratified by ICTV take effect immediately, this mechanism was used to correct several proposals in the current cycle. The corrections are listed in proposals 2021.097B [101], 2021.014M [129], 2021.042M [150] and 2021.043M [151].

Another important change ratified in 2021 was the adoption of a uniform binomial format for naming of virus species [176]. The ICTV SGs have been charged with conversion of all existing virus species names to the new binomial format, and two groups of authors affiliated with ICTV have recently provided guidance on designing

and writing virus species' names [177]. With the ratification described here, 6,481 virus species out of 10,434 in the ICTV official Master Species List (MSL) adhere to the required binary format. The process of name conversion continues and is expected to be completed by the EC meeting planned for 2023. This system concerns only the names of virus species and does not affect the names of viruses [177].

Also of note, one proposal [107] established the family *Polydnaviriformidae*, the first high-order taxon comprising viriforms, the classifiable entities that were explicitly included in the ICTV remit in 2021. The list of all new orders and new families ratified in 2022 is provided in Table 2.

**Table 1** Summary of taxonomic changes approved in March 2022

Rank	Total, MSL-36 <sup>a</sup>	New	Moved	Abolished	Renamed	Promoted	Total, MSL-37 <sup>b</sup>
Realm	6	0	0	0	0	0	6
Subrealm	0	0	0	0	0	0	0
Kingdom	10	0	0	0	0	0	10
Subkingdom	0	0	0	0	0	0	0
Phylum	17	0	0	0	0	0	17
Subphylum	2	0	0	0	0	0	2
Class	39	0	0	0	0	0	39
Subclass	0	0	0	0	0	0	0
Order	59	7	0	1	0	0	65
Suborder	8	0	0	0	0	0	8
Family	189	48 <sup>c</sup>	11	4	1	0	233
Subfamily	136	37	32	2	0	3	168
Genus	2,224	390	571	8	5	0	2,606
Subgenus	70	14	0	0	0	0	84
Species	9,110	1,342	103	18	3,354	0	10,434

<sup>a</sup>Total number of taxa in the ICTV Master Species List (MSL) prior to 2022 ratification

<sup>b</sup>Total number of taxa now recognized and reported in the ICTV MSL

<sup>c</sup>Includes three families promoted from subfamily

**Table 2** New orders and families ratified by ICTV in 2022

Lineage	Taxon History Page
New orders	
<i>Duplodnaviria;Heunggongvirae;Uroviricota;Caudoviricetes;Crassvirales</i>	<a href="https://ictv.global/taxonomy/p/taxonomy-history?taxnode_id=202113057">https://ictv.global/taxonomy/p/taxonomy-history?taxnode_id=202113057</a>
<i>Duplodnaviria;Heunggongvirae;Uroviricota;Caudoviricetes;Kirjokansivirales</i>	<a href="https://ictv.global/taxonomy/p/taxonomy-history?taxnode_id=202112155">https://ictv.global/taxonomy/p/taxonomy-history?taxnode_id=202112155</a>
<i>Duplodnaviria;Heunggongvirae;Uroviricota;Caudoviricetes;Methanobavirales</i>	<a href="https://ictv.global/taxonomy/p/taxonomy-history?taxnode_id=202112156">https://ictv.global/taxonomy/p/taxonomy-history?taxnode_id=202112156</a>
<i>Duplodnaviria;Heunggongvirae;Uroviricota;Caudoviricetes;Thumleimavirales</i>	<a href="https://ictv.global/taxonomy/p/taxonomy-history?taxnode_id=202112154">https://ictv.global/taxonomy/p/taxonomy-history?taxnode_id=202112154</a>
<i>Monodnaviria;Shotokuvirae;Cressdnnaviricota;Arfiviricetes;Rivendellvirales</i>	<a href="https://ictv.global/taxonomy/p/taxonomy-history?taxnode_id=202113282">https://ictv.global/taxonomy/p/taxonomy-history?taxnode_id=202113282</a>
<i>Monodnaviria;Shotokuvirae;Cressdnnaviricota;Arfiviricetes;Rohanvirales</i>	<a href="https://ictv.global/taxonomy/p/taxonomy-history?taxnode_id=202113293">https://ictv.global/taxonomy/p/taxonomy-history?taxnode_id=202113293</a>
<i>Riboviria;Orthornavirae;Pisuviricota;Yadokarivirales</i>	<a href="https://ictv.global/taxonomy/p/taxonomy-history?taxnode_id=202112466">https://ictv.global/taxonomy/p/taxonomy-history?taxnode_id=202112466</a>
New families	
<i>Adnaviria;Zilligvirae;Taleaviricota;Tokiviricetes;Ligamenvirales;Ungulaviridae</i>	<a href="https://ictv.global/taxonomy/p/taxonomy-history?taxnode_id=202112214">https://ictv.global/taxonomy/p/taxonomy-history?taxnode_id=202112214</a>
<i>Duplodnaviria;Heunggongvirae;Uroviricota;Caudoviricetes;Aggregaviridae</i>	<a href="https://ictv.global/taxonomy/p/taxonomy-history?taxnode_id=202113573">https://ictv.global/taxonomy/p/taxonomy-history?taxnode_id=202113573</a>
<i>Duplodnaviria;Heunggongvirae;Uroviricota;Caudoviricetes;Methanobavirales;Anaerodiviridae</i>	<a href="https://ictv.global/taxonomy/p/taxonomy-history?taxnode_id=202112170">https://ictv.global/taxonomy/p/taxonomy-history?taxnode_id=202112170</a>
<i>Duplodnaviria;Heunggongvirae;Uroviricota;Caudoviricetes;Assiduviridae</i>	<a href="https://ictv.global/taxonomy/p/taxonomy-history?taxnode_id=202113549">https://ictv.global/taxonomy/p/taxonomy-history?taxnode_id=202113549</a>
<i>Duplodnaviria;Heunggongvirae;Uroviricota;Caudoviricetes;Casjensviridae</i>	<a href="https://ictv.global/taxonomy/p/taxonomy-history?taxnode_id=202112984">https://ictv.global/taxonomy/p/taxonomy-history?taxnode_id=202112984</a>
<i>Duplodnaviria;Heunggongvirae;Uroviricota;Caudoviricetes;Crassvirales;Crevaviridae</i>	<a href="https://ictv.global/taxonomy/p/taxonomy-history?taxnode_id=202113058">https://ictv.global/taxonomy/p/taxonomy-history?taxnode_id=202113058</a>
<i>Duplodnaviria;Heunggongvirae;Uroviricota;Caudoviricetes;Dunenviridae</i>	<a href="https://ictv.global/taxonomy/p/taxonomy-history?taxnode_id=202113559">https://ictv.global/taxonomy/p/taxonomy-history?taxnode_id=202113559</a>
<i>Duplodnaviria;Heunggongvirae;Uroviricota;Caudoviricetes;Kirjokansivirales;Flexireviridae</i>	<a href="https://ictv.global/taxonomy/p/taxonomy-history?taxnode_id=202112168">https://ictv.global/taxonomy/p/taxonomy-history?taxnode_id=202112168</a>
<i>Duplodnaviria;Heunggongvirae;Uroviricota;Caudoviricetes;Forsetiviridae</i>	<a href="https://ictv.global/taxonomy/p/taxonomy-history?taxnode_id=202113569">https://ictv.global/taxonomy/p/taxonomy-history?taxnode_id=202113569</a>
<i>Duplodnaviria;Heunggongvirae;Uroviricota;Caudoviricetes;Thumleimavirales;Hafunaviridae</i>	<a href="https://ictv.global/taxonomy/p/taxonomy-history?taxnode_id=202112161">https://ictv.global/taxonomy/p/taxonomy-history?taxnode_id=202112161</a>
<i>Duplodnaviria;Heunggongvirae;Uroviricota;Caudoviricetes;Kirjokansivirales;Haloferuviridae</i>	<a href="https://ictv.global/taxonomy/p/taxonomy-history?taxnode_id=202112165">https://ictv.global/taxonomy/p/taxonomy-history?taxnode_id=202112165</a>
<i>Duplodnaviria;Heunggongvirae;Uroviricota;Caudoviricetes;Thumleimavirales;Halomagnusviridae</i>	<a href="https://ictv.global/taxonomy/p/taxonomy-history?taxnode_id=202112164">https://ictv.global/taxonomy/p/taxonomy-history?taxnode_id=202112164</a>
<i>Duplodnaviria;Heunggongvirae;Uroviricota;Caudoviricetes;Helgolandviridae</i>	<a href="https://ictv.global/taxonomy/p/taxonomy-history?taxnode_id=202113556">https://ictv.global/taxonomy/p/taxonomy-history?taxnode_id=202113556</a>
<i>Duplodnaviria;Heunggongvirae;Uroviricota;Caudoviricetes;Crassvirales;Intestiviridae</i>	<a href="https://ictv.global/taxonomy/p/taxonomy-history?taxnode_id=202113059">https://ictv.global/taxonomy/p/taxonomy-history?taxnode_id=202113059</a>
<i>Duplodnaviria;Heunggongvirae;Uroviricota;Caudoviricetes;Kyanoviridae</i>	<a href="https://ictv.global/taxonomy/p/taxonomy-history?taxnode_id=202113665">https://ictv.global/taxonomy/p/taxonomy-history?taxnode_id=202113665</a>
<i>Duplodnaviria;Heunggongvirae;Uroviricota;Caudoviricetes;Methanobavirales;Leisingerviridae</i>	<a href="https://ictv.global/taxonomy/p/taxonomy-history?taxnode_id=202112169">https://ictv.global/taxonomy/p/taxonomy-history?taxnode_id=202112169</a>
<i>Duplodnaviria;Heunggongvirae;Uroviricota;Caudoviricetes;Madisaviridae</i>	<a href="https://ictv.global/taxonomy/p/taxonomy-history?taxnode_id=202112160">https://ictv.global/taxonomy/p/taxonomy-history?taxnode_id=202112160</a>
<i>Duplodnaviria;Heunggongvirae;Uroviricota;Caudoviricetes;Mesyanzhinoviridae</i>	<a href="https://ictv.global/taxonomy/p/taxonomy-history?taxnode_id=202112407">https://ictv.global/taxonomy/p/taxonomy-history?taxnode_id=202112407</a>
<i>Duplodnaviria;Heunggongvirae;Uroviricota;Caudoviricetes;Molycolviridae</i>	<a href="https://ictv.global/taxonomy/p/taxonomy-history?taxnode_id=202113562">https://ictv.global/taxonomy/p/taxonomy-history?taxnode_id=202113562</a>

**Table 2** (continued)

Lineage	Taxon History Page
<i>Duplodnaviria;Heunggongvirae;Uroviricota;Caudoviricetes;Naomviridae</i>	<a href="https://ictv.global/taxonomy/p/taxonomy-history?taxnode_id=202112771">https://ictv.global/taxonomy/p/taxonomy-history?taxnode_id=202112771</a>
<i>Duplodnaviria;Heunggongvirae;Uroviricota;Caudoviricetes;Orljensenviridae</i>	<a href="https://ictv.global/taxonomy/p/taxonomy-history?taxnode_id=202112790">https://ictv.global/taxonomy/p/taxonomy-history?taxnode_id=202112790</a>
<i>Duplodnaviria;Heunggongvirae;Uroviricota;Caudoviricetes;Pachyviridae</i>	<a href="https://ictv.global/taxonomy/p/taxonomy-history?taxnode_id=202113536">https://ictv.global/taxonomy/p/taxonomy-history?taxnode_id=202113536</a>
<i>Duplodnaviria;Heunggongvirae;Uroviricota;Caudoviricetes;Peduoviridae</i>	<a href="https://ictv.global/taxonomy/p/taxonomy-history?taxnode_id=202100225">https://ictv.global/taxonomy/p/taxonomy-history?taxnode_id=202100225</a>
<i>Duplodnaviria;Heunggongvirae;Uroviricota;Caudoviricetes;Pervagoviridae</i>	<a href="https://ictv.global/taxonomy/p/taxonomy-history?taxnode_id=202113545">https://ictv.global/taxonomy/p/taxonomy-history?taxnode_id=202113545</a>
<i>Duplodnaviria;Heunggongvirae;Uroviricota;Caudoviricetes;Kirjokansivales;Pyrstoviridae</i>	<a href="https://ictv.global/taxonomy/p/taxonomy-history?taxnode_id=202112166">https://ictv.global/taxonomy/p/taxonomy-history?taxnode_id=202112166</a>
<i>Duplodnaviria;Heunggongvirae;Uroviricota;Caudoviricetes;Thumleimavirales;Queuviridae</i>	<a href="https://ictv.global/taxonomy/p/taxonomy-history?taxnode_id=202112162">https://ictv.global/taxonomy/p/taxonomy-history?taxnode_id=202112162</a>
<i>Duplodnaviria;Heunggongvirae;Uroviricota;Caudoviricetes;Saparoviridae</i>	<a href="https://ictv.global/taxonomy/p/taxonomy-history?taxnode_id=202112159">https://ictv.global/taxonomy/p/taxonomy-history?taxnode_id=202112159</a>
<i>Duplodnaviria;Heunggongvirae;Uroviricota;Caudoviricetes;Kirjokansivales;Shortaselviridae</i>	<a href="https://ictv.global/taxonomy/p/taxonomy-history?taxnode_id=202112167">https://ictv.global/taxonomy/p/taxonomy-history?taxnode_id=202112167</a>
<i>Duplodnaviria;Heunggongvirae;Uroviricota;Caudoviricetes;Thumleimavirales;Soleiviridae</i>	<a href="https://ictv.global/taxonomy/p/taxonomy-history?taxnode_id=202112163">https://ictv.global/taxonomy/p/taxonomy-history?taxnode_id=202112163</a>
<i>Duplodnaviria;Heunggongvirae;Uroviricota;Caudoviricetes;Crassvirales;Steigviridae</i>	<a href="https://ictv.global/taxonomy/p/taxonomy-history?taxnode_id=202113060">https://ictv.global/taxonomy/p/taxonomy-history?taxnode_id=202113060</a>
<i>Duplodnaviria;Heunggongvirae;Uroviricota;Caudoviricetes;Straboviridae</i>	<a href="https://ictv.global/taxonomy/p/taxonomy-history?taxnode_id=202113666">https://ictv.global/taxonomy/p/taxonomy-history?taxnode_id=202113666</a>
<i>Duplodnaviria;Heunggongvirae;Uroviricota;Caudoviricetes;Suolaviridae</i>	<a href="https://ictv.global/taxonomy/p/taxonomy-history?taxnode_id=202112158">https://ictv.global/taxonomy/p/taxonomy-history?taxnode_id=202112158</a>
<i>Duplodnaviria;Heunggongvirae;Uroviricota;Caudoviricetes;Crassvirales;Suolaviridae</i>	<a href="https://ictv.global/taxonomy/p/taxonomy-history?taxnode_id=202113061">https://ictv.global/taxonomy/p/taxonomy-history?taxnode_id=202113061</a>
<i>Duplodnaviria;Heunggongvirae;Uroviricota;Caudoviricetes;Vertoviridae</i>	<a href="https://ictv.global/taxonomy/p/taxonomy-history?taxnode_id=202112157">https://ictv.global/taxonomy/p/taxonomy-history?taxnode_id=202112157</a>
<i>Duplodnaviria;Heunggongvirae;Uroviricota;Caudoviricetes;Vilmaviridae</i>	<a href="https://ictv.global/taxonomy/p/taxonomy-history?taxnode_id=202112658">https://ictv.global/taxonomy/p/taxonomy-history?taxnode_id=202112658</a>
<i>Duplodnaviria;Heunggongvirae;Uroviricota;Caudoviricetes;Winoviridae</i>	<a href="https://ictv.global/taxonomy/p/taxonomy-history?taxnode_id=202113566">https://ictv.global/taxonomy/p/taxonomy-history?taxnode_id=202113566</a>
<i>Duplodnaviria;Heunggongvirae;Uroviricota;Caudoviricetes;Zierdtviridae</i>	<a href="https://ictv.global/taxonomy/p/taxonomy-history?taxnode_id=202113388">https://ictv.global/taxonomy/p/taxonomy-history?taxnode_id=202113388</a>
<i>Monodnaviria;Shotokuvirae;Cressdnnaviricota;Arfiviricetes;Rivendellvirales;Naryaviridae</i>	<a href="https://ictv.global/taxonomy/p/taxonomy-history?taxnode_id=202113283">https://ictv.global/taxonomy/p/taxonomy-history?taxnode_id=202113283</a>
<i>Monodnaviria;Shotokuvirae;Cressdnnaviricota;Arfiviricetes;Rohanvirales;Nenyaviridae</i>	<a href="https://ictv.global/taxonomy/p/taxonomy-history?taxnode_id=202113294">https://ictv.global/taxonomy/p/taxonomy-history?taxnode_id=202113294</a>
<i>Monodnaviria;Shotokuvirae;Cressdnnaviricota;Arfiviricetes;Cirlivirales;Vilyaviridae</i>	<a href="https://ictv.global/taxonomy/p/taxonomy-history?taxnode_id=202113251">https://ictv.global/taxonomy/p/taxonomy-history?taxnode_id=202113251</a>
<i>Varidnaviria;Bamfordvirae;Yaraviridae</i>	<a href="https://ictv.global/taxonomy/p/taxonomy-history?taxnode_id=202112528">https://ictv.global/taxonomy/p/taxonomy-history?taxnode_id=202112528</a>
<i>Riboviria;Orthornavirae;Negarnaviricota;Polyploviricotina;Ellioviricetes;Bunyavirales;Discoviridae</i>	<a href="https://ictv.global/taxonomy/p/taxonomy-history?taxnode_id=202112952">https://ictv.global/taxonomy/p/taxonomy-history?taxnode_id=202112952</a>
<i>Riboviria;Orthornavirae;Pisuviricota;Duploploviricetes;Durnavirales;Fusariviridae</i>	<a href="https://ictv.global/taxonomy/p/taxonomy-history?taxnode_id=202113711">https://ictv.global/taxonomy/p/taxonomy-history?taxnode_id=202113711</a>
<i>Riboviria;Orthornavirae;Pisuviricota;Hadakaviridae</i>	<a href="https://ictv.global/taxonomy/p/taxonomy-history?taxnode_id=202112463">https://ictv.global/taxonomy/p/taxonomy-history?taxnode_id=202112463</a>
<i>Riboviria;Orthornavirae;Duplornaviricota;Resentoviricetes;Reovirales;Sendoreoviridae</i>	<a href="https://ictv.global/taxonomy/p/taxonomy-history?taxnode_id=202104872">https://ictv.global/taxonomy/p/taxonomy-history?taxnode_id=202104872</a>
<i>Riboviria;Orthornavirae;Duplornaviricota;Resentoviricetes;Reovirales;Spinareoviridae</i>	<a href="https://ictv.global/taxonomy/p/taxonomy-history?taxnode_id=202104918">https://ictv.global/taxonomy/p/taxonomy-history?taxnode_id=202104918</a>

**Table 2** (continued)

Lineage	Taxon History Page
<i>Riboviria; Orthornavirae; Negarnaviricota; Polyploviricotina; Ellioviricetes</i> ;Bunyavirales; Tulasviridae	<a href="https://ictv.global/taxonomy/p/taxonomy-history?taxnode_id=202112959">https://ictv.global/taxonomy/p/taxonomy-history?taxnode_id=202112959</a>
<i>Riboviria; Orthornavirae; Pisuviricota; Yadokarivirales; Yadokariviridae</i>	<a href="https://ictv.global/taxonomy/p/taxonomy-history?taxnode_id=202112467">https://ictv.global/taxonomy/p/taxonomy-history?taxnode_id=202112467</a>

## Conclusion

All proposals submitted for ratification were ratified by an absolute majority of the ICTV, and the changes are now part of official ICTV taxonomy. An up-to-date list of all approved taxa, which now includes 10,434 virus species, can be found on the ICTV website: see <https://ictv.global/msl/> for the MSL and <https://ictv.global/vmr/> for the Virus Metadata Resource (VMR) that provides an exemplar virus isolate for each species along with the GenBank accession number of the isolate.

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## Declarations

**Conflict of interest** The authors declare no conflicts of interest.

**Ethical approval** None of the work reported involved research on human participants or animals.

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79. Uchiyama J, Turner D, Tolstoy I, Kropinski AM (2021) Create one new genus (*Sagamiharavirus*) including one new species (*Caudoviricetes*) <https://ictv.global/ictv/proposals/2021.074B.R.Sagamiharavirus.zip>
80. Turner D, Tolstoy I, Kropinski AM (2021) Create one new genus (*Santafevirus*) including one new species (*Caudoviricetes*) <https://ictv.global/ictv/proposals/2021.075B.R.Santafevirus.zip>
81. Wittmann J, Adriaenssens EM, Turner D, Moraru C (2021) Create seven new genera (*Efbeeckavirus*, *Penintadodekavirus*, *Vicoquintavirus*, *Trioduvirus*, *Exceevirus*, *Electravirus*, *Glau-cusvirus*) including nine new species (*Schitoviridae*) [https://ictv.global/ictv/proposals/2021.076B.R.Schitoviridae\\_new\\_genera.zip](https://ictv.global/ictv/proposals/2021.076B.R.Schitoviridae_new_genera.zip)
82. Turner D, Tolstoy I, Kropinski AM (2021) Create one new genus (*Sheenvirus*) including one new species (*Caudoviricetes*) <https://ictv.global/ictv/proposals/2021.077B.R.Sheenvirus.zip>
83. Turner D, Moraru C, Tolstoy I, Adriaenssens EM, Kropinski AM (2021) Create eleven new genera including 19 new species (*Caudoviricetes*) [https://ictv.global/ictv/proposals/2021.078B.R.Siphoviridae\\_new\\_genera.zip](https://ictv.global/ictv/proposals/2021.078B.R.Siphoviridae_new_genera.zip)
84. Turner D, Tolstoy I, Kropinski AM (2021) Create one new genus (*Skogvirus*) including one new species (*Caudoviricetes*) <https://ictv.global/ictv/proposals/2021.079B.R.Skogvirus.zip>
85. Tolstoy I, Turner D, Moraru C, Varsani A, Adriaenssens EM, Kropinski AM (2021) Create one new subfamily (*Stephanstirmvirinae*) including two genera and 14 new species (*Caudoviricetes*) <https://ictv.global/ictv/proposals/2021.080B.R.Stephanstirmvirinae.zip>
86. Turner D, Tolstoy I, Kropinski AM (2021) Create one new genus (*Stormageddonvirus*) including one new species (*Caudoviricetes*) <https://ictv.global/ictv/proposals/2021.081B.R.Stormageddonvirus.zip>
87. Millard A, Puxty R, White D, Gannon L, Harrison C, Cook R, Adriaenssens EM, Turner D (2021) Create two new families (*Kyanoviridae* and *Straboviridae*) (*Caudoviricetes*) [https://ictv.global/ictv/proposals/2021.082B.R.Tevens\\_new\\_families.zip](https://ictv.global/ictv/proposals/2021.082B.R.Tevens_new_families.zip)
88. Turner D, Tolstoy I, Kropinski AM (2021) Create one new genus (*Timshelvirus*) containing four species (*Caudoviricetes*) <https://ictv.global/ictv/proposals/2021.083B.R.Timshelvirus.zip>
89. Turner D, Tolstoy I, Kropinski AM (2021) Create one new species in the genus *Trigintaduovirus* (*Caudoviricetes*) [https://ictv.global/ictv/proposals/2021.084B.R.Trigintaduovirus\\_new\\_species.zip](https://ictv.global/ictv/proposals/2021.084B.R.Trigintaduovirus_new_species.zip)
90. Knezevic P, Adriaenssens EM, Kropinski AM, Lavigne R (2021) Create four genera including 16 new species in the family *Inoviridae*, and one new genus including one new species in the family *Plectroviridae* (*Tubulavirales*) <https://ictv.global/ictv/proposals/2021.085B.R.Tubulavirales.zip>
91. Turner D, Tolstoy I, Kropinski AM (2021) Create one new genus (*Turbidovirus*) including 13 species (*Caudoviricetes*) <https://ictv.global/ictv/proposals/2021.086B.R.Turbidovirus.zip>
92. Tolstoy I, Turner D, Kropinski AM (2021) Create one new genus (*Typhavirus*) including one new species (*Caudoviricetes*) <https://ictv.global/ictv/proposals/2021.087B.R.Typhavirus.zip>
93. Turner D, Tolstoy I, Kropinski AM (2021) Create one new genus (*Veracruzivirus*) including eight species (*Caudoviricetes*) <https://ictv.global/ictv/proposals/2021.088B.R.Veracruzivirus.zip>
94. Tolstoy I, Moraru C, Turner D, Adriaenssens EM, Kropinski AM (2021) Create one new family (*Vilmaviridae*) including one new subfamily (*Lclasvirinae*) and one subfamily (*Mclasvirinae*) moved from the family *Siphoviridae* (*Caudoviricetes*) <https://ictv.global/ictv/proposals/2021.089B.R.Vilmaviridae.zip>
95. Moraru C, Turner D, Tolstoy I, Kropinski AM (2021) Create 16 new species in the genus *Vividuovirus* (*Caudoviricetes*) [https://ictv.global/ictv/proposals/2021.090B.R.Vividuovirus\\_new\\_species.zip](https://ictv.global/ictv/proposals/2021.090B.R.Vividuovirus_new_species.zip)
96. Turner D, Moraru C, Tolstoy I, Adriaenssens EM, Kropinski AM (2021) Create one new subfamily (*Weiservirinae*) including eight genera (*Caudoviricetes*) <https://ictv.global/ictv/proposals/2021.091B.R.Weiservirinae.zip>
97. Moraru C, Turner D, Tolstoy I, Kropinski AM (2021) Create 17 new species in the genus *Wizardvirus* (*Caudoviricetes*) [https://ictv.global/ictv/proposals/2021.092B.R.Wizardvirus\\_new\\_species.zip](https://ictv.global/ictv/proposals/2021.092B.R.Wizardvirus_new_species.zip)
98. Turner D, Tolstoy I, Kropinski AM (2021) Create one new genus (*Yeceytrevirus*) including one new species (*Caudoviricetes*) <https://ictv.global/ictv/proposals/2021.093B.R.Yeceytrevirus.zip>
99. Turner D, Moraru C, Adriaenssens EM, Kropinski AM (2021) Create one new family (*Zierdtviridae*) including two new subfamilies (*Emilbogenvirinae* and *Toshachvirinae*) and eight genera (*Caudoviricetes*) <https://ictv.global/ictv/proposals/2021.094B.R.Zierdtviridae.zip>
100. Moraru C, Turner D, Tolstoy I, Kropinski AM (2021) Create one new genus (*Zitchvirus*) including three new species (*Caudoviricetes*) <https://ictv.global/ictv/proposals/2021.095B.R.Zitchvirus.zip>
101. Adriaenssens EM, Turner D (2021) Error correction (*Caudoviricetes*) [https://ictv.global/ictv/proposals/2021.097B.R.error\\_correction\\_Caudoviricetes.zip](https://ictv.global/ictv/proposals/2021.097B.R.error_correction_Caudoviricetes.zip)
102. Duarte MA, Silva JMF, Brito CR, Teixeira DS, Melo FL, Ribeiro BM, Nagata T, Campos FS (2021) Create one new species in the genus *Aviadenovirus* (*Rowavirales: Adenoviridae*) [https://ictv.global/ictv/proposals/2021.001D.R.Adenoviridae\\_1nsp.zip](https://ictv.global/ictv/proposals/2021.001D.R.Adenoviridae_1nsp.zip)
103. Fisher M, Harrison T, Nebroski M, Kruczakiewicz P, Davies J, Lung O (2021) Create one new species in the genus *Mutorquevirus* (*Anelloviridae*) [https://ictv.global/ictv/proposals/2021.002D.R.Anelloviridae\\_1nsp.zip](https://ictv.global/ictv/proposals/2021.002D.R.Anelloviridae_1nsp.zip)
104. Varsani A, Kraberger S (2021) Abolish one genus and reassign two species (*Anelloviridae*) [https://ictv.global/ictv/proposals/2021.003D.R.Anelloviridae\\_1abgen\\_2spmv.zip](https://ictv.global/ictv/proposals/2021.003D.R.Anelloviridae_1abgen_2spmv.zip)
105. van Oers MM, Abd-Ala AMM, Bateman KS, Harrison RL, Herniou EA, Hu Z, Jehle JA, Krell PJ, Ribeiro BM (2021) Create four new species in the genus *Alphabaculovirus* and two new species in the genus *Betabaculovirus* (*Lefavirales: Baculoviridae*) [https://ictv.global/ictv/proposals/2021.004D.R.Baculoviridae\\_6nsp.zip](https://ictv.global/ictv/proposals/2021.004D.R.Baculoviridae_6nsp.zip)
106. Bateman KS, Van Oers MM, van Aerle R, Bojko J, Christiaens O, Taning CNT, Smagghe G, Stentiford GD (2021) Create two new species in the genus *Gammanudivivirus* (*Lefavirales: Nudiviridae*) [https://ictv.global/ictv/proposals/2021.005D.R.Nudiviridae\\_2nsp.zip](https://ictv.global/ictv/proposals/2021.005D.R.Nudiviridae_2nsp.zip)
107. Kuhn JH, Postler TS, Dolja VV, Krupovic M, Adriaenssens EM, Di Serio F, Dutilh BE, Flores R, Harrach B, Mushegian A, Owens B, Randles J, Rubino L, Sabanadzovic S, Simmonds P, Varsani A, Zerbini M, Koonin EV (2021) Rename the family *Polydnaviridae* (as *Polydnaviriformidae*), rename the genus *Bracovirus* (as *Bracoviriform*) and rename all polydnaviriformid species to comply with the newly ICTV-mandated binomial format [https://ictv.global/ictv/proposals/2021.006D.R.Polydnaviriformidae\\_1renfam\\_3rensp.zip](https://ictv.global/ictv/proposals/2021.006D.R.Polydnaviriformidae_1renfam_3rensp.zip)
108. Calvignac-Spencer S, Carr M, Daugherty M, Ehlers B, Feltkamp MCW, Lauber C, Lim E, Moens UL, Pietropaolo V, Prezioso C (2021) Create two new genera (*Etapolyomavirus* and *Thetapolyomavirus*) and rename all 117 species in the family (*Sepolyvirales: Polyomaviridae*) [https://ictv.global/ictv/proposals/2021.007D.R.Polyomaviridae\\_2ngen\\_117rensp.zip](https://ictv.global/ictv/proposals/2021.007D.R.Polyomaviridae_2ngen_117rensp.zip)
109. Turina M, Chiba S, Velasco L, Ayllón MA, Suzuki N, Lee-Marrano S, Sun L, Sabanadzovic S (2021) Create one new family (*Fusariviridae*) including three new genera (*Alphafusarivirus*, *Betafusarivirus* and *Gammafusarivirus*) and 34 new species (*Durnavirales*) [https://ictv.global/ictv/proposals/2021.001F.R.Fusariviridae\\_1newfam.zip](https://ictv.global/ictv/proposals/2021.001F.R.Fusariviridae_1newfam.zip)

110. Kotta-Loizou I, Castón JR, Chiba S, Coutts RHA, Jiang D, Kim D-H, Moriyama H (2021) Rename 31 species names in family to a Latinized binomial format (*Ghabvirales: Chrysoviridae*) [https://ictv.global/ictv/proposals/2021.002F.R.Chrysoviridae\\_binomials.zip](https://ictv.global/ictv/proposals/2021.002F.R.Chrysoviridae_binomials.zip)
111. Botella L, Manny AR, Nibert ML, Vainio E (2021) Create 100 new species and four new genera (*Cryptavirales: Mitoviridae*) [https://ictv.global/ictv/proposals/2021.003F.R.Mitoviridae\\_100nsp\\_4ngen.zip](https://ictv.global/ictv/proposals/2021.003F.R.Mitoviridae_100nsp_4ngen.zip)
112. Sato Y, Turina M, Chiba S, Okada R, Faraz Bhatti M, Kotta-Loizou I, Coutts RHA, Kondo H, Sabanadzovic S, Suzuki N (2021) Create one new family (*Hadakaviridae*) including one new genus (*Hadakavirus*) and one new species [https://ictv.global/ictv/proposals/2021.004F.R.Hadakaviridae\\_newfam.zip](https://ictv.global/ictv/proposals/2021.004F.R.Hadakaviridae_newfam.zip)
113. Sato Y, Das S, Velasco L, Turina M, Osaki H, Kotta-Loizou I, Coutts RHA, Kondo H, Sabanadzovic S, Suzuki N (2021) Create one new order (*Yadokarivirales*), one new family (*Yadokariviridae*), two new genera (*Alphayadokarivirus* and *Betayadokarivirus*) and 10 new species in the phylum *Pisuviricota* [https://ictv.global/ictv/proposals/2021.005F.R.Yadokarivirales\\_neworder.zip](https://ictv.global/ictv/proposals/2021.005F.R.Yadokarivirales_neworder.zip)
114. Turina M, Chiba S, Velasco L, Ayllón MA, Suzuki N, Lee-Marzano S, Sun L, Sabanadzovic S (2021) Create 35 new species and eight new genera, abolish one genus (*Hypovirus*) and rename four existing species (*Durnavirales: Hypoviridae*) [https://ictv.global/ictv/proposals/2021.006F.R.Hypoviridae\\_8newgen\\_35newsp.zip](https://ictv.global/ictv/proposals/2021.006F.R.Hypoviridae_8newgen_35newsp.zip)
115. Candresse T, Blouin A, Cao M, Cho WK, Constable F, Mollov D, Nagata T, Saldarelli P, Tzanetakis I, Villamor DE, Sabanadzovic S (2021) Create two new genera and three new species (*Tymovirales: Gammaflexiviridae*) [https://ictv.global/ictv/proposals/2021.007F.R.Gammaflexiviridae\\_2ngen\\_3nsp.zip](https://ictv.global/ictv/proposals/2021.007F.R.Gammaflexiviridae_2ngen_3nsp.zip)
116. Boratto P, Oliveira G, Abrahão JS (2021) Create one family *Yaraviridae* including one new genus (*Yaravirus*) and one new species (*Yaravirus brasiliense*) in the realm *Varidnaviria* [https://ictv.global/ictv/proposals/2021.008F.R.Yaraviridae\\_newfam.zip](https://ictv.global/ictv/proposals/2021.008F.R.Yaraviridae_newfam.zip)
117. Ayllón MA, Xie J, Donaire L, Turina M, Nerva L, Jiang D, Marzano S-Y, Sabanadzovic S (2021) Create six new genera, create 109 new species and rename three existing species (*Ourlivirales: Botourmiaviridae*) [https://ictv.global/ictv/proposals/2021.009F.R.Botourmiaviridae\\_6newgen\\_109newsp.zip](https://ictv.global/ictv/proposals/2021.009F.R.Botourmiaviridae_6newgen_109newsp.zip)
118. Varsani A, Krupovic M (2021) Create two new orders, three new families and 21 new genera in the class *Arfiviricetes* (phylum *Cressdnnaviricota*) [https://ictv.global/ictv/proposals/2021.010F.R.Cressdna\\_2neword\\_3newfam\\_21newgen.zip](https://ictv.global/ictv/proposals/2021.010F.R.Cressdna_2neword_3newfam_21newgen.zip)
119. Attoui H, Mohd Jaafar F, Mertens PPC (2021) Abolish the family *Reoviridae* and promote subfamilies *Sedoreovirinae* and *Spinareovirinae* to the rank of family (*Sedoreoviridae* and *Spinareoviridae*, respectively) (*Reovirales*) [https://ictv.global/ictv/proposals/2020.028M.R.Reovirales\\_2nfam.zip](https://ictv.global/ictv/proposals/2020.028M.R.Reovirales_2nfam.zip)
120. Bejerman N, Dietzgen RG, Kondo H, Ramos-González P, Whitfield AE, Walker PJ, Freitas-Astúa J (2021) Create one new species in the genus *Alphanucleorhabdovirus*, one new species in the genus *Betanucleorhabdovirus*, and five new species in the genus *Cytorhabdovirus*, subfamily *Betarhabdovirinae* (*Mononegavirales: Rhabdoviridae*) [https://ictv.global/ictv/proposals/2021.001M.R.Betarhabdovirinae\\_7nsp.zip](https://ictv.global/ictv/proposals/2021.001M.R.Betarhabdovirinae_7nsp.zip)
121. Pallandre L, Luo D, Feuvrier C, Lieffrig F, Pozet F, Dacheux L, Bigarré L, Kurath G, Walker PJ (2021) Create one new species in the genus *Perhabdovirus*, and three new genera including six new species, for viruses of fish and marine mammals (*Mononegavirales: Rhabdoviridae*) [https://ictv.global/ictv/proposals/2021.003M.R.Alpharhabdovirinae\\_3ngen\\_7nsp.zip](https://ictv.global/ictv/proposals/2021.003M.R.Alpharhabdovirinae_3ngen_7nsp.zip)
122. Luo DS, Dacheux L (2021) Create eight new species in the genus *Sunrhavirus*, create two new species in the genus *Hapavirus*, create two new species in the genus *Vesiculovirus* and create one species in the genus *Ledantivirus* (*Mononegavirales: Rhabdoviridae*) [https://ictv.global/ictv/proposals/2021.004M.R.Alpharhabdovirinae\\_13nsp.zip](https://ictv.global/ictv/proposals/2021.004M.R.Alpharhabdovirinae_13nsp.zip)
123. Horie M (2021) Create one new genus (*Tapiovirus*) including one new species (*Mononegavirales: Filoviridae*) [https://ictv.global/ictv/proposals/2021.005M.R.Filoviridae\\_1ingen\\_1nsp.zip](https://ictv.global/ictv/proposals/2021.005M.R.Filoviridae_1ingen_1nsp.zip)
124. Těšíková J, Krásová J, Goüy de Bellocq J (2021) Create one new species (*Mammarenavirus bituense*) in the genus *Mammarenavirus* (*Bunyavirales: Arenaviridae*) [https://ictv.global/ictv/proposals/2021.006M.R.Mammarenavirus\\_1nsp\\_Bitu.zip](https://ictv.global/ictv/proposals/2021.006M.R.Mammarenavirus_1nsp_Bitu.zip)
125. Těšíková J, Krásová J, Goüy de Bellocq J (2021) Create one new species (*Mammarenavirus kwanzaense*) in genus *Mammarenavirus* (*Bunyavirales: Arenaviridae*) [https://ictv.global/ictv/proposals/2021.007M.R.Mammarenavirus\\_1nsp\\_Kwanza.zip](https://ictv.global/ictv/proposals/2021.007M.R.Mammarenavirus_1nsp_Kwanza.zip)
126. Postler TS, Kuhn JH, Økland AL, Vasilakis N, Ye GY, Dietzgen RG (2021) Rename all species in the family to comply with the ICTV-mandated binomial format (*Mononegavirales: Artoviridae*) [https://ictv.global/ictv/proposals/2021.009M.R.Artoviridae\\_sprename.zip](https://ictv.global/ictv/proposals/2021.009M.R.Artoviridae_sprename.zip)
127. Postler TS, Briese T, Dürrwald R, Horie M, Hyndman T, Nowotny N, Pfaff F, Rubbenstroth D, Tomonaga K, Kuhn JH (2021) Rename all species in the family to comply with the ICTV-mandated binomial format (*Mononegavirales: Bornaviridae*) [https://ictv.global/ictv/proposals/2021.010M.R.Bornaviridae\\_sprename.zip](https://ictv.global/ictv/proposals/2021.010M.R.Bornaviridae_sprename.zip)
128. Hierweger MM, Koch MC, Rupp M, Maes P, Di Paola N, Brugmann R, Schmidt-Posthaus H, Kuhn JH, Seuberlich T (2021) Create one new genus and three new species (*Mononegavirales: Filoviridae*) [https://ictv.global/ictv/proposals/2021.011M.R.Filoviridae\\_1ingen\\_3nsp.zip](https://ictv.global/ictv/proposals/2021.011M.R.Filoviridae_1ingen_3nsp.zip)
129. Vanmechelen B, Kuhn JH, Maes P (2021) Create eight new species in genus *Jeilongvirus* (*Mononegavirales: Paramyxoviridae*) [https://ictv.global/ictv/proposals/2021.014M.R.Jeilongvirus\\_2nsp.zip](https://ictv.global/ictv/proposals/2021.014M.R.Jeilongvirus_2nsp.zip)
130. Kuhn JH, Junglen S, Ye G, Postler TS, Paraskevopoulou S (2021) Create 16 new genera, create 13 new species and rename all six established species (*Mononegavirales: Lispiviridae*) [https://ictv.global/ictv/proposals/2021.016M.R.Lispiviridae\\_16ngen\\_13nsp.zip](https://ictv.global/ictv/proposals/2021.016M.R.Lispiviridae_16ngen_13nsp.zip)
131. Postler TS, Rubino L, Sabanadzovic S, Kuhn JH (2021) Rename all species in the families *Amnoonviridae*, *Leishbuviridae*, *Mypoviridae*, *Qinviridae*, *Wupedeviridae* and *Yueviridae* to comply with the ICTV-mandated binomial format (*Negarnaviricot*) [https://ictv.global/ictv/proposals/2021.018M.R.Negarnaviricot\\_sprename.zip](https://ictv.global/ictv/proposals/2021.018M.R.Negarnaviricot_sprename.zip)
132. Dietzgen RG, Kuhn JH, Vasilakis N, Firth AE, Paraskevopoulou N (2021) Create two new species in genus *Nyavirus* and one new species in genus *Formivirus* (*Mononegavirales: Nyamiviridae*) [https://ictv.global/ictv/proposals/2021.019M.R.Nyamiviridae\\_3nsp.zip](https://ictv.global/ictv/proposals/2021.019M.R.Nyamiviridae_3nsp.zip)
133. Postler TS, Firth AE, Kuhn JH, Paraskevopoulou S, Vasilakis N, Dietzgen RG (2021) Rename all species in the family to comply with the ICTV-mandated binomial format (*Mononegavirales: Nyamiviridae*) [https://ictv.global/ictv/proposals/2021.020M.R.Nyamiviridae\\_sprename.zip](https://ictv.global/ictv/proposals/2021.020M.R.Nyamiviridae_sprename.zip)
134. Pfaff F, Briese T, Dürrwald R, Horie M, Hyndman T, Kuhn JH, Nowotny N, Tomonaga K, Rubbenstroth D (2021) Create one new species in genus *Orthobornavirus* (*Mononegavirales: Bornaviridae*) [https://ictv.global/ictv/proposals/2021.021M.R.Orthobornavirus\\_1nsp.zip](https://ictv.global/ictv/proposals/2021.021M.R.Orthobornavirus_1nsp.zip)
135. García-Sastre A (2021) Create one new genus (*Mykissvirus*) including one new species (*Mykissvirus tructae*) (*Articulavirales: Orthomyxoviridae*) [https://ictv.global/ictv/proposals/2021.022M.R.Orthomyxoviridae\\_1ingen\\_1nsp\\_Mykiss.zip](https://ictv.global/ictv/proposals/2021.022M.R.Orthomyxoviridae_1ingen_1nsp_Mykiss.zip)
136. Mohr PG, Godwin SE, Morrison RN, Carson J, Crane MStJ, Moody NJG (2021) Create one new genus (*Sardinovirus*) including one new species (*Sardinovirus pilchardi*) (*Articulavirales:*

- Orthomyxoviridae*) [https://ictv.global/ictv/proposals/2021.023M.R.Orthomyxoviridae\\_1ngen\\_1nsp\\_Sardino.zip](https://ictv.global/ictv/proposals/2021.023M.R.Orthomyxoviridae_1ngen_1nsp_Sardino.zip)
137. Postler TS, Bahl J, Casas I, García-Sastre A, Hongo S, Marshall SH, McCauley JW, Parrish CR, Perez DR, Neumann G, Runstadler JA, Schwemmle M, Kuhn JH (2021) Rename all species in the family to comply with the ICTV-mandated binomial format (*Articulavirales: Orthomyxoviridae*) [https://ictv.global/ictv/proposals/2021.024M.R.Orthomyxoviridae\\_sprename.zip](https://ictv.global/ictv/proposals/2021.024M.R.Orthomyxoviridae_sprename.zip)
  138. Hughes HR, Alkhovskiy S, Beer M, Blair CD, Calisher CH, Drebot M, Lambert AJ, de Sousa WM, Markleowitz M (2021) Create three new genera (*Khurdivirus*, *Lakivirus* and *Lambavirus*) including three new species (*Bunyavirales: Peribunyaviridae*) [https://ictv.global/ictv/proposals/2021.027M.R.Peribunyaviridae\\_3ngen\\_3nsp.zip](https://ictv.global/ictv/proposals/2021.027M.R.Peribunyaviridae_3ngen_3nsp.zip)
  139. Dietzgen RG, Kuhn JH, Vasilakis N, Okland AL, Ye GY (2021) Create one new species in genus *Peropivirus* (*Mononegavirales: Artoviridae*) [https://ictv.global/ictv/proposals/2021.029M.R.Peropivirus\\_1nsp.zip](https://ictv.global/ictv/proposals/2021.029M.R.Peropivirus_1nsp.zip)
  140. Ballinger MJ, Pauvolid-Corrêa A, Junglen S (2021) Create four new species in the genus *Orthophasmavirus* and create one new genus (*Cicadellivirus*) including one new species (*Bunyavirales: Phasmaviridae*) [https://ictv.global/ictv/proposals/2021.030M.R.Phasmaviridae\\_1ngen\\_5nsp.zip](https://ictv.global/ictv/proposals/2021.030M.R.Phasmaviridae_1ngen_5nsp.zip)
  141. Adriaenssens EM, Ghosh S, Mahar J, Neri U, Wang D, Kuhn JH (2021) Rename all species in the family to comply with the ICTV-mandated binomial format (*Durnavirales: Picobirnaviridae*) [https://ictv.global/ictv/proposals/2021.032M.R.Picobirnaviridae\\_sprename\\_genrename.zip](https://ictv.global/ictv/proposals/2021.032M.R.Picobirnaviridae_sprename_genrename.zip)
  142. García-Sastre A (2021) Create four new species in the genus *Quaranjavirus* (*Articulavirales: Orthomyxoviridae*) [https://ictv.global/ictv/proposals/2021.034M.R.Quaranjavirus\\_4nsp.zip](https://ictv.global/ictv/proposals/2021.034M.R.Quaranjavirus_4nsp.zip)
  143. Kuzmin IV, Blasdell KR, Dietzgen RG, Fooks AR, Freitas-Astúa J, Kondo H, Kurath G, Tesh RB, Vasilakis N, Whitfield AE, Walker PJ (2021) Create two new genera (*Amplylivirus*, *Replivivirus*) including two new species (*Mononegavirales: Rhabdoviridae*) [https://ictv.global/ictv/proposals/2021.035M.R.Rhabdoviridae\\_2ngen\\_2nsp.zip](https://ictv.global/ictv/proposals/2021.035M.R.Rhabdoviridae_2ngen_2nsp.zip)
  144. Walker PJ, Freitas-Astúa J, Bejerman N, Blasdell KR, Dietzgen RG, Fooks A, Kondo H, Kurath G, Kuzmin IV, Ramos-González PL, Shi M, Tesh RB, Tordo N, Vasilakis N, Whitfield AE (2021) Rename all 249 existing rhabdovirus species (*Mononegavirales: Rhabdoviridae*) [https://ictv.global/ictv/proposals/2021.036M.R.Rhabdoviridae\\_sprename.zip](https://ictv.global/ictv/proposals/2021.036M.R.Rhabdoviridae_sprename.zip)
  145. Postler TS, Kurath G, Kuhn JH, Hyndman, TH (2021) Rename all species in the family to comply with the ICTV-mandated binomial format (*Mononegavirales: Sunviridae*) [https://ictv.global/ictv/proposals/2021.037M.R.Sunviridae\\_sprename.zip](https://ictv.global/ictv/proposals/2021.037M.R.Sunviridae_sprename.zip)
  146. García-Sastre A (2021) Create six new species in the genus *Thogotovirus* (*Articulavirales: Orthomyxoviridae*) [https://ictv.global/ictv/proposals/2021.038M.R.Thogotovirus\\_6nsp.zip](https://ictv.global/ictv/proposals/2021.038M.R.Thogotovirus_6nsp.zip)
  147. Kuhn JH, Junglen S, Postler TS, Paraskevopoulou S (2021) Create ten new genera, create eight new species, abolish one species, and rename all six remaining species (*Mononegavirales: Xinmoviridae*) [https://ictv.global/ictv/proposals/2021.039M.R.Xinmoviridae\\_11ngen\\_8nsp.zip](https://ictv.global/ictv/proposals/2021.039M.R.Xinmoviridae_11ngen_8nsp.zip)
  148. Turina M, Sabanadzovic S, Kuhn JH (2021) Create two new families (*Discoviridae*, *Tulasviridae*), each including one new genus (*Bunyavirales*) [https://ictv.global/ictv/proposals/2021.040M.R.Bunyavirales\\_2nfam\\_2ngen\\_6nsp.zip](https://ictv.global/ictv/proposals/2021.040M.R.Bunyavirales_2nfam_2ngen_6nsp.zip)
  149. Jiang D, Ayllón MA, Marzano S-Y, Kondo H, Turina M (2021) Create five new species in genera *Auricularimonavirus*, *Botrytimonavirus* and *Sclerotimonavirus* (*Mononegavirales: Mymonaviridae*) [https://ictv.global/ictv/proposals/2021.041M.R.Mymonaviridae\\_5nsp.zip](https://ictv.global/ictv/proposals/2021.041M.R.Mymonaviridae_5nsp.zip)
  150. Kuhn JH, Krupovic M, Walker PJ (2021) Correction of mistakes inadvertently introduced into taxonomy (*Riboviria*; *Dupludnaviria*) [https://ictv.global/ictv/proposals/2021.042M.R.Corrections\\_Riboviria\\_Dupludnaviria.zip](https://ictv.global/ictv/proposals/2021.042M.R.Corrections_Riboviria_Dupludnaviria.zip)
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  152. Fuchs M, Hily J-M, Petrik K, Sanfaçon H, Thompson J, van der Vlugt R, Wetzel T (2021) Create one new genus (*Stralarivirus*) and 20 new species in the family *Secoviridae* (*Picornavirales*) [https://ictv.global/ictv/proposals/2021.002P.R.Secoviridae\\_1ng\\_20ns.zip](https://ictv.global/ictv/proposals/2021.002P.R.Secoviridae_1ng_20ns.zip)
  153. Umber M, Teycheney P-Y (2021) Create two new species and abolish one species (*Schefflera ringspot virus*) in the genus *Badnavirus* (*Ortervirales: Caulimoviridae*) [https://ictv.global/ictv/proposals/2021.003P.R.Badnavirus\\_2ns\\_1as.zip](https://ictv.global/ictv/proposals/2021.003P.R.Badnavirus_2ns_1as.zip)
  154. Elbeaino T, Demian E, Kontra L, Jaksa-Czotter N, Slimen AB, Fabian R, Lazar J, Tamisier L, Digiaro M, Massart S, Varallyay E (2021) Create one new species (*Anulavirus GLPV*) in the genus *Anulavirus* (*Martellivirales: Bromoviridae*) [https://ictv.global/ictv/proposals/2021.004P.R.Anulavirus\\_1ns.zip](https://ictv.global/ictv/proposals/2021.004P.R.Anulavirus_1ns.zip)
  155. Safarova D, Candresse T, Navratil M (2021) Create one new species (*Bromovirus SVS*) in the genus *Bromovirus* (*Martellivirales: Bromoviridae*) [https://ictv.global/ictv/proposals/2021.005P.R.Bromovirus\\_1ns.zip](https://ictv.global/ictv/proposals/2021.005P.R.Bromovirus_1ns.zip)
  156. Inoue-Nagata AK, Wylie SJ, Jordan R, Kreuze JF, Li F, Lopez-Moya JJ, Makinen K, Ohshima K (2021) Create five new species in the genus *Potyvirus* (*Patatavirales: Potyviridae*) [https://ictv.global/ictv/proposals/2021.006P.R.Potyvirus\\_5ns\\_3as.zip](https://ictv.global/ictv/proposals/2021.006P.R.Potyvirus_5ns_3as.zip)
  157. Candresse T, Cao M, Constable F, Blouin A, Cho WK, Nagata T, Sabanadzovic S, Saldarelli P, Tzanetakis I, Villamor DE, Mollov D (2021) Create two new genera and 23 new species (*Tymovirales: Betaflexiviridae*) [https://ictv.global/ictv/proposals/2021.007P.R.Betaflexiviridae\\_2ng\\_23nsp.zip](https://ictv.global/ictv/proposals/2021.007P.R.Betaflexiviridae_2ng_23nsp.zip)
  158. Melzer MJ, Freitas-Astúa J, Li JM, Peters J, Ramos-González PL, Rodrigues JVC, Roy A (2021) Create one new species in the genus *Cilevirus* (*Martellivirales: Kitaviridae*) [https://ictv.global/ictv/proposals/2021.008P.R.Cilevirus\\_1ns.zip](https://ictv.global/ictv/proposals/2021.008P.R.Cilevirus_1ns.zip)
  159. Desbiez C (2021) Create one new species in the genus *Sobemovirus* (*Sobelivirales: Solemoviridae*) [https://ictv.global/ictv/proposals/2021.009P.R.Sobemovirus\\_1ns.zip](https://ictv.global/ictv/proposals/2021.009P.R.Sobemovirus_1ns.zip)
  160. Rumbou A, Candresse T, von Bargen S, Büttner C (2021) Create one new species (*Emaravirus aceris*) in the genus *Emaravirus* (*Bunyavirales: Fimoviridae*) [https://ictv.global/ictv/proposals/2021.010P.R.Emaravirus\\_1ns.zip](https://ictv.global/ictv/proposals/2021.010P.R.Emaravirus_1ns.zip)
  161. Kubota K, Yanagisawa H, Chiaki Y, Yamasaki J, Horikawa H, Tsunekawa K, Morita Y, Kadono F (2021) Create one new species (*Emaravirus chrysanthemi*) in the genus *Emaravirus* (*Bunyavirales: Fimoviridae*) [https://ictv.global/ictv/proposals/2021.011P.R.Emaravirus\\_1ns.zip](https://ictv.global/ictv/proposals/2021.011P.R.Emaravirus_1ns.zip)
  162. Rehanek M, von Bargen S, Bandte M, Karlin DG, Büttner C (2021) Create one new species (*Emaravirus quercus*) in the genus *Emaravirus* (*Bunyavirales: Fimoviridae*) [https://ictv.global/ictv/proposals/2021.012P.R.Emaravirus\\_1ns.zip](https://ictv.global/ictv/proposals/2021.012P.R.Emaravirus_1ns.zip)
  163. Digiaro M, Elbeaino T, Kuhn JH, Postler TS (2021) Rename all existing species to comply with the newly ICTV-mandated binomial species format (*Bunyavirales: Fimoviridae*) [https://ictv.global/ictv/proposals/2021.013P.R.Fimoviridae\\_rename.zip](https://ictv.global/ictv/proposals/2021.013P.R.Fimoviridae_rename.zip)
  164. Postler TS, Kuhn JH, Vaira AM, Dal Bó E, Gago-Zachert S, García ML, Hammond J, Natsuaki T, Navarro JA, Neriya Y, Pallás V, Reyes CA, Sasaya T, Tzanetakis I, Verbeek M (2021) Rename all species to comply with newly ICTV-mandated binomial species format (*Serpentovirales: Aspiviridae*) [https://ictv.global/ictv/proposals/2021.014P.R.Aspiviridae\\_rename.zip](https://ictv.global/ictv/proposals/2021.014P.R.Aspiviridae_rename.zip)
  165. Di Serio F, Li S-F, Matousek, J, Pallas V, Randles JW, Sano T, Verhoeven JThJ, Vidalakis G, Owens RA (2021) Modify the species demarcation criteria (*Pospiviroidea* and *Avsunviroidea*) [https://ictv.global/ictv/proposals/2021.015P.R.Viroid\\_demarcation\\_criteria.pdf](https://ictv.global/ictv/proposals/2021.015P.R.Viroid_demarcation_criteria.pdf)

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169. Aboughanem-Sabanadzovic N, Kuhn JH, Rubino L, Sabanadzovic S (2021) Rename species in the family *Mayoviridae* to comply with ICTV-mandated binomial format (*Martellivirales: Mayoviridae*) [https://ictv.global/ictv/proposals/2021.020P.R.Mayoviridae\\_binomials.zip](https://ictv.global/ictv/proposals/2021.020P.R.Mayoviridae_binomials.zip)
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