



## 2021 Taxonomic update of phylum *Negarnaviricota* (*Riboviria*: *Orthornavirae*), including the large orders *Bunyavirales* and *Mononegavirales*

Jens H. Kuhn<sup>1</sup> · Scott Adkins<sup>2</sup> · Bernard R. Agwanda<sup>211,212</sup> · Rim Al Kubrusli<sup>3</sup> · Sergey V. Alkhovsky (Альховский Сергей Владимирович)<sup>4</sup> · Gaya K. Amarasinghe<sup>5</sup> · Tatjana Avšič-Županc<sup>6</sup> · María A. Ayllón<sup>7,197</sup> · Justin Bahl<sup>8</sup> · Anne Balkema-Buschmann<sup>9</sup> · Matthew J. Ballinger<sup>10</sup> · Christopher F. Basler<sup>11</sup> · Sina Bavari<sup>12</sup> · Martin Beer<sup>13</sup> · Nicolas Bejerman<sup>14</sup> · Andrew J. Bennett<sup>15</sup> · Dennis A. Bente<sup>16</sup> · Éric Bergeron<sup>17</sup> · Brian H. Bird<sup>18</sup> · Carol D. Blair<sup>19</sup> · Kim R. Blasdel<sup>20</sup> · Dag-Ragnar Blystad<sup>21</sup> · Jamie Bojko<sup>22,198</sup> · Wayne B. Borth<sup>23</sup> · Steven Bradfute<sup>24</sup> · Rachel Breyta<sup>25,199</sup> · Thomas Briese<sup>26</sup> · Paul A. Brown<sup>27</sup> · Judith K. Brown<sup>28</sup> · Ursula J. Buchholz<sup>29</sup> · Michael J. 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## Abstract

In March 2021, following the annual International Committee on Taxonomy of Viruses (ICTV) ratification vote on newly proposed taxa, the phylum *Negarnaviricota* was amended and emended. The phylum was expanded by four families (*Aliusviridae*, *Crepuscuviridae*, *Myriaviridae*, and *Natareviridae*), three subfamilies (*Alpharhabdovirinae*, *Betarhabdovirinae*, and *Gammarhabdovirinae*), 42 genera, and 200 species. Thirty-nine species were renamed and/or moved and seven species were abolished. This article presents the updated taxonomy of *Negarnaviricota* as now accepted by the ICTV.

## Introduction

Phylum *Negarnaviricota* was established in 2019 by the International Committee on Taxonomy of Viruses (ICTV) for negative-sense RNA viruses that can be connected evolutionarily through the possession of virally encoded RNA-directed RNA polymerases (RdRps). The phylum includes two subphyla, *Haploviricotina* and *Polyploviricotina*, for negative-sense RNA viruses that encode RdRps with or without mRNA capping activity, respectively. The two subphyla include four classes (*Chunquiviricetes*, *Milnevircetes*, *Monjivircetes*, and *Yunchangviricetes*) and two classes (*Ellioviricetes* and *Insthoviricetes*), respectively [56, 93, 109]. The phylum was last amended/emended in 2020 [57]. Here, we present the changes that were proposed to the phylum via official taxonomic proposals (TaxoProps) in 2020 and accepted by the ICTV in March 2021 ([https://talk.ictvonline.org/files/ictv\\_official\\_taxonomy\\_updates\\_since\\_the\\_8th\\_report/](https://talk.ictvonline.org/files/ictv_official_taxonomy_updates_since_the_8th_report/)). These changes are now part of the official ICTV taxonomy.

[ictvonline.org/files/ictv\\_official\\_taxonomy\\_updates\\_since\\_the\\_8th\\_report/](https://talk.ictvonline.org/files/ictv_official_taxonomy_updates_since_the_8th_report/)). These changes are now part of the official ICTV taxonomy.

## Taxonomic changes above the phylum rank

The type species concept was abolished throughout virus taxonomy (TaxoProp 2020.001G.A.v1.Abolish\_type\_species).

## Taxonomic changes within order *Jingchuvirales* (*Haploviricotina*: *Monjivircetes*)

The order *Jingchuvirales* was thoroughly revised (TaxoProps 2020.026M.A.v1.Jingchuvirales and 2020.030M.R.Negarnaviricota\_corrections). Four new families were created:

- *Aliusviridae*: genus *Obscuruvirus*, including a single species, *Obscuruvirus quintum*, was created for Atrato chu-like virus 5 (ACIV-5), discovered in culicid mosquitoes (*Psorophora albipes* (Theobald, 1907)) sampled in Colombia [unpublished, GenBank #MN661033]. Genus *Ollusvirus* was created for species *Beetle mivirus*, *Shayang mivirus*, and *Taiyuan mivirus*, which were moved from *Chuviridae*: *Mivirus* and renamed *Ollusvirus coleopteri*, *Ollusvirus shayangense*, and *Ollusvirus taiyuanense*, respectively. Five new species were included in the genus:

- o *Ollusvirus culvertonense* for Culverton virus (CvV), discovered by high-throughput sequencing (HTS) in a Hercules' flea (*Macropsylla hercules* Rothschild, 1905) sampled in Timbillica State Forest, New South Wales, Australia [41];
  - o *Ollusvirus hanchengense* for Hanchéng leafhopper mivirus (HLMV), discovered by HTS in a leafhopper (*Psammotettix alienus* (Dahlbom 1850)) sampled in Hanchéng (韩城市), Shaanxi/Shānxī Province (陕西省), China [39];
  - o *Ollusvirus hymenopteri* for hymenopteran chu-related virus 123 (HCrv-123) discovered by HTS in a cleptoparasitic bee (*Dioxys cincta* (Jurine, 1807)) sampled in Lacs des Millefonds, Alpes-Maritimes, France [49];
  - o *Ollusvirus insectii* for hymenopteran chu-related virus 126 (HCrv-126), discovered by HTS in a crabronid wasp (*Oxybelus bipunctatus* Olivier, 1812) sampled in Battenberg, Rhineland-Palatinate (Rheinland-Pfalz), Germany [49]; and
  - o *Ollusvirus scaldisense* for Scaldis River bee virus (SRBV), discovered by HTS in a European orchard bee (*Osmia cornuta* (Latreille, 1805)) sampled in Ghent, Flemish Region (Vlaams Gewest), Belgium [88];
- *Crepuscuviridae*: a single genus, *Aqualarivirus*, including a single species, *Aqualarivirus sialis*, was created for megalopteran chu-related virus 119 (MCrv-119), discovered by HTS in a corydalid fly sampled in Bejuma, Carabobo State (Estado Carabobo), Venezuela [49];
  - *Myriaviridae*: a single genus, *Myriavirus*, was created for species *Myriapod mivirus*, which was moved from *Chuviridae: Mivirus* and renamed *Myriavirus myriapedis*; and
  - *Natareviridae*: a single genus, *Charybdivirus*, was created for species *Charybdis mivirus*, which was moved from *Chuviridae: Mivirus* and renamed *Charybdivirus charybdis*.
- In family *Chuviridae*, 13 new genera were created:
- Genus *Boscovirus* was created for species *Hippoboscid mivirus* and *Louse fly mivirus*, which were moved from *Chuviridae: Mivirus* and renamed *Boscovirus hippoboscidae* and *Boscovirus hypoboscidae*, respectively;
  - Genus *Chuvivirus* was created for species *Brunnich mivirus* and *Crab mivirus*, which were moved from *Chuviridae: Mivirus* and renamed *Chuvivirus brunnich* and *Chuvivirus canceris*, respectively;
  - Genus *Culicidavirus* was created for species *Imjin mivirus* and *Mosquito mivirus*, which were moved from *Chuviridae: Mivirus* and renamed *Culicidavirus imjinense* and *Culicidavirus culicidae*, respectively. Two new species were created:
    - o *Culicidavirus culicis* for *Culex* mosquito virus 5 (CIMV-5), discovered by HTS in a *Culex* mosquito sampled in the USA [86]; and
    - o *Culicidavirus quitotaense* for *Culex* mosquito virus 4 (CIMV-4), discovered by HTS in a culicid mosquito (*Culex* sp.) sampled in the USA [86];
  - Genus *Doliivirus* was created for a single new species, *Doliivirus culisetae*, for Mos8Chu0 chuvirus (MoCV), discovered by HTS in culicid mosquitoes (*Culiseta minnesotae* Barr, 1957) sampled in the USA [unpublished; GenBank #KX924630];
  - Genus *Demapteravirus* was created for a single new species, *Demapteravirus demapteri*, for demapteran chu-related virus 142 (DCrv-142), discovered by HTS in earwigs (*Gonolabis marginalis* (Dohrn, 1864)) sampled in Tsukuba (つくば市), Ibaraki Prefecture (茨城県), Japan [49];
  - Genus *Morsusvirus* was created for species *Argas mivirus*, which was moved from *Chuviridae: Mivirus* and renamed *Morsusvirus argatis*;
  - Genus *Nigecruvirus* was created for a single new species, *Nigecruvirus ixodes*, for blacklegged tick chuvirus-2 (BITC-2), discovered by HTS in a deer tick (*Ixodes scapularis* Say, 1821) sampled in the USA [100];
  - Genus *Odonatavirus* was created for species *Odonate mivirus*, which was moved from *Chuviridae: Mivirus* and renamed *Odonatavirus fabricii*. Two new species were created:
    - o *Odonatavirus draconis* for odonatan chu-related virus 137 (OCrv-137), discovered by HTS in a common flatwing (*Austroargiolestes icteromelas* (Selys, 1862)) sampled in Uriarra State Forest, Australian Capital Territory, Australia [49]; and
    - o *Odonatavirus odontis* for odonatan chu-related virus 136 (OCrv-136), discovered by HTS in a whitewater rockmaster (*Diphlebia lestoides* (Selys, 1853)) sampled in Gibraltar Creek, Australian Capital Territory, Australia, [49];
  - Genus *Pediavirus* was created for species *Barnacle mivirus*, which was moved from *Chuviridae: Mivirus* and renamed *Pediavirus cirripedis*;
  - Genus *Piscichuvirus* was created for species *Sanxia mivirus*, which was moved from *Chuviridae: Mivirus* and renamed *Piscichuvirus sanxiaense*. Three new species were created:

- o *Piscichuvirus franki* for Herr Frank virus 1 (HFrV-1), discovered by HTS in a Brazilian boa constrictor (*Boa constrictor* Linnaeus, 1758) [3];
  - o *Piscichuvirus lycodontis* for Guāngdōng red-banded snake chuvirus-like virus (GRSCV), discovered by HTS in a colubrid snake (*Lycodon rufozonatus* (Cantor, 1842) sampled in China [92]; and
  - o *Piscichuvirus wenlingense* for Wēnlíng fish chu-like virus (WFCIV), discovered by HTS in a longspine snipefish (*Macroramphosus scolopax* (Linnaeus, 1758)) sampled in China [92];
- Genus *Pterovirus* was created for a single new species, *Pterovirus chulinense*, for hymenopteran chu-related virus OKIAV147 (HCrV-147), discovered by HTS in an aphelinid wasp (*Aphelinus abdominalis* (Dalman, 1820)) in a laboratory culture of wasps of unknown geographical origin [49];
  - Genus *Scarabeuvirus* was created for species *Cockroach mivirus*, *Hubei odonate mivirus*, *Hubei mivirus*, and *Lishi mivirus*, which were moved from *Chuviridae: Mivirus* and renamed *Scarabeuvirus blattae*, *Scarabeuvirus dentati*, *Scarabeuvirus hubeiense*, and *Scarabeuvirus lishiense*, respectively. A new species, *Scarabeuvirus lampyris*, was created for *Lampyris noctiluca* chuvirus-like virus 1 (LNCIV-1), discovered by HTS in a common glow-worm (*Lampyris noctiluca* (Linnaeus, 1767)) sampled in Finland [102]; and
  - Genus *Taceavirus* was created for species *Wenling mivirus*, which was moved from *Chuviridae: Mivirus* and renamed *Taceavirus wenlingense*.

In chuvirid genus *Mivirus*, three new species were created:

- *Mivirus genovaense* for Genoa virus (GeV), discovered by HTS in an Australian paralysis tick (*Ixodes holocyclus* Neumann, 1899) sampled in New South Wales, Australia [42];
- *Mivirus karukeraense* for Karukera tick virus (KtV), discovered by HTS in ixodid ticks sampled in Guadeloupe/Martinique, France [38]; and
- *Mivirus rhipicephali* for brown dog tick mivirus 1 (BDTMV-1), discovered by HTS in brown dog ticks (*Rhipicephalus sanguineus* (Latreille, 1806)) sampled in Trinidad and Tobago [87].

Six mivirus species were renamed:

- *Lonestar mivirus* → *Mivirus amblyommae*;
- *Bole mivirus* → *Mivirus boleense*;
- *Changping mivirus* → *Mivirus changpingense*;
- *Dermacentor mivirus* → *Mivirus dermacentoris*;

- *Suffolk mivirus* → *Mivirus suffolkense*; and
- *Wuhan mivirus* → *Mivirus wuhanense*.

Four mivirus species were deleted:

- *Crustacean mivirus*;
- *Hermit mivirus*;
- *Lacewing mivirus*; and
- *Xinzhou mivirus*.

## Taxonomic changes within order *Mononegavirales* (*Haploviricotina: Monjiviricetes*)

### Family *Mymonaviridae*

Family *Mymonaviridae* was thoroughly revised. Seven new genera were established:

- Genus *Auricularimonavirus* was established for one new species, *Auricularimonavirus auriculariae*, for *Auricularia heimuer* negative-stranded RNA virus 1 (AhNRSV-1), discovered in a jelly fungus (*Auricularia heimuer* F. Wu, B. K. Cui & Y. C. Dai 2014) sampled in China [unpublished; GenBank #MT259204];
- Genus *Botrytimonavirus* was established for one new species, *Botrytimonavirus botrytidis*, for *Botrytis cinerea* negative-stranded RNA virus 7 (BcNSRV-7), discovered in gray mold (*Botrytis cinerea* Pers. (1794)) sampled in Italy and Spain [84]. Species *Dadou sclerotimonavirus* and *Drop sclerotimonavirus* were moved from *Mymonaviridae: Sclerotimonavirus* and renamed *Botrytimonavirus glycinis* and *Botrytimonavirus sclerotiniae*, respectively. *Sclerotinia sclerotiorum* negative-stranded RNA virus 2-A (SsNSRV-2-A) and *Sclerotinia sclerotiorum* negative-stranded RNA virus 4-A (SsNSRV-4-A), both discovered by HTS in cottony rot fungi (*Sclerotinia sclerotiorum* (Lib.) de Bary (1884)) sampled in Australia [72], were moved into species *Botrytimonavirus sclerotiniae*;
- Genus *Lentimonavirus* was established for *Lentinula hubramonavirus*, which was moved from *Mymonaviridae: Hubramonavirus* and renamed *Lentimonavirus lentinulae*;
- Genus *Penicillimonavirus* was established for ten novel species:
  - o *Penicillimonavirus alphapenicillii* for *Penicillium adametzoides* negative-stranded RNA virus 1 (PaNSRV-1), discovered by HTS in a fungus (*Penicillium*

- adametzoides* S. Abe ex G. Smith 1963) sampled in Spresiano, Veneto Region, Italy [73];
- o *Penicillimonavirus alphaplasmaparae* for *Plasmopara viticola* lesion associated mononegambivirus 1 (PvaMV-1), discovered by HTS in grapevines (*Vitis* sp.) infected by an oomycete (*Plasmopara viticola* (Berk. & M.A. Curtis) Berl. & De Toni, (1888)) sampled in Italy [17];
  - o *Penicillimonavirus betapenicillii* for *Penicillium glabrum* negative-stranded RNA virus 1 (PgRIV-1), discovered by HTS in a fungus (*Penicillium glabrum* (Wehmer) Westling, (1911)) sampled in Spresiano, Veneto Region, Italy [73];
  - o *Penicillimonavirus betaplasmaparae* for *Plasmopara viticola* lesion associated mononegambivirus 2 (PvaMV-2) and *Plasmopara viticola* lesion associated mononegambivirus 4 (PvaMV-4), both discovered by HTS in grapevines (*Vitis* sp.) infected by an oomycete (*Plasmopara viticola* (Berk. & M.A. Curtis) Berl. & De Toni, (1888)) sampled in Italy (PvaMV-2 and PvaMV-4) and Spain (PvaMV-2) [17];
  - o *Penicillimonavirus deltaplasmaparae* for *Plasmopara viticola* lesion associated mononegambivirus 5 (PvaMV-5), discovered by HTS in grapevines (*Vitis* sp.) infected by an oomycete (*Plasmopara viticola* (Berk. & M.A. Curtis) Berl. & De Toni, (1888)) sampled in Italy [17];
  - o *Penicillimonavirus epsilonplasmoparae* for *Plasmopara viticola* lesion associated mononegambivirus 6 (PvaMV-6), discovered by HTS in grapevines (*Vitis* sp.) infected by an oomycete (*Plasmopara viticola* (Berk. & M.A. Curtis) Berl. & De Toni, (1888)) sampled in Italy and Spain [17];
  - o *Penicillimonavirus etaplasmaparae* for *Plasmopara viticola* lesion associated mononegambivirus 9 (PvaMV-9), discovered by HTS in grapevines (*Vitis* sp.) infected by an oomycete (*Plasmopara viticola* (Berk. & M.A. Curtis) Berl. & De Toni, (1888)) sampled in Italy [17];
  - o *Penicillimonavirus gammaplasmaparae* for *Plasmopara viticola* lesion associated mononegambivirus 3 (PvaMV-3), discovered by HTS in grapevines (*Vitis* sp.) infected by an oomycete (*Plasmopara viticola* (Berk. & M.A. Curtis) Berl. & De Toni, (1888)) sampled in Italy [17];
  - o *Penicillimonavirus kilnbarnense* for Kiln Barn virus (KBV), discovered by HTS in a spotted wing drosophila (*Drosophila suzukii* (Matsumura, 1931)) sampled in the UK [70]; and
  - o *Penicillimonavirus zetaplasmaparae* for *Plasmopara viticola* lesion associated mononegambivirus 7 (PvaMV-7), discovered by HTS in grapevines (*Vitis* sp.) infected by an oomycete (*Plasmopara viticola* (Berk. & M.A. Curtis) Berl. & De Toni, (1888)) sampled in Italy [17];
- Genus *Phyllomonavirus* was established for one new species, *Phyllomonavirus gysingense*, for Gysing virus (GYSV), discovered by HTS in culicid mosquitoes (*Culex* sp.) or associated fungi sampled in Sweden [80]. Species *Phyllosphere sclerotimonavirus* was moved from *Myomonaviridae: Sclerotimonavirus* and renamed *Phyllomonavirus phyllosphaerae*;
  - Genus *Plasmopamonavirus* was established for one new species, *Plasmopamonavirus plasmoparae*, for *Plasmopara viticola* lesion associated mononegambivirus 8 (PvaMV-8), discovered by HTS in grapevines (*Vitis* sp.) infected by an oomycete (*Plasmopara viticola* (Berk. & M.A. Curtis) Berl. & De Toni, (1888)) sampled in Spain [17]; and
  - Genus *Rhizomonavirus* was established for one new species, *Rhizomonavirus mali*, for apple virus B (APPV-B), discovered by HTS in apple trees (*Malus domestica* Borkh., 1803) sampled in Washington, USA [110].
- Genus *Hubramonavirus* was expanded by one new species, *Hubramonavirus terrae*, for H2BulkLitter1223 virus, discovered by HTS in grassland soil collected in Hopland, California, USA [98]. Species *Hubei hubramonavirus* was renamed as *Hubramonavirus hubeiense* (TaxoProp 2020.004F.A.v1.Mymona). Species *Hubei sclerotimonavirus* was deleted (TaxoProp 2020.006M.A.v1.Corrections).
- Genus *Sclerotimonavirus* was expanded by eight novel species (TaxoProp 2020.004F.A.v1.Mymona):
- *Sclerotimonavirus alphaclarireediae* for *Sclerotinia homoeocarpa* TSA contig 1 (ShTSA-1) and *Sclerotinia homoeocarpa* TSA contig 2 (ShTSA-2), both discovered by data mining of transcriptome shotgun assemblies (TSAs) of a fungus (*Sclerotinia homoeocarpa* (Bennett, 1937)) [54];
  - *Sclerotimonavirus alphaplasmaparae* for *Plasmopara viticola* lesion associated mymonavirus 1 (PvaMV-1), discovered by HTS in grapevines (*Vitis* sp.) infected by an oomycete (*Plasmopara viticola* (Berk. & M.A. Curtis) Berl. & De Toni, (1888)) sampled in Italy [17];
  - *Sclerotimonavirus alternariae* for *Alternaria tenuissima* negative-stranded RNA virus 1 (AtNsRV-1), discovered by HTS in a fungus (*Alternaria tenuissima* Samuel Paul Wiltshire (1933)) sampled in Spresiano, Veneto Region, Italy [73];
  - *Sclerotimonavirus betaclarireediae* for *Sclerotinia homoeocarpa* TSA contig 3 (ShTSA-3), discovered by data mining of transcriptome shotgun assemblies (TSAs)

of a fungus (*Sclerotinia homoeocarpa* (Bennett, 1937)) [54];

- *Sclerotimonavirus betaplasmoparae* for Plasmopara viticola lesion associated mononeg virus 2 (PvaMV-2), discovered by HTS in grapevines (*Vitis* sp.) infected by an oomycete (*Plasmopara viticola* (Berk. & M.A. Curtis) Berl. & De Toni, (1888)) sampled in Italy and Spain [17];
- *Sclerotimonavirus botrytidis* for Botrytis cinerea mymonavirus 1 (BcMyV-1), discovered by HTS in a gray mold (*Botrytis cinerea* Pers. (1794)) [40] and Sclerotinia sclerotiorum negative-stranded RNA virus 7 (SsNSRV-7), discovered by HTS in cottony rot fungi (*Sclerotinia sclerotiorum* (Lib.) de Bary (1884)) [72] sampled in Australia;
- *Sclerotimonavirus penicillii* for Penicillium cairnsense negative-stranded RNA virus 1 (PcNsRV-1), discovered by HTS in a fungus (*Penicillium cairnsense* Houbraken, J.; Frisvad, J.C.; Cole, T.; Samson, R.A. 2011) sampled in Spresiano, Veneto Region, Italy [73]; and
- *Sclerotimonavirus terrae* for H4BulkLitter234 virus, discovered by HTS in grassland soil collected in Hopland, California, USA [98].

Species *Glycine sclerotimonavirus*, *Illinois sclerotimonavirus*, and *Sclerotinia sclerotimonavirus* were renamed as *Sclerotimonavirus fusarii*, *Sclerotimonavirus illinoisense*, and *Sclerotimonavirus sclerotinae*, respectively. Sclerotinia sclerotiorum negative-stranded RNA virus 1-A (SsNSRV-1-A) and Sclerotinia sclerotiorum negative-stranded RNA virus 3-A (SsNSRV-3-A), both discovered by HTS in cottony rot (*Sclerotinia sclerotiorum* (Lib.) de Bary (1884)) sampled in Australia [72], were moved into the species *Sclerotimonavirus sclerotinae*.

## Family Nyamiviridae

One new genus, *Formivirus*, was established for four novel species (TaxoProp 2020.024M.A.v1. Nyamiviridae\_Ingen\_5nsp):

- *Chalybion formivirus* for hymenopteran orino-related virus OKIAV87 (HORV-87), discovered by HTS in a blue mud dauber (*Chalybion californicum* (Saussure, 1867)) sampled in Tennessee, USA [49];
- *Exsecta formivirus* for Formica exsecta virus 4 (FeV-4), discovered by HTS in a narrow-headed ant (*Formica exsecta* Nylander, 1846) sampled on Hanko Peninsula (Hankoniemi), southwestern Finland [23];
- *Fusca formivirus* for Formica fusca virus 1 (FfusV-1), discovered by HTS in a formicid ant (*Formica fusca* Linnaeus, 1758) collected in Cambridge, East of England, UK [52]; and

- *Gorytes formivirus* for hymenopteran orino-related virus OKIAV85 (HORV-85), discovered by HTS in a sand wasp (*Gorytes laticinctus* (Lepelletier, 1832)) collected in Albersweiler, Rhineland-Palatinate (Rheinland-Pfalz), Germany in 2011 [49].

Genus *Nyavirus* was expanded by one species, *Jacinto nyavirus*, for San Jacinto virus (SJCIV) isolated from a common starling (*Sturnus vulgaris* Linnaeus, 1758) sampled in Harris County, Texas [104] (TaxoProp 2020.024M.A.v1. Nyamiviridae\_Ingen\_5nsp).

## Family Paramyxoviridae

Genus *Metaavulavirus* was expanded by one species, *Avian metaavulavirus 22*, for avian paramyxovirus 22 (APMV-22) isolated from turtle doves (*Streptopelia tranquebarica* (Hermann, 1804)) sampled in Taiwan [64] (TaxoProp 2020.011M.A.v1. Metaavulavirus\_Insp).

Species *Avian orthovulavirus 21* [sic] was deleted (TaxoProp 2020.006M.A.v1. Corrections).

## Family Rhabdoviridae

Family *Rhabdoviridae* was split into three subfamilies:

- *Alpharhabdovirinae* for genera *Almendravivirus*, *Alphanemrhavirus*, *Arurhavirus*, *Barhavirus*, *Calighravirus*, *Curiovirus*, *Ephemerovirus*, *Hapavirus*, *Ledantevirus*, *Lostrhavirus*, *Lyssavirus*, *Mousrhavirus*, *Ohlsrhavirus*, *Perhabdovirus*, *Sawgrhavirus*, *Sigmavirus*, *Sprivivirus*, *Sripuvirus*, *Sunrhavirus*, *Tibrovirus*, *Tupavirus*, *Vesiculovirus*, and *Zarhavirus*;
- *Betarhabdovirinae* for genera *Alphanucleorhabdovirus*, *Betanucleorhabdovirus*, *Cytorhabdovirus*, *Dichorhavirus*, *Gammanucleorhabdovirus*, and *Varicosavirus*; and
- *Gammarhabdovirinae* for genus *Novirhabdovirus* (TaxoProp 2020.016M.A.v1. Rhabdoviridae\_3subfam).

Three new genera were included in subfamily *Alpharhabdovirinae*:

- Genus *Alphapaprhavirus*, including two novel species (TaxoProp 2020.014M.A.v1. Alphapaprhavirus\_1gen2sp):
  - *Hubei alphapaprhavirus* for Hubei lepidoptera virus 2 (HbLV-2), discovered by HTS in insects (Lepidoptera) sampled in Húběi Province (湖北省), China [91]; and
  - *Pararge alphapaprhavirus* for Pararge aegeria rhabdovirus (PAeRV), discovered by HTS in speckled wood (*Pararge aegeria* (Linnaeus, 1758)) in

- Belgium [65]. Lepidopteran rhabdo-related virus OKIAV-12 [49] is a junior synonym of PAeRV;
- Genus *Alpharicinrhavirus*, including three novel species (TaxoProp 2020.001M.A.v1.Alpharicinrhavirus):
    - *Blanchseco alpharicinrhavirus* for Blanchseco virus (BCOV), discovered by HTS in ixodid ticks (*Amblyomma ovale* Koch, 1844) sampled in Trinidad and Tobago [87];
    - *Bole alpharicinrhavirus* for Bole tick virus 2 (BITV-2), discovered by HTS in ixodid ticks (*Hyalomma asiaticum* Schulze et Schlottke, 1929) sampled in Bólè (博乐市), Xīnjiāng Uygur Autonomous Region (新疆维吾尔自治区), China [61];
    - *Wuhan alpharicinrhavirus* for Wuhan tick virus 1 (WhTV-1), discovered by HTS in Asian blue ticks (*Rhipicephalus microplus* (Canestrini, 1888)) sampled in Wúhàn (武汉市), Húběi Province (湖北省), China [61]. *Rhipicephalus* associated rhabdo-like virus (RaRLV/YN-rhabdoV1) [90] is a junior synonym of WhTV-1; and
  - Genus *Merhavirus*, including two novel species (TaxoProp 2020.015M.A.v1.Merhavirus\_1gen2nsp):
    - *Merida merhavirus* for Merida virus (MERDV), discovered in southern house mosquitoes (*Culex quinquefasciatus* Say, 1823), black salt marsh mosquitoes (*Aedes taeniorhynchus* (Wiedemann, 1821)), and *Aedes trivittatus* (Coquillett, 1902) mosquitoes sampled on Yucatán Peninsula, Mexico [75]. *Culex* rhabdovirus (CXRV) [86] and Merida-like virus Turkey (MLVT) [28] are junior synonyms of MERDV; and
    - *Tritaeiorhynchus merhavirus* for *Culex* tritaeiorhynchus rhabdovirus (CTRV) isolated from culicid mosquitoes (*Aedes taeniorhynchus* (Wiedemann, 1821)) sampled in Chiba (千葉市), Chiba Prefecture (千葉県), Japan [58].
- Seven new genera, not assigned to a subfamily, were included in the family:
- Genus *Alphacrustrhavirus*, including two new species (TaxoProps 2020.023M.A.v1.Rhabdoviridae\_7ngen\_16nsp and 2020.030M.R.Negarnaviricota\_corrections):
    - *Wenling alphacrustrhavirus* for Wenling crustacean virus 10 (WICV-10), discovered by HTS in a pool of marine crustaceans of multiple families sampled in Zhèjiāng Province (浙江省), China [91]; and
    - *Zhejiang alphacrustrhavirus* for Wenling crustacean virus 11 (WICV-11), discovered by HTS in a pool of marine crustaceans of multiple families sampled in Zhèjiāng Province (浙江省), China [91];
  - Genus *Alphadrosrhavirus*, including two new species (TaxoProp 2020.023M.A.v1.Rhabdoviridae\_7ngen\_16nsp):
    - *Hubei alphadrosrhavirus* for Wuhan house fly virus 2 (WhHFV-2), discovered by HTS in houseflies (*Musca domestica* Linnaeus, 1758) collected in Húběi Province (湖北省), China [61]; and
    - *Shayang alphadrosrhavirus* for Shayang fly virus 3 (SyFV-3), discovered by HTS in oriental latrine flies (*Chrysomya megacephala* (Fabricius, 1794)) collected in Húběi Province (湖北省), China [61];
  - Genus *Alphahymrhavirus*, including four new species (TaxoProp 2020.023M.A.v1.Rhabdoviridae\_7ngen\_16nsp):
    - *Cinereus alphahymrhavirus* for hymenopteran rhabdo-related virus 38 (HyRRV-38), discovered in a TSA of a leaden spider wasp (*Pompilus cinereus* Fabricius, 1798) collected in Birkenheide, Rhineland-Palatinate (Rheinland-Pfalz), Germany [49];
    - *Hirtum alphahymrhavirus* for hymenopteran rhabdo-related virus 109 (HyRRV-109), discovered in a TSA of a cricket hunter wasp (*Chlorion hirtum* (Kohl, 1885)) collected in Ein Bokek (אֵין בּוֹקֵק), Israel [49];
    - *Neglectus alphahymrhavirus* for *Lasius neglectus* virus 2 (LnegV-2), discovered in the transcriptome of an ant (*Lasius neglectus* Van Loon, Boomsma & Andrásfalvy, 1990) sampled in the UK [52]; and
    - *Radians alphahymrhavirus* for hymenopteran rhabdo-related virus 46 (HyRRV-46) discovered in a TSA of a cuckoo wasp (*Chrysura radians* (Harris, 1776)) collected in Turlin, Italy, in 2012 [49];
  - Genus *Betahymrhavirus*, including two new species (TaxoProp 2020.023M.A.v1.Rhabdoviridae\_7ngen\_16nsp):
    - *Austriaca betahymrhavirus* for hymenopteran rhabdo-related virus 23 (HyRRV-23), discovered in a TSA of a cuckoo wasp (*Chrysura austriaca* (Fabricius, 1804)) collected in Battenberg, Rhineland-Palatinate (Rheinland-Pfalz), Germany [49]. Hymenopteran rhabdo-related virus 22 (HyRRV-22) [49] is a junior synonym of HyRVV-23; and
    - *Heterodontonyx betahymrhavirus* for hymenopteran rhabdo-related virus 24 (HyRRV-24), discovered in

a TSA of a spider wasp (*Heterodontonyx* sp.) collected in Western Australia [49];

- Genus *Betanemrhavirus*, including two new species (TaxoProp 2020.023M.A.v1.Rhabdoviridae\_7ngen\_16nsp):
  - *Hubei betanemrhavirus* for Hubei rhabdo-like virus 9 (HbRLV-9) detected in large pig roundworms (*Ascaris suum* (Goeze, 1782)) sampled in Húběi Province (湖北省), China [91]; and
  - *Shayang betanemrhavirus* for Shayang ascaridia galli virus 2 (SyAGV-2) detected in roundworms (*Ascaridia galli* Schrank, 1788 and *Ascaris suum* (Goeze, 1782)) sampled in Húběi Province (湖北省), China, [91];
- Genus *Betapapravirus*, including two new species (TaxoProp 2020.023M.A.v1.Rhabdoviridae\_7ngen\_16nsp):
  - *Frugiperda betapapravirus* for Spodoptera frugiperda rhabdovirus (SfruRV) isolated originally in the Sf9 cell line derived from a fall armyworm (*Spodoptera frugiperda* (J. E. Smith, 1797)) [67]; and
  - *Sylvina betapapravirus* for lepidopteran rhabdo-related virus 34 (LeRRV-34), discovered in a TSA of an orange moth (*Triodia sylvina* (Linnaeus, 1761)) collected in Hóhbeck, Lower Saxony (Niedersachsen), Germany [49]; and
- genus *Betaricinrhavirus*, including two new species (TaxoProp 2020.023M.A.v1.Rhabdoviridae\_7ngen\_16nsp):
  - *Chimay betaricinrhavirus* for Chimay rhabdovirus (CRV), discovered by HTS in castor bean ticks (*Ixodes ricinus* (Linnaeus, 1758)) sampled in Belgium [unpublished; GenBank #MF975531]; and
  - *Scapularis betaricinrhavirus* for blacklegged tick rhabdovirus 1 (BLTRV-1), discovered by HTS in deer ticks (*Ixodes scapularis* Say, 1821) sampled in Connecticut and New York, USA [100].

Genus *Alphanucleorhabdovirus* was expanded by two species (TaxoProp 2020.013M.A.v1.Plant\_rhabdoviruses\_9nsp):

- *Constricta yellow dwarf alphanucleorhabdovirus* for constricta yellow dwarf virus (CYDV) first isolated from potato (*Solanum tuberosum* L.) in New Jersey, USA [11]. Potato yellow dwarf virus New Jersey (PYDV-New Jersey) is a junior synonym of CYDV [48]; and

- *Peach alphanucleorhabdovirus* for peach virus 1 (PeV1), discovered by HTS in peach (*Prunus persica* L.) trees sampled in China [115];

Genus *Betanucleorhabdovirus* was expanded by three species (TaxoProp 2020.013M.A.v1.Plant\_rhabdoviruses\_9nsp):

- *Apple betanucleorhabdovirus* for apple rootstock virus A (ApRVA), discovered by HTS in apple (*Malus* spp.) trees in North Gyeongsang Province (경상북도), South Korea [4];
- *Cardamom betanucleorhabdovirus* for cardamom vein clearing virus (CdVCV), discovered by HTS in green cardamon (*Elettaria cardamomum* (L.) Maton) sampled in India [9]; and
- *Pepper betanucleorhabdovirus* for Zhuye pepper nucleorhabdovirus (ZPNRV), discovered by HTS in winged prickly ash (*Zanthoxylum armatum* DC. v. *novemfolium*) sampled in China [15].

Genus *Cytorhabdovirus* was expanded by five species (TaxoProps 2020.004M.A.v1.Cytorhabdovirus\_3nsp and 2020.013M.A.v1.Plant\_rhabdoviruses\_9nsp):

- *Strawberry cytorhabdovirus 1* for strawberry virus 1 (StrV-1) and strawberry-associated virus 1 (SaV-1), discovered by HTS in garden strawberries (*Fragaria × ananassa* Duchesne and *Fragaria vesca* var. *semperflorans* 'Rujana') and woodland strawberries (*Fragaria vesca* L.) sampled in China [25] and the Czech Republic [31];
- *Trichosanthes cytorhabdovirus* for Trichosanthes associated rhabdovirus 1 (TrARV1) identified in the transcriptome of cucurbit flowering plant (*Trichosanthes krilowii* Maxim.) sampled in China [37];
- *Trifolium pratense cytorhabdovirus A* for Trifolium pratense virus A (TpVA) isolated from red clovers (*Trifolium pratense* L.) sampled in Hladké Žitovice, Moravian-Silesian Region (Moravskoslezský kraj), Czech Republic [32];
- *Trifolium pratense cytorhabdovirus B* for Trifolium pratense virus B (TpVB), discovered by HTS in red clovers (*Trifolium pratense* L.) sampled in Boršov nad Vltavou, South Bohemia Region (Jihočeský kraj), Czech Republic [32]; and
- *Yerba mate cytorhabdovirus* for yerba mate virus A (YmVA), discovered by HTS in yerba mate (*Ilex paraguariensis* A.St.-Hil.) sampled in Gobernador Virasoro, Province of Corrientes (Provincia de Corrientes), Argentina [6].

Genus *Ephemerovirus* was expanded by three species (TaxoProp 2020.005M.A.v1.Ephemerovirus\_3nsp):



- *Hayes ephemerovirus* for Hayes Yard virus (HYV) isolated from a zebu (*Bos taurus indicus* Linnaeus, 1758) sampled in Northern Territory, Australia [12];
- *Kent ephemerovirus* for New Kent County virus (NKCV), discovered by HTS in a deer tick (*Ixodes scapularis* Say, 1821) sampled in New Kent County, Virginia, USA [100]; and
- *Puchong ephemerovirus* for Puchong virus (PUCV) first isolated in 1965 from culicid mosquitoes (*Mansonia uniformis* (Theobald, 1901)) collected in Selangor Darul Ehsan State (سلاڠور دار الإحسان), Malaysia [51].

Genus *Ledantevirus* was expanded by one species, *Bughendera ledantevirus*, for Bughendera virus (BUGV), discovered by HTS in nycteribiid bat flies (Dipselipoda) sampled in Bundibugyo District, Western Region, Uganda [7] (TaxoProp 2020.021M.A.v1.Ledantevirus\_1nsp).

Genus *Lostrhavirus* was expanded by one species: *Hyalomma lostrhavirus*, for Xinjiang tick rhabdovirus (XjTRV), discovered by HTS in ixodid ticks (*Hyalomma asiaticum* Schulze et Schlottko, 1929) collected in Xīnjiāng Uygur Autonomous Region (新疆维吾尔自治区), China [unpublished; GenBank #MH688524] (TaxoProp 2020.010M.A.v1.Lostrhavirus\_1nsp). Species name *Lonestar zarhavirus* was corrected to *Lonestar lostrhavirus* (TaxoProp 2020.006M.A.v1.Corrections).

Genus *Ohlsrhavirus* was expanded by three species (TaxoProp 2020.007M.A.v1.Ohlsrhavirus\_3nsp)

- *Angeles ohlsrhavirus* for *Culex* rhabdo-like virus Los Angeles (CRLVLA) detected by HTS in culicid mosquitoes (*Culex* sp.) collected in California, USA [86];
- *Lobeira ohlsrhavirus* for Lobeira virus (LOBV), discovered by HTS in culicid mosquitoes (*Psorophora albigena* (Peryassú, 1908) and *Aedes albopictus* (Skuse, 1894)) collected in Mato Grosso State, Brazil [21, 94]; and
- *Pseudovishnui ohlsrhavirus* for *Culex* pseudovishnui rhabdo-like virus (CpRLV), discovered by HTS in culicid mosquitoes (*Culex pseudovishnui* Colless, 1957) collected in Isahaya (諫早市), Nagasaki Prefecture (長崎県), Japan [30].

Genus *Sigmavirus* was expanded by ten species (TaxoProp 2020.003M.A.v1.Sigmavirus\_10nsp):

- *Capitata sigmavirus* for *Ceratitis capitata* sigmavirus (CCapSV), discovered by HTS in Mediterranean fruit flies (*Ceratitis capitata* (Wiedemann, 1824)) sampled in Hawaii, USA [65];
- *Domestica sigmavirus* for Wuhan fly virus 2 (WhFV-2), discovered by HTS in houseflies (*Musca domestica* Linnaeus, 1758) sampled in Wūhàn (武汉市), Húběi Province (湖北省), China [61];

- *Hippoboscid sigmavirus* for Wuhan louse fly virus 9 (WhLFV-9), discovered by HTS in louse flies (Hippoboscidae) sampled in Wūhàn (武汉市), Húběi Province (湖北省), China [61];
- *Hubei sigmavirus* for Hubei diptera virus 9 (HbDV-9), discovered by HTS in unidentified flies (Diptera) sampled in Húběi Province (湖北省), China [91];
- *Lousefly sigmavirus* for Wuhan louse fly virus 10 (WhLFV-10), discovered by HTS in louse flies (Hippoboscidae) sampled in Wūhàn (武汉市), Húběi Province (湖北省), China [61];
- *Myga sigmavirus* for Hubei diptera virus 10 (HbDV-10), discovered by HTS in unidentified flies (Diptera) sampled in Húběi Province (湖北省), China [91];
- *Shayang sigmavirus* for Shayang fly virus 2 (SyFV-1), discovered by HTS in houseflies (*Musca domestica* Linnaeus, 1758) sampled in Shāyáng County (沙洋县), Húběi Province (湖北省), China [61];
- *Sturtevantii sigmavirus* for *Drosophila sturtevantii* sigmavirus (DStuSV), discovered by HTS in fruit flies (*Drosophila sturtevantii* Duda, 1927) sampled in Granada, Andalusia, Spain [65];
- *Wuhan sigmavirus* for Wuhan house fly virus 1 (WhHFV-1), discovered by HTS in houseflies (*Musca domestica* Linnaeus, 1758) sampled in Wūhàn (武汉市), Húběi Province (湖北省), China [61, 91]; and
- *Ying sigmavirus* for Hubei dimarhabdovirus 1 (HbDRV-1), discovered by HTS in unidentified flies (Diptera) sampled in Húběi Province (湖北省), China [91].

Genus *Sunrhavirus* was expanded by one species, *Dillard sunrhavirus*, for Dillard's Draw virus (DDR), discovered by HTS in culicid mosquitoes (*Culex tarsalis* Linnaeus, 1758) sampled in New Mexico, USA [82] (TaxoProp 2020.008M.A.v1.Sunrhavirus\_1nsp).

Genus *Varicosavirus* was expanded by two species (TaxoProp 2020.013M.A.v1.Plant\_rhabdoviruses\_9nsp):

- *Alopecurus varicosavirus* for *Alopecurus myosuroides* varicosavirus 1 (AMVV-1) identified by transcriptome sequencing in black-grass (*Alopecurus myosuroides* Huds.) in the UK [85]; and
- *Trifolium varicosavirus* for red clover associated varicosavirus (RCaVV), discovered by HTS in red clover (*Trifolium pratense* L.) sampled in Hladké Žitovice, Moravian-Silesian Region (Moravskoslezský kraj), Czech Republic [53].

Genus *Vesiculovirus* was expanded by one species, *Rhinolophus vesiculovirus*, for Jinghong bat virus (JhBV), discovered in an intermediate horseshoe bat (*Rhinolophus affinis* Horsfield, 1823) sampled in Jǐnghóng (景洪市), Yúnnán Province (云南省), China

[111] (TaxoProp 2020.009M.A.v1.Vesiculovirus\_1nsp\_ren1sp). Species *American bat vesiculovirus* was renamed *Eptesicus vesiculovirus* (TaxoProp 2020.009M.A.v1.Vesiculovirus\_1nsp\_ren1sp).

## Taxonomic changes within order *Bunyvirales* (*Polyploviricotina*: *Elliovicetes*)

### Family *Arenaviridae*

Genus *Antennavirus* was expanded by one species, *Salmon antennavirus*, for salmon pescarenavirus 1 (SPAV-1), discovered by HTS in Chinook salmon (*Oncorhynchus tshawytscha* (Walbaum, 1792)) and salmon pescarenavirus 2 (SPAV-2) in sockeye salmon (*Oncorhynchus nerka* (Walbaum, 1792)) [71] (TaxoProp 2020.018M.A.v1.Antennavirus).

Genus *Hartmanivirus* was expanded by two species: *Heimat hartmanivirus* for andere Heimat virus 1 (aHeV-1) and *Setpatvet hartmanivirus* for SetPatVet virus 1 (SPVV-1), both discovered by HTS in Brazilian boa constrictors (*Boa constrictor* Linnaeus, 1758) [3, 43] (TaxoProp 2020.019M.A.v2.Hartmanivirus).

Genus *Mammarenavirus* was expanded by one species, *Kitale mammarenavirus*, for Kitale virus (KTLV) first discovered by HTS in a Macmillan's grammomys (*Grammomys macmillani* (Wroughton, 1907)), sampled in Kitale, Trans-Nzoia County, Kenya [76] (TaxoProp 2020.017M.A.v2.Mammarenavirus).

### Family *Cruliviridae*

In genus *Lincruvirus*, two new species were established (TaxoProp 2020.002M.A.v2.Lincruvirus\_2nsp):

- *Lincruvirus europense* for European shore crab virus 1 (EscV-1; previously named “Carcinus maenas Portunibunyavirus 1”), discovered by HTS in European shore crabs (*Carcinus maenas* (Linnaeus, 1758)) [13]; and
- *Lincruvirus sinense* for Chinese mitten crab virus 1 (CmcV-1; previously named “Eriocheir sinensis Bunya like virus”), discovered by HTS in Chinese mitten crabs (*Eriocheir sinensis* Milne-Edwards, 1853) [44].

Species *Crustacean lincruvirus* was renamed *Lincruvirus wenlingense* (TaxoProp 2020.002M.A.v2.Lincruvirus\_2nsp).

### Family *Fimoviridae*

Genus *Emaravirus* was expanded by ten species:

- *Actinidia emaravirus 2* for Actinidia virus 2 (AcV-2), discovered by RT-PCR in kiwifruit (*Actinidia* sp.) collected in Zhèjiāng Province (浙江省), China [106] (TaxoProp 2020.012P.A.v1.Emaravirus\_AcV-2);
- *Aspen mosaic-associated emaravirus* for aspen mosaic-associated virus (AsMaV), discovered by HTS in Eurasian aspen (*Populus tremula* L.) sampled in Sweden [103] (TaxoProp 2020.013P.A.v1.Emaravirus\_AsMaV);
- *Camellia japonica-associated emaravirus 1* for Camellia japonica-associated virus 1 (CjaV-1), discovered by HTS in common camellia (*Camellia japonica* L.) sampled at Lake Maggiore, Piedmont, Italy [78, 114] (TaxoProp 2020.018P.A.v1.Emaravirus\_CjaV-1);
- *Camellia japonica-associated emaravirus 2* for Camellia japonica-associated virus 2 (CjaV-2), discovered by HTS in common camellia (*Camellia japonica* L.) sampled at Lake Maggiore, Piedmont, Italy [78, 114] TaxoProp 2020.019P.A.v1.Emaravirus\_CjaV-2);
- *Jujube yellow mottle-associated emaravirus* for jujube yellow mottle-associated virus (JYMaV), discovered by HTS in jujube (*Ziziphus jujuba* Mill.) sampled in Cháoyáng (朝阳市), Liáoníng Province (辽宁省), China [112] (TaxoProp 2020.020P.A.v1.Emaravirus\_JYMaV);
- *Lilac chlorotic ringspot-associated emaravirus* for lilac chlorotic ringspot-associated virus (LiCRaV), discovered by HTS in lilac (*Syringa vulgaris* L.) sampled in Yán'ān (延安市), Shaanxi/Shānxī Province (陕西省), China [105] (TaxoProp 2020.014P.A.v1.Emaravirus\_LiCRaV);
- *Palo verde broom emaravirus* for palo verde broom virus (PVBV), discovered by HTS in a blue palo verde tree (*Parkinsonia florida* (Benth. ex A.Gray) S. Wats.) sampled in Arizona, USA [47] (TaxoProp 2020.015P.A.v1.Emaravirus\_PVBV);
- *Pear chlorotic leaf spot-associated emaravirus* for pear chlorotic leaf spot-associated virus (PCLSaV), discovered by HTS in Asian pear plants (*Pyrus pyrifolia* (Burm.) Nak.) sampled in southern China [63] (TaxoProp 2020.016P.A.v1.Emaravirus\_PCLSaV);
- *Perilla mosaic emaravirus* for perilla mosaic virus (PerMV), discovered in perilla (*Perilla frutescens* (L.) Britton) sampled in Japan [55] (TaxoProp 2020.021P.A.v1.Emaravirus\_PerMV); and
- *Ti ringspot-associated emaravirus* for ti ringspot-associated virus (TiRSaV), discovered in ti (*Cordyline fruticosa* L.) sampled on the islands of Oahu, Maui, and Hawaii, USA [74] (TaxoProp 2020.017P.A.v1.Emaravirus\_TiRSaV).

### Family *Hantaviridae*

Genus *Actinivirus* was expanded by one species, *Perch actinivirus*, for Bern perch virus (BRPV), discovered by HTS

in European perch (*Perca fluviatilis* Linnaeus, 1758) sampled in Switzerland [unpublished; GenBank # MN510769/MN510770/MN510771] (TaxoProp 2020.025M.A.v2.Hantaviridae\_5nsp).

Genus *Mobatvirus* was expanded by two species (TaxoProp 2020.025M.A.v2.Hantaviridae\_5nsp):

- *Lena mobatvirus* for Lena virus (LENV), discovered by RT-PCR in a Laxmann's shrew (*Sorex caecutiens* Laxmann, 1785) sampled in Khabarovsk (Хабаровск), Khabarovsk Krai (Хабаровский край,) Russia [113]; and
- *Xuan Son mobatvirus* for Xuân Sơn virus (XSV), discovered by RT-PCR in a Pomona leaf-nosed bat (*Hipposideros pomona* K. Andersen, 1918) in Xuân Sơn National Park, Phú Thọ Province, Vietnam [2].

Genus *Orthohantavirus* was expanded by two species (TaxoProp 2020.025M.A.v2.Hantaviridae\_5nsp):

- *Robina orthohantavirus* for Robina virus (ROBV), discovered in a black flying fox (*Pteropus alecto* Temminck, 1837) sampled near Robina, Queensland, Australia [unpublished; GenBank #MK165653/MK165654/MK165655]; and
- *Tatenale orthohantavirus* for Tatenale virus (TATV) first discovered by RT-PCR in a field vole (*Microtus agrestis* (Linnaeus, 1761)) trapped in North West England, UK [16, 81].

## Family *Nairoviridae*

Family *Nairoviridae* was thoroughly revised (TaxoProps 2020.027M.A.v1.Nairoviridae\_4ngen\_30nsp and 2020.030M.R.Negarnaviricota\_corrections). Four new genera were added:

- Genus *Norwavirus* was created for a single new species, *Grotenhout norwavirus*, for Grotenhout virus (GRHV), discovered by HTS in a castor bean tick (*Ixodes ricinus* (Linnaeus, 1758)) sampled in Grotenhout, Belgium [101]. Junior synonyms for Grotenhout virus are Norway nairovirus 1 [79] and Pustyn virus [unpublished; GenBank #KT007142/KT007143];
- Genus *Ocetevirus* was created for a single new species, *Blattodean ocetevirus*, for blattodean nairo-related virus 321 (BNRV-321), now renamed red goblin roach virus 1 (RGRV-1), discovered by HTS in a red goblin roach (*Paratemnopteryx coulöniana* (Saussure, 1863)) sampled in Germany [49];
- Genus *Sabavirus* was created for a single new species, *South Bay sabavirus*, for South Bay virus (SBV), discov-

ered by HTS in a deer tick (*Ixodes scapularis* Say, 1821) in Great South Bay, New York, USA [99]; and

- Genus *Xinispivirus* was created for a single new species, *Xinzhou xinispivirus*, for Xinzhōu spider virus (XSV), discovered by HTS in a brown sailor spider (*Neoscona nautica* (L. Koch, 1875)) in Xinzhōu District (新洲区), Wūhàn (武汉市), Húběi Province (湖北省), China [61].

Genus *Orthonairovirus* was expanded by 26 species:

- *Abu Hammad orthonairovirus* for Abū Ḥammād virus (AHV) was moved from *Dera Ghazi Khan orthonairovirus*;
- *Abu Mina orthonairovirus* for Abū Mīnā virus (AMV) was moved from *Dera Ghazi Khan orthonairovirus*;
- *Avalon orthonairovirus* for Avalon virus (AVAV) was moved from *Sakhalin orthonairovirus*;
- *Bandia orthonairovirus* for Bandia virus (BDV) was moved from *Qalyub orthonairovirus*;
- *Burana orthonairovirus* for Burana virus (BURV) was moved from *Tamdy orthonairovirus*;
- *Congoid orthonairovirus* for Crimean-Congo hemorrhagic fever virus (CCHFV) genogroup VI (Europe 2), now renamed Aigai virus (AIGV), isolated in 1975 from an ixodid tick (*Rhipicephalus bursa* Canestrini & Fanzago, 1878) sampled in Vergina (Βεργίνα; ancient Aigai [Αἰγαί]), Central Macedonia Region (Περιφέρεια Κεντρικής Μακεδονίας), Greece [77, 116];
- *Erve orthonairovirus* for Erve virus (ERVEV) was moved from *Thiafora orthonairovirus*;
- *Gossas orthonairovirus* for Gossas virus (GOSV) was moved from *Keterah orthonairovirus*;
- *Huangpi orthonairovirus* for Huángpí tick virus 1 (HpTV-1) was moved from *Tamdy orthonairovirus*;
- *Issyk-kul orthonairovirus* for Issyk-kul virus (ISKV) was moved from *Keterah orthonairovirus*;
- *Kupe orthonairovirus* for kupe virus (KUPEV) was moved from *Dugbe orthonairovirus*;
- *Leopards Hill orthonairovirus* for Leopards Hill virus (LPHV) was moved from *Keterah orthonairovirus*;
- *Meram orthonairovirus* for Meram virus (MEMV), discovered by HTS in an ixodid tick (*Hyalomma aegyptium* Linnaeus, 1758) sampled in Konya, Central Anatolia Region (İç Anadolu Bölgesi), Turkey [29];
- *Pacific Coast orthonairovirus* for Pacific Coast tick nairovirus (PCTNV), discovered by HTS in a Pacific Coast tick (*Dermacentor occidentalis* Marx, 1892) sampled in Mendocino County, California, USA [14];
- *Punta orthonairovirus* for Punta Salinas virus (PSV) was moved from *Hughes orthonairovirus*;
- *Sapphire orthonairovirus* for Sapphire II virus (SAPV) was moved from *Dera Ghazi Khan orthonairovirus*;

- *Scot orthonairovirus* for Clo Mor virus (CLMV) was moved from *Sakhalin orthonairovirus*;
- *Soldado orthonairovirus* for Soldado virus (SOLV) was moved from *Hughes orthonairovirus*;
- *Tacheng orthonairovirus* for Tāchéng tick virus 1 (TcTV-1) was moved from *Tamdy orthonairovirus*;
- *Taggert orthonairovirus* for Taggert virus (TAGV) was moved from *Sakhalin orthonairovirus*;
- *Tofla orthonairovirus* for tofla virus (TFLV) was moved from *Hazara orthonairovirus*;
- *Tunis orthonairovirus* for Tunis virus (TUNV) was moved from *Abu Hammad orthonairovirus*;
- *Vinegar Hill orthonairovirus* for Vinegar Hill virus (VINHV) isolated in 1981 from ixodid ticks (*Argas robertsi* Hoogstraal, Kaiser & Kohls, 1968) sampled in Gattton, Queensland, Australia [36, 97];
- *Wenzhou orthonairovirus* for Wēnzhōu tick virus (WzTV) was moved from *Tamdy orthonairovirus*;
- *Yogue orthonairovirus* for Yogue virus (YOGV) was moved from *Keterah orthonairovirus*; and
- *Zirqa orthonairovirus* for Zirqa virus (ZIRV) was moved from *Hughes orthonairovirus*.

### Family *Peribunyaviridae*

Genus *Orthobunyavirus* was expanded by 16 species (TaxoProps 2020.012M.A.v1.Orthobunyavirus\_16new\_sp\_abolish\_1sp and 2020.030M.R.Negarnaviricota\_corrections):

- *Brazoran orthobunyavirus* for brazoran virus (BRAZV) isolated from culicid mosquitoes (*Culex* sp.) in Brazoria and Montgomery Counties, Texas, USA [59];
- *Buffalo Creek orthobunyavirus* for Buffalo Creek virus (BUCV) first isolated in 1982 from culicid mosquitoes (*Anopheles meraukensis* Venhuis, 1932) in Darwin, Northern Territory, Australia [34, 107];
- *Gan Gan orthobunyavirus* for Gan Gan virus (GGV) first isolated in 1970 from culicid mosquitoes (*Ochlerotatus vigilax* (Skuse, 1889)) collected at Nelson Bay, New South Wales, Australia [33, 35, 69];
- *Mapputta orthobunyavirus* for Mapputta virus (MAPV) first isolated in 1960 from culicid mosquitoes (*Anopheles meraukensis* Venhuis, 1932) collected in Queensland, Australia [10, 26, 34];
- *Maprik orthobunyavirus* for Maprik virus (MPKV) first isolated in 1966 from culicid mosquitoes (*Verrallina funerea* (Theobald, 1903)) sampled in Maprik, East Sepik Province, Papua New Guinea [27, 34];
- *Oyo orthobunyavirus* for Oyo virus (OYOV) first isolated in 1964 in Nigeria [unpublished; GenBank #HM63977/HM63979/HM63980];

- *Sedlec orthobunyavirus* for Sedlec virus (SEDV) first isolated in 1984 from a Eurasian reed warbler (*Acrocephalus scirpaceus* (Hermann, 1804)) sampled in South Moravian Region (Jihomoravský kraj), Czech Republic [45, 46, 50];
- *Trinito orthobunyavirus* for Trinito virus (TNTV) isolated first in 1955 from a culicid mosquito (*Trichoprosopon* sp.) sampled in Port of Spain, Trinidad and Tobago [62, 96];
- Abras virus (ABRV) was moved from species *Patois orthobunyavirus* into new species *Abras orthobunyavirus*;
- Ananindeua virus (ANUV) was moved from species *Guama orthobunyavirus* into new species *Ananindeua orthobunyavirus*;
- Apeú virus (APEUV) was moved from species *Caraparu orthobunyavirus* into new species *Apeu orthobunyavirus*;
- Bruconha virus (BRUV) was moved from species *Caraparu orthobunyavirus* into new species *Bruconha orthobunyavirus*;
- Mahogany Hammock virus (MHV) was moved from species *Guama orthobunyavirus* into new species *Mahogany Hammock orthobunyavirus*;
- Matruh virus (MTRV) was moved from species *Tete orthobunyavirus* into new species *Matruh orthobunyavirus*;
- Moju virus (MOJUV) was moved from species *Guama orthobunyavirus* into new species *Moju orthobunyavirus*; and
- Shark River virus (SRV) was moved from species *Patois orthobunyavirus* into new species *Shark River orthobunyavirus*.

Species *Zegla orthobunyavirus* was abolished (TaxoProp 2020.012M.A.v1.Orthobunyavirus\_16new\_sp\_abolish\_1sp).

### Family *Phasmaviridae*

The family was expanded by new genus *Hymovirus* for two new species (TaxoProp 2020.020M.A.v1.Phasmaviridae):

- *Hymenopteran hymovirus 1* for hymenopteran phasma-related virus OKIAV252 (HyHV-1), discovered by HTS in cuckoo wasps (*Chrysura cuprea* (Rossi, 1790)) in Ponderel, Aosta Valley (Valle d'Aosta), Italy [49]; and
- *Hymenopteran hymovirus 2* for hymenopteran phasma-related virus OKIAV250 (HyHV-2) detected in cuckoo wasps (*Chrysis gracillima* Foerster, 1853) in Büchlberg/Godramstein, Rhineland-Palatinate (Rheinland-Pfalz), Germany [49].

Genus *Feravirus* was expanded by two novel species (TaxoProp 2020.020M.A.v1.Phasmaviridae):

- *Hemipteran feravirus* for hemipteran phasma-related virus OKIAV247 (HeFV), discovered by HTS in a hawthorn shield bug (*Acanthosoma haemorrhoidale* (Linnaeus, 1758)) sampled in Donrath, North Rhine-Westphalia (Nordrhein-Westfalen), Germany [49]; and
- *Neuropteran feravirus* for neuropteran phasma-related virus OKIAV248 (NeFV), discovered by HTS in a green lacewing (*Peyerimhoffina gracilis* (Schneider, 1851)) sampled in Dürnstein, Lower Austria (Niederösterreich), Austria [49].

Genus *Orthophasmavirus* was expanded by four novel species (TaxoProp 2020.020M.A.v1.Phasmaviridae):

- *Coleopteran orthophasmavirus* for coleopteran phasma-related virus OKIAV235 (CPRV), discovered by HTS in a harlequin ladybeetle (*Harmonia axyridis* (Pallas, 1773)) sampled in Jena, Thuringia (Thüringen), Germany [49];
- *Hymenopteran orthophasmavirus 1* for hymenopteran phasma-related virus OKIAV228 (HyOV-1), discovered by HTS in a cuckoo wasp (*Philoctetes bogdanovii* (Radoszkowski, 1877)) in Pondel, Aosta Valley (Valle d'Aosta), Italy [49];
- *Hymenopteran orthophasmavirus 2* for hymenopteran phasma-related virus OKIAV227 for (HyOV-2), discovered by HTS in a cuckoo wasp (*Chrysis fasciata* Olivier, 1790) in Bellheim, Rhineland-Palatinate (Rheinland-Pfalz), Germany [49]; and
- *Niukluk phantom orthophasmavirus* for Niukluk phantom virus (NUKV), discovered by HTS in a phantom midge (*Chaoborus americanus* (Johannsen, 1903)) sampled in the Niukluk River valley, Nome Census Area, Alaska, USA [5].

## Family Phenuiviridae

The family was expanded by new genus *Tanzavirus* including a single new species, *Human tanzavirus*, for Dar es Salaam virus (DeSV), discovered by HTS in a human plasma sample collected in Dar es Salaam (دار السلام) Tanzania [60] (TaxoProp 2020.029M.A.v2.Pheniviridae\_1gen16sp).

Genus *Bandavirus* was expanded by one new species, *Razdan bandavirus*, for Razdan virus (RAZV) isolated from ixodid ticks (*Dermacentor marginatus* Sulzer, 1776) in Armenia in 1973 [66, 117] (TaxoProp 2020.029M.A.v2.Pheniviridae\_1gen16sp). Species name *Lone Star bandavirus* was corrected to *Lone star bandavirus* (TaxoProp 2020.006M.A.v1.Corrections).

Genus *Coguvirus* was expanded by one new species, *Grapevine coguvirus*, for grapevine associated cogu-like virus 1 (GaCLV-1), discovered by HTS in downy mildew-infected grapevines (*Vitis* sp.) sampled in Italy [18]. (TaxoProp 2020.029M.A.v2.Pheniviridae\_1gen16sp).

Genus *Horwuvirus* was expanded by one new species, *Kimberley horwuvirus*, for Fitzroy Crossing tenui-like virus 1 (FCTenV1) detected in culicid mosquitoes (*Culex annulirostris* Skuse, 1889) sampled in Kimberley Region, Australia [108] (TaxoProp 2020.029M.A.v2.Pheniviridae\_1gen16sp).

Genus *Laulavirus* was expanded by three new species: *Grapevine laulavirus 2, 3, and 4* for grapevine associated cogu-like viruses 2, 3, and 4 (GaCLV-2, GaCLV-3, GaCLV-4), respectively, discovered by HTS in downy mildew-infected grapevines (*Vitis* sp.) (GaCLV-2 and GaCLV-3) and esca-diseased grapevines (GaCLV-4) sampled in Italy [8, 18] (TaxoProp 2020.029M.A.v2.Pheniviridae\_1gen16sp).

Genus *Mobuvirus* was expanded by one new species, *Narangue mobuvirus*, for Narangue virus (NRGV), discovered by HTS in a culicid mosquito (*Mansonia titillans* (Walker, 1848)) sampled in Colombia [unpublished; GenBank #MN661012/MN661013/MN661014] (TaxoProp 2020.029M.A.v2.Pheniviridae\_1gen16sp).

Genus *Phasivirus* was expanded by two new species:

- *Guadeloupe phasivirus* for Guadeloupe mosquito phasivirus (GMPV), discovered by HTS in mosquitoes (*Aedes* sp.) collected in Les Abymes, Guadeloupe, France [89]; and
- *Kimberley phasivirus* for Parry's Creek phasivirus 1 (PCPhasV1), discovered by HTS in culicid mosquitoes (*Culex annulirostris* Skuse, 1889) sampled in Kimberley Region, Australia [108] (TaxoProp 2020.029M.A.v2.Pheniviridae\_1gen16sp and 2020.030M.R.Negarnaviricota\_corrections).

Genus *Phlebovirus* was expanded by six species:

- *Bogoria phlebovirus* for Bogoria virus (BGRV), discovered by HTS in phlebotomine sandflies sampled in Kapkuikui, Rift Valley Province, Kenya [68] (TaxoProp 2020.022M.A.v1.Phlebovirus\_4sp);
- *Corfou phlebovirus* for Corfou virus (CFUV) isolated from psychodid sandflies (*Phlebotomus major* Annandale, 1910) sampled in Corfou (Κέρκυρα), Ionian Islands (Περιφέρεια Ιονίων Νήσων), Greece, 1981 [1, 83] (TaxoProp 2020.029M.A.v2.Pheniviridae\_1gen16sp);
- *Embossos phlebovirus* for Embossos virus (EMBV), discovered by HTS in phlebotomine sandflies sampled in Kapkuikui, Rift Valley Province, Kenya [68] (TaxoProp 2020.022M.A.v1.Phlebovirus\_4sp);

- *Kiborgoch phlebovirus* for Kiborgoch virus (KBGV), discovered by HTS in phlebotomine sandflies sampled in Kapkuikui, Rift Valley Province, Kenya [68] (TaxoProp 2020.022M.A.v1.Phlebovirus\_4sp);
- *Penshurt phlebovirus* for Penshurt virus (PEHV), discovered by RT-PCR in a Hoffmann's two-toed sloth (*Choloepus hoffmanni* Peters, 1858) sampled in Limón Province, Costa Rica [22] (TaxoProp 2020.029M.A.v2.Pheniiviridae\_1gen16sp); and
- *Perkerra phlebovirus* for Perkerra virus (PKEV), discovered by HTS in phlebotomine sandflies sampled in Kapkuikui, Rift Valley Province, Kenya [68] (TaxoProp 2020.022M.A.v1.Phlebovirus\_4sp).

Species names *Salobo phlabovirus* and *Tico phebovirus* were corrected to *Salobo phlebovirus* and *Tico phlebovirus*, respectively (TaxoProp 2020.006M.A.v1.Corrections).

Genus *Pidchovirus* was expanded by one new species, *Coleopteran pidchovirus*, for coleopteran phenui-related virus 308 (CoPrV-308), discovered by HTS in spider mite destroyers (*Stethorus* sp.) sampled on Mount Tamborine, Queensland, Australia [49]. (TaxoProp 2020.029M.A.v2.Pheniiviridae\_1gen16sp).

Genus *Rubodvirus* was expanded by two new species: *Grapevine rubodvirus 1* and *2* for grapevine Garan dmak virus (GGDV) and grapevine Muscat rose virus for (GMRV), discovered by HTS in grapevines (*Vitis vinifera* L.) samples from Armenia and Argentina, respectively [24] (TaxoProp 2020.029M.A.v2.Pheniiviridae\_1gen16sp).

Genus *Tenuivirus* was expanded by one new species, *European wheat striate mosaic tenuivirus*, for European wheat striate mosaic virus (EWSMV) originally discovered in oats (*Avena sativa* L. cv. Pepino) in the 1960s [95] (TaxoProp 2020.029M.A.v2.Pheniiviridae\_1gen16sp).

In genus *Wenrivirus*, Mourilyan virus (MoV), first discovered in 1996 in giant tiger prawns (*Penaeus monodon* Fabricius, 1798) sampled in Mourilyan, Queensland, Australia [19], was recognized as a senior synonym of Wēnzhōu shrimp virus 1 (WzSV-1) [20].

## Summary

A summary of the current, ICTV-accepted taxonomy of the phylum *Negarnaviricota* is presented in an order-specific manner in Table 1 (*Goujianvirales*), Table 2 (*Jingchuvirales*), Table 3 (*Mononegavirales*), Table 4 (*Muvirales*), Table 5 (*Serpentovirales*), Table 6 (*Articulavirales*), and Table 7 (*Bunyavirales*) and in form of two posters (Supplementary Figure 1).

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**Table 1** ICTV-accepted taxonomy of the order *Goujianvirales* (*Negarnaviricota*: *Haploviricotina*: *Yunchangviricetes*) as of March 2021

Genus	Species <sup>‡</sup>	Virus (abbreviation) <sup>&amp;</sup>
Family <i>Yueviridae</i>		
<i>Yuyuevirus</i>	<i>Beihai yuyuevirus</i>	Běihǎi sesamid crab virus 3 (BhSCV-3)
	<i>Shahe yuyuevirus</i>	Shāhé yuèvirus-like virus 1 (ShYLV-1)

Note that viruses are real objects that are assigned to concepts that are called taxa. Species, genera, families, and orders are taxa

<sup>‡</sup>Taxon names are always italicized and always begin with a capital letter

<sup>&</sup>Virus names are not italicized and are not capitalized, except if the name or a name component is a proper noun. This column lists the virus names with their correct (lack of) capitalization

**Table 2** ICTV-accepted taxonomy of the order *Jingchuvirales* (*Negarnaviricota*: *Haploviricotina*: *Monjiviricetes*) as of March 2021

Genus	Species <sup>¶</sup>	Virus (abbreviation) <sup>&amp;</sup>
Family <i>Aliusviridae</i>		
<i>Obscurivirus</i>	<i>Obscurivirus quintum</i>	Atrato chu-like virus 5 (ACIV-5)
<i>Ollusvirus</i>	<i>Ollusvirus coleopteri</i>	Húběi coleoptera virus 3 (HbCV-3)
	<i>Ollusvirus culvertonense</i>	Culverton virus (CvV)
	<i>Ollusvirus hanchengense</i>	Hánchéng leafhopper mivirus (HLMV)
	<i>Ollusvirus hymenopteri</i>	hymenopteran chu-related virus 123 (HCrV-123)
	<i>Ollusvirus insectii</i>	hymenopteran chu-related virus 126 (HCrV-126)
	<i>Ollusvirus scaldisense</i>	Scaldis River bee virus (SRBV)
	<i>Ollusvirus shayangense</i>	Shāyáng fly virus 1 (SyFV-1)
	<i>Ollusvirus taiyuanense</i>	Tàiyuán leafhopper virus (TYLeV)
Family <i>Chuviridae</i>		
<i>Boscovirus</i>	<i>Boscovirus hippoboscidae</i>	Wūhàn louse fly virus 7 (WhLFV-7)
	<i>Boscovirus hypoboscidae</i>	Wūhàn louse fly virus 6 (WhLFV-6)
<i>Chuvivirus</i>	<i>Chuvivirus brunnichi</i>	Wēnlíng crustacean virus 14 (WICV-14)
	<i>Chuvivirus canceris</i>	Wēnzhōu crab virus 2 (WzCV-2)
<i>Culicidavirus</i>	<i>Culicidavirus culicidae</i>	Wūhàn mosquito virus 8 (WhMV-8)
	<i>Culicidavirus culicis</i>	Culex mosquito virus 5 (CIMV-5)
	<i>Culicidavirus imjinense</i>	Imjin River virus 1 (IJRV-1)
	<i>Culicidavirus quitotaense</i>	Culex mosquito virus 4 (CIMV-4)
<i>Demapteravirus</i>	<i>Demapteravirus demapteri</i>	dermapteran chu-related virus 142 (DCrV-142)
<i>Doliuvirus</i>	<i>Doliuvirus culisetae</i>	Mos8Chu0 chuvirus (MoCV)
<i>Mivirus</i>	<i>Mivirus amblyomae</i>	lone star tick chuvirus 1 (LSTCV-1)
	<i>Mivirus boleense</i>	Bólè tick virus 3 (BTV-3)
	<i>Mivirus changpingense</i>	Chāngpíng tick virus 2 (CpTV-2)
	<i>Mivirus dermacentoris</i>	Chāngpíng tick virus 3 (CpTV-3)
		Tāchéng tick virus 5 (TcTV-5)
		Genoa virus (GeV)
		Karukera tick virus (KtV)
		brown dog tick mivirus 1 (BDTMV-1)
		Suffolk virus (SFKV)
		Wūhàn tick virus 2 (WhTV-2)
<i>Morsusvirus</i>	<i>Morsusvirus argatis</i>	Tāchéng tick virus 4 (TcTV-4)
<i>Nigecruvivirus</i>	<i>Nigecruvivirus ixodes</i>	blacklegged tick chuvirus-2 (BITC-2)
<i>Odonatavirus</i>	<i>Odonatavirus draconis</i>	odonatan chu-related virus 137 (OCrV-137)
	<i>Odonatavirus fabricii</i>	Húběi odonate virus 11 (HbOV-11)
	<i>Odonatavirus odontis</i>	odonatan chu-related virus 136 (OCrV-136)
<i>Pediavirus</i>	<i>Pediavirus cirripedis</i>	Běihǎi barnacle virus 9 (BhBV-9)
<i>Piscichuvirus</i>	<i>Piscichuvirus franki</i>	Herr Frank virus 1 (HFrV-1)
	<i>Piscichuvirus lycodontis</i>	Guǎngdōng red-banded snake chuvirus-like virus (GRSCV)
	<i>Piscichuvirus sanxiaense</i>	Sānxiá atyid shrimp virus 4 (SxASC-4)
	<i>Piscichuvirus wenlingense</i>	Wēnlíng fish chu-like virus (WFCIV)
<i>Pterovirus</i>	<i>Pterovirus chulinense</i>	hymenopteran chu-related virus OKIAlV147 (HCrV-147)
<i>Scarabeuvirus</i>	<i>Scarabeuvirus blattae</i>	Wūchāng cockroach virus 3 (WcLFV-3)
	<i>Scarabeuvirus dentati</i>	Húběi chuvirus-like virus 3 (HbCLV-3)
	<i>Scarabeuvirus hubeiense</i>	Húběi chuvirus-like virus 1 (HbCLV-1)
	<i>Scarabeuvirus lampyris</i>	Lampyris noctiluca chuvirus-like virus 1 (LNCIV-1)
	<i>Scarabeuvirus lishiense</i>	Lǐshì spider virus 1 (LsSV-1)
<i>Taceavirus</i>	<i>Taceavirus wenlingense</i>	Wēnlíng crustacean virus 15 (WICV-15)
Family <i>Crepuscuviridae</i>		
<i>Aqualaruvirus</i>	<i>Aqualaruvirus sialis</i>	megalopteran chu-related virus 119 (MCRV-119)

**Table 2** (continued)

Genus	Species <sup>¶</sup>	Virus (abbreviation) <sup>&amp;</sup>
Family <i>Myriaviridae</i>		
<i>Myriavirus</i>	<i>Myriavirus myriapedis</i>	Húběi myriapoda virus 8 (HbMV-8)
Family <i>Natareviridae</i>		
<i>Charybdivirus</i>	<i>Charybdivirus charybdis</i>	Wēnzhōu crab virus 3 (WzCV-3)

Note that viruses are real objects that are assigned to concepts that are called taxa. Species, genera, families, and orders are taxa

<sup>¶</sup>Taxon names are always italicized and always begin with a capital letter

<sup>&</sup>Virus names are not italicized and are not capitalized, except if the name or a name component is a proper noun. This column lists the virus names with their correct (lack of) capitalization. Lists of viruses within a given species are provisional at this point and will likely be amended in the near future

**Table 3** ICTV-accepted taxonomy of the order *Mononegavirales* (*Negarnaviricota*: *Haploviricotina*: *Monjiviricetes*) as of March 2021

Genus	Species <sup>¶</sup>	Virus (abbreviation) <sup>&amp;</sup>
Family <i>Artoviridae</i>		
<i>Hexartovirus</i>	<i>Barnacle hexartovirus</i>	Běihǎi barnacle virus 8 (BhBV-8)
	<i>Caligid hexartovirus</i>	Lepeophtheirus salmonis negative-stranded RNA virus 1 (LsNSRV-1)
<i>Peropuvirus</i>	<i>Beihai peropuvirus</i>	Běihǎi rhabdo-like virus 1 (BhRLV-1)
	<i>Hubei peropuvirus</i>	Húběi rhabdo-like virus 6 (HbRLV-6)
	<i>Odonate peropuvirus</i>	Húběi rhabdo-like virus 8 (HbRLV-8)
	<i>Pillworm peropuvirus</i>	Húběi rhabdo-like virus 5 (HbRLV-5)
	<i>Pteromalus puparum peropuvirus</i>	Pteromalus puparum negative-strand RNA virus 1 (PpNSRV-1)
	<i>Woodlouse peropuvirus</i>	Běihǎi rhabdo-like virus 2 (BhRLV-2)
Family <i>Bornaviridae</i>		
<i>Carbovirus</i>	<i>Queensland carbovirus</i>	jungle carpet python virus (JCPV)
	<i>Southwest carbovirus</i>	southwest carpet python virus (SWCPV)
<i>Cultervirus</i>	<i>Sharpbelly cultervirus</i>	Wūhàn sharpbelly Bornavirus (WhSBV)
<i>Orthobornavirus</i>	<i>Elapid 1 orthobornavirus</i>	Loveridge's garter snake virus 1 (LGSV-1)
	<i>Mammalian 1 orthobornavirus</i>	Borna disease virus 1 (BoDV-1)
		Borna disease virus 2 (BoDV-2)
	<i>Mammalian 2 orthobornavirus</i>	variegated squirrel bornavirus 1 (VSBV-1)
	<i>Passeriform 1 orthobornavirus</i>	canary bornavirus 1 (CnBV-1)
		canary bornavirus 2 (CnBV-2)
		canary bornavirus 3 (CnBV-3)
	<i>Passeriform 2 orthobornavirus</i>	estrildid finch bornavirus 1 (EsBV-1)
	<i>Psittaciform 1 orthobornavirus</i>	parrot bornavirus 1 (PaBV-1)
		parrot bornavirus 2 (PaBV-2)
		parrot bornavirus 3 (PaBV-3)
		parrot bornavirus 4 (PaBV-4)
		parrot bornavirus 7 (PaBV-7)
	<i>Psittaciform 2 orthobornavirus</i>	parrot bornavirus 5 (PaBV-5)
	<i>Waterbird 1 orthobornavirus</i>	aquatic bird bornavirus 1 (ABBV-1)
		aquatic bird bornavirus 2 (ABBV-2)
Family <i>Filoviridae</i>		
<i>Cuevavirus</i>	<i>Lloviu cuevavirus</i>	Lloviu virus (LLOV)
<i>Dianlovirus</i>	<i>Mengla dianlovirus</i>	Měnglà virus (MLAV)
<i>Ebolavirus</i>	<i>Bombali ebolavirus</i>	Bombali virus (BOMV)
	<i>Bundibugyo ebolavirus</i>	Bundibugyo virus (BDBV)
	<i>Reston ebolavirus</i>	Reston virus (RESTV)
	<i>Sudan ebolavirus</i>	Sudan virus (SUDV)
	<i>Tai Forest ebolavirus</i>	Tai Forest virus (TAFV)
	<i>Zaire ebolavirus</i>	Ebola virus (EBOV)



Table 3 (continued)

Genus	Species <sup>¶</sup>	Virus (abbreviation) <sup>&amp;</sup>
<i>Marburgvirus</i>	<i>Marburg marburgvirus</i>	Marburg virus (MARV) Ravn virus (RAVV)
<i>Striavirus</i>	<i>Xilang striavirus</i>	Xīlāng virus (XILV)
<i>Thamnovirus</i>	<i>Huangjiao thamnovirus</i>	Huángjiāo virus (HUJV)
Family <i>Lispiviridae</i>		
<i>Arlivirus</i>	<i>Gerrid arlivirus</i>	Sānxiá water strider virus 4 (SxWSV-4)
	<i>Hubei arlivirus</i>	Húběi rhabdo-like virus 3 (HbRLV-3)
	<i>Lishi arlivirus</i>	Līshì spider virus 2 (LsSV-2)
	<i>Odonate arlivirus</i>	Húběi odonate virus 10 (HbOV-10)
	<i>Tacheng arlivirus</i>	Tāchéng tick virus 6 (TcTV-6)
	<i>Wuchang arlivirus</i>	Wūchāng romanomermis nematode virus 2 (WcRNV-2)
Family <i>Mymonaviridae</i>		
<i>Auricularimonavirus</i>	<i>Auricularimonavirus auriculariae</i>	Auricularia heimuer negative-stranded RNA virus 1 (AhNRSV-1)
<i>Botrytimonavirus</i>	<i>Botrytimonavirus botrytidis</i>	Botrytis cinerea negative-stranded RNA virus 7 (BcNSRV-7)
	<i>Botrytimonavirus glycinis</i>	soybean leaf-associated negative-stranded RNA virus 3 (SLaNSRV-3)
	<i>Botrytimonavirus sclerotiniae</i>	Sclerotinia sclerotiorum negative-stranded RNA virus 2 (SsNSRV-2) Sclerotinia sclerotiorum negative-stranded RNA virus 2-A (SsNSRV-2-A) Sclerotinia sclerotiorum negative-stranded RNA virus 4 (SsNSRV-4) Sclerotinia sclerotiorum negative-stranded RNA virus 4-A (SsNSRV-4-A)
<i>Hubramonavirus</i>	<i>Hubramonavirus hubeiense</i>	Húběi rhabdo-like virus 4 (HbRLV-4)
	<i>Hubramonavirus terrae</i>	H2BulkLitter1223 virus
<i>Lentimonavirus</i>	<i>Lentimonavirus lentinulae</i>	Lentinula edodes negative-strand RNA virus 1 (LeNSRV-1)
<i>Penicillimonavirus</i>	<i>Penicillimonavirus alphapenicillii</i>	Penicillium adametzioides negative-stranded RNA virus 1 (PaNsRV-1)
	<i>Penicillimonavirus alphaplasmoparae</i>	Plasmopara viticola lesion associated mononegaambi virus 1 (PvaMV-1)
	<i>Penicillimonavirus betapenicillii</i>	Penicillium glabrum negative-stranded RNA virus 1 (PgRIV-1)
	<i>Penicillimonavirus betaplasmoparae</i>	Plasmopara viticola lesion associated mononegaambi virus 2 (PvaMV-2) Plasmopara viticola lesion associated mononegaambi virus 4 (PvaMV-4)
	<i>Penicillimonavirus deltaplasmoparae</i>	Plasmopara viticola lesion associated mononegaambi virus 5 (PvaMV-5)
	<i>Penicillimonavirus epsilonplasmoparae</i>	Plasmopara viticola lesion associated mononegaambi virus 6 (PvaMV-6)
	<i>Penicillimonavirus etaplasmoparae</i>	Plasmopara viticola lesion associated mononegaambi virus 9 (PvaMV-9)
	<i>Penicillimonavirus gammaplasmoparae</i>	Plasmopara viticola lesion associated mononegaambi virus 3 (PvaMV-3)
	<i>Penicillimonavirus kilnbarnense</i>	Kiln Barn virus (KBV)
	<i>Penicillimonavirus zetaplasmoparae</i>	Plasmopara viticola lesion associated mononegaambi virus 7 (PvaMV-7)
<i>Plasmopamonavirus</i>	<i>Plasmopamonavirus plasmoparae</i>	Plasmopara viticola lesion associated mononegaambi virus 8 (PvaMV-8)
<i>Phyllomonavirus</i>	<i>Phyllomonavirus gysingense</i>	Gysing virus (GYSV)
	<i>Phyllomonavirus phyllosphaerae</i>	soybean leaf-associated negative-stranded RNA virus 4 (SLaNSRV-4)
<i>Rhizomonavirus</i>	<i>Rhizomonavirus mali</i>	apple virus B (APPV-B)
<i>Sclerotimonavirus</i>	<i>Sclerotimonavirus alphaclarireediae</i>	Sclerotinia homoeocarpa TSA contig 1 (ShTSA-1) Sclerotinia homoeocarpa TSA contig 2 (ShTSA-2)
	<i>Sclerotimonavirus alphaplasmoparae</i>	Plasmopara viticola lesion associated mymonavirus 1 (PvaMV-1)
	<i>Sclerotimonavirus alternariae</i>	Alternaria tenuissima negative-stranded RNA virus 1 (AtNsRV-1)
	<i>Sclerotimonavirus betaclarireediae</i>	Sclerotinia homoeocarpa TSA contig 3 (ShTSA-3)
	<i>Sclerotimonavirus betaplasmoparae</i>	Plasmopara viticola lesion associated mononega virus 2 (PvaMV-2)
	<i>Sclerotimonavirus botrytidis</i>	Botrytis cinerea mymonavirus 1 (BcMyV-1) Sclerotinia sclerotiorum negative-stranded RNA virus 7 (SsNSRV-7)
	<i>Sclerotimonavirus fusarii</i>	Fusarium graminearum negative-stranded RNA virus 1 (FgNSRV-1) soybean leaf-associated negative-stranded RNA virus 1 (SLaNSRV-1)
	<i>Sclerotimonavirus illinoisense</i>	soybean leaf-associated negative-stranded RNA virus 2 (SLaNSRV-2)
	<i>Sclerotimonavirus penicillii</i>	Penicillium cairnsense negative-stranded RNA virus 1 (PcNsRV-1)
	<i>Sclerotimonavirus sclerotiniae</i>	Sclerotinia sclerotiorum negative-stranded RNA virus 1 (SsNSRV-1) Sclerotinia sclerotiorum negative-stranded RNA virus 1-A (SsNSRV-1-A) Sclerotinia sclerotiorum negative-stranded RNA virus 3 (SsNSRV-3) Sclerotinia sclerotiorum negative-stranded RNA virus 3-A (SsNSRV-3-A)
	<i>Sclerotimonavirus terrae</i>	H4BulkLitter234 virus

**Table 3** (continued)

Genus	Species <sup>¶</sup>	Virus (abbreviation) <sup>&amp;</sup>	
Family <i>Nyamiviridae</i>			
<i>Berhavirus</i>	<i>Beihai berhavirus</i>	Běihǎi rhabdo-like virus 4 (BhRLV-4)	
	<i>Echinoderm berhavirus</i>	Běihǎi rhabdo-like virus 5 (BhRLV-5)	
	<i>Sipunculid berhavirus</i>	Běihǎi rhabdo-like virus 3 (BhRLV-3)	
<i>Crustavirus</i>	<i>Beihai crustavirus</i>	Běihǎi rhabdo-like virus 6 (BhRLV-6)	
	<i>Wenling crustavirus</i>	Wēnlíng crustacean virus 12 (WICV-12)	
	<i>Wenzhou crustavirus</i>	Wēnzhōu crab virus 1 (WzCV-1)	
<i>Formivirus</i>	<i>Chalybion formivirus</i>	hymenopteran orino-related virus OKIAV87 (HORV-87)	
	<i>Exsecta formivirus</i>	Formica exsecta virus 4 (FeV-4)	
	<i>Fusca formivirus</i>	Formica fusca virus 1 (FfusV-1)	
	<i>Gorytes formivirus</i>	hymenopteran orino-related virus OKIAV85 (HORV-85)	
<i>Nyavirus</i>	<i>Jacinto nyavirus</i>	San Jacinto virus (SJCv)	
	<i>Midway nyavirus</i>	Midway virus (MIDWV)	
	<i>Nyamanini nyavirus</i>	Nyamanini virus (NYMV)	
	<i>Sierra Nevada nyavirus</i>	Sierra Nevada virus (SNVV)	
<i>Orinovirus</i>	<i>Orinoco orinovirus</i>	Orinoco virus (ONCV)	
<i>Socycivirus</i>	<i>Soybean cyst nematode socycivirus</i>	soybean cyst nematode virus 1 (SbCNV-1)	
<i>Tapwovirus</i>	<i>Tapeworm tapwovirus</i>	Wēnzhōu tapeworm virus 1 (WzTWV-1)	
Family <i>Paramyxoviridae</i>			
Subfamily <i>Avulavirinae</i>			
<i>Metaavulavirus</i>	<i>Avian metaavulavirus 2</i>	avian paramyxovirus 2 (APMV-2)	
	<i>Avian metaavulavirus 5</i>	avian paramyxovirus 5 (APMV-5)	
	<i>Avian metaavulavirus 6</i>	avian paramyxovirus 6 (APMV-6)	
	<i>Avian metaavulavirus 7</i>	avian paramyxovirus 7 (APMV-7)	
	<i>Avian metaavulavirus 8</i>	avian paramyxovirus 8 (APMV-8)	
	<i>Avian metaavulavirus 10</i>	avian paramyxovirus 10 (APMV-10)	
	<i>Avian metaavulavirus 11</i>	avian paramyxovirus 11 (APMV-11)	
	<i>Avian metaavulavirus 14</i>	avian paramyxovirus 14 (APMV-14)	
	<i>Avian metaavulavirus 15</i>	avian paramyxovirus 15 (APMV-15)	
	<i>Avian metaavulavirus 20</i>	avian paramyxovirus 20 (APMV-20)	
	<i>Avian metaavulavirus 22</i>	avian paramyxovirus 22 (APMV-22)	
	<i>Orthoavulavirus</i>	<i>Avian orthoavulavirus 1</i>	avian paramyxovirus 1 (APMV-1) <sup>1</sup>
		<i>Avian orthoavulavirus 9</i>	avian paramyxovirus 9 (APMV-9)
		<i>Avian orthoavulavirus 12</i>	avian paramyxovirus 12 (APMV-12)
<i>Avian orthoavulavirus 13</i>		avian paramyxovirus 13 (APMV-13)	
<i>Avian orthoavulavirus 16</i>		avian paramyxovirus 16 (APMV-16)	
<i>Avian orthoavulavirus 17</i>		Antarctic penguin virus A (APV-A)	
<i>Avian orthoavulavirus 18</i>		Antarctic penguin virus B (APV-B)	
<i>Avian orthoavulavirus 19</i>		Antarctic penguin virus C (APV-C)	
<i>Avian orthoavulavirus 21</i>		avian paramyxovirus 21 (APMV-21)	
<i>Paraavulavirus</i>	<i>Avian paraavulavirus 3</i>	avian paramyxovirus 3 (APMV-3)	
	<i>Avian paraavulavirus 4</i>	avian paramyxovirus 4 (APMV-4)	
Subfamily <i>Metaparamyxovirinae</i>			
<i>Synodovirus</i>	<i>Synodus synodovirus</i>	Wēnlíng triplecross lizardfish paramyxovirus (WTLPV)	
Subfamily <i>Orthoparamyxovirinae</i>			
<i>Aquaparamyxovirus</i>	<i>Oncorhynchus aquaparamyxovirus</i>	Pacific salmon paramyxovirus (PSPV)	
	<i>Salmo aquaparamyxovirus</i>	Atlantic salmon paramyxovirus (AsaPV)	
<i>Ferlavirus</i>	<i>Reptilian ferlavirus</i>	fer-de-lance virus (FDLV)	
<i>Henipavirus</i>	<i>Cedar henipavirus</i>	Cedar virus (CedV)	
	<i>Ghanaian bat henipavirus</i>	Ghana virus (GhV)	
	<i>Hendra henipavirus</i>	Hendra virus (HeV)	
	<i>Mòjiāng henipavirus</i>	Mòjiāng virus (MojV)	
	<i>Nipah henipavirus</i>	Nipah virus (NiV)	

Table 3 (continued)

Genus	Species <sup>¶</sup>	Virus (abbreviation) <sup>&amp;</sup>	
<i>Jeilongvirus</i>	<i>Beilong jeilongvirus</i>	Beilong virus (BeiV)	
	<i>Jun jeilongvirus</i>	J virus (JV)	
	<i>Lophuromys jeilongvirus 1</i>	Mount Mabu Lophuromys virus 1 (MMLV-1)	
	<i>Lophuromys jeilongvirus 2</i>	Mount Mabu Lophuromys virus 2 (MMLV-2)	
	<i>Minioptera jeilongvirus</i>	Shaan virus (ShaV)	
	<i>Myodes jeilongvirus</i>	Pohorje Myodes paramyxovirus 1 (PMPV-1)	
	<i>Tailam jeilongvirus</i>	Tailam virus (TaiV)	
	<i>Morbillivirus</i>	<i>Canine morbillivirus</i>	canine distemper virus (CDV)
<i>Cetacean morbillivirus</i>		cetacean morbillivirus (CeMV)	
<i>Feline morbillivirus</i>		feline morbillivirus (FeMV)	
<i>Measles morbillivirus</i>		measles virus (MeV)	
<i>Phocine morbillivirus</i>		phocine distemper virus (PDV)	
<i>Rinderpest morbillivirus</i>		rinderpest virus (RPV)	
<i>Narmovirus</i>	<i>Small ruminant morbillivirus</i>	peste-des-petits-ruminants virus (PPRV)	
	<i>Mossman narmovirus</i>	Mossman virus (MossV)	
	<i>Myodes narmovirus</i>	bank vole virus 1 (BaV-1)	
	<i>Nariva narmovirus</i>	Nariva virus (NarV)	
<i>Respirovirus</i>	<i>Tupaia narmovirus</i>	Tupaia paramyxovirus (TupV)	
	<i>Bovine respirovirus 3</i>	bovine parainfluenza virus 3 (BPIV-3)	
	<i>Caprine respirovirus 3</i>	caprine parainfluenzavirus 3 (CPIV-3)	
	<i>Human respirovirus 1</i>	human parainfluenza virus 1 (HPIV-1)	
	<i>Human respirovirus 3</i>	human parainfluenza virus 3 (HPIV-3)	
	<i>Murine respirovirus</i>	Sendai virus (SeV)	
<i>Salemvirus</i>	<i>Porcine respirovirus 1</i>	porcine parainfluenza virus 1 (PPIV-1)	
	<i>Squirrel respirovirus</i>	giant squirrel virus (GSqV)	
<i>Salem salenvirus</i>	Salem virus (SalV)		
Subfamily <i>Rubulavirinae</i>			
<i>Orthorubulavirus</i>	<i>Human orthorubulavirus 2</i>	human parainfluenza virus 2 (HPIV-2)	
	<i>Human orthorubulavirus 4</i>	human parainfluenza virus 4a (HPIV-4a)	
		human parainfluenza virus 4b (HPIV-4b)	
	<i>Mammalian orthorubulavirus 5</i>	parainfluenza virus 5 (PIV-5)	
	<i>Mammalian orthorubulavirus 6</i>	Alston virus (AlsV)	
	<i>Mapuera orthorubulavirus</i>	Mapuera virus (MapV)	
	<i>Mumps orthorubulavirus</i>	mumps virus (MuV)	
	<i>Porcine orthorubulavirus</i>	La Piedad Michoacán Mexico virus (LPMV)	
	<i>Simian orthorubulavirus</i>	simian virus 41 (SV-41)	
	<i>Pararubulavirus</i>	<i>Achimota pararubulavirus 1</i>	Achimota virus 1 (AchPV-1)
		<i>Achimota pararubulavirus 2</i>	Achimota virus 2 (AchPV-2)
<i>Hervey pararubulavirus</i>		Hervey virus (HerV)	
<i>Menangle pararubulavirus</i>		Menangle virus (MenPV)	
<i>Sosuga pararubulavirus</i>		Sosuga virus (SOSV)	
<i>Teviot pararubulavirus</i>		Teviot virus (TevPV)	
<i>Tioman pararubulavirus</i>		Tioman virus (TioPV)	
<i>Tuhoko pararubulavirus 1</i>		Tuhoko virus 1 (ThkPV-1)	
<i>Tuhoko pararubulavirus 2</i>	Tuhoko virus 2 (ThkPV-2)		
<i>Tuhoko pararubulavirus 3</i>	Tuhoko virus 3 (ThkPV-3)		
Unassigned (to subfamilies)			
<i>Cynoglossusvirus</i>	<i>Cynoglossus cynoglossusvirus</i>	Wēnlíng tonguesole paramyxovirus (WTSPV)	
<i>Hoplichthysvirus</i>	<i>Hoplichthys hoplichthysvirus</i>	Wēnlíng hoplichthys paramyxovirus (WHPV)	
<i>Scoliodonvirus</i>	<i>Scoliodon scoliodonvirus</i>	Wēnzhōu pacific spadenose shark paramyxovirus (WPSSPV)	
Family <i>Pneumoviridae</i>			
<i>Metapneumovirus</i>	<i>Avian metapneumovirus</i>	avian metapneumovirus (AMPV)	
	<i>Human metapneumovirus</i>	human metapneumovirus (HMPV)	

**Table 3** (continued)

Genus	Species <sup>¶</sup>	Virus (abbreviation) <sup>&amp;</sup>
<i>Orthopneumovirus</i>	<i>Bovine orthopneumovirus</i>	bovine respiratory syncytial virus (BRSV)
	<i>Human orthopneumovirus</i>	human respiratory syncytial virus (HRSV)
	<i>Murine orthopneumovirus</i>	murine pneumonia virus (MPV)
Family <i>Rhabdoviridae</i>		
Subfamily <i>Alpharhabdovirinae</i>		
<i>Almendravirus</i>	<i>Arboretum almdravivirus</i>	Arboretum virus (ABTV)
	<i>Balsa almdravivirus</i>	Balsa virus (BALV)
	<i>Coot Bay almdravivirus</i>	Coot Bay virus (CBV)
	<i>Menghai almdravivirus</i>	Menghai virus (MRV)
	<i>Puerto Almendras almdravivirus</i>	Puerto Almendras virus (PTAMV)
	<i>Rio Chico almdravivirus</i>	Rio Chico virus (RCHV)
<i>Alphanemhavirus</i>	<i>Xingshan alphanemhavirus</i>	Xingshan nematode virus 4 (XsNV-4)
	<i>Xinzhou alphanemhavirus</i>	Xinzhou nematode virus 4 (XzNV-4)
<i>Alphapaprhavirus</i>	<i>Hubei alphapaprhavirus</i>	Hubei lepidoptera virus 2 (HbLV-2)
	<i>Pararge alphapaprhavirus</i>	Pararge aegeria rhabdovirus (PAeRV)
<i>Alpharicinrhavirus</i>	<i>Blanchseco alpharicinrhavirus</i>	Blanchseco virus (BCOV)
	<i>Bole alpharicinrhavirus</i>	Bole tick virus 2 (BITV-2)
	<i>Wuhan alpharicinrhavirus</i>	Wuhan tick virus 1 (WhTV-1)
<i>Arurhavirus</i>	<i>Aruac arurhavirus</i>	Aruac virus (ARUV)
	<i>Inhangapi arurhavirus</i>	Inhangapi virus (INHV)
	<i>Santabarbara arurhavirus</i>	Santa Barbara virus (SBAV)
	<i>Xiburema arurhavirus</i>	Xiburema virus (XIBV)
<i>Barhavirus</i>	<i>Bahia barhavirus</i>	Bahia Grande virus (BGV)
		Harlingen virus (HARV)
	<i>Muir barhavirus</i>	Muir Springs virus (MSV)
<i>Calighravirus</i>	<i>Caligus calighravirus</i>	Caligus rogercresseyi rhabdovirus (CRogRV)
	<i>Lepeophtheirus calighravirus</i>	Lepeophtheirus salmonis rhabdovirus 127 (LSalRV-127)
	<i>Salmonlouse calighravirus</i>	Lepeophtheirus salmonis rhabdovirus 9 (LSalRV-9)
<i>Curiovirus</i>	<i>Curionopolis curiovirus</i>	Curionopolis virus (CURV)
	<i>Irii curiovirus</i>	Irii virus (IRIRV)
	<i>Itacaiunas curiovirus</i>	Itacaiunas virus (ITAV)
	<i>Rochambeau curiovirus</i>	Rochambeau virus (RBUV)
<i>Ephemerovirus</i>	<i>Adelaide River ephemerovirus</i>	Adelaide River virus (ARV)
	<i>Berrimah ephemerovirus</i>	Berrimah virus (BRMV)
	<i>Bovine fever ephemerovirus</i>	bovine ephemeral fever virus (BEFV)
	<i>Hayes ephemerovirus</i>	Hayes Yard virus (HYV)
	<i>Kent ephemerovirus</i>	New Kent County virus (NKCV)
	<i>Kimberley ephemerovirus</i>	Kimberley virus (KIMV)
		Malakal virus (MALV)
	<i>Koolpinyah ephemerovirus</i>	Koolpinyah virus (KOOLV)
	<i>Kotonkan ephemerovirus</i>	kotonkan virus (KOTV)
	<i>Obodhiang ephemerovirus</i>	Obodhiang virus (OBOV)
	<i>Puchong ephemerovirus</i>	Puchong virus (PUCV)
	<i>Yata ephemerovirus</i>	Yata virus (YATV)
	<i>Hapavirus</i>	<i>Flanders hapavirus</i>
<i>Gray Lodge hapavirus</i>		Gray Lodge virus (GLOV)
<i>Hart Park hapavirus</i>		Hart Park virus (HPV)
<i>Holmes hapavirus</i>		Holmes Jungle virus (HOJV)
<i>Joinjakaka hapavirus</i>		Joinjakaka virus (JOIV)
<i>Kamese hapavirus</i>		Kamese virus (KAMV)
<i>La Joya hapavirus</i>		La Joya virus (LJV)
<i>Landjia hapavirus</i>		Landjia virus (LANV = LJAV)
<i>Manitoba hapavirus</i>		Manitoba virus (MANV = MNTBV)
<i>Marco hapavirus</i>		Marco virus (MCOV)
<i>Mosqueiro hapavirus</i>	Mosqueiro virus (MQOV)	

Table 3 (continued)

Genus	Species <sup>¶</sup>	Virus (abbreviation) <sup>&amp;</sup>
<i>Ledantevirus</i>	<i>Mossuril hapavirus</i>	Mossuril virus (MOSV)
	<i>Ngaining hapavirus</i>	Ngaining virus (NGAV)
	<i>Ord River hapavirus</i>	Ord River virus (ORV)
	<i>Parry Creek hapavirus</i>	Parry Creek virus (PCV)
	<i>Wongabel hapavirus</i>	Wongabel virus (WONV)
	<i>Barur ledantevirus</i>	Barur virus (BARV)
	<i>Bughendera ledantevirus</i>	Bughendera virus (BUGV)
	<i>Fikirini ledantevirus</i>	Fikirini virus (FKRV)
	<i>Fukuoka ledantevirus</i>	Fukuoka virus (FUKV)
	<i>Kanyawara ledantevirus</i>	Kanyawara virus (KYAV)
	<i>Kern Canyon ledantevirus</i>	Kern Canyon virus (KCV)
	<i>Keuraliba ledantevirus</i>	Keuraliba virus (KEUV)
	<i>Kolente ledantevirus</i>	Kolente virus (KOLEV)
	<i>Kumasi ledantevirus</i>	Kumasi rhabdovirus (KRV)
	<i>Le Dantec ledantevirus</i>	Le Dantec virus (LDV)
	<i>Mount Elgon bat ledantevirus</i>	Mount Elgon bat virus (MEBV)
	<i>Nishimuro ledantevirus</i>	Nishimuro virus (NISV)
	<i>Nkolbisson ledantevirus</i>	Nkolbisson virus (NKOV)
	<i>Oita ledantevirus</i>	Oita virus (OITAV)
	<i>Vaprio ledantevirus</i>	Vaprio virus (VAPV)
<i>Lostrhavirus</i>	<i>Wuhan ledantevirus</i>	Wuhan louse fly virus 5 (WLFV-5)
	<i>Yongjia ledantevirus</i>	Yongjia tick virus 2 (YTV-2)
	<i>Hyalomma lostrhavirus</i>	Xinjiang tick rhabdovirus (XjTRV)
<i>Lyssavirus</i>	<i>Lonestar lostrhavirus</i>	lone star tick rhabdovirus (LITRV)
	<i>Aravan lyssavirus</i>	Aravan virus (ARAV)
<i>Lyssavirus</i>	<i>Australian bat lyssavirus</i>	Australian bat lyssavirus (ABLV)
	<i>Bokeloh bat lyssavirus</i>	Bokeloh bat lyssavirus (BBLV)
	<i>Duvenhage lyssavirus</i>	Duvenhage virus (DUVV)
	<i>European bat 1 lyssavirus</i>	European bat lyssavirus 1 (EBLV-1)
	<i>European bat 2 lyssavirus</i>	European bat lyssavirus 2 (EBLV-2)
	<i>Gannoruwa bat lyssavirus</i>	Gannoruwa bat lyssavirus (GBLV)
	<i>Ikoma lyssavirus</i>	Ikoma lyssavirus (IKOV)
	<i>Irkut lyssavirus</i>	Irkut virus (IRKV)
	<i>Khujand lyssavirus</i>	Khujand virus (KHUV)
	<i>Lagos bat lyssavirus</i>	Lagos bat virus (LBV)
	<i>Lleida bat lyssavirus</i>	Lleida bat lyssavirus (LLEBV)
	<i>Mokola lyssavirus</i>	Mokola virus (MOKV)
	<i>Rabies lyssavirus</i>	rabies virus (RABV)
	<i>Shimoni bat lyssavirus</i>	Shimoni bat virus (SHIBV)
	<i>Taiwan bat lyssavirus</i>	Taiwan bat lyssavirus (TWBLV)
	<i>West Caucasian bat lyssavirus</i>	West Caucasian bat virus (WCBV)
	<i>Merhavirus</i>	<i>Merida merhavirus</i>
<i>Tritaeiorhynchus merhavirus</i>		Culex tritaeiorhynchus rhabdovirus (CTRV)
<i>Moussravirus</i>		Moussa virus (MOUV)
<i>Ohlshavirus</i>	<i>Angeles ohlshavirus</i>	Culex rhabdo-like virus Los Angeles (CRLVLA)
	<i>Culex ohlsharhavirus</i>	Culex rhabdo-like virus (CRLV)
	<i>Lobeira ohlshavirus</i>	Lobeira virus (LOBV)
	<i>Northcreek ohlshavirus</i>	North Creek virus (NORCV)
	<i>Ohlsdorf ohlshavirus</i>	Ohlsdorf virus (OHLDV)
	<i>Pseudovishnui ohlshavirus</i>	Culex pseudovishnui rhabdo-like virus (CpRLV)
	<i>Riverside ohlshavirus</i>	Riverside virus (RISV)
	<i>Tongilchon ohlshavirus</i>	Tongilchon virus 1 (TCHV-1)
<i>Perhabdovirus</i>	<i>Anguillid perhabdovirus</i>	eel virus European X (EVEX)
	<i>Perch perhabdovirus</i>	perch rhabdovirus (PRV)
	<i>Sea trout perhabdovirus</i>	lake trout rhabdovirus (LTRV)

Table 3 (continued)

Genus	Species <sup>¶</sup>	Virus (abbreviation) <sup>&amp;</sup>
<i>Sawgrhavirus</i>	<i>Connecticut sawgrhavirus</i>	Connecticut virus (CNTV)
	<i>Island sawgrhavirus</i>	Long Island tick rhabdovirus (LITRV)
	<i>Minto sawgrhavirus</i>	New Minto virus (NMV)
	<i>Sawgrass sawgrhavirus</i>	Sawgrass virus (SAWV)
<i>Sigmavirus</i>	<i>Capitata sigmavirus</i>	Ceratitis capitata sigmavirus (CCapSV)
	<i>Domestica sigmavirus</i>	Wuhan fly virus 2 (WhFV-2)
	<i>Drosophila affinis sigmavirus</i>	Drosophila affinis sigmavirus (DAffSV)
	<i>Drosophila ananassae sigmavirus</i>	Drosophila ananassae sigmavirus (DAnaSV)
	<i>Drosophila immigrans sigmavirus</i>	Drosophila immigrans sigmavirus (DImmSV)
	<i>Drosophila melanogaster sigmavirus</i>	Drosophila melanogaster sigmavirus (DMelSV)
	<i>Drosophila obscura sigmavirus</i>	Drosophila obscura sigmavirus (DObsSV)
	<i>Drosophila tristis sigmavirus</i>	Drosophila tristis sigmavirus (DTrisSV)
	<i>Hippoboscid sigmavirus</i>	Wuhan louse fly virus 9 (WhLFV-9)
	<i>Hubei sigmavirus</i>	Hubei diptera virus 9 (HbDV-9)
	<i>Lousefly sigmavirus</i>	Wuhan louse fly virus 10 (WhLFV-10)
	<i>Muscina stabulans sigmavirus</i>	Muscina stabulans sigmavirus (MStaSV)
	<i>Myga sigmavirus</i>	Hubei diptera virus 10 (HbDV-10)
	<i>Shayang sigmavirus</i>	Shayang fly virus 2 (SyFV-1)
	<i>Sturtevanti sigmavirus</i>	Drosophila sturtevanti sigmavirus (DStuSV)
	<i>Wuhan sigmavirus</i>	Wuhan house fly virus 1 (WhHFV-1)
<i>Ying sigmavirus</i>	Hubei dimarhabdovirus 1 (HbDRV-1)	
<i>Sprivirus</i>	<i>Carp sprivirus</i>	spring viremia of carp virus (SVCV)
	<i>Pike fry sprivirus</i>	grass carp rhabdovirus (GrCRV)
		pike fry rhabdovirus (PFRV)
<i>Sripuvirus</i>	<i>Almpiwar sripuvirus</i>	tench rhabdovirus (TenRV)
	<i>Chaco sripuvirus</i>	Almpiwar virus (ALMV)
	<i>Charleville sripuvirus</i>	Chaco virus (CHOV)
	<i>Cuiaba sripuvirus</i>	Charleville virus (CHVV)
	<i>Hainan sripuvirus</i>	Cuiaba virus (CUIV)
	<i>Niakha sripuvirus</i>	Hainan black-spectacled toad rhabdovirus (HnBSTRV)
	<i>Sena Madureira sripuvirus</i>	Niakha virus (NIAV)
	<i>Sripur sripuvirus</i>	Sena Madureira virus (SMV)
<i>Sunrhavirus</i>	<i>Dillard sunrhavirus</i>	Sripur virus (SRIV)
	<i>Garba sunrhavirus</i>	Dillard's Draw virus (DDRV)
	<i>Harrison sunrhavirus</i>	Garba virus (GARV)
	<i>Kwatta sunrhavirus</i>	Harrison Dam virus (HARDV)
	<i>Oakvale sunrhavirus</i>	Kwatta virus (KwAV)
	<i>Sunguru sunrhavirus</i>	Oak Vale virus (OVV)
	<i>Walkabout sunrhavirus</i>	Sunguru virus (SUNV)
		Walkabout Creek virus (WACV)
<i>Tibrovirus</i>	<i>Bas Congo tibrovirus</i>	Bas-Congo virus (BASV)
	<i>Beatrice Hill tibrovirus</i>	Beatrice Hill virus (BHV)
	<i>Coastal Plains tibrovirus</i>	Coastal Plains virus (CPV)
	<i>Ekpoma 1 tibrovirus</i>	Ekpoma virus 1 (EKV-1)
	<i>Ekpoma 2 tibrovirus</i>	Ekpoma virus 2 (EKV-2)
	<i>Sweetwater Branch tibrovirus</i>	Sweetwater Branch virus (SWBV)
	<i>Tibrogargan tibrovirus</i>	Bivens Arm virus (BAV)
		Tibrogargan virus (TIBV)
<i>Tupavirus</i>	<i>Durham tupavirus</i>	Durham virus (DURV)
	<i>Klamath tupavirus</i>	Klamath virus (KLAV)
	<i>Tupaia tupavirus</i>	tupaia rhabdovirus (TUPV)
<i>Vesiculovirus</i>	<i>Alagoas vesiculovirus</i>	vesicular stomatitis Alagoas virus (VSAV)
	<i>Carajas vesiculovirus</i>	Carajás virus (CJSV)

Table 3 (continued)

Genus	Species <sup>¶</sup>	Virus (abbreviation) <sup>&amp;</sup>
	<i>Chandipura vesiculovirus</i>	Chandipura virus (CHPV)
	<i>Cocal vesiculovirus</i>	Cocal virus (COCV)
	<i>Eptesicus vesiculovirus</i>	American bat vesiculovirus (ABVV)
	<i>Indiana vesiculovirus</i>	vesicular stomatitis Indiana virus (VSIV)
	<i>Isfahan vesiculovirus</i>	Isfahan virus (ISFV)
	<i>Jurona vesiculovirus</i>	Jurona virus (JURV)
	<i>Malpais Spring vesiculovirus</i>	Malpais Spring virus (MSPV)
	<i>Maraba vesiculovirus</i>	Maraba virus (MARAV)
	<i>Morreton vesiculovirus</i>	Morreton virus (MORV)
	<i>New Jersey vesiculovirus</i>	vesicular stomatitis New Jersey virus (VSNJV)
	<i>Perinet vesiculovirus</i>	Perinet virus (PERV)
	<i>Piry vesiculovirus</i>	Piry virus (PIRYV)
	<i>Radi vesiculovirus</i>	Radi virus (RADV)
	<i>Rhinolophus vesiculovirus</i>	Jinghong bat virus (JhBV)
	<i>Yug Bogdanovac vesiculovirus</i>	Yug Bogdanovac virus (YBV)
<i>Zarhavirus</i>	<i>Zahedan zarhavirus</i>	Zahedan rhabdovirus (ZARV)
Subfamily <i>Betarhabdovirinae</i>		
<i>Alphanucleorhabdovirus</i>	<i>Constricta yellow dwarf alphanucleorhabdovirus</i>	constricta yellow dwarf virus (CYDV)
	<i>Eggplant mottled dwarf alphanucleorhabdovirus</i>	eggplant mottled dwarf virus (EMDV)
	<i>Maize Iranian mosaic alphanucleorhabdovirus</i>	maize Iranian mosaic virus (MIMV)
	<i>Maize mosaic alphanucleorhabdovirus</i>	maize mosaic virus (MMV)
	<i>Morogoro maize-associated alphanucleorhabdovirus</i>	Morogoro maize-associated virus (MMAV)
	<i>Peach alphanucleorhabdovirus</i>	peach virus 1 (PeV1)
	<i>Physostegia chlorotic mottle alphanucleorhabdovirus</i>	Physostegia chlorotic mottle virus (PhCMoV)
	<i>Potato yellow dwarf alphanucleorhabdovirus</i>	potato yellow dwarf virus (PYDV)
	<i>Rice yellow stunt alphanucleorhabdovirus</i>	rice yellow stunt virus (RYSV)
		rice transitory yellowing virus (RTYV)
	<i>Taro vein chlorosis alphanucleorhabdovirus</i>	taro vein chlorosis virus (TaVVCV)
	<i>Wheat yellow striate alphanucleorhabdovirus</i>	wheat yellow striate virus (WYSV)
<i>Betanucleorhabdovirus</i>	<i>Alfalfa betanucleorhabdovirus</i>	alfalfa-associated nucleorhabdovirus (AaNv)
	<i>Apple betanucleorhabdovirus</i>	apple rootstock virus A (ApRVA)
	<i>Blackcurrant betanucleorhabdovirus</i>	blackcurrant-associated rhabdovirus (BCaRV)
	<i>Cardamom betanucleorhabdovirus</i>	cardamom vein clearing virus (CdVVCV)
	<i>Datura yellow vein betanucleorhabdovirus</i>	datura yellow vein virus (DYVV)
	<i>Pepper betanucleorhabdovirus</i>	Zhuye pepper nucleorhabdovirus (ZPNRV)
	<i>Sonchus yellow net betanucleorhabdovirus</i>	Sonchus yellow net virus (SYNV)
	<i>Sowthistle yellow vein betanucleorhabdovirus</i>	sowthistle yellow vein virus (SYVV)
	<i>Trefoil betanucleorhabdovirus</i>	birds-foot trefoil-associated virus (BFTV)
<i>Cytorhabdovirus</i>	<i>Alfalfa dwarf cytorhabdovirus</i>	alfalfa dwarf virus (ADV)
	<i>Barley yellow striate mosaic cytorhabdovirus</i>	barley yellow striate mosaic virus (BYSMV)
	<i>Broccoli necrotic yellows cytorhabdovirus</i>	broccoli necrotic yellows virus (BNYV)
	<i>Cabbage cytorhabdovirus</i>	cabbage cytorhabdovirus 1 (CCyV-1)
	<i>Colocasia bobone disease-associated cytorhabdovirus</i>	Colocasia bobone disease-associated virus (CBDaV)
	<i>Festuca leaf streak cytorhabdovirus</i>	Festuca leaf streak virus (FLSV)
	<i>Lettuce necrotic yellows cytorhabdovirus</i>	lettuce necrotic yellows virus (LNYV)
	<i>Lettuce yellow mottle cytorhabdovirus</i>	lettuce yellow mottle virus (LYMoV)
	<i>Maize-associated cytorhabdovirus</i>	maize-associated cytorhabdovirus (MaCV)
	<i>Maize yellow striate cytorhabdovirus</i>	maize yellow striate virus (MYSV)
	<i>Northern cereal mosaic cytorhabdovirus</i>	northern cereal mosaic virus (NCMV)
	<i>Papaya cytorhabdovirus</i>	papaya virus E (PpVE)
	<i>Persimmon cytorhabdovirus</i>	persimmon virus A (PeVA)
	<i>Raspberry vein chlorosis cytorhabdovirus</i>	raspberry vein chlorosis virus (RVCV)

Table 3 (continued)

Genus	Species <sup>¶</sup>	Virus (abbreviation) <sup>&amp;</sup>
	<i>Rice stripe mosaic cytorhabdovirus</i>	rice stripe mosaic virus (RSMV)
	<i>Sonchus cytorhabdovirus 1</i>	Sonchus virus (SonV)
	<i>Strawberry crinkle cytorhabdovirus</i>	strawberry crinkle virus (SCV)
	<i>Strawberry cytorhabdovirus 1</i>	strawberry-associated virus 1 (SaV-1) strawberry virus 1 (StrV-1)
	<i>Trichosanthes cytorhabdovirus</i>	Trichosanthes associated rhabdovirus 1 (TrARV1)
	<i>Trifolium pratense cytorhabdovirus A</i>	Trifolium pratense virus A (TpVA)
	<i>Trifolium pratense cytorhabdovirus B</i>	Trifolium pratense virus B (TpVB)
	<i>Tomato yellow mottle-associated cytorhabdovirus</i>	tomato yellow mottle-associated virus (TYMaV)
	<i>Wheat American striate mosaic cytorhabdovirus</i>	wheat American striate mosaic virus (WASMV)
	<i>Wuhan 4 insect cytorhabdovirus</i>	Wuhan insect virus 4 (WuIV-4)
	<i>Wuhan 5 insect cytorhabdovirus</i>	Wuhan insect virus 5 (WuIV-5)
	<i>Wuhan 6 insect cytorhabdovirus</i>	Wuhan insect virus 6 (WuIV-6)
	<i>Yerba mate chlorosis-associated cytorhabdovirus</i>	yerba mate chlorosis-associated virus (YmCaV)
	<i>Yerba mate cytorhabdovirus</i>	yerba mate virus A (YmVA)
<i>Dichorhavirus</i>	<i>Citrus chlorotic spot dichorhavirus</i>	citrus chlorotic spot virus (CiCSV)
	<i>Citrus leprosis N dichorhavirus</i>	citrus leprosis virus N (CiLV-N)
	<i>Clerodendrum chlorotic spot dichorhavirus</i>	Clerodendrum chlorotic spot virus (CICSV)
	<i>Coffee ringspot dichorhavirus</i>	coffee ringspot virus (CoRSV)
	<i>Orchid fleck dichorhavirus</i>	orchid fleck virus (OFV)
<i>Gammanucleorhabdovirus</i>	<i>Maize fine streak gammanucleorhabdovirus</i>	maize fine streak virus (MFSV)
<i>Varicosavirus</i>	<i>Alopecurus varicosavirus</i>	Alopecurus myosuroides varicosavirus 1 (AMVV-1)
	<i>Lettuce big-vein associated varicosavirus</i>	lettuce big-vein associated virus (LBVaV)
	<i>Trifolium varicosavirus</i>	red clover associated varicosavirus (RCaVV)
Subfamily <i>Gammarhabdovirinae</i>		
<i>Novirhabdovirus</i>	<i>Hirame novirhabdovirus</i>	hirame rhabdovirus (HIRRV = HIRV)
	<i>Piscine novirhabdovirus</i>	viral hemorrhagic septicemia virus (VHSV)
	<i>Salmonid novirhabdovirus</i>	infectious hematopoietic necrosis virus (IHNV)
	<i>Snakehead novirhabdovirus</i>	snakehead rhabdovirus (SHRV)
Unassigned (to subfamilies)		
<i>Alphacrustrhavirus</i>	<i>Wenling alphacrustrhavirus</i>	Wenling crustacean virus 10 (WICV-10)
	<i>Zhejiang alphacrustrhavirus</i>	Wenling crustacean virus 10 (WICV-11)
<i>Alphadrosrhavirus</i>	<i>Hubei alphadrosrhavirus</i>	Wuhan house fly virus 2 (WhHFV-2)
	<i>Shayang alphadrosrhavirus</i>	Shayang fly virus 3 (SyFV-3)
<i>Alphahymrhavirus</i>	<i>Cinereus alphahymrhavirus</i>	hymenopteran rhabdo-related virus 38 (HyRRV-38)
	<i>Hirtum alphahymrhavirus</i>	hymenopteran rhabdo-related virus 109 (HyRRV-109)
	<i>Neglectus alphahymrhavirus</i>	Lasius neglectus virus 2 (LnegV-2)
	<i>Radians alphahymrhavirus</i>	hymenopteran rhabdo-related virus 46 (HyRRV-46)
<i>Betahymrhavirus</i>	<i>Austriaca betahymrhavirus</i>	hymenopteran rhabdo-related virus 23 (HyRRV-23)
	<i>Heterodontonyx betahymrhavirus</i>	hymenopteran rhabdo-related virus 24 (HyRRV-24)
<i>Betanemrhavirus</i>	<i>Hubei betanemrhavirus</i>	Hubei rhabdo-like virus 9 (HbRLV-9)
	<i>Shayang betanemrhavirus</i>	Shayang ascaridia galli virus 2 (SyAGV-2)
<i>Betapaprhavirus</i>	<i>Frugiperda betapaprhavirus</i>	Spodoptera frugiperda rhabdovirus (SfruRV)
	<i>Sylvina betapaprhavirus</i>	lepidopteran rhabdo-related virus 34 (LeRRV-34)
<i>Betaricinrhavirus</i>	<i>Chimay betaricinrhavirus</i>	Chimay rhabdovirus (CRV)
	<i>Scapularis betaricinrhavirus</i>	blacklegged tick rhabdovirus 1 (BLTRV-1)
Family <i>Sunviridae</i>		
<i>Sunshinevirus</i>	<i>Reptile sunshinevirus 1</i>	Sunshine Coast virus (SunCV)
Family <i>Ximoviridae</i>		



**Table 3** (continued)

Genus	Species <sup>¶</sup>	Virus (abbreviation) <sup>&amp;</sup>
<i>Anphevirus</i>	<i>Bolahun anphevirus</i>	Bolahun virus (BLHV) Gambie virus (GAMV)
	<i>Dipteran anphevirus</i>	Húběi diptera virus 11 (HbDV-11)
	<i>Drosophilid anphevirus</i>	Drosophila unispina virus 1 (DuniV-1)
	<i>Odonate anphevirus</i>	Húběi rhabdo-like virus 7 (HbRLV-7)
	<i>Orthopteran anphevirus</i>	Húběi orthoptera virus 5 (HbOV-5)
	<i>Shuangao anphevirus</i>	Shuāngào fly virus 2 (SgFV-2)
	<i>Xincheng anphevirus</i>	Xīnchéng mosquito virus (XcMV)

Note that viruses are real objects that are assigned to concepts that are called taxa. Species, genera, subfamilies, families, and orders are taxa.

<sup>¶</sup>Includes: Newcastle disease virus (NDV)

<sup>¶</sup>Taxon names are always italicized and always begin with a capital letter

<sup>&</sup>Virus names are not italicized and are not capitalized, except if the name or a name component is a proper noun. This column lists the virus names with their correct (lack of) capitalization. Lists of viruses within a given species are provisional at this point and will likely be amended in the near future

**Table 4** ICTV-accepted taxonomy of the order *Muvirales* (*Negarnaviricota*: *Haploviricotina*: *Chunqiuviricetes*) as of March 2021

Genus	Species <sup>¶</sup>	Virus (abbreviation) <sup>&amp;</sup>
Family <i>Qinviridae</i>		
<i>Yingvirus</i>	<i>Beihai yingvirus</i>	Běihǎi sesarmid crab virus 4 (BhSCV-4)
	<i>Charybdis yingvirus</i>	Wēnzhōu qínvirus-like virus 2 (WzQLV-2)
	<i>Hubei yingvirus</i>	Húběi qínvirus-like virus 1 (HbQLV-1)
	<i>Sanxia yingvirus</i>	Sānxiá qínvirus-like virus 1 (SxQLV-1)
	<i>Shahe yingvirus</i>	Shāhé qínvirus-like virus 1 (ShQLV-1)
	<i>Wenzhou yingvirus</i>	Wēnzhōu qínvirus-like virus 1 (WzQLV-1)
	<i>Wuhan yingvirus</i>	Wūhàn insect virus 15 (WhIV-15)
	<i>Xinzhou yingvirus</i>	Xīnzhōu nematode virus 3 (XzNV-3)

Note that viruses are real objects that are assigned to concepts that are called taxa. Species, genera, families, and orders are taxa

<sup>¶</sup>Taxon names are always italicized and always begin with a capital letter

<sup>&</sup>Virus names are not italicized and are not capitalized, except if the name or a name component is a proper noun. This column lists the virus names with their correct (lack of) capitalization

**Table 5** ICTV-accepted taxonomy of the order *Serpentovirales* (*Negarnaviricota*: *Haploviricotina*: *Milneviricetes*) as of March 2021

Genus	Species <sup>¶</sup>	Virus (abbreviation) <sup>&amp;</sup>
Family <i>Aspiviridae</i>		
<i>Ophiovirus</i>	<i>Blueberry mosaic associated ophiovirus</i>	blueberry mosaic associated virus (BIMaV)
	<i>Citrus psorosis ophiovirus</i>	citrus psorosis virus (CPsV)
	<i>Freesia sneak ophiovirus</i>	freesia sneak virus (FreSV)
	<i>Lettuce ring necrosis ophiovirus</i>	lettuce ring necrosis virus (LRNV)
	<i>Mirafiori lettuce big-vein ophiovirus</i>	Mirafiori lettuce big-vein virus (MLBVV)
	<i>Ranunculus white mottle ophiovirus</i>	ranunculus white mottle virus (RWMV)
	<i>Tulip mild mottle mosaic ophiovirus</i>	tulip mild mottle mosaic virus (TMMMV)

Note that viruses are real objects that are assigned to concepts that are called taxa. Species, genera, families, and orders are taxa

<sup>¶</sup>Taxon names are always italicized and always begin with a capital letter

<sup>&</sup>Virus names are not italicized and are not capitalized, except if the name or a name component is a proper noun. This column lists the virus names with their correct (lack of) capitalization

**Table 6** ICTV-accepted taxonomy of the order *Articulavirales* (*Negarnaviricota*: *Polyploviricotina*: *Insthoviricetes*) as of March 2021

Genus	Species <sup>¶</sup>	Virus (abbreviation) <sup>&amp;</sup>
Family <i>Amnoonviridae</i>		
<i>Tilapinevirus</i>	<i>Tilapia tilapinevirus</i>	tilapia lake virus (TiLV)
Family <i>Orthomyxoviridae</i>		
<i>Alphainfluenzavirus</i>	<i>Influenza A virus</i>	influenza A virus (FLUAV)
<i>Betainfluenzavirus</i>	<i>Influenza B virus</i>	influenza B virus (FLUBV)
<i>Deltainfluenzavirus</i>	<i>Influenza D virus</i>	influenza D virus (FLUDV)
<i>Gammainfluenzavirus</i>	<i>Influenza C virus</i>	influenza C virus (FLUCV)
<i>Isavirus</i>	<i>Salmon isavirus</i>	infectious salmon anemia virus (ISAV)
<i>Quaranjavirus</i>	<i>Johnston Atoll quaranjavirus</i>	Johnston Atoll virus (JAV)
	<i>Quaranfil quaranjavirus</i>	Quaranfil virus (QRFV)
<i>Thogotovirus</i>	<i>Dhori thogotovirus</i>	Dhori virus (DHOV)
	<i>Thogoto thogotovirus</i>	Thogoto virus (THOV)

Note that viruses are real objects that are assigned to concepts that are called taxa. Species, genera, families, and orders are taxa

<sup>¶</sup>Taxon names are always italicized and always begin with a capital letter

<sup>&</sup>Virus names are not italicized and are not capitalized, except if the name or a name component is a proper noun. This column lists the virus names with their correct (lack of) capitalization

**Table 7** ICTV-accepted taxonomy of the order *Bunyvirales* (*Negarnaviricota*: *Polyploviricotina*: *Ellioviricetes*) as of March 2020

Genus	Species <sup>¶</sup>	Virus (abbreviation) <sup>&amp;</sup>
Family <i>Arenaviridae</i>		
<i>Antennavirus</i>	<i>Hairy antennavirus</i>	Wënling frogfish arenavirus 2 (WIFAV-2)
	<i>Salmon antennavirus</i>	salmon pescarenavirus 1 (SPAV-1) salmon pescarenavirus 2 (SPAV-2)
<i>Hartmanivirus</i>	<i>Striated antennavirus</i>	Wënling frogfish arenavirus 1 (WIFAV-1)
	<i>Haartman hartmanivirus</i>	Haartman Institute snake virus 1 (HISV-1) Haartman Institute snake virus 2 (HISV-2)
	<i>Heimat hartmanivirus</i>	andere Heimat virus 1 (aHeV-1)
	<i>Muikkunen hartmanivirus</i>	Dante Muikkunen virus 1 (DaMV-1)
	<i>Schoolhouse hartmanivirus</i>	old schoolhouse virus 1 (OScV-1) old schoolhouse virus 2 (OScV-2)
	<i>Setpatvet hartmanivirus</i>	SetPatVet virus 1 (SPVV-1)
	<i>Zurich hartmanivirus</i>	veterinary pathology Zurich virus 1 (VPZV-1) veterinary pathology Zurich virus 2 (VPZV-2)
	<i>Mammarenavirus</i>	<i>Allpahuayo mammarenavirus</i>
<i>Alxa mammarenavirus</i>		Alxa virus (ALXV)
<i>Argentinian mammarenavirus</i>		Junín virus (JUNV)
<i>Bear Canyon mammarenavirus</i>		Bear Canyon virus (BCNV)
<i>Brazilian mammarenavirus</i>		Sabía virus (SBAV)
<i>Cali mammarenavirus</i>		Pichindé virus (PICHV)
<i>Chapare mammarenavirus</i>		Chapare virus (CHAPV)
<i>Chevrier mammarenavirus</i>		Lijiāng virus (LIJV)
<i>Cupixi mammarenavirus</i>		Cupixi virus (CUPXV)
<i>Flexal mammarenavirus</i>		Flexal virus (FLEV)
<i>Gairo mammarenavirus</i>		Gairo virus (GAIV)
<i>Guanarito mammarenavirus</i>		Guanarito virus (GTOV)
<i>Ippy mammarenavirus</i>		Ippy virus (IPPYV)
<i>Kitale mammarenavirus</i>		Kitale virus (KTLV)
<i>Lassa mammarenavirus</i>		Lassa virus (LASV)
<i>Latino mammarenavirus</i>	Latino virus (LATV)	

Table 7 (continued)

Genus	Species <sup>‡</sup>	Virus (abbreviation) <sup>&amp;</sup>
	<i>Loei River mammarenavirus</i>	Loei River virus (LORV)
	<i>Lujo mammarenavirus</i>	Lujo virus (LUJV)
	<i>Luna mammarenavirus</i>	Luli virus (LULV)
		Luna virus (LUAV)
	<i>Lunk mammarenavirus</i>	Lunk virus (LNKV)
	<i>Lymphocytic choriomeningitis mammarenavirus</i>	Dandenong virus (DANV)
		lymphocytic choriomeningitis virus (LCMV)
	<i>Machupo mammarenavirus</i>	Machupo virus (MACV)
	<i>Mariental mammarenavirus</i>	Mariental virus (MRLV)
	<i>Merino Walk mammarenavirus</i>	Merino Walk virus (MRWV)
	<i>Mobala mammarenavirus</i>	mobala virus (MOBV)
	<i>Mopeia mammarenavirus</i>	Mopeia virus (MPOV)
		Morogoro virus (MORV)
	<i>Okahandja mammarenavirus</i>	Okahandja virus (OKAV)
	<i>Oliveros mammarenavirus</i>	Oliveros virus (OLVV)
	<i>Paraguayan mammarenavirus</i>	Paraná virus (PRAV)
	<i>Planalto mammarenavirus</i>	Aporé virus (APOV)
	<i>Pirital mammarenavirus</i>	Pirital virus (PIRV)
	<i>Ryukyu mammarenavirus</i>	Ryukyu virus (RYKV)
	<i>Serra do Navio mammarenavirus</i>	Amapari virus (AMAV)
	<i>Solwezi mammarenavirus</i>	Solwezi virus (SOLV)
	<i>Souris mammarenavirus</i>	souris virus (SOUV)
	<i>Tacaribe mammarenavirus</i>	Tacaribe virus (TCRV)
	<i>Tamiami mammarenavirus</i>	Tamiami virus (TMMV)
	<i>Wenzhou mammarenavirus</i>	Wēnzhōu virus (WENV)
	<i>Whitewater Arroyo mammarenavirus</i>	Big Brushy Tank virus (BBRTV)
		Catarina virus (CTNV)
		Skinner Tank virus (SKTV)
		Tonto Creek virus (TTCV)
		Whitewater Arroyo virus (WWAV)
	<i>Xapuri mammarenavirus</i>	Xapuri virus (XAPV)
<i>Reptarenavirus</i>	<i>California reptarenavirus</i>	CAS virus (CASV)
	<i>Giessen reptarenavirus</i>	University of Giessen virus 1 (UGV-1)
		University of Giessen virus 2 (UGV-2)
		University of Giessen virus 3 (UGV-3)
	<i>Golden reptarenavirus</i>	Golden Gate virus (GOGV)
	<i>Ordinary reptarenavirus</i>	tavallinen suomalainen mies virus 2 (TSMV-2)
	<i>Rotterdam reptarenavirus</i>	ROUT virus (ROUTV)
		University of Helsinki virus 1 (UHV-1)
Family <i>Cruliviridae</i>		
<i>Lincruvirus</i>	<i>Lincruvirus europense</i>	European shore crab virus 1 (EscV-1)
	<i>Lincruvirus sinense</i>	Chinese mitten crab virus 1 (CmcV-1)
	<i>Lincruvirus wenlingense</i>	Wēnling crustacean virus 9 (WICV-9)
Family <i>Fimoviridae</i>		
<i>Emaravirus</i>	<i>Actinidia chlorotic ringspot-associated emaravirus</i>	Actinidia chlorotic ringspot-associated virus (AcCRaV)
	<i>Actinidia emaravirus 2</i>	Actinidia virus 2 (AcV-2)
	<i>Aspen mosaic-associated emaravirus</i>	aspen mosaic-associated virus (AsMaV)
	<i>Blackberry leaf mottle associated emaravirus</i>	blackberry leaf mottle-associated virus (BLMaV)
	<i>Camellia japonica-associated emaravirus 1</i>	Camellia japonica-associated virus 1 (CjaV-1)
	<i>Camellia japonica-associated emaravirus 2</i>	Camellia japonica-associated virus 2 (CjaV-2)
	<i>European mountain ash ringspot-associated emaravirus</i>	European mountain ash ringspot-associated virus (EMARaV)
	<i>Fig mosaic emaravirus</i>	fig mosaic virus (FMV)
	<i>High Plains wheat mosaic emaravirus</i>	High Plains wheat mosaic virus (HPWMoV)
	<i>Jujube yellow mottle-associated emaravirus</i>	jujube yellow mottle-associated virus (JYMaV)
	<i>Lilac chlorotic ringspot-associated virus</i>	lilac chlorotic ringspot-associated virus (LiCRaV)

Table 7 (continued)

Genus	Species <sup>†</sup>	Virus (abbreviation) <sup>‡</sup>
	<i>Palo verde broom emaravirus</i>	palo verde broom virus (PVBV)
	<i>Pear chlorotic leaf spot-associated emaravirus</i>	pear chlorotic leaf spot-associated virus (PCLSaV)
	<i>Perilla mosaic emaravirus</i>	perilla mosaic virus (PerMV)
	<i>Pigeonpea sterility mosaic emaravirus 1</i>	pigeonpea sterility mosaic virus 1 (PPSMV-1)
	<i>Pigeonpea sterility mosaic emaravirus 2</i>	pigeonpea sterility mosaic virus 2 (PPSMV-2)
	<i>Pistacia emaravirus B</i>	pistacia virus B (PiVB)
	<i>Raspberry leaf blotch emaravirus</i>	raspberry leaf blotch virus (RLBV)
	<i>Redbud yellow ringspot-associated emaravirus</i>	redbud yellow ringspot-associated virus (RYRaV)
	<i>Rose rosette emaravirus</i>	rose rosette virus (RRV)
	<i>Ti ringspot-associated emaravirus</i>	ti ringspot-associated virus (TiRSaV)
Family <i>Hantaviridae</i>		
Subfamily <i>Actantavirinae</i>		
<i>Actinivirus</i>	<i>Batfish actinivirus</i>	Wēnlíng minipizza batfish virus (WEMBV)
	<i>Goosefish actinivirus</i>	Wēnlíng yellow goosefish virus (WEYGV)
	<i>Perch actinivirus</i>	Bern perch virus (BRPV)
	<i>Spikefish actinivirus</i>	Wēnlíng red spikefish virus (WERSV)
Subfamily <i>Agantavirinae</i>		
<i>Agnathovirus</i>	<i>Hagfish agnathovirus</i>	Wēnlíng hagfish virus (WEHV)
Subfamily <i>Mammantavirinae</i>		
<i>Loanvirus</i>	<i>Brno loanvirus</i>	Brno virus (BRNV)
	<i>Longquan loanvirus</i>	Lóngquán virus (LQUV)
<i>Mobatvirus</i>	<i>Laibin mobatvirus</i>	Láibín virus (LAIV)
	<i>Lena mobatvirus</i>	Lena virus (LENV)
	<i>Nova mobatvirus</i>	Nova virus (NAV)
	<i>Quezon mobatvirus</i>	Quezon virus (QZNV)
	<i>Xuan Son mobatvirus</i>	Xuān Sōn virus (XSV)
<i>Orthohantavirus</i>	<i>Andes orthohantavirus</i>	Andes virus (ANDV)
		Castelo dos Sonhos virus (CASV)
		Lechiguanas virus (LECV = LECHV)
		Orán virus (ORNV)
	<i>Asama orthohantavirus</i>	Asama virus (ASAV)
	<i>Asikkala orthohantavirus</i>	Asikkala virus (ASIV)
	<i>Bayou orthohantavirus</i>	bayou virus (BAYV)
		Catacamas virus (CATV)
	<i>Black Creek Canal orthohantavirus</i>	Black Creek Canal virus (BCCV)
	<i>Bowe orthohantavirus</i>	Bowé virus (BOWV)
	<i>Bruges orthohantavirus</i>	Bruges virus (BRGV)
	<i>Cano Delgadito orthohantavirus</i>	Caño Delgadito virus (CADV)
	<i>Cao Bang orthohantavirus</i>	Cao Bǎng virus (CBNV)
		Liánghé virus (LHEV)
	<i>Choclo orthohantavirus</i>	Choclo virus (CHOV)
	<i>Dabieshan orthohantavirus</i>	Dàbiéshān virus (DBSV)
	<i>Dobrava-Belgrade orthohantavirus</i>	Dobrava virus (DOBV)
		Kurkino virus (KURV)
		Saaremaa virus (SAAV)
		Sochi virus (SOCV)
	<i>El Moro Canyon orthohantavirus</i>	Carrizal virus (CARV)
		El Moro Canyon virus (ELMCV)
		Huitzilac virus (HUIV)
	<i>Fugong orthohantavirus</i>	Fúgōng virus (FUGV)
	<i>Fusong orthohantavirus</i>	Fūsōng virus (FUSV)
	<i>Hantaan orthohantavirus</i>	Amur virus (AMRV)
		Hantaan virus (HTNV)
		Soochong virus (SOOV)
	<i>Jeju orthohantavirus</i>	Jeju virus (JJUV)

Table 7 (continued)

Genus	Species <sup>†</sup>	Virus (abbreviation) <sup>‡</sup>
	<i>Kenkeme orthohantavirus</i>	Kenkeme virus (KKMV)
	<i>Khabarovsk orthohantavirus</i>	Khabarovsk virus (KHAV)
		Topografov virus (TOPV)
	<i>Laguna Negra orthohantavirus</i>	Laguna Negra virus (LANV)
		Maripa virus (MARV)
		Rio Mamoré virus (RIOMV)
	<i>Luxi orthohantavirus</i>	Lúxī virus (LUXV)
	<i>Maporal orthohantavirus</i>	Maporal virus (MAPV)
	<i>Montano orthohantavirus</i>	Montaño virus (MTNV)
	<i>Necoclí orthohantavirus</i>	Necoclí virus (NECV)
	<i>Oxbow orthohantavirus</i>	Oxbow virus (OXBV)
	<i>Prospect Hill orthohantavirus</i>	Prospect Hill virus (PHV)
	<i>Puumala orthohantavirus</i>	Hokkaido virus (HOKV)
		Muju virus (MUJV)
		Puumala virus (PUUV)
	<i>Robina orthohantavirus</i>	Robina virus (ROBV)
	<i>Rockport orthohantavirus</i>	Rockport virus (RKPV)
	<i>Sangassou orthohantavirus</i>	Sangassou virus (SANGV)
	<i>Seewis orthohantavirus</i>	Seewis virus (SWSV)
	<i>Seoul orthohantavirus</i>	gōu virus (GOUV)
		Seoul virus (SEOV)
	<i>Sin Nombre orthohantavirus</i>	New York virus (NYV)
		Sin Nombre virus (SNV)
	<i>Tatenale orthohantavirus</i>	Tatenale virus (TATV)
	<i>Thailand orthohantavirus</i>	Anjzorobe virus (ANJZV)
		Serang virus (SERV)
		Thailand virus (THAIV)
	<i>Tigray orthohantavirus</i>	Tigray virus (TIGV)
	<i>Tula orthohantavirus</i>	Adler virus (ADLV)
		Tula virus (TULV)
	<i>Yakeshi orthohantavirus</i>	Yákèshí virus (YKSV)
<i>Thottimvirus</i>	<i>Imjin thottimvirus</i>	Imjin virus (MJNV)
	<i>Thottapalayam thottimvirus</i>	Thottapalayam virus (TPMV)
Subfamily <i>Repantavirinae</i>		
<i>Reptillovirus</i>	<i>Gecko reptillovirus</i>	Hainán oriental leaf-toed gecko virus (HOLGV)
Family <i>Leishbuviridae</i>		
<i>Shilevirus</i>	<i>Leptomonas shilevirus</i>	Leptomonas moramango virus (LEPMV)
Family <i>Mypoviridae</i>		
<i>Hubavirus</i>	<i>Myriapod hubavirus</i>	Húběi myriapoda virus 5 (HbMV-5)
Family <i>Nairoviridae</i>		
<i>Norwavirus</i>	<i>Grotenhout norwavirus</i>	Grotenhout virus (GRHV)
<i>Ocetevirus</i>	<i>Blattodean ocetevirus</i>	red goblin roach virus 1 (RGRV-1)
<i>Orthonairovirus</i>	<i>Abu Hammad orthonairovirus</i>	Abū Ḥammād virus (AHV)
	<i>Abu Mina orthonairovirus</i>	Abū Mīnā virus (AMV)
	<i>Artashat orthonairovirus</i>	Artashat virus (ARTSV)
	<i>Avalon orthonairovirus</i>	Avalon virus (AVAV)
	<i>Chim orthonairovirus</i>	Chim virus (CHIMV)
	<i>Bandia orthonairovirus</i>	Bandia virus (BDV)
	<i>Burana orthonairovirus</i>	Burana virus (BURV)
	<i>Congoid orthonairovirus</i>	Aìgāi virus (AIGV)
	<i>Crimean-Congo hemorrhagic fever orthonairovirus</i>	Crimean-Congo hemorrhagic fever virus (CCHFV)
	<i>Dera Ghazi Khan orthonairovirus</i>	Dera Ghazi Khan virus (DGKV)
	<i>Dugbe orthonairovirus</i>	Dugbe virus (DUGV)
	<i>Erve orthonairovirus</i>	Erve virus (ERVEV)
	<i>Esterio Real orthonairovirus</i>	Esterio Real virus (ERV)

Table 7 (continued)

Genus	Species <sup>†</sup>	Virus (abbreviation) <sup>‡</sup>
	<i>Gossas orthonairovirus</i>	Gossas virus (GOSV)
	<i>Hazara orthonairovirus</i>	Hazara virus (HAZV)
	<i>Huangpi orthonairovirus</i>	Huángpí tick virus 1 (HpTV-1)
	<i>Hughes orthonairovirus</i>	Caspiy virus (CASV)
		Farallon virus (FARV)
		Great Saltee virus (GRSV)
		Hughes virus (HUGV)
		Raza virus (RAZAV)
	<i>Issyk-kul orthonairovirus</i>	Issyk-kul virus (ISKV)
	<i>Kasokero orthonairovirus</i>	Kasokero virus (KASV = KASOV)
	<i>Keterah orthonairovirus</i>	Keterah virus (KTRV)
		Uzun-Agach virus (UZAV)
	<i>Kupe orthonairovirus</i>	kupe virus (KUPEV)
	<i>Leopards Hill orthonairovirus</i>	Leopards Hill virus (LPHV)
	<i>Meram orthonairovirus</i>	Meram virus (MEMV)
	<i>Nairobi sheep disease orthonairovirus</i>	Nairobi sheep disease virus (NSDV)
	<i>Pacific Coast orthonairovirus</i>	Pacific Coast tick nairovirus (PCTNV)
	<i>Punta orthonairovirus</i>	Punta Salinas virus (PSV)
	<i>Qalyub orthonairovirus</i>	Geran virus (GERV)
		Qalyub virus (QYBV)
	<i>Sakhalin orthonairovirus</i>	Sakhalin virus (SAKV)
		Tillamook virus (TILLV)
	<i>Sapphire orthonairovirus</i>	Sapphire II virus (SAPV)
	<i>Scot orthonairovirus</i>	Clo Mor virus (CMV = CLMV)
	<i>Soldado orthonairovirus</i>	Soldado virus (SOLV)
	<i>Tacheng orthonairovirus</i>	Tāchéng tick virus 1 (TcTV-1)
	<i>Taggart orthonairovirus</i>	Taggart virus (TAGV)
	<i>Tamdy orthonairovirus</i>	Tamdy virus (TAMV)
	<i>Thiafóra orthonairovirus</i>	Thiafóra virus (TFAV)
	<i>Tofta orthonairovirus</i>	tofta virus (TFLV)
	<i>Tunis orthonairovirus</i>	Tunis virus (TUNV)
	<i>Vinegar Hill orthonairovirus</i>	Vinegar Hill virus (VINHV)
	<i>Wenzhou orthonairovirus</i>	Wēnzhōu tick virus (WzTV)
	<i>Yogue orthonairovirus</i>	Yogue virus (YOGV)
	<i>Zirqa orthonairovirus</i>	Zirqa virus (ZIRV)
<i>Sabavirus</i>	<i>South Bay sabavirus</i>	South Bay virus (SBV)
<i>Shaspivirus</i>	<i>Spider shaspivirus</i>	Shāyáng spider virus 1 (SySV-1)
<i>Striwavivirus</i>	<i>Strider striwavivirus</i>	Sānxíá water strider virus 1 (SxWSV-1)
<i>Xinspivirus</i>	<i>Xinzhou xinspivirus</i>	Xīnzhōu spider virus (XSV)
Family <i>Peribunyaviridae</i>		
<i>Herbevirus</i>	<i>Herbert herbevirus</i>	Herbert virus (HEBV)
	<i>Kibale herbevirus</i>	Kibale virus (KIBV)
	<i>Tai herbevirus</i>	Tai virus (TAIV)
<i>Orthobunyavirus</i>	<i>Abras orthobunyavirus</i>	Abras virus (ABRV)
	<i>Acara orthobunyavirus</i>	Acará virus (ACAV)
		Moriche virus (MORV)
	<i>Aino orthobunyavirus</i>	Aino virus (AINOV)
	<i>Akabane orthobunyavirus</i>	Akabane virus (AKAV)
		Tinaroo virus (TINV)
		Yaba-7 virus (Y7V)
	<i>Alajuela orthobunyavirus</i>	Alajuela virus (ALJV)
		San Juan virus (SJV)
	<i>Anadyr orthobunyavirus</i>	Anadyr virus (ANADV)
	<i>Ananindeua orthobunyavirus</i>	Ananindeua virus (ANUV)
	<i>Anhembi orthobunyavirus</i>	Anhembi virus (AMBV)

Table 7 (continued)

Genus	Species <sup>†</sup>	Virus (abbreviation) <sup>‡</sup>
	<i>Anopheles A orthobunyavirus</i>	Anopheles A virus (ANAV) Arumateua virus (ARTV = ARMTV) Caraipé virus (CPEV = CRPV) Las Maloyas virus (LMV) Lukuni virus (LUKV) Trombetas virus (TRMV) Tucuruí virus (TUCV = TUCRV)
	<i>Anopheles B orthobunyavirus</i>	Anopheles B virus (ANBV) Boracéia virus (BORV)
	<i>Apeu orthobunyavirus</i>	Apeú virus (APEUV)
	<i>Bakau orthobunyavirus</i>	Bakau virus (BAKV) Ketapang virus (KETV) Nola virus (NOLAV) Tanjong Rabok virus (TRV) Telok Forest virus (TFV)
	<i>Batai orthobunyavirus</i>	Batai virus (BATV)
	<i>Batama orthobunyavirus</i>	Batama virus (BMAV)
	<i>Bellavista orthobunyavirus</i>	Bellavista virus (BELLV)
	<i>Benevides orthobunyavirus</i>	Benevides virus (BVSV = BENV)
	<i>Bertioga orthobunyavirus</i>	Bertioga virus (BERV) Cananéia virus (CNAV) Guaratuba virus (GTBV) Itimirim virus (ITIV) Mirim virus (MIRV)
	<i>Bimiti orthobunyavirus</i>	bimiti virus (BIMV)
	<i>Birao orthobunyavirus</i>	Birao virus (BIRV)
	<i>Botambi orthobunyavirus</i>	Botambi virus (BOTV)
	<i>Bozo orthobunyavirus</i>	Bozo virus (BOZOV)
	<i>Brazoran orthobunyavirus</i>	brazoran virus (BRAZV)
	<i>Bruconha orthobunyavirus</i>	Bruconha virus (BRUV)
	<i>Buffalo Creek orthobunyavirus</i>	Buffalo Creek virus (BUCV)
	<i>Bunyamwera orthobunyavirus</i>	Bunyamwera virus (BUNV) Germiston virus (GERV) Lokern virus (LOKV) Mboké virus (MBOV) Ngari virus (NRIV) Northway virus (NORV) Santa Rosa virus (SARV) Shokwe virus (SHOV) Stanfield virus (STAV) Xingu virus (XINV)
	<i>Bushbush orthobunyavirus</i>	Benfica virus (BENV = BNFV) Bushbush virus (BSBV) Juan Díaz virus (JDV)
	<i>Buttonwillow orthobunyavirus</i>	Buttonwillow virus (BUTV)
	<i>Bwamba orthobunyavirus</i>	Bwamba virus (BWAV) Pongola virus (PGAV)
	<i>Cache Valley orthobunyavirus</i>	Cache Valley virus (CVV) Cholul virus (CHLV) Tlacotalpan virus (TLAV)
	<i>Cachoeira Porteira orthobunyavirus</i>	Cachoeira Porteira virus (CPOV)
	<i>California encephalitis orthobunyavirus</i>	California encephalitis virus (CEV) Morro Bay virus (MBV)
	<i>Capim orthobunyavirus</i>	Capim virus (CAPV)
	<i>Caraparu orthobunyavirus</i>	Caraparú virus (CARV)

Table 7 (continued)

Genus	Species <sup>‡</sup>	Virus (abbreviation) <sup>&amp;</sup>
		El Huayo virus (EHUV)
		Itaya virus (ITYV)
		Ossa virus (OSSAV)
		Vinces virus (VINV)
	<i>Cat Que orthobunyavirus</i>	Cát Qué virus (CQV)
		Oya virus (OYAV)
	<i>Catu orthobunyavirus</i>	Catú virus (CATUV)
	<i>Enseada orthobunyavirus</i>	Enseada virus (ENSV)
	<i>Faceys paddock orthobunyavirus</i>	Facey's paddock virus (FPV)
	<i>Fort Sherman orthobunyavirus</i>	Fort Sherman virus (FSV)
	<i>Gamboa orthobunyavirus</i>	Brus Laguna virus (BLAV)
		Calchaquí virus (CQIV)
		Gamboa virus (GAMV)
		Pueblo Viejo virus (PVV)
		Soberanía virus (SOBV)
	<i>Gan Gan orthobunyavirus</i>	Gan Gan virus (GGV)
	<i>Guajara orthobunyavirus</i>	Guajará virus (GJAV)
	<i>Guama orthobunyavirus</i>	Guamá virus (GMAV)
	<i>Guaroa orthobunyavirus</i>	Guaroa virus (GROV)
	<i>Iaco orthobunyavirus</i>	Iaco virus (IACOV)
	<i>Ilesha orthobunyavirus</i>	Ilesha virus (ILEV)
	<i>Ingwavuma orthobunyavirus</i>	Ingwavuma virus (INGV)
	<i>Jamestown Canyon orthobunyavirus</i>	Inkoo virus (INKV)
		Jamestown Canyon virus (JCV)
		Jerry Slough virus (JSV)
		South River virus (SORV)
	<i>Jatobal orthobunyavirus</i>	Jatobal virus (JATV)
	<i>Kaeng Khoi orthobunyavirus</i>	Kaeng Khoi virus (KKV)
	<i>Kairi orthobunyavirus</i>	kairi virus (KRIV)
	<i>Keystone orthobunyavirus</i>	Keystone virus (KEYV)
	<i>Koongol orthobunyavirus</i>	koongol virus (KOOV)
		wongal virus (WONV)
	<i>La Crosse orthobunyavirus</i>	La Crosse virus (LACV)
	<i>Leanyer orthobunyavirus</i>	Leanyer virus (LEAV)
	<i>Lumbo orthobunyavirus</i>	Lumbo virus (LUMV)
	<i>Macauã orthobunyavirus</i>	Macauã virus (MCAV)
	<i>Madrid orthobunyavirus</i>	Madrid virus (MADV)
	<i>Maguari orthobunyavirus</i>	Maguari virus (MAGV)
		Playas virus (PLAV)
	<i>Mahogany Hammock orthobunyavirus</i>	Mahogany Hammock virus (MHV)
	<i>Main Drain orthobunyavirus</i>	Main Drain virus (MDV)
	<i>Manzanilla orthobunyavirus</i>	Manzanilla virus (MANV)
		Inini virus (INIV)
	<i>Mapputta orthobunyavirus</i>	Mapputta virus (MAPV)
	<i>Maprik orthobunyavirus</i>	Maprik virus (MPKV)
	<i>Marituba orthobunyavirus</i>	Gumbo Limbo virus (GLV)
		Marituba virus (MTBV)
		Murutucú virus (MURV)
		Nepuyo virus (NEPV)
		Restan virus (RESV)
		Zungarococha virus (ZUNV)
	<i>Matruh orthobunyavirus</i>	Matruh virus (MTRV)
	<i>Melao orthobunyavirus</i>	Melao virus (MELV)
	<i>Moju orthobunyavirus</i>	Moju virus (MOJUV)
	<i>Mermet orthobunyavirus</i>	Mermet virus (MERV)



Table 7 (continued)

Genus	Species <sup>‡</sup>	Virus (abbreviation) <sup>Ⓢ</sup>
	<i>Minatitlan orthobunyavirus</i>	Minatitlán virus (MNTV) Palestina virus (PLSV)
	<i>MPoko orthobunyavirus</i>	M'Poko virus (MPOV) Yaba-1 virus (Y1V)
	<i>Nyando orthobunyavirus</i>	Eretmapodites virus (ERETV) Mojuí dos Campos virus (MDCV) Nyando virus (NDV)
	<i>Olifantsvlei orthobunyavirus</i>	Bobia virus (BIAV) Dabakala virus (DABV) Olifantsvlei virus (OLIV) Oubi virus (OUBIV)
	<i>Oriboca orthobunyavirus</i>	Itaqui virus (ITQV) Oriboca virus (ORIV)
	<i>Oropouche orthobunyavirus</i>	Iquitos virus (IQTV) Madre de Dios virus (MDDV) Oropouche virus (OROV) Perdões virus (PDEV) Pintupo virus (PINTV)
	<i>Oyo orthobunyavirus</i>	Oyo virus (OYOV)
	<i>Patois orthobunyavirus</i>	Babahoya virus (BABV) Pahayokee virus (PAHV) Patois virus (PATV)
	<i>Peaton orthobunyavirus</i>	peaton virus (PEAV)
	<i>Potosi orthobunyavirus</i>	Potosi virus (POTV)
	<i>Sabo orthobunyavirus</i>	Sabo virus (SABOV)
	<i>San Angelo orthobunyavirus</i>	San Angelo virus (SAV)
	<i>Sango orthobunyavirus</i>	Sango virus (SANV)
	<i>Schmallenberg orthobunyavirus</i>	Douglas virus (DOUV) Sathuperi virus (SATV) Schmallenberg virus (SBV) Shamonda virus (SHAV)
	<i>Sedlec orthobunyavirus</i>	Sedlec virus (SEDEV)
	<i>Serra do Navio orthobunyavirus</i>	Serra do Navio virus (SDNV)
	<i>Shark River orthobunyavirus</i>	Shark River virus (SRV)
	<i>Shuni orthobunyavirus</i>	Kaikalur virus (KAIV) Shuni virus (SHUV)
	<i>Simbu orthobunyavirus</i>	Para virus (PARAV) Simbu virus (SIMV)
	<i>Snowshoe hare orthobunyavirus</i>	Khatanga virus (KHATV) snowshoe hare virus (SSHV)
	<i>Sororoca orthobunyavirus</i>	Sororoca virus (SORV)
	<i>Tacaiuma orthobunyavirus</i>	CoAr 1071 virus (CA1071V) CoAr 3627 virus (CA3626V) Tacaiuma virus (TCMV) Virgin River virus (VRV)
	<i>Tahyna orthobunyavirus</i>	Ťahyňa virus (TAHV)
	<i>Tataguine orthobunyavirus</i>	Tataguine virus (TATV)
	<i>Tensaw orthobunyavirus</i>	Tensaw virus (TENV)
	<i>Tete orthobunyavirus</i>	Bahig virus (BAHV) Tete virus (TETEV) Tsuruse virus (TSUV) Weldona virus (WELV)
	<i>Thimiri orthobunyavirus</i>	Thimiri virus (THIV)
	<i>Timboteua orthobunyavirus</i>	Timboteua virus (TBTV)
	<i>Triniti orthobunyavirus</i>	Triniti virus (TNTV)

Table 7 (continued)

Genus	Species <sup>†</sup>	Virus (abbreviation) <sup>‡</sup>
	<i>Trivittatus orthobunyavirus</i>	Achiote virus (ACHOV) Trivittatus virus (TDTV)
	<i>Turlock orthobunyavirus</i>	Lednice virus (LEDV) Turlock virus (TURV) Umbre virus (UMBV)
	<i>Utinga orthobunyavirus</i>	Utinga virus (UTIV)
	<i>Witwatersrand orthobunyavirus</i>	Witwatersrand virus (WITV)
	<i>Wolkberg orthobunyavirus</i>	Wolkberg virus (WBV)
	<i>Wyeomyia orthobunyavirus</i>	Rio Pracupi virus Taiassui virus (TAIAV) Tucunduba virus (TUCV) Wyeomyia virus (WYOV)
<i>Pacuvirus</i>	<i>Caimito pacuvirus</i>	Caimito virus (CAIV)
	<i>Chilibre pacuvirus</i>	Chilibre virus (CHIV)
	<i>Pacui pacuvirus</i>	Pacui virus (PACV)
	<i>Rio Preto da Eva pacuvirus</i>	Rio Preto da Eva virus (RPEV)
	<i>Tapirape pacuvirus</i>	Tapirapé virus (TAPV)
<i>Shangavirus</i>	<i>Insect shangavirus</i>	Shuāngào insect virus 1 (SgIV-1)
Family Phasmaviridae		
<i>Feravirus</i>	<i>Ferak feravirus</i>	Ferak virus (FRKV)
	<i>Hemipteran feravirus</i>	hemipteran phasma-related virus OKIAV247 (HeFV)
	<i>Neuropteran feravirus</i>	neuropteran phasma-related virus OKIAV248 (NeFV)
<i>Hymovirus</i>	<i>Hymenopteran hymovirus 1</i>	hymenopteran phasma-related virus OKIAV252 (HyHV-1)
	<i>Hymenopteran hymovirus 2</i>	hymenopteran phasma-related virus OKIAV250 (HyHV-2)
<i>Jonvirus</i>	<i>Jonchet jonvirus</i>	jonchet virus (JONV)
<i>Orthophasmavirus</i>	<i>Anopheles orthophasmavirus</i>	Anopheles triannulatus orthophasmavirus (AtOPV)
	<i>Coleopteran orthophasmavirus</i>	coleopteran phasma-related virus OKIAV235 (CPRV)
	<i>Culex orthophasmavirus</i>	Culex phasma-like virus (CPLV)
	<i>Ganda orthophasmavirus</i>	Ganda bee virus (GBEEV)
	<i>Hymenopteran orthophasmavirus 1</i>	hymenopteran phasma-related virus OKIAV228 (HyOV-1)
	<i>Hymenopteran orthophasmavirus 2</i>	hymenopteran phasma-related virus OKIAV227 (HyOV-2)
	<i>Kigluaik phantom orthophasmavirus</i>	Kigluaik phantom virus (KIGV)
	<i>Niukluk phantom orthophasmavirus</i>	Niukluk phantom virus (NUKV)
	<i>Odonate orthophasmavirus</i>	Húběi odonate virus 8 (HbOV-8)
	<i>Qingling orthophasmavirus</i>	Húběi odonate virus 9 (HbOV-9)
	<i>Wuchang cockroach orthophasmavirus 1</i>	Wūchāng cockroach virus 1 (WcCV-1)
	<i>Wuhan mosquito orthophasmavirus 1</i>	Wūhàn mosquito virus 1 (WhMV-1)
	<i>Wuhan mosquito orthophasmavirus 2</i>	Wūhàn mosquito virus 2 (WhMV-2)
<i>Sawastrivirus</i>	<i>Sanxia sawastrivirus</i>	Sānxíá water strider virus 2 (SxWSV-2)
<i>Wuhivirus</i>	<i>Insect wuhivirus</i>	Wūhàn insect virus 2 (WhIV-2)
Family Pheniviridae		
<i>Bandavirus</i>	<i>Bhanja bandavirus</i>	Bhanja virus (BHAV)
	<i>Dabie bandavirus</i>	severe fever with thrombocytopenia syndrome virus (SFTSV)
	<i>Guertu bandavirus</i>	Güěrtú virus (GTV)
	<i>Heartland bandavirus</i>	Heartland virus (HRTV)
	<i>Hunter Island bandavirus</i>	Albatross Island virus (ABIV)
	<i>Kismaayo bandavirus</i>	Kismaayo virus (KISV)
	<i>Lone star bandavirus</i>	lone star virus (LSV)
	<i>Razdan bandavirus</i>	Razdan virus (RAZV)
<i>Beidivirus</i>	<i>Dipteran beidivirus</i>	Húběi diptera virus 3 (HbDV-3)
<i>Coguvirus</i>	<i>Citrus coguvirus</i>	citrus concave gum-associated virus (CCGaV)
	<i>Coguvirus eburni</i>	citrus virus A (CiV-A)
	<i>Grapevine coguvirus</i>	grapevine associated cogu-like virus 1 (GaCLV-1)
<i>Entovirus</i>	<i>Entoleuca entovirus</i>	Entoleuca phenui-like virus 1 (EnPLV-1)

Table 7 (continued)

Genus	Species <sup>†</sup>	Virus (abbreviation) <sup>‡</sup>	
<i>Goukovirus</i>	<i>Cumuto goukovirus</i>	Cumuto virus (CUMV)	
	<i>Gouleako goukovirus</i>	Gouléako virus (GOLV)	
	<i>Yichang insect goukovirus</i>	Yíchāng insect virus (YcIV)	
<i>Horwuvirus</i>	<i>Horsefly horwuvirus</i>	Wūhàn horsefly virus (WhHV)	
	<i>Kimberley horwuvirus</i>	Fitzroy Crossing tenui-like virus 1 (FCTenV1)	
<i>Hudivirus</i>	<i>Dipteran hudivirus</i>	Húběi diptera virus 4 (HbDV-4)	
<i>Hudovirus</i>	<i>Lepidopteran hudovirus</i>	Húběi lepidoptera virus 1 (HbLV-1)	
<i>Ixovirus</i>	<i>Blackleg ixovirus</i>	blacklegged tick virus 1 (BLTV-1)	
	<i>Norway ixovirus</i>	Fairhair virus (FHAV)	
	<i>Scapularis ixovirus</i>	blacklegged tick virus 3 (BLTV-3)	
<i>Laulavirus</i>	<i>Grapevine laulavirus 2</i>	grapevine associated cogu-like virus 2 (GaCLV-2)	
	<i>Grapevine laulavirus 3</i>	grapevine associated cogu-like virus 3 (GaCLV-3)	
	<i>Grapevine laulavirus 4</i>	grapevine associated cogu-like virus 4 (GaCLV-4)	
	<i>Laurel Lake laulavirus</i>	Laurel Lake virus (LLV)	
<i>Lentinivirus</i>	<i>Lentinula lentinivirus</i>	Lentinula edodes negative-strand RNA virus 2 (LeNSRV-2)	
<i>Mobuvirus</i>	<i>Mothra mobuvirus</i>	Mothra virus (MTHV)	
	<i>Narangue mobuvirus</i>	Ñarangue virus (NRGV)	
<i>Phasivirus</i>	<i>Badu phasivirus</i>	Badu virus (BADUV)	
	<i>Dipteran phasivirus</i>	Húběi diptera virus 5 (HbDV-5)	
	<i>Fly phasivirus</i>	Wūhàn fly virus 1 (WhFV-1)	
	<i>Guadeloupe phasivirus</i>	Guadeloupe mosquito phasivirus (GMPV)	
	<i>Kimberley phasivirus</i>	Parry's Creek phasivirus 1 (PCPhasV1)	
<i>Phlebovirus</i>	<i>Phasi Charoen-like phasivirus</i>	Phasi Charoen-like virus (PCLV)	
	<i>Wutai mosquito phasivirus</i>	Wūtái mosquito virus (WtMV)	
	<i>Adana phlebovirus</i>	Adana virus (ADAV)	
	<i>Aguacate phlebovirus</i>	Aguacate virus (AGUV)	
	<i>Alcubé phlebovirus</i>	Alcubé virus (ACBV)	
	<i>Alenquer phlebovirus</i>	Alenquer virus (ALEV)	
	<i>Ambé phlebovirus</i>	Ambé virus (ABEV)	
	<i>Anhangá phlebovirus</i>	Anhangá virus (ANHV)	
	<i>Arumowot phlebovirus</i>	Arumowot virus (AMTV)	
	<i>Buenaventura phlebovirus</i>	Buenaventura virus (BUEV)	
	<i>Bogoria phlebovirus</i>	Bogoria virus (BGRV)	
	<i>Bujaru phlebovirus</i>	Bujaru virus (BUJV)	
	<i>Cacao phlebovirus</i>	Cacao virus (CACV)	
	<i>Campana phlebovirus</i>	Campana virus (CMAV)	
	<i>Candiru phlebovirus</i>	Ariquemés virus (ARQV)	
		Candirú virus (CDUV)	
		Jacundá virus (JCNV)	
		Morumbi virus (MR(M)BV)	
		Mucura virus (MCRV/MRAV)	
		Serra Norte virus (SRNV)	
		Chagres phlebovirus	Chagres virus (CHGV)
		Cocle phlebovirus	Coclé virus (CCLV)
		Corfou phlebovirus	Corfou virus (CFUV)
		Dashli phlebovirus	Dāshlǐ virus (DASV)
		Durania phlebovirus	Durania virus (DRNV)
		Echarate phlebovirus	Echarate virus (ECHV)
		Embossos phlebovirus	Embossos virus (EMBV)
		Gabek phlebovirus	Gabek forest virus (GFV)
		Gordil phlebovirus	Gordil virus (GORV)
	Icoaraci phlebovirus	Icoaraci virus (ICOV)	
	Itaituba phlebovirus	Itaituba virus (ITAV)	
	Itaporanga phlebovirus	Itaporanga virus (ITPV)	
	Ixcanal phlebovirus	Ixcanal virus (IXCV)	

Table 7 (continued)

Genus	Species <sup>‡</sup>	Virus (abbreviation) <sup>&amp;</sup>
	<i>Karimabad phlebovirus</i>	Karimabad virus (KARV)
	<i>Kiborgoch phlebovirus</i>	Kiborgoch virus (KBGV)
	<i>La Gloria phlebovirus</i>	La Gloria virus (LAGV)
	<i>Lara phlebovirus</i>	Rio Claro virus (RICV)
	<i>Leticia phlebovirus</i>	Leticia virus (LTCV)
	<i>Maldonado phlebovirus</i>	Maldonado virus (MLOV)
	<i>Mariquita phlebovirus</i>	Mariquita virus (MRQV)
	<i>Massilia phlebovirus</i>	Massilia virus (MASV)
	<i>Medjerda phlebovirus</i>	Medjerda Valley virus (MVV)
	<i>Mona Grita phlebovirus</i>	Mona Grita virus (MOGV)
	<i>Mukawa phlebovirus</i>	Mukawa virus (MKWV)
	<i>Munguba phlebovirus</i>	Munguba virus (MUNV)
	<i>Naples phlebovirus</i>	Arrábida virus (ARRV)
		Balkan virus (BALKV)
		Fermo virus (FERV)
		Granada virus (GRV = GRAV)
		Saddaguia virus (SADV)
		sandfly fever Naples virus (SFNV)
	<i>Nique phlebovirus</i>	Nique virus (NIQV)
	<i>Ntepes phlebovirus</i>	Ntepes virus (NTPV)
	<i>Odrenisrou phlebovirus</i>	Odrénisrou virus (ODRV)
	<i>Oriximina phlebovirus</i>	Oriximiná virus (ORXV)
	<i>Pena Blanca phlebovirus</i>	Peña Blanca virus (PEBV)
	<i>Penshurt phlebovirus</i>	Penshurt virus (PEHV)
	<i>Perkerra phlebovirus</i>	Perkerra virus (PKEV)
	<i>Punique phlebovirus</i>	Punique virus (PUNV)
	<i>Punta Toro phlebovirus</i>	Capira virus (CAPIV)
		Punta Toro virus (PTV)
	<i>Rift Valley fever phlebovirus</i>	Rift Valley fever virus (RVFV)
	<i>Rio Grande phlebovirus</i>	Rio Grande virus (RGV)
	<i>Saint Floris phlebovirus</i>	Saint-Floris virus (SAFV)
	<i>Salanga phlebovirus</i>	Salanga virus (SLGV)
	<i>Salehabad phlebovirus</i>	Adria virus (ADRV)
		Arbia virus (ARBV)
		Bregalaka virus (BREV)
		Olbia virus (OLBV)
		Salehabad virus (SALV)
		Zaba virus (ZABAV)
	<i>Salobo phlebovirus</i>	Salobo virus (SLBOV)
	<i>Sicilian phlebovirus</i>	sandfly fever Sicilian virus (SFSV)
	<i>Tapara phlebovirus</i>	Tapará virus (TPRV)
	<i>Tehran phlebovirus</i>	Tehran virus (THEV)
	<i>Tico phlebovirus</i>	Tico virus (TICV)
	<i>Toros phlebovirus</i>	Toros virus (TORV)
	<i>Toscana phlebovirus</i>	Toscana virus (TOSV)
	<i>Tres Almendras phlebovirus</i>	Tres Almendras virus (TRAV)
	<i>Turuna phlebovirus</i>	Turuna virus (TUAV)
	<i>Uriurana phlebovirus</i>	Uriurana virus (URIV)
	<i>Urucuri phlebovirus</i>	Urucuri virus (URUV)
	<i>Viola phlebovirus</i>	viola virus (VIOV)
	<i>Zerdali phlebovirus</i>	Zerdali virus (ZERV)
<i>Pidchovirus</i>	<i>Coleopteran pidchovirus</i>	coleopteran phenui-related virus 308 (CoPrV-308)
	<i>Pidgey pidchovirus</i>	Pidgey virus (PGYV)

Table 7 (continued)

Genus	Species <sup>†</sup>	Virus (abbreviation) <sup>‡</sup>
<i>Rubodvirus</i>	<i>Apple rubodvirus 1</i>	apple rubbery wood virus 1 (ARWV-1)
	<i>Apple rubodvirus 2</i>	apple rubbery wood virus 2 (ARWV-2)
	<i>Grapevine rubodvirus 1</i>	grapevine Garan dmak virus (GGDV)
	<i>Grapevine rubodvirus 2</i>	grapevine Muscat rose virus (GMRV)
<i>Tanzavirus</i>	<i>Human tanzavirus</i>	Dar es Salaam virus (DeSV)
<i>Tenuivirus</i>	<i>Echinochloa hoja blanca tenuivirus</i>	Echinochloa hoja blanca virus (EHBV)
	<i>European wheat striate mosaic tenuivirus</i>	European wheat striate mosaic virus (EWSMV)
	<i>Iranian wheat stripe tenuivirus</i>	Iranian wheat stripe virus (IWSV)
	<i>Maize stripe tenuivirus</i>	maize stripe virus (MStV = MSPV)
	<i>Melon tenuivirus</i>	melon chlorotic spot virus (MeCSV)
	<i>Rice grassy stunt tenuivirus</i>	rice grassy stunt virus (RGSV)
	<i>Rice hoja blanca tenuivirus</i>	rice hoja blanca virus (RHBV)
	<i>Rice stripe tenuivirus</i>	rice stripe virus (RSV = RStV)
	<i>Urochloa hoja blanca tenuivirus</i>	Urochloa hoja blanca virus (UHBV)
<i>Uukuvirus</i>	<i>American dog uukuvirus</i>	American dog tick virus (ADAV)
	<i>Dabieshan uukuvirus</i>	Dābiéshān tick virus (DBSH)
	<i>Grand Arbaud uukuvirus</i>	Grand Arbaud virus (GAV)
	<i>Huangpi uukuvirus</i>	Huángpí tick virus 2 (HpTV-2)
	<i>Kabuto mountain uukuvirus</i>	Kabuto mountain virus (KAMV)
	<i>Kaisodi uukuvirus</i>	Kaisodi virus (KASDV)
	<i>Lihan uukuvirus</i>	Lihán tick virus (LITV)
	<i>Manawa uukuvirus</i>	Manawa virus (MWAV)
	<i>Murre uukuvirus</i>	murre virus (MURV)
	<i>Pacific coast uukuvirus</i>	Pacific coast tick virus (PACV)
	<i>Precarious Point uukuvirus</i>	Precarious Point virus (PPV)
	<i>Rukutama uukuvirus</i>	Rukutama virus (RUKV)
	<i>Schmid uukuvirus</i>	Nile Warbler virus (NIWV)
	<i>Silverwater uukuvirus</i>	Silverwater virus (SILV)
	<i>Tacheng uukuvirus</i>	Táchéng tick virus 2 (TCGV)
	<i>Uukuniemi uukuvirus</i>	Chizé virus (CHZV)
		Fin V 707 virus (FINV)
		Oceanside virus (OCV = OCEV)
		Pontevès virus (PTVV)
		St. Abbs Head virus (SAHV)
	Uukuniemi virus (UUKV)	
	Yǒngjiā tick virus (YONV)	
	Zaliv Terpeniya virus (ZTV)	
	Mourilyan virus (MoV)	
<i>Wenrivirus</i>	<i>Shrimp wenrivirus</i>	
Family <i>Tospoviridae</i>		
<i>Orthospovirus</i>	<i>Alstroemeria necrotic streak orthospovirus</i>	Alstroemeria necrotic streak virus (ANSV)
	<i>Alstroemeria yellow spot orthospovirus</i>	Alstroemeria yellow spot virus (AYSV)
	<i>Bean necrotic mosaic orthospovirus</i>	bean necrotic mosaic virus (BeNMV)
	<i>Calla lily chlorotic spot orthospovirus</i>	calla lily chlorotic spot virus (CCSV)
	<i>Capsicum chlorosis orthospovirus</i>	Capsicum chlorosis virus (CaCV)
	<i>Chrysanthemum stem necrosis orthospovirus</i>	Chrysanthemum stem necrosis virus (CSNV)
	<i>Groundnut bud necrosis orthospovirus</i>	groundnut bud necrosis virus (GBNV)
	<i>Groundnut chlorotic fan spot orthospovirus</i>	groundnut chlorotic fan-spot virus (GCFSV)
	<i>Groundnut ringspot orthospovirus</i>	groundnut ringspot virus (GRSV)
	<i>Groundnut yellow spot orthospovirus</i>	groundnut yellow spot virus (GYSV)
	<i>Hippeastrum chlorotic ringspot orthospovirus</i>	Hippeastrum chlorotic spot virus (HCRV)
	<i>Impatiens necrotic spot orthospovirus</i>	impatiens necrotic spot virus (INSV)
	<i>Iris yellow spot orthospovirus</i>	iris yellow spot virus (IYSV)
	<i>Melon severe mosaic orthospovirus</i>	melon severe mosaic virus (MSMV)
	<i>Melon yellow spot orthospovirus</i>	melon yellow spot virus (MYSV)
	<i>Mulberry vein banding associated orthospovirus</i>	mulberry vein banding-associated virus (MVBaV)

**Table 7** (continued)

Genus	Species <sup>‡</sup>	Virus (abbreviation) <sup>&amp;</sup>
	<i>Pepper chlorotic spot orthotospovirus</i>	pepper chlorotic spot virus (PCSV)
	<i>Polygonum ringspot orthotospovirus</i>	Polygonum ringspot virus (PoIRSV)
	<i>Soybean vein necrosis orthotospovirus</i>	soybean vein necrosis virus (SVNV)
	<i>Tomato chlorotic spot orthotospovirus</i>	tomato chlorotic spot virus (TCSV)
	<i>Tomato spotted wilt orthotospovirus</i>	tomato spotted wilt virus (TSWV)
	<i>Tomato yellow ring orthotospovirus</i>	tomato yellow ring virus (TYRV)
	<i>Tomato zonate spot orthotospovirus</i>	tomato zonate spot virus (TZSV)
	<i>Watermelon bud necrosis orthotospovirus</i>	watermelon bud necrosis virus (WBNV)
	<i>Watermelon silver mottle orthotospovirus</i>	watermelon silver mottle virus (WSMoV)
	<i>Zucchini lethal chlorosis orthotospovirus</i>	zucchini lethal chlorosis virus (ZLCV)
Family <i>Wupedeviridae</i>		
<i>Wumivirus</i>	<i>Millipede wumivirus</i>	Wùhàn millipede virus 2 (WhMV-2)

Note that viruses are real objects that are assigned to concepts that are called taxa. Species, genera, subfamilies, families, and orders are taxa

<sup>‡</sup>Taxon names are always italicized and always begin with a capital letter

<sup>&</sup>Virus names are not italicized and are not capitalized, except if the name or a name component is a proper noun. This column lists the virus names with their correct (lack of) capitalization. Lists of viruses within a given species are provisional at this point and will likely be amended in the near future

Paola; Koray Ergünay; Aura R. Garrison; Roger Hewson; Jens H. Kuhn; Ali Mirazimi; Gustavo Palacios; Anna Papa (Αννα Παπά); Jessica R. Spengler), *Negarnaviricota* (Eugene V. Koonin; Mart Krupovic; Jens H. Kuhn; Yuri I. Wolf), *Nyamiviridae* (Ralf G. Dietzgen; Dào'hóng Jiāng (姜道宏); Jens H. Kuhn; Nikos Vasilakis (Νίκος Βασιλάκης)), *Orthomyxoviridae* (Justin Bahl; Inmaculada Casas; Adolfo García-Sastre; Sergio H. Marshall; John W. McCauley; Gabriele Neumann; Colin R. Parrish; Daniel R. Pérez; Jonathan A. Runstadler; Martin Schwemmler), *Paramyxoviridae* (Anne Balkema-Buschmann; William G. Dundon; W. Paul Duprex; Andrew J. Easton; Gael Kurath; Benhur Lee; Bertus K. Rima; Lin-Fa Wang (王林发)), *Peribunyaviridae* (Scott Adkins; Sergey V. Alkhovsky (Альховский Сергей Владимирович); Martin Beer; Carol D. Blair; Charles H. Calisher; Michael A. Drebot; Holly R. Hughes; Amy J. Lambert; William Marciel de Souza; Marco Marklewitz; Xiāohóng Shí (石晓宏)), *Phasmaviridae* (Matthew J. Ballinger; Roy A. Hall; Sandra Junglen; Stanley L. Langevin; Alex Pauvolid-Corrêa), *Phenuiviridae* (Thomas Briese; Rémi N. Charrel; Hideki Ebihara (海老原秀喜); Martin H. Groschup; Gustavo Palacios; Takahide Sasaya (笹谷孝英); Jin-Won Song (송진원)), *Pneumoviridae* (Paul A. Brown; Ursula J. Buchholz; Rik L. de Swart; J. Felix Drexler; W. Paul Duprex; Andrew J. Easton; Jiànróng Lǐ (李建荣); Kirsten Spann; Natalie J. Thornburg; Bernadette van den Hoogen; John V. Williams), *Rhabdoviridae* (Kim R. Blasdel; Rachel Breyta; Ralf G. Dietzgen; Anthony R. Fooks; Juliana Freitas-Astúa; Hideki Kondō (近藤秀樹); Gael Kurath; David M. Stone; Robert B. Tesh; Noël Tordo; Nikos Vasilakis (Νίκος Βασιλάκης); Peter J. Walker; Anna E. Whitfield), *Sunviridae* (Gael Kurath), *Tenuivirus* (Il-Ryong Choi; Gilda B. Jonson; Takahide Sasaya (笹谷孝英); Yukio Shirako; Tàiyún Wèi (魏太云); Xueping Zhou (周雪平)), and *Tospoviridae* (Scott Adkins; Amy J. Lambert; Rayapati Naidu; Renato O. Resende; Massimo Turina; Anna E. Whitfield)

2017–2020 and 2020–2023 ICTV Chair of the Animal dsRNA and ssRNA- Viruses Subcommittee (Jens H. Kuhn); 2020–2023 ICTV Chair of the Archaeal Viruses Subcommittee (Mart Krupovic); 2020–2023 ICTV Data Secretary (Elliot J. Lefkowitz); 2017–2020 Elected Member of the ICTV Executive Committee and 2020–2023 ICTV Chair of the Plant Viruses Subcommittee (Luisa Rubino); 2017–2020 Elected Member of the ICTV Executive Committee and 2020–2023 ICTV Chair Fungal and Protist Viruses Subcommittee

(Sead Sabanadzovic); 2020–2023 ICTV Vice-President (Stuart G. Siddell); 2017–2020 ICTV Chair of the Fungal and Protist Viruses Subcommittee and 2020–2023 ICTV Chair of the Animal ssRNA+ Viruses Subcommittee (Peter Simmonds); 2017–2020 Elected Member of the ICTV Executive Committee and 2020–2023 ICTV Chair of the Animal DNA Viruses and Retroviruses Subcommittee (Arvind Varsani); 2017–2020 and 2020–2023 ICTV Proposal Secretary (Peter J. Walker); and 2017–2020 ICTV Chair of the Plant Viruses Subcommittee and the 2020–2023 ICTV President (F. Murilo Zerbini)

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## Declarations

**Conflict of interest** The authors declare no conflicts of interest. The views and conclusions contained in this document are those of the authors and should not be interpreted as necessarily representing the official policies, either expressed or implied, of the US Department of the Army, the US Department of Defense, the US Department of Health and Human Services, the US Department of Homeland Security (DHS) Science and Technology Directorate (S&T), or of the institutions and companies affiliated with the authors. In no event shall any of these entities have any responsibility or liability for any use, misuse, inability to use, or reliance upon the information contained herein. The US departments do not endorse any products or commercial services mentioned in this publication. The US Government retains and the publisher, by accepting the article for publication, acknowledges that the US Government retains a non-exclusive, paid up, irrevocable, world-wide license to publish or reproduce the published form of this manuscript, or allow others to do so, for US Government purposes.

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## Authors and Affiliations

Jens H. Kuhn<sup>1</sup> · Scott Adkins<sup>2</sup> · Bernard R. Agwanda<sup>211,212</sup> · Rim Al Kubrusli<sup>3</sup> · Sergey V. Alkhovsky (Альховский Сергей Владимирович)<sup>4</sup> · Gaya K. Amarasinghe<sup>5</sup> · Tatjana Avšič-Županc<sup>6</sup> · María A. Ayllón<sup>7,197</sup> · Justin Bahl<sup>8</sup> · Anne Balkema-Buschmann<sup>9</sup> · Matthew J. Ballinger<sup>10</sup> · Christopher F. Basler<sup>11</sup> · Sina Bavari<sup>12</sup> · Martin Beer<sup>13</sup> · Nicolas Bejerman<sup>14</sup> · Andrew J. Bennett<sup>15</sup> · Dennis A. Bente<sup>16</sup> · Éric Bergeron<sup>17</sup> · Brian H. Bird<sup>18</sup> · Carol D. Blair<sup>19</sup> · Kim R. Blasdel<sup>20</sup> · Dag-Ragnar Blystad<sup>21</sup> · Jamie Bojko<sup>22,198</sup> · Wayne B. Borth<sup>23</sup> · Steven Bradfute<sup>24</sup> · Rachel Breyta<sup>25,199</sup> · Thomas Briese<sup>26</sup> · Paul A. Brown<sup>27</sup> · Judith K. Brown<sup>28</sup> · Ursula J. Buchholz<sup>29</sup> · Michael J. Buchmeier<sup>30</sup> · Alexander Bukreyev<sup>31</sup> · Felicity Burt<sup>32</sup> · Carmen Büttner<sup>3</sup> · Charles H. Calisher<sup>33</sup> · Mengji Cao (曹孟籍)<sup>34</sup> · Inmaculada Casas<sup>35</sup> · Kartik Chandran<sup>36</sup> · Rémi N. Charrel<sup>37</sup> · Qi Cheng<sup>38</sup> · Yuya Chiaki (千秋祐也)<sup>39</sup> · Marco Chiapello<sup>40</sup> · Il-Ryong Choi<sup>41</sup> · Marina Ciuffo<sup>40</sup> · J. Christopher S. Clegg<sup>42</sup> · Ian Crozier<sup>43</sup> · Elena Dal Bó<sup>44</sup> · Juan Carlos de la Torre<sup>45</sup> · Xavier de Lamballerie<sup>37</sup> · Rik L. de Swart<sup>46</sup> · Humberto Debat<sup>47,200</sup> · Nolwenn M. Dheilly<sup>48</sup> · Emiliano Di Cicco<sup>49</sup> · Nicholas Di Paola<sup>50</sup> · Francesco Di Serio<sup>51</sup> · Ralf G. Dietzgen<sup>52</sup> · Michele Digiaro<sup>53</sup> · Olga Dolnik<sup>54</sup> · Michael A. Drebot<sup>55</sup> · J. Felix Drexler<sup>56</sup> · William G. Dundon<sup>57</sup> · W. Paul Duprex<sup>58</sup> · Ralf Dürrwald<sup>59</sup> · John M. Dye<sup>50</sup> · Andrew J. Easton<sup>60</sup> · Hideki Ebihara (海老原秀喜)<sup>61</sup> · Toufic Elbeaino<sup>62</sup> · Koray Ergünay<sup>63</sup> · Hugh W. Ferguson<sup>213</sup> · Anthony R. Fooks<sup>64</sup> · Marco Forgia<sup>65</sup> · Pierre B. H. Formenty<sup>66</sup> · Jana Fránová<sup>67</sup> · Juliana Freitas-Astúa<sup>68</sup> · Jingjing Fu (付晶晶)<sup>69</sup> · Stephanie Furl<sup>70</sup> · Selma Gago-Zachert<sup>71</sup> · George Fú Gão (高福)<sup>214</sup> · María Laura García<sup>72</sup> · Adolfo García-Sastre<sup>73</sup> · Aura R. Garrison<sup>50</sup> · Thomas Gaskin<sup>74,3</sup> · Jean-Paul J. Gonzalez<sup>75,201</sup> · Anthony Griffiths<sup>76</sup> · Tony L. Goldberg<sup>77</sup> · Martin H. Groschup<sup>78</sup> · Stephan Günther<sup>79</sup> · Roy A. Hall<sup>80</sup> · John Hammond<sup>81</sup> · Tong Han (韓彤)<sup>69</sup> · Jussi Hepojoki<sup>82,202</sup> · Roger Hewson<sup>83</sup> · Jiang Hong (洪健)<sup>84</sup> · Ni Hong (洪霓)<sup>85</sup> · Seiji Hongo (本郷誠治)<sup>215</sup> · Masayuki Horie (堀江真行)<sup>86,203</sup> · John S. Hu<sup>23</sup> · Tao Hu<sup>38</sup> · Holly R. Hughes<sup>87</sup> · Florian Hüttner<sup>3</sup> · Timothy H. Hyndman<sup>88</sup> · M. Ilyas<sup>89</sup> · Risto Jalkanen<sup>90</sup> · Dàohóng Jiāng (姜道宏)<sup>91</sup> · Gilda B. Jonson<sup>92</sup> · Sandra Junglen<sup>93,204</sup> · Fujio Kadono (上遠野富士夫)<sup>94</sup> · Karia H. Kaukinen<sup>95</sup> · Michael Kawate<sup>23</sup> · Boris Klempa<sup>96</sup> · Jonas Klingström<sup>97</sup> · Gary Kobinger<sup>216</sup> · Igor Koloniuk<sup>67</sup> · Hideki Kondō (近藤秀樹)<sup>98</sup> · Eugene V. Koonin<sup>99</sup> · Mart Krupovic<sup>100</sup> · Kenji Kubota (久保田健嗣)<sup>101</sup> · Gael Kurath<sup>102</sup> · Lies Laenen<sup>103,205</sup> · Amy J. Lambert<sup>87</sup> · Stanley L. Langevin<sup>104</sup> · Benhur Lee<sup>105</sup> · Elliot J. Lefkowitz<sup>106</sup>

Eric M. Leroy<sup>107</sup>  · Shaorong Li (李邵蓉)<sup>108</sup>  · Longhui Li (李龙辉)<sup>85</sup> · Jiànróng Lǐ (李建荣)<sup>109</sup> · Huazhen Liu (刘华珍)<sup>85</sup> · Igor S. Lukashevich<sup>110</sup>  · Piet Maes<sup>103</sup>  · William Marciel de Souza<sup>111</sup>  · Marco Marklewitz<sup>93,206</sup>  · Sergio H. Marshall<sup>112</sup>  · Shin-Yi L. Marzano<sup>113</sup> · Sebastien Massart<sup>114</sup>  · John W. McCauley<sup>115</sup>  · Michael Melzer<sup>116</sup>  · Nicole Mielke-Ehret<sup>117</sup> · Kristina M. Miller<sup>95</sup> · Tobi J. Ming<sup>118</sup>  · Ali Mirazimi<sup>119</sup> · Gideon J. Mordecai<sup>120</sup>  · Hans-Peter Mühlbach<sup>117</sup> · Elke Mühlberger<sup>76</sup>  · Rayapati Naidu<sup>121</sup>  · Tomohide Natsuaki (夏秋知英)<sup>122</sup>  · José A. Navarro<sup>123</sup> · Sergey V. Netesov (Нетесов Сергей Викторович)<sup>124</sup>  · Gabriele Neumann<sup>125</sup>  · Norbert Nowotny<sup>126,207</sup>  · Márcio R. T. Nunes<sup>217</sup>  · Alejandro Olmedo-Velarde<sup>23</sup>  · Gustavo Palacios<sup>50</sup>  · Vicente Pallás<sup>127</sup>  · Bernadett Pályi<sup>128</sup>  · Anna Papa (Άννα Παπά)<sup>129</sup>  · Sofia Paraskevopoulou (Σοφία Παρασκευοπούλου)<sup>130</sup>  · Adam C. Park<sup>23,208</sup> · Colin R. Parrish<sup>131</sup> · David A. Patterson<sup>132</sup> · Alex Pauvolid-Corrêa<sup>133,209</sup>  · Janusz T. Pawęska<sup>134</sup>  · Susan Payne<sup>135</sup>  · Carlotta Peracchio<sup>40</sup>  · Daniel R. Pérez<sup>136</sup>  · Thomas S. Postler<sup>137</sup>  · Liying Qi (齐立莹)<sup>138</sup> · Sheli R. Radoshitzky<sup>139</sup>  · Renato O. Resende<sup>140</sup>  · Carina A. Reyes<sup>141</sup> · Bertus K. Rima<sup>142</sup>  · Gabriel Robles Luna<sup>141</sup> · Víctor Romanowski<sup>143</sup>  · Paul Rota<sup>218</sup> · Dennis Rubbenstroth<sup>144</sup>  · Luisa Rubino<sup>145</sup>  · Jonathan A. Runstadler<sup>146</sup>  · Sead Sabanadzovic<sup>147</sup>  · Amadou Alpha Sall<sup>219</sup> · Maria S. Salvato<sup>148</sup>  · Rosemary Sang<sup>149</sup> · Takahide Sasaya (笹谷孝英)<sup>150</sup>  · Angela D. Schulze<sup>151</sup> · Martin Schwemmler<sup>152</sup>  · Mang Shi (施莽)<sup>153</sup>  · Xiāohóng Shí (石晓宏)<sup>154</sup>  · Zhènglǐ Shí (石正丽)<sup>155</sup>  · Yoshifumi Shimomoto (下元祥史)<sup>156</sup> · Yukio Shirako<sup>157</sup> · Stuart G. Siddell<sup>158</sup>  · Peter Simmonds<sup>159</sup>  · Manuela Sironi<sup>160</sup>  · Guy Smagghe<sup>161</sup>  · Sophie Smither<sup>162</sup>  · Jin-Won Song (송진원)<sup>163</sup> · Kirsten Spann<sup>164</sup>  · Jessica R. Spengler<sup>165</sup>  · Mark D. Stenglein<sup>166</sup>  · David M. Stone<sup>167</sup>  · Jari Sugano<sup>23</sup> · Curtis A. Suttle<sup>168</sup>  · Amy Tabata<sup>95</sup> · Ayato Takada (高田礼人)<sup>169</sup>  · Shigeharu Takeuchi (竹内繁治)<sup>170</sup> · David P. Tchouassi<sup>149</sup>  · Amy Teffer<sup>171</sup>  · Robert B. Tesh<sup>172</sup> · Natalie J. Thornburg<sup>173</sup> · Yasuhiro Tomitaka (富高保弘)<sup>174</sup>  · Keizō Tomonaga (朝長啓造)<sup>175</sup>  · Noël Tordo<sup>176</sup>  · Baldwyn Torto<sup>149</sup> · Jonathan S. Towner<sup>177,196</sup>  · Shinya Tsuda (津田新哉)<sup>94</sup> · Changchun Tu (涂长春)<sup>178</sup>  · Massimo Turina<sup>179</sup>  · Ioannis E. Tzanetakis<sup>180</sup>  · Janice Uchida<sup>23</sup>  · Tomio Usugi (宇杉宣雄)<sup>101</sup> · Anna Maria Vaira<sup>40</sup>  · Marta Vallino<sup>40</sup>  · Bernadette van den Hoogen<sup>181</sup>  · Arvind Varsani<sup>182,210</sup>  · Nikos Vasilakis (Νίκος Βασιλάκης)<sup>172</sup>  · Martin Verbeek<sup>183</sup>  · Susanne von Barga<sup>3</sup> · Jiro Wada (和田治郎)<sup>1</sup> · Victoria Wahl<sup>184</sup>  · Peter J. Walker<sup>185</sup>  · Lin-Fa Wang (王林发)<sup>186</sup>  · Guoping Wang (王国平)<sup>85</sup> · Yanxiang Wang (王雁翔)<sup>85</sup> · Yaqin Wang (王亚琴)<sup>38</sup> · Muhammad Waqas<sup>187</sup> · Tàiyún Wèi (魏太云)<sup>188</sup> · Shaohua Wen (温少华)<sup>85</sup> · Anna E. Whitfield<sup>189</sup>  · John V. Williams<sup>190</sup>  · Yuri I. Wolf<sup>99</sup>  · Jiangxiang Wu (吴建祥)<sup>38</sup>  · Lei Xu (徐雷)<sup>138</sup> · Hironobu Yanagisawa (柳澤広宣)<sup>191</sup>  · Caixia Yang (杨彩霞)<sup>69</sup>  · Zuokun Yang (杨作坤)<sup>85</sup> · F. Murilo Zerbini<sup>192</sup>  · Lifeng Zhai (翟立峰)<sup>193</sup> · Yong-Zhen Zhang (张永振)<sup>220,221</sup> · Song Zhang (张松)<sup>34</sup> · Jinguo Zhang (张靖国)<sup>194</sup> · Zhe Zhang (张哲)<sup>85</sup> · Xueping Zhou (周雪平)<sup>195</sup> 

✉ Jens H. Kuhn  
kuhnjens@mail.nih.gov

Scott Adkins  
scott.adkins@usda.gov

Bernard R. Agwanda  
bagwanda@museums.or.ke; benrisky@gmail.com

Rim Al Kubrusli  
kubruslr@hu-berlin.de

Sergey V. Alkhovskiy (Альховский Сергей Владимирович)  
salkh@ya.ru

Gaya K. Amarasinghe  
GAmarasinghe@path.wustl.edu

Tatjana Avšič-Županc  
Tatjana.Avsic@mf.uni-lj.si

María A. Ayllón  
mariaangeles.ayllon@upm.es

Justin Bahl  
Justin.Bahl@uga.edu

Anne Balkema-Buschmann  
anne.buschmann@fli.de

Matthew J. Ballinger  
ballinger@biology.msstate.edu

Christopher F. Basler  
cbasler@gsu.edu

Sina Bavari  
sinabavari@comcast.net

Martin Beer  
Martin.Beer@fli.de

Nicolas Bejerman  
bejerman.nicolas@inta.gob.ar

Andrew J. Bennett  
andrew.j.bennett64.ctr@mail.mil

Dennis A. Bente  
dabente@utmb.edu

Éric Bergeron  
exj8@edc.gov

Brian H. Bird  
bbbird@ucdavis.edu

Carol D. Blair  
Carol.Blair@colostate.edu

Kim R. Blasdell  
kim.blasdell@csiro.au

Dag-Ragnar Blystad  
dag-ragnar.blystad@nibio.no

Jamie Bojko  
J.Bojko@tees.ac.uk

Wayne B. Borth  
borth@hawaii.edu

Steven Bradfute  
sbradfute@salud.unm.edu

Rachel Breyta  
rbjmax@uw.edu

Thomas Briese  
tb2047@cumc.columbia.edu

Paul A. Brown  
paul.brown@anses.fr

Judith K. Brown  
jbrown@ag.arizona.edu

Ursula J. Buchholz  
ubuchholz@niaid.nih.gov

Michael J. Buchmeier  
m.buchmeier@uci.edu

Alexander Bukreyev  
alexander.bukreyev@utmb.edu

Felicity Burt  
burtfj@ufs.ac.za

Carmen Büttner  
carmen.buettner@agrar.hu-berlin.de

Charles H. Calisher  
calisher@cybersafe.net

Mengji Cao (曹孟籍)  
caomengji@cric.cn

Inmaculada Casas  
icasas@isciii.es

Kartik Chandran  
kartik.chandran@einsteinmed.org

Rémi N. Charrel  
remi.charrel@univ-amu.fr

Qi Cheng  
2765227021@qq.com

Yuya Chiaki (千秋祐也)  
chiakiy151@affrc.go.jp

Marco Chiapello  
marco.chiapello@ipsp.cnr.it; chiapello.m@gmail.com

Il-Ryong Choi  
icho51@hotmail.com

Marina Ciuffo  
marina.ciuffo@ipsp.cnr.it

J. Christopher S. Clegg  
cleggjcs@yahoo.fr

Ian Crozier  
ian.crozier@nih.gov

Elena Dal Bó  
elenadalbocastanion@gmail.com

Juan Carlos de la Torre  
juanct@scripps.edu

Xavier de Lamballerie  
xavier.de-lamballerie@univ-amu.fr

Rik L. de Swart  
r.deswart@erasmusmc.nl

Humberto Debat  
debat.humberto@inta.gob.ar

Nolwenn M. Dheilly  
nolwenn.dheilly@anses.fr

Emiliano Di Cicco  
edicicco@psf.ca

Nicholas Di Paola  
nicholas.dipaola.ctr@mail.mil

Francesco Di Serio  
francesco.diserio@ipsp.cnr.it

Ralf G. Dietzgen  
r.dietzgen@uq.edu.au

Michele Digiaro  
digiaro@iamb.it

Olga Dolnik  
Dolnik@staff.uni-marburg.de

Michael A. Drebot  
mike.drebot@canada.ca

J. Felix Drexler  
felix.drexler@charite.de

William G. Dundon  
W.Dundon@iaea.org

W. Paul Duprex  
pduprex@pitt.edu

Ralf Dürrwald  
duerrwaldr@rki.de

John M. Dye  
john.m.dye1.civ@mail.mil

Andrew J. Easton  
A.J.Easton@warwick.ac.uk

Hideki Ebihara (海老原秀喜)  
Ebihara.Hideki@mayo.edu

Toufic Elbeaino  
elbeaino@iamb.it

Koray Ergünay  
ekoray@hacettepe.edu.tr

Hugh W. Ferguson  
hf.fishpathology@gmail.com

Anthony R. Fooks  
Tony.Fooks@apha.gov.uk

- Marco Forgia  
marco.forgia@ips.cnr.it
- Pierre B. H. Formenty  
formentyp@who.int
- Jana Fránová  
jana@umbr.cas.cz
- Juliana Freitas-Astúa  
juliana.astua@embrapa.br
- Jingjing Fu (付晶晶)  
fujingjing6595@qq.com
- Stephanie Fürl  
stephie\_fuerl@gmx.de
- Selma Gago-Zachert  
selma.gago-zachert@bct.uni-halle.de
- George Fú Gão (高福)  
gaof@im.ac.cn
- María Laura García  
garcia\_m@biol.unlp.edu.ar
- Adolfo García-Sastre  
Adolfo.Garcia-Sastre@mssm.edu
- Aura R. Garrison  
aura.r.garrison.civ@mail.mil
- Thomas Gaskin  
Thomas.Gaskin@lfb.Brandenburg.de
- Jean-Paul J. Gonzalez  
Jean.Paul.Gonzalez@georgetown.edu;  
jpgonzalez2808@gmail.com
- Anthony Griffiths  
ahgriff@bu.edu
- Tony L. Goldberg  
tony.goldberg@wisc.edu
- Martin H. Groschup  
Martin.Groschup@fli.de
- Stephan Günther  
guenther@bni.uni-hamburg.de
- Roy A. Hall  
roy.hall@uq.edu.au
- John Hammond  
John.Hammond@usda.gov
- Tong Han (韩彤)  
437828698@qq.com
- Jussi Hepojoki  
jussi.hepojoki@helsinki.fi; jussi.hepojoki@uzh.ch
- Roger Hewson  
roger.hewson1@lshtm.ac.uk
- Jiang Hong (洪健)  
jhong@zju.edu.cn
- Ni Hong (洪霓)  
whni@mail.hzau.edu.cn
- Seiji Hongo (本郷誠治)  
shongou@med.id.yamagata-u.ac.jp
- Masayuki Horie (堀江 行)  
mhorie@vet.osakafu-u.ac.jp
- John S. Hu  
johnhu@hawaii.edu
- Tao Hu  
taohu1989@zju.edu.cn
- Holly R. Hughes  
ltr8@cdc.gov
- Florian Hüttner  
baumflo@hotmail.com
- Timothy H. Hyndman  
T.Hyndman@murdoch.edu.au
- M. Ilyas  
milyassarwar@gmail.com; milyas2@ncsu.edu
- Risto Jalkanen  
ristjal@gmail.com
- Dàohóng Jiāng (姜道宏)  
daohongjiang@mail.hzau.edu.cn
- Gilda B. Jonson  
G.Jonson@irri.org; jonson\_gilda@yahoo.com
- Sandra Junglen  
sandra.junglen@charite.de
- Fujio Kadono (上遠野富士夫)  
acaritick@yahoo.co.jp
- Karia H. Kaukinen  
Karia.Kaukinen@dfo-mpo.gc.ca
- Michael Kawate  
mkawate@hawaii.edu
- Boris Klempa  
boris.klempa@savba.sk
- Jonas Klingström  
jonas.klingstrom@ki.se
- Gary Kobinger  
gpkobinger@gmail.com
- Igor Koloniuk  
koloniuk@umbr.cas.cz
- Hideki Kondō (近藤秀樹)  
hkondo@rib.okayama-u.ac.jp
- Eugene V. Koonin  
koonin@ncbi.nlm.nih.gov
- Mart Krupovic  
mart.krupovic@pasteur.fr
- Kenji Kubota (久保田健嗣)  
kubotak@affrc.go.jp
- Gael Kurath  
gkurath@usgs.gov
- Lies Laenen  
lies.laenen@uzleuven.be
- Amy J. Lambert  
ahk7@cdc.gov
- Stanley L. Langevin  
slangevi@uw.edu
- Benhur Lee  
benhur.lee@mssm.edu

Elliot J. Lefkowitz  
elliottl@uab.edu

Eric M. Leroy  
eric.leroy@ird.fr

Shaorong Li (李邵蓉)  
Shaorong.Li@dfo-mpo.gc.ca

Longhui Li (李龙辉)  
871163211@qq.com

Jiànróng Lǐ (李建荣)  
li.926@osu.edu

Huazhen Liu (刘华珍)  
1369140609@qq.com

Igor S. Lukashevich  
isluka01@louisville.edu

Piet Maes  
piet.maes@kuleuven.be

William Marciel de Souza  
wmarciel@hotmail.com

Marco Marklewitz  
marklewitz@gmx.de; marklewitzm@who.int;  
marco.marklewitz@charite.de

Sergio H. Marshall  
sergio.marshall@pucv.cl

Shin-Yi L. Marzano  
shinyi.marzano@usda.gov

Sebastien Massart  
sebastien.massart@uliege.be

John W. McCauley  
john.mccauley@crick.ac.uk

Michael Melzer  
melzer@hawaii.edu

Nicole Mielke-Ehret  
nicole\_mielke@hotmail.com

Kristina M. Miller  
kmillersaunders@gmail.com

Tobi J. Ming  
Tobi.Ming@dfo-mpo.gc.ca

Ali Mirazimi  
Ali.Mirazimi@ki.se

Gideon J. Mordecai  
gidmord@gmail.com

Hans-Peter Mühlbach  
hpmuehlbach@gmx.net;  
muehlbach@botanik.uni-hamburg.de

Elke Mühlberger  
muehlber@bu.edu

Rayapati Naidu  
naidu.rayapati@wsu.edu

Tomohide Natsuaki (夏秋知英)  
natsuaki@cc.utsunomiya-u.ac.jp

José A. Navarro  
janavarr@ibmcp.upv.es

Sergey V. Netesov (Нетёсов Сергей Викторович)  
netesov.s@nsu.ru

Gabriele Neumann  
gabriele.neumann@wisc.edu

Norbert Nowotny  
Norbert.Nowotny@vetmeduni.ac.at

Márcio R. T. Nunes  
marcionunesbrasil@yahoo.com.br

Alejandro Olmedo-Velarde  
aolmedov@hawaii.edu

Gustavo Palacios  
gustavo.f.palacios.civ@mail.mil

Vicente Pallás  
vpallas@ibmcp.upv.es

Bernadett Pályi  
palyi.bernadett@nnk.gov.hu

Anna Papa (Άννα Παπά)  
annap.med@gmail.com

Sofia Paraskevopoulou (Σοφία Παρασκευοπούλου)  
sofia.paraskevopoulou@charite.de; sofiapara@hotmail.com

Adam C. Park  
aycpark@hawaii.edu; Adam.Y.Park@hawaii.gov

Colin R. Parrish  
crp3@cornell.edu

David A. Patterson  
David.Patterson@dfo-mpo.gc.ca

Alex Pauvolid-Corrêa  
pauvolid@gmail.com

Janusz T. Pawęska  
januszp@nicd.ac.za

Susan Payne  
SPayne@cvm.tamu.edu

Carlotta Peracchio  
carlotta10029@gmail.com

Daniel R. Pérez  
dperez1@uga.edu

Thomas S. Postler  
tp2405@cumc.columbia.edu

Liyong Qi (齐立莹)  
qiliying88@163.com

Sheli R. Radoshitzky  
SRadoshitzky@genevausa.org

Renato O. Resende  
rresende@unb.br

Carina A. Reyes  
carirey2306@gmail.com

Bertus K. Rima  
b.rima@qub.ac.uk

Gabriel Robles Luna  
garobles@gmail.com

Víctor Romanowski  
victor@biol.unlp.edu.ar; vromanowski@gmail.com

Paul Rota  
par1@CDC.GOV

Dennis Rubbenstroth  
Dennis.Rubbenstroth@fli.de

Luisa Rubino  
luisa.rubino@ipsp.cnr.it

Jonathan A. Runstadler  
Jonathan.Runstadler@tufts.edu

Sead Sabanadzovic  
SSabanadzovic@entomology.msstate.edu

Amadou Alpha Sall  
Amadou.SALL@pasteur.sn

Maria S. Salvato  
MSalvato@ihv.umaryland.edu

Rosemary Sang  
rsang@icipe.org

Takahide Sasaya (笹谷孝英)  
tsasaya@affrc.go.jp

Angela D. Schulze  
Angela.Schulze@dfo-mpo.gc.ca

Martin Schwemmler  
martin.schwemmler@uniklinik-freiburg.de

Mang Shi (施莽)  
shim23@mail.sysu.edu.cn

Xiāohóng Shí (石晓宏)  
Xiaohong.Shi@glasgow.ac.uk

Zhènglì Shí (石正丽)  
zlshi@wh.iov.cn

Yoshifumi Shimomoto (下元祥史)  
yoshifumi\_shimomoto@ken2.pref.kochi.lg.jp

Yukio Shirako  
yshirako@mac.com

Stuart G. Siddell  
stuart.siddell@bristol.ac.uk

Peter Simmonds  
peter.simmonds@ndm.ox.ac.uk

Manuela Sironi  
manuela.sironi@bp.lnf.it

Guy Smaghe  
Guy.Smaghe@UGent.be

Sophie Smither  
sjsmith@mail.dstl.gov.uk

Jin-Won Song (송진원)  
jwsong@korea.ac.kr

Kirsten Spann  
Kirsten.Spann@qut.edu.au

Jessica R. Spengler  
JSpengler@cdc.gov

Mark D. Stenglein  
Mark.Stenglein@colostate.edu

David M. Stone  
david.stone@cefas.co.uk

Jari Sugano  
suganoj@ctahr.hawaii.edu

Curtis A. Suttle  
suttle@science.ubc.ca

Amy Tabata  
Amy.Tabata@dfo-mpo.gc.ca

Ayato Takada (高田礼人)  
atakada@czc.hokudai.ac.jp

Shigeharu Takeuchi (竹内繁治)  
s-takeuchi@jppa.or.jp

David P. Tchouassi  
dtchouassi@icipe.org

Amy Teffer  
akteffer@gmail.com

Robert B. Tesh  
rbtesh22@gmail.com

Natalie J. Thornburg  
nax3@cdc.gov

Yasuhiro Tomitaka (富高保弘)  
yasut@affrc.go.jp

Keizō Tomonaga (朝長啓造)  
tomonaga.keizo.5r@kyoto-u.ac.jp;  
tomonaga@infront.kyoto-u.ac.jp

Noël Tordo  
ntordo@pasteur.fr

Baldwyn Torto  
btorto@icipe.org

Jonathan S. Towner  
jit8@cdc.gov

Shinya Tsuda (津田新哉)  
stsuda@hosei.ac.jp

Changchun Tu (涂长春)  
changchun\_tu@hotmail.com

Massimo Turina  
massimo.turina@ipsp.cnr.it

Ioannis E. Tzanetakis  
itzaneta@uark.edu

Janice Uchida  
juchida@hawaii.edu

Tomio Usugi (宇杉富雄)  
rg28887@kc5.so-net.ne.jp

Anna Maria Vaira  
annamaria.vaira@ipsp.cnr.it

Marta Vallino  
marta.vallino@ipsp.cnr.it

Bernadette van den Hoogen  
b.vandehoogen@erasmusmc.nl

Arvind Varsani  
arvind.varsani@asu.edu

Nikos Vasilakis (Νίκος Βασιλάκης)  
nivasila@utmb.edu

Martin Verbeek  
martin.verbeek@wur.nl



Susanne von Bargen  
susanne.von.bargen@agrar.hu-berlin.de

Jiro Wada (和田治郎)  
wadaj@niaid.nih.gov

Victoria Wahl  
victoria.wahl@st.dhs.gov

Peter J. Walker  
peter.walker@uq.edu.au

Lin-Fa Wang (王林发)  
linfa.wang@duke-nus.edu.sg

Guoping Wang (王国平)  
gpwang@mail.hzau.edu.cn

Yanxiang Wang (王雁翔)  
whni@mail.hzau.edu.cn

Yaqin Wang (王亚琴)  
yaqinwang@zju.edu.cn

Muhammad Waqas  
mwaqas223@outlook.com

Tàiyún Wèi (魏太云)  
weitaiyun@fafu.edu.cn

Shaohua Wen (温少华)  
33653989@qq.com

Anna E. Whitfield  
awhitfi@ncsu.edu

John V. Williams  
jvw@chp.edu

Yuri I. Wolf  
wolf@ncbi.nlm.nih.gov

Jiangxiang Wu (吴建祥)  
wujx@zju.edu.cn

Lei Xu (徐雷)  
xulei\_1209@163.com

Hironobu Yanagisawa (柳澤広宣)  
hironobu\_yanagisa090@maff.go.jp

Caixia Yang (杨彩霞)  
xueyang27@126.com

Zuokun Yang (杨作坤)  
408341001@qq.com

F. Murilo Zerbini  
zerbini@ufv.br

Lifeng Zhai (翟立峰)  
254524946@qq.com

Yong-Zhen Zhang (张永振)  
zhangyongzhen@icdc.cn; zhangyongzhen@shphc.org.cn

Song Zhang (张松)  
qq371260@email.swu.edu.cn

Jinguo Zhang (张靖国)  
705868726@qq.com

Zhe Zhang (张哲)  
2368188603@qq.com

Xueping Zhou (周雪平)  
zzhou@zju.edu.cn

- 1 Integrated Research Facility at Fort Detrick, National Institute of Allergy and Infectious Diseases, National Institutes of Health, Frederick, MD, USA
- 2 United States Department of Agriculture, Agricultural Research Service, US Horticultural Research Laboratory, Fort Pierce, FL, USA
- 3 Division Phytomedicine, Faculty of Life Sciences, Humboldt-Universität zu Berlin, Berlin, Germany
- 4 D.I. Ivanovsky Institute of Virology of N.F. Gamaleya National Center on Epidemiology and Microbiology of Ministry of Health of Russian Federation, Moscow, Russia
- 5 Department of Pathology and Immunology, Washington University School of Medicine, St. Louis, MO, USA
- 6 Faculty of Medicine, University of Ljubljana, Ljubljana, Slovenia
- 7 Centro de Biotecnología y Genómica de Plantas, Universidad Politécnica de Madrid—Instituto Nacional de Investigación y Tecnología Agraria y Alimentaria, Campus de Montegancedo, Pozuelo de Alarcón, Madrid, Spain
- 8 Center for Ecology of Infectious Diseases, Department of Infectious Diseases, Department of Epidemiology and Biostatistics, Institute of Bioinformatics, University of Georgia, Athens, GA, USA
- 9 Institute of Novel and Emerging Infectious Diseases, Friedrich-Loeffler-Institut, Federal Research Institute for Animal Health, Greifswald-Insel Riems, Germany
- 10 Department of Biological Sciences, Mississippi State University, Mississippi State, MS, USA
- 11 Center for Microbial Pathogenesis, Institute for Biomedical Sciences, Georgia State University, Atlanta, GA, USA
- 12 Edge BioInnovation Consulting and Mgt, Frederick, MD, USA
- 13 Institute of Diagnostic Virology, Friedrich-Loeffler-Institut, Greifswald-Insel Riems, Germany
- 14 UFMa, INTA-CONICET, Cordoba, Argentina
- 15 Genomics and Bioinformatics Department, Biological Defense Research Directorate, Naval Medical Research Center—Frederick, Fort Detrick, Frederick, MD, USA
- 16 University of Texas Medical Branch, Galveston, TX, USA
- 17 Viral Special Pathogens Branch, Division of High-Consequence Pathogens and Pathology, Centers for Disease Control and Prevention, Atlanta, GA, USA
- 18 School of Veterinary Medicine, One Health Institute, University of California, Davis, Davis, CA, USA
- 19 Department of Microbiology, Immunology and Pathology, Colorado State University, Fort Collins, CO, USA
- 20 Commonwealth Scientific and Industrial Research Organisation (CSIRO), Australian Centre for Disease Preparedness, Geelong, VIC, Australia
- 21 NIBIO-Norwegian Institute of Bioeconomy Research, Oslo, Norway
- 22 School of Health and Life Sciences, Teesside University, Middlesbrough TS1 3BX, UK
- 23 University of Hawaii, Honolulu, HI, USA

- 24 University of New Mexico Health Sciences Center, Albuquerque, NM, USA
- 25 University of Washington, Seattle, WA, USA
- 26 Center for Infection and Immunity, and Department of Epidemiology, Mailman School of Public Health, Columbia University, New York, NY, USA
- 27 Laboratory of Ploufragan-Plouzané-Niort, French Agency for Food, Environmental and Occupational Health Safety ANSES, Ploufragan, France
- 28 School of Plant Sciences, University of Arizona, Tucson, AZ, USA
- 29 RNA Viruses Section, Laboratory of Infectious Diseases, National Institute of Allergy and Infectious Diseases, National Institutes of Health, Bethesda, MD, USA
- 30 Department of Molecular Biology and Biochemistry, University of California, Irvine, Irvine, CA, USA
- 31 Galveston National Laboratory, The University of Texas Medical Branch at Galveston, Galveston, TX, USA
- 32 Division of Virology, National Health Laboratory Service and Division of Virology, University of the Free State, Bloemfontein, Republic of South Africa
- 33 Colorado State University, Fort Collins, CO, USA
- 34 National Citrus Engineering and Technology Research Center, Citrus Research Institute, Southwest University, Beibei, Chongqing, People's Republic of China
- 35 Respiratory Virus and Influenza Unit, National Microbiology Center, Instituto de Salud Carlos III, Madrid, Spain
- 36 Department of Microbiology and Immunology, Albert Einstein College of Medicine, Bronx, NY, USA
- 37 Unité des Virus Emergents (Aix-Marseille Univ, IRD 190, Inserm 1207, IHU Méditerranée Infection), Marseille, France
- 38 State Key Laboratory of Rice Biology, Institute of Biotechnology, Zhejiang University, Hangzhou, People's Republic of China
- 39 Grape and Persimmon Research Station, Institute of Fruit tree and Tea Science, NARO, Higashihiroshima, Hiroshima, Japan
- 40 Institute for Sustainable Plant Protection, National Research Council of Italy (CNR), Strada delle Cacce 73, 10135 Turin, Italy
- 41 Plant Breeding Genetics and Biotechnology Division and International Rice Research Institute, Los Baños, Philippines
- 42 Les Mandinaux, Le Grand Madieu, France
- 43 Clinical Monitoring Research Program Directorate, Frederick National Laboratory for Cancer Research, Frederick, MD, USA
- 44 CIDEFI, Facultad de Ciencias Agrarias y Forestales, Universidad de La Plata, La Plata, Argentina
- 45 Department of Immunology and Microbiology IMM-6, The Scripps Research Institute, La Jolla, CA, USA
- 46 Department Viroscience, Erasmus MC, University Medical Centre Rotterdam, Rotterdam, The Netherlands
- 47 Centro de Investigaciones Agropecuarias, Instituto Nacional de Tecnología Agropecuaria (IPAVE-CIAP-INTA), Córdoba, Argentina
- 48 UMR 1161 Virology ANSES/INRAE/ENVA, ANSES Animal Health Laboratory, 94704 Maisons-Alfort, France
- 49 Pacific Salmon Foundation, Vancouver, BC, Canada
- 50 United States Army Medical Research Institute of Infectious Diseases, Fort Detrick, Frederick, MD, USA
- 51 Istituto per la Protezione Sostenibile delle Piante, Consiglio Nazionale delle Ricerche, Bari, Italy
- 52 Queensland Alliance for Agriculture and Food Innovation, The University of Queensland, St. Lucia, QLD, Australia
- 53 CIHEAM, Istituto Agronomico Mediterraneo di Bari, Valenzano, Italy
- 54 Institute of Virology, Philipps University Marburg, Marburg, Germany
- 55 Zoonotic Diseases and Special Pathogens, National Microbiology Laboratory, Public Health Agency of Canada, Winnipeg, MB, Canada
- 56 Institute of Virology, Charité-Universitätsmedizin Berlin, Corporate Member of Freie Universität Berlin, Humboldt Universität Berlin, Berlin, Germany
- 57 Animal Production and Health Laboratory, Joint FAO/IAEA Division of Nuclear Techniques in Food and Agriculture, Department of Nuclear Sciences and Applications, International Atomic Energy Agency, Vienna, Austria
- 58 School of Medicine, University of Pittsburgh, Pittsburgh, PA, USA
- 59 Robert Koch Institut, Berlin, Germany
- 60 School of Life Sciences, University of Warwick, Coventry, UK
- 61 Department of Molecular Medicine, Mayo Clinic, Rochester, MN, USA
- 62 Istituto Agronomico Mediterraneo di Bari, Valenzano, Italy
- 63 Virology Unit, Department of Medical Microbiology, Hacettepe University Faculty of Medicine, Ankara, Turkey
- 64 Animal and Plant Health Agency, Weybridge, Surrey, UK
- 65 Institute for sustainable plant protection, CNR, Turin, Italy
- 66 World Health Organization, Geneva, Switzerland
- 67 Plant Virology Department, Institute of Plant Molecular Biology, Biology Centre CAS, Ceske Budejovice, Czech Republic
- 68 Embrapa Cassava and Fruits, Cruz das Almas, Bahia, Brazil
- 69 College of Life Science and Engineering, Shenyang University, Shenyang, Liaoning, People's Republic of China
- 70 Albrecht Daniel Thaer-Institute for Crop and Animal Sciences, Division Phytomedicine, Humboldt-Universität zu Berlin, Berlin, Germany
- 71 Institute of Biochemistry and Biotechnology, Martin Luther University Halle-Wittenberg, Halle/Saale, Germany
- 72 Instituto de Biotecnología y Biología Molecular, Facultad de Ciencias Exactas, I, CONICET UNLP, La Plata, Argentina

- 73 Icahn School of Medicine at Mount Sinai, New York, NY, USA
- 74 Landwirtschaft und Flurneuordnung, Landesamt für ländliche Entwicklung, Frankfurt (Oder), Germany
- 75 Department of Microbiology and Immunology, Division of Biomedical Graduate Research Organization, School of Medicine, Georgetown University, Washington, DC 20057, USA
- 76 Department of Microbiology and National Emerging Infectious Diseases Laboratories, Boston University School of Medicine, Boston, MA, USA
- 77 Department of Pathobiological Sciences, School of Veterinary Medicine, University of Wisconsin-Madison, Madison, WI, USA
- 78 Institute of Novel and Emerging Infectious Diseases, Friedrich-Loeffler-Institut, Greifswald-Insel Riems, Germany
- 79 WHO Collaborating Centre for Arboviruses and Hemorrhagic Fever Reference and Research, Department of Virology, Bernhard-Nocht Institute for Tropical Medicine, Hamburg, Germany
- 80 Australian Infectious Diseases Research Centre, School of Chemistry and Molecular Biosciences, The University of Queensland, Brisbane, Australia
- 81 Floral and Nursery Plants Research Unit, United States Department of Agriculture, Agricultural Research Service, USNA, Beltsville, MD, USA
- 82 Department of Virology, University of Helsinki, Medicum, Helsinki, Finland
- 83 London School of Hygiene and Tropical Medicine, London, UK
- 84 Analysis Center of Agrobiological and Environmental Sciences, Zhejiang University, Hangzhou, People's Republic of China
- 85 Key Lab of Plant Pathology of Hubei Province, College of Plant Science and Technology, Huazhong Agricultural University, Wuhan, People's Republic of China
- 86 Hakubi Center for Advanced Research, Kyoto University, Kyoto, Japan
- 87 Centers for Disease Control and Prevention, Fort Collins, CO, USA
- 88 School of Veterinary Medicine, Murdoch University, Murdoch, WA, Australia
- 89 Entomology and Plant Pathology, North Carolina State University, Raleigh, NC, USA
- 90 Silva Lapponica, Rovaniemi, Finland
- 91 State Key Laboratory of Agricultural Microbiology, Huazhong Agricultural University, Wuhan, Hubei Province, People's Republic of China
- 92 Rice Breeding Innovations Platform, International Rice Research Institute, Los Baños, Laguna, Philippines
- 93 Institute of Virology, Charité-Universitätsmedizin Berlin, Corporate Member of Free University Berlin, Humboldt-University Berlin, and Berlin Institute of Health, Berlin, Germany
- 94 Department of Clinical Plant Science, Faculty of Bioscience and Applied Chemistry, Hosei University, Koganei, Tokyo, Japan
- 95 Pacific Biological Station, Fisheries and Oceans Canada, Nanaimo, BC, Canada
- 96 Institute of Virology, Biomedical Research Center, Slovak Academy of Sciences, Bratislava, Slovakia
- 97 Center for Infectious Medicine, Department of Medicine Huddinge, Karolinska Institutet, Karolinska University Hospital, Stockholm, Sweden
- 98 Institute of Plant Science and Resources, Okayama University, Kurashiki, Japan
- 99 National Center for Biotechnology Information, National Library of Medicine, National Institutes of Health, Bethesda, MD, USA
- 100 Archaeal Virology Unit, Institut Pasteur, Paris, France
- 101 Central Region Agricultural Research Center, NARO, Tsukuba, Ibaraki, Japan
- 102 US Geological Survey Western Fisheries Research Center, Seattle, WA, USA
- 103 KU Leuven, Rega Institute, Zoonotic Infectious Diseases unit, Leuven, Belgium
- 104 Department of Microbiology, University of Washington, Washington, USA
- 105 Department of Microbiology, Icahn School of Medicine at Mount Sinai, New York, NY, USA
- 106 The University of Alabama at Birmingham, Birmingham, AL, USA
- 107 MIVEGEC (IRD-CNRS-Montpellier university) Unit, French National Research Institute for Sustainable Development (IRD), Montpellier, France
- 108 Fisheries and Oceans Canada, Pacific Biological Station, 3190 Hammond Bay Road, Nanaimo, BC V9T 6N7, Canada
- 109 Department of Veterinary Biosciences, College of Veterinary Medicine, The Ohio State University, Columbus, OH, USA
- 110 Department of Pharmacology and Toxicology, School of Medicine, and the Center for Predictive Medicine for Biodefense and Emerging Infectious Diseases, University of Louisville, Louisville, KY, USA
- 111 Virology Research Center, University of São Paulo, Ribeirão Preto, Brazil
- 112 Pontificia Universidad Católica de Valparaíso, Campus Curauma, Valparaíso, Chile
- 113 United States Department of Agriculture, Agricultural Research Service, Washington, USA
- 114 Gembloux Agro-Bio Tech, TERRA, Plant Pathology Laboratory, Liège University, Liege, Belgium
- 115 Worldwide Influenza Centre, Francis Crick Institute, London, UK
- 116 Plant and Environmental Protection Sciences, University of Hawai'i at Mānoa, Honolulu, HI, USA
- 117 Biocentre Klein Flottbek, University of Hamburg, Hamburg, Germany

- 118 Molecular Genetics, Pacific Biological Station, Department of Fisheries and Oceans, Nanaimo, Canada
- 119 Folkhalsomyndigheten, Stockholm, Sweden
- 120 Department of Medicine, University of British Columbia, Vancouver, Canada
- 121 Department of Plant Pathology, Irrigated Agricultural Research and Extension Center, Washington State University, Prosser, WA, USA
- 122 School of Agriculture, Utsunomiya University, Utsunomiya, Tochigi, Japan
- 123 Instituto de Biología Molecular y Celular de Plantas, Universitat Politècnica de València-Consejo Superior de Investigaciones Científicas, Valencia, Spain
- 124 Novosibirsk State University, Novosibirsk, Novosibirsk Oblast, Russia
- 125 Influenza Research Institute, Department of Pathobiological Sciences, University of Wisconsin-Madison, Madison, WI, USA
- 126 Institute of Virology, University of Veterinary Medicine Vienna, Vienna, Austria
- 127 Instituto de Biología Molecular y Celular de Plantas (IBMCP), Consejo Superior de Investigaciones Científicas-Universidad Politécnica de Valencia, Valencia, Spain
- 128 National Biosafety Laboratory, National Public Health Center, Budapest, Hungary
- 129 National Reference Centre for Arboviruses and Haemorrhagic Fever Viruses, Department of Microbiology, Medical School, Aristotle University of Thessaloniki, Thessaloniki, Greece
- 130 Institute of Virology, Charité-Universitätsmedizin Berlin, corporate member of Freie Universität Berlin, Humboldt-Universität zu Berlin, and Berlin Institute of Health, Berlin, Germany
- 131 Baker Institute for Animal Health, College of Veterinary Medicine, Cornell University, Ithaca, NY, USA
- 132 Fisheries and Oceans Canada, Resource and Environmental Management, Simon Fraser University, Burnaby, BC, Canada
- 133 Department of Veterinary Integrated Biosciences and Department of Entomology, Texas A&M University, College Station, USA
- 134 Center for Emerging Zoonotic and Parasitic Diseases, National Institute for Communicable Diseases of the National Health Laboratory Service, Sandringham-Johannesburg, Gauteng, South Africa
- 135 Department of Veterinary Pathobiology, College of Veterinary Medicine and Biomedical Sciences, Texas A&M University, College Station, TX, USA
- 136 Department of Population Health, College of Veterinary Medicine, University of Georgia, Athens, GA, USA
- 137 Department of Microbiology and Immunology, Vagelos College of Physicians and Surgeons, Columbia University Irving Medical Center, New York, NY 10032, USA
- 138 Jiangxi Academy of Agricultural Sciences, Nanchang, Jiangxi, People's Republic of China
- 139 The Geneva Foundation, Tacoma, WA, USA
- 140 Departamento de Biologia Celular, Universidade de Brasília, Brasília, Brazil
- 141 Instituto de Biotecnología y Biología Molecular, CCT-La Plata, CONICET-UNLP, La Plata, Buenos Aires, Argentina
- 142 Centre for Experimental Medicine, School of Medicine, Dentistry and Biomedical Sciences, The Queen's University of Belfast, Belfast, Northern Ireland, UK
- 143 Instituto de Biotecnología y Biología Molecular, Centro Científico Tecnológico-La Plata, Consejo Nacional de Investigaciones Científico Tecnológico—Universidad Nacional de La Plata, La Plata, Argentina
- 144 Institute of Diagnostic Virology, Friedrich-Loeffler-Institut, Greifswald-Insel Riems, Germany
- 145 Consiglio Nazionale delle Ricerche, Istituto per la Protezione Sostenibile delle Piante, Bari, Italy
- 146 Department of Infectious Disease and Global Health, Tufts University Cummings School of Veterinary Medicine, 200 Westboro Road, North Grafton, MA 01536, USA
- 147 Department of Biochemistry, Molecular Biology, Entomology and Plant Pathology, Mississippi State University, Mississippi State, MS, USA
- 148 Institute of Human Virology, University of Maryland School of Medicine, Baltimore, MA, USA
- 149 International Centre of Insect Physiology and Ecology, Nairobi, Kenya
- 150 Institute for Plant Protection, National Agriculture and Food Research Organization, Tsukuba, Japan
- 151 Molecular Genetics Lab, Pacific Biological Station, Fisheries and Oceans Canada, Nanaimo, BC, Canada
- 152 Faculty of Medicine, University Medical Center-University Freiburg, Freiburg, Germany
- 153 Sun Yat-sen University, Shenzhen, People's Republic of China
- 154 MRC-University of Glasgow Centre for Virus Research, Glasgow, Scotland, UK
- 155 CAS Key Laboratory of Special Pathogens, Wuhan Institute of Virology, Center for Biosafety Mega-Science, Chinese Academy of Sciences, Wuhan, Hubei, People's Republic of China
- 156 Kochi Agricultural Research Center, Nankoku, Kochi, Japan
- 157 Asian Center for Bioresources and Environmental Sciences, University of Tokyo, Tokyo, Japan
- 158 School of Cellular and Molecular Medicine, University of Bristol, Bristol, UK
- 159 Nuffield Department of Medicine, University of Oxford, Oxford, UK
- 160 Bioinformatics Unit, Scientific Institute IRCCS "E. Medea", Bosisio Parini, Italy
- 161 Faculty of Bioscience Engineering, Department of Plants and Crops, Ghent University, Ghent, Belgium
- 162 CBR Division, DSTL, Porton Down, Salisbury, Wiltshire, UK

- 163 Department of Microbiology, College of Medicine, Korea University, Seoul, Republic of Korea
- 164 School of Biomedical Sciences, Faculty of Health, Queensland University of Technology, Brisbane, QLD, Australia
- 165 Viral Special Pathogens Branch, Division of High-Consequence Pathogens and Pathology, Centers for Disease Control and Prevention, Atlanta, USA
- 166 Department of Microbiology, Immunology, and Pathology, College of Veterinary Medicine and Biomedical Sciences, Colorado State University, Fort Collins, CO, USA
- 167 Centre for Environment, Fisheries and Aquaculture Science, Weymouth, Dorset, UK
- 168 Departments of Earth, Ocean and Atmospheric Sciences, Microbiology and Immunology, and Botany, and the Institute for Oceans and Fisheries, University of British Columbia, Vancouver, Canada
- 169 Division of Global Epidemiology, Research Center for Zoonosis Control, Hokkaido University, Sapporo, Japan
- 170 Japan Plant Protection Association Kochi Experiment Station, Konan, Kochi, Japan
- 171 Department of Forest Sciences, University of British Columbia, Vancouver, Canada
- 172 Department of Pathology, The University of Texas Medical Branch, Galveston, TX, USA
- 173 Centers for Disease Control and Prevention, Atlanta, GA, USA
- 174 Kyushu Okinawa Agricultural Research Center, NARO, Koshi, Kumamoto, Japan
- 175 Institute for Frontier Life and Medical Sciences (inFront), , Kyoto University, Kyoto, Japan
- 176 Unit  des Strat gies Antivirales, WHO Collaborative Centre for Viral Haemorrhagic Fevers and Arboviruses, OIE Reference Laboratory for RVFV & CCHFV, Institut Pasteur, Paris, France
- 177 Viral Special Pathogens Branch, Division of High-Consequence Pathogens Pathology, National Center for Emerging and Zoonotic Infectious Diseases, Centers for Disease Control and Prevention, Atlanta, GA, USA
- 178 Changchun Veterinary Research Institute, Chinese Academy of Agricultural Sciences, Changchun, Jilin Province, People's Republic of China
- 179 National Institute of Optics, National Research Council of Italy (INO-CNR), Via Branze 45, 25123Brescia, Italy
- 180 Department of Entomology and Plant Pathology, Division of Agriculture, University of Arkansas System, Fayetteville, AR 72701, USA
- 181 Department of Viroscience, Erasmus MC, University Medical Centre Rotterdam, Rotterdam, The Netherlands
- 182 The Bidesign Center for Fundamental and Applied Microbiomics, Center for Evolution and Medicine School of Life Sciences, Arizona State University, Tempe, AZ, USA
- 183 Wageningen University and Research, Biointeractions and Plant Health, Wageningen, The Netherlands
- 184 National Biodefense Analysis and Countermeasures Center, Fort Detrick, Frederick, MD, USA
- 185 School of Chemistry and Molecular Biosciences, University of Queensland, St. Lucia, QLD, Australia
- 186 Programme in Emerging Infectious Diseases, Duke-NUS Medical School, Singapore, Singapore
- 187 Key Laboratory of Crop Disease Monitoring and Safety Control in Hubei Province, College of Plant Science and Technology, Huazhong Agricultural University, Wuhan, Hubei, People's Republic of China
- 188 Fujian Province Key Laboratory of Plant Virology, Institute of Plant Virology, Fujian Agriculture and Forestry University, Fuzhou, Fujian, People's Republic of China
- 189 Department of Entomology and Plant Pathology, North Carolina State University, Raleigh, NC, USA
- 190 School of Medicine, University of Pittsburgh, Pittsburgh, PA, USA
- 191 Narita Branch, Yokohama Plant Protection Station, Narita, Chiba, Japan
- 192 Departamento de Fitopatologia, Instituto de Biotecnologia Aplicada   Agropecu ria, Universidade Federal de Viosa, Viosa, Minas Gerais, Brazil
- 193 Key Laboratory of Horticultural Plant Biology, Ministry of Education, Wuhan 430070, Hubei , People's Republic of China
- 194 National Sand Pear Germplasm Repository in Wuchang, Research Institute of Fruit and Tea, Hubei Academy of Agricultural Science, Wuhan, Hubei, People's Republic of China
- 195 State Key Laboratory for Biology of Plant Diseases and Insect Pests, Institute of Plant Protection, Chinese Academy of Agricultural Sciences, Beijing, People's Republic of China
- 196 Institut Pasteur de Guin e, Conakry, Guinea
- 197 Departamento de Biotecnolog a-Biolog a Vegetal, Escuela T cnica Superior de Ingenier a Agron mica, Alimentaria y de Biosistemas, Universidad Polit cnica de Madrid, Madrid, Spain
- 198 National Horizons Centre, Teesside University, Darlington DL1 1HG, UK
- 199 US Geological Survey, Western Fisheries Research Center, Seattle, WA, USA
- 200 Unidad de Fitopatolog a y Modelizaci n Agr cola, Consejo Nacional de Investigaciones Cient ficas y T cnicas (UFYMA-CONICET), C rdoba, Argentina
- 201 Centaurus Biotechnologies, CTP, Manassas, VA, USA
- 202 Institute of Veterinary Pathology, Vetsuisse Faculty, University of Zurich, Zurich, Switzerland
- 203 Division of Veterinary Sciences, Graduate School of Life and Environmental Sciences, Osaka Prefecture University, Izumisano, Japan
- 204 German Centre for Infection Research, Berlin, Germany
- 205 Department of Laboratory Medicine, University Hospitals Leuven, Leuven, Belgium

- <sup>206</sup> German Center for Infection Research (DZIF), Berlin, Germany
- <sup>207</sup> College of Medicine, Mohammed Bin Rashid University of Medicine and Health Sciences, Dubai, United Arab Emirates
- <sup>208</sup> Hawaii Department of Agriculture, Honolulu, HI, USA
- <sup>209</sup> Laboratory of Respiratory Viruses and Measles, Fiocruz, Rio de Janeiro, Brazil
- <sup>210</sup> Structural Biology Research Unit, Department of Clinical Laboratory Sciences, University of Cape Town, Observatory, Cape Town, South Africa
- <sup>211</sup> Zoology Department, National Museums of Kenya, Nairobi, Kenya
- <sup>212</sup> Jomo Kenyatta University of Agriculture & Technology, Nairobi, Kenya
- <sup>213</sup> School of Veterinary Medicine, St. George's University, True Blue, Grenada
- <sup>214</sup> National Institute for Viral Disease Control and Prevention, Chinese Center for Disease Control and Prevention, Beijing, People's Republic of China
- <sup>215</sup> Department of Infectious Diseases, Yamagata University Faculty of Medicine, Yamagata, Japan
- <sup>216</sup> Department of Microbiology, Immunology and Infectious Diseases, Université Laval, Quebec City, Canada
- <sup>217</sup> Evandro Chagas Institute, Ministry of Health, Pará, Brazil
- <sup>218</sup> National Center for Immunization and Respiratory Diseases, Centers for Disease Control and Prevention, Atlanta, GA, USA
- <sup>219</sup> Institut Pasteur de Dakar, Dakar, Senegal
- <sup>220</sup> National Institute for Communicable Disease Control and Prevention, Chinese Center for Disease Control and Prevention, Changping, Beijing, People's Republic of China
- <sup>221</sup> Shanghai Public Health Clinical Center & Institutes of Biomedical Sciences, Fudan University, Shanghai, People's Republic of China