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Taxonomy of the order *Mononegavirales*: second update 2018

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Abstract

In October 2018, the order *Mononegavirales* was amended by the establishment of three new families and three new genera, abolishment of two genera, and creation of 28 novel species. This article presents the updated taxonomy of the order *Mononegavirales* as now accepted by the International Committee on Taxonomy of Viruses (ICTV).

Keywords

artovirid; Artoviridae; artovirus; bornavirid; Bornaviridae; bornavirus; filovirid; Filoviridae; filovirus; ICTV; International Committee on Taxonomy of Viruses; lispivirid; Lispiviridae; lispivirus; mononegavirad; Mononegavirales; mononegavirus; mymonavirid;; Mymonaviridae; mymonavirus; nyamivirid; Nyamiviridae; nyamivirus; paramyxovirid; Paramyxoviridae; paramyxovirus; pneumovirid; Pneumoviridae; pneumovirus; rhabdovirid; Rhabdoviridae; rhabdovirus; sunvirid; Sunviridae; sunvirus; virus classification; virus nomenclature; virus taxonomy; xinmovirid; Xinmoviridae; xinmovirus

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Compliance with ethical standards

Conflict of interest

The authors declare no conflicts of interest.

Ethical approval

This article does not contain any studies with human participants or animals performed by any of the authors.

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Introduction

The virus order *Mononegavirales* was established in 1991 to accommodate related viruses with nonsegmented, linear, single-stranded, negative-sense RNA genomes classified into three families [12, 13]. According to the previous ratification vote held in March 2018, the order included eight families [7]. Amended/emended order descriptions were published in 1995 [4], 1997 [14], 2000 [15], 2005 [16], 2011 [5], 2016 [1], 2017 [2], and March 2018 [3]. Here, we present the changes that were proposed via an official ICTV taxonomic proposal (TaxoProp 2017.016M.A.v1.Mononegavirales_rev) at <http://www.ictvonline.org/> in 2017 and were accepted by the ICTV Executive Committee (EC) in October 2018. These changes are now part of the official ICTV taxonomy as of October 2018.

Taxonomic changes at the order rank

In October 2018, the order *Mononegavirales* was expanded by three families. The family *Artoviridae* was created for the established genus *Peropuvirus* (moved out of *Nyamiviridae*) and six new species for B ihăi barnacle virus 8 (BhBV-8), B ihăi rhabdo-like virus 1 (BhRLV-1), B ihăi rhabdo-like virus 2 (BhRLV-2), Húb i rhabdo-like virus 5 (HbRLV5), Húb i rhabdo-like virus 6 (HbRLV-6), and Húb i rhabdo-like virus 8 (HbRLV-8), all discovered in invertebrates [8, 17]. The family *Lispiviridae* was established to include the floating genus *Arlivirus*; inclusion of the novel species *Hubei arlivirus*, *Odonate arlivirus*, and *Wuchang arlivirus* for Húb i rhabdo-like virus 3 (HbRLV-3), Húb i odonate virus 10 (HbOV-10), and Wŭch ng romanomermis nematode virus 2 (WcRNV-2) discovered in invertebrates; and inclusion of the (renamed) species of the now abandoned free-floating genera *Chengtivirus* and *Wastrivirus* [8, 17]. The family *Xinmoviridae* was established for the floating genus *Anphevirus*, and six novel species were added to the genus for Bolahun virus (BLHV), *Drosophila unispina virus 1* (DuniV-1), Húb i diptera virus 11 (HbDV-11), Húb i ortho tera virus 5 (HbOV-5), Húb i rhabdo-like virus 7 (HbRLV-7), and Shu ngàò fly virus 2 (SgFV-2) discovered in invertebrates [6, 8, 9, 17].

Taxonomic changes at the family rank

Bornaviridae

In October 2018, no changes were made at the family rank.

Filoviridae

In October 2018, no changes were made at the family rank.

Mymonaviridae

In October 2018, six new species were added to the genus *Sclerotimonavirus* for Húb i rhabdo-like virus 4 (HbRLV-4), *Sclerotinia sclerotiorum* negative-stranded RNA virus 4 (SsNSRV-4), soybean leaf-associated negative-stranded RNA virus 1 (SLaNSRV-1), soybean leaf-associated negative-stranded RNA virus 2 (SLaNSRV-2), soybean leaf-associated negative-stranded RNA virus 3 (SLaNSRV-3), and soybean leaf-associated negative-stranded

RNA virus 4 (SLaNSRV-4) associated with soybean leaves, invertebrates, and fungi [10, 11, 17].

Nyamiviridae

In October 2018, the free-floating genus *Crustavirus* was included in the family and two novel species were added to that genus for B i h ă i rhabdo-like virus 6 (BhRLV-6) and W n l i n g crustacean virus 12 (WICV-12) discovered in invertebrates. One genus, *Peropuvirus*, was moved from the family into the new family *Artoviridae*. Finally, the family was expanded by three novel genera that include a total of five new species for B i h ă i rhabdo-like virus 3 (BhRLV-3), B i h ă i rhabdo-like virus 4 (BhRLV-4), B i h ă i rhabdo-like virus 5 (BhRLV-5), Orinoco virus (ONCV), and W n z h u tapeworm virus 1 (WzTWV-1) discovered in invertebrates [8, 17].

Paramyxoviridae

In October 2018, no changes were made at the family rank.

Pneumoviridae

In October 2018, no changes were made at the family rank.

Rhabdoviridae

In October 2018, no changes were made at the family rank.

Sunviridae

In October 2018, no changes were made at the family rank.

Summary

A summary of the current, ICTV-accepted taxonomy of the order *Mononegavirales* is presented in Table 1.

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ICTV-accepted taxonomy of the order *Mononegavirales* as of October 2018. Listed are all mononegaviruses that are classified into species.

Table 1

Genus	Species [¶]	Virus (Abbreviation) [¶]
Family <i>Arteriviridae</i>		
<i>Peropuvirus</i>	<i>Barnacle peropuvirus</i>	B ihai barnacle virus 8 (BhBV-8)
	<i>Beilhai peropuvirus</i>	B ihai rhabdo-like virus 1 (BhRLV-1)
	<i>Hubei peropuvirus</i>	Húb i rhabdo-like virus 6 (HbRLV-6)
	<i>Odonate peropuvirus</i>	Húb i rhabdo-like virus 8 (HbRLV-8)
	<i>Pillworm peropuvirus</i>	Húb i rhabdo-like virus 5 (HbRLV-5)
	<i>Pteromalus puparum peropuvirus</i> *	Pteromalus puparum negative-strand RNA virus 1 (PpNSRV-1)
	<i>Woodlouse peropuvirus</i>	B ihai 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>Orthobornavirus</i>	<i>Elapid 1 orthobornavirus</i>	Loveidge'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 (CbBV-1)
		canary bornavirus 2 (CbBV-2)
		canary bornavirus 3 (CbBV-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)

Genus	Species [¶]	Virus (Abbreviation) [¶]
		aquatic bird bornavirus 2 (ABBV-2)
Family Filoviridae		
<i>Cuevavirus</i>	<i>Lloviu cuevavirus</i> *	Lloviu virus (LLOY)
<i>Ebolavirus</i>	<i>Bundibugyo ebolavirus</i>	Bundibugyo virus (BDBY)
	<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)
<i>Marburgvirus</i>	<i>Marburg marburgvirus</i> *	Marburg virus (MARV)
		Ravn virus (RAVV)
Family Lysipviridae		
<i>Arivirus</i>	<i>Hubei arivirus</i>	Húb 1 rhabdo-like virus 3 (HbRLV-3)
	<i>Lishi arivirus</i> *	Lishí spider virus 2 (LSV-2)
	<i>Odonate arivirus</i>	Húb 1 odonate virus 10 (HbOV-10)
	<i>Gerrid arivirus</i>	S nxiá water strider virus 4 (SxWSV-4)
	<i>Tácheng arivirus</i>	T chéng tick virus 6 (TcTV-6)
	<i>Wuchang arivirus</i>	Wúch ng romanomermis nematode virus 2 (WcRNV-2)
Family Myomonaviridae		
<i>Sclerotimonavirus</i>	<i>Dadou sclerotimonavirus</i>	soybean leaf-associated negative-stranded RNA virus 3 (SLaNSRV-3)
	<i>Drop sclerotimonavirus</i>	Sclerotinia sclerotiorum negative-stranded RNA virus 2 (SsNSRV-2)
		Sclerotinia sclerotiorum negative-stranded RNA virus 4 (SsNSRV-4)
	<i>Glycine sclerotimonavirus</i>	Fusarium graminearum negative-stranded RNA virus 1 (FgNSRV-1)
		soybean leaf-associated negative-stranded RNA virus 1 (SLaNSRV-1)
	<i>Hubei sclerotimonavirus</i>	Húb 1 rhabdo-like virus 4 (HbRLV-4)
	<i>Illinois sclerotimonavirus</i>	soybean leaf-associated negative-stranded RNA virus 2 (SLaNSRV-2)
	<i>Phyllosphere sclerotimonavirus</i>	soybean leaf-associated negative-stranded RNA virus 4 (SLaNSRV-4)
	<i>Sclerotinia sclerotimonavirus</i> *	Sclerotinia sclerotiorum negative-stranded RNA virus 1 (SsNSRV-1)
		Sclerotinia sclerotiorum negative-stranded RNA virus 3 (SsNSRV-3)

Genus	Species	Virus (Abbreviation)
Family Nyamiviridae		
<i>Berhavirus</i>	<i>Berhai berhavirus</i>	B ihai rhabdo-like virus 4 (BhRLV-4)
	<i>Echinoderm berhavirus</i>	B ihai rhabdo-like virus 5 (BhRLV-5)
	<i>Sipunculid berhavirus*</i>	B ihai rhabdo-like virus 3 (BhRLV-3)
<i>Crustavirus</i>	<i>Berhai crustavirus</i>	B ihai rhabdo-like virus 6 (BhRLV-6)
	<i>Wenling crustavirus</i>	W nling crustacean virus 12 (WzCV-12)
	<i>Wenzhou crustavirus*</i>	W nzh u crab virus 1 (WzCV-1)
<i>Nyavirus</i>	<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>Socyyvirus</i>	<i>Soybean cyst nematode socyyvirus*</i>	soybean cyst nematode virus 1 (SbCNCV-1)
<i>Tapewormvirus</i>	<i>Tapeworm tapewormvirus*</i>	W nzh u tapeworm virus 1 (WzTWV-1)
Family Paramyxoviridae		
<i>Aquaparamyxovirus</i>	<i>Salmon aquaparamyxovirus*</i>	Atlantic salmon paramyxovirus (AsaPV)
<i>Avulavirus</i>	<i>Avian avulavirus 1*</i>	avian paramyxovirus 1 (APMV-1) /
	<i>Avian avulavirus 2</i>	avian paramyxovirus 2 (APMV-2)
	<i>Avian avulavirus 3</i>	avian paramyxovirus 3 (APMV-3)
	<i>Avian avulavirus 4</i>	avian paramyxovirus 4 (APMV-4)
	<i>Avian avulavirus 5</i>	avian paramyxovirus 5 (APMV-5)
	<i>Avian avulavirus 6</i>	avian paramyxovirus 6 (APMV-6)
	<i>Avian avulavirus 7</i>	avian paramyxovirus 7 (APMV-7)
	<i>Avian avulavirus 8</i>	avian paramyxovirus 8 (APMV-8)
	<i>Avian avulavirus 9</i>	avian paramyxovirus 9 (APMV-9)
	<i>Avian avulavirus 10</i>	avian paramyxovirus 10 (APMV-10)
	<i>Avian avulavirus 11</i>	avian paramyxovirus 11 (APMV-11)
	<i>Avian avulavirus 12</i>	avian paramyxovirus 12 (APMV-12)

Genus	Species [¶]	Virus (Abbreviation) [¶]
	<i>Avian avulavirus 13</i>	avian paramyxovirus 13 (APMV-13)
	<i>Avian avulavirus 14</i>	avian paramyxovirus 14 (APMV-14)
	<i>Avian avulavirus 15</i>	avian paramyxovirus 15 (APMV-15)
	<i>Avian avulavirus 16</i>	avian paramyxovirus 16 (APMV-16)
	<i>Avian avulavirus 17</i>	Antarctic penguin virus A (APV-A)
	<i>Avian avulavirus 18</i>	Antarctic penguin virus B (APV-B)
	<i>Avian avulavirus 19</i>	Antarctic penguin virus C (APV-C)
<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) ²
	<i>Hendra henipavirus*</i>	Hendra virus (HeV)
	<i>Mojiang henipavirus</i>	Mojing virus (MoJV)
	<i>Nipah henipavirus</i>	Nipah virus (NiV)
<i>Morbilivirus</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>Small ruminant morbillivirus</i>	peste-des-petits-ruminants virus (PPRV)
	<i>Phocine morbillivirus</i>	phocine distemper virus (PDV)
	<i>Rinderpest morbillivirus</i>	rinderpest virus (RPV)
<i>Respirovirus</i>	<i>Bovine respirovirus 3</i>	bovine parainfluenza virus 3 (BPIV-3)
	<i>Human respirovirus 1</i>	human parainfluenza virus 1 (HPIV-1)
	<i>Human respirovirus 3</i>	human parainfluenza virus 3 (HPIV-3)
	<i>Porcine respirovirus 1</i>	porcine parainfluenza virus 1 (PPIV-1)
	<i>Murine respirovirus*</i>	Sendai virus (SeV) ³
<i>Rubulavirus</i>	<i>Achimota rubulavirus 1</i>	Achimota virus 1 (AchPV-1)
	<i>Achimota rubulavirus 2</i>	Achimota virus 2 (AchPV-2)
	<i>Bat mumps rubulavirus</i>	bat mumps virus (BMV) ⁴

Genus	Species [¶]	Virus (Abbreviation) [¶]
	<i>Human rubulavirus 2</i>	human parainfluenza virus 2 (HPIV-2)
	<i>Human rubulavirus 4</i>	human parainfluenza virus 4a (HPIV-4a)
		human parainfluenza virus 4b (HPIV-4b)
	<i>Mammalian rubulavirus 5</i>	parainfluenza virus 5 (PIV-5) ⁵
	<i>Mapuera rubulavirus</i>	Mapuera virus (MapV)
	<i>Menangle rubulavirus</i>	Menangle virus (MenPV)
	<i>Mumps rubulavirus*</i>	mumps virus (MuV)
	<i>Porcine rubulavirus</i>	La Piedad Michoacán Mexico virus (LPMV) ⁶
	<i>Simian rubulavirus</i>	simian virus 41 (SV-41)
	<i>Sosuga rubulavirus</i>	Sosuga virus (SOSV)
	<i>Teviot rubulavirus</i>	Teviot virus (TevPV)
	<i>Tioman rubulavirus</i>	Tioman virus (TioPV)
	<i>Tuhoko rubulavirus 1</i>	Tuhoko virus 1 (ThkPV-1)
	<i>Tuhoko rubulavirus 2</i>	Tuhoko virus 2 (ThkPV-2)
	<i>Tuhoko rubulavirus 3</i>	Tuhoko virus 3 (ThkPV-3)
Family Pneumoviridae		
<i>Metapneumovirus</i>	<i>Avian metapneumovirus*</i>	avian metapneumovirus (AMPV) ⁷
	<i>Human metapneumovirus</i>	human metapneumovirus (HMPV)
<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 Rhabdoviridae		
<i>Almendravirus</i>	<i>Arboretum alمندravirus</i>	Arboretum virus (ABTV)
	<i>Balsa alمندravirus</i>	Balsa virus (BALV)
	<i>Coot Bay alمندravirus</i>	Coot Bay virus (CBV)
	<i>Puerto Alمندras alمندravirus*</i>	Puerto Alمندras virus (PTAMV)
	<i>Rio Chico alمندravirus</i>	Rio Chico virus (RCHV)

Genus	Species [¶]	Virus (Abbreviation) [¶]
<i>Curiovirus</i>	<i>Curionopolis curiovirus</i> *	Curionopolis virus (CURV)
	<i>Irii curiovirus</i>	Irii virus (IRIV)
	<i>Itacainas curiovirus</i>	Itacainas virus (ITAV)
<i>Cytorhabdovirus</i>	<i>Rochambeau curiovirus</i>	Rochambeau virus (RBUV)
	<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>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>Northern cereal mosaic cytorhabdovirus</i>	northern cereal mosaic virus (NCMV)
	<i>Sonchus cytorhabdovirus 1</i>	Sonchus virus (SonV)
	<i>Strawberry crinkle cytorhabdovirus</i>	strawberry crinkle virus (SCV)
	<i>Wheat American striate mosaic cytorhabdovirus</i>	wheat American striate mosaic virus (WASMV)
<i>Dichorhavirus</i>	<i>Coffee ringspot dichorhavirus</i>	coffee ringspot virus (CoRSV)
	<i>Orchid fleck dichorhavirus</i> *	orchid fleck virus (OFV)
<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>Kimberley ephemerovirus</i>	Kimberley virus (KIMV)
		Malakal virus (MALV)
		Koolpinyah virus (KOOLV)
		kotonkan virus (KOTV)

Genus	Species [¶]	Virus (Abbreviation) [¶]
	<i>Obodhiang ephemerovirus</i>	Obodhiang virus (OBOV)
	<i>Yata ephemerovirus</i>	Yata virus (YATV)
<i>Hapavirus</i>	<i>Flanders hapavirus</i>	Flanders virus (FLAV)
	<i>Hart Park hapavirus</i>	Hart Park virus (HPV)
	<i>Gray Lodge hapavirus</i>	Gray Lodge virus (GLOV)
	<i>Joinjakaka hapavirus</i>	Joinjakaka virus (JOIV)
	<i>La Joya hapavirus</i>	La Joya virus (LJV)
	<i>Kamese hapavirus</i>	Kamese virus (KAMV)
	<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)
	<i>Mossuril hapavirus</i>	Mossuril virus (MOSV)
	<i>Ngaingan hapavirus</i>	Ngaingan 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>Ledantevirus</i>	<i>Barur ledantevirus</i>	Barur virus (BARV)
	<i>Fikiri ledantevirus</i>	Fikiri 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>Nkolbisson ledantevirus</i>	Nkolbisson virus (NKOV)

Genus	Species [¶]	Virus (Abbreviation) [¶]
	<i>Nishimuro ledantevirus</i>	Nishimuro virus (NISV) ⁸
	<i>Oita ledantevirus</i>	Oita virus (OITAV)
	<i>Wuhan ledantevirus</i>	Wuhan louse fly virus 5 (WLFV-5)
	<i>Yongjia ledantevirus</i>	Yongjia tick virus 2 (YTV-2)
<i>Lyssavirus</i>	<i>Aravan lyssavirus</i>	Aravan virus (ARAV)
	<i>Australian bat lyssavirus</i>	Australian bat lyssavirus (ABLV)
	<i>Boke/loh bat lyssavirus</i>	Boke/loh 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>West Caucasian bat lyssavirus</i>	West Caucasian bat virus (WCBV)
<i>Novirhabdovirus</i>	<i>Hirame novirhabdovirus</i>	hirame rhabdovirus (HIRV)
	<i>Piscine novirhabdovirus</i>	viral hemorrhagic septicemia virus (VHSV) ⁹
	<i>Salmonid novirhabdovirus*</i>	infectious hematopoietic necrosis virus (IHNV)
	<i>Snakehead novirhabdovirus</i>	snakehead rhabdovirus (SHRV)
<i>Nucleorhabdovirus</i>	<i>Datura yellow vein nucleorhabdovirus</i>	datura yellow vein virus (DYVV)
	<i>Eggplant mottled dwarf nucleorhabdovirus</i>	eggplant mottled dwarf virus (EMDV)

Genus	Species [¶]	Virus (Abbreviation) [¶]
	<i>Maize fine streak nucleorhabdovirus</i>	maize fine streak virus (MSFV)
	<i>Maize Iranian mosaic nucleorhabdovirus</i>	maize Iranian mosaic virus (MIMV)
	<i>Maize mosaic nucleorhabdovirus</i>	maize mosaic virus (MMV)
	<i>Potato yellow dwarf nucleorhabdovirus</i> *	potato yellow dwarf virus (PYDV)
	<i>Rice yellow stunt nucleorhabdovirus</i>	rice yellow stunt virus (RYSV)
		rice transitory yellowing virus (RTYV)
	<i>Sonchus yellow net nucleorhabdovirus</i>	Sonchus yellow net virus (SYNV)
	<i>Sowthistle yellow vein nucleorhabdovirus</i>	sowthistle yellow vein virus (SYVV)
	<i>Taro vein chlorosis nucleorhabdovirus</i>	taro vein chlorosis virus (TaVCV)
<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)
<i>Sigmavirus</i>	<i>Drosophila affinis sigmavirus</i>	Drosophila affinis sigmavirus (DAfISV)
	<i>Drosophila ananassae sigmavirus</i>	Drosophila ananassae sigmavirus (DAAnaSV)
	<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 (DTrISV)
	<i>Muscina stabulans sigmavirus</i>	Muscina stabulans sigmavirus (MStiaSV)
<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)
		tench rhabdovirus (TenRV)
<i>Stipivirus</i>	<i>Almipwar stipivirus</i>	Almipwar virus (ALMV)
	<i>Chaco stipivirus</i>	Chaco virus (CHOV)

Genus	Species [¶]	Virus (Abbreviation) [¶]
	<i>Niakha sripuvirus</i> *	Niakha virus (NIAV)
	<i>Sena Madureira sripuvirus</i>	Sena Madureira virus (SMV)
	<i>Sipur sripuvirus</i>	Sipur virus (SRIV)
<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>Tibrogangan tibrovirus</i> *	Bivens Arm virus (BAV)
		Tibrogangan virus (TIBV)
<i>Tupavirus</i>	<i>Durham tupavirus</i> *	Durham virus (DURV)
	<i>Klamath tupavirus</i>	Klamath virus (KLAV)
	<i>Tupaia tupavirus</i>	tupaia virus (TUPV)
<i>Varicosavirus</i>	<i>Lettuce big-vein associated varicosavirus</i> *	lettuce big-vein associated virus (LBYaV) ¹⁰
<i>Vesiculovirus</i>	<i>Alagoas vesiculovirus</i>	vesicular stomatitis Alagoas virus (VSAV)
	<i>American bat vesiculovirus</i>	American bat vesiculovirus (ABVV)
	<i>Carajas vesiculovirus</i>	Carajas virus (CJSV)
	<i>Chandipura vesiculovirus</i>	Chandipura virus (CHPV)
	<i>Cocal vesiculovirus</i>	Cocal virus (COCV)
	<i>Indiana vesiculovirus</i> *	vesicular stomatitis Indiana virus (VSVI)
	<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>Morretton vesiculovirus</i>	Morretton virus (MORV)
	<i>New Jersey vesiculovirus</i>	vesicular stomatitis New Jersey virus (VSNJV)
	<i>Perinet vesiculovirus</i>	Perinet virus (PERV)

Genus	Species [¶]	Virus (Abbreviation) [¶]
	<i>Piry vesiculovirus</i>	Piry virus (PIRYV)
	<i>Radi vesiculovirus</i>	Radi virus (RADV)
	<i>Yug Bogdanovac vesiculovirus</i>	Yug Bogdanovac virus (YBV)
Unassigned	<i>Moussa virus</i>	Moussa virus (MOUV)
Family <i>Sunviridae</i>		
<i>Sunshinevirus</i>	<i>Reptile sunshinevirus 1</i> [*]	Sunshine Coast virus (SunCV)
Family <i>Ximoviridae</i>		
<i>Anphevirus</i>	<i>Bolahun anphevirus</i>	Bolahun virus (BLHV)
		Gambie virus (GAMV)
	<i>Dipteran anphevirus</i>	Húb 1 diptera virus 11 (HbDV-11)
	<i>Drosophilid anphevirus</i>	Drosophila unispina virus 1 (DunV-1)
	<i>Odonate anphevirus</i>	Húb 1 rhabdo-like virus 7 (HbRLV-7)
	<i>Orthopteran anphevirus</i>	Húb 1 orthoptera virus 5 (HbOV-5)
	<i>Shuangao anphevirus</i>	Shu ngáo fly virus 2 (SgFV-2)
	<i>Xincheng anphevirus</i> [*]	X nchéng mosquito virus (XcMV)

* Asterisks denote type species.

¹ Includes Newcastle disease virus (NDV) and pigeon paramyxovirus 1 (PPMV-1)

² synonym: GH-M74a virus, Kumasi virus (KV)

³ synonym: murine parainfluenza virus 1

⁴ synonym: bat paramyxovirus

⁵ synonym: simian virus 5

⁶ synonym: porcine rubulavirus

⁷ synonyms: avian pneumovirus, turkey rhinotracheitis virus

⁸ synonym: wild boar rhabdovirus 1 (WBRV1)

⁹ synonyms: Egtved virus, Paralichthys olivaceus rhabdovirus

¹⁰ synonym: tobacco stunt virus

Please note that viruses are real objects that are assigned to concepts that are called taxa. Species, genera, families, and orders are taxa. Taxon names are always italicized and always begin with a capital letter. Virus names, on the other hand, 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.

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