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### Authors

Maes, Piet  
Adkins, Scott  
Alkhovsky, Sergey V  
[et al.](#)

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## TAXONOMY OF THE ORDER *BUNYAVIRALES*: SECOND UPDATE 2018

*A full list of authors and affiliations appears at the end of the article.*

### Abstract

In October 2018, the order *Bunyavirales* was amended by inclusion of the family *Arenaviridae*, abolishment of three families, creation of three new families, 19 new genera, and 14 new species, and renaming of three genera and 22 species. This article presents the updated taxonomy of the order *Bunyavirales* as now accepted by the International Committee on Taxonomy of Viruses (ICTV).

### Keywords

Arenaviridae; arenavirid; arenavirus; bunyavirad; Bunyavirales; bunyavirid; Bunyaviridae; bunyavirus; emaravirus; Feraviridae; feravirid, feravirus; fimovirid; Fimoviridae; fimovirus; goukovirus; hantavirid; Hantaviridae; hantavirus; hartmanivirus; herbevirus; ICTV; International Committee on Taxonomy of Viruses; jonvirid; Jonviridae; jonvirus; mammarenavirus; nairovirid; Nairoviridae; nairovirus; orthobunyavirus; orthoferavirus; orthohantavirus; orthojonvirus; orthonairovirus; orthophasmavirus; orthospovirus; peribunyavirid; Peribunyaviridae; peribunyavirus; phasmavirid; phasivirus; Phasmaviridae; phasmavirus; phenuvirid; Phenuviridae; phenuivirus; phlebovirus; reptarenavirus; tenuivirus; tospovirid; Tospoviridae; tospovirus; virus classification; virus nomenclature; virus taxonomy

## INTRODUCTION

The virus order *Bunyavirales* was established in 2017 to accommodate related viruses with segmented, linear, single-stranded, negative-sense or ambisense RNA genomes classified into 9 families [2]. Here we present the changes that were proposed via an official ICTV taxonomic proposal (TaxoProp 2017.012M.A.v1.Bunyavirales\_rev) at <http://www.ictvonline.org/> in 2017 and were accepted by the ICTV Executive Committee (EC) in

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kuhnjens@mail.nih.gov.

### COMPLIANCE WITH ETHICAL STANDARDS

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, 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.

### 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.

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 *Bunyvirales* was amended by inclusion of the previously unassigned family *Arenaviridae*. The families *Feraviridae*, *Jonviridae*, and *Tospoviridae* were dissolved and their genera (*Orthoferavirus*, *Orthojonvirus*, and *Orthotospovirus*) were renamed (*Feravirus*, *Jonvirus*, and *Tospovirus*, respectively) and moved into established families (*Feravirus*, *Jonvirus*→*Phasmaviridae* and *Tospovirus*→*Peribunyaviridae*). Three new families were created for novel invertebrate viruses: *Cruliviridae* for W nling crustacean virus 9 (WICV-9), *Myopoviridae* for Húb i myriapoda virus 5 (HbMV-5), and *Wupedeviridae* for Wühàn millipede virus 2 (WhMV-2) [4].

## TAXONOMIC CHANGES AT THE FAMILY RANK

### Fimoviridae

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

### Hantaviridae

In October 2018, the family was expanded by the addition of three new genera (*Loanvirus*, *Mobatvirus*, and *Thottimvirus*) for the species *Longquan orthohantavirus*, *Laibin orthohantavirus*, *Nova orthohantavirus*, *Quezon orthohantavirus*, *Imjin orthohantavirus*, and *Thottapalayam orthohantavirus* (now renamed *Longquan loanvirus*, *Laibin mobatvirus*, *Nova mobatvirus*, *Quezon mobatvirus*, *Imjin thottimvirus*, *Thottapalayam thottimvirus*, respectively).

### Nairoviridae

In October 2018, the family was expanded by the addition of two new genera, *Shaspivirus* and *Striwavirus*, for Sh yáng spider virus 1 (SySV-1) and S nxiá water strider virus 1 (SxWSV-1) discovered in invertebrates, respectively [1, 4].

### Peribunyaviridae

In October 2018, the family was expanded by the addition of the new genus *Shangavirus* for the species *Shuangao insect herbevirus* (now renamed *Insect shangavirus*).

### Phasmaviridae

In October 2018, the family was expanded by the addition of the new genus *Inshuvirus* for the species *Shuangao insect orthophasmavirus 2* (now renamed *Insect inshuvirus*) and the new genus *Wuhivirus* for Wühàn insect virus 2 (WhIV-2) discovered in invertebrates [1].

### Phenuiviridae

In October 2018, the family was expanded by the addition of new genus *Banyangvirus* for the species *SFTS phlebovirus* (now renamed *Huaiyangshan banyangvirus*) and the new genera *Beidivirus*, *Horwuvirus*, *Hudivirus*, *Hudovirus*, *Mobuvirus*, *Pidchovirus*, and

*Wubeivirus* for Húb i diptera virus 3 (HbDV-3), Wùhàn horsefly virus (WhHV), Húb i diptera virus 4 (HbDV-4), Húb i lepidoptera virus 1 (HbLV-1), Mothra virus (MTHV), Pidgey virus (PGYV), and Húb i diptera virus 5 (HbDV-5)/Wùhàn fly virus 1 (WhFV-1) discovered in invertebrates, respectively [1, 3, 4].

## SUMMARY

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

## Authors

P Maes<sup>1</sup>, S Adkins<sup>2</sup>, SV Alkhovsky<sup>3</sup>, T Avši -Županc<sup>4</sup>, MJ Ballinger<sup>5</sup>, DA Bente<sup>6</sup>, M Beer<sup>7</sup>, É Bergeron<sup>8</sup>, CD Blair<sup>9</sup>, T Briese<sup>10</sup>, MJ Buchmeier<sup>11</sup>, FJ Burt<sup>12,13</sup>, CH Calisher<sup>9</sup>, RN Charrel<sup>14</sup>, IR Choi<sup>15</sup>, JCS Clegg<sup>16</sup>, JC de la Torre<sup>17</sup>, X de Lamballerie<sup>14</sup>, JL DeRisi<sup>18,19,20</sup>, M Digiario<sup>21</sup>, M Drebot<sup>22</sup>, H Ebihara<sup>23</sup>, T Elbeaino<sup>21</sup>, K Ergünay<sup>24</sup>, CF Fulhorst<sup>6</sup>, AR Garrison<sup>25</sup>, GF G o<sup>26</sup>, JJ Gonzalez<sup>27</sup>, MH Groschup<sup>28,29</sup>, S Günther<sup>30</sup>, AL Haenni<sup>31</sup>, RA Hall<sup>32</sup>, R Hewson<sup>33</sup>, HR Hughes<sup>34</sup>, RK Jain<sup>35</sup>, MG Jonson<sup>36</sup>, S Junglen<sup>37,38</sup>, B Klempa<sup>37,39</sup>, J Klingström<sup>40</sup>, R Kormelink<sup>41</sup>, AJ Lambert<sup>34</sup>, SA Langevin<sup>42</sup>, IS Lukashevich<sup>43</sup>, M Marklewitz<sup>37,38</sup>, GP Martelli<sup>44</sup>, N Mielke-Ehret<sup>45</sup>, A Mirazimi<sup>46</sup>, HP Mühlbach<sup>45</sup>, R Naidu<sup>47</sup>, MRT Nunes<sup>48</sup>, G Palacios<sup>25</sup>, A Papa<sup>49</sup>, JT Paw ska<sup>50,51</sup>, CJ Peters<sup>6</sup>, A Plyusnin<sup>52</sup>, SR Radoshitzky<sup>25</sup>, RO Resende<sup>53</sup>, V Romanowski<sup>54</sup>, AA Sall<sup>55</sup>, MS Salvato<sup>56</sup>, T Sasaya<sup>57</sup>, C Schmaljohn<sup>25</sup>, X Shi<sup>58</sup>, Y Shirako<sup>59</sup>, P Simmonds<sup>60</sup>, M Sironi<sup>61</sup>, JW Song<sup>62</sup>, JR Spengler<sup>8</sup>, MD Stenglein<sup>63</sup>, RB Tesh<sup>6</sup>, M Turina<sup>64</sup>, T Wèi<sup>65</sup>, AE Whitfield<sup>66</sup>, SD Yeh<sup>67</sup>, FM Zerbini<sup>68</sup>, YZ Zhang<sup>28,29</sup>, X Zhou<sup>69</sup>, and JH Kuhn<sup>70</sup>

## Affiliations

<sup>1</sup>Zoonotic Infectious Diseases unit, Rega Institute, KU Leuven, Leuven, Belgium.

<sup>2</sup>United States Department of Agriculture, Agricultural Research Service, US Horticultural Research Laboratory, Fort Pierce, FL, USA. <sup>3</sup>D. I. Ivanovsky Institute of Virology, N. F. Gamaleya Federal Research Center for Epidemiology and Microbiology, Ministry of Health of the Russian Federation, Moscow, Russia.

<sup>4</sup>University of Ljubljana, Ljubljana Faculty of Medicine, Ljubljana, Slovenia.

<sup>5</sup>Department of Biological Sciences, Mississippi State University, Mississippi State, MS, USA. <sup>6</sup>University of Texas Medical Branch, Galveston, TX, USA. <sup>7</sup>Institute of

Diagnostic Virology, Friedrich-Loeffler-Institut, Greifswald-Insel Riems, Germany.

<sup>8</sup>Viral Special Pathogens Branch, Division of High-Consequence Pathogens and Pathology, Centers for Disease Control and Prevention, Atlanta, GA, USA.

<sup>9</sup>Department of Microbiology, Immunology & Pathology, Arthropod-borne and Infectious Diseases Laboratory, Colorado State University, Fort Collins, CO, USA.

<sup>10</sup>Department of Epidemiology, Mailman School of Public Health, Center for Infection and Immunity, Columbia University, New York, NY, USA. <sup>11</sup>Department of Molecular Biology and Biochemistry, University of California, Irvine, CA, USA.

<sup>12</sup>Division of Virology, National Health Laboratory Service, Bloemfontein, Republic of South Africa. <sup>13</sup>Division of Virology, University of the Free State, Bloemfontein,

Republic of South Africa. <sup>14</sup>Unité des Virus Emergents (Aix-Marseille Univ-IRD 190-Inserm 1207-IHU Méditerranée Infection), Marseille, France. <sup>15</sup>Plant Breeding Genetics and Biotechnology Division, International Rice Research Institute, Los Baños, Philippines. <sup>16</sup>Les Mandinaux, Le Grand Madieu, France. <sup>17</sup>Department of Immunology and Microbiology IMM-6, The Scripps Research Institute, La Jolla, CA, USA. <sup>18</sup>Department of Medicine, University of California, San Francisco, CA, USA. <sup>19</sup>Department of Biochemistry and Biophysics, University of California, San Francisco, CA, USA. <sup>20</sup>Department of Microbiology, University of California, San Francisco, CA, USA. <sup>21</sup>Istituto Agronomico Mediterraneo di Bari, Valenzano, Italy. <sup>22</sup>Zoonotic Diseases and Special Pathogens, National Microbiology Laboratory, Public Health Agency of Canada, Winnipeg, MB, Canada. <sup>23</sup>Department of Molecular Medicine, Mayo Clinic, Rochester, MN, USA. <sup>24</sup>Virology Unit, Department of Medical Microbiology, Faculty of Medicine, Hacettepe University, Ankara, Turkey. <sup>25</sup>United States Army Medical Research Institute of Infectious Diseases, Fort Detrick, Frederick, MD, USA. <sup>26</sup>National Institute for Viral Disease Control and Prevention, Chinese Center for Disease Control and Prevention, Beijing, China. <sup>27</sup>Center of Excellence for Emerging and Zoonotic Animal Disease, Kansas State University, Manhattan, KS, USA. <sup>28</sup>National Institute for Communicable Disease Control and Prevention, Chinese Center for Disease Control and Prevention, Changping, Beijing, China. <sup>29</sup>Shanghai Public Health Clinical Center & Institutes of Biomedical Sciences, Fudan University, Shanghai, China. <sup>30</sup>Department of Virology, Bernhard-Nocht Institute for Tropical Medicine, WHO Collaborating Centre for Arboviruses and Hemorrhagic Fever Reference and Research, Hamburg, Germany. <sup>31</sup>Institut Jacques Monod, CNRS-Université Paris-Diderot, Paris, France. <sup>32</sup>Australian Infectious Diseases Research Centre, School of Chemistry and Molecular Biosciences, The University of Queensland, Brisbane, Australia. <sup>33</sup>Public Health England, Porton Down, Wiltshire, Salisbury, UK. <sup>34</sup>Centers for Disease Control and Prevention, Fort Collins, CO, USA. <sup>35</sup>Division of Plant Pathology, Indian Agricultural Research Institute, New Delhi, India. <sup>36</sup>Department of Agricultural Biotechnology, Center for Fungal Pathogenesis, College of Agriculture and Life Sciences, Seoul National University, Seoul, Korea. <sup>37</sup>Institute of Virology, Charité-Universitätsmedizin Berlin, corporate member of Free University Berlin, Humboldt-University Berlin, and Berlin Institute of Health, Berlin, Germany. <sup>38</sup>German Centre for Infection Research, Berlin, Germany. <sup>39</sup>Biomedical Research Center, Slovak Academy of Sciences, Bratislava, Slovakia. <sup>40</sup>Department of Medicine Huddinge, Center for Infectious Medicine, Karolinska Institutet, Karolinska University Hospital, Stockholm, Sweden. <sup>41</sup>Laboratory of Virology, Department of Plant Sciences, Wageningen University, Wageningen, The Netherlands. <sup>42</sup>Department of Microbiology, University of Washington, Washington, USA. <sup>43</sup>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. <sup>44</sup>Department of Plant, Soil and Food Sciences, University of Bari Aldo Moro, Bari, Italy. <sup>45</sup>Biocentre Klein Flottbek, University of Hamburg, Hamburg, Germany. <sup>46</sup>Folkhalsomyndigheten, Stockholm, Sweden. <sup>47</sup>Department of

Plant Pathology, Irrigated Agricultural Research and Extension Center, Washington State University, Prosser, WA, USA. <sup>48</sup>Evandro Chagas Institute, Ministry of Health, Rod BR 316, Ananindeua, Brazil. <sup>49</sup>Department of Microbiology, Medical School, National Reference Centre for Arboviruses and Haemorrhagic Fever Viruses, Aristotle University of Thessaloniki, Thessaloniki, Greece. <sup>50</sup>Centre for Emerging Zoonotic and Parasitic Diseases, National Institute for Communicable Diseases, National Health Laboratory Service, Sandringham, South Africa. <sup>51</sup>Department of Medical Virology, Centre for Viral Zoonoses, Faculty of Health Sciences, University of Pretoria, Pretoria, South Africa. <sup>52</sup>Department of Virology, University of Helsinki, Medicum, Helsinki, Finland. <sup>53</sup>Departamento de Biologia Celular, Universidade de Brasília, Brasília, DF, Brazil. <sup>54</sup>Instituto de Biotecnología y Biología Molecular, Centro Científico Tecnológico-La Plata, Consejo Nacional de Investigaciones Científicas y Técnicas-Universidad Nacional de La Plata, La Plata, Argentina. <sup>55</sup>Institut Pasteur de Dakar, Dakar, Senegal. <sup>56</sup>Institute of Human Virology, University of Maryland School of Medicine, Baltimore, MD, USA. <sup>57</sup>Department of Planning and Coordination, National Agriculture and Food Research Organization, Tsukuba, Japan. <sup>58</sup>MRC-University of Glasgow Centre for Virus Research, Glasgow, Scotland, UK. <sup>59</sup>Asian Center for Bioresources and Environmental Sciences, University of Tokyo, Tokyo, Japan. <sup>60</sup>Nuffield Department of Medicine, University of Oxford, Oxford, UK. <sup>61</sup>Bioinformatics Scientific Institute IRCCS E. MEDEA, Bosisio Parini, Italy. <sup>62</sup>Department of Microbiology, College of Medicine, Korea University, Seoul, Republic of Korea. <sup>63</sup>Department of Microbiology, Immunology and Pathology, Colorado State University, Fort Collins, CO, USA. <sup>64</sup>Institute for Sustainable Plant Protection, CNR, Torino, Italy. <sup>65</sup>Fujian Province Key Laboratory of Plant Virology, Institute of Plant Virology, Fujian Agriculture and Forestry University, Fuzhou, Fujian, China. <sup>66</sup>Department of Entomology and Plant Pathology, North Carolina State University, Raleigh, NC, USA. <sup>67</sup>Department of Plant Pathology, National Chung Hsing University, Taichung, Taiwan. <sup>68</sup>Departamento de Fitopatologia/BIOAGRO, Universidade Federal de Viçosa, Viçosa, MG, Brazil. <sup>69</sup>State Key Laboratory for Biology of Plant Diseases and Insect Pests, Institute of Plant Protection, Chinese Academy of Agricultural Sciences, Beijing, China. <sup>70</sup>Integrated Research Facility at Fort Detrick (IRF-Frederick), Division of Clinical Research (DCR), National Institute of Allergy and Infectious Diseases (NIAID), National Institutes of Health (NIH), B-8200 Research Plaza, Fort Detrick, Frederick, MD, 21702, USA.

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**Table 1.**  
**ICTV-accepted taxonomy of the order *Bunyvirales* as of October 2018.**

Listed are all bunyaviruses that are classified into species.

Genus	Species <sup>¶</sup>	Virus (Abbreviation) <sup>¶</sup>
<b>Family <i>Arenaviridae</i></b>		
<i>Hartmannivirus</i>	<i>Hartman hartmannivirus</i> <sup>*</sup>	Hartman Institute snake virus 1 (HISV-1)
<i>Mammarenavirus</i>	<i>Alpahuayo mammarenavirus</i>	Alpahuayo virus (ALLY)
	<i>Argentinian mammarenavirus</i>	Junin virus (JUNV)
	<i>Bear Canyon mammarenavirus</i>	Bear Canyon virus (BCNV)
	<i>Brazilian mammarenavirus</i>	Sabiá virus (SBAV)
	<i>Chapare mammarenavirus</i>	Chapare virus (CHAPV)
	<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>Lassa mammarenavirus</i>	Lassa virus (LASV)
	<i>Latino mammarenavirus</i>	Latino virus (LATV)
	<i>Loei River mammarenavirus</i>	Loei River virus (LORV)
	<i>Lujo mammarenavirus</i>	Lujo virus (LUJV)
	<i>Luna mammarenavirus</i>	Luna virus (LUAV)
	<i>Luli mammarenavirus</i>	Luli virus (LULV)
	<i>Lunk mammarenavirus</i>	Lunk virus (LNKV)
	<i>Lymphocytic choriomeningitis mammarenavirus</i> <sup>*</sup>	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)



Genus	Species <sup>†</sup>	Virus (Abbreviation) <sup>†</sup>
	<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>Calí mammarenavirus</i>	Pichindé virus (PICHV)
	<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>	W nzh u virus (WENV) <sup>†</sup>
	<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>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> <sup>*</sup>	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)
<b>Family Cruliviridae</b>		

Genus	Species <sup>¶</sup>	Virus (Abbreviation) <sup>¶</sup>
<i>Lincruvirus</i>	<i>Crustacean lincruvirus</i> *	W nling crustacean virus 9 (WICV-9)
<b>Family Fimoviridae</b>		
<i>Emaravirus</i>	<i>Actinidia chlorotic ringspot-associated emaravirus</i>	Actinidia chlorotic ringspot-associated virus (AcCRaV)
	<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>Pigeonpea sterility mosaic emaravirus 1</i>	pigeonpea sterility mosaic virus (PPSMV)
	<i>Pigeonpea sterility mosaic emaravirus 2</i>	pigeonpea sterility mosaic virus 2 (PPSMV-2)
	<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)
<b>Family Hantaviridae</b>		
<i>Orthohantavirus</i>	<i>Amga orthohantavirus</i>	Amga virus (MGAV) <sup>2</sup>
	<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>	Cano Delgadito virus (CADV)
	<i>Cao Bang orthohantavirus</i>	Cao Bằng virus (CBNV)
		Liánhé virus (LHEV)
	<i>Choclo orthohantavirus</i>	Choclo virus (CHOV)

Genus	Species <sup>†</sup>	Virus (Abbreviation) <sup>‡</sup>
	<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>	Fùgōng virus (FUGV)
	<i>Fusong orthohantavirus</i>	Fùsōng virus (FUSV)
	<i>Hantaan orthohantavirus</i> *	Amur virus (AMRV)
		Hantaan virus (HTNV)
		Soochong virus (SOOV)
	<i>Jeju orthohantavirus</i>	Jeju virus (JIUV)
	<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)
		Río Mamoré virus (RIOMV)
	<i>Luxi orthohantavirus</i>	Lúxí virus (LUXV)
	<i>Maporal orthohantavirus</i>	Maporal virus (MAPV)
	<i>Montano orthohantavirus</i>	Montano virus (MTNV)
	<i>Necocli orthohantavirus</i>	Necocli 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)

Genus	Species <sup>¶</sup>	Virus (Abbreviation) <sup>¶</sup>
	<i>Rockport orthohantavirus</i>	Rockport virus (RKPV)
	<i>Sangassou orthohantavirus</i>	Sangassou virus (SANGV)
	<i>Seoul orthohantavirus</i>	g u virus (GOUV)
		Seoul virus (SEOV)
	<i>Sin Nombre orthohantavirus</i>	New York virus (NYV) <sup>3</sup>
		Sin Nombre virus (SNV)
	<i>Thailand orthohantavirus</i>	Anjzorobe virus (ANJZV)
		Serang virus (SERV) <sup>4</sup>
		Thailand virus (THAIV)
	<i>Tula orthohantavirus</i>	Adler virus (ADLV)
		Tula virus (TULV)
	<i>Yakeshi orthohantavirus</i>	Yákèshí virus (YKSV)
<i>Loanvirus</i>	<i>Longquan loanvirus</i> <sup>*</sup>	Lóngquán virus (LQUV)
<i>Mobatvirus</i>	<i>Laibin mobatvirus</i>	Láib n virus (LAIV)
	<i>Nova mobatvirus</i> <sup>*</sup>	Nova virus (NVAV)
	<i>Quezon mobatvirus</i>	Quezon virus (QZNV)
<i>Thottimvirus</i>	<i>Injin thottimvirus</i>	Injin virus (MINV)
	<i>Thottapalayam thottimvirus</i> <sup>*</sup>	Thottapalayam virus (TPMV)
<b>Family Myppoviridae</b>		
<i>Hubavirus</i>	<i>Myriapod hubavirus</i> <sup>*</sup>	Húb i myriapoda virus 5 (HBMV-5)
<b>Family Nairoviridae</b>		
<i>Orthonairovirus</i>	<i>Artashat orthonairovirus</i>	Artashat virus (ARTSV)
	<i>Chim orthonairovirus</i>	Chim virus (CHIMV)
	<i>Crimean-Congo hemorrhagic fever orthonairovirus</i>	Crimean-Congo hemorrhagic fever virus (CCHFV)
	<i>Dera Ghazi Khan orthonairovirus</i>	Abu Hammad virus (AHV) <sup>5</sup>
		Abu Mina virus (AMV)
		Dera Ghazi Khan virus (DGKV)

Genus	Species <sup>7</sup>	Virus (Abbreviation) <sup>7</sup>
		Sapphirine II virus (SAPV)
	<i>Dugbe orthonairovirus</i> *	Dugbe virus (DUGV)
		kupe virus (KUPEV)
	<i>Hazara orthonairovirus</i>	Hazara virus (HAZV)
		Tofla virus (TFLV)
	<i>Hughes orthonairovirus</i>	Caspiy virus (CASV)
		Farallon virus (FARV)
		Great Sallee virus (GRSV)
		Hughes virus (HUGV)
		Punta Salinas virus (PSV)
		Raza virus (RAZAV)
		Soldado virus (SOLV)
		Zirqa virus (ZIRV)
	<i>Kasokero orthonairovirus</i>	Kasokero virus (KASV = KASOV)
		Leopards Hill virus (LPHV)
		Yogue virus (YOGV)
	<i>Keterah orthonairovirus</i>	Gossas virus (GOSV)
		Issyk-kul virus (ISKV)
		Keterah virus (KTRV) <sup>6</sup>
		Uzun-Agach virus (UZAV)
	<i>Nairobi sheep disease orthonairovirus</i>	Nairobi sheep disease virus (NSDV) <sup>7</sup>
	<i>Qalyub orthonairovirus</i>	Bandia virus (BDAV)
		Geran virus (GERV)
		Qalyub virus (QYBV)
	<i>Sakhalin orthonairovirus</i>	Avalon virus (AVAV)
		Clo Mor virus (CMV = CLMV)
		Sakhalin virus (SAKV)
		Taggart virus (TAGV)

Genus	Species <sup>†</sup>	Virus (Abbreviation) <sup>†</sup>
		Tillamook virus (TILLY)
	<i>Tamdy orthonairovirus</i>	Burana virus (BURV)
		Huangpi tick virus 1 (HpTV-1)
		Tamdy virus (TAMV)
		Tacheng tick virus 1 (TcTV-1)
		W nzh u tick virus (WzTV)
	<i>Thiafora orthonairovirus</i>	Erve virus (ERVEV)
		Thiafora virus (TFAV)
<i>Shaspiavirus</i>	<i>Spider shaspiavirus</i> *	Sh yang spider virus 1 (SySV-1)
<i>Striavirus</i>	<i>Strider striavirus</i> *	S nxiá water strider virus 1 (SxWSV-1)
<b>Family Peribunyaviridae</b>		
<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>Acara orthobunyavirus</i>	Acará virus (ACAV)
	<i>Akabane orthobunyavirus</i>	Moriche virus (MORV)
		Akabane virus (AKAV)
		Sabo virus (SABOV)
		Tinaroo virus (TINV)
		Yaba-7 virus (Y7V)
	<i>Alajuela orthobunyavirus</i>	Alajuela virus (ALJV)
		Brus Laguna virus (BLAV)
		San Juan virus (SJV)
	<i>Anopheles A orthobunyavirus</i>	Anopheles A virus (ANAV)
		Arumateua virus (ARTV = ARMTV)
		Caraipé virus (CPEV = CRPV)
		Las Maloyas virus (LMV)
		Lukuni virus (LUKV)

Genus	Species <sup>¶</sup>	Virus (Abbreviation) <sup>¶</sup>
		Trombetas virus (TRMV)
		Tucuruí virus (TUCV = TUCRV)
	<i>Anopheles B orthobunyavirus</i>	Anopheles B virus (ANBV)
		Boracéia virus (BORV)
	<i>Bakau orthobunyavirus</i>	Bakau virus (BAKV)
		Ketapang virus (KETV)
		Nola virus (NOLAV)
		Tanjong Rabok virus (TRV)
		Telok Forest virus (TFV)
	<i>Batama orthobunyavirus</i>	Batama virus (BMAV)
	<i>Benevides orthobunyavirus</i>	Benevides virus (BVSV = BENV)
	<i>Bertioga orthobunyavirus</i>	Bertioga virus (BERV)
		Cananóia virus (CNAV)
		Guaratuba virus (GTBV)
		Itimirim virus (ITIV)
		Mirim virus (MIRV)
	<i>Bimiti orthobunyavirus</i>	bimiti virus (BIMV)
	<i>Botambi orthobunyavirus</i>	Botambi virus (BOTV)
	<i>Bunyamwera orthobunyavirus</i> <sup>*</sup>	Anadyr virus (ANADV)
		Batai virus (BATV) <sup>§</sup>
		Birao virus (BIRV)
		Bozo virus (BOZOV)
		Bunyamwera virus (BUNV)
		Cache Valley virus (CVV)
		Fort Sherman virus (FSV)
		Germiston virus (GERV)
		Ilesha virus (ILEV)
		Lokem virus (LOKV)

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Genus	Species <sup>¶</sup>	Virus (Abbreviation) <sup>¶</sup>
		Maguari virus (MAGV)
		Mboké virus (MBOV)
		Ngari virus (NRIV) <sup>§</sup>
		Northway virus (NORV)
		Playas virus (PLAV)
		Potosi virus (POTV)
		Santa Rosa virus (SARV)
		Shokwe virus (SHOV)
		Stanfield virus (STAV)
		Tensaw virus (TENV)
		Tlacotalpan virus (TLAV)
		Xingu virus (XINV)
		Benfica virus (BENV = BNFV)
	<i>Bushbush orthobunyavirus</i>	Bushbush virus (BSBV)
		Juan Diaz virus (JDV)
	<i>Bwamba orthobunyavirus</i>	Bwamba virus (BWAV)
		Pongola virus (PGAV)
		Achiote virus (ACHOV)
	<i>California encephalitis orthobunyavirus</i>	California encephalitis virus (CEV)
		infirmatus virus (INFV)
		Inkoo virus (INKV)
		Jamestown Canyon virus (JCV)
		Jerry Slough virus (JSV)
		Keystone virus (KEYV)
		Khatanga virus (KHATV) <sup>10</sup>
		La Crosse virus (LACV)
		Lumbo virus (LUMV)
		Melao virus (MELY)



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Genus	Species <sup>†</sup>	Virus (Abbreviation) <sup>‡</sup>
		Morro Bay virus (MBV)
		San Angelo virus (SAV)
		Serra do Navio virus (SDNV)
		snowshoe hare virus (SSHV)
		South River virus (SORV)
		alya virus (TAHV)
		trivittatus virus (TUTV)
	<i>Capim orthobunyavirus</i>	Capim virus (CAPV)
	<i>Caraparú orthobunyavirus</i>	Apeú virus (APEUV)
		Bruconha virus (BRUV)
		Caraparú virus (CARV)
		El Huayo virus (EHUV)
		Itaya virus (ITYV)
		Ossa virus (OSSAV)
		Vinces virus (VINV)
	<i>Catu orthobunyavirus</i>	Catú virus (CATUV)
	<i>Estero Real orthobunyavirus</i>	Estero Real virus (ERV)
	<i>Gamboá orthobunyavirus</i>	Calchaquí virus (CQIV)
		Gamboá virus (GAMV)
		Pueblo Viejo virus (PVV)
		Soberanía virus (SOBV)
	<i>Guajará orthobunyavirus</i>	Guajará virus (GJAV)
	<i>Guama orthobunyavirus</i>	Ananindeua virus (ANUV)
		Guamá virus (GMAV)
		Mahogany Hammock virus (MHV)
		Moju virus (MOJUV)
	<i>Guaroa orthobunyavirus</i>	Guaroa virus (GROV)
	<i>Kaeng Khoi orthobunyavirus</i>	Kaeng Khoi virus (KKV)
	<i>Kairi orthobunyavirus</i>	Kairi virus (KRIV)

Genus	Species <sup>†</sup>	Virus (Abbreviation) <sup>†</sup>
	<i>Koongol orthobunyavirus</i>	koongol virus (KOOV)
		wongal virus (WONV)
	<i>Madrid orthobunyavirus</i>	Madrid virus (MADV)
	<i>Main Drain orthobunyavirus</i>	Main Drain virus (MDV)
	<i>Manzanilla orthobunyavirus</i>	Buttonwillow virus (BUTV)
		Cát Qué virus (CQV)
		Ingwavuma virus (INGV)
		Inini virus (INIV)
		Manzanilla virus (MANV)
		Mermet virus (MERV)
	<i>Marituba orthobunyavirus</i>	Gumbo Limbo virus (GLV)
		Marituba virus (MTBV)
		Murutucú virus (MURV)
		Nepuyo virus (NEPV)
		Restan virus (RESV)
		Zungarococha virus (ZUNV)
	<i>Minaitlán orthobunyavirus</i>	Minaitlán virus (MINTV)
		Palestina virus (PLSV)
	<i>MPoko orthobunyavirus</i>	M'Poko virus (MPOV)
		Yaba-1 virus (Y1V)
	<i>Nyando orthobunyavirus</i>	Nyando virus (NDV)
		Eretmapodites virus (ERETV)
	<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>	Facey's paddock virus (FPV)

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Genus	Species <sup>†</sup>	Virus (Abbreviation) <sup>‡</sup>
		Iquitos virus (IQTV) <sup>§</sup>
		Madre de Dios virus (MDDV)
		Oropouche virus (OROV)
		Pertôes virus (PDEV)
		Pintupo virus (PINTV)
		Utinga virus (UTIV)
		Utiwé virus (UVV = UTVEV)
	<i>Patois orthobunyavirus</i>	Abras virus (ABRV)
		Babahoya virus (BABV)
		Pahayokee virus (PAHV)
		Patois virus (PATV)
		Shark River virus (SRV)
	<i>Sathuperi orthobunyavirus</i>	Douglas virus (DOUV)
		Sathuperi virus (SATV)
	<i>Shamonda orthobunyavirus</i>	Peaton virus (PEAV)
		Sango virus (SANV)
		Shamonda virus (SHAV)
	<i>Shuni orthobunyavirus</i>	Aino virus (AINOV)
		Kaikalur virus (KAIV)
		Shuni virus (SHUV)
	<i>Simbu orthobunyavirus</i>	Oya virus (OYAV)
		Simbu virus (SIMV)
	<i>Tacaiuma orthobunyavirus</i>	CoAr 1071 virus (CA1071V)
		CoAr 3627 virus (CA3626V)
		Tacaiuma virus (TCMV)
		Virgin River virus (VRV)
	<i>Tete orthobunyavirus</i>	Bahig virus (BAHV)
		Matruh virus (MTRV)
		Tete virus (TETEV)

Genus	Species <sup>†</sup>	Virus (Abbreviation) <sup>‡</sup>
		Tsuruse virus (TSUV)
		Weldonia virus (WELV)
	<i>Thimiri orthobunyavirus</i>	Thimiri virus (THIV)
	<i>Timboteua orthobunyavirus</i>	Timboteua virus (TBTV)
	<i>Turlock orthobunyavirus</i>	Lednice virus (LEDV)
		Turlock virus (TURV)
		Umbre virus (UMBV)
	<i>Wolkberg orthobunyavirus</i>	Wolkberg virus (WBV)
	<i>Wyeomyia orthobunyavirus</i>	Anhembi virus (AMBV)
		BeAr 328208 virus (BAV)
		Cachoeira Porteira virus (CPOV)
		Iaco virus (IACOV)
		Macauá virus (MACAV)
		Rio Pracuipi virus
		Sororoça virus (SORV)
		Taiassui virus (TAIAV)
		Tucunduba virus (TUCV)
		Wyeomyia virus (WYOV)
	<i>Zegla orthobunyavirus</i>	Zegla virus (ZEGV)
<i>Shangavirus</i>	<i>Insect shangavirus</i>	Shu ngão insect virus 1 (SgIV-1)
<i>Tospovirus</i>	<i>Groundnut bud necrosis tospovirus</i>	groundnut bud necrosis virus (GBNV) <sup>11</sup>
	<i>Groundnut ringspot tospovirus</i>	groundnut ringspot virus (GRSV)
	<i>Groundnut yellow spot tospovirus</i>	groundnut yellow spot virus (GYSV) <sup>12</sup>
	<i>Impatiens necrotic spot tospovirus</i>	impatiens necrotic spot virus (INSV)
	<i>Iris yellow spot tospovirus</i>	iris yellow spot virus (IYSV)
	<i>Polygonum ringspot tospovirus</i>	Polygonum ringspot virus (PolRSV)
	<i>Tomato chlorotic spot tospovirus</i>	tomato chlorotic spot virus (TCSV)
	<i>Tomato spotted wilt tospovirus</i> *	tomato spotted wilt virus (TSWV)

Genus	Species <sup>†</sup>	Virus (Abbreviation) <sup>‡</sup>
	<i>Watermelon bud necrosis tospovirus</i>	watermelon bud necrosis virus (WBNV)
	<i>Watermelon silver mottle tospovirus</i>	watermelon silver mottle virus (WSMoV)
	<i>Zucchini lethal chlorosis tospovirus</i>	zucchini lethal chlorosis virus (ZLCV)
<b>Family Phasmaviridae</b>		
<i>Feravirus</i>	<i>Ferak feravirus</i> <sup>*</sup>	Ferak virus (FERV)
<i>Inshavirus</i>	<i>Insect inshavirus</i> <sup>*</sup>	Shu ngão insect virus 2 (SgIV-2)
<i>Jonvirus</i>	<i>Jonchet jonvirus</i> <sup>*</sup>	jonchet virus (JONV)
<i>Orthophasmavirus</i>	<i>Kigluak phantom orthophasmavirus</i> <sup>*</sup>	Kigluak phantom virus (KIGV)
	<i>Nome phantom orthophasmavirus</i>	Nome phantom virus (NOMV)
	<i>Wüchang cockroach orthophasmavirus 1</i>	Wüch ng cockroach virus 1 (WcCV-1)
	<i>Wühan mosquito orthophasmavirus 1</i>	Wühan mosquito virus 1 (WhMV-1)
	<i>Wühan mosquito orthophasmavirus 2</i>	Wühan mosquito virus 2 (WhMV-2)
<i>Wuhivirus</i>	<i>Insect wuhivirus</i> <sup>*</sup>	Wühan insect virus 2 (WhIV-2)
<b>Family Phenuiviridae</b>		
<i>Banyangvirus</i>	<i>Huayüangshan banyangvirus</i> <sup>*</sup>	severe fever with thrombocytopenia syndrome virus (SFTSV)
<i>Beidivirus</i>	<i>Dipteran beidivirus</i> <sup>*</sup>	Hüb i diptera virus 3 (HbDV-3)
<i>Goukovirus</i>	<i>Cumuto goukovirus</i>	Cumuto virus (CUMV)
	<i>Gouleako goukovirus</i> <sup>*</sup>	Gouléako virus (GOLV)
	<i>Yüchang insect goukovirus</i>	Yüch ng insect virus (YcIV)
<i>Horwavirus</i>	<i>Horsefly horwavirus</i> <sup>*</sup>	Wühan horsefly virus (WhHV)
<i>Hudivirus</i>	<i>Dipteran hudivirus</i> <sup>*</sup>	Hüb i diptera virus 4 (HbDV-4)
<i>Hudovirus</i>	<i>Lepidopteran hudovirus</i> <sup>*</sup>	Hüb i lepidoptera virus 1 (HbLV-1)
<i>Mobovirus</i>	<i>Mothra mobovirus</i> <sup>*</sup>	Mothra virus (MTHV)
<i>Phasivirus</i>	<i>Badu phasivirus</i> <sup>*</sup>	Badu virus (BADUV)
	<i>Phasi Charoen-like phasivirus</i>	Phasi Charoen-like virus (PCLV)
	<i>Wühan fly phasivirus</i> <sup>#</sup>	

Genus	Species <sup>†</sup>	Virus (Abbreviation) <sup>†</sup>
	<i>Watai mosquito phasivirus</i>	Watai mosquito virus (WtMV)
<i>Phlebovirus</i>	<i>Bujaru phlebovirus</i>	Bujaru virus (BUJV)
	<i>Munguba phlebovirus</i>	Munguba virus (MUNV)
	<i>Alenquer phlebovirus</i>	Alenquer virus (ALEV)
	<i>Ariquemes phlebovirus</i>	Ariquemes virus (ARQV)
	<i>Candirú phlebovirus</i>	Candirú virus (CDUV)
	<i>Itaituba phlebovirus</i>	Itaituba virus (ITAV)
	<i>Jacundá phlebovirus</i>	Jacundá virus (JCNV)
	<i>Maldonado phlebovirus</i>	Maldonado virus (MLOV)
	<i>Morumbi phlebovirus</i>	Morumbi virus (MR(M)BV)
	<i>Mucura phlebovirus</i>	Mucura virus (MCRV/MRAV)
	<i>Nique phlebovirus</i>	Nique virus (NIQV)
	<i>Oriximiná phlebovirus</i>	Oriximiná virus (ORXV)
	<i>Serra Norte phlebovirus</i>	Serra Norte virus (SRNV)
	<i>Turuna phlebovirus</i>	Turuna virus (TUAV)
	<i>Cacao phlebovirus</i>	Cacao virus (CACV)
	<i>Chilibre phlebovirus</i>	Chilibre virus (CHIV)
	<i>Frijoles phlebovirus</i>	frijoles virus (FRIV)
	<i>Joá phlebovirus</i>	Joá virus (JOAV)
	<i>Buenaventura phlebovirus</i>	Buenaventura virus (BUEV)
	<i>Campana phlebovirus</i>	Campana virus (CMAV)
	<i>Capira phlebovirus</i>	Capira virus (CAPIV)
	<i>Coelê phlebovirus</i>	Coelê virus (CCLV)
	<i>Leticia phlebovirus</i>	Leticia virus (LTCV)
	<i>Punta Toro phlebovirus</i>	Punta Toro virus (PTV)
	<i>Rift Valley fever phlebovirus</i> *	Rift Valley fever virus (RVFV)
	<i>Adana phlebovirus</i>	Adana virus (ADAV)
	<i>Adria phlebovirus</i>	Adria virus (ADRV)
	<i>Alcube phlebovirus</i>	Alcube virus

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Genus	Species <sup>†</sup>	Virus (Abbreviation) <sup>†</sup>
		Arbia virus (ARBV)
		Arumowot virus (AMTV)
		Medjerda Valley virus (MVV)
		Odrénisrou virus (ODRV)
		Olbia virus (OLBV)
		Salehabad virus (SALV)
		Bregalaka virus (BREV)
		Zaba virus (ZABAV)
	<i>Sandfly fever Naples phlebovirus</i>	Arrávida virus (ARRV)
		Balkan virus (BALKV)
		Fermo virus (FERV)
		Gordil virus (GORV)
		Granada virus (GRV = GRAV)
		Massilia virus (MASV)
		Punique virus (PUNV)
		Saddagua virus (SADV)
		Saint-Floris virus (SAFV)
		sandfly fever Naples virus (SFNV)
		Tehran virus (THEV)
		Toscana virus (TOSV)
		Zerdali virus (ZERV)
	<i>Uukuniemi phlebovirus</i>	Chizé virus (CHZV)
		EgAN 1825-61 virus (EGAV)
		Fin V 707 virus (FINV)
		Oceanside virus (OCV = OCEV)
		Pontevés virus (PTVV)
		St. Abbas Head virus (SAHV)
		Uukuniemi virus (UUKV)
		Zaliv Terpenyia virus (ZTV)

Genus	Species <sup>¶</sup>	Virus (Abbreviation) <sup>¶</sup>
<i>Pidchovirus</i>	<i>Pidgey pidchovirus</i> *	Pidgey virus (PGYV)
<i>Tenuivirus</i>	<i>Echinochloa hoja blanca tenuivirus</i>	Echinochloa hoja blanca virus (EHBV)
	<i>Iranian wheat stripe tenuivirus</i>	Iranian wheat stripe virus (IWSV)
	<i>Maize stripe tenuivirus</i>	maize stripe virus (MSV = MSPV)
	<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>Wubeivirus</i>	<i>Dipteran wubeivirus</i> *	Húb i diptera virus 5 (HbDV-5)
	<i>Fly wubeivirus</i>	Wühan fly virus 1 (WhFV-1)
		<b>Family <i>Wupeloviridae</i></b>
<i>Wumivirus</i>	<i>Millipede wumivirus</i> *	Wühan millipede virus 2 (WhMV-2)

Legend:

\* Asterisks denote type species.

<sup>1</sup> Junior synonyms: Cardamones virus, Hainan Medical University virus, X ngyi virus

<sup>2</sup> Synonym: Artybash virus (ARTV)

<sup>3</sup> synonym: New York 1 virus (NY-1V)

<sup>4</sup> synonym: Jurong virus

<sup>5</sup> includes the strain previously referred to as Tunis virus (TUNV)

<sup>6</sup> includes the strain previously referred to as soft tick bunyavirus (STBV)

<sup>7</sup> includes the strain previously referred to as Ganjam virus (GANV)

<sup>8</sup> synonyms: alovo virus (CVOV), Chittoor virus (CHITV), Olkya virus, Olyka virus, UgMP-6830 virus

<sup>9</sup> includes the strain previously referred to as Garissa virus

<sup>10</sup> also mistakenly referred to in the literature as Chantanga virus (CHATV) and Chatanga virus (CHATV)

<sup>11</sup> synonym: peanut bud necrosis virus (PDNV)



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<sup>12</sup> synonym: peanut yellow spot virus (PYSV).

# The virus of this species was moved into a new genus (*Wubeivirus*) and species (*Fly wubeivirus*), but due to a formal error, the species *Withan fly phasivirus* was not deleted. A taxonomic proposal to rectify this oversight has been submitted.

Caption:

# 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.