Summary of taxonomy changes ratified by the International Committee on Taxonomy of Viruses (ICTV) from the 2026 Animal DNA Viruses and Retroviruses Subcommittee

Contents

2025.001D.v3.Baculoviridae_4nsp_1absp

Title: Create four new species and abolish one current species in family *Baculoviridae*

Authors: Monique M van Oers, Adly M. M. Abd-Alla, Kelly S. Bateman, Jaime Bojko, Robert L. Harrison, Elisabeth A. Herniou, Johannes A. Jehle, Peter J. Krell, Bergmann M Ribeiro, Xiulian Sun

Summary:
Taxonomic rank(s) affected: Species

Description of current taxonomy: There are currently 68 species in the genus *Alphabaculovirus* and 29 species in the genus *Betabaculovirus* of the family *Baculoviridae*

Proposed taxonomic change(s): We propose to create three new species in the genus *Alphabaculovirus,* create one new species in the genus *Betabaculovirus,* and abolish one species in the *genus Betabaculovirus*

Justification: Analysis of recently sequenced baculovirus genomes have identified four viruses that each represent a previously undescribed baculovirus species, in accordance with the species demarcation criteria defined for the family *Baculoviridae.* Nucleotide sequences derived from isolates of *Betabaculovirus trini* and *Betabaculovirus myunipunctae* are almost completely identical, indicating that one of these species should be abolished. We have chosen to abolish *Betabaculovirus trini* due to the significant place *that* the exemplar isolate of *Betabaculovirus myunipunctae* occupies in the history of baculovirus research.

Submitted: 26/05/2025; *Revised:* 26/05/2025

TABLE 1 - *Baculoviridae*, 4 new taxa*

Operation	Rank	New taxon name	Virus name	Exemplar
New taxon	Species	*Alphabaculovirus calabietis*	Calliteara abietis nucleopolyhedrovirus	PP171514
New taxon	Species	*Alphabaculovirus mysequacis*	Mythimna sequax nucleopolyhedrovirus	MW380417
New taxon	Species	*Alphabaculovirus plidaeusalis*	Platynota idaeusalis nucleopolyhedrovirus	OQ658191
New taxon	Species	*Betabaculovirus plidaeusalis*	Platynota idaeusalis granulovirus	PP449363

TABLE 2 - *Baculoviridae*, 1 abolish taxon*

Operation	Rank	Abolished taxon name
Abolish taxon	Species	*Betabaculovirus trini*

2025.002D.v4.Nudiviridae_2ng_17ns_1mvsp

Title: Addition of novel genera and species, and reclassification of some species in the *Nudiviridae*

Authors: Jamie Bojko, Jirka Petersen, Amy Burgess, Monique Van Oers, Elisabeth Herniou, Robert L. Harrison

Summary:
Taxonomic rank(s) affected:
Genus and species

Description of current taxonomy:
The current taxonomy in place includes the *Alphanudivirus* (n=7 species), *Betanudivirus* (n=1 species), *Gammanudivirus* (n=4 species), and *Deltanudivirus* (n=1 species), within *the Nudiviridae.*

Proposed taxonomic change(s):
We propose to create two new genera, move one species to a new genus, and create 17 new species.

Justification:
New discoveries of nudiviruses from crustaceans and insects (Petersen et al. 2024) have resulted in a more diverse understanding of the *Nudiviridae.* The crustacean nudiviruses split clearly into two groups, which should be considered at the genus level for this viral family. Two new genera found to infect lice are new to science and require incorporation into the nudivirus taxonomy. In addition to the genus level amendments, there are also several species that now need to be appropriately placed into the *Alphanudivirus, Gammanudivirus,* and the two new genera, *Epsilonnudivirus* and *Zetanudivirus.*

Submitted: 29/05/2025; *Revised:* —

TABLE 3 - *Nudiviridae*, 18 new taxa*

Operation	Rank	New taxon name	Virus name	Exemplar
New taxon	Species	*Alphanudivirus apimelliferae*	Apis mellifera nudivirus	OR596894
New taxon	Species	*Gammanudivirus memercanariae*	Menippe mercenaria nudivirus	OQ725696
New taxon	Species	*Gammanudivirus casapidi*	Callinectes sapidus nudivirus	ON638996
New taxon	Species	*Gammanudivirus marosenbergii*	Macrobrachium rosenbergi nudivirus	MW484891
New taxon	Species	*Gammanudivirus arapsonii*	Aratus pisonii nudivirus	ON061174
New taxon	Species	*Gammanudivirus pevannamei*	Penaeus vannamei nudivirus	OM066077
New taxon	Genus	*Epsilonnudivirus*		
New taxon	Species	*Epsilonnudivirus dikhaemobaphes*	Dikerogammarus haemobaphes nudivirus	MT488302
New taxon	Species	*Epsilonnudivirus faxopropinqui*	Faxonius propinquus nudivirus	PP539709

New taxon	Species	*Epsilonnudivirus faxovirilis*	Faxonius virilis nudivirus	PP539710
New taxon	Species	*Epsilonnudivirus faxorustici*	Faxonius rusticus nudivirus	PP539711
New taxon	Genus	*Zetanudivirus*		
New taxon	Species	*Zetanudivirus hespinigeri*	Heterodoxus spiniger nudivirus	BK068078
New taxon	Species	*Zetanudivirus laperplexi*	Lagopoecus perplexus nudivirus	BK068079
New taxon	Species	*Zetanudivirus cucafricani*	Cuculoecus africanus nudivirus	BK068074
New taxon	Species	*Zetanudivirus echiclaytoni*	Echinophilopterus claytoni nudivirus	BK068075
New taxon	Species	*Zetanudivirus fraroseicapillae*	Franciscoloa roseicapillae nudivirus	BK068077
New taxon	Species	*Zetanudivirus myptilorhynchi*	Myrsidea ptilorhynchi nudivirus	BK068080

TABLE 4 - *Nudiviridae*, 1 move; rename taxon*

Operation	Rank	New taxon name	Old taxon name	New parent taxon	Old parent taxon
Move; rename taxon	Species	*Epsilonnudivirus cracrangonis*	*Gammanudivirus cracrangonis*	*Epsilonnudivirus*	*Gammanudivirus*

2025.003D.v3.Iridoviridae_1ng_1ns

Title: Creation of one new genus *(Bivalveiridovirus)* with one new species *(Bivalveiridovirus cerastoderma1)* in the subfamily *Betairidovirinae*

Authors: Chantelle Hooper, Anna M Tidy, Ron Jessop, Kelly S Bateman, Matthew J Green, Stuart H Ross, Georgia M Ward, Richard Hazelgrove, Jasmine E Hunt, Megan Parker, David Bass

Summary:Taxonomic rank(s) affected:
Formation of a novel genus within *Betairidovirinae* containing a single confirmed species.

Description of current taxonomy:
The subfamily *Betairidovirinae* currently contains four genera, with its members primarily infecting invertebrate hosts.

Proposed taxonomic change(s):
Formation of the novel genus *Bivalveiridovirus* within *Betairidovirinae* and the recognition of novel iridovirus species *Bivalveiridovirus cerastoderma1.*

Justification:
Generation of the complete genome of a novel iridovirid from cockles *(Cerastoderma edule)* and determination of its tropism within the tissues of infected animals represents the most complete description of a bivalve-infecting iridovirid to date. The genome size and G+C% content of *Bivalveiridovirus cerastoderma1* was similar to other *Betairidovirinae.* Pathology of infection with *Bivalveiridovirus cerastoderma1* in cockles was similar to that described for *Decapodiridovirus litopenaeus1* infection in shrimp tissues, and icosahedral virions, typical of iridovirids, were observed in the cytoplasm of infected cockle haemocyte cells. Comparison of the amino acid sequence from conserved iridovirid genes in *Bivalveiridovirus cerastoderma1* to other iridovirids showed 76.36% amino acid similarity to the nearest iridovirus in the major capsid protein (MCP) and 65.46% in the AAA-ATPase protein. Phylogenetically, *Bivalveiridovirus cerastoderma1* branches within

Betairidovirinae, but as a separate clade to other recognised genera.

Based on the host range, phylogenetic position, and sequence similarity of this novel virus to known iridovirids, we propose the construction of a new genus, designated *Bivalveiridovirus,* to indicate its infectivity toward a species within the Bivalvia class of animals, and that it be considered a fifth genus within the subfamily *Betairidovirinae.*

Submitted: 03/12/2025; *Revised:* —

TABLE 5 - *Iridoviridae*, 2 new taxa*

Operation	Rank	New taxon name	Virus name	Exemplar
New taxon	Genus	*Bivalveiridovirus*		
New taxon	Species	*Bivalveiridovirus cerastoderma1*	Bivalve iridovirus 1	PQ846775

2025.004D.v3.Adenoviridae_20ns

Title: Create 20 new species in the genera *Aviadenovirus, Mastadenovirus* and *Siadenovirus (Rowavirales: Adenoviridae)*

Authors: Balázs Harrach, Mária Benkő, Győző L. Kaján, Thomas S. Postler, Arvind Varsani, Márton Z. Vidovszky, ,

Summary:
Taxonomic rank(s) affected:
Species

Description of current taxonomy:
125 species in 6 genera in the *family Adenoviridae.*

Proposed taxonomic change(s):
Adding 20 new species; 16 to genus *Mastadenovirus,* 3 to *Siadenovirus,* 1 to *Aviadenovirus;* correcting two minor typing errors in the names of two mastadenovirus species.

Justification:
Novel adenovirus sequences have been submitted to GenBank, reflecting very rich diversity (https: //sites.google.com/site/adenoseq). From these sequences, 20 full or almost full (coding-complete) vertebrate adenovirus genomes originating from 13 mammalian, 3 avian and 1 turtle species merit the establishment of new species for them. The phylogenetic distance of their DNA polymerase amino acid sequences shows adequate evolutionary distance to members of accepted adenovirus species (Fig. 1). A divergence in pairwise amino acid identity of the DNA polymerase sequence exceeding 15% is the main demarcation criterion. In case of 14-15% pairwise identity divergence, other criteria (e.g. different host species, genome organization or whole-genome GC% difference) and the monophyletic clustering of the available pol sequences helped to classify the adenoviruses into species.

Submitted: 06/09/2025; *Revised:* 31/08/2025

TABLE 6 - *Adenoviridae*, 20 new taxa*

Operation	Rank	New taxon name	Virus name	Exemplar

New taxon	Species	*Mastadenovirus hylobatidae*	simian adenovirus 57 (gibbon adenovirus)	OP921948
New taxon	Species	*Mastadenovirus pollicis*	simian adenovirus 58 (black-and-white colobus adenovirus 4)	PP985428
New taxon	Species	*Mastadenovirus bestiae*	simian adenovirus 60	PQ490709
New taxon	Species	*Mastadenovirus aethiopiense*	simian adenovirus 61	PQ490710
New taxon	Species	*Mastadenovirus sanguineicordis*	simian adenovirus 64	PQ490717
New taxon	Species	*Mastadenovirus geladae*	simian adenovirus 65	PQ490713
New taxon	Species	*Mastadenovirus mastomysis*	murine adenovirus 4	PQ490628
New taxon	Species	*Mastadenovirus eliomysis*	garden dormouse adenovirus 1	PQ576919
New taxon	Species	*Mastadenovirus rattasiense*	tanezumi rat adenovirus 1 (Yunan rodent adenovirus 1)	PQ678060
New taxon	Species	*Mastadenovirus eothenomysis*	Kachin red-backed vole adenovirus 1 (Yunan rodent adenovirus 2)	PQ678115; PQ678116
New taxon	Species	*Mastadenovirus kuhlii*	Kuhl's pipistrelle adenovirus MAG44	PP410068
New taxon	Species	*Mastadenovirus ferrumequini*	greater horseshoe bat adenovirus MAG47	PP410069
New taxon	Species	*Mastadenovirus noctulae*	common noctule adenovirus Quixote	PP297886
New taxon	Species	*Mastadenovirus portugalense*	bat adenovirus F45	PV383552
New taxon	Species	*Mastadenovirus himalaiense*	Himalayan wiskered bat adenovirus 1	OR998961
New taxon	Species	*Mastadenovirus arundinis*	greater bamboo bat adenovirus	OR998870
New taxon	Species	*Siadenovirus columbae*	pigeon adenovirus 4	PP999621
New taxon	Species	*Siadenovirus sulawense*	Sulawesi adenovirus 1 (Chinese soft-shelled turtle adenovirus)	PQ083072
New taxon	Species	*Siadenovirus coturnicis*	quail adenovirus 1	PV175342
New taxon	Species	*Aviadenovirus cinerei*	Timneh grey parrot adenovirus 1	OR096706

TABLE 7 - *Adenoviridae*, 2 rename taxa*

Operation	Rank	New taxon name	Previous taxon name
Rename taxon	Species	*Mastadenovirus asiense*	*Mastadenovirus asiensse*
Rename taxon	Species	*Mastadenovirus rhinolophidae*	*Mastadenovirus rhinolopidae*

2025.005D.Ac.v4.Parvoviridae_1absf_4nsf_39ns

Title: Abolition of a subfamily, establishment of four new subfamilies and classifying 39 new species in the *Parvoviridae* family

Authors: Judit J Penzes, Marta Canuti, Maria Söderlund-Venermo, Sarah Francois, Peter Tijssen, Jianming Qiu, Anna M Eis-Hübinger,

Summary:
Taxonomic rank(s) affected:

Subfamily, genus, species

Description of current taxonomy:
The *Parvoviridae* is currently composed of three subfamilies. Two of these, the *Parvovirinae* and the *Densovirinae,* are clearly monophyletic and are united by biological synapomorphies. The subfamily *Hamaparvovirinae* was established in 2019, albeit even at that time it was regarded as an extremely heterogenous subfamily, especially in comparison to the other two subfamilies. This heterogeneity has now matured to be characterized in more detail and recognize the individual lineages it has been keeping together.

Proposed taxonomic change(s):
Here, we suggest the abolition of the subfamily *Hamaparvovirinae* and the establishment of three subfamilies in its wake, designated *Hamavirinae, Penbrevirinae,* encompassing two of the current *Hamaparvovirinae* genera each, and the monotypic *Hepanvirinae.* We also propose the elevation of the currently floating genus, *Metalloincertoparvovirus,* to the subfamily rank, with a single monotypic genus. Furthermore, we propose the establishment of two new monotypic genera within the newly founded *Hamavirinae,* which would be called *Embehamavirus* and *Coluhamavirus,* respectively. Lastly, we propose the establishment of 36 new species in the newly established *Chaphamavirus* genus and one new species within the *Diciambidensovirus* genus of the *Densovirinae* subfamily. We will also retrospectively apply the binomial nomenclature to the *Miniambidensovirus* species, containing Acheta domesticus mini ambidensovirus.

Justification:
The proposed changes will result in six monophyletic subfamilies within the *Parvoviridae,* which are also supported with biological traits, including their non-structural and structural protein sequence homology, virion surface morphology and structural protein fold. Furthermore, this classification system will create a more flexible framework, which has the capability of adopting future novel divergent entries.

Submitted: 06/07/2025; *Revised:* —

TABLE 8 - *Parvoviridae*, 46 move; rename taxa*. Table too large, see supplementary information sheet supp_info_tab_8

TABLE 9 - *Parvoviridae*, 44 new taxa*. Table too large, see supplementary information sheet supp_info_tab_9

TABLE 10 - *Parvoviridae*, 4 rename taxa*

Operation	Rank	New taxon name	Previous taxon name
Rename taxon	Genus	*Brevipenbrevirus*	*Brevihamaparvovirus*
Rename taxon	Species	*Brevipenbrevirus dipteran1*	*Brevihamaparvovirus dipteran1*
Rename taxon	Species	*Brevipenbrevirus dipteran2*	*Brevihamaparvovirus dipteran2*
Rename taxon	Species	*Miniambidensovirus orthopteran1*	*Orthopteran miniambidensovirus 1*

TABLE 11 - *Parvoviridae*, 1 abolish taxon*

Operation	Rank	Abolished taxon name
Abolish taxon	Subfamily	*Hamaparvovirinae*

2025.006D.v3.Bidnaviridae_1rns

Title: Rename one species in the family *Bidnaviridae*

Authors: Judit J Pénzes, Peter Tijssen, Mart Krupovic, Mylène Ogliastro, Qin Yao, Varsani Arvind, ,

Summary:
Taxonomic rank(s) affected:
Species

Description of current taxonomy:
Monodnaviria; Shotokuvirae; Cossaviricota; Mouviricetes; Polivirales; Bidnaviridae; Bidensovirus; Bombyx mori bidensovirus

Proposed taxonomic change(s):
One species is renamed to conform to the binomial format mandated by the ICTV.

Justification:
Bombyx mori *bidensovirus* is the only species in the genus *Bidensovirus* (family *Bidnaviridae).* This species name does not adhere to the binomial species naming format and thus here we propose to rename it to *Bidensovirus bombymori.*

Submitted: 06/11/2025; *Revised:* —

TABLE 12 - *Bidnaviridae*, 1 rename taxon*

Operation	Rank	New taxon name	Previous taxon name
Rename taxon	Species	*Bidensovirus bombymori*	*Bombyx mori bidensovirus*

2025.007D.v4.Whispovirus_1nsp

Title: Creation of new species *"Whispovirus lacteolymphae"* in *Nimaviridae*

Authors: Satoshi Kawato, Tadashi Isshiki, Ikuo Hirono

Summary:Taxonomic rank(s) affected:
Species.

Description of current taxonomy:
The family *Nimaviridae* currently includes one species: *White* spot syndrome *virus,* which belongs to the *genus Whispovirus.*

Proposed taxonomic change(s):
Create *"Whispovirus lacteolymphae",* a new species within genus *Whispovirus in Nimaviridae.*

Justification:
Chionoecetes opilio bacilliform virus (CoBV), which was initially described as the causative agent of the milky hemolymph disease in the snow *crab (Chionoecetes opilio)* in the Sea of Japan (Kon et al., 2011; Motobayashi et al., 2018), has recently been characterized at the genomic level (Kawato et al., 2023). CoBV possesses a circular, double-stranded DNA genome ranging 240 kbp in size with 105

predicted protein-coding genes, including 76 WSSV orthologs (Kawato et al., 2023). Phylogenetic analysis using conserved naldaviral core genes (Kawato et al., 2019; 2023) confirms the placement of CoBV within the family *Nimaviridae.* Nimaviral core gene phylogeny (Kawato et al., 2024) and Jaccard similarity clustering based on shared orthologs (File S1) both support a coherent grouping of CoBV with WSSV. Taken together, although CoBV is substantially divergent from WSSV (average amino acid identity: 34.7%; File S1), its position within the overall diversity of *Nimaviridae* is consistent with inclusion in the genus *Whispovirus.* Therefore, we propose the creation of a new species, *"Whispovirus lacteolymphae",* to accommodate CoBV.

Submitted: 18/06/2025; *Revised:* 26/08/2025

TABLE 13 - *Whispovirus*, 1 new taxon*

Operation	Rank	New taxon name	Virus name	Exemplar
New taxon	Species	*Whispovirus lacteolymphae*	Chionoecetes opilio bacilliform virus	LC741431

2025.008D.v3.Whispovirus_1rns

Title: Rename one species in the genus *Whispovirus*

Authors: Arvind Varsani, Mart Krupovic, Sead Sabanadzovic, , , , ,

Summary:
Taxonomic rank(s) affected:
Species

Description of current taxonomy:
Naldaviricetes; Nimaviridae; Whispovirus; White spot syndrome virus

Proposed taxonomic change(s):
Rename one species to conform to the ICTV binomial format.

Justification:
The family *Nimaviridae* currently has one genus and withing this genus, there is a single classified species - *White* spot syndrome *virus.* The species name, *White* spot syndrome *virus,* is not in binomial format. Thus, we propose renaming it to *"Whispovirus xiabaidian".*

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TABLE 14 - *Whispovirus*, 1 rename taxon*

Operation	Rank	New taxon name	Previous taxon name
Rename taxon	Species	*Whispovirus xiabaidian*	*White spot syndrome virus*