

**Part 1:** **TITLE, AUTHORS, APPROVALS, etc**

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| **Code assigned:** | ***2023.024M*** |  |
| **Short title:** Promote order *Bunyavirales* to class and split the class into two orders; add one family, three genera, and seven species; and move and rename one species |
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**Author(s) and email address(es)**

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| --- | --- |
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**Corresponding author**

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**List the ICTV Study Group(s) that have seen this proposal**

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| ICTV *Ellioviricetes* Study Group |

**ICTV Study Group comments and response of proposer**

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**ICTV Study Group votes on proposal**

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| **Study Group** | **Number of members** |
| **Votes support** | **Votes against** | **No vote** |
| ICTV *Ellioviricetes* Study Group | 13 | 0 | 0 |

**Authority to use the name of a living person**

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| **Is any taxon name used here derived from that of a living person (Y/N)** | N |

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| **Taxon name** | **Person from whom the name is derived** | **Permission attached (Y/N)** |
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**Submission dates**

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| Date first submitted to SC Chair | June 23, 2023 |
| Date of this revision (if different to above) |  |

**ICTV-EC comments and response of the proposer**

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**Part 2:** **NON-TAXONOMIC PROPOSAL**

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**Part 3:** **TAXONOMIC PROPOSAL**

**Name of accompanying Excel module**

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| 2023.024M.N.v1.Bunyaviricetes.xlsx |

**Abstract**

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| We propose split order *Bunyavirales* into two orders, *Elliovirales* and *Hareavirales*, included in a common class *Bunyaviricetes*. We further propose to expand the class by one additional family, three genera, and seven new species, and to move and rename one species. |

**Text of proposal**

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| Order *Bunyavirales* (*Riboviria*: *Negarnaviricota*: *Polyploviricotina*) is currently the only order in class *Ellioviricetes* and includes 14 established families. In RNA-directed RNA polymerase phylogenies, these 14 families separate into two clearly distinguishable clades: *Cruliviridae*, *Fimoviridae*, *Hantaviridae*, *Peribunyaviridae*, *Phasmaviridae*, *Tospoviridae*, and *Tulasviridae* in one clade, and *Arenaviridae*, *Discoviridae*, *Leishbuviridae*, *Mypoviridae*, *Nairoviridae*, *Phenuiviridae*, and *Wupedeviridae* in the other clade (Fig. 1-Supplementary File). For taxonomy to reflect this separation, we propose to split the order into two, one for each clade. Because of the historic significance of the term “bunyavirus” for members of certain families distributed among both clades, we propose to rename the current class *Ellioviricetes* as *Bunyaviricetes*, but to maintain the *Ellio*- word stem for the order including the family most associated with the late Richard Elliot (after whom the class was named): *Peribunyaviridae*. We propose the name *Hareavirales* for the other order after the Basque word for “sand”, a tongue-in-cheek reference to arenavirids (arena being Spanish for sand) and sandfly-borne phenuivirids.Several coding-complete genome sequences of unclassified bunyaviricetes are already available in GenBank; per the analysis in Fig. 1-Supplementary File we support the establishment of a new family, *Konkoviridae*, including a single genus with one species for tulip streak virus (see also simultaneously submitted TaxoProp by Neriya *et al*.; the tree is currently ambiguous on whether the included genus represents a new family or should be a member of *Leishbuviridae* but because leishubuvirids have been exclusively found in protists, whereas tulip streak virus is undoubtedly a plant virus, we find a new family appropriate. In addition, we support the addition of one new genus in family *Phenuiviridae* for various fungal viruses (see also simultaneously submitted TaxoProp by Ayllon *et al*.); one new genus with one new species in family *Tulasviridae*; and one new species in crulivirid genus *Lincruvirus*. |

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**Supporting evidence**

Figure 1-Supplementary file. Phylogenetic tree using FastTree after MUSCLE alignment (with maxiters 100) of full-length GenBank large (L) protein (containing RNA-directed RNA polymerase domain) sequences. Highlighted are the proposed orders *Elliovirales* (cyan) and *Hareavirales* (purple), with new taxa proposed here in black, boldened, and marked by asterisks. Unclassified viruses are in black.

