



This form should be used for all taxonomic proposals. Please complete all those modules that are applicable (and then delete the unwanted sections). For guidance, see the notes written in blue and the separate document "Help with completing a taxonomic proposal"

Please try to keep related proposals within a single document; you can copy the modules to create more than one genus within a new family, for example.

MODULE 1: **TITLE, AUTHORS, etc**

| | | | | | |
|---|---------------------------------------|---------------------------------------|----------------------------|---------------------------------------|----------------------------|
| Code assigned: | 2010.011aP | (to be completed by ICTV officers) | | | |
| Short title: Remove the two species unassigned in the virus 'kingdom' (e.g. 6 new species in the genus <i>Zetavirus</i>) | | | | | |
| Modules attached (modules 1 and 9 are required) | 1 <input checked="" type="checkbox"/> | 2 <input type="checkbox"/> | 3 <input type="checkbox"/> | 4 <input type="checkbox"/> | 5 <input type="checkbox"/> |
| | 6 <input type="checkbox"/> | 7 <input checked="" type="checkbox"/> | 8 <input type="checkbox"/> | 9 <input checked="" type="checkbox"/> | |

Author(s) with e-mail address(es) of the proposer:

Mike Adams (mike.adams@bbsrc.ac.uk)

List the ICTV study group(s) that have seen this proposal:

A list of study groups and contacts is provided at <http://www.ictvonline.org/subcommittees.asp> . If in doubt, contact the appropriate subcommittee chair (fungal, invertebrate, plant, prokaryote or vertebrate viruses)

ICTV-EC or Study Group comments and response of the proposer:

Date first submitted to ICTV:

Date of this revision (if different to above):

MODULE 7: **REMOVE and MOVE**

Use this module whenever an existing taxon needs to be removed:

- Either to abolish a taxon entirely (when only part (a) needs to be completed)
- Or to move a taxon and re-assign it e.g. when a species is moved from one genus to another (when BOTH parts (a) and (b) should be completed)

Part (a) taxon/taxa to be removed or moved

| | | |
|--|-------------------|-----------------------------|
| Code | 2010.011aP | (assigned by ICTV officers) |
| To remove the following taxon (or taxa) from their present position: | | |
| <i>Hawaiian rubus leaf curl virus</i> <i>Pigeon pea sterility mosaic virus</i> | | |
| The present taxonomic position of these taxon/taxa: | | |
| Genus: | <i>Unassigned</i> | Fill in all that apply. |
| Subfamily: | <i>Unassigned</i> | |
| Family: | <i>Unassigned</i> | |
| Order: | <i>Unassigned</i> | |
| If the taxon/taxa are to be abolished (i.e. not reassigned to another taxon) write "yes" in the box on the right | | YES |

Reasons to justify the removal:

Explain why the taxon (or taxa) should be removed

These two species were created prior to the publication of the 8th report and are anomalous because they were recognized as species but not allocated to any higher taxon. No proposal would be accepted on this basis today and there is insufficient information to re-classify them with certainty (either in existing genera/families or into new taxa). This proposal seeks to rectify this by removing species status from these two viruses.

Hawaiian rubus leaf curl virus:

There is a single publication on this virus which was detected when symptomless blackberry was grafted onto *Rubus macraei*, and symptoms of severe leaf curling occurred. Unusual structures identified as possible virus particles were observed in both symptomless and obviously diseased plants (Jones et al., 2004). There are no sequence data and no current research interest.

Pigeon pea sterility mosaic virus:

This virus is better-known (e.g. Kulani et al., 2002; Kumar et al., 2002) and is the agent of a significant disease of pigeon pea in the Indian subcontinent. It is transmitted by eryophid mites and appears to have a divided RNA genome. A short sequence (AJ439561) containing a putative ORF of 100aa has been determined. This is sufficient to suggest that it may be a fragment of the nucleocapsid protein of a virus related to (the mite-transmitted) European mountain ash ringspot-associated virus, the type member of the recently created ssRNA-genus *Emaravirus* but that it has one of more sequencing errors causing an apparent frame-shift. Authors of the genus *Emaravirus* section prepared for the ICTV 9th report would like to include PPSMV as a virus that is a possible member of the genus but full species status seems premature.

MODULE 9: **APPENDIX**: supporting material

additional material in support of this proposal

References:

Jones, A.T., Roberts, I.M., McGavin, W.J. (2004). Unusual filamentous virus-like particles in symptomless blackberry associated with severe leaf curling in the virus indicator *Rubus macraei*, and anomalous data using a degenerate badnavirus primer in PCR of *Rubus* species. *Ann. Appl. Biol.*, **144**, 87-94.

Kulkani, N.K., Kumar, P.L., Muniyappa, V., Jones, A.T. and Reddy, D.V.R. (2002).

Transmission of Pigeonpea sterility mosaic virus by the Eriophyid mite *Aceria cajani* (Acari: Arthropoda). *Ann. Appl. Biol.*, **140**, 87-96.

Kumar, P.L., Duncan, G.H., Roberts, I.M., Jones, A.T. and Reddy, D.V.R. (2002). Cytology of pigeonpea sterility mosaic virus in pigeonpea and *Nicotiana benthamiana*: similarities with those of eriophyid mite-borne agents of undefined etiology. *Phytopathology*, **93**, 71-81.

Annex:

Include as much information as necessary to support the proposal, including diagrams comparing the old and new taxonomic orders. The use of Figures and Tables is strongly recommended but direct pasting of content from publications will require permission from the copyright holder together with appropriate acknowledgement as this proposal will be placed on a public web site. For phylogenetic analysis, try to provide a tree where branch length is related to genetic distance.
