

Template for Taxonomic Proposal to the ICTV Executive Committee Creating Unassigned Species in an existing Family

Code[†] To remove the following as unassigned species in the family:

[†] Assigned by ICTV officers

[°] leave blank if inappropriate or in the case of an unassigned genus

Author(s) with email address(es) of the Taxonomic Proposal

Old Taxonomic Order

Order

Family

Unassigned Species in the family

New Taxonomic Order

Order

Family

Unassigned Species in the family

ICTV-EC comments and response of the SG

Species demarcation criteria in the genera



Argumentation to justify the designation of unassigned species in the family

The Committee recommends that Strawberry mild yellow edge associated virus be removed from the list of unassigned members of the *Luteoviridae*. The current ICTV report lists Strawberry mild yellow edge virus as a *Potexvirus* and Strawberry mild yellow edge associated virus as an unassigned member of the *Luteoviridae*. In the literature, both names have been used to describe potexviruses. A potexvirus has been shown to induce characteristic symptoms in strawberry plants, but it is not aphid transmissible - a trait normally associated with the disease. A luteovirus was thought to facilitate aphid transmission of the potexvirus. In 1993, Hadidi et al (Plant Disease 77:595-601) detected a luteovirus in strawberry plants with mild yellow edge symptoms by RT-PCR. Since then, both Robert Martin and Wilhelm Jelkmann have repeatedly attempted to detect a luteovirus by RT-PCR in plants infected with aphid-transmissible strawberry mild yellow edge using a variety of family specific primers, but have failed to confirm the initial report. Both concluded that a helper virus seems to be involved in potentiating aphid transmission of Strawberry mild yellow edge virus, but it probably is not a luteovirus. Consequently, it has been proposed that Strawberry mild yellow edge associated virus be removed from the list of unassigned species within the *Luteoviridae*.

List of created Unassigned Species in the family

Tobacco vein distorting virus (TVDV)

References

Li, F., Ma, K.L., Robinson, D., Ndowora, T. and Chen, H. (2004) cDNA cloning and sequence analysis of the RNA-dependent RNA polymerase gene of tobacco bushy top virus isolate A2. GenBank AJ704819.

Li, F. and Chen, H. (2003) cDNA cloning and sequence analysis of coat protein and movement protein gene of tobacco vein-distorting virus. GenBank TVE575129.

Li, F., Qian, N., Zhou, X., Wu, J. and Chen, H. (2003) DNA cloning and sequence analysis of the RdRp gene of a Yunnan isolate of tobacco vein-distorting virus. Yunnan Nongye Daxue Xuebao 18, 212-212 (TVE459320).

Li, F., Qian, N., Yang, G., Wu, J., Zhou, X. and Chen, H. (2002) cDNA cloning and sequence analysis of the coat protein gene of tobacco vein-distorting virus. Yunnan Nongye Daxue Xuebao 17, 440-441 (TVE457176).

Annexes: