Taxonomic proposal to the ICTV Executive Committee

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"

Code assigned:	*2007.024-026P*	(to be completed by ICTV officers)

Short title: Creation of new family Gammaflexiviridae
(e.g. 6 new species in the genus *Zetavirus*; re-classification of the family *Zetaviridae* etc.)

Modules attached
(please check all that apply): 1 ☐ 2 ☐ 3 ☐ 4 ☐ 5 ☒ 6 ☐ 7 ☐

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

Mike Adams (mike.adams@bbsrc.ac.uk) on behalf of the Flexiviridae SG and
Jan Kreuze (j.kreuze@cgiar.org)

If the proposal has been seen and agreed by the relevant study group(s) write "yes" in the box on the right	**YES**

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

The original (2007) proposal was to create a new subfamily Gammaflexivirinae within the family Flexiviridae and to assign the families Flexiviridae and Tymoviridae in the new order Tymovirales. As a result of EC discussion and comments, the Study Group has agreed to split the Flexiviridae into three families and thus create an order with four families. This therefore becomes a proposal to create a new family Gammaflexiviridae.

Date first submitted to ICTV: 08 June 2007
Date of this revision (if different to above): 20 Aug 2008

MODULE 5: **NEW FAMILY**

Code	*2007.024P*	(assigned by ICTV officers)

To create a new family containing genera resembling: *Mycoflexivirus*

Code	*2007.025P*	(assigned by ICTV officers)

To name the new family: *Gammaflexiviridae*

Code	*2007.026P*	(assigned by ICTV officers)

To assign the following as genera in the new family:

Mycoflexivirus (proposed new genus see proposal **2007.006-009P.A.Mycoflexivirus**)

Reasons to justify the creation of a new family:.

See the proposal for the order *Tymovirales* **[2007.027-029P.A.Tymovirales**] for a general justification of the order and the proposed division of the current family *Flexiviridae* into new families.

The proposed family *Gammaflexiviridae* contains the single, monotypic genus *Mycoflexivirus*. Because of the flexuous filamentous capsid and the coat protein phylogeny, this genus is best named as a flexivirus although its replicase is marginally more closely related to those of the family *Tymoviridae* in phylogenetic analyses.

Origin of the new family name:

Continues the series of family names given to viruses previously classified in the *Flexiviridae*. BotV-F has flexuous virions and phylogenetic analysis places it within the new order *Tymovirales* (see *Tymovirales proposal* [2007.027-029P.A.Tymovirales]) so the name expresses these relationships.

References:

Howitt RLJ, Beever RE, Pearson MN, Forster RLS (2001) Genome characterization of Botrytis virus F, a flexuous rod-shaped mycovirus resembling plant 'potex-like' viruses. *Journal of General. Virol*ogy **82,** 67-78.

Martelli G, Adams MJ, Kreuze JF, Dolja VV (2007) Family *Flexiviridae*: a case study in virion and genome plasticity. *Annual Review of Phytopathology* **45,** 73-100.

Annex:

Include as much information as necessary to support the proposal. The use of Figures and Tables is strongly recommended.

See the related proposals to create the families ***Alphaflexiviridae*** [2007.018-020P.A.Alphaflexiviridae] and ***Betaflexiviridae*** [2007.021-023P.A.Betaflexiviridae] and an order ***Tymovirales*** [2007.027-029P.A.Tymovirales]