

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:	2013.002	2a-cP		(to be con officers)	mpleted by	ICTV
Short title: 4 new species in the (e.g. 6 new species in the genus A Modules attached (modules 1 and 9 are required)		flexiviridae   1 🖂 6 🗖	2 🔀 7 🗌	3 8	4 🗌 9 🖂	5 🗌

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

Jan Kreuze (j.kreuze@cgiar.org) on behalf of the Flexiviridae SG

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

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

Flexiviridae SG

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

Date first submitted to ICTV: Date of this revision (if different to above): June 2013

## MODULE 2: NEW SPECIES

creating and naming one or more new species.

If more than one, they should be a group of related species belonging to the same genus. All new species must be placed in a higher taxon. This is usually a genus although it is also permissible for species to be "unassigned" within a subfamily or family. Wherever possible, provide sequence accession number(s) for one isolate of each new species proposed.

Code	2013.	.002aP	(assigned by	ICTV officers)
To create 2	new spe	ecies within:		
~ .	Genus:	unassigned		<ul><li>Fill in all that apply.</li><li>If the higher taxon has yet to be created (in a later module, below)</li></ul>
	ofamily: Family:	Betaflexiviridae		write " <b>(new)</b> " after its proposed name.
	Order:	Tymovirales		<ul> <li>If no genus is specified, enter "unassigned" in the genus box.</li> </ul>
And name	the new	species:		GenBank sequence accession number(s) of reference isolate:
Diuris virus Diuris virus				JX173276 JX173277

### **Reasons to justify the creation and assignment of the new species:**

Explain how the proposed species differ(s) from all existing species.

- If species demarcation criteria (see module 3) have previously been defined for the genus, explain how the new species meet these criteria.
- If criteria for demarcating species need to be defined (because there will now be more than one species in the genus), please state the proposed criteria.
- Further material in support of this proposal may be presented in the Appendix, Module 9

The family *Betaflexiviridae* contains viruses with flexuous filamentous virions that infect plants They share a distinct lineage of alphavirus-like replication proteins that is unusual in lacking any recognized protease domain. Throughout the family, isolates of different species should have less than about 72% nt identity (or 80% aa identity) between their respective CP or polymerase genes. Viruses from different genera usually have less than about 45% nt identity in these genes.

Table 1: Distinguishing properties of genera in the family *Betaflexiviridae* 

Genus	Virion length (nm)	ORFs	Repa	MP(s) <sup>b</sup>	CPc
Capillovirus	640-700	2	210-245	30K	25-27
Carlavirus	610-700	6	215-225	TGB	32-36
Citrivirus	960	3	227	30K	41
Foveavirus	800+	5	230-250	TGB	28-44
Trichovirus	640-890	3 or 4	215-220	30K	21-24
Vitivirus	725785	5	190-200	30K	18-22

<sup>a</sup>Rep, Replication protein size (kDa).

<sup>b</sup>MP, Movement protein either of the "30K" superfamily or a triple gene block (TGB).

<sup>c</sup>CP, Coat protein size (kDa).

Diuris virus A and Diuris virus B (DiVA, DiVB; Wylie et al., 2013)

These viruses were identified by mRNA sequencing from Diuris orchids. Their genome structure is similar to Capilloviruses and *Hardenbergia virus A* (HarVA) to which they are most similar and which is unclassified within the family *Betaflexiviridae* The two viruses were found coinfecting the same orchid plant. Both were inoculated to a range of experimental host plants, including *N. benthamiana, N. glutinosa, Chenopodium amaranticolor* and *C. quinoa*. No systemic infection was obtained on non-orchids but local lesions develop on both *Chenopodium* species and fragments of both viruses are readily amplified from these lesions by RT-PCR (Steve Wylie, personal communication). *Apple stem grooving virus* (ASGV), the type capillovirus, is not closely related to *Cherry virus A*, HarVA, DiVA and DiVB. Thus, until more related virus sequences become available so as to confidently be able to decide if these viruses should be classified as capilloviruses or perhaps a new genus, it is recommended to accept these viruses as unclassified species within the family *Betaflexiviridae* 

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Code 20	)13.002bP	(assigned by ICTV officers)
To create 1	new species within:	
		Fill in all that apply.
Genu	s: Foveavirus	<ul> <li>If the higher taxon has yet to be created (in a later module, below) write</li> </ul>
Subfamil	y:	"(new)" after its proposed name.
Famil	y: Betaflexiviridae	If no genus is specified, enter
Orde	r: Tymovirales	" <b>unassigned</b> " in the genus box.
And name	the new species:	GenBank sequence accession number(s) of reference isolate:
Rubus cana	densis virus 1	JX277553

#### **Reasons to justify the creation and assignment of the new species:**

- Explain how the proposed species differ(s) from all existing species. o If species demarcation criteria (see module 3) have previously been defined for the
  - genus, explain how the new species meet these criteria.
  - If criteria for demarcating species need to be defined (because there will now be more than one species in the genus), please state the proposed criteria.
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Rubus canadensis virus 1 (RuCV-1, Abou Ghanem-Sabanadzovic et al., 2013).

Clearly this is a distinct Foveavirus (<52% aa identity over replicase protein to related viruses). Sequenced from a plant showing mild virus-like symptoms and containing flexuous filamentous virions. RT-PCR from 230 blackberry samples detected RuCV-1 in only one additional plant and showed 98% sequence similarity.

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Code 201	3.002cP	(assigned by ICTV	' offic	cers)
To create 1 n	ew species within:			
Conver	17:4:			in all that apply. the higher taxon has yet to be
Genus: Subfamily:	Vitivirus		cre	eated (in a later module, below) write <b>new)</b> " after its proposed name.
Family:	Betaflexiviridae			no genus is specified, enter
Order:	Tymovirales			nassigned" in the genus box.
And name the	e new species:			GenBank sequence accession number(s) of reference isolate:
Grapevine vir	us F			JX105428

#### **Reasons to justify the creation and assignment of the new species:**

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Grapevine virus F (GVF; Al Rwahnih et al., 2012)

Sequenced from dsRNA from black grape accession AUD46129. Bioassay of that accession resulted in death within 1 to 2 years of Cabernet Sauvignon plants propagated on Freedom, 420A, 3309C, and 101-14 rootstocks. ORFs 1 through 5 shared 31 to 49%, 8 to 26%, 28 to 47%, 40 to 70%, and 19 to 51% homologies, respectively, with other previously known grapevine vitiviruses. Field surveys and biological studies appear to show the involvement of this novel virus in graft incompatibility reactions.

#### MODULE 9: APPENDIX: supporting material

additional material in support of this proposal

#### **References:**

Abou Ghanem-Sabanadzovic N, Tzanetakis IE, Sabanadzovic S. (2013). Rubus canadensis virus 1, a novel betaflexivirus identified in blackberry. Arch. Virol. 158(2):445-449
 Al Rwahnih M, Sudarshana MR, Uyemoto JK, Rowhani A. (2012). Complete genome

sequence of a novel vitivirus isolated from grapevine. J. Virol. 86(17):9545-9545(2012).

Wylie SJ, Li H, Dixon KW, Richards H, Jones MG (2013). Exotic and indigenous viruses infect wild populations and captive collections of temperate terrestrial orchids (Diuris species) in Australia. Virus Res. 171(1):22-32.

#### 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.

Fig 1 (next page). Phylogenetic tree of Betaflexiviridae based on ClustalW alignment of the complete replicase amino acid sequences. Proposed new viruses from this proposal are indicated with red font.

100 95		
78		
23	— Daphne virus S (NC 008020)	
	— American hop latent virus (NC 017859)	
53⁴	—— Potato virus H (NC 018175)	
	——Potato latent virus (NC 011525)	
	—— Cowpea mild mottle virus (NC 014730)	
92	—— Hippeastrum latent virus (NC 011540)	
89	Narcissus common latent virus (NC 008266)	
99	Potato virus M (NC 001361)	
100	—— Aconitum latent virus (NC 002795) —— Hop mosaic virus (NC 010538)	
99	—— Hop latent virus (NC 002552)	
	——Potato rough dwarf virus (NC 009759)	
100 55		Carlavirus
74	Blueberry scorch virus (NC 003499)	
28 99		
	—— Mirabilis jalapa mottle virus (NC 016080)	
100	—— Lily symptomless virus (NC 005138)	
42	—— Passiflora latent virus (NC 008292)	
43	—— Kalanchoe latent virus (NC 013006)	
34	Butterbur mosaic virus (NC 013527)	
100	——— Garlic common latent virus (NC 016440)	
100	Coleus vein necrosis virus (NC 009764)	
65	— Helleborus net necrosis virus (NC 012038)	
/3	— Poplar mosaic virus (NC 005343)	
95 00		
	—— Garlic latent virus (NC 003557) —— Sweet potato virus C-6 (NC 018448)	
	—— Narcissus symptomless virus (NC 008552)	
100	——Sweet potato chlorotic fleck virus (NC 006550)	
50		
	— Rubus canadensis virus 1 (JX277553)	
	— Rubus canadensis virus 1 (JX277553) — Asian prunus virus 1 (FJ824737.1)	
60 94 <b></b>		Foveavirus
	— Asian prunus virus 1 (FJ824737.1)	Foveavirus
48	— Asian prunus virus 1 (FJ824737.1) — Rupestris stem pitting associated virus-1 (NC 001948) — Peach chlorotic mottle virus (NC 009892) — Apple stem pitting virus (NC 003462)	Foveavirus
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99 100 100 100 100 100 100 100 100 100 1	Asian prunus virus 1 (FJ824737.1)     Rupestris stem pitting associated virus-1 (NC 001948)     Peach chlorotic mottle virus (NC 009892)     Apple stem pitting virus (NC 003462)     Apricot latent virus (NC 014821)     Sugarcane striate mosaic-associated virus (NC 003870)     African oil palm ringspot virus (NC 012519)	<i>Foveavirus</i> Unassigned
99 100 100 100 100 100 100 100 100 100 1	Asian prunus virus 1 (FJ824737.1)     Rupestris stem pitting associated virus-1 (NC 001948)     Peach chlorotic mottle virus (NC 009892)     Apple stem pitting virus (NC 003462)     Apricot latent virus (NC 014821)     Sugarcane striate mosaic-associated virus (NC 003870)     African oil palm ringspot virus (NC 012519)     Cherry green ring mottle virus (NC 001946)	
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	<ul> <li>Asian prunus virus 1 (FJ824737.1)</li> <li>Rupestris stem pitting associated virus-1 (NC 001948)</li> <li>Peach chlorotic mottle virus (NC 009892)</li> <li>Apple stem pitting virus (NC 003462)</li> <li>Apricot latent virus (NC 014821)</li> <li>Sugarcane striate mosaic-associated virus (NC 003870)</li> <li>African oil palm ringspot virus (NC 012519)</li> <li>Cherry green ring mottle virus (NC 001946)</li> <li>Cherry necrotic rusty mottle virus (NC 002729)</li> <li>Peach mosaic virus (NC 01552)</li> <li>Cherry mottle leaf virus (NC 001409)</li> <li>Apricot pseudo-chlorotic leaf spot virus (NC 005946)</li> <li>Apple chlorotic leaf spot virus (NC 015782)</li> <li>Grapevine Pinot gris virus (NC 015395)</li> <li>Diuris virus A (NC 015395)</li> <li>Diuris virus A (NC 003689)</li> <li>Apple stem grooving virus (NC 001749)</li> <li>Citrus leaf blotch virus (NC 0011062)</li> </ul>	Unassigned Trichovirus Unassigned Capillovirus
	<ul> <li>Asian prunus virus 1 (FJ824737.1)</li> <li>Rupestris stem pitting associated virus-1 (NC 001948)</li> <li>Peach chlorotic mottle virus (NC 009892)</li> <li>Apple stem pitting virus (NC 003462)</li> <li>Apricot latent virus (NC 014821)</li> <li>Sugarcane striate mosaic-associated virus (NC 003870)</li> <li>African oil palm ringspot virus (NC 012519)</li> <li>Cherry green ring mottle virus (NC 001946)</li> <li>Cherry necrotic rusty mottle virus (NC 002468)</li> <li>Banana mild mosaic virus (NC 002729)</li> <li>Peach mosaic virus (NC 011552)</li> <li>Cherry mottle leaf virus (NC 001409)</li> <li>Apricot leaf spot virus (NC 001409)</li> <li>Grapevine Pinot gris virus (NC 015782)</li> <li>Grapevine Pinot gris virus (NC 015395)</li> <li>Diuris virus A (NC 015395)</li> <li>Diuris virus A (NC 003689)</li> <li>Aprle stem grooving virus (NC 001749)</li> <li>Citrus leaf blotch virus (NC 0011062)</li> <li>Grapevine virus T (NC 011062)</li> </ul>	Unassigned Trichovirus Unassigned Capillovirus Citrivirus Tepovirus
	<ul> <li>Asian prunus virus 1 (FJ824737.1)</li> <li>Rupestris stem pitting associated virus-1 (NC 001948)</li> <li>Peach chlorotic mottle virus (NC 009892)</li> <li>Apple stem pitting virus (NC 003462)</li> <li>Apricot latent virus (NC 014821)</li> <li>Sugarcane striate mosaic-associated virus (NC 003870)</li> <li>African oil palm ringspot virus (NC 012519)</li> <li>Cherry green ring mottle virus (NC 001946)</li> <li>Cherry necrotic rusty mottle virus (NC 002729)</li> <li>Peach mosaic virus (NC 01552)</li> <li>Cherry mottle leaf virus (NC 002500)</li> <li>Apricot leaf spot virus (NC 001409)</li> <li>Grapevine Pinot gris virus (NC 015782)</li> <li>Grapevine Pinot gris virus (NC 015395)</li> <li>Diuris virus A (JX173276)</li> <li>Hardenbergia virus A (NC 003689)</li> <li>Aprie stem grooving virus (NC 001749)</li> <li>Citrus leaf blotch virus (NC 003877)</li> <li>Potato virus T (NC 011062)</li> <li>Grapevine virus T (NC 011062)</li> </ul>	Unassigned Trichovirus Unassigned Capillovirus Citrivirus
	<ul> <li>Asian prunus virus 1 (FJ824737.1)</li> <li>Rupestris stem pitting associated virus-1 (NC 001948)</li> <li>Peach chlorotic mottle virus (NC 009892)</li> <li>Apple stem pitting virus (NC 003462)</li> <li>Apricot latent virus (NC 014821)</li> <li>Sugarcane striate mosaic-associated virus (NC 003870)</li> <li>African oil palm ringspot virus (NC 012519)</li> <li>Cherry green ring mottle virus (NC 001946)</li> <li>Cherry necrotic rusty mottle virus (NC 002468)</li> <li>Banana mild mosaic virus (NC 002729)</li> <li>Peach mosaic virus (NC 011552)</li> <li>Cherry mottle leaf virus (NC 001409)</li> <li>Apricot leaf spot virus (NC 001409)</li> <li>Grapevine Pinot gris virus (NC 015782)</li> <li>Grapevine Pinot gris virus (NC 015395)</li> <li>Diuris virus A (NC 015395)</li> <li>Diuris virus A (NC 003689)</li> <li>Aprle stem grooving virus (NC 001749)</li> <li>Citrus leaf blotch virus (NC 0011062)</li> <li>Grapevine virus T (NC 011062)</li> </ul>	Unassigned Trichovirus Unassigned Capillovirus Citrivirus Tepovirus
	<ul> <li>Asian prunus virus 1 (FJ824737.1)</li> <li>Rupestris stem pitting associated virus-1 (NC 001948)</li> <li>Peach chlorotic mottle virus (NC 009892)</li> <li>Apple stem pitting virus (NC 003462)</li> <li>Apricot latent virus (NC 014821)</li> <li>Sugarcane striate mosaic-associated virus (NC 003870)</li> <li>African oil palm ringspot virus (NC 012519)</li> <li>Cherry green ring mottle virus (NC 001946)</li> <li>Cherry necrotic rusty mottle virus (NC 002468)</li> <li>Banana mild mosaic virus (NC 002729)</li> <li>Peach mosaic virus (NC 01552)</li> <li>Cherry mottle leaf virus (NC 002500)</li> <li>Apricot leaf spot virus (NC 015782)</li> <li>Grapevine Pinot gris virus (NC 015782)</li> <li>Grapevine berry inner necrosis virus (NC 015220)</li> <li>Diuris virus A (JX173276)</li> <li>Hardenbergia virus A (NC 015395)</li> <li>Diuris virus B (JX173277)</li> <li>Cherry virus A (NC 003689)</li> <li>Apple stem grooving virus (NC 001749)</li> <li>Citrus leaf blotch virus (NC 011106)</li> <li>Grapevine virus T (NC 011062)</li> <li>Grapevine virus K (NC 013604)</li> </ul>	Unassigned Trichovirus Unassigned Capillovirus Citrivirus Tepovirus
	<ul> <li>Asian prunus virus 1 (FJ824737.1)</li> <li>Rupestris stem pitting associated virus-1 (NC 001948)</li> <li>Peach chlorotic mottle virus (NC 003892)</li> <li>Apple stem pitting virus (NC 003462)</li> <li>Appicot latent virus (NC 014821)</li> <li>Sugarcane striate mosaic-associated virus (NC 003870)</li> <li>African oil palm ringspot virus (NC 012519)</li> <li>Cherry green ring mottle virus (NC 001946)</li> <li>Cherry necrotic rusty mottle virus (NC 002729)</li> <li>Peach mosaic virus (NC 011552)</li> <li>Cherry mottle leaf virus (NC 001409)</li> <li>Apricot leaf spot virus (NC 001409)</li> <li>Grapevine Pinot gris virus (NC 015782)</li> <li>Grapevine Pinot gris virus (NC 015395)</li> <li>Diuris virus A (NC 015395)</li> <li>Diuris virus B (JX173276)</li> <li>Hardenbergia virus A (NC 003689)</li> <li>Apple stem grooving virus (NC 001749)</li> <li>Citrus leaf blotch virus (NC 001702)</li> <li>Grapevine virus T (NC 011062)</li> <li>Grapevine virus T (NC 011062)</li> <li>Grapevine virus B (NC 003604)</li> <li>Grapevine virus B (NC 003602)</li> <li>Actinidia virus B (NC 016404)</li> </ul>	Unassigned Trichovirus Unassigned Capillovirus Citrivirus Tepovirus