



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:	<i>2010.001a-kkkV</i>	(to be completed by ICTV officers)			
Short title: Rationalization and extension of the family Papillomaviridae (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 checked="" type="checkbox"/>	3 <input checked="" type="checkbox"/>	4 <input type="checkbox"/>	5 <input type="checkbox"/>
	6 <input type="checkbox"/>	7 <input checked="" type="checkbox"/>	8 <input checked="" type="checkbox"/>	9 <input checked="" type="checkbox"/>	

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

Hans-Ulrich Bernard <hbernard@uci.edu> and the Papillomaviridae Study Group

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)

Papillomaviridae

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

Date first submitted to ICTV:

Date of this revision (if different to above):

2 November 2010

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.

Code	2010.001aV	(assigned by ICTV officers)
To create 1 new species within:		
Genus:	<i>Betapapillomavirus</i>	Fill in all that apply. <ul style="list-style-type: none"> • If the higher taxon has yet to be created (in a later module, below) write “(new)” after its proposed name. • If no genus is specified, enter “unassigned” in the genus box.
Subfamily:	<i>Unassigned</i>	
Family:	<i>Papillomaviridae</i>	
Order:	<i>Unassigned</i>	
And name the new species:		
<i>Betapapillomavirus 6</i>		

<p>Reasons to justify the creation and assignment of the new species:</p> <ul style="list-style-type: none"> • Explain how the proposed species differ(s) from all existing species. <ul style="list-style-type: none"> ○ 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. • Provide accession numbers for genomic sequences • Further material in support of this proposal may be presented in the Appendix, Module 9
<p>Macaca fascicularis papillomavirus 2 (GU014531). See Module 9.</p>

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.

Code	2010.001bV	(assigned by ICTV officers)
To create 5 new species within:		
Genus:	<i>Gammapapillomavirus</i>	Fill in all that apply. • If the higher taxon has yet to be created (in a later module, below) write “ (new) ” after its proposed name. • If no genus is specified, enter “ unassigned ” in the genus box.
Subfamily:	<i>Unassigned</i>	
Family:	<i>Papillomaviridae</i>	
Order:	<i>Unassigned</i>	
And name the new species:		
<i>Gammapapillomavirus 6</i> <i>Gammapapillomavirus 7</i> <i>Gammapapillomavirus 8</i> <i>Gammapapillomavirus 9</i> <i>Gammapapillomavirus 10</i>		

<p>Reasons to justify the creation and assignment of the new species:</p> <ul style="list-style-type: none"> • Explain how the proposed species differ(s) from all existing species. <ul style="list-style-type: none"> ○ 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. • Provide accession numbers for genomic sequences • Further material in support of this proposal may be presented in the Appendix, Module 9
Human papillomavirus 101 (DQ080081), human papillomavirus 109 (EU541441), human papillomavirus 112 (EU541442), human papillomavirus 116 (FJ804072), human papillomavirus 121 (GQ845443), respectively. See Module 9.

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.

Code	<i>2010.001cV</i>	(assigned by ICTV officers)
To create 1 new species within:		
Genus:	<i>Deltapapillomavirus</i>	Fill in all that apply. • If the higher taxon has yet to be created (in a later module, below) write “ (new) ” after its proposed name. • If no genus is specified, enter “ unassigned ” in the genus box.
Subfamily:	<i>Unassigned</i>	
Family:	<i>Papillomaviridae</i>	
Order:	<i>Unassigned</i>	
And name the new species:		
<i>Deltapapillomavirus 5</i>		

<p>Reasons to justify the creation and assignment of the new species:</p> <ul style="list-style-type: none"> • Explain how the proposed species differ(s) from all existing species. <ul style="list-style-type: none"> ○ 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. • Provide accession numbers for genomic sequences • Further material in support of this proposal may be presented in the Appendix, Module 9
<p>Capreolus capreolus papillomavirus 1 (EF680235). See Module 9.</p>

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.

Code	2010.001dV	(assigned by ICTV officers)
To create 2 new species within:		
Genus:	<i>Lambdapapillomavirus</i>	Fill in all that apply. • If the higher taxon has yet to be created (in a later module, below) write “ (new) ” after its proposed name. • If no genus is specified, enter “ unassigned ” in the genus box.
Subfamily:	<i>Unassigned</i>	
Family:	<i>Papillomaviridae</i>	
Order:	<i>Unassigned</i>	
And name the new species:		
<i>Lambdapapillomavirus 3</i>		
<i>Lambdapapillomavirus 4</i>		

<p>Reasons to justify the creation and assignment of the new species:</p> <ul style="list-style-type: none"> • Explain how the proposed species differ(s) from all existing species. <ul style="list-style-type: none"> ○ 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. • Provide accession numbers for genomic sequences • Further material in support of this proposal may be presented in the Appendix, Module 9
<p>Canis familiaris papillomavirus 6 (FJ492743), Procyon lotor papillomavirus 1 (AY763115), respectively. See Module 9.</p>

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.

Code	<i>2010.001eV</i>	(assigned by ICTV officers)
To create 1 new species within:		
Genus:	<i>Pipapillomavirus</i>	Fill in all that apply. • If the higher taxon has yet to be created (in a later module, below) write “ (new) ” after its proposed name. • If no genus is specified, enter “ unassigned ” in the genus box.
Subfamily:	<i>Unassigned</i>	
Family:	<i>Papillomaviridae</i>	
Order:	<i>Unassigned</i>	
And name the new species:		
<i>Pipapillomavirus 2</i>		

<p>Reasons to justify the creation and assignment of the new species:</p> <ul style="list-style-type: none"> • Explain how the proposed species differ(s) from all existing species. <ul style="list-style-type: none"> ○ 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. • Provide accession numbers for genomic sequences • Further material in support of this proposal may be presented in the Appendix, Module 9
Micromys minutus papillomavirus 1 (DQ269468). See Module 9.

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.

Code	<i>2010.001fV</i>	(assigned by ICTV officers)
To create 1 new species within:		
Genus:	<i>Rhopapillomavirus (new)</i>	Fill in all that apply. • If the higher taxon has yet to be created (in a later module, below) write “ (new) ” after its proposed name. • If no genus is specified, enter “ unassigned ” in the genus box.
Subfamily:	<i>Unassigned</i>	
Family:	<i>Papillomaviridae</i>	
Order:	<i>Unassigned</i>	
And name the new species:		
<i>Rhopapillomavirus 1</i>		

<p>Reasons to justify the creation and assignment of the new species:</p> <ul style="list-style-type: none"> • Explain how the proposed species differ(s) from all existing species. <ul style="list-style-type: none"> ○ 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. • Provide accession numbers for genomic sequences • Further material in support of this proposal may be presented in the Appendix, Module 9
<p>Trichechus manatus papillomavirus 1 (AY609301). See Module 9.</p>

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.

Code	<i>2010.001gV</i>	(assigned by ICTV officers)
To create 1 new species within:		
Genus:	<i>Sigmatapillomavirus (new)</i>	Fill in all that apply. • If the higher taxon has yet to be created (in a later module, below) write “ (new) ” after its proposed name. • If no genus is specified, enter “ unassigned ” in the genus box.
Subfamily:	<i>Unassigned</i>	
Family:	<i>Papillomaviridae</i>	
Order:	<i>Unassigned</i>	
And name the new species:		
<i>Sigmatapillomavirus 1</i>		

<p>Reasons to justify the creation and assignment of the new species:</p> <ul style="list-style-type: none"> • Explain how the proposed species differ(s) from all existing species. <ul style="list-style-type: none"> ○ 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. • Provide accession numbers for genomic sequences • Further material in support of this proposal may be presented in the Appendix, Module 9
Erethizon dorsatum papillomavirus 1 (AY684126). See Module 9.

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.

Code	<i>2010.001hV</i>	(assigned by ICTV officers)
To create 1 new species within:		
Genus:	<i>Taupapillomavirus (new)</i>	Fill in all that apply. • If the higher taxon has yet to be created (in a later module, below) write “ (new) ” after its proposed name. • If no genus is specified, enter “ unassigned ” in the genus box.
Subfamily:	<i>Unassigned</i>	
Family:	<i>Papillomaviridae</i>	
Order:	<i>Unassigned</i>	
And name the new species:		
<i>Taupapillomavirus 1</i>		

<p>Reasons to justify the creation and assignment of the new species:</p> <ul style="list-style-type: none"> • Explain how the proposed species differ(s) from all existing species. <ul style="list-style-type: none"> ○ 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. • Provide accession numbers for genomic sequences • Further material in support of this proposal may be presented in the Appendix, Module 9
<p><i>Canis familiaris papillomavirus 2 (AY722648). See Module 9.</i></p>

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.

Code	<i>2010.001iV</i>	(assigned by ICTV officers)
To create 2 new species within:		
Genus:	<i>Upsilonpapillomavirus (new)</i>	Fill in all that apply. • If the higher taxon has yet to be created (in a later module, below) write “ (new) ” after its proposed name. • If no genus is specified, enter “ unassigned ” in the genus box.
Subfamily:	<i>Unassigned</i>	
Family:	<i>Papillomaviridae</i>	
Order:	<i>Unassigned</i>	
And name the new species:		
<i>Upsilonpapillomavirus 1</i>		
<i>Upsilonpapillomavirus 2</i>		

<p>Reasons to justify the creation and assignment of the new species:</p> <ul style="list-style-type: none"> • Explain how the proposed species differ(s) from all existing species. <ul style="list-style-type: none"> ○ 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. • Provide accession numbers for genomic sequences • Further material in support of this proposal may be presented in the Appendix, Module 9
<p>Tursiops truncatus papillomavirus 1 (EU240894), Tursiops truncatus papillomavirus 2 (AY956402), respectively. See Module 9.</p>

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.

Code	<i>2010.001jV</i>	(assigned by ICTV officers)
To create 1 new species within:		
Genus:	<i>Phipapillomavirus (new)</i>	Fill in all that apply. • If the higher taxon has yet to be created (in a later module, below) write “ (new) ” after its proposed name. • If no genus is specified, enter “ unassigned ” in the genus box.
Subfamily:	<i>Unassigned</i>	
Family:	<i>Papillomaviridae</i>	
Order:	<i>Unassigned</i>	
And name the new species:		
<i>Phipapillomavirus 1</i>		

<p>Reasons to justify the creation and assignment of the new species:</p> <ul style="list-style-type: none"> • Explain how the proposed species differ(s) from all existing species. <ul style="list-style-type: none"> ○ 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. • Provide accession numbers for genomic sequences • Further material in support of this proposal may be presented in the Appendix, Module 9
<p>Capra hircus papillomavirus 1 (DQ091200). See Module 9.</p>

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.

Code	2010.001kV	(assigned by ICTV officers)
To create 2 new species within:		
Genus:	<i>Chipapillomavirus (new)</i>	Fill in all that apply. • If the higher taxon has yet to be created (in a later module, below) write “ (new) ” after its proposed name. • If no genus is specified, enter “ unassigned ” in the genus box.
Subfamily:	<i>Unassigned</i>	
Family:	<i>Papillomaviridae</i>	
Order:	<i>Unassigned</i>	
And name the new species:		
<i>Chipapillomavirus 1</i>		
<i>Chipapillomavirus 2</i>		

<p>Reasons to justify the creation and assignment of the new species:</p> <ul style="list-style-type: none"> • Explain how the proposed species differ(s) from all existing species. <ul style="list-style-type: none"> ○ 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. • Provide accession numbers for genomic sequences • Further material in support of this proposal may be presented in the Appendix, Module 9
<p>Canis familiaris papillomavirus 3 (DQ295066), Canis familiaris papillomavirus 4 (EF584537). See Module 9.</p>

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.

Code	<i>2010.001IV</i>	(assigned by ICTV officers)
To create 1 new species within:		
Genus:	<i>Psipapillomavirus (new)</i>	Fill in all that apply. • If the higher taxon has yet to be created (in a later module, below) write “ (new) ” after its proposed name. • If no genus is specified, enter “ unassigned ” in the genus box.
Subfamily:	<i>Unassigned</i>	
Family:	<i>Papillomaviridae</i>	
Order:	<i>Unassigned</i>	
And name the new species:		
<i>Psipapillomavirus 1</i>		

<p>Reasons to justify the creation and assignment of the new species:</p> <ul style="list-style-type: none"> • Explain how the proposed species differ(s) from all existing species. <ul style="list-style-type: none"> ○ 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. • Provide accession numbers for genomic sequences • Further material in support of this proposal may be presented in the Appendix, Module 9
Rousettus aegyptiacus papillomavirus 1 (DQ366842). See Module 9.

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.

Code	<i>2010.001mV</i>	(assigned by ICTV officers)
To create 1 new species within:		
Genus:	<i>Omegapapillomavirus (new)</i>	Fill in all that apply. • If the higher taxon has yet to be created (in a later module, below) write “ (new) ” after its proposed name. • If no genus is specified, enter “ unassigned ” in the genus box.
Subfamily:	<i>Unassigned</i>	
Family:	<i>Papillomaviridae</i>	
Order:	<i>Unassigned</i>	
And name the new species:		
<i>Omegapapillomavirus 1</i>		

<p>Reasons to justify the creation and assignment of the new species:</p> <ul style="list-style-type: none"> • Explain how the proposed species differ(s) from all existing species. <ul style="list-style-type: none"> ○ 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. • Provide accession numbers for genomic sequences • Further material in support of this proposal may be presented in the Appendix, Module 9
Ursus maritimus papillomavirus 1 (EF536349). See Module 9.

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.

Code	2010.001nV	(assigned by ICTV officers)
To create 1 new species within:		
Genus:	<i>Dyodeltapapillomavirus (new)</i>	Fill in all that apply. • If the higher taxon has yet to be created (in a later module, below) write “ (new) ” after its proposed name. • If no genus is specified, enter “ unassigned ” in the genus box.
Subfamily:	<i>Unassigned</i>	
Family:	<i>Papillomaviridae</i>	
Order:	<i>Unassigned</i>	
And name the new species:		
<i>Dyodeltapapillomavirus 1</i>		

<p>Reasons to justify the creation and assignment of the new species:</p> <ul style="list-style-type: none"> • Explain how the proposed species differ(s) from all existing species. <ul style="list-style-type: none"> ○ 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. • Provide accession numbers for genomic sequences • Further material in support of this proposal may be presented in the Appendix, Module 9
Sus scrofa papillomavirus 1 (EF395818). See Module 9.

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.

Code	2010.001oV	(assigned by ICTV officers)
To create 1 new species within:		
Genus:	<i>Dyoepsilonpapillomavirus (new)</i>	Fill in all that apply. • If the higher taxon has yet to be created (in a later module, below) write “ (new) ” after its proposed name. • If no genus is specified, enter “ unassigned ” in the genus box.
Subfamily:	<i>Unassigned</i>	
Family:	<i>Papillomaviridae</i>	
Order:	<i>Unassigned</i>	
And name the new species:		
<i>Dyoepsilonpapillomavirus 1</i>		

<p>Reasons to justify the creation and assignment of the new species:</p> <ul style="list-style-type: none"> • Explain how the proposed species differ(s) from all existing species. <ul style="list-style-type: none"> ○ 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. • Provide accession numbers for genomic sequences • Further material in support of this proposal may be presented in the Appendix, Module 9
<p>Francolinus leucoscepus papillomavirus 1 (EU188799). See Module 9.</p>

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.

Code	<i>2010.001pV</i>	(assigned by ICTV officers)
To create 1 new species within:		
Genus:	<i>Dyozetapapillomavirus (new)</i>	Fill in all that apply. • If the higher taxon has yet to be created (in a later module, below) write “ (new) ” after its proposed name. • If no genus is specified, enter “ unassigned ” in the genus box.
Subfamily:	<i>Unassigned</i>	
Family:	<i>Papillomaviridae</i>	
Order:	<i>Unassigned</i>	
And name the new species:		
<i>Dyozetapapillomavirus 1</i>		

<p>Reasons to justify the creation and assignment of the new species:</p> <ul style="list-style-type: none"> • Explain how the proposed species differ(s) from all existing species. <ul style="list-style-type: none"> ○ 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. • Provide accession numbers for genomic sequences • Further material in support of this proposal may be presented in the Appendix, Module 9
Caretta caretta papillomavirus 1 (EU493092). See Module 9.

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.

Code	2010.001qV	(assigned by ICTV officers)
To create 1 new species within:		
Genus:	<i>Dyoetapapillomavirus (new)</i>	Fill in all that apply. • If the higher taxon has yet to be created (in a later module, below) write “ (new) ” after its proposed name. • If no genus is specified, enter “ unassigned ” in the genus box.
Subfamily:	<i>Unassigned</i>	
Family:	<i>Papillomaviridae</i>	
Order:	<i>Unassigned</i>	
And name the new species:		
<i>Dyoetapapillomavirus 1</i>		

<p>Reasons to justify the creation and assignment of the new species:</p> <ul style="list-style-type: none"> • Explain how the proposed species differ(s) from all existing species. <ul style="list-style-type: none"> ○ 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. • Provide accession numbers for genomic sequences • Further material in support of this proposal may be presented in the Appendix, Module 9
Erinaceus europaeus papillomavirus 1 (FJ379293). See Module 9.

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.

Code	2010.001rV	(assigned by ICTV officers)
To create 1 new species within:		
Genus:	<i>Dyothetapapillomavirus (new)</i>	Fill in all that apply. • If the higher taxon has yet to be created (in a later module, below) write “ (new) ” after its proposed name. • If no genus is specified, enter “ unassigned ” in the genus box.
Subfamily:	<i>Unassigned</i>	
Family:	<i>Papillomaviridae</i>	
Order:	<i>Unassigned</i>	
And name the new species:		
<i>Dyothetapapillomavirus 1</i>		

<p>Reasons to justify the creation and assignment of the new species:</p> <ul style="list-style-type: none"> • Explain how the proposed species differ(s) from all existing species. <ul style="list-style-type: none"> ○ 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. • Provide accession numbers for genomic sequences • Further material in support of this proposal may be presented in the Appendix, Module 9
Felis domesticus papillomavirus 2 (EU796884). See Module 9.

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.

Code	2010.001sV	(assigned by ICTV officers)
To create 1 new species within:		
Genus:	<i>Dyoiotapapillomavirus (new)</i>	Fill in all that apply. • If the higher taxon has yet to be created (in a later module, below) write “ (new) ” after its proposed name. • If no genus is specified, enter “ unassigned ” in the genus box.
Subfamily:	<i>Unassigned</i>	
Family:	<i>Papillomaviridae</i>	
Order:	<i>Unassigned</i>	
And name the new species:		
<i>Dyoiotapapillomavirus 1</i>		

<p>Reasons to justify the creation and assignment of the new species:</p> <ul style="list-style-type: none"> • Explain how the proposed species differ(s) from all existing species. <ul style="list-style-type: none"> ○ 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. • Provide accession numbers for genomic sequences • Further material in support of this proposal may be presented in the Appendix, Module 9
Equus caballus papillomavirus 2 (EU503122). See Module 9.

MODULE 3: **NEW GENUS**

creating a new genus

Ideally, a genus should be placed within a higher taxon.

Code	2010.001tV	(assigned by ICTV officers)
To create a new genus within:		
Subfamily:	<i>Unassigned</i>	Fill in all that apply. • If the higher taxon has yet to be created (in a later module, below) write “ (new) ” after its proposed name. • If no family is specified, enter “ unassigned ” in the family box
Family:	<i>Papillomaviridae</i>	
Order:	<i>Unassigned</i>	

naming a new genus

Code	2010.001uV	(assigned by ICTV officers)
To name the new genus: <i>Rhopapillomavirus</i>		

Assigning the type species and other species to a new genus

Code	2010.001vV	(assigned by ICTV officers)
To designate the following as the type species of the new genus		
<i>Rhopapillomavirus 1</i>		Every genus must have a type species. This should be a well characterized species although not necessarily the first to be discovered
The new genus will also contain any other new species created and assigned to it (Module 2) and any that are being moved from elsewhere (Module 7b). Please enter here the TOTAL number of species (including the type species) that the genus will contain:		
<i>1</i>		

Reasons to justify the creation of a new genus:

Additional material in support of this proposal may be presented in the Appendix, Module 9

See Module 9

Origin of the new genus name:

Progression of Greek alphabetic prefix
--

Reasons to justify the choice of type species:

Single species in genus

Species demarcation criteria in the new genus:

If there will be more than one species in the new genus, list the criteria being used for species demarcation and explain how the proposed members meet these criteria.

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MODULE 3: **NEW GENUS**

creating a new genus

Ideally, a genus should be placed within a higher taxon.

Code	2010.001wV	(assigned by ICTV officers)
To create a new genus within:		
Subfamily:	<i>Unassigned</i>	Fill in all that apply. • If the higher taxon has yet to be created (in a later module, below) write “ (new) ” after its proposed name. • If no family is specified, enter “ unassigned ” in the family box
Family:	<i>Papillomaviridae</i>	
Order:	<i>Unassigned</i>	

naming a new genus

Code	2010.001xV	(assigned by ICTV officers)
To name the new genus: <i>Sigmapapillomavirus</i>		

Assigning the type species and other species to a new genus

Code	2010.001yV	(assigned by ICTV officers)
To designate the following as the type species of the new genus		
<i>Sigmapapillomavirus 1</i>		Every genus must have a type species. This should be a well characterized species although not necessarily the first to be discovered
The new genus will also contain any other new species created and assigned to it (Module 2) and any that are being moved from elsewhere (Module 7b). Please enter here the TOTAL number of species (including the type species) that the genus will contain:		
<i>1</i>		

Reasons to justify the creation of a new genus:

Additional material in support of this proposal may be presented in the Appendix, Module 9

See Module 9

Origin of the new genus name:

Progression of Greek alphabetic prefix
--

Reasons to justify the choice of type species:

Single species in genus

Species demarcation criteria in the new genus:

If there will be more than one species in the new genus, list the criteria being used for species demarcation and explain how the proposed members meet these criteria.

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MODULE 3: **NEW GENUS**

creating a new genus

Ideally, a genus should be placed within a higher taxon.

Code	2010.001zV	(assigned by ICTV officers)
To create a new genus within:		
Subfamily:	<i>Unassigned</i>	Fill in all that apply. <ul style="list-style-type: none"> • If the higher taxon has yet to be created (in a later module, below) write “(new)” after its proposed name. • If no family is specified, enter “unassigned” in the family box
Family:	<i>Papillomaviridae</i>	
Order:	<i>Unassigned</i>	

naming a new genus

Code	2010.001aaV	(assigned by ICTV officers)
To name the new genus: <i>Taupapillomavirus</i>		

Assigning the type species and other species to a new genus

Code	2010.001bbV	(assigned by ICTV officers)
To designate the following as the type species of the new genus		
<i>Taupapillomavirus 1</i>		Every genus must have a type species. This should be a well characterized species although not necessarily the first to be discovered
The new genus will also contain any other new species created and assigned to it (Module 2) and any that are being moved from elsewhere (Module 7b). Please enter here the TOTAL number of species (including the type species) that the genus will contain:		
<i>1</i>		

Reasons to justify the creation of a new genus:

Additional material in support of this proposal may be presented in the Appendix, Module 9

See Module 9

Origin of the new genus name:

Progression of Greek alphabetic prefix
--

Reasons to justify the choice of type species:

Single species in genus

Species demarcation criteria in the new genus:

If there will be more than one species in the new genus, list the criteria being used for species demarcation and explain how the proposed members meet these criteria.

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MODULE 3: **NEW GENUS**

creating a new genus

Ideally, a genus should be placed within a higher taxon.

Code	2010.001ccV	(assigned by ICTV officers)
To create a new genus within:		
Subfamily:	<i>Unassigned</i>	Fill in all that apply. • If the higher taxon has yet to be created (in a later module, below) write “ (new) ” after its proposed name. • If no family is specified, enter “ unassigned ” in the family box
Family:	<i>Papillomaviridae</i>	
Order:	<i>Unassigned</i>	

naming a new genus

Code	2010.001ddV	(assigned by ICTV officers)
To name the new genus: <i>Upsilonpapillomavirus</i>		

Assigning the type species and other species to a new genus

Code	2010.001eeV	(assigned by ICTV officers)
To designate the following as the type species of the new genus		
<i>Upsilonpapillomavirus 1</i>		Every genus must have a type species. This should be a well characterized species although not necessarily the first to be discovered
The new genus will also contain any other new species created and assigned to it (Module 2) and any that are being moved from elsewhere (Module 7b). Please enter here the TOTAL number of species (including the type species) that the genus will contain:		
2		

Reasons to justify the creation of a new genus:

Additional material in support of this proposal may be presented in the Appendix, Module 9

See Module 9

Origin of the new genus name:

Progression of Greek alphabetic prefix
--

Reasons to justify the choice of type species:

First recognized virus in genus

Species demarcation criteria in the new genus:

If there will be more than one species in the new genus, list the criteria being used for species demarcation and explain how the proposed members meet these criteria.

See Module 9

MODULE 3: **NEW GENUS**

creating a new genus

Ideally, a genus should be placed within a higher taxon.

Code	2010.001ffV	(assigned by ICTV officers)
To create a new genus within:		
Subfamily:	<i>Unassigned</i>	Fill in all that apply. • If the higher taxon has yet to be created (in a later module, below) write “ (new) ” after its proposed name. • If no family is specified, enter “ unassigned ” in the family box
Family:	<i>Papillomaviridae</i>	
Order:	<i>Unassigned</i>	

naming a new genus

Code	2010.001ggV	(assigned by ICTV officers)
To name the new genus: <i>Phipapillomavirus</i>		

Assigning the type species and other species to a new genus

Code	2010.001hhV	(assigned by ICTV officers)
To designate the following as the type species of the new genus		
<i>Phipapillomavirus 1</i>		Every genus must have a type species. This should be a well characterized species although not necessarily the first to be discovered
The new genus will also contain any other new species created and assigned to it (Module 2) and any that are being moved from elsewhere (Module 7b). Please enter here the TOTAL number of species (including the type species) that the genus will contain:		
<i>1</i>		

Reasons to justify the creation of a new genus:

Additional material in support of this proposal may be presented in the Appendix, Module 9

See Module 9

Origin of the new genus name:

Progression of Greek alphabetic prefix
--

Reasons to justify the choice of type species:

Single species in genus

Species demarcation criteria in the new genus:

If there will be more than one species in the new genus, list the criteria being used for species demarcation and explain how the proposed members meet these criteria.

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MODULE 3: **NEW GENUS**

creating a new genus

Ideally, a genus should be placed within a higher taxon.

Code	2010.001iiV	(assigned by ICTV officers)
To create a new genus within:		
Subfamily:	<i>Unassigned</i>	Fill in all that apply. • If the higher taxon has yet to be created (in a later module, below) write “ (new) ” after its proposed name. • If no family is specified, enter “ unassigned ” in the family box
Family:	<i>Papillomaviridae</i>	
Order:	<i>Unassigned</i>	

naming a new genus

Code	2010.001jjV	(assigned by ICTV officers)
To name the new genus: <i>Chipapillomavirus</i>		

Assigning the type species and other species to a new genus

Code	2010.001kkV	(assigned by ICTV officers)
To designate the following as the type species of the new genus		
<i>Chipapillomavirus 1</i>		Every genus must have a type species. This should be a well characterized species although not necessarily the first to be discovered
The new genus will also contain any other new species created and assigned to it (Module 2) and any that are being moved from elsewhere (Module 7b). Please enter here the TOTAL number of species (including the type species) that the genus will contain:		
2		

Reasons to justify the creation of a new genus:

Additional material in support of this proposal may be presented in the Appendix, Module 9

See Module 9

Origin of the new genus name:

Progression of Greek alphabetic prefix
--

Reasons to justify the choice of type species:

First recognized virus in genus

Species demarcation criteria in the new genus:

If there will be more than one species in the new genus, list the criteria being used for species demarcation and explain how the proposed members meet these criteria.

See Module 9

MODULE 3: **NEW GENUS**

creating a new genus

Ideally, a genus should be placed within a higher taxon.

Code	2010.001UV	(assigned by ICTV officers)
To create a new genus within:		
Subfamily:	<i>Unassigned</i>	Fill in all that apply. • If the higher taxon has yet to be created (in a later module, below) write “(new)” after its proposed name. • If no family is specified, enter “unassigned” in the family box
Family:	<i>Papillomaviridae</i>	
Order:	<i>Unassigned</i>	

naming a new genus

Code	2010.001mmV	(assigned by ICTV officers)
To name the new genus: <i>Psipapillomavirus</i>		

Assigning the type species and other species to a new genus

Code	2010.001nnV	(assigned by ICTV officers)
To designate the following as the type species of the new genus		
<i>Psipapillomavirus 1</i>		Every genus must have a type species. This should be a well characterized species although not necessarily the first to be discovered
The new genus will also contain any other new species created and assigned to it (Module 2) and any that are being moved from elsewhere (Module 7b). Please enter here the TOTAL number of species (including the type species) that the genus will contain:		
<i>1</i>		

Reasons to justify the creation of a new genus:

Additional material in support of this proposal may be presented in the Appendix, Module 9

See Module 9

Origin of the new genus name:

Progression of Greek alphabetic prefix
--

Reasons to justify the choice of type species:

Single species in genus

Species demarcation criteria in the new genus:

If there will be more than one species in the new genus, list the criteria being used for species demarcation and explain how the proposed members meet these criteria.

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MODULE 3: **NEW GENUS**

creating a new genus

Ideally, a genus should be placed within a higher taxon.

Code	2010.001ooV	(assigned by ICTV officers)
To create a new genus within:		
Subfamily:	<i>Unassigned</i>	Fill in all that apply. • If the higher taxon has yet to be created (in a later module, below) write “ (new) ” after its proposed name. • If no family is specified, enter “ unassigned ” in the family box
Family:	<i>Papillomaviridae</i>	
Order:	<i>Unassigned</i>	

naming a new genus

Code	2010.001ppV	(assigned by ICTV officers)
To name the new genus: <i>Omegapapillomavirus</i>		

Assigning the type species and other species to a new genus

Code	2010.001qqV	(assigned by ICTV officers)
To designate the following as the type species of the new genus		
<i>Omegapapillomavirus 1</i>		Every genus must have a type species. This should be a well characterized species although not necessarily the first to be discovered
The new genus will also contain any other new species created and assigned to it (Module 2) and any that are being moved from elsewhere (Module 7b). Please enter here the TOTAL number of species (including the type species) that the genus will contain:		
<i>1</i>		

Reasons to justify the creation of a new genus:

Additional material in support of this proposal may be presented in the Appendix, Module 9

See Module 9

Origin of the new genus name:

Progression of Greek alphabetic prefix
--

Reasons to justify the choice of type species:

Single species in genus

Species demarcation criteria in the new genus:

If there will be more than one species in the new genus, list the criteria being used for species demarcation and explain how the proposed members meet these criteria.

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MODULE 3: **NEW GENUS**

creating a new genus

Ideally, a genus should be placed within a higher taxon.

Code	2010.001rrV	(assigned by ICTV officers)
To create a new genus within:		
Subfamily:	<i>Unassigned</i>	Fill in all that apply. • If the higher taxon has yet to be created (in a later module, below) write “(new)” after its proposed name. • If no family is specified, enter “unassigned” in the family box
Family:	<i>Papillomaviridae</i>	
Order:	<i>Unassigned</i>	

naming a new genus

Code	2010.001ssV	(assigned by ICTV officers)
To name the new genus: <i>Dyodeltapapillomavirus</i>		

Assigning the type species and other species to a new genus

Code	2010.001ttV	(assigned by ICTV officers)
To designate the following as the type species of the new genus		
<i>Dyodeltapapillomavirus 1</i>		Every genus must have a type species. This should be a well characterized species although not necessarily the first to be discovered
The new genus will also contain any other new species created and assigned to it (Module 2) and any that are being moved from elsewhere (Module 7b). Please enter here the TOTAL number of species (including the type species) that the genus will contain:		
<i>1</i>		

Reasons to justify the creation of a new genus:

Additional material in support of this proposal may be presented in the Appendix, Module 9

See Module 9

Origin of the new genus name:

Progression of Greek alphabetic prefix, second time (dyo) round

Reasons to justify the choice of type species:

Single species in genus

Species demarcation criteria in the new genus:

If there will be more than one species in the new genus, list the criteria being used for species demarcation and explain how the proposed members meet these criteria.

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MODULE 3: **NEW GENUS**

creating a new genus

Ideally, a genus should be placed within a higher taxon.

Code	2010.001uuV	(assigned by ICTV officers)
To create a new genus within:		
Subfamily:	<i>Unassigned</i>	Fill in all that apply. • If the higher taxon has yet to be created (in a later module, below) write “ (new) ” after its proposed name. • If no family is specified, enter “ unassigned ” in the family box
Family:	<i>Papillomaviridae</i>	
Order:	<i>Unassigned</i>	

naming a new genus

Code	2010.001vvV	(assigned by ICTV officers)
To name the new genus: <i>Dyoepsilonpapillomavirus</i>		

Assigning the type species and other species to a new genus

Code	2010.001wwV	(assigned by ICTV officers)
To designate the following as the type species of the new genus		
<i>Dyoepsilonpapillomavirus 1</i>		Every genus must have a type species. This should be a well characterized species although not necessarily the first to be discovered
The new genus will also contain any other new species created and assigned to it (Module 2) and any that are being moved from elsewhere (Module 7b). Please enter here the TOTAL number of species (including the type species) that the genus will contain:		
<i>1</i>		

Reasons to justify the creation of a new genus:

Additional material in support of this proposal may be presented in the Appendix, Module 9

See Module 9

Origin of the new genus name:

Progression of Greek alphabetic prefix, second time (dyo) round

Reasons to justify the choice of type species:

Single species in genus

Species demarcation criteria in the new genus:

If there will be more than one species in the new genus, list the criteria being used for species demarcation and explain how the proposed members meet these criteria.

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MODULE 3: **NEW GENUS**

creating a new genus

Ideally, a genus should be placed within a higher taxon.

Code	2010.001xxV	(assigned by ICTV officers)
To create a new genus within:		
Subfamily:	<i>Unassigned</i>	Fill in all that apply. • If the higher taxon has yet to be created (in a later module, below) write “(new)” after its proposed name. • If no family is specified, enter “unassigned” in the family box
Family:	<i>Papillomaviridae</i>	
Order:	<i>Unassigned</i>	

naming a new genus

Code	2010.001yyV	(assigned by ICTV officers)
To name the new genus: <i>Dyozetapapillomavirus</i>		

Assigning the type species and other species to a new genus

Code	2010.001zzV	(assigned by ICTV officers)
To designate the following as the type species of the new genus		
<i>Dyozetapapillomavirus 1</i>		Every genus must have a type species. This should be a well characterized species although not necessarily the first to be discovered
The new genus will also contain any other new species created and assigned to it (Module 2) and any that are being moved from elsewhere (Module 7b). Please enter here the TOTAL number of species (including the type species) that the genus will contain:		
<i>1</i>		

Reasons to justify the creation of a new genus:

Additional material in support of this proposal may be presented in the Appendix, Module 9

See Module 9

Origin of the new genus name:

Progression of Greek alphabetic prefix, second time (dyo) round

Reasons to justify the choice of type species:

Single species in genus

Species demarcation criteria in the new genus:

If there will be more than one species in the new genus, list the criteria being used for species demarcation and explain how the proposed members meet these criteria.

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MODULE 3: **NEW GENUS**

creating a new genus

Ideally, a genus should be placed within a higher taxon.

Code	2010.001aaaV	(assigned by ICTV officers)
To create a new genus within:		
Subfamily:	<i>Unassigned</i>	Fill in all that apply. • If the higher taxon has yet to be created (in a later module, below) write “ (new) ” after its proposed name. • If no family is specified, enter “ unassigned ” in the family box
Family:	<i>Papillomaviridae</i>	
Order:	<i>Unassigned</i>	

naming a new genus

Code	2010.001bbbV	(assigned by ICTV officers)
To name the new genus: <i>Dyoetapapillomavirus</i>		

Assigning the type species and other species to a new genus

Code	2010.001cccV	(assigned by ICTV officers)
To designate the following as the type species of the new genus		
<i>Dyoetapapillomavirus 1</i>		Every genus must have a type species. This should be a well characterized species although not necessarily the first to be discovered
The new genus will also contain any other new species created and assigned to it (Module 2) and any that are being moved from elsewhere (Module 7b). Please enter here the TOTAL number of species (including the type species) that the genus will contain:		
<i>1</i>		

Reasons to justify the creation of a new genus:

Additional material in support of this proposal may be presented in the Appendix, Module 9

See Module 9

Origin of the new genus name:

Progression of Greek alphabetic prefix, second time (dyo) round

Reasons to justify the choice of type species:

Single species in genus

Species demarcation criteria in the new genus:

If there will be more than one species in the new genus, list the criteria being used for species demarcation and explain how the proposed members meet these criteria.

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MODULE 3: **NEW GENUS**

creating a new genus

Ideally, a genus should be placed within a higher taxon.

Code	2010.001dddV	(assigned by ICTV officers)
To create a new genus within:		
Subfamily:	<i>Unassigned</i>	Fill in all that apply. • If the higher taxon has yet to be created (in a later module, below) write “(new)” after its proposed name. • If no family is specified, enter “unassigned” in the family box
Family:	<i>Papillomaviridae</i>	
Order:	<i>Unassigned</i>	

naming a new genus

Code	2010.001eeeV	(assigned by ICTV officers)
To name the new genus: <i>Dyothetapapillomavirus</i>		

Assigning the type species and other species to a new genus

Code	2010.001fffV	(assigned by ICTV officers)
To designate the following as the type species of the new genus		
<i>Dyothetapapillomavirus 1</i>		Every genus must have a type species. This should be a well characterized species although not necessarily the first to be discovered
The new genus will also contain any other new species created and assigned to it (Module 2) and any that are being moved from elsewhere (Module 7b). Please enter here the TOTAL number of species (including the type species) that the genus will contain:		
<i>1</i>		

Reasons to justify the creation of a new genus:

Additional material in support of this proposal may be presented in the Appendix, Module 9

See Module 9

Origin of the new genus name:

Progression of Greek alphabetic prefix, second time (dyo) round

Reasons to justify the choice of type species:

Single species in genus

Species demarcation criteria in the new genus:

If there will be more than one species in the new genus, list the criteria being used for species demarcation and explain how the proposed members meet these criteria.

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MODULE 3: **NEW GENUS**

creating a new genus

Ideally, a genus should be placed within a higher taxon.

Code	<i>2010.001gggV</i>	(assigned by ICTV officers)
To create a new genus within:		
Subfamily:	<i>Unassigned</i>	Fill in all that apply. • If the higher taxon has yet to be created (in a later module, below) write “(new)” after its proposed name. • If no family is specified, enter “unassigned” in the family box
Family:	<i>Papillomaviridae</i>	
Order:	<i>Unassigned</i>	

naming a new genus

Code	<i>2010.001hhhV</i>	(assigned by ICTV officers)
To name the new genus: <i>Dyoiotapapillomavirus</i>		

Assigning the type species and other species to a new genus

Code	<i>2010.001iiiV</i>	(assigned by ICTV officers)
To designate the following as the type species of the new genus		
<i>Dyoiotapapillomavirus 1</i>		Every genus must have a type species. This should be a well characterized species although not necessarily the first to be discovered
The new genus will also contain any other new species created and assigned to it (Module 2) and any that are being moved from elsewhere (Module 7b). Please enter here the TOTAL number of species (including the type species) that the genus will contain:		
<i>1</i>		

Reasons to justify the creation of a new genus:

Additional material in support of this proposal may be presented in the Appendix, Module 9

See Module 9

Origin of the new genus name:

Progression of Greek alphabetic prefix, second time (dyo) round

Reasons to justify the choice of type species:

Single species in genus

Species demarcation criteria in the new genus:

If there will be more than one species in the new genus, list the criteria being used for species demarcation and explain how the proposed members meet these criteria.

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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	2010.001jjjV	(assigned by ICTV officers)
To remove the following taxon (or taxa) from their present position:		
<i>Human papillomavirus 71</i>		
The present taxonomic position of these taxon/taxa:		
Genus:	<i>Alphapapillomavirus</i>	Fill in all that apply.
Subfamily:	<i>Unassigned</i>	
Family:	<i>Papillomaviridae</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

Under the species demarcation criteria, human papillomaviruses 71 and cand90 belong to a single species. It is proposed that the existing species name, *Human papillomavirus cand90* (renamed *Human papillomavirus 90* as proposed below) be utilized for these two viruses.

Part (b) re-assign to a higher taxon

Code		(assigned by ICTV officers)
To re-assign the taxon (or taxa) listed in Part (a) as follows:		
Genus:		Fill in all that apply. <ul style="list-style-type: none"> • If the higher taxon has yet to be created write "(new)" after its proposed name and complete relevant module to create it. If no genus is specified, enter "unassigned" in the genus box.
Subfamily:		
Family:		
Order:		

Reasons to justify the re-assignment:

- If it is proposed to re-assign species to an existing genus, please 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.
- Provide accession numbers for genomic sequences
- Further material in support of this proposal may be presented in the Appendix, Module 9

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MODULE 8: **NON-STANDARD**

Template for any proposal not covered by modules 2-7. This includes proposals to change the name of existing taxa (but note that stability of nomenclature is encouraged wherever possible).

non-standard proposal

Code	2010.001kkkV	(assigned by ICTV officers)
Title of proposal: <i>Renaming of species in the family Papillomaviridae</i>		

Text of proposal:

Papillomavirologists have been subjected to two parallel systems for species names. These are described in Table 3 of Bernard *et al.* (2010). One scheme is informal, and merely takes the genus name and extends it by a series of numbers (e.g. *Alphapapillomavirus 1* in the genus *Alphapapillomavirus*). The other scheme is formal, having been published in the ICTV 8th Report, and consists of raising the name of one virus in a species to be the species name (e.g. *Human papillomavirus 31* in the genus *Alphapapillomavirus*). The formal scheme suffers from serious flaws. First, it falsely implies some kind of priority for the subset of papillomaviruses whose names are raised to those of species. Second, it has not been adopted in the field, whereas the informal scheme is used widely. Third, it leads to confusion because species names and virus names are distinguishable only by the use of italic font in the former. This creates particular problems for databases such as GenBank, which does not utilize italic font; in this regard, see current proposal 2010.001aG.N.v1.Unique_names.pdf.

The proposal is to replace the current system by the informal system, which requires every existing papillomavirus species name to change. The following list shows the present versus the proposed species names in the family *Papillomaviridae*. Blanks under “Present species name” indicate species that have not yet been classified. New genera and type species are in bold.

Genus	Present species name	Proposed species name
<i>Alphapapillomavirus</i>	Human papillomavirus 32	Alphapapillomavirus 1
<i>Alphapapillomavirus</i>	<i>Human papillomavirus 10</i>	<i>Alphapapillomavirus 2</i>
<i>Alphapapillomavirus</i>	<i>Human papillomavirus 61</i>	<i>Alphapapillomavirus 3</i>
<i>Alphapapillomavirus</i>	<i>Human papillomavirus 2</i>	<i>Alphapapillomavirus 4</i>
<i>Alphapapillomavirus</i>	<i>Human papillomavirus 26</i>	<i>Alphapapillomavirus 5</i>
<i>Alphapapillomavirus</i>	<i>Human papillomavirus 53</i>	<i>Alphapapillomavirus 6</i>
<i>Alphapapillomavirus</i>	<i>Human papillomavirus 18</i>	<i>Alphapapillomavirus 7</i>
<i>Alphapapillomavirus</i>	<i>Human papillomavirus 7</i>	<i>Alphapapillomavirus 8</i>
<i>Alphapapillomavirus</i>	<i>Human papillomavirus 16</i>	<i>Alphapapillomavirus 9</i>
<i>Alphapapillomavirus</i>	<i>Human papillomavirus 6</i>	<i>Alphapapillomavirus 10</i>
<i>Alphapapillomavirus</i>	<i>Human papillomavirus 34</i>	<i>Alphapapillomavirus 11</i>
<i>Alphapapillomavirus</i>	<i>Rhesus monkey papillomavirus 1</i>	<i>Alphapapillomavirus 12</i>
<i>Alphapapillomavirus</i>	<i>Human papillomavirus 54</i>	<i>Alphapapillomavirus 13</i>
<i>Alphapapillomavirus</i>	<i>Human papillomavirus cand90</i>	<i>Alphapapillomavirus 14</i>
<i>Alphapapillomavirus</i>	<i>Human papillomavirus 71</i>	[Deleted]
<i>Betapapillomavirus</i>	Human papillomavirus 5	Betapapillomavirus 1
<i>Betapapillomavirus</i>	<i>Human papillomavirus 9</i>	<i>Betapapillomavirus 2</i>
<i>Betapapillomavirus</i>	<i>Human papillomavirus 49</i>	<i>Betapapillomavirus 3</i>
<i>Betapapillomavirus</i>	<i>Human papillomavirus cand92</i>	<i>Betapapillomavirus 4</i>
<i>Betapapillomavirus</i>	<i>Human papillomavirus cand96</i>	<i>Betapapillomavirus 5</i>
<i>Betapapillomavirus</i>		<i>Betapapillomavirus 6</i>

<i>Gammapapillomavirus</i>	Human papillomavirus 4	Gammapapillomavirus 1
<i>Gammapapillomavirus</i>	<i>Human papillomavirus 48</i>	<i>Gammapapillomavirus 2</i>
<i>Gammapapillomavirus</i>	<i>Human papillomavirus 50</i>	<i>Gammapapillomavirus 3</i>
<i>Gammapapillomavirus</i>	<i>Human papillomavirus 60</i>	<i>Gammapapillomavirus 4</i>
<i>Gammapapillomavirus</i>	<i>Human papillomavirus 88</i>	<i>Gammapapillomavirus 5</i>
<i>Gammapapillomavirus</i>		<i>Gammapapillomavirus 6</i>
<i>Gammapapillomavirus</i>		<i>Gammapapillomavirus 7</i>
<i>Gammapapillomavirus</i>		<i>Gammapapillomavirus 8</i>
<i>Gammapapillomavirus</i>		<i>Gammapapillomavirus 9</i>
<i>Gammapapillomavirus</i>		<i>Gammapapillomavirus 10</i>
<i>Deltapapillomavirus</i>	European elk papillomavirus	Deltapapillomavirus 1
<i>Deltapapillomavirus</i>	<i>Deer papillomavirus</i>	<i>Deltapapillomavirus 2</i>
<i>Deltapapillomavirus</i>	<i>Ovine papillomavirus 1</i>	<i>Deltapapillomavirus 3</i>
<i>Deltapapillomavirus</i>	<i>Bovine papillomavirus 1</i>	<i>Deltapapillomavirus 4</i>
<i>Deltapapillomavirus</i>		<i>Deltapapillomavirus 5</i>
<i>Epsilonpapillomavirus</i>	Bovine papillomavirus 5	Epsilonpapillomavirus 1
<i>Zetapapillomavirus</i>	Equine papillomavirus 1	Zetapapillomavirus 1
<i>Etapapillomavirus</i>	Fringilla coelebs papillomavirus	Etapapillomavirus 1
<i>Thetapapillomavirus</i>	Psittacus erithacus timneh papillomavirus	Thetapapillomavirus 1
<i>Iotapapillomavirus</i>	Mastomys natalensis papillomavirus	Iotapapillomavirus 1
<i>Kappapapillomavirus</i>	<i>Rabbit oral papillomavirus</i>	<i>Kappapapillomavirus 1</i>
<i>Kappapapillomavirus</i>	Cottontail rabbit papillomavirus	Kappapapillomavirus 2
<i>Lambdapapillomavirus</i>	<i>Feline papillomavirus</i>	<i>Lambdapapillomavirus 1</i>
<i>Lambdapapillomavirus</i>	Canine oral papillomavirus	Lambdapapillomavirus 2
<i>Lambdapapillomavirus</i>		<i>Lambdapapillomavirus 3</i>
<i>Lambdapapillomavirus</i>		<i>Lambdapapillomavirus 4</i>
<i>Mupapillomavirus</i>	Human papillomavirus 1	Mupapillomavirus 1
<i>Mupapillomavirus</i>	<i>Human papillomavirus 63</i>	<i>Mupapillomavirus 2</i>
<i>Nupapillomavirus</i>	Human papillomavirus 41	Nupapillomavirus 1
<i>Xipapillomavirus</i>	Bovine papillomavirus 3	Xipapillomavirus 1
<i>Omikronpapillomavirus</i>	Phocoena spinipinnis papillomavirus	Omikronpapillomavirus 1
<i>Pipapillomavirus</i>	Hamster oral papillomavirus	Pipapillomavirus 1
<i>Pipapillomavirus</i>		<i>Pipapillomavirus 2</i>
Rhopapillomavirus		Rhopapillomavirus 1
Sigmapapillomavirus		Sigmapapillomavirus 1
Taupapillomavirus		Taupapillomavirus 1
Upsilonpapillomavirus		Upsilonpapillomavirus 1
Upsilonpapillomavirus		<i>Upsilonpapillomavirus 2</i>
Phipapillomavirus		Phipapillomavirus 1
Chipapillomavirus		Chipapillomavirus 1
Chipapillomavirus		<i>Chipapillomavirus 2</i>
Psipapillomavirus		Psipapillomavirus 1
Omegapapillomavirus		Omegapapillomavirus 1
Dyodeltapapillomavirus		Dyodeltapapillomavirus 1
Dyoepsilonpapillomavirus		Dyoepsilonpapillomavirus 1
Dyozetapapillomavirus		Dyozetapapillomavirus 1
Dyoetapapillomavirus		Dyoetapapillomavirus 1
Dyothetapapillomavirus		Dyothetapapillomavirus 1
Dyoiotapapillomavirus		Dyoiotapapillomavirus 1

MODULE 9: **APPENDIX**: supporting material

additional material in support of this proposal

References:

Bernard, H.U., Burk, R.D., Chen, Z., van Doorslaer, K., Hausen, H. & de Villiers, E.M. (2010). Classification of papillomaviruses (PVs) based on 189 PV types and proposal of taxonomic amendments. <i>Virology</i> 401, 70-79.

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.

In order to understand these proposals, it is essential to refer to Bernard *et al.* (2010). In this publication, the Study Group proposed a significant expansion of the family *Papillomaviridae*. To achieve this, the names of genera were extended to the end of the Greek alphabet (*Alphapapillomavirus* through *Omegapapillomavirus*), followed by recommencement with a *Dyo*-prefix from *Dyodeltapapillomavirus* onwards to avoid confusion with the most populous genera, *Alphapapillomavirus* through *Gammapapillomavirus*.

Papillomavirus taxa are defined on the basis of phylogenetic distances among the L1 DNA sequences. A phylogenetic tree is shown in Bernard *et al.* (2010). The criteria for defining species and genera are general and not absolute, with sequence identity ranges overlapping somewhat. Thus, intergeneric identities range from about 43-62%, interspecies identities from about 55-71%, and intraspecies identities from about 67-88%. The proposals are in line with this criterion.
