

# Template for Taxonomic Proposal to the ICTV Executive Committee

## Creating Species in an existing genus

Code †  To designate the following as species in the genus:

belonging to the family<sup>°</sup> :

*Duck circovirus*  
Duck circovirus (DuCV)

† 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

*Circoviridae*

Genus

*Circovirus*

Type Species

*Porcine circovirus 1*

Species in the Genus

Tentative Species in the Genus

Unassigned Species in the family

### New Taxonomic Order

Order

Family

*Circoviridae*

Genus

*Circovirus*

Type Species

*Porcine circovirus 1*

Species in the Genus

*Duck circovirus*

Tentative Species in the Genus

Unassigned Species in the family

### ICTV-EC comments and response of the SG

### **Species demarcation criteria in the genus**

Since the *rep* genes are highly conserved, species demarcation can be best seen by phylogenetic comparison of the CP coding sequence. The suggested criteria demarcating species in the genus are (i) complete genome nt sequence less than 75%, and (ii) CP sequence identity less than 70%.

### **Argumentation to justify the designation of new species in the genus**

Classify *Duck circovirus* as an additional species of the genus *Circovirus*

Purpose: Sequence analysis has shown that the genome of DuCV resembles those of the members of genus *Circovirus* : Porcine circovirus -1 and -2 (PCV1, PCV2), Beak and feather disease virus (BFDV), Pigeon circovirus (PiCV)., Canary circovirus (CaCV) and Goose circovirus (GoCV). DuCV satisfies the species demarcation criteria of sharing less than 80% complete genome nucleotide sequence identity, and less than 75% capsid protein amino acid identity with circoviruses.

## List of created Species in the genus

### *Beak and feather disease virus*

Beak and feather disease virus [AF080560] (BFDV)

### *Canary circovirus*

Canary circovirus [AJ301633] (CaCV)

### *Duck circovirus*

Duck circovirus [need an accession number] (DuCV)

### *Goose circovirus*

Goose circovirus [AJ304456] (GoCV)

### *Pigeon circovirus*

Pigeon circovirus [AF252610] (PiCV)

### *Porcine circovirus - 1*

Porcine circovirus - 1 [Y09921] (PCV-1)

### *Porcine circovirus - 2*

Porcine circovirus - 2 [AF027217] (PCV-2)

### **TENTATIVE SPECIES IN THE GENUS**

**Finch circovirus** (FiCV)

**Gull circovirus** (GuCV)

## References

## Annexes: