

# Template for Taxonomic Proposal to the ICTV Executive Committee

## Creating Species in an existing genus

Code<sup>†</sup> **FT2003.059V.01** To designate the following viruses as species in the genus:

***Kobuvirus***

belonging to the family<sup>°</sup> : ***Picornaviridae***

***Bovine kobuvirus (BKV),***

<sup>†</sup> Assigned by ICTV officers

<sup>°</sup> leave blank if inappropriate or in the case of an unassigned genus

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### New Taxonomic Order

**Order**

**Family** *Picornaviridae*

**Genus** *Kobuvirus*

**Type Species** *Aichi virus* (AiV)

**List of Species in the genus** *Aichi virus* (AiV)

*Bovine kobuvirus* (BKV)

**List of Tentative Species in the Genus**

**List of Unassigned Species in the Family**

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

### Argumentation to justify the Species demarcation criteria in the genus and designation of new species in the genus

The sequence of a virus (strain U-1) related to Aichi virus, a member of the *Kobuvirus* genus has been recently published (accession AB084788). It has typical *Kobuvirus*-like molecular features, but is divergent from Aichi virus in amino acid sequence terms by an extent similar to that seen between species in other *Picornaviridae* genera. It is proposed to define species criteria for the kobuvirus genus and assign U-1 as a member of a new species within the genus. In view of the limited number of kobuvirus sequences available, the species criteria proposed are based on those used for several *Picornaviridae* genera. The definition proposed is

“Members of a *Kobuvirus* species:

Share greater than 70% amino acid identity in the P1  
Share greater than 70% amino acid identity in the 2C+3CD  
Have a common genome layout”

By these criteria U-1 does not belong to the single existing *Kobuvirus* species, *Aichi virus* and it is proposed to create a new species. As the new virus appears to be associated with cattle, the proposed species name is *Bovine kobuvirus* (BKV). The relationship between *Picornaviridae* species, including BKV, can be seen in Fig. 3 (2C+3CD) and Fig. 4 (P1).

### List of created Species in the genus

<i>Bovine kobuvirus</i>	
U1 virus	AB084788

### References

Yamashita T, Ito M, Kabashima Y, Tsuzuki H, Sakae K (2002) Isolation and characterization of a new species of kobuvirus associated with bovine (Unpublished)

### Annexes:

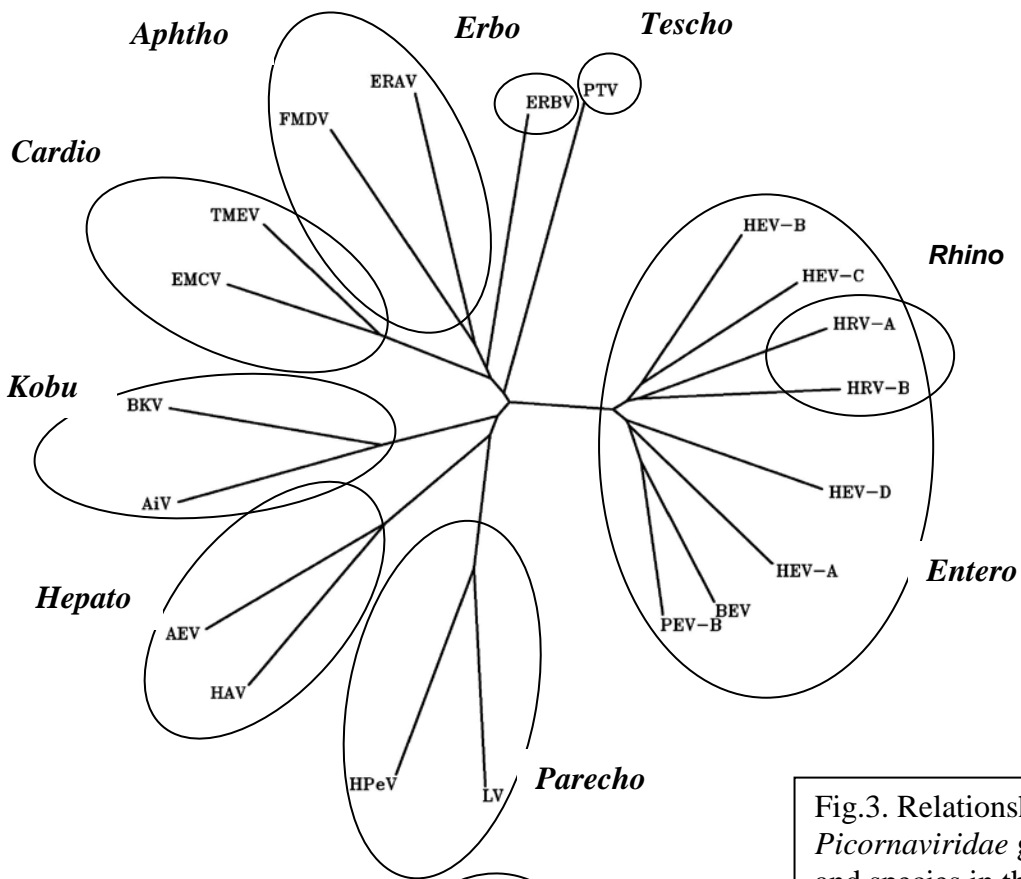


Fig.3. Relationship between *Picornaviridae* genera (circled) and species in the P1 region.

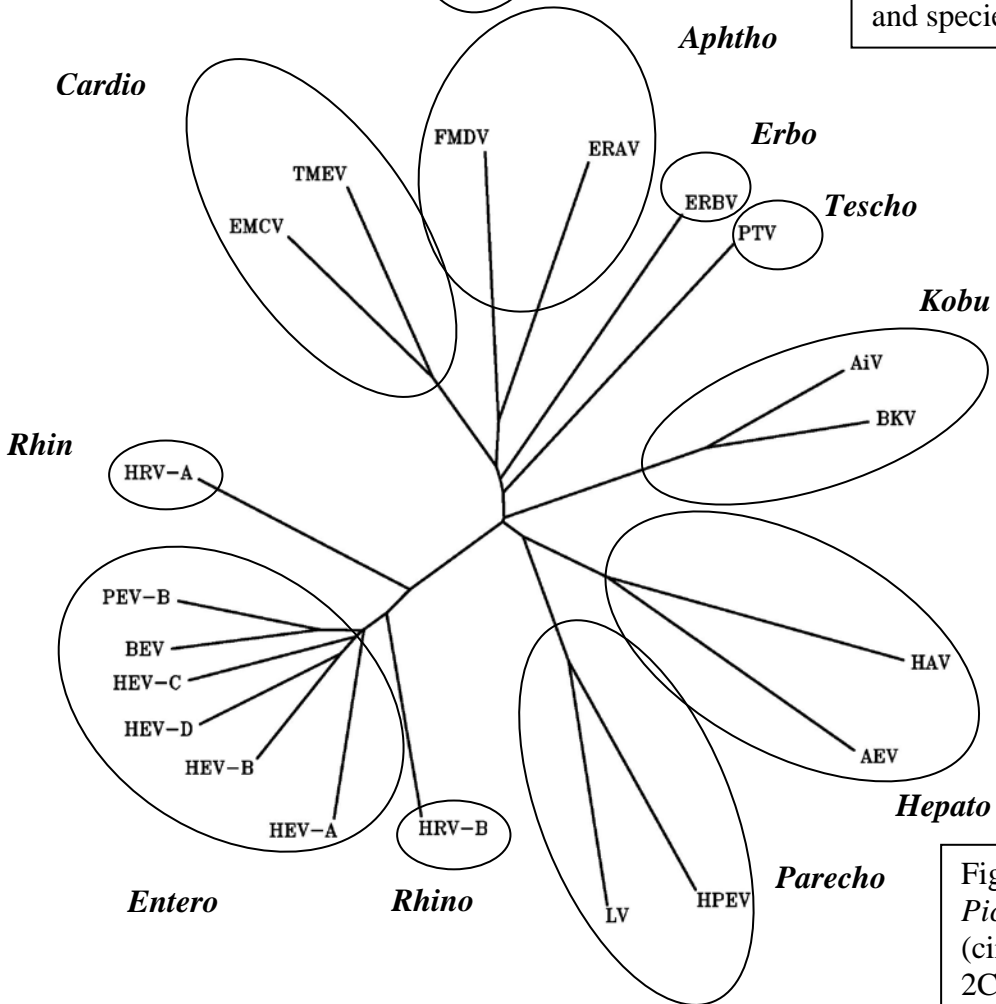


Fig.4. Relationship between *Picornaviridae* genera (circled) and species in the 2C plus 3CD regions.