Template for Taxonomic Proposal to the ICTV Executive Committee
Creating Species in an existing genus

Code FT2003.059V.01 To designate the following viruses as species in the genus:

Kobuvirus

belonging to the family Picornaviridae:

Bovine kobuvirus (BKV),

† 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

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New Taxonomic Order

<table>
<thead>
<tr>
<th>Order</th>
<th>Picornaviridae</th>
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<tbody>
<tr>
<td>Family</td>
<td>Kobuvirus</td>
</tr>
<tr>
<td>Genus</td>
<td></td>
</tr>
<tr>
<td>Type Species</td>
<td>Aichi virus</td>
</tr>
<tr>
<td>List of Species in the genus</td>
<td>Aichi virus (AiV)</td>
</tr>
<tr>
<td></td>
<td>Bovine kobuvirus (BKV)</td>
</tr>
</tbody>
</table>

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

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

<table>
<thead>
<tr>
<th>Species</th>
<th>Accession</th>
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<tbody>
<tr>
<td>Bovine kobuvirus</td>
<td>AB084788</td>
</tr>
</tbody>
</table>

References


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.