This form should be used for all taxonomic proposals. Please complete all those modules that are applicable (and then delete the unwanted sections).

Code(s) assigned: ***2008.038B*** (to be completed by ICTV officers)

Short title: create species named Pseudomonas phage F116 to be unassigned in the Podoviridae family
(e.g. 6 new species in the genus *Zetavirus*; re-classification of the family *Zetaviridae* etc.)

Modules attached (please check all that apply):	**1** ☐	**2** ☐	**3** ☐	**4** ☐	**5** ☒
	6 ☐	**7** ☐			

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

MODULE 5: **NEW SPECIES**

Code	***2008.038B***	(assigned by ICTV officers)

To create **new species assigned as follows:**

Genus:	**unassigned**
Subfamily:	
Family:	***Podoviridae***
Order:	***Caudovirales***

Fill in all that apply. Ideally, species should be placed within a genus, but it is acceptable to propose a species that is within a Subfamily or Family but not assigned to an existing genus (in which case put "unassigned" in the genus box)

Name(s) of proposed new species:

Pseudomonas phage F116

Argument to justify the creation of the new species:

If the species are to be assigned to an existing genus, list the criteria for species demarcation and explain how the proposed members meet these criteria.

F116 is a temperate, pilus-specific, generalized transducing phage belonging to the Podoviridae virus family. Its genome is linear, ds, TR, and CP DNA with a GC content of 63.2%. The 65 195-bp genome contains 70 putative ORFs, only 16 of which showed sequence similarity to Pseudomonas genomic or phage genes (NC_006552). While the current literature suggests that F116 is a non-integrating phage that maintains itself as a plasmid during the lysogenic life cycle, a putative int gene was identified. With the exception of a portal protein, none of the genes involved in capsid and tail morphogenesis could be identified through homology searches.

References:

** Byrne M, Kropinski AM. (2005) The genome of the Pseudomonas aeruginosa generalized transducing bacteriophage F116. Gene. 14;346:187-94.

Annexes:

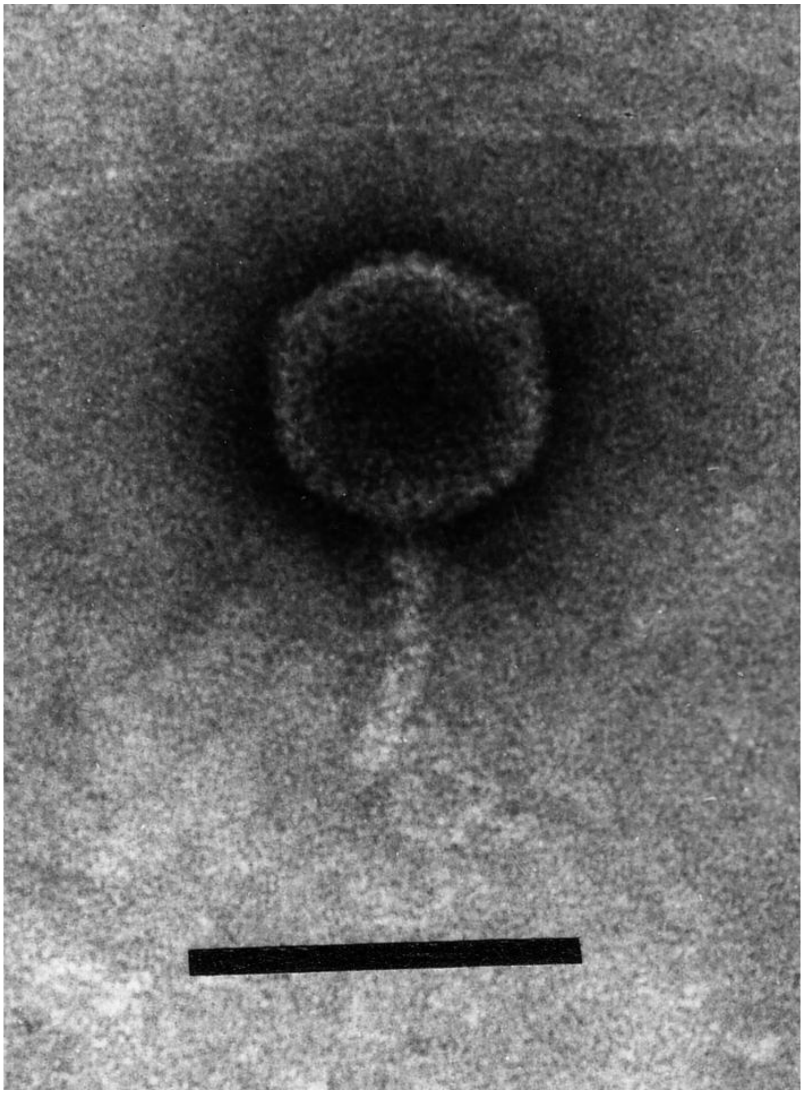

Figure 1: EM image for *Podoviridae* member F116 infecting Pseudomonas aeruginosa (uranyl acetate x 297,000)