This form should be used for all taxonomic proposals. Please complete all those modules that are applicable.

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.

Part 1: **TITLE, AUTHORS, etc**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Code assigned:** | ***2017.023B*** | | | | (to be completed by ICTV officers) |
| **Short title: To create one (1) new species in the genus *P22virus* in the family *Podoviridae*** | | | | | |
| **Modules attached**  (Modules 1, 4 and either 2 or 3 are required. | | **1**  **2  3  4** | | | |
| **Author(s):** | | | | | |
| Sian V Owen—University of Liverpool (UK)  Jay C D Hinton—University of Liverpool (UK)  Andrew M. Kropinski—University of Guelph (Canada)  Jens H. Kuhn - National Institute of Allergy and Infectious Diseases (USA)  Evelien M. Adriaenssens—University of Liverpool (UK) | | | | | |
| **Corresponding author with e-mail address:** | | | | | |
| Andrew M. Kropinski, [phage.canada@gmail.com](mailto:phage.canada@gmail.com) | | | | | |
| **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 (there are six virus subcommittees: animal DNA and retroviruses, animal ssRNA-, animal ssRNA+, fungal and protist, plant, bacterial and archaeal) | | | **ICTV Bacterial and Archaeal Viruses Subcommittee** | | |
| **ICTV Study Group comments (if any) and response of the proposer:** | | | | | |
|  | | | | | |
|  | | | | | |
| Date first submitted to ICTV: | | | | June 8, 2017 | |
| Date of this revision (if different to above): | | | |  | |

|  |
| --- |
| **ICTV-EC comments and response of the proposer:** |
|  |

**Part 2**: **PROPOSED TAXONOMY**

|  |
| --- |
| Present the proposed new taxonomy on accompanying spreadsheet |
| **Name of accompanying spreadsheet: 2017.023B.N.v1.P22virus\_sp** |

Please display the taxonomic changes you are proposing on the accompanying spreadsheet 2017\_TP\_Template\_Excel.xlsx. Submit both this and the accompanying spreadsheet to the appropriate ICTV Subcommittee Chair.

**Part 4:** **APPENDIX**: supporting material

| additional material in support of this proposal |
| --- |
|  |
| **References:** | | |
| 1. Owen, S.V., Wenner, N., Canals, R., Makumi, A., Hammarlöf, D.L., Gordon, M.A., Aertsen, A., Feasey, N.A., Hinton, J.C.D., 2017. Characterization of the Prophage Repertoire of African Salmonella Typhimurium ST313 Reveals High Levels of Spontaneous Induction of Novel Phage BTP1. Front. Microbiol. 8, 235. doi:10.3389/fmicb.2017.00235 | | |

**Introduction:**

We propose that Salmonella phage BTP1 represents a new species designated *Salmonella virus BTP1* within the *P22virus* genus, as previously described by Owen and colleagues [1]. This is consistent with the International Committee on Taxonomy of Viruses (ICTV) criterion that members of a proposed species differ from those of other species by more than 5% at the DNA level as confirmed with the BLASTN algorithm (Table 1). The annotated genome and sequencing reads for Salmonella phage BTP1 are deposited at the DDBJ/EMBL/GenBank database under the accession LT714109 and study accession PRJEB18919 [1]. The proposed species “*Salmonella virus BTP1*” has been assigned the taxon ID 1934252.

**Table 1. BLASTN homology of *Salmonella* phage BTP1 compared to *Salmonella* phage P22.**

|  |  |  |
| --- | --- | --- |
| BLASTN | | |
|  | **BTP1** | **P22** |
| **BTP1** | 100% | 50% |
| **P22** | 50% | 100% |