

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

|  |  |  |
| --- | --- | --- |
| **Code assigned:** | ***2023.006D*** |  |
| **Short title:** Binomial species names for members of the family *Redondoviridae* |
|  |

**Author(s) and email address(es)**

|  |  |
| --- | --- |
| Abbas A, Taylor LJ, Collman RG, Bushman FD | abbas.arwa@gmail.com; Louis.Taylor@som.umaryland.edu; collmanr@pennmedicine.upenn.edu; bushman@pennmedicine.upenn.edu |

**Author(s) institutional address(es) (optional)**

|  |
| --- |
| Nonaffiliated [AA]University of Maryland [LJT]University of Pennsylvania [RGC]University of Pennsylvania [FDB] |

**Corresponding author**

|  |
| --- |
| Frederic D. Bushman |

**List the ICTV Study Group(s) that have seen this proposal**

|  |
| --- |
| Animal DNA and retroviruses |

**ICTV Study Group comments and response of proposer**

|  |
| --- |
| Followed naming suggested by Arvind Varsani |

**ICTV Study Group votes on proposal**

|  |  |
| --- | --- |
| **Study Group** | **Number of members** |
| **Votes support** | **Votes against** | **No vote** |
|  |  |  |  |
|  |  |  |  |

**Authority to use the name of a living person**

|  |  |
| --- | --- |
| **Is any taxon name used here derived from that of a living person (Y/N)** | N |

|  |  |  |
| --- | --- | --- |
| **Taxon name** | **Person from whom the name is derived** | **Permission attached (Y/N)** |
|  |  |  |
|  |  |  |
|  |  |  |

**Submission dates**

|  |  |
| --- | --- |
| Date first submitted to SC Chair | 16 June 2023 |
| Date of this revision (if different to above) |  |

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

|  |
| --- |
|  |

**Part 2:** **NON-TAXONOMIC PROPOSAL**

**Text of proposal**

|  |
| --- |
|  |

**Part 3:** **TAXONOMIC PROPOSAL**

**Name of accompanying Excel module**

|  |
| --- |
| 2023.006D.N.v2.Redondoviride\_2ren.xlsx |

**Abstract**

|  |
| --- |
| Following conversations with Dr. Varsani, we propose species names to rename the current two species names in the family *Redondoviridae* [1-5] to conform with the binomial nomenclature: *Torbevirus viento* and *Torbevirus brisa*. |

**Text of proposal**

|  |  |
| --- | --- |
|

|  |
| --- |
| Species are separated by alignment and taxonomic placement of DNA sequences of genomes. We were advised to propose one genus and one family. |

 |

**Supporting evidence**

**References**

1. Abbas AA, Taylor LJ, Dothard MI, Leiby JS, Fitzgerald AS, Khatib LA, Collman RG, Bushman FD (2019) Redondoviridae, a Family of Small, Circular DNA Viruses of the Human Oro-Respiratory Tract Associated with Periodontitis and Critical Illness. Cell Host Microbe 26:297

2. Cui L, Wu B, Zhu X, Guo X, Ge Y, Zhao K, Qi X, Shi Z, Zhu F, Sun L, Zhou M (2017) Identification and genetic characterization of a novel circular single-stranded DNA virus in a human upper respiratory tract sample. Arch Virol 162:3305-3312

3. Keeler EL, Merenstein C, Reddy S, Taylor LJ, Cobian-Guemes AG, Zankharia U, Collman RG, Bushman FD (2023) Widespread, human-associated redondoviruses infect the commensal protozoan Entamoeba gingivalis. Cell Host Microbe 31:58-68 e55

4. Kinsella CM, Deijs M, Becker C, Broekhuizen P, van Gool T, Bart A, Schaefer AS, van der Hoek L (2022) Host prediction for disease-associated gastrointestinal cressdnaviruses. Virus Evol 8:veac087

5. Taylor LJ, Dothard MI, Rubel MA, Allen AA, Hwang Y, Roche AM, Graham-Wooten J, Fitzgerald AS, Khatib LA, Ranciaro A, Thompson SR, Beggs WR, Campbell MC, Mokone GG, Mpoloka SW, Fokunang C, Njamnshi AK, Mbunwe E, Woldemeskel D, Belay G, Nyambo T, Tishkoff SA, Collman RG, Bushman FD (2021) Redondovirus Diversity and Evolution on Global, Individual, and Molecular Scales. J Virol 95:e0081721