

Supplementary Information

Supplementary Figure 1. Approximate ranges of *Nipponorchestia curvatus*, *Nipponorchestia nudiramus*, and *Mizuhorchestia urospina*. Available at <https://doi.org/10.6084/m9.figshare...> .

Supplementary File 1. Multi-Fasta file containing the aligned sequences of 16S rRNA for the present phylogenetic analyses. Available at <https://doi.org/10.6084/m9.figshare...> .

Acknowledgements

We are grateful to Kohei Kawamura (Nagoya University) for providing specimens and valuable information of *A. gujoensis*, and to Taro Jonishi (Kyoto University) for allowing us to use his photograph. We thank Dr. Simpei F. Hiruta (The Mt. Fuji Institute for Nature and Biology, Showa University) for advising of DNA sequencing. We are very grateful to Mr. Takamasa Nemoto for taking and providing photographs of mites. We also thank Edanz (<http://jp.edanz.com/ac>) for editing a draft of this manuscript.

Authors Contributions

Taiga Kato: Conceptualization; Resources; Investigation; Formal analysis; Visualization; Writing – original draft. Takafumi Nakano: Conceptualization; Supervision; Resources; Investigation; Writing – original draft; Writing – review & editing; Project administration; Funding acquisition.

Funding

This research was supported by research funds of the JSSZ Foundation for SS, as well as by the JSPS KAKENHI Grant Number 18K06392 to SS and SFH.

Declarations

Competing interests. The authors declare that they have no known conflicts of interest to influence the work reported in this paper.

Ethical standards. The animals used in this study were appropriately treated in accordance with the Regulation on Animal Experimentation at Kyoto University under the permit numbers HY2711, HY2810, HY2909, HY3009, and 2019Y7.

References

- Enghoff, H. 1985. The millipede family Nemasomatidae. With the description of a new genus, and a revision of *Orinisobates* (Diplopoda: Julida). *Entomologica Scandinavica* 16: 27–67.
- Enghoff, H., Golovatch, S., Short, M., Stoev, P., and Wesener, T. 2015. Diplopoda — Taxonomic overview. Pp. 363–453. *In*: Minelli, A. (Ed.) *Treatise on Zoology — Anatomy, Taxonomy, Biology. The Myriapoda. Volume 2*. Brill, Leiden