

## Outlineoffungi.org - Note 938 *Sanchytriomycota*

Web-links: [Index Fungorum](#), [Facesoffungi](#), [Mycobank](#)

*Sanchytriomycota* Galindo, López-García, Torruella, Karpov & Moreira

Galindo et al. (2021) introduced this phylum to accommodate sanchytrids which are obligate parasites of freshwater algae. Morphologically, the members of *Sanchytriomycota* are superficially resemble the taxa in *Chytridiomycetes*. Currently, the phylum *Sanchytriomycota* comprises a single class (*Sanchytriomycetes*), an order (*Sanchytriales*), a family (*Sanchytriaceae*) and two monotypic genera viz., *Sanchytrium* Karpov & Aleoshin 2017 (Type: *Sanchytrium tribonematis* Karpov & Aleoshin 2017 fide [Karpov et al. 2017](#)) and *Amoeboradix* Karpov, López-García, Mamkaeva & Moreira (2017) (Type species: *Amoeboradix gromovii* Karpov, López-García, Mamkaeva & Moreira 2017 fide [Karpov et al. 2018](#)). Based on whole-genome amplification (WGA) and phylogenomic analysis, *Blastocladiomycota* is a sister clade for *Sanchytriomycota* ([Galindo et al. 2021](#))

### Entry by

**Nalin N. Wijayawardene**, Centre for Yunnan Plateau Biological Resources Protection and Utilization, College of Biological Resource and Food Engineering, Qujing Normal University, Qujing 655011, China

**Sergey A. Karpov**

Zoological Institute, Russian Academy of Sciences, St. Petersburg 198904, Russian Federation

### References

- Galindo LJ, López-García P, Torruella G, Karpov S, Moreira D. 2021 – Phylogenomics of a new fungal phylum reveals multiple waves of reductive evolution across *Holomycota*. *Nature Communications* 12, 4973. <https://doi.org/10.1038/s41467-021-25308-w>
- Karpov SA, López-García P, Mamkaeva MA, Klimov VI, Vishnyakov AE, Tsvetkova VS, Moreira D. 2018 – The chytrid-like parasites of algae *Amoeboradix gromovi* gen. et sp. nov. and *Sanchytrium tribonematis* belong to a new fungal lineage. *Protist* 169, 122–140. <https://doi.org/10.1016/j.protis.2017.11.002>
- Karpov SA, Mamanazarova KS, Popova OV, Aleoshin VV, James TY, Mamkaeva MA, Tsvetkova VS, Vishnyakov AE, Longcore JE. 2017 – *Monoblepharidomycetes* diversity includes new parasitic and saprotrophic species with highly intronized rDNA. *Fungal Biology* 121, 729–741. <https://doi.org/10.1016/j.funbio.2017.05.002>

(Edited by: **Kevin D. Hyde & Maryam Tavakol Noorabadi**)

Published online 2 April 2024