

Genus *Pernthalerella*

Etymology

[Pern.tha.le.re'lla] **N.L. fem. dim. n.** *Pernthalerella*, Named after Austrian scientist Jakob Pernthaler, who greatly contributed to the field of aquatic microbial ecology.

Nomenclatural type

Species *Pernthalerella aquatica*^{Ts}

Description

The genus contains three species, *Pernthalerella aquatica* (GCA_965194445.1), *Pernthalerella lacuna* (GCA_965194545.1), and *Pernthalerella communis* (GCA_965194595.1) that were isolated from freshwater lakes. Type species is *Pernthalerella aquatica* GE-M3 (GCA_965194445.1). The closest cultivated relative is *Paucimonas lemoignei* DSM 7445 (GCF_004342585.1) with average amino acid identities of 64-64.5% and average nucleotide identities of 69.1-71%. SILVA classification of 16S rRNA genes is Bacteria/Proteobacteria/Gammaproteobacteria/Burkholderiales/Oxalobacteraceae/Noviherbaspirillum_3. Current GTDB classification (R220): d__Bacteria; p__Pseudomonadota; c__Gammaproteobacteria; o__Burkholderiales; f__Burkholderiaceae; g__SYFN01.

Classification

Bacteria » *Pseudomonadota* » *Betaproteobacteria* » *Burkholderiales* » *Burkholderiaceae* » *Pernthalerella*

References

Effective publication: Salcher et al., 2025 [1]

Registry URL

<https://seqco.de/i:49109>

References

1. Salcher et al. (2025). Bringing the uncultivated microbial majority of freshwater ecosystems into culture. *Nature Communications*. DOI:10.1038/s41467-025-63266-9