

Order *Phycocordibacterales*

Etymology

[Phy.co.cor.di.bac.ter.ales] **L. masc. n.** *Phycocordibacter*, referring to the type genus *Phycocordibacter*; *-ales*, ending to denote an order; **N.L. fem. pl. n.** *Phycocordibacterales*, the *Phycocordibacter* order

Nomenclatural type

Genus *Phycocordibacter*

Description

This is an order within the Patescibacteria phylum, some of whose members are symbionts of the microalgae *Nannochloropsis oceanica* strain IMET1 and *Tetrademus obliquus* strain HTB1. Both microalgae are grown with 10% CO₂ for carbon mitigation research.

Classification

Bacteria » *Patescibacteriota* » “Paceibacteria” » *Phycocordibacterales*

References

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

Registry URL

<https://seqco.de/i:49171>

References

1. Jonas et al. (2025). Two novel Patescibacteria: *Phycocordibacter aenigmaticus* gen. nov. sp. nov. and *Minusculum obligatum* gen. nov. sp. nov., both associated with microalgae optimized for carbon dioxide sequestration from flue gas. *mBio*. DOI:[10.1128/mbio.01231-25](https://doi.org/10.1128/mbio.01231-25)