

Phylum *Cyanobacteriota*

Etymology

[Cy.a.no.bac.te.ri.o'ta] **N.L. neut. n.** *Cyanobacterium*, the type genus of the phylum; *-ota*, ending to denote a phylum; **N.L. neut. pl. n.** *Cyanobacteriota*, the Cyanobacterium phylum

Nomenclatural type

Genus *Cyanobacterium*

Description

Oren et al., 2022: The properties of the taxon are as described by [Castenholz, 2015](#) and emended by [Garcia-Pichel et al., 2020](#) as organisms in the domain Bacteria able to carry out oxygenic photosynthesis with water as an electron donor and to reduce carbon dioxide as a source of carbon, or those secondarily evolved from such organisms.

Classification

Bacteria » *Cyanobacteriota*

References

Effective publication: Oren et al., 2022 [1]

Original (not valid) publication: Castenholz, 2015 [2] and Garcia-Pichel et al., 2020 [3]

Registry URL

<https://seqco.de/i:2098>

References

1. Oren et al. (2022). Validation of the names *Cyanobacterium* and *Cyanobacterium stanieri*, and proposal of *Cyanobacteriota* phyl. nov. *International Journal of Systematic and Evolutionary Microbiology*. DOI:10.1099/ijsem.0.005528
2. Castenholz (2015). *General Characteristics of the Cyanobacteria*. *Bergey's Manual of Systematics of Archaea and Bacteria*. DOI:10.1002/9781118960608.cbm00019
3. Garcia-Pichel et al. (2020). What's in a name? The case of cyanobacteria. *Journal of Phycology*. DOI:10.1111/jpy.12934