

Phylum *Patescibacteriota*

Etymology

[Pa.tes.ci.bac.te.ri.o'ta] N.L. *Patescibacterium*, type genus of the phylum; *-ota*, ending to denote a phylum; N.L. neut. pl. n. *Patescibacteriota*, the Patescibacterium phylum

Nomenclatural type

Genus *Patescibacterium*

Description

The phylum represents a monophyletic lineage based on the concatenated phylogeny of 120 protein markers and contains the class *Patescibacteriia*. This phylum is characterized by members with a low genomic GC content ($33.6 \pm 6.7\%$), reduced genome sizes ($919.3 \text{ kbp} \pm 256 \text{ kbp}$) and limited metabolic capabilities, that are likely to rely on symbiotic partners for survival. The type genus is *Patescibacterium*.

Classification

Bacteria » *Patescibacteriota*

References

Effective publication: Dutkiewicz et al., 2024 [1]
Original (not valid) publication: Rinke et al., 2013 [2]
Assigned taxonomically: Dutkiewicz et al., 2024 [1]

Registry URL

<https://seqco.de/i:48240>

References

1. Dutkiewicz et al. (2024). Proposal of *Patescibacterium danicum* gen. Nov., sp. nov. in the ubiquitous ultrasmall bacterial phylum *Patescibacteriota* phyl. Nov. *ISME Communications*. DOI:10.1093/ismeco/ycae147
2. Rinke et al. (2013). Insights into the phylogeny and coding potential of microbial dark matter. *Nature*. DOI:10.1038/nature12352