

## Phylum *Chloroflexota*

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### Etymology

[Chlo.ro.fle.xo'ta] N.L. masc. n. *Chloroflexus*, type genus of the phylum; N.L. neut. pl. suff. *-ota*, ending to denote a phylum; N.L. neut. pl. n. *Chloroflexota*, the Chloroflexus phylum

### Nomenclatural type

Genus *Chloroflexus*

### Description

**Garrity and Holt, 2021:** The phylum *Chloroflexi* is a deep branching lineage of *Bacteria*. The single class within *Chloroflexi* subdivides into two orders: the “*Chloroflexales*” and the “*Herpetosiphonales*”. Gram-negative, filamentous *Bacteria*. exhibiting gliding motility. Peptidoglycan contains L-ornithine as the diamino acid. Lipopolysaccharide-containing outer membrane not present.

**Oren and Garrity, 2021:** The properties of the taxon are as described by Garrity and Holt, 2001. Correction of the effectively published synonym: *Chloroflexi* (sic) Garrity and Holt 2001. Type genus: *Chloroflexus* Pierson and Castenholz 1974 (Approved Lists 1980).

### Classification

*Bacteria* » *Chloroflexota*

### References

Effective publication: Garrity et al., 2001 [1]  
*Corrigendum:* Oren, Garrity, 2021 [2] (from “Chloroflexi”)  
*Emendavit:* Oren, Garrity, 2021 [2]

### Registry URL

<https://seqco.de/i:752>

## References

1. Garrity et al. (2001). Phylum BVI. Chloroflexi phy. nov. *Bergey's Manual® of Systematic Bacteriology*. [DOI:10.1007/978-0-387-21609-6\\_23](https://doi.org/10.1007/978-0-387-21609-6_23)
2. Oren, Garrity (2021). Valid publication of the names of forty-two phyla of prokaryotes. *International Journal of Systematic and Evolutionary Microbiology*. [DOI:10.1099/ijsem.0.005056](https://doi.org/10.1099/ijsem.0.005056)