

Order *Methanoflorentales*

Etymology

[Me.tha.no.flo.ren.ta'les] **N.L. masc. n.** *Methanoflorens*, a genus; *-ales*, ending to denote an order; **N.L. fem. pl. n.** *Methanoflorentales*, the Methanoflorens order

Nomenclatural type

Genus *Methanoflorens*

Description

Woodcroft et al., 2018 (with modifications): The description is the same as given for the type genus *Methanoflorens* and the family *Methanoflorentaceae* [Mondav et al. \(2014\)](#) with the following modifications. The delineation of the order is determined by phylogenetic analyses showing that the *Methanocellales* would otherwise be paraphyletic. The order currently comprises two species *M. stordalenmirens* and *M. crillii*. The type genus is *Methanoflorens*.

Methane producing organisms linked to be key mediators of methane-based positive feedback to climate warming. Represented by microbial population from permafrost. Previously known as the uncultivated lineage 'Rice Cluster II'

Classification

Archaea » *Methanobacteriota* » "Methanomicrobia" » *Methanoflorentales*

References

Effective publication: Woodcroft et al., 2018 [1]

Assigned taxonomically: Woodcroft et al., 2018 [1]

Registry URL

<https://seqco.de/i:32194>

References

1. Woodcroft et al. (2018). Genome-centric view of carbon processing in thawing permafrost. *Nature*. [DOI:10.1038/s41586-018-0338-1](https://doi.org/10.1038/s41586-018-0338-1)