

Genus *Oederibacterium*

Etymology

[Oe.de.ri.bac.te'ri.um] **N.L. neut. n.** *bacterium*, rod; **N.L. neut. n.** *Oederibacterium*, a bacterium named in honor of Georg Christian Oeder

Nomenclatural type

Species *Oederibacterium danicum*^{Ts}

Description

Genus named after Georg Christian Oeder (1728-1791) – scientist who initiated the Flora Danica project (1753-1883). The genus is represented by a single genome and forms a monophyletic lineage based on the phylogeny of 120 concatenated bacterial protein markers and ANI-based classification to GTDB R226. Based on metabolic reconstruction, *Oederibacterium* is estimated to be motile, Gram-negative, and adapted to an anaerobic environment. *Oederibacterium danicum* genome encodes the potential to ferment glucose to acetate, use ethanolamine as a source of nitrogen and energy, and to fix or detoxify formaldehyde using the ribulose monophosphate pathway.

Classification

Bacteria » *Oederibacteriota* » *Oederibacteriia* » *Oederibacteriales* » *Oederibacteriaceae* » *Oederibacterium*

References

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

Registry URL

<https://seqco.de/i:49757>

References

1. Sereika et al. (2025). Genome-resolved long-read sequencing expands known microbial diversity across terrestrial habitats. *Nature Microbiology*. [DOI:10.1038/s41564-025-02062-z](https://doi.org/10.1038/s41564-025-02062-z)