

Genus *Muellerivita*

Etymology

[Mu.e.lle.ri.vi'ta] **L. fem. n.** *vita*, life; **N.L. fem. n.** *Muellerivita*, a bacterium named in honor of Otto Friedrich Mueller

Nomenclatural type

Species *Muellerivita nordica*^{Ts}

Description

Genus named after Otto Friedrich Mueller (1730–1784) – scientist who contributed significantly to the Flora Danica project (1753–1883). Based on the phylogeny of 120 concatenated bacterial protein markers and ANI-based classification to GTDB R226, the genus is formerly known as "DATKNU01". Based on metabolic reconstruction, *Muellerivita* is inferred to encode the TCA cycle, peptidoglycan biosynthesis genes, and the rod shape-determining protein MreB.

Classification

Bacteria » *Muellerivitota* » *Muellerivitia* » *Muellerivitales* » *Muellerivitaceae* » *Muellerivita*

References

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

Registry URL

<https://seqco.de/i:51275>

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