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