

Register list for 3 new names including *Phosphoribacter* gen. nov.

Submitted by Nielsen, Per H.

Genus *Phosphoribacter*

Etymology

[Phos.pho.ri.bac'ter] L. masc. n. *phosphorus*, phosphorus; N.L. masc. n. *bacter*, a rod; N.L. masc. n. *Phosphoribacter*, a rod shaped bacteria that stores phosphate

Nomenclatural type

Species *Phosphoribacter baldrii*^{TS}

Description

Rod shaped bacterial genus from sludge. Likely utilizes a range of substrates including sugars and amino acids, is capable of polyphosphate accumulation and cycling.

Classification

Bacteria » *Actinomycetota* » *Actinomycetes* » *Micrococcales* » *Dermatophilaceae* » *Phosphoribacter*

References

Effective publication: Singleton et al., 2022 [1]

Registry URL

<https://seqco.de/i:23422>

Species *Phosphoribacter baldrii*^{TS}

Etymology

[ba.l.dri'i] N.L. gen. n. *baldrii*, of Baldr, Norse god twin of Hodr, indicating the close relationship of the 16S rRNA gene sequence for *Phosphoribacter baldrii* and *Phosphoribacter hodrii*

Nomenclatural type

[NCBI Assembly: GCA_016704565.1](https://ncbi.nlm.nih.gov/assembly/GCA_016704565.1)^{TS}

Description

Rod shaped cells 0.4-0.7 x 1-1.7 µm (diameter x length), usually organized in microcolonies embedded in the structure of the floc. Likely utilizes a range of substrates including sugars and amino acids, is capable of polyphosphate accumulation and cycling, with the distinction of potential ethanolamine use

Classification

Bacteria » *Actinomycetota* » *Actinomycetes* » *Micrococcales* » *Dermatophilaceae* » *Phosphoribacter* » *Phosphoribacter baldrii*^{TS}

References

Effective publication: Singleton et al., 2022 [1]

Assigned taxonomically: Singleton et al., 2022 [1]

Registry URL

<https://seqco.de/i:42457>

Species *Phosphoribacter hodrii*

Etymology

[ho.dri'i] N.L. gen. n. *hodrii*, of Hodr, Norse god twin of Baldr, indicating the close relationship of the 16S rRNA gene sequence for *Phosphoribacter hodrii* and *Phosphoribacter baldrii*

Nomenclatural type

[NCBI Assembly: GCA_016707175.1](#)^{TS}

Description

Rod shaped bacterial species from sludge. Likely utilizes a range of substrates including sugars and amino acids, is capable of polyphosphate accumulation and cycling.

Classification

Bacteria » *Actinomycetota* » *Actinomycetes* » *Micrococcales* » *Dermatophilaceae* » *Phosphoribacter* » *Phosphoribacter hodrii*

References

Effective publication: Singleton et al., 2022 [1]
Assigned taxonomically: Singleton et al., 2022 [1]

Registry URL

<https://seqco.de/i:42133>

References

1. Singleton et al. (2022). The novel genus, '*Candidatus Phosphoribacter*', previously identified as *Tetrasphaera*, is the dominant polyphosphate accumulating lineage in EBPR wastewater treatment plants worldwide. *The ISME Journal*. DOI:[10.1038/s41396-022-01212-z](https://doi.org/10.1038/s41396-022-01212-z)

Register List Certificate of Validation

On behalf of the *Committee on the Systematics of Prokaryotes Described from Sequence Data* (SeqCode Committee), we hereby certify that the Register List seqco.de/r:km1jc405 submitted by Nielsen, Per H. and including 3 new names has been successfully validated.

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