

Fervidibacter antarcticus sp. nov.

Submitted by Herbold, Craig William

Species *Fervidibacter antarcticus*

Etymology

[an.tar'cti.cus] L. masc. adj. *antarcticus*, referring to the increased abundance of this organism at the Antarctic province

Nomenclatural type

[NCBI Assembly: GCA_040290365.1](#)^{Ts}

Description

A species of *Fervidibacter* found in soils heated by volcanic activity (65 degree C) on Mt. Erebus in Antarctica. Metabolism is predicted to be typical of *Fervidibacter*, a globally distributed genus of thermophilic polysaccharide degraders.

Classification

Bacteria » *Armatimonadota* » *Fervidibacteria* » *Fervidibacterales* » *Fervidibacteraceae* » *Fervidibacter* » *Fervidibacter antarcticus*

References

- Effective publication: Herbold et al., 2024 [1]
Assigned taxonomically: Nou et al., 2024 [2]

Registry URL

<https://seqco.de/i:49649>

References

1. Herbold et al. (2024). Nutritional niches of potentially endemic, facultatively anaerobic heterotrophs from an isolated Antarctic terrestrial hydrothermal refugium elucidated through metagenomics. *Environmental Microbiome*. DOI:10.1186/s40793-024-00655-5
2. Nou et al. (2024). Genome-guided isolation of the hyperthermophilic aerobic *Fervidibacter sacchari* reveals conserved polysaccharide metabolism in the Armatimonadota. *Nature Communications*. DOI:10.1038/s41467-024-53784-3

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:gtqmfi86 submitted by **Herbold, Craig William** and including 1 new name has been successfully validated.

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