

Register list for *Polarisedimenticola svalbardensis* gen. nov. sp. nov. and their lineage

Submitted by Loy, Alexander

Class *Polarisedimenticola*

Etymology

N.L. masc. n. *Polarisedimenticola*, the type genus of the class; L. neut. pl. suff. *-ia*, ending to denote a class; N.L. neut. pl. n. *Polarisedimenticola*, the *Polarisedimenticola* class

Nomenclatural type

Genus *Polarisedimenticola*

Description

Polarisedimenticola was previously known as GTDB class Mor1 or Acidobacteria subdivision 22. The type genus of this class is *Polarisedimenticola*, which was predicted to be a facultative or aerotolerant anaerobe that degrades proteins and respire oxygen, nitrate, sulfur/polysulfide or metal-oxides based on genome analysis.

Classification

Bacteria » *Acidobacteriota* » *Polarisedimenticola*

References

Effective publication: Flieder et al., 2021 [1]

Registry URL

<https://seqco.de/i:23543>

Order *Polarisedimenticolales*

Etymology

N.L. masc. n. *Polarisedimenticola*, the type genus of the order; L. fem. pl. suff. *-ales*, ending to denote an order; N.L. fem. pl. n. *Polarisedimenticolales*, the *Polarisedimenticola* order

Nomenclatural type

Genus *Polarisedimenticola*

Description

Polarisedimenticolales was previously known as GTDB order Mor1. The type genus of this order is *Polarisedimenticola*, which was predicted to be a facultative or aerotolerant anaerobe that degrades proteins and respire oxygen, nitrate, sulfur/polysulfide or metal-oxides based on genome analysis.

Classification

Bacteria » *Acidobacteriota* » *Polarisedimenticola* » *Polarisedimenticolales*

References

Effective publication: Flieder et al., 2021 [1]

Registry URL

<https://seqco.de/i:23542>

Family *Polarisedimenticolaceae*

Etymology

N.L. masc. n. *Polarisedimenticola*, the type genus of the family; L. fem. pl. suff. *-aceae*, ending to denote a family;
N.L. fem. pl. n. *Polarisedimenticolaceae*, the *Polarisedimenticola* family

Nomenclatural type

Genus *Polarisedimenticola*

Description

Polarisedimenticolaceae was previously known as GTDB family Mor1. The type genus of this family is *Polarisedimenticola*, which was predicted to be a facultative or aerotolerant anaerobe that degrades proteins and respire oxygen, nitrate, sulfur/polysulfide or metal-oxides based on genome analysis.

Classification

Bacteria » *Acidobacteriota* » *Polarisedimenticolia* » *Polarisedimenticolales* » *Polarisedimenticolaceae*

References

Effective publication: Flieder et al., 2021 [1]

Registry URL

<https://seqco.de/i:23541>

Genus *Polarisedimenticola*

Etymology

[Po.la.ri.se.di.men.ti'co.la.] L. masc. adj. *polaris*, polar; L. neut. n. *sedimentum*, sediment; L. masc. suff. *-cola*, inhabitant, dweller; N.L. masc. n. *Polarisedimenticola*, an inhabitant of polar sediments

Nomenclatural type

Species *Polarisedimenticola svalbardensis*^{Ts}

Description

The genus description is the same as that of the type species, *Polarisedimenticola svalbardensis*.

Classification

Bacteria » *Acidobacteriota* » *Polarisedimenticolia* » *Polarisedimenticolales* » *Polarisedimenticolaceae* »
Polarisedimenticola

References

Effective publication: Flieder et al., 2021 [1]

Registry URL

<https://seqco.de/i:23540>

Species *Polarisedimenticola svalbardensis*^{Ts}

Etymology

[sval.bar.den'sis.] N.L. masc. adj. *svalbardensis*, pertaining to Svalbard

Nomenclatural type

[NCBI Assembly: GCA_014764515.1](#)^{Ts}

Description

Polarisedimenticola svalbardensis MAG AM4 was recovered from marine sediment from Van Keulenfjorden, Svalbard (sampling date: July, 2016, location: latitude: 77°32.260' N longitude: 15°39.434' E, water depth: 55 m, sediment depth: 0-5 cm, sediment temperature: – 1.7°C to + 3°C). Genome-based metabolic reconstruction suggested this species is a facultative or aerotolerant anaerobe that degrades proteins and respire oxygen, nitrate, sulfur/polysulfide or metal-oxides.

Classification

Bacteria » *Acidobacteriota* » *Polarisedimenticolia* » *Polarisedimenticolales* » *Polarisedimenticolaceae* » *Polarisedimenticola* » *Polarisedimenticola svalbardensis*^{Ts}

References

Effective publication: Flieder et al., 2021 [1]

Assigned taxonomically: Flieder et al., 2021 [1]

Registry URL

<https://seqco.de/i:23539>

References

1. Flieder et al. (2021). Novel taxa of Acidobacteriota implicated in seafloor sulfur cycling. *The ISME Journal*.
[DOI:10.1038/s41396-021-00992-0](https://doi.org/10.1038/s41396-021-00992-0)

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:qzix9uu9 submitted by **Loy, Alexander** and including 5 new names has been successfully validated.

Date of Priority: 2025-07-24 08:15 UTC

DOI: 10.57973/seqcode.r:qzix9uu9

