

Register list for 4 new names including *Nitrosomaritimum* gen. nov.

Submitted by Zhao, Ze

Genus *Nitrosomaritimum*

Etymology

[Ni.tro.so.ma.ri.ti'mum] L. neut. adj. *nitrosus*, nitrous; L. neut. adj. *maritimum*, of the sea; N.L. neut. n. *Nitrosomaritimum*, referring to the organism as an ammonia oxidizer capable of converting ammonia to nitrite, distributed in coastal water and sediment

Nomenclatural type

Species *Nitrosomaritimum aestuarii*^{Ts}

Description

The name "*Nitrosomaritimum*" refers to the organism as an ammonia oxidizer capable of converting ammonia to nitrite (from the Latin "*nitrosus*", full of natron; here intended to mean nitrous) and its habitat distribution in coastal water and sediments (from the Latin adjective '*maritimum*', meaning coastal).

Classification

Archaea » *Thermoproteota* » *Nitrososphaeria* » *Nitrosopumilales* » *Nitrosopumilaceae* » *Nitrosomaritimum*

References

Effective publication: Zhao et al., 2024 [1]

Registry URL

<https://seqco.de/i:48769>

Species *Nitrosomaritimum aestuarii*^{Ts}

Etymology

[aes.tu.a.ri'i] L. gen. n. *aestuarii*, of estuary, pertaining to source of isolation

Nomenclatural type

[NCBI Assembly: GCA_013867335.1](#)^{Ts}

Description

The "aestuariumsis" indicates the first metagenome-assembled genome (MAG) of this species was recovered from the estuary.

Classification

Archaea » *Thermoproteota* » *Nitrososphaeria* » *Nitrosopumilales* » *Nitrosopumilaceae* » *Nitrosomaritimum* » *Nitrosomaritimum aestuarii*^{Ts}

References

Effective publication: Zhao et al., 2024 [1]

Assigned taxonomically: Zhao et al., 2024 [1]

Registry URL

<https://seqco.de/i:48841>

Species *Nitrosomaritimum khambatense*

Etymology

[kham.ba.ten'se] N.L. neut. adj. *khambatense*, of Khambat, referring to this organism first identified in the Gulf of Khambhat

Nomenclatural type

[NCBI Assembly: GCA_011773785.1](#)^{Ts}

Description

The "khambatensis" indicates the first metagenome-assembled genome (MAG) of this species was recovered from deep marine sediments in the Gulf of Khambhat.

Classification

Archaea » *Thermoproteota* » *Nitrososphaeria* » *Nitrosopumilales* » *Nitrosopumilaceae* » *Nitrosomaritimum* » *Nitrosomaritimum khambatense*

References

Effective publication: Zhao et al., 2024 [1]

Registry URL

<https://seqco.de/i:48842>

Species *Nitrosomaritimum yanchengense*

Etymology

[yan.cheng.en'se] N.L. neut. adj. *yanchengense*, referring to this organism first identified in intertidal aquifers of Yancheng Wetland

Nomenclatural type

[NCBI Assembly: GCA_042138165.1](#)^{Ts}

Description

The "yanchengensis" indicates the first metagenome-assembled genome (MAG) of this species was recovered from the intertidal aquifers of Yancheng Wetland.

Classification

Archaea » *Thermoproteota* » *Nitrososphaeria* » *Nitrosopumilales* » *Nitrosopumilaceae* » *Nitrosomaritimum* » *Nitrosomaritimum yanchengense*

References

Effective publication: Zhao et al., 2024 [1]

Registry URL

<https://seqco.de/i:48840>

References

1. Zhao et al. (2024). Discovery of *Candidatus Nitrosomaritimum* as a New Genus of Ammonia-Oxidizing Archaea Widespread in Anoxic Saltmarsh Intertidal Aquifers. *Environmental Science & Technology*. [DOI:10.1021/acs.est.4c02321](https://doi.org/10.1021/acs.est.4c02321)

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/bzk8d90a submitted by Zhao, Ze and including 4 new names has been successfully validated.

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