Methanoglobus hypatiae gen. nov. sp. nov.

Submitted by Hatzenpichler, Roland

Genus *Methanoglobus*

Etymology
[Me.tha.no.glo'bus] **N.L. pref.** *methano-*, pertaining to methane; **L. masc. n.** *globus*, sphere, globe; **N.L. masc. n.** *Methanoglobus*, methane producing organism spherical in shape

Nomenclatural type
Species *Methanoglobus hypatiae*[Ts]

Description
Methane producing organism spherical in shape

Classification
Archaea » *Methanobacteriota* » *Archaeoglobi* » *Archaeoglobales* » *Archaeoglobaceae* » *Methanoglobus*

References
Effective publication: Lynes et al., 2024 [1]
Original (not valid) publication: Buessecker et al., 2023 [2]

Registry URL
https://seqco.de/i:41285

Species *Methanoglobus hypatiae*[Ts]

Etymology
[hy.pa'ti.ae] **N.L. gen. n.** *hypatiae*, of Hypatia, to honor Hypatia of Alexandria, a respected and renowned philosopher of ancient Alexandria, Egypt, who made significant contributions to the understanding of mathematics and astronomy. A symbol of intellectual courage and scholarly achievement.

Nomenclatural type
NCBI Assembly: GCA_036867765.1 [Ts]

Description
Strain LCB24, is named in honor of Hypatia of Alexandria, a respected and renowned philosopher of ancient Alexandria, Egypt, who made significant contributions to the understanding of mathematics and astronomy. A symbol of intellectual courage and scholarly achievement. This archaeon was cultured from an unnamed hot spring in the Lower Culex Basin of Yellowstone National Park identified as feature LCB024. This archaeon is an obligately anaerobic thermophile that performs methylotrophic methanogenesis using methylamines and grows as regular to irregular coccoid cells approximately 0.5 to 1 µm in width.

Classification
Archaea » *Methanobacteriota* » *Archaeoglobi* » *Archaeoglobales* » *Archaeoglobaceae* » *Methanoglobus* » *Methanoglobus hypatiae*[Ts]

References
Effective publication: Lynes et al., 2024 [1]

Registry URL
https://seqco.de/i:55875

References

1. Lynes et al. (2024). Methylotrophic methanogenesis in the *Archaeoglobi* revealed by cultivation of *Ca.* Methanoglobus hypatiae from a Yellowstone hot spring. *The ISME Journal*. DOI:10.1093/ismejo/wrae026
2. Buessecker et al. (2023). Mcr-dependent methanogenesis in *Archaeoglobaceae* enriched from a terrestrial hot spring. *The ISME Journal*. DOI:10.1038/s41396-023-01472-3

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:nzegoisa** submitted by **Hatzenpichler, Roland** and including 2 new names has been successfully validated.

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