

# Methanogranum gen. nov.

Submitted by Protasov, Evgenii

## Genus *Methanogranum*

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### Etymology

[Me.tha.no.gra'num] N.L. neut. n. *methanum*, methane; N.L. pref. *methano-*, pertaining to methane (in compound words); L. neut. n. *granum*, grain, seed; N.L. neut. n. *Methanogranum*, a methane-producing grain-like organism

### Nomenclatural type

Species *Methanogranum gryphiswaldense*<sup>Ts</sup>

### Description

The genus is defined by relative evolutionary divergence (RED) and phylogenomic analysis as a monophyletic group.

### Classification

*Archaea* » *Methanobacteriota* » *Thermoplasmata* » *Methanomassiliicoccales* » *Methanomethylophilaceae* » *Methanogranum*

### References

Effective publication: Protasov et al., 2023 [1]  
Original (not valid) publication: Iino et al., 2013 [2]

### Registry URL

<https://seqco.de/i:32537>

## Species *Methanogranum gryphiswaldense*<sup>Ts</sup>

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### Etymology

[gry.phis.wald.en'se] N.L. neut. adj. *gryphiswaldense*, pertaining to Gryphiswald, the Latin name of the town Greifswald in Germany.

### Nomenclatural type

[NCBI Assembly: GCA\\_019262145.1](#)<sup>Ts</sup>

### Description

The species identified by metagenomic analyses. The G+C content of the type genome is 43.7 mol%, and the genome size is 1.51 Mbp.

### Classification

*Archaea* » *Methanobacteriota* » *Thermoplasmata* » *Methanomassiliicoccales* » *Methanomethylophilaceae* » *Methanogranum* » *Methanogranum gryphiswaldense*<sup>Ts</sup>

### References

Effective publication: Protasov et al., 2023 [1]  
Assigned taxonomically: Weil et al., 2021 [3]

### Registry URL

<https://seqco.de/i:32536>

## References

1. Protasov et al. (2023). Diversity and taxonomic revision of methanogens and other archaea in the intestinal tract of terrestrial arthropods. *Frontiers in Microbiology*. DOI:10.3389/fmicb.2023.1281628
2. Iino et al. (2013). *Candidatus* Methanogranum caenicola: a Novel Methanogen from the Anaerobic Digested Sludge, and Proposal of *Methanomassiliicoccaceae* fam. nov. and *Methanomassiliicoccales* ord. nov., for a Methanogenic Lineage of the Class *Thermoplasmata*. *Microbes and Environments*. DOI:10.1264/jsme2.me12189
3. Weil et al. (2021). Full Genome Sequence of a *Methanomassiliicoccales* Representative Enriched from Peat Soil. *Microbiology Resource Announcements*. DOI:10.1128/mra.00443-21

## 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:gyhq89gf](https://seqco.de/r:gyhq89gf) submitted by Protasov, Evgenii and including 2 new names has been successfully validated.

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