

Nanoarchaeaceae fam. nov.

Submitted by St. John, Emily

Family *Nanoarchaeaceae*

Etymology

[Na.no.ar.chae.a'ce.ae] **N.L. neut. n.** *Nanoarchaeum*, referring to the type genus *Nanoarchaeum*; **-aceae**, ending to denote a family; **N.L. fem. pl. n.** *Nanoarchaeaceae*, the *Nanoarchaeum* family

Nomenclatural type

Genus *Nanoarchaeum*

Description

Huber et al., 2016: The "*Nanoarchaeaceae*" represent one of the two families within the "*Nanoarchaeales*". They are extremely tiny cocci with reduced genomes. They are hyperthermophilic and anaerobic. They form a close association with their hosts and their growth depends on metabolic products of their host cells. Only one representative is cultivated in the laboratory.

Kato et al., 2022: Reassigned *Nanoarchaeum equitans* to the class *Nanobdellales*, following effective publication of *Nanobdella aerobiophila* as the type strain for the entire phylum.

Classification

Archaea » *Nanobdellota* » *Nanobdellia* » *Nanobdellales* » *Nanoarchaeaceae*

References

Effective publication: Huber et al., 2016 [1]
Emendavit: Kato et al., 2022 [2]

Registry URL

<https://seqco.de/i:35248>

References

1. Huber et al. (2016). *Nanoarchaeaceae*. *Bergey's Manual of Systematics of Archaea and Bacteria*. DOI:10.1002/9781118960608.fbm00272
2. Kato et al. (2022). *Nanobdella aerobiophila* gen. nov., sp. nov., a thermoacidophilic, obligate ectosymbiotic archaeon, and proposal of *Nanobdellaceae* fam. nov., *Nanobdellales* ord. nov. and *Nanobdellia* class. nov. *International Journal of Systematic and Evolutionary Microbiology*. DOI:10.1099/ijsem.0.005489

Register List Certificate of Validation

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Date of Priority: 2026-05-01 01:04 UTC

DOI: 10.57973/seqcode.r:-_xs8yq9

