

Nanoclepta gen. nov., Nanoclepta minutus sp. nov.

Submitted by St. John, Emily

Genus *Nanoclepta*

Etymology

[Na.no.clep'ta] Gr. masc. n. *nanos*, a dwarf; Gr. masc. n. *kleptes*, a thief; N.L. masc. n. *Nanoclepta*, a small thief, a small organism that steals from its host

Nomenclatural type

Species *Nanoclepta minutus*^{Ts}

Description

Obligate ectosymbiont that lives on the surface of archaeal host cells. Cultivated under anaerobic, near-neutral (pH 6.0) conditions. Hyperthermophile, with best growth observed at 80-85°. Isolated in co-culture with archaeal hosts from hot springs. The type species is *Nanoclepta minutus*.

Classification

Archaea » "Nanoarchaeota" » *Nanobdellia* » *Nanobdellales* » *Nanobdellaceae* » *Nanoclepta*

References

Proposed: St. John et al., 2019

Registry URL

<https://seqco.de/i:23585>

Species *Nanoclepta minutus*^{Ts}

Etymology

[mi.nu'tus] L. masc. adj. *minutus*, small

Nomenclatural type

[NCBI Assembly: GCA_003568775.1](https://ncbi.nlm.nih.gov/assembly/GCA_003568775.1)^{Ts}

Description

Obligate ectosymbiont associated with the host *Zestosphaera tikiterensis*. Cells are coccoid, ~200 nm in diameter, with lophotrichous archaeal flagella. Best growth observed from 80-85°C. Cultivated under anaerobic conditions at pH 6.0. Isolated in co-culture with its host from "Cooking Pots" hot spring, Tikitere, New Zealand. The type material is strain Ncl-1, with a genome sequence available under NCBI WGS accession MWM100000000 and Genbank assembly accession GCA_003568775.1. The genome consists of 575,637 bp in 9 contigs, with a G+C content of 32.2%.

Classification

Archaea » "Nanoarchaeota" » *Nanobdellia* » *Nanobdellales* » *Nanobdellaceae* » *Nanoclepta* » *Nanoclepta minutus*^{Ts}

References

Proposed: St. John et al., 2019

Registry URL

<https://seqco.de/i:319>

References

1. St. John et al. (2019). A new symbiotic nanoarchaeote (*Candidatus Nanoclepta minutus*) and its host (*Zestosphaera tikiterensis* gen. nov., sp. nov.) from a New Zealand hot spring. *Systematic and Applied Microbiology*. DOI:[10.1016/j.syapm.2018.08.005](https://doi.org/10.1016/j.syapm.2018.08.005)

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:l5j9jhq3 submitted by **St. John, Emily** and including 2 new names has been successfully validated.

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