

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

Submitted by St. John, Emily

## Genus *Nanoclepta*

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### 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*<sup>Ts</sup>

### 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*<sup>Ts</sup>

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### Etymology

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

### Nomenclatural type

[INSDC Nucleotide: MWM100000000](#)<sup>Ts</sup>

### 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*<sup>Ts</sup>

### 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](https://seqco.de/r:l5j9jhq3) submitted by **St. John, Emily** and including 2 new names has been successfully validated.

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