

Spirobacillus cienkowskii sp. nov.

Submitted by Angst, Pascal

Genus *Spirobacillus*

Etymology

[Spi.ro.ba.ci'llus] **Gr. fem. n.** *speîra*, coil or spiral, referring to this organism spiral shape; **L. masc. n.** *bacillus*, cylindrical or rodlike bacterium; **N.L. masc. n.** *Spirobacillus*, rodlike bacterium, having a spiral shape

Nomenclatural type

Species *Spirobacillus cienkowskii*^{Ts}

Description

Spirobacillus, described initially by Elya Metchnikoff (1889). Proteobacteria of the order *Silvanigrellales*. Morphologically distinct as tightly coiled bacteria (3.50 µm in length by 1.07 µm in width), production of a pink carotenoid. Infects the hemolymph of multiple species of *Daphnia*. Basis of assignment: 16S rRNA gene sequence GenBank accession number EU220836, oligonucleotide sequence S-*Smet-1459-a-A-18 complementary to unique region of the 16S rRNA gene. Yet to be cultivated.

Classification

Bacteria » *Bdellovibrionota* » *Oligoflexia* » *Silvanigrellales* » *Silvanigrellaceae* » *Spirobacillus*

References

Effective publication: Angst et al., 2025 [1]
Assigned taxonomically: Hahn, Pitt, 2021 [2]

Registry URL

<https://seqco.de/i:36404>

Species *Spirobacillus cienkowskii*^{Ts}

Etymology

[ci.en.kow.ski'i] **N.L. gen. n.** *cienkowskii*, In memory of L. S. Cienkowsky for his contributions to the theory of pleomorphism.

Nomenclatural type

NCBI Assembly: [GCA_037081835.1](https://ncbi.nlm.nih.gov/assembly/GCA_037081835.1)^{Ts}

Description

Spirobacillus cienkowskii, described initially by Elya Metchnikoff (1889), *cienkowskii* in memory of L. S. Cienkowsky. Proteobacteria of the order *Silvanigrellales*. Morphologically distinct as a tightly coiled bacterium (3.50 µm in length by 1.07 µm in width), production of a pink carotenoid. Infects the hemolymph of multiple species of *Daphnia*. Basis of assignment: 16S rRNA gene sequence GenBank accession number EU220836, oligonucleotide sequence S-*Smet-1459-a-A-18 complementary to unique region of the 16S rRNA gene. Yet to be cultivated.

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References

Effective publication: Angst et al., 2025 [1]
Original (not valid) publication: Bresciani et al., 2018 [3]

Registry URL

<https://seqco.de/i:43962>

References

1. Angst et al. (2025). Genomic analysis of the zooplankton-associated pathogenic bacterium *Spirobacillus cienkowskii* reveals its functional and metabolic capacities. *Microbial Genomics*. [DOI:10.1099/mgen.0.001463](https://doi.org/10.1099/mgen.0.001463)
2. Hahn, Pitt (2021). *Silvanigrella*. *Bergey's Manual of Systematics of Archaea and Bacteria*. [DOI:10.1002/9781118960608.gbm01937](https://doi.org/10.1002/9781118960608.gbm01937)
3. Bresciani et al. (2018). Draft Genome Sequence of “*Candidatus Spirobacillus cienkowskii*,” a Pathogen of Freshwater *Daphnia* Species, Reconstructed from Hemolymph Metagenomic Reads. *Microbiology Resource Announcements*. [DOI:10.1128/mra.01175-18](https://doi.org/10.1128/mra.01175-18)

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:hyd0fmmd** submitted by **Angst, Pascal** and including 2 new names has been successfully validated.

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