

Genus *Candidatus Xiphinematincola*

Etymology

[Xi.phi.ne.mat.in'co.la] **N.L. neut. n.** *Xiphinema*, a nematode genus; **L. masc. n.** *incola*, dweller, inhabitant; **N.L. masc. n.** *Xiphinematincola*, the one who lives in nematode of the genus *Xiphinema*

Nomenclatural type

Unknown

Description

Rod-shaped, Gram-negative. Occurs as obligate endosymbionts of the nematode *X. pachtaicum* (Nematoda, Longidoridae) and a few other species of the *X. americanum* group, as follows from the 16S rRNA gene sequence analysis. Transmitted vertically through nematode generations. The DNA G+C content (39.4 % as determined for the type species) is lower than that in the recognized and *Candidatus* taxa of Burkholderiaceae.

Based on the 16S rRNA gene sequence analysis, the genus belongs to the family Burkholderiaceae order *Burkholderiales*, class *Betaproteobacteria* and is clearly different from all other genera with validly published names and *Candidatus* taxa composing Burkholderiaceae.

The type species is '*Candidatus Xiphinematincola pachtaicus*'.

Classification

Bacteria » *Pseudomonadota* » *Betaproteobacteria* » *Burkholderiales* » *Burkholderiaceae* » *Candidatus Xiphinematincola*

References

Proposed: Palomares-Rius et al., 2021

Registry URL

<https://seqco.de/i:708>

References

1. Palomares-Rius et al. (2021). '*Candidatus Xiphinematincola pachtaicus*' gen. nov., sp. nov., an endosymbiotic bacterium associated with nematode species of the genus *Xiphinema* (Nematoda, Longidoridae). *International Journal of Systematic and Evolutionary Microbiology*. DOI:10.1099/ijsem.0.004888