

Genus *Doriopsillibacter*

Etymology

[Do.ri.op.si.lli.bac'ter] N.L. fem. n. *Doriopsilla*, genus name of the host animal; N.L. masc. n. *bacter*, bacterium; N.L. masc. n. *Doriopsillibacter*, bacterium inhabiting *Doriopsilla* host

Nomenclatural type

Species *Doriopsillibacter californiensis*^{Ts}

Description

Doriopsillibacter (indicating host name). Belonging to *Persebacteraceae*, *Tethybacterales*, *Gammaproteobacteria*. The whole genome-based phylogenies enabled the assignment of the *Doriopsillibacter* genus. Symbiont of nudibranch *Doriopsilla fulva* (*Dendrodorididae*, *Nudibranchia*) collected from a tide pool at Pillar Point, California, USA (37° 29' 41.427" N, 122° 29' 57.994" W), discovered by synthase-selected single-cell genomics. Mucus-producing goblet cells of *Doriopsilla fulva* appear to be the primary reservoir of *Doriopsillibacter*. Genome sequence available at NCBI with BioProject ID: PRJNA864331.

Classification

Bacteria » *Pseudomonadota* » *Gammaproteobacteria* » *Tethybacterales* » *Persebacteraceae* » *Doriopsillibacter*

References

Effective publication: Džunková et al., 2023 [1]

Registry URL

<https://seqco.de/i:31269>

References

1. Džunková et al. (2023). Synthase-selected sorting approach identifies a beta-lactone synthase in a nudibranch symbiotic bacterium. *Microbiome*. DOI:10.1186/s40168-023-01560-8