Species *Pantoea symbiotica*

Etymology

[sym.bi.o'ti.ca] **N.L. fem. adj.** *symbiotica*, living together, symbiotic

Nomenclatural type

NCBI Assembly: GCF_900114175.1 [Ts]

Description

This species includes nine genomes that belong to P. symbiotica sp. nov. The clade corresponding to this group is a sister clade of the "P. endophytica" clade. Pairwise ANI between the eight genomes is over 97%, while ANI between them and "P. endophytica" genomes, which represent the most closely related known species, is approximately 93%, showing that these strains do in fact represent a separate species. The strains were isolated from poplar (*Populus deltoides*) roots along the Caney Fork River in Tennessee, USA; Eastern cottonwood poplar roots on the Yadkin River in North Carolina, USA (Brown et al. 2012); from fungi in New York State, USA (Wong et al. 2020); and as endophytes of grapevine. Based on these isolation sources, this species appears to be adapted to the rhizosphere. The nomenclatural type for the species is the genome of strain YR512[Ts], available under the GenBank assembly accession number GCF_900114175.1.

Classification

Bacteria » *Pseudomonadota* » *Gammaproteobacteria* » *Enterobacterales* » *Erwiniaceae* » *Pantoea* » *Pantoea symbiotica*

References

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

Registry URL

https://seqco.de/i:31363

References

1. Crosby et al. (2023). Genomic delineation and description of species and within-species lineages in the genus Pantoea. *Frontiers in Microbiology*. DOI:10.3389/fmicb.2023.1254999