

Species *Pantoea gossypiicola*

Etymology

[gos.sy.pi.i.co'la] N.L. neut. n. *Gossypium*, the scientific botanical genus name for cotton; L. fem. n. suff. *-cola*, inhabitant, dweller; N.L. fem. n. *gossypiicola*, inhabitant of *Gossypium*, referring to the isolation source of the strain for the designated nomenclatural type, from the leaves of cotton plants

Nomenclatural type

[NCBI Assembly: GCF_008632075.1](#)^{Ts}

Description

Based on the BioSample metadata available for genomes in this group, all strains of this species were recovered as epiphytes from diseased cotton leaves (*Gossypium hirsutum*), from the Punjab province of Pakistan. This species is supported as distinct and exclusive through phylogenomics and is supported by the GTDB. The minimum pairwise ANI of genomes within this species is 99.25% and the ANI to the most similar genomes outside of the species is approximately 94%. Three clonal lineages can be distinguished based on phylogeny and ANI. However, based on reverse ecology analysis using PopCOGenT, all strains of the species cluster belong to the same population suggesting that the clonal lineages have not adapted to separate ecological niches. The nomenclatural type for the species is the genome of strain B-8^{Ts}, available under the GenBank assembly accession number GCA_008632075.1.

Classification

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

References

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

Registry URL

<https://seqco.de/i:31355>

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](https://doi.org/10.3389/fmicb.2023.1254999)