

Register list for 3 new names including *Mangrovimarina plasticivorans* sp. nov.

Submitted by Jimenez, Diego

Genus *Mangrovimarina*

Etymology

[Man.gro.vi.ma.ri'na] N.L. neut. n. *mangrovum*, a mangrove; L. fem. adj. *marina*, marine; N.L. fem. n. *Mangrovimarina*, referring to an organism found in mangrove soils with seawater impact

Nomenclatural type

Species *Mangrovimarina plasticivorans*^{Ts}

Description

A genus established on the basis of MiGA taxonomic novelty analyses, AAI, dDDH, and phylogenomic analyses and is classified as a member of the *Rhizobiaceae* family. The type species of the genus is *Mangrovimarina plasticivorans*.

Classification

Bacteria » *Pseudomonadota* » *Alphaproteobacteria* » *Hyphomicrobiales* » *Rhizobiaceae* » *Mangrovimarina*

References

Effective publication: Jiménez et al., 2024 [1]

Registry URL

<https://seqco.de/i:44056>

Species *Mangrovimarina plasticivorans*^{Ts}

Etymology

[plas.ti.ci.vo'rans] N.L. neut. n. *plasticum*, plastic; L. pres. part. *vorans*, devouring, destroying; N.L. part. adj. *plasticivorans*, plastic-devouring referring to ability of organism to catabolize the plastic

Nomenclatural type

[NCBI Assembly: GCA_963966365.1](https://ncbi.nlm.nih.gov/assembly/GCA_963966365.1)^{Ts}

Description

A species established on the basis of MiGA taxonomic novelty analyses, ANI, AAI, phylogenomic tree, and the type material is the genome MAG11A_P8. The MAG was reconstructed from PET-transforming bacterial consortium and encoded for two putative monohydroxyethyl terephthalate hydrolases. In addition, genes involved in PET-monomers catabolism were found within the genome.

Classification

Bacteria » *Pseudomonadota* » *Alphaproteobacteria* » *Hyphomicrobiales* » *Rhizobiaceae* » *Mangrovimarina* » *Mangrovimarina plasticivorans*^{Ts}

References

Effective publication: Jiménez et al., 2024 [1]

Registry URL

<https://seqco.de/i:44055>

Species *Kaistia cartagenensis*

Etymology

[car.ta.ge.nen'sis] N.L. fem. adj. *cartagenensis*, pertaining to Cartagena de Indias, the city close to Baru Island, where the mangrove soil samples were collected

Nomenclatural type

[NCBI Assembly: GCA_963966455.1](#) ^{TS}

Description

A species established on the basis of MiGA taxonomic novelty analyses, ANI, AAI, 16S rRNA gene phylogenetic reconstruction, phylogenomic tree, and the type material is the genome MAG11_P8. The MAG was reconstructed from PET-transforming bacterial consortium and encoded for a putative PET hydrolase. In addition, genes involved in PET-monomers catabolism were found within the MAG.

Classification

Bacteria » *Pseudomonadota* » *Alphaproteobacteria* » *Hyphomicrobiales* » *Kaistiaceae* » *Kaistia* » *Kaistia cartagenensis*

References

Effective publication: Jiménez et al., 2024 [1]

Registry URL

<https://seqco.de/i:43934>

References

1. Jiménez et al. (2024). Engineering the mangrove soil microbiome for selection of polyethylene terephthalate-transforming bacterial consortia. *Trends in Biotechnology*. [DOI:10.1016/j.tibtech.2024.08.013](https://doi.org/10.1016/j.tibtech.2024.08.013)

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:ayug-nu6 submitted by **Jimenez, Diego** and including 3 new names has been successfully validated.

Date of Priority: 2024-09-30 02:00 UTC
DOI: 10.57973/seqcode.r:ayug-nu6

