

Register list for *Pollutiaquabacter aromativorans* gen. nov. sp. nov. and their lineage

Submitted by Ravin, Nikolai

Order *Pollutaquibacterales*

Etymology

[Po.l.lu.ta.qui.bac.te.ra'les] **N.L. masc. n.** *Pollutaquibacter*, referring to the type genus *Pollutaquibacter*; *-ales*, ending to denote an order; **N.L. fem. pl. n.** *Pollutaquibacterales*, the *Pollutaquibacter* order

Nomenclatural type

Genus *Pollutaquibacter*

Description

Pollutaquibacterales was proposed as an order to accomodate the genus *Pollutaquibacter*

Classification

Bacteria » *Bacteroidota* » *Bacteroidia* » *Pollutaquibacterales*

References

Effective publication: Begmatov et al., 2025 [1]

Assigned taxonomically: Begmatov et al., 2025 [1]

Registry URL

<https://seqco.de/i:56406>

Family *Pollutaquibacteraceae*

Etymology

[Po.l.lu.ta.qui.bac.te.ra'ce.ae] **N.L. masc. n.** *Pollutaquibacter*, referring to the type genus *Pollutaquibacter*; *-aceae*, ending to denote a family; **N.L. fem. pl. n.** *Pollutaquibacteraceae*, the *Pollutaquibacter* family

Nomenclatural type

Genus *Pollutaquibacter*

Description

Pollutaquibacteraceae fam. nov. was proposed to accomodate the genus *Pollutaquibacter*

Classification

Bacteria » *Bacteroidota* » *Bacteroidia* » *Pollutaquibacterales* » *Pollutaquibacteraceae*

References

Effective publication: Begmatov et al., 2025 [1]

Assigned taxonomically: Begmatov et al., 2025 [1]

Registry URL

<https://seqco.de/i:56400>

Genus *Pollutaquibacter*

Etymology

[Po.llu.ta.qui.bac'ter] **L. masc. perf. part.** *pollutus*, polluted; **L. fem. n.** *aqua*, water; **N.L. masc. n.** *bacter*, rod; **N.L. masc. n.** *Pollutaquibacter*, a rod microbe from a polluted aquatic environment

Nomenclatural type

Species *Pollutaquibacter aromativorans*^{Ts}

Description

Not cultivated. Inferred to be a rod-shaped, non-motile, facultatively anaerobic organotroph that obtains energy by fermentation, aerobic respiration, or denitrification, and is capable of using aromatic compounds, fatty acids, and some sugars as growth substrates.

Represented by the complete genome NLOS2-E-001 (GenBank acc. no. CP185379) obtained from the metagenome of wastewater in Moscow, Russia.

Classification

Bacteria » *Bacteroidota* » *Bacteroidia* » *Pollutaquibacterales* » *Pollutaquibacteraceae* » *Pollutaquibacter*

References

Effective publication: Begmatov et al., 2025 [1]

Assigned taxonomically: Begmatov et al., 2025 [1]

Registry URL

<https://seqco.de/i:56399>

Species *Pollutaquibacter aromativorans*^{Ts}

Etymology

[a.ro.ma.ti.vo'rans] **L. neut. n.** *aroma*, spice; **L. masc. pres. part.** *vorans*, devouring; **N.L. masc. part. adj.** *aromativorans*, spice-devouring, here referring to degradation of aromatic compounds

Nomenclatural type

[NCBI Assembly: GCA_049177215.1](#)^{Ts}

Description

Not cultivated. Inferred to be a rod-shaped, non-motile, facultatively anaerobic organotroph that obtains energy by fermentation, aerobic respiration, or denitrification, and is capable of using aromatic compounds, fatty acids, and some sugars as growth substrates.

Represented by the complete genome NLOS2-E-001 (GenBank acc. no. CP185379) obtained from the metagenome of wastewater in Moscow, Russia.

Classification

Bacteria » *Bacteroidota* » *Bacteroidia* » *Pollutaquibacterales* » *Pollutaquibacteraceae* » *Pollutaquibacter* » *Pollutaquibacter aromativorans*^{Ts}

References

Effective publication: Begmatov et al., 2025 [1]

Assigned taxonomically: Begmatov et al., 2025 [1]

Registry URL

<https://seqco.de/i:56398>

References

1. Begmatov et al. (2025). Genomic Analysis of the Uncultured AKYH767 Lineage from a Wastewater Treatment Plant Predicts a Facultatively Anaerobic Heterotrophic Lifestyle and the Ability to Degrade Aromatic Compounds. *Water*. [DOI:10.3390/w17071061](https://doi.org/10.3390/w17071061)

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:bkaq9dw9** submitted by **Ravin, Nikolai** and including 4 new names has been successfully validated.

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