

Register list for 7 new names including *Phosphoribacter hoenirii* sp. nov.

Submitted by Nielsen, Per H.

Species *Azonexus amarohabitans*

Etymology

[a.ma.ro.ha'bi.tans] **G. fem. n.** *amara*, trench, conduit, channel, here, a sewage conduit; ; **L. part. adj.** *habitans*, inhabitant; **N.L. masc. adj.** *amarohabitans*, pertaining to the habitat where the MAG was sequenced from

Nomenclatural type

[NCBI Assembly: GCA_016709965.1](#) ^{Ts}

Description

The MAG representative for this species was isolated from activated sludge, wastewater treatment plant located in Esbjerg West, Denmark

Classification

Bacteria » *Pseudomonadota* » *Betaproteobacteria* » *Rhodocyclales* » *Azonexaceae* » *Azonexus* » *Azonexus amarohabitans*

References

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

Registry URL

<https://seqco.de/i:49013>

Species *Azonexus defluvii*

Etymology

[de.flu'vi.i] **L. masc. gen. n.** *defluvii*, of wastewater

Nomenclatural type

[NCBI Assembly: GCA_016709495.1](#) ^{Ts}

Description

The MAG representative for this species was isolated from activated sludge, wastewater treatment plant located in Esbjerg West, Denmark

Classification

Bacteria » *Pseudomonadota* » *Betaproteobacteria* » *Rhodocyclales* » *Azonexaceae* » *Azonexus* » *Azonexus defluvii*

References

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

Registry URL

<https://seqco.de/i:49012>

Species *Azonexus phosphoriphilus*

Etymology

[phos.pho.ri.phi'lus] **N.L. masc. n.** *phosphorus*, phosphorus; **G. masc. n.** *philos*, lover; **N.L. masc. adj.** *phosphoriphilus*, indicating the ability to uptake phosphorus

Nomenclatural type

[NCBI Assembly: GCA_016714975.1](#) ^{Ts}

Description

The MAG representative for this species was isolated from activated sludge, wastewater treatment plant located in Odense, Denmark. Based on metabolic annotations, this species are close related to the other two species from *Azonexus* genera with the ability to accumulate polyphosphate.

Classification

Bacteria » *Pseudomonadota* » *Betaproteobacteria* » *Rhodocyclales* » *Azonexaceae* » *Azonexus* » *Azonexus phosphoriphilus*

References

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

Registry URL

<https://seqco.de/i:49011>

Species *Phosphoribacter freyrii*

Etymology

[fre'y.ri.i] **N.L. gen. n.** *freyrii*, freyrii of Freyr, Norse god of fertility

Nomenclatural type

[NCBI Assembly: GCA_016710385.1](#) ^{Ts}

Description

The MAG representative for this species was isolated from activated sludge, wastewater treatment plant located in Hjørring, Denmark

Classification

Bacteria » *Actinomycetota* » *Actinomycetes* » *Micrococcales* » *Dermatophilaceae* » *Phosphoribacter* » *Phosphoribacter freyrii*

References

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

Assigned taxonomically: Singleton et al., 2022 [2]

Registry URL

<https://seqco.de/i:49009>

Species *Phosphoribacter hoenirii*

Etymology

[ho'e.ni.ri'i] **N.L. gen. n.** *hoenirii*, hoenirii of Hoenir, Norse god of silence

Nomenclatural type

[NCBI Assembly: GCA_963851545.1](#) ^{Ts}

Description

The MAG representative for this species was isolated from activated sludge, wastewater treatment plant located in Aalborg West, Denmark. Based on metabolic annotation, the species show similar metabolic potential to its close relatives *Phosphoribacter baldrii* and *hodrii*

Classification

Bacteria » *Actinomycetota* » *Actinomycetes* » *Micrococcales* » *Dermatophilaceae* » *Phosphoribacter* » *Phosphoribacter hoenirii*

References

Effective publication: Kondrotaite et al., 2025 [1]
Assigned taxonomically: Singleton et al., 2022 [2]

Registry URL

<https://seqco.de/i:49010>

Species *Phosphoribacter thorii*

Etymology

[tho.ri'i] **N.L. gen. n.** *thorii*, of Thor, Norse god of thunder

Nomenclatural type

[NCBI Assembly: GCA_016715285.1](#) ^{Ts}

Description

The MAG representative for this species was isolated from activated sludge, wastewater treatment plant located in Mariagerfjord, Denmark

Classification

Bacteria » *Actinomycetota* » *Actinomycetes* » *Micrococcales* » *Dermatophilaceae* » *Phosphoribacter* » *Phosphoribacter thorii*

References

Effective publication: Kondrotaite et al., 2025 [1]
Assigned taxonomically: Singleton et al., 2022 [2]

Registry URL

<https://seqco.de/i:49008>

Species *Phosphoribacter tyrii*

Etymology

[ty'ri.i] **N.L. gen. n.** *tyrii*, from Tyr, Norse of god of war and justice

Nomenclatural type

[NCBI Assembly: GCA_016711095.1](#) ^{Ts}

Description

The MAG representative for this species was isolated from activated sludge, wastewater treatment plant located in Hirtshals, Denmark

Classification

Bacteria » *Actinomycetota* » *Actinomycetes* » *Micrococcales* » *Dermatophilaceae* » *Phosphoribacter* » *Phosphoribacter tyrii*

References

Effective publication: Kondrotaite et al., 2025 [1]
Assigned taxonomically: Singleton et al., 2022 [2]

Registry URL

<https://seqco.de/i:49003>

References

1. Kondrotaite et al. (2025). Ecophysiology and niche differentiation of three genera of polyphosphate-accumulating bacteria in a full-scale wastewater treatment plant. *mSystems*. [DOI:10.1128/msystems.00322-25](https://doi.org/10.1128/msystems.00322-25)
2. Singleton et al. (2022). The novel genus, '*Candidatus Phosphoribacter*', previously identified as *Tetrasphaera*, is the dominant polyphosphate accumulating lineage in EBPR wastewater treatment plants worldwide. *The ISME Journal*. [DOI:10.1038/s41396-022-01212-z](https://doi.org/10.1038/s41396-022-01212-z)

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:yj2wcqod** submitted by **Nielsen, Per H.** and including 7 new names has been successfully validated.

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