

Register list for *Songiamicus weybensis* gen. nov. sp. nov. and their lineage

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Abstract

We propose the name for the phylum *Songiamicota* phyl. nov. (former UBA8248). The type genus from which the name was derived, the type species and for associated higher ranks, i.e. *Songiamicaceae* fam. nov., *Songiamicales* order nov. and *Songiamicia* class. nov., are also included in this register list.

Phylum *Songiamicota*

Etymology

[Spon.gi.a.mi.co'ta] **N.L. masc. n.** *Songiamicus*, referring to the type genus *Songiamicus*; -ota, ending to denote a phylum; **N.L. neut. pl. n.** *Songiamicota*, the *Songiamicus* phylum

Nomenclatural type

Genus *Songiamicus*

Description

The highest relative abundances of this phylum were observed in sponge metagenomes from the marine sponge *Aplysina aerophoba* from the Gulf of Piran, Slovenia, and Sperm DNA of *Galaxea fascicularis* from an undisclosed coral reef sample. The phylum has a global distribution and was mainly present in public shotgun metagenome datasets labelled as marine metagenomes, marine sediment metagenomes, seawater metagenome, and sponge metagenome.

Classification

Bacteria » *Songiamicota*

References

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

Registry URL

<https://seqco.de/i:49701>

Class *Songiamicia*

Etymology

[Spon.gi.a.mi'ci.a] **N.L. masc. n.** *Songiamicus*, referring to the type genus *Songiamicus*; -ia, ending to denote a class; **N.L. neut. pl. n.** *Songiamicia*, the *Songiamicus* class

Nomenclatural type

Genus *Songiamicus*

Description

The description is the same as for the nomenclatural type *Songiamicus weybensis*.

Classification

Bacteria » *Songiamicota* » *Songiamicia*

References

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

Registry URL

<https://seqco.de/i:49703>

Order *Spongiamicales*

Etymology

[Spon.gi.a.mi.ca'les] **N.L. masc. n.** *Spongiamicus*, referring to the type genus *Spongiamicus*; -ales, ending to denote an order; **N.L. fem. pl. n.** *Spongiamicales*, the *Spongiamicus* order

Nomenclatural type

Genus *Spongiamicus*

Description

The description is the same as for the nomenclatural type *Spongiamicus weybensis*.

Classification

Bacteria » *Spongiamicota* » *Spongiamicia* » *Spongiamicales*

References

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

Registry URL

<https://seqco.de/i:49704>

Family *Spongiamicaceae*

Etymology

[Spon.gi.a.mi.ca'ce.ae] **N.L. masc. n.** *Spongiamicus*, referring to the type genus *Spongiamicus*; -aceae, ending to denote a family; **N.L. fem. pl. n.** *Spongiamicaceae*, the *Spongiamicus* family

Nomenclatural type

Genus *Spongiamicus*

Description

The description is the same as for the nomenclatural type *Spongiamicus weybensis*.

Classification

Bacteria » *Spongiamicota* » *Spongiamicia* » *Spongiamicales* » *Spongiamicaceae*

References

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

Registry URL

<https://seqco.de/i:49705>

Genus *Spongiamicus*

Etymology

[Spon.gi.a'mi.cus] **L. fem. n.** *spongia*, sponge, the colloquial term for the eukaryotic lineage *Porifera*; **L. masc. n.** *amicus*, friend; **N.L. masc. n.** *Spongiamicus*, a friend of sponges

Nomenclatural type

Species *Spongiamicus weybensis*^{Ts}

Description

The description is the same as for the nomenclatural type *Spongiamicus weybensis*.

Classification

Bacteria » *Spongiamicota* » *Spongiamicia* » *Spongiamicales* » *Spongiamicaceae* » *Spongiamicus*

References

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

Registry URL

<https://seqco.de/i:49706>

Species *Songiamicus weybensis*^{TS}

Etymology

[we.y.ben'sis] **N.L. masc. adj.** *weybensis*, of or pertaining to Lake Weyba, a saltwater lake in Queensland, Australia

Nomenclatural type

[Genome sc|0006326](#) ^{TS}

Description

S. weybensis is inferred as organoheterotrophs but could potentially fix CO₂ via the Wood-LjungdahlWL pathway. It also encodes genes for nitrogen fixation.

Classification

Bacteria » *Songiamicota* » *Songiamicia* » *Songiamicales* » *Songiamicaceae* » *Songiamicus* » *Songiamicus weybensis*^{TS}

References

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

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

Registry URL

<https://seqco.de/i:49702>

References

1. Sun et al. (2025). Metagenomic insights into taxonomic and functional patterns in shallow coastal and deep seafloor sediments in the Western Pacific. *Microbial Genomics*. DOI: [10.1099/mgen.0.001351](https://doi.org/10.1099/mgen.0.001351)

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:0w5t6dud** submitted by **Rinke, Chris** and including 6 new names has been successfully validated.

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