Register list for Spongiamicus weybensis gen. nov. sp. nov. and their lineage

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Abstract

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

Phylum *Spongiamicota*

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

Nomenclatural type
Genus *Spongiamicus*

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 Ssperm 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 » *Spongiamicota*

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

Registry URL
https://seqco.de/i:49701

Class *Spongiamicia*

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

Nomenclatural type
Genus *Spongiamicus*

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

Classification
Bacteria » *Spongiamicota* » *Spongiamicia*

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 *Spongiamicus 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 » *Spongiamicota* » *Spongiamicia* » *Spongiamicales* » *Spongiamicaceae* » *Spongiamicus* » *Spongiamicus 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 subseafloor sediments in the Western Pacific. *Microbial Genomics*. DOI: 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.

Date of Priority: 2026-09-23 09:58 UTC
DOI: 10.57973/seqcode.r:0w5t6dud