

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

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Table 1: Complete list of names proposed in the current register list.

Proposed Taxon	Etymology	Description	Parent Taxon	Type	Registry URL
Phylum <i>Songiamicota</i>	[Spon.gi.a.mi.co'ta] N.L. masc. n. <i>Songiamicus</i> , referring to the type genus <i>Songiamicus</i> ; -ota, ending to denote a phylum; N.L. neut. pl. n. <i>Songiamicota</i> , the <i>Songiamicus</i> phylum	The highest relative abundances of this phylum were observed in sponge metagenomes from the marine sponge <i>Aplysina aerophoba</i> from the Gulf of Piran, Slovenia, and Sperm DNA of <i>Galaxea fascicularis</i> 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.	<i>Bacteria</i>	<i>Songiamicus</i>	seqco.de/i:49701
Class <i>Songiamicia</i>	[Spon.gi.a.mi'ci.a] N.L. masc. n. <i>Songiamicus</i> , referring to the type genus <i>Songiamicus</i> ; -ia, ending to denote a class; N.L. neut. pl. n. <i>Songiamicia</i> , the <i>Songiamicus</i> class	The description is the same as for the nomenclatural type <i>Songiamicus weybensis</i> .	<i>Songiamicota</i>	<i>Songiamicus</i>	seqco.de/i:49703
Order <i>Songiamicales</i>	[Spon.gi.a.mi.ca'les] N.L. masc. n. <i>Songiamicus</i> , referring to the type genus <i>Songiamicus</i> ; -ales, ending to denote an order; N.L. fem. pl. n. <i>Songiamicales</i> , the <i>Songiamicus</i> order	The description is the same as for the nomenclatural type <i>Songiamicus weybensis</i> .	<i>Songiamicia</i>	<i>Songiamicus</i>	seqco.de/i:49704
Family	[Spon.gi.a.mi.ca'ce.ae] N.L. masc. n. <i>Songiamicus</i> , referring to the type genus <i>Songiamicus</i> ; -aceae,	The description is the same as for the nomenclatural type <i>Songiamicus</i>	<i>Songiamicales</i>	<i>Songiamicus</i>	seqco.de/i:49705

<i>Spongiamicaceae</i> Proposed Taxon	ending to denote a family; N.L. fem. n. Etymology <i>Spongiamicaceae</i> , the	<i>weybensis</i> . Description	Parent Taxon	Type	Registry URL
	<i>Spongiamicus</i> family				
Genus <i>Spongiamicus</i>	[Spon.gi.a'mi.cus] L. fem. n. <i>spongia</i> , sponge, the colloquial term for the eukaryotic lineage <i>Porifera</i> ; L. masc. n. <i>amicus</i> , friend; N.L. masc. n. <i>Spongiamicus</i> , a friend of sponges	The description is the same as for the nomenclatural type <i>Spongiamicus weybensis</i> .	<i>Spongiamicaceae</i>	<i>Spongiamicus weybensis</i> ^{Ts}	seqco.de/i:49706
Species <i>Spongiamicus weybensis</i> ^{Ts}	[we.y.ben'sis] N.L. masc. adj. <i>weybensis</i> , of or pertaining to Lake Weyba, a saltwater lake in Queensland, Australia	<i>S. weybensis</i> is inferred as organoheterotrophs but could potentially fix CO ₂ via the Wood-Ljungdahl pathway. It also encodes genes for nitrogen fixation.	<i>Spongiamicus</i>	NCBI Assembly: GCA_988280555.1 ^{Ts}	seqco.de/i:49702