

Register list for *Sumerlaea chitinivorans* sp. nov., and its lineage in the phylum Sumerlaeota

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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>Sumerlaeota</i>	[Su.mer.lae.o'ta] N.L. fem. n. <i>Sumerlaea</i> , referring to the type genus <i>Sumerlaea</i> ; -ota, ending to denote a phylum; N.L. neut. pl. n. <i>Sumerlaeota</i> , the <i>Sumerlaea</i> phylum	The phylum <i>Sumerlaeota</i> is defined on a phylogenetic basis by comparative 16S rRNA and genome sequence analysis of <i>Sumerlaea chitinivorans</i> BY40, Candidate division BRC1 bacterium HGW-BRC1-1, BRC1 bacterium SCGC AAA252-M09, BRC1 bacterium SCGC AAA257-C1, candidate division BRC1 bacterium SM23 51, and multiple uncultured representatives, inclusive of the formerly identified candidate division BRC1.	<i>Bacteria</i>	<i>Sumerlaea</i>	seqco.de/i:42441
Class <i>Sumerlaeia</i>	[Su.mer.lae'i.a] N.L. fem. n. <i>Sumerlaea</i> , referring to the type genus <i>Sumerlaea</i> ; -ia, ending to denote a class; N.L. neut. pl. n. <i>Sumerlaeia</i> , the <i>Sumerlaea</i> class	The description is the same as that for the family <i>Sumerlaeaceae</i> .	<i>Sumerlaeota</i>	<i>Sumerlaea</i>	seqco.de/i:42442
Order <i>Sumerlaeales</i>	[Su.mer.lae.a'les] N.L. fem. n. <i>Sumerlaea</i> , referring to the type genus <i>Sumerlaea</i> ; -ales, ending to denote an order; N.L. fem. pl. n. <i>Sumerlaeales</i> , the <i>Sumerlaea</i> order	The description is the same as that for the family <i>Sumerlaeaceae</i> . The type genus is <i>Sumerlaea</i> .	<i>Sumerlaeia</i>	<i>Sumerlaea</i>	seqco.de/i:42443
Family <i>Sumerlaeaceae</i>	[Su.mer.lae.a'ce.ae] N.L. fem. n. <i>Sumerlaea</i> , referring to the type genus <i>Sumerlaea</i> ; -aceae, ending to denote a family; N.L. fem. pl. n. <i>Sumerlaeaceae</i> , the <i>Sumerlaea</i> family	The family <i>Sumerlaeaceae</i> is defined on a phylogenetic basis by comparative 16S rRNA sequence analysis of <i>Sumerlaea chitinivorans</i> BY40 and uncultured representatives detected in various environments. The type genus is <i>Sumerlaea</i> .	<i>Sumerlaeales</i>	<i>Sumerlaea</i>	seqco.de/i:42444

Proposed Taxon	Etymology	Description	Parent Taxon	Type	Registry URL
Genus <i>Sumerlaea</i>	[Su.mer.lae a] N.L. fem. n. <i>Sumerlaea</i> , genus named for Sumerla, the underground goddess in Slavic mythology	Not cultivated. Inferred to be facultatively anaerobic, obligate organotroph, obtains energy by fermentation, aerobic or anaerobic respiration, and able to use starch and chitin as a growth substrates. Represented by complete genome (acc. no. CP030759) obtained from metagenome of a deep subsurface thermal aquifer in Western Siberia, Russia.	<i>Sumerlaeaceae</i>	<i>Sumerlaea chitinivorans</i> ^{Ts}	seqco.de/i:39036
Species <i>Sumerlaea chitinivorans</i> ^{Ts}	[chi.ti.ni.vo'rans] N.L. neut. n. <i>chitinum</i> , chitin; L. fem. pres. part. <i>vorans</i> , devouring; N.L. fem. part. adj. <i>chitinivorans</i> , chitin devouring	Not cultivated. Inferred to be facultatively anaerobic, obligate organotroph, obtains energy by fermentation, aerobic or anaerobic respiration, and able to use starch and chitin as a growth substrates. Represented by complete genome (acc. no. CP030759) obtained from metagenome of a deep subsurface thermal aquifer in Western Siberia, Russia	<i>Sumerlaea</i>	INSDC Nucleotide: CP030759 ^{Ts}	seqco.de/i:42445