

Register list for 7 new names including Methanomethylicus gen. nov.

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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>Methanomethylicota</i>	[Me.tha.no.me.thy.li.co'ta] N.L. masc. n. <i>Methanomethylicus</i> , referring to the type genus <i>Methanomethylicus</i> ; -ota, ending to denote a phylum; N.L. neut. pl. n. <i>Methanomethylicota</i> , the <i>Methanomethylicus</i> phylum		Archaea	<i>Methanomethylicus</i>	seqco.de/i:23980
Class <i>Methanomethylicia</i>	[Me.tha.no.me.thy.li'ci.a] N.L. masc. n. <i>Methanomethylicus</i> , referring to the type genus <i>Methanomethylicus</i> ; -ia, ending to denote a class; N.L. neut. pl. n. <i>Methanomethylicia</i> , the <i>Methanomethylicus</i> class	Vanwonterghem et al. (2016) : The description is the same as for the genus <i>Methanomethylicus</i> . Suff. -ia, ending to denote a class. Type order: <i>Methanomethyliciales</i> , ord. nov.	<i>Methanomethylicota</i>	<i>Methanomethylicus</i>	seqco.de/i:23972
Order <i>Methanomethylicales</i>	[Me.tha.no.me.thy.li.ca'les] N.L. masc. n. <i>Methanomethylicus</i> , referring to the type genus <i>Methanomethylicus</i> ; -ales, ending to denote an order; N.L. fem. pl. n. <i>Methanomethylicales</i> , the <i>Methanomethylicus</i> order	The description is the same as for the genus <i>Methanomethylicus</i> .	<i>Methanomethylicia</i>	<i>Methanomethylicus</i>	seqco.de/i:23979
Family <i>Methanomethylicaceae</i>	[Me.tha.no.me.thy.li.ca'ce.ae] N.L. masc. n. <i>Methanomethylicus</i> , referring to the type genus <i>Methanomethylicus</i> ; -aceae, ending to denote a family; N.L. fem. pl. n. <i>Methanomethylicaceae</i> , the <i>Methanomethylicus</i> family	The description is the same as for the genus <i>Methanomethylicus</i> . Type genus: <i>Methanomethylicus</i> , gen. nov.	<i>Methanomethylicales</i>	<i>Methanomethylicus</i>	seqco.de/i:23978
	[Me.tha.no.me.thy'li.cus] N.L. pref. <i>methano</i> -, pertaining to methane; N.L. masc. adj.				

Genus Proposed Taxon <i>Methanomethylicus</i>	Etyymology <i>methylicus</i> , pertaining to the methyl group; N.L. masc. n.	Description	Parent Taxon <i>Methanohalobiales</i>	Type <i>Methanomethylicus mesodigestus</i> ^{Ts}	Registry URL seqco.de/i:23973
	<i>Methanomethylicus</i> , methane producing organism growing on methyl groups				
Species <i>Methanomethylicus mesodigestus</i> ^{Ts}	[me.so.di.ges'tus] Gr. masc. adj. <i>mesos</i> , middle; L. masc. perf. part. <i>digestus</i> , that has a good digestion; N.L. masc. adj. <i>mesodigestus</i> , referring to a mesophilic digester	This organism is inferred to be capable of methylotrophic methanogenesis, is non-motile, and not cultivated, represented by near-complete population genomes V1 (type strain) and V2 obtained from anaerobic digesters.	<i>Methanomethylicus</i>	NCBI Assembly: GCA_001717005.1 ^{Ts}	seqco.de/i:23974
Species <i>Methanomethylicus oleisabuli</i>	[o.le.i.sa'bu.li] L. neut. n. <i>oleum</i> , oil; L. neut. n. <i>sabulum</i> , sand; N.L. gen. n. <i>oleisabuli</i> , of oil sand	This organism is inferred to be capable of methylotrophic methanogenesis, is non-motile, and not cultivated, represented by a near-complete population genome V3 obtained from an iso-alkane degrading enrichment culture from tailings ponds.	<i>Methanomethylicus</i>	NCBI Assembly: GCA_001717025.1 ^{Ts}	seqco.de/i:23975