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

Proposed Taxon	Etymology	Description	Parent Taxon	Type	Registry URL
Genus *Methanomethylicus*	*methylicus*, pertaining to the methyl group; **N.L. masc. n.** *Methanomethylicus*, methane producing organism growing on methyl groups		*Methanomethylicaceae*	*Methanomethylicus mesodigestus*[Ts]	seqco.de/i:23973
Species *Methanomethylicus mesodigestus*[Ts]	[me.so.di.ges'tus] **Gr. masc. adj.** *mesos*, middle; **L. masc. perf. part.** *digestus*, that has a good digestion; **N.L. masc. adj.** *mesodigestus*, 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.	*Methanomethylicus*	NCBI Assembly: GCA_001717005.1 [Ts]	seqco.de/i:23974
Species *Methanomethylicus oleisabuli*	[o.le.i.sa'bu.li] **L. neut. n.** *oleum*, oil; **L. neut. n.** *sabulum*, sand; **N.L. gen. n.** *oleisabuli*, 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.	*Methanomethylicus*	NCBI Assembly: GCA_001717025.1 [Ts]	seqco.de/i:23975