Lutivulcanarchaeaceae fam. 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
Family *Lutivulcanarchaeaceae*	[Lu.ti.vul.ca.nar.chae.a'ce.ae] **N.L. neut. n.** *Lutivulcanarchaeum*, referring to the type genus *Lutivulcanarchaeum*; *-aceae*, ending to denote a family; **N.L. fem. pl. n.** *Lutivulcanarchaeaceae*, the *Lutivulcanarchaeum* family	The family for *Lutivulcanarchaeum fermentans*	*Terrarchaeales*	*Lutivulcanarchaeum*	seqco.de/i:56542
Genus *Lutivulcanarchaeum*	[Lu.ti.vul.ca.nar.chae'um] **L. neut. n.** *lutum*, mud; **L. masc. n.** *Vulcanus*, the Roman god of fire, used here to denote an origin from mud volcano; **N.L. neut. n.** *archaeum*, an archaeon; **N.L. neut. n.** *Lutivulcanarchaeum*, an archaeon from a mud volcano	The genus for *Lutivulcanarchaeum fermentans*	*Lutivulcanarchaeaceae*	*Lutivulcanarchaeum fermentans*[Ts]	seqco.de/i:56543
Species *Lutivulcanarchaeum fermentans*[Ts]	[fer.men'tans] **L. neut. part. adj.** *fermentans*, fermenting, referring to the source of genome from anaerobic digestion of organic wastes	Not cultivated. Inferred to be an anaerobic, obligate organotroph that obtains energy through fermentation of low-molecular-weight organic substrates. Represented by the genome (JCBCDW010000000) assembled from the metagenome of a terrestrial mud volcano fluid.	*Lutivulcanarchaeum*	NCBI Assembly: GCA_059870165.1 [Ts]	seqco.de/i:56541