

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 <i>Lutivulcanarchaeaceae</i>	[Lu.ti.vul.ca.nar.chae.a'ce.ae] N.L. neut. n. <i>Lutivulcanarchaeum</i> , referring to the type genus <i>Lutivulcanarchaeum</i> ; -aceae, ending to denote a family; N.L. fem. pl. n. <i>Lutivulcanarchaeaceae</i> , the <i>Lutivulcanarchaeum</i> family	The family for <i>Lutivulcanarchaeum fermentans</i>	<i>Terrarchaeales</i>	<i>Lutivulcanarchaeum</i>	seqco.de/i:56542
Genus <i>Lutivulcanarchaeum</i>	[Lu.ti.vul.ca.nar.chae'um] L. neut. n. <i>lutum</i> , mud; L. masc. n. <i>Vulcanus</i> , the Roman god of fire, used here to denote an origin from mud volcano; N.L. neut. n. <i>archaeum</i> , an archaeon; N.L. neut. n. <i>Lutivulcanarchaeum</i> , an archaeon from a mud volcano	The genus for <i>Lutivulcanarchaeum fermentans</i>	<i>Lutivulcanarchaeaceae</i>	<i>Lutivulcanarchaeum fermentans</i> ^{Ts}	seqco.de/i:56543
Species <i>Lutivulcanarchaeum fermentans</i> ^{Ts}	[fer.men'tans] L. neut. part. adj. <i>fermentans</i> , 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 (JCB CDW010000000) assembled from the metagenome of a terrestrial mud volcano fluid.	<i>Lutivulcanarchaeum</i>	NCBI Assembly: GCA_059870165.1 ^{Ts}	seqco.de/i:56541