

# Register list for 4 new names including Pelearchaeum 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
Family <i>Calditenuaceae</i>	[Cal.di.te.nu.a.ce'ae] L. <b>masc. n.</b> <i>Calditenuis</i> , type genus of the family; - <i>aceae</i> , ending to denote the family; N.L. <b>fem. pl. n.</b> <i>Calditenuaceae</i> , the Calditenuis family		<i>Caldarchaeales</i>	<i>Calditenuis</i>	<a href="https://seqco.de/i:32224">seqco.de/i:32224</a>
Genus <i>Pelearchaeum</i>	[Pe.le.ar.chae'um] N.L. <b>fem. n.</b> <i>Pele</i> , Name of the goddess of volcanoes and fire in Hawaiian mythology; N.L. <b>neut. n.</b> <i>archaeum</i> , An archaeon; N.L. <b>neut. n.</b> <i>Pelearchaeum</i> , An archaeon named after Pele, the goddess of volcanoes and fire		<i>Calditenuaceae</i>	<i>Pelearchaeum maunauluense</i> <sup>Ts</sup>	<a href="https://seqco.de/i:31329">seqco.de/i:31329</a>
Genus <i>Calditenuis</i>	[Cal.di.te'nu.is] L. <b>masc. adj.</b> <i>caldus</i> , warm; L. <b>masc. / fem. adj.</b> <i>tenuis</i> , thin, slender; N.L. <b>masc. n.</b> <i>Calditenuis</i> , a warm and slender organism		<i>Calditenuaceae</i>	<i>Calditenuis fumarioli</i> <sup>Ts</sup>	<a href="https://seqco.de/i:32069">seqco.de/i:32069</a>
Species <i>Pelearchaeum maunauluense</i> <sup>Ts</sup>	[ma.u.na.u.lu.en'se] N.L. <b>neut. adj.</b> <i>maunauluense</i> , of Mauna Ulu volcano in Hawaii	This species is the type for the genus <i>Pelearchaeum</i> . The metagenome-assembled genome size of this species is 1.79 Mbp, contains 21 contigs, with GC% of 50.42. The size of the largest contig is 371 Kbp. The estimated genome size is 1.87 Mbp. The assembly originated from a sample collected from active fumaroles around Mauna Ulu volcano of Hawaii.	<i>Pelearchaeum</i>	NCBI Assembly: GCA_030059675.1 <sup>Ts</sup>	<a href="https://seqco.de/i:31328">seqco.de/i:31328</a>
Species <i>Calditenuis fumarioli</i> <sup>Ts</sup>	[fu.ma.ri.o'li] N.L. <b>gen. n.</b> <i>fumarioli</i> , of a fumarole, referring to the source of the nomenclatural type		<i>Calditenuis</i>	NCBI Assembly: GCA_030059665.1 <sup>Ts</sup>	<a href="https://seqco.de/i:31385">seqco.de/i:31385</a>