

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. masc. n. <i>Calditenuis</i> , type genus of the family; - <i>aceae</i> , ending to denote the family; N.L. fem. pl. n. <i>Calditenuaceae</i> , the Calditenuis family | | <i>Caldarchaeales</i> | <i>Calditenuis</i> | seqco.de/i:32224 |
| Genus <i>Pelearchaeum</i> | [Pe.le.ar.chae'um] N.L. fem. n. <i>Pele</i> , Name of the goddess of volcanoes and fire in Hawaiian mythology; N.L. neut. n. <i>archaeum</i> , An archaeon; N.L. neut. n. <i>Pelearchaeum</i> , An archaeon named after Pele, the goddess of volcanoes and fire | | <i>Calditenuaceae</i> | <i>Pelearchaeum maunauluense</i> ^{Ts} | seqco.de/i:31329 |
| Genus <i>Calditenuis</i> | [Cal.di.te'nu.is] L. masc. adj. <i>caldus</i> , warm; L. masc. / fem. adj. <i>tenuis</i> , thin, slender; N.L. masc. n. <i>Calditenuis</i> , a warm and slender organism | | <i>Calditenuaceae</i> | <i>Calditenuis fumarioli</i> ^{Ts} | seqco.de/i:32069 |
| Species <i>Pelearchaeum maunauluense</i> ^{Ts} | [ma.u.na.u.lu.en'se] N.L. neut. adj. <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 ^{Ts} | seqco.de/i:31328 |
| Species <i>Calditenuis fumarioli</i> ^{Ts} | [fu.ma.ri.o'li] N.L. gen. n. <i>fumarioli</i> , of a fumarole, referring to the source of the nomenclatural type | | <i>Calditenuis</i> | NCBI Assembly: GCA_030059665.1 ^{Ts} | seqco.de/i:31385 |