

# Register list for 4 new names including *Pelearchaeum* gen. nov.

Submitted by Saw, Jimmy

## Family *Calditenuaceae*

---

### Etymology

[Cal.di.te.nu.a.ce'ae] L. masc. n. *Calditenuis*, type genus of the family; *-aceae*, ending to denote the family; N.L. fem. pl. n. *Calditenuaceae*, the *Calditenuis* family

### Nomenclatural type

Genus *Calditenuis*

### Classification

*Incertae sedis* (Archaea) » "Caldarchaeales" » *Calditenuaceae*

### References

Effective publication: Balbay et al., 2023 [1]

### Registry URL

<https://seqco.de/i:32224>

## Genus *Pelearchaeum*

---

### Etymology

[Pe.le.ar.chae'um] N.L. fem. n. *Pele*, Name of the goddess of volcanoes and fire in Hawaiian mythology; N.L. neut. n. *archaeum*, An archaeon; N.L. neut. n. *Pelearchaeum*, An archaeon named after *Pele*, the goddess of volcanoes and fire

### Nomenclatural type

Species *Pelearchaeum maunauluense*<sup>Ts</sup>

### Classification

*Incertae sedis* (Archaea) » "Caldarchaeales" » *Calditenuaceae* » *Pelearchaeum*

### References

Effective publication: Balbay et al., 2023 [1]

### Registry URL

<https://seqco.de/i:31329>

## Genus *Calditenuis*

---

### Etymology

[Cal.di.te'nu.is] L. masc. adj. *caldus*, warm; L. masc. / fem. adj. *tenuis*, thin, slender; N.L. masc. n. *Calditenuis*, a warm and slender organism

### Nomenclatural type

Species *Calditenuis fumarioli*<sup>Ts</sup>

### Classification

*Incertae sedis* (Archaea) » "Caldarchaeales" » *Calditenuaceae* » *Calditenuis*

**References**

Effective publication: Balbay et al., 2023 [1]

**Registry URL**

<https://seqco.de/i:32069>

---

**Species *Pelearchaeum maunauluense*<sup>TS</sup>**

---

**Etymology**

[ma.u.na.u.lu.en'se] N.L. neut. adj. *maunauluense*, of Mauna Ulu volcano in Hawaii

**Nomenclatural type**

[NCBI Assembly: GCA\\_030059675.1](#)<sup>TS</sup>

**Description**

This species is the type for the genus *Pelearchaeum*. 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.

**Classification**

*Incertae sedis* (Archaea) » "Caldarchaeales" » *Calditenuaceae* » *Pelearchaeum* » *Pelearchaeum maunauluense*<sup>TS</sup>

**References**

Effective publication: Balbay et al., 2023 [1]

**Registry URL**

<https://seqco.de/i:31328>

---

**Species *Calditenuis fumarioli*<sup>TS</sup>**

---

**Etymology**

[fu.ma.ri.o'li] N.L. gen. n. *fumarioli*, of a fumarole, referring to the source of the nomenclatural type

**Nomenclatural type**

[NCBI Assembly: GCA\\_030059665.1](#)<sup>TS</sup>

**Classification**

*Incertae sedis* (Archaea) » "Caldarchaeales" » *Calditenuaceae* » *Calditenuis* » *Calditenuis fumarioli*<sup>TS</sup>

**References**

Effective publication: Balbay et al., 2023 [1]

**Registry URL**

<https://seqco.de/i:31385>

---

**References**

1. Balbay et al. (2023). Metabolic versatility of Caldarchaeales from geothermal features of Hawai'i and Chile as revealed by five metagenome-assembled genomes. *Frontiers in Microbiology*. [DOI:10.3389/fmicb.2023.1216591](https://doi.org/10.3389/fmicb.2023.1216591)

## Register List Certificate of Validation

On behalf of the *Committee on the Systematics of Prokaryotes Described from Sequence Data* (SeqCode Committee), we hereby certify that the Register List [seqco.de/r:-286wyu6](https://seqco.de/r:-286wyu6) submitted by **Saw, Jimmy** and including 5 new names has been successfully validated.

**Date of Priority:** 2023-11-17 07:38 UTC

**DOI:** 10.57973/seqcode.r:-286wyu6

