

# Register list for *Jordarchaeum madagascariense* gen. nov. sp. nov. and their lineage

Submitted by Rinke, Chris

## Class *Jordiarchaeia*

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### Etymology

[Jor.di.ar.chae'i.a] N.L. neut. n. *Jordiarchoeum*, genus name; *-ia*, ending to designate a class; N.L. neut. pl. n. *Jordiarchaeia*, the Jordiarchoeum class

### Nomenclatural type

Genus *Jordiarchoeum*

### Description

Sun, et al (2021): The class is circumscribed based on concatenated protein phylogeny and rank normalisation approach as per Parks et al. Type genus is *Jordiarchoeum*. The description is the same as for *Jordiarchaeales* ord.nov.

### Classification

*Archaea* » *Asgardarchaeota* » *Jordiarchaeia*

### References

Effective publication: Sun et al., 2021 [1]

### Registry URL

<https://seqco.de/i:637>

## Order *Jordiarchaeales*

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### Etymology

[Jor.di.ar.chae.a'les] N.L. neut. n. *Jordiarchoeum*, genus name; *-ales*, ending to designate an order; N.L. fem. pl. n. *Jordiarchaeales*, the Jordiarchoeum order

### Nomenclatural type

Genus *Jordiarchoeum*

### Description

Sun, et al (2021): The order is circumscribed based on concatenated protein phylogeny and rank normalisation approach as per Parks et al. Type genus is *Jordiarchoeum*. The description is the same as for *Jordiarchoeum* gen. nov.

### Classification

*Archaea* » *Asgardarchaeota* » *Jordiarchaeia* » *Jordiarchaeales*

### References

Effective publication: Sun et al., 2021 [1]

### Registry URL

<https://seqco.de/i:635>

## Family *Jordiarchaeaceae*

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**Etymology**

[Jor.di.ar.chae.ace'ae] **N.L. neut. n.** *Jordiarchaeum*, genus name; *-aceae*, ending to designate a family; **N.L. fem. pl. n.** *Jordiarchaeaceae*, the Jordiarchaeum family

**Nomenclatural type**

Genus *Jordiarchaeum*

**Description**

Sun, et al (2021): The family is circumscribed based on concatenated protein phylogeny and rank normalisation approach as per Parks et al. Type genus is *Jordiarchaeum*. The description is the same as for *Jordiarchaeum* gen. nov.

**Classification**

*Archaea* » *Asgardarchaeota* » *Jordiarchaeia* » *Jordiarchaeales* » *Jordiarchaeaceae*

**References**

Effective publication: Sun et al., 2021 [1]

**Registry URL**

<https://seqco.de/i:633>

## Genus *Jordiarchaeum*

**Etymology**

[Jor.di.ar.chae'um] **N.L. neut. n.** *Jord*, Jord, the goddess of the earth in North mythology; **N.L. neut. n.** *archaeum*, archaeon; **N.L. neut. n.** *Jordiarchaeum*, an archaeon named after Jord, the goddess of the earth in North mythology

**Nomenclatural type**

Species *Jordiarchaeum madagascariense*<sup>Ts</sup>

**Description**

Sun, et al (2021): Inferred to be a hetero-organotroph with genetic code expansions, i.e., recoding, allowing the incorporation of the rare 21st amino acid selenocysteine. Type species: *Jordiarchaeum madagascariense*.

**Classification**

*Archaea* » *Asgardarchaeota* » *Jordiarchaeia* » *Jordiarchaeales* » *Jordiarchaeaceae* » *Jordiarchaeum*

**References**

Effective publication: Sun et al., 2021 [1]

**Registry URL**

<https://seqco.de/i:630>

## Species *Jordiarchaeum madagascariense*<sup>Ts</sup>

**Etymology**

[ma.da.ga.scar.i.en'se] **N.L. neut. adj.** *madagascariense*, of or pertaining to Madagascar, an island country in the Indian Ocean

**Nomenclatural type**

[NCBI Assembly: GCA\\_019056875.1](#)<sup>Ts</sup>

**Description**

Sun, et al (2021): This uncultured lineage is represented by the genome "EB\_bin\_7", NCBI BioSample SAMN19461862, recovered from elephant bird fossils in Madagascar, with an estimated completeness of 95.02% and a contamination of 2.41%, the presence of a 23S, 16S and 5S rRNA gene and 16 tRNAs.

**Classification**

*Archaea* » *Asgardarchaeota* » *Jordiarchaeia* » *Jordiarchaeales* » *Jordiarchaeaceae* » *Jordiarchaeum* » *Jordiarchaeum madagascariense*<sup>Ts</sup>

**References**

Effective publication: Sun et al., 2021 [1]

**Registry URL**

<https://seqco.de/i:631>

**References**

1. Sun et al. (2021). Recoding of stop codons expands the metabolic potential of two novel Asgardarchaeota lineages. *ISME Communications*. DOI:10.1038/s43705-021-00032-0

## 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:\\_bd4p149](https://seqco.de/r:_bd4p149) submitted by **Rinke, Chris** and including 5 new names has been successfully validated.

**Date of Priority:** 2025-01-27 10:16 UTC

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