

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

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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
Class <i>Jordiarchaeia</i>	[Jor.di.ar.chae'i.a] N.L. neut. n. <i>Jordiarchaeum</i> , genus name; <i>-ia</i> , ending to designate a class; N.L. neut. pl. n. <i>Jordiarchaeia</i> , the <i>Jordiarchaeum</i> class	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 <i>Jordiarchaeum</i> . The description is the same as for <i>Jordiarchaeales</i> ord.nov.	<i>Asgardarchaeota</i>	<i>Jordiarchaeum</i>	<a href="https://seqco.de/i:637">seqco.de/i:637</a>
Order <i>Jordiarchaeales</i>	[Jor.di.ar.chae.a'les] N.L. neut. n. <i>Jordiarchaeum</i> , genus name; <i>-ales</i> , ending to designate an order; N.L. fem. pl. n. <i>Jordiarchaeales</i> , the <i>Jordiarchaeum</i> order	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 <i>Jordiarchaeum</i> . The description is the same as for <i>Jordiarchaeum</i> gen. nov.	<i>Jordiarchaeia</i>	<i>Jordiarchaeum</i>	<a href="https://seqco.de/i:635">seqco.de/i:635</a>
Family <i>Jordiarchaeaceae</i>	[Jor.di.ar.chae.ace'ae] N.L. neut. n. <i>Jordiarchaeum</i> , genus name; <i>-aceae</i> , ending to designate a family; N.L. fem. pl. n. <i>Jordiarchaeaceae</i> , the <i>Jordiarchaeum</i> family	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 <i>Jordiarchaeum</i> . The description is the same as for <i>Jordiarchaeum</i> gen. nov.	<i>Jordiarchaeales</i>	<i>Jordiarchaeum</i>	<a href="https://seqco.de/i:633">seqco.de/i:633</a>
Genus <i>Jordiarchaeum</i>	[Jor.di.ar.chae'um] N.L. neut. n. <i>Jord</i> , <i>Jord</i> , the goddess of the earth in North mythology; N.L. neut. n. <i>archaeum</i> , archaeon; N.L. neut. n. <i>Jordiarchaeum</i> , an archaeon named after <i>Jord</i> , the goddess of the earth in North mythology	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: <i>Jordiarchaeum madagascariense</i> .	<i>Jordiarchaeaceae</i>	<i>Jordiarchaeum madagascariense</i> <sup>Ts</sup>	<a href="https://seqco.de/i:630">seqco.de/i:630</a>
Species <i>Jordiarchaeum madagascariense</i> <sup>Ts</sup>	[ma.da.ga.scar.i.en'se] N.L. neut. adj. <i>madagascariense</i> , of or pertaining to Madagascar, an island country in the Indian Ocean	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.	<i>Jordiarchaeum</i>	NCBI Assembly: GCA_019056875.1 <sup>Ts</sup>	<a href="https://seqco.de/i:631">seqco.de/i:631</a>