

Register list for 4 new names including *Panguiarchaeum* 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
Order <i>Panguiarchaeales</i>	[Pan.gu.i.ar.chae.a'les] N.L. neut. n. <i>Panguiarchaeum</i> , type genus of the order; -ales , ending to denote an order; N.L. fem. pl. n. <i>Panguiarchaeales</i> , the <i>Panguiarchaeum</i> order	A novel lineage branching within <i>Korarchaeia</i> .	<i>Korarchaeia</i>	<i>Panguiarchaeum</i>	seqco.de/i:23991
Family <i>Panguiarchaeaceae</i>	[Pan.gu.i.ar.chae.a.ce'ae] N.L. neut. n. <i>Panguiarchaeum</i> , type genus of the family; -aceae , ending to denote a family; N.L. fem. pl. n. <i>Panguiarchaeaceae</i> , the <i>Panguiarchaeum</i> family	The family description is the same as that of the only species assigned to the family, <i>Panguiarchaeum symbiosum</i> .	<i>Panguiarchaeales</i>	<i>Panguiarchaeum</i>	seqco.de/i:23990
Genus <i>Panguiarchaeum</i>	[Pan.gu.i.ar.chae'um] N.L. n. <i>Pangu</i> , creation figure in Chinese mythology who separated heaven from Earth; N.L. neut. n. <i>archaeum</i> , ancient archaeon; N.L. neut. n. <i>Panguiarchaeum</i> , an archaeon created by Pangu	The genus description is the same as that of the nomenclatural type <i>Panguiarchaeum symbiosum</i> .	<i>Panguiarchaeaceae</i>	<i>Panguiarchaeum symbiosum</i> ^{Ts}	seqco.de/i:23984
Species <i>Panguiarchaeum symbiosum</i> ^{Ts}	[sym.bi.o'sum] Gr. masc. or fem. adj. <i>symbios</i> , companion; N.L. neut. adj. <i>symbiosum</i> , living together with, referring to the proposed symbiotic lifestyle	Archaea that inhabit circumneutral, terrestrial geothermal systems and are likely hyperthermophiles. Genomes of this species lack annotated pathways for synthesis of membrane lipids, many amino acids, vitamins, and purines, suggesting they are likely to be symbiotic. Predicted to be obligately anaerobic and fermentative.	<i>Panguiarchaeum</i>	NCBI Assembly: GCA_024720975.1 ^{Ts}	seqco.de/i:23983