Register list for 7 new names including Sigynarchaeum gen. nov.

Submitted by Xie, Ruize

Table 1: Complete list of names proposed in the current register list.

Proposed Taxon	Etymology	Description	Parent Taxon	Туре	Registry URL
Order <i>Sigyniarchaeales</i>	[Si.gy.ni.ar.chae.a'les] N.L. neut. n. Sigyniarchaeum, referring to the type genus Sigyniarchaeum; - ales, ending to denote an order; N.L. fem. pl. n. Sigyniarchaeales, the Sigyniarchaeum order	The order is described based on 37 concatenated conserved marker genes phylogeny. The description is the same as that of its sole genus and species. Type genus is <i>Sigynarchaeum</i> .	Lokiarchaeia	Sigyniarchaeum	seqco.de/i:44774
Family <i>Freyriarchaeaceae</i>	[Frey.ri.ar.chae.a'ce.ae] N.L. neut. n. Freyriarchaeum, referring to the type genus Freyriarchaeum; -aceae, ending to denote a family; N.L. fem. pl. n. Freyriarchaeaceae, the Freyriarchaeum family	The family is described based on 37 concatenated conserved marker genes phylogeny. The description is the same as that of its sole genus and species. Type genus is <i>Freyrarchaeum</i> .	Jordiarchaeales	Freyriarchaeum	seqco.de/i:44789
Family Sigyniarchaeaceae	[Si.gy.ni.ar.chae.a'ce.ae] N.L. neut. n. Sigyniarchaeum, referring to the type genus Sigyniarchaeum; -aceae, ending to denote a family; N.L. fem. pl. n. Sigyniarchaeaceae, the Sigyniarchaeum family	The family is described based on 37 concatenated conserved marker genes phylogeny. The description is the same as that of its sole genus and species. Type genus is <i>Sigynarchaeum</i> .	Sigyniarchaeales	Sigyniarchaeum	seqco.de/i:44816
Genus <i>Freyriarchaeum</i>	[Frey.ri.ar.chae'um] N.L. neut. n. archaeum, archaeon; N.L. neut. n. Freyriarchaeum, an archaeon named after Freyr, the god of peace in Norse mythology	A genus established on the basis of GTDBTK analyses, AAI, and phylogenomic analyses. It is classified as a member of the <i>Freyrarchaeaceae</i> family. The type species of the genus is <i>Freyrarchaeum guaymaensis</i> .	Freyriarchaeaceae	Freyriarchaeum guaymasense ^{Ts}	seqco.de/i:44790
Genus Sigyniarchaeum	[Si.gy.ni.ar.chae'um] N.L. neut. n. archaeum, archaeon; N.L. neut. n. Sigyniarchaeum, an archaeon named after Sigyn, the god of victory in North mythology		Sigyniarchaeaceae	Sigyniarchaeum tengchongense ^{Ts}	seqco.de/i:44819

Proposed Taxon	Etymology	This uncultured lineage is Description represented by the genome	Parent Taxon	Туре	Registry URL
Species <i>Freyriarchaeum</i> <i>guaymasense</i> ^{Ts}	[guay.mas.en'se] N.L. neut. adj. guaymasense, pertaining to Guaymas Basin, located in the Gulf of California, México	"GB_128" consisting of 3.8 Mbps in 131 contigs with an estimated completeness of 97.2%, an estimated contamination of 4.21% and 20 tRNAs The MAG recovered from Guaymas Basin sediment.	Freyriarchaeum	NCBI Assembly: GCA_030587405.2	seqco.de/i:44791
Species Sigyniarchaeum tengchongense ^{Ts}	[ten.gchon.gen'se] N.L. neut. adj. <i>tengchongense</i> , pertaining to Tengchong, Yunnan province in southwest China	This uncultured lineage is represented by the genome "SQRJ_234" consisting of 5.9 Mbps in 269 contigs with an estimated completeness of 91.59%, an estimated contamination of 4.67% and 21 tRNAs The MAG recovered from hot spring sediment.	Sigyniarchaeum	NCBI Assembly: GCA_030587475.2	seqco.de/i:44839