

Register list for *Ryujinia shimokita* 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
Phylum <i>Ryujiniota</i>	[Ry.u.ji.ni.o'ta] N.L. fem. n. <i>Ryujinia</i> , referring to the type genus <i>Ryujinia</i> ; <i>-ota</i> , ending to denote a phylum; N.L. neut. pl. n. <i>Ryujiniota</i> , the <i>Ryujinia</i> phylum	<i>Ryujiniota</i> phyl. nov. has a global distribution and was mainly present in public shotgun metagenome datasets labelled as marine sediment metagenome, peat metagenome, sediment metagenome, soil metagenome and groundwater metagenome. The highest relative abundances of <i>Ryujiniota</i> were found in Costa Rica margin subsurface and east pacific subsurface metagenomes with 15.75% and 15.33%, respectively.	<i>Bacteria</i>	<i>Ryujinia</i>	seqco.de/i:49691
Class <i>Ryujiniia</i>	[Ry.u.ji.ni'i.a] N.L. fem. n. <i>Ryujinia</i> , referring to the type genus <i>Ryujinia</i> ; <i>-ia</i> , ending to denote a class; N.L. neut. pl. n. <i>Ryujiniia</i> , the <i>Ryujinia</i> class	The description is the same as for the type genus <i>Ryujinia</i>	<i>Ryujiniota</i>	<i>Ryujinia</i>	seqco.de/i:49693
Order <i>Ryujiniales</i>	[Ry.u.ji.ni.a'les] N.L. fem. n. <i>Ryujinia</i> , referring to the type genus <i>Ryujinia</i> ; <i>-ales</i> , ending to denote an order; N.L. fem. pl. n. <i>Ryujiniales</i> , the <i>Ryujinia</i> order	The description is the same as for the type genus <i>Ryujinia</i>	<i>Ryujiniia</i>	<i>Ryujinia</i>	seqco.de/i:49694
Family <i>Ryujiniaceae</i>	[Ry.u.ji.ni.a'ce.ae] N.L. fem. n. <i>Ryujinia</i> , referring to the type genus <i>Ryujinia</i> ; <i>-aceae</i> , ending to denote a family; N.L. fem. pl. n. <i>Ryujiniaceae</i> , the <i>Ryujinia</i> family	The description is the same as for the type species is <i>Ryujinia shimokita</i> sp. nov	<i>Ryujiniales</i>	<i>Ryujinia</i>	seqco.de/i:49695
	[Ry.u.ji'ni.a] N.L. fem. n. <i>Ry.u.ji'ni.a</i> , named after				

Proposed Taxon	Etymology	Description	Parent Taxon	Type	Registry URL
Genus <i>Ryujinia</i>	Ryūjin (龍神, lit. 'Dragon God') the protector deity of the sea in Japanese mythology; N.L. fem. n. <i>Ryujinia</i> , named after Ryūjin (龍神, lit. 'Dragon God') the protector deity of the sea in Japanese mythology	The description is the same as for the type species is <i>Ryujinia shimokita</i> sp. nov	<i>Ryujiniaceae</i>	<i>Ryujinia shimokita</i> ^{Ts}	seqco.de/i:49696
Species <i>Ryujinia shimokita</i> ^{Ts}	[shi.mo.ki'ta] N.L. fem. n. <i>shimokita</i> , named after the sampling site, the international waters off the Shimokita Peninsula in Japan	This uncultured species is represented by the genome 'SP_28H5_5', whose genome size is 2.0 MB, with the presence of 23S, 16S and 5S rRNA genes. <i>R. shimokita</i> is inferred to have a chemolithotrophic lifestyle, since this species encodes a nearly complete Wood-Ljungdahl (WL) pathway. It also has the potential for a heterotrophic lifestyle with substrate-level phosphorylation through glycolysis, while it lacks most genes for the citrate cycle and beta-oxidation. The type genome does not encode the ability for the oxidoreduction of nitrogen or sulphur compounds.	<i>Ryujinia</i>	INSDC Nucleotide: BAAGKY000000000.1 ^{Ts}	seqco.de/i:49692