

Register list for 16 new names including *Spongiisocius variivorans* sp. 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>Spongiisociales</i>	[Spon.gi.i.so.ci.a'les] N.L. masc. n. <i>Spongiisocius</i> , referring to the type genus <i>Spongiisocius</i> ; <i>-ales</i> , ending to denote an order; N.L. fem. pl. n. <i>Spongiisociales</i> , the <i>Spongiisocius</i> order		<i>Acidimicrobiia</i>	<i>Spongiisocius</i>	seqco.de/i:24022
Family <i>Hopanoidiivorantaceae</i>	[Ho.pa.no.i.di.i.vo.ran.ta'ce.ae] N.L. n. neut. <i>Hopanoidiivorans</i> , referring to the type genus <i>Hopanoidiivorans</i> ; <i>-aceae</i> , ending to denote a family; N.L. fem. pl. n. <i>Hopanoidiivorantaceae</i> , the <i>Hopanoidiivorans</i> family		<i>Acidimicrobiales</i>	<i>Hopanoidiivorans</i>	seqco.de/i:24024
Family <i>Poriferisodalaceae</i>	[Po.ri.fe.ri.so.da.la'ce.ae] N.L. masc. n. <i>Poriferisodalis</i> , referring to the type genus <i>Poriferisodalis</i> ; <i>-aceae</i> , ending to denote a family; N.L. fem. pl. n. <i>Poriferisodalaceae</i> , the <i>Poriferisodalis</i> family		<i>Acidimicrobiales</i>	<i>Poriferisodalis</i>	seqco.de/i:24025
Family <i>Spongiisociaceae</i>	[Spon.gi.i.so.ci.a'ce.ae] N.L. masc. n. <i>Spongiisocius</i> , referring to the type genus <i>Spongiisocius</i> ; <i>-aceae</i> , ending to denote a family; N.L. fem. pl. n. <i>Spongiisociaceae</i> , the <i>Spongiisocius</i> family		<i>Spongiisociales</i>	<i>Spongiisocius</i>	seqco.de/i:24021
Family <i>Aldehydirespiratoraceae</i>	[Al.de.hy.di.res.pi.ra.to.ra'ce.ae] N.L. masc. n. <i>Aldehydirespirator</i> , referring to the type genus <i>Aldehydirespirator</i> ; <i>-aceae</i> , ending to denote a family; N.L. fem. pl. n. <i>Aldehydirespiratoraceae</i> , the <i>Aldehydirespirator</i> family		<i>Acidimicrobiales</i>	<i>Aldehydirespirator</i>	seqco.de/i:24023

Proposed Taxon	Etymology	Description	Parent Taxon	Type	Registry URL
Genus <i>Aldehydirespirator</i>	[Alde.hy.di.res.pi.ra'tor] N.L. neut. n. <i>aldehydum</i> , aldehyde; L. verb <i>respiro</i> , to breathe; N.L. masc. n. <i>Aldehydirespirator</i> , one that breathes aldehydes		<i>Aldehydirespiratoraceae</i>	<i>Aldehydirespirator catecholifindens</i> ^{Ts}	seqco.de/i:24018
Genus <i>Spongiisocius</i>	[Spon.gi.i.so'ci.us] L. fem. n. <i>spongia</i> , sponge; L. masc. n. <i>socius</i> , companion; N.L. masc. n. <i>Spongiisocius</i> , the companion of a sponge		<i>Spongiisociaceae</i>	<i>Spongiisocius variivorans</i> ^{Ts}	seqco.de/i:23714
Genus <i>Poriferisocius</i>	[Po.ri.fe.ri.so'ci.us] N.L. fem. n. <i>Porifera</i> , referring to the phylum for sponges; L. masc. n. <i>socius</i> , companion; N.L. masc. n. <i>Poriferisocius</i> , a companion of a sponge		<i>Hopanoidiivorantaceae</i>	<i>Poriferisocius aerobius</i> ^{Ts}	seqco.de/i:23719
Genus <i>Poriferisodalis</i>	[Po.ri.fe.ri.so'da.lis] N.L. fem. n. <i>Porifera</i> , referring to the phylum for sponges; L. n. masc. <i>sodalis</i> , companion; N.L. masc. n. <i>Poriferisodalis</i> , a companion of a sponge		<i>Poriferisodalaceae</i>	<i>Poriferisodalis multihospitum</i> ^{Ts}	seqco.de/i:23720
Genus <i>Hopanoidiivorans</i>	[Ho.pa.no.i.di.i.vo'rans] N.L. neut. n. <i>hopanoidium</i> , hopanoid; L. pres. part. <i>vorans</i> , eating; N.L. neut. n. <i>Hopanoidiivorans</i> , one that eats hopanoids		<i>Hopanoidiivorantaceae</i>	<i>Hopanoidiivorans cymbastelae</i> ^{Ts}	seqco.de/i:23718
Species <i>Spongiisocius variivorans</i> ^{Ts}	[va.ri.i.vo'rans] L. masc. adj. <i>varius</i> , diverse; L. pres. part. <i>vorans</i> , eating; N.L. masc. adj. <i>variivorans</i> , one with diversified eating	Symbiont associated with 31 sponge species. Predicted to be capable of utilizing multiple different types of electron donors, including sn-glycerol 3-phosphate, (S)-hydroxyglutarate, (S)-lactate, (S)-2-hydroxybutanoate, choline, glycolate, and FADH ₂ .	<i>Spongiisocius</i>	NCBI Assembly: GCA_028279005.1 ^{Ts}	seqco.de/i:23655
Species <i>Poriferisocius aerobius</i> ^{Ts}	[ae.ro'bi.us] Gr. masc. n. <i>aer</i> , air; Gr. masc. n. <i>bios</i> , life; N.L. masc. adj. <i>aerobius</i> , one who lives with air	Symbiont found to be enriched in sponge microbiomes, and no other environments.	<i>Poriferisocius</i>	NCBI Assembly: GCA_028278955.1 ^{Ts}	seqco.de/i:23658

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Species <i>Poriferisocius anaerobius</i>	[a.nae.ro'bi.us] Gr. pref. <i>an-</i> , not; Gr. masc. n. <i>aer</i> , air; Gr. masc. n. <i>bios</i> , life; N.L. masc. adj. <i>anaerobius</i> , one who lives without air	Symbiont found to be enriched in sponge microbiomes, and no other environments. Predicted to be capable of growth under anoxic conditions with fumarate and hydrogen peroxide as electron acceptors	<i>Poriferisocius</i>	NCBI Assembly: GCA_028278785.1 Ts	seqco.de/i:23659
Species <i>Poriferisodalis multihospitum</i> ^{Ts}	[mul.ti.hos.pi'tum] L. masc. adj. <i>multus</i> , numerous; L. masc. n. <i>hospes</i> , a host; N.L. masc. adj. <i>multihospitum</i> , one who lives with multiple hosts	Sponge symbiont found in many sponges species and predict to be a facultatively aerobic chemoorganoheterotroph and capable of assimilating nitrogen, sulfur, and carbon from diverse sources.	<i>Poriferisodalis</i>	NCBI Assembly: GCA_028278755.1 Ts	seqco.de/i:23660
Species <i>Aldehydirespirator catecholifindens</i> ^{Ts}	[ca.te.cho.li.fin'dens] N.L. neut. n. <i>catecholum</i> , catechol; L. v. <i>findo</i> , to split; N.L. masc. part. adj. <i>catecholifindens</i> , one with the ability to split catechols	Sponge-derived acidimicrobial species with the predicted capability to degrade catechol. Its electron transport chain may also rely on acetaldehyde reduction for menaquinol/menaquinone cycling	<i>Aldehydirespirator</i>	NCBI Assembly: GCA_028283245.1 Ts	seqco.de/i:24017
Species <i>Hopanoidiivorans cymbastelae</i> ^{Ts}	[cym.bas.te'lae] N.L. gen. n. <i>cymbastelae</i> , from the sponge genus <i>Cymbastela</i>	A highly host-specific sponge ymbiont, found so far exclusively in <i>C. coralliophila</i> . Predicted capacity to produce hopanoids.	<i>Hopanoidiivorans</i>	NCBI Assembly: GCA_028283145.1 Ts	seqco.de/i:23657