

# Register list for 16 new names including *Spongiisocius variivorans* sp. nov.

Submitted by Thomas, Torsten

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>	<a href="https://seqco.de/i:24022">seqco.de/i:24022</a>
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>	<a href="https://seqco.de/i:24025">seqco.de/i:24025</a>
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>	<a href="https://seqco.de/i:24021">seqco.de/i:24021</a>
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>	<a href="https://seqco.de/i:24024">seqco.de/i:24024</a>
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>	<a href="https://seqco.de/i:24023">seqco.de/i:24023</a>

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Genus <i>Poriferisocius</i>	[Po.ri.fe.ri.so'ci.us] <b>N.L. fem. n.</b> <i>Porifera</i> , referring to the phylum for sponges; <b>L. masc. n.</b> <i>socius</i> , companion; <b>N.L. masc. n.</b> <i>Poriferisocius</i> , a companion of a sponge		<i>Hopanoidiivorantaceae</i>	<i>Poriferisocius aerobius</i> <sup>Ts</sup>	<a href="https://seqco.de/i:23719">seqco.de/i:23719</a>
Genus <i>Poriferisodalis</i>	[Po.ri.fe.ri.so'da.lis] <b>N.L. fem. n.</b> <i>Porifera</i> , referring to the phylum for sponges; <b>L. n. masc.</b> <i>sodalis</i> , companion; <b>N.L. masc. n.</b> <i>Poriferisodalis</i> , a companion of a sponge		<i>Poriferisodalaceae</i>	<i>Poriferisodalis multihospitum</i> <sup>Ts</sup>	<a href="https://seqco.de/i:23720">seqco.de/i:23720</a>
Genus <i>Hopanoidiivorans</i>	[Ho.pa.no.i.di.i.vo'rans] <b>N.L. neut. n.</b> <i>hopanoidium</i> , hopanoid; <b>L. pres. part.</b> <i>vorans</i> , eating; <b>N.L. neut. n.</b> <i>Hopanoidiivorans</i> , one that eats hopanoids		<i>Hopanoidiivorantaceae</i>	<i>Hopanoidiivorans cymbastelae</i> <sup>Ts</sup>	<a href="https://seqco.de/i:23718">seqco.de/i:23718</a>
Genus <i>Aldehydirespirator</i>	[Alde.hy.di.res.pi.ra'tor] <b>N.L. neut. n.</b> <i>aldehydum</i> , aldehyde; <b>L. verb</b> <i>respiro</i> , to breathe; <b>N.L. masc. n.</b> <i>Aldehydirespirator</i> , one that breathes aldehydes		<i>Aldehydirespiratoraceae</i>	<i>Aldehydirespirator catecholifindens</i> <sup>Ts</sup>	<a href="https://seqco.de/i:24018">seqco.de/i:24018</a>
Genus <i>Spongiisocius</i>	[Spon.gi.i.so'ci.us] <b>L. fem. n.</b> <i>spongia</i> , sponge; <b>L. masc. n.</b> <i>socius</i> , companion; <b>N.L. masc. n.</b> <i>Spongiisocius</i> , the companion of a sponge		<i>Spongiisociaceae</i>	<i>Spongiisocius variivorans</i> <sup>Ts</sup>	<a href="https://seqco.de/i:23714">seqco.de/i:23714</a>
Species <i>Poriferisocius anaerobius</i>	[a.nae.ro'bi.us] <b>Gr. pref.</b> <i>an-</i> , not; <b>Gr. masc. n.</b> <i>aer</i> , air; <b>Gr. masc. n.</b> <i>bios</i> , life; <b>N.L. masc. adj.</b> <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 <sup>Ts</sup>	<a href="https://seqco.de/i:23659">seqco.de/i:23659</a>
Species <i>Poriferisodalis multihospitum</i> <sup>Ts</sup>	[mul.ti.hos.pi'tum] <b>L. masc. adj.</b> <i>multus</i> , numerous; <b>L. masc. n.</b> <i>hospes</i> , a host; <b>N.L. masc. adj.</b> <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 <sup>Ts</sup>	<a href="https://seqco.de/i:23660">seqco.de/i:23660</a>

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Species <i>Spongiisocius variivorans</i> <sup>Ts</sup>	[va.ri.i.vo'rans] L. <b>masc. adj.</b> <i>varius</i> , diverse; L. <b>pres. part.</b> <i>vorans</i> , eating; N.L. <b>masc. adj.</b> <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 <sub>2</sub> .	<i>Spongiisocius</i>	NCBI Assembly: GCA_028279005.1 <sup>Ts</sup>	<a href="https://seqco.de/i:23655">seqco.de/i:23655</a>
Species <i>Aldehydirespirator catecholifindens</i> <sup>Ts</sup>	[ca.te.cho.li.fin'dens] N.L. <b>neut. n.</b> <i>catecholum</i> , catechol; L. <b>v. findo</b> , to split; N.L. <b>masc. part. adj.</b> <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 <sup>Ts</sup>	<a href="https://seqco.de/i:24017">seqco.de/i:24017</a>
Species <i>Hopanoidiivorans cymbastelae</i> <sup>Ts</sup>	[cym.bas.te'lae] N.L. <b>gen. n.</b> <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 <sup>Ts</sup>	<a href="https://seqco.de/i:23657">seqco.de/i:23657</a>
Species <i>Poriferisocius aerobius</i> <sup>Ts</sup>	[ae.ro'bi.us] Gr. <b>masc. n.</b> <i>aer</i> , air; Gr. <b>masc. n.</b> <i>bios</i> , life; N.L. <b>masc. adj.</b> <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 <sup>Ts</sup>	<a href="https://seqco.de/i:23658">seqco.de/i:23658</a>