

# Register list for 6 new names including *Sacchlamyda saccharinae* sp. nov.

Submitted by Davison, Helen Rebecca

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

Proposed Taxon	Etymology	Description	Parent Taxon	Type	Registry URL
Genus <i>Sacchariniichlamydia</i>	[Sac.cha.ri.ni.i.chla.my'di.a] <b>N.L. fem. n.</b> <i>Saccharina</i> , the putative algal host of the bacterium, <i>Saccharina japonica</i> ; <b>N.L. fem. n.</b> <i>Chlamydia</i> , the bacterial genus <i>Chlamydia</i> ; <b>N.L. fem. n.</b> <i>Sacchariniichlamydia</i> , <i>Chlamydia</i> related bacteria from <i>Saccharina</i> algae	A genus of Rhabdochlamydiaceae bacteria. The type species was extracted through a metagenomic assembly pipeline from the seaweed <i>Saccharina japonica</i> . Genus status was established on the basis of sharing <65% Average Amino-acid Identity (AAI) with any other Rhabdochlamydiaceae bacteria, as well as phylogenetic analysis of single copy core amino acids from 112 <i>Chlamydiae</i> bacteria. Analysis using the GTDB-tk pipeline assigned the type genome to an unnamed Rhabdochlamydiaceae genus.	<i>Rhabdochlamydiaceae</i>	<i>Sacchariniichlamydia saccharinae</i> <sup>Ts</sup>	<a href="https://seqco.de/i:31325">seqco.de/i:31325</a>
Genus <i>Amphritriteisimkania</i>	[Am.phri.tri.te.i.sim.ka'ni.a] <b>N.L. fem. n.</b> <i>Amphritrite</i> , from Gr. Amphritrite, wife of Poseidon; <b>N.L. fem. n.</b> <i>Simkania</i> , the bacterial genus <i>Simkania</i> ; <b>N.L. fem. n.</b> <i>Amphritriteisimkania</i> , the "Simkania" of Amphritrite	A genus of Simkaniaceae bacteria. The type species was extracted through a metagenomic assembly pipeline from the syndinian parasite <i>Amoebophrya</i> sp. AT5.2. Genus status was established on the basis of sharing <65% Average Amino-acid Identity (AAI) with any other Simkaniaceae bacteria, as well as phylogenetic analysis of single copy core amino acids from 112 <i>Chlamydiae</i> bacteria. Analysis using the GTDB-tk pipeline assigned the type genome to an unnamed Simkaniaceae genus.	<i>Simkaniaceae</i>	<i>Amphritriteisimkania amoebophryae</i> <sup>Ts</sup>	<a href="https://seqco.de/i:31322">seqco.de/i:31322</a>

Proposed Taxon	Etymology	Description	Parent Taxon	Type	Registry URL
Genus <i>Acherontichlamydia</i>	[A.che.ron.ti.chla.my'di.a] L. masc. n. <i>Acheron</i> , the Greek mythological river that flows above and below ground through swamps and caverns; N.L. fem. fem. n. <i>Chlamydia</i> , the bacterial genus Chlamydia; N.L. fem. n. <i>Acherontichlamydia</i> , the Chlamydia from Acheron	A genus of Rhabdochlamydiaceae bacteria. The type species was identified through the NCBI nr database with bait sequences from other Rhabdochlamydiaceae. Genus status was established on the basis of sharing <65% Average Amino-acid Identity (AAI) with any other Rhabdochlamydiaceae bacteria, as well as phylogenetic analysis of single copy core amino acids from 112 Chlamydiae bacteria. Analysis using the GTDB-tk pipeline assigned the type genome to an unnamed Rhabdochlamydiaceae genus.	<i>Rhabdochlamydiaceae</i>	<i>Acherontichlamydia pituitae</i> <sup>Ts</sup>	<a href="https://seqco.de/i:31374">seqco.de/i:31374</a>
Species <i>Sacchariniichlamydia saccharinae</i> <sup>Ts</sup>	[sac.cha.ri'nae] N.L. gen. n. <i>saccharinae</i> , of <i>Saccharina</i> seaweed	A species of Rhabdochlamydiaceae bacteria. The type species was extracted through a metagenomic assembly pipeline applied to the seaweed <i>Saccharina japonica</i> (accession SRR2043156). Species status was established based on sharing <95% Average Nucleotide Identity (ANI) with any other Rhabdochlamydiaceae.	<i>Sacchariniichlamydia</i>	NCBI Assembly: GCA_030408505.1 <sup>Ts</sup>	<a href="https://seqco.de/i:31324">seqco.de/i:31324</a>
Species <i>Amphritriteisimkania amoebophyrae</i> <sup>Ts</sup>	[a.moe.bo.phy'rae] N.L. gen. n. <i>amoebophyrae</i> , of amoebophyra	A species of Simkaniaceae bacteria. The type species was extracted through a metagenomic assembly pipeline applied to the syndinian parasite <i>Amoebophrya</i> sp. AT5.2 (accession SRR3080743). Species status was established based on sharing <95% Average Nucleotide Identity (ANI) with any other Simkaniaceae.	<i>Amphritriteisimkania</i>	NCBI Assembly: GCA_030408475.1 <sup>Ts</sup>	<a href="https://seqco.de/i:31321">seqco.de/i:31321</a>
Species <i>Acherontichlamydia pituitae</i> <sup>Ts</sup>	[pi.tu.i'tae] L. gen. n. <i>pituitae</i> , sludge	A species of Rhabdochlamydiaceae bacteria. The type species was identified through the NCBI nr database with bait sequences from other Rhabdochlamydiaceae. Species status was established based on sharing <95% Average Nucleotide Identity (AAI) with any other Rhabdochlamydiaceae.	<i>Acherontichlamydia</i>	NCBI Assembly: GCA_019634675.1 <sup>Ts</sup>	<a href="https://seqco.de/i:31373">seqco.de/i:31373</a>