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

Submitted by Davison, Helen Rebecca

Genus *Acherontichlamydia*

Etymology
[A.che.ron.ti.chla.my'di.a] **L. masc. n.** *Acheron*, the Greek mythological river that flows above and below ground through swamps and caverns; **N.L. fem. fem. n.** *Chlamydia*, the bacterial genus Chlamydia; **N.L. fem. n.** *Acherontichlamydia*, the Chlamydia from Acheron

Nomenclatural type
Species *Acherontichlamydia pituitae*[Ts]

Description
A genus of Rhabdochlamydiaceae bacteria. The type species was identified though 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.

Classification
Bacteria » *Chlamydiota* » *Chlamydiia* » *Parachlamydiales* » “Rhabdochlamydiaceae” » *Acherontichlamydia*

References
Effective publication: Davison, Hurst, 2023 [1]

Registry URL
https://seqco.de/i:31374

Genus *Amphritriteisimkania*

Etymology
[Am.phri.tri.te.i.sim.ka'ni.a] **N.L. fem. n.** *Amphritrite*, from Gr. Amphritrite, wife of Poseidon; **N.L. fem. n.** *Simkania*, the bacterial genus Simkania; **N.L. fem. n.** *Amphritriteisimkania*, the "Simkania" of Amphritrite

Nomenclatural type
Species *Amphritriteisimkania amoebophyrae*[Ts]

Description
A genus of Simkaniaceae bacteria. The type species was extracted through a metagenomic assembly pipeline from the syndinian parasite *Amoebophrya* 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 Chlamydiae bacteria. Analysis using the GTDB-tk pipeline assigned the type genome to an unnamed Simkaniaceae genus.

Classification
Bacteria » *Chlamydiota* » *Chlamydiia* » *Chlamydiales* » *Simkaniaceae* » *Amphritriteisimkania*

References
Effective publication: Davison, Hurst, 2023 [1]

Registry URL
https://seqco.de/i:31322

Genus *Sacchariniichlamydia*

Etymology
[Sac.cha.ri.ni.i.chla.my'di.a] **N.L. fem. n.** *Saccharina*, the putative algal host of the bacterium, Saccharina japonica; **N.L. fem. n.** *Chlamydia*, the bacterial genus Chlamydia; **N.L. fem. n.** *Sacchariniichlamydia*, Chlamydia related bacteria from Saccharina algae

Nomenclatural type
Species *Sacchariniichlamydia saccharinae*[Ts]

Description
A genus of Rhabdochlamydiaceae bacteria. The type species was extracted through a metagenomic assembly pipeline from the seaweed *Saccharina japonica*. 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.

Classification
Bacteria » *Chlamydiota* » *Chlamydiia* » *Parachlamydiales* » “Rhabdochlamydiaceae” » *Sacchariniichlamydia*

References
Effective publication: Davison, Hurst, 2023 [1]

Registry URL
https://seqco.de/i:31325

Species *Acherontichlamydia pituitae*[Ts]

Etymology
[pi.tu.i'tae] **L. gen. n.** *pituitae*, sludge

Nomenclatural type
Genome sc|0000415 [Ts]

Description
A species of Rhabdochlamydiaceae bacteria. The type species was identified though 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.

Classification
Bacteria » *Chlamydiota* » *Chlamydiia* » *Parachlamydiales* » “Rhabdochlamydiaceae” » *Acherontichlamydia* » *Acherontichlamydia pituitae*[Ts]

References
Effective publication: Davison, Hurst, 2023 [1]

Registry URL
https://seqco.de/i:31373

Species *Amphritriteisimkania amoebophyrae*[Ts]

Etymology
[a.moe.bo.phy'rae] **N.L. gen. n.** *amoebophyrae*, of amoebophyra

Nomenclatural type
Genome sc|0000471 [Ts]

Description
A species of Simkaniaceae bacteria. The type species was extracted through a metagenomic assembly pipeline applied to the syndinian parasite *Amoebophrya* sp. AT5.2 (accession SRR3080743). Species status was established based on sharing <95% Average Nucleotide Identity (ANI) with any other Simkaniaceae.

Classification
Bacteria » *Chlamydiota* » *Chlamydiia* » *Chlamydiales* » *Simkaniaceae* » *Amphritriteisimkania* » *Amphritriteisimkania amoebophyrae*[Ts]

References
Effective publication: Davison, Hurst, 2023 [1]

Registry URL
https://seqco.de/i:31321

Species *Sacchariniichlamydia saccharinae*[Ts]

Etymology
[sac.cha.ri'nae] **N.L. gen. n.** *saccharinae*, of Saccharina seaweed

Nomenclatural type
Genome sc|0000472 [Ts]

Description
A species of Rhabdochlamydiaceae bacteria. The type species was extracted through a metagenomic assembly pipeline applied to the seaweed *Saccharina japonica* (accession SRR2043156). Species status was established based on sharing <95% Average Nucleotide Identity (ANI) with any other Rhabdochlamydiaceae.

Classification
Bacteria » *Chlamydiota* » *Chlamydiia* » *Parachlamydiales* » “Rhabdochlamydiaceae” » *Sacchariniichlamydia* » *Sacchariniichlamydia saccharinae*[Ts]

References
Effective publication: Davison, Hurst, 2023 [1]

Registry URL
https://seqco.de/i:31324

References

1. Davison, Hurst (2023). Hidden from plain sight: Novel Simkaniaceae and Rhabdochlamydiaceae diversity emerging from screening genomic and metagenomic data. *Systematic and Applied Microbiology*. DOI: 10.1016/j.syapm.2023.126468

Register List Certificate of Validation

On behalf of the *Committee on the Systematics of Prokaryotes Described from Sequence Data* (SeqCode Committee), we hereby certify that the Register List **seqco.de/r:bsk8pkm4** submitted by **Davison, Helen Rebecca** and including 6 new names has been successfully validated.

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