Genus *Aquirickettsia*

Etymology
[A.qui.ric.ketts'i.a] **L. fem. n.** *aqua*, water; **N.L. fem. n.** *Rickettsia*, a bacterial genus; **N.L. fem. n.** *Aquirickettsia*, an aquatic *Rickettsia*

Nomenclatural type
Species *Aquirickettsia rohweri*[Ts]

Description
The genus *Aquirickettsia* (corrected from *Aquarickettsia* by Oren and Garrity, 2021) was placed in the family Midichloriaceae using a maximum-likelihood tree (PhyML, 1,000 bootstrap replicates) built using the full-length 16S rRNA gene recovered from the metagenome-assembled genome of *A. rohweri*. A Bayesian phylogeny generated from a concatenated amino acid alignment of 92 orthologous, single-copy marker genes fruther supported this placement. The clade (bootstrap support 91) contained other uncultured and uncharacterized bacteria associated with marine invertebrates, including symbionts of the soft coral *Gorgonia ventalina*, the stony corals *Orbicella annularis*, *Orbicella faveolata* and *Acropora cervicornis*, the sponge *Cymbastela concentrica*. It also included symbionts of two freshwater hosts, the ciliate *Euplotes woodruffi* and the cnidarian *Hydra oligactis*. The name refers to the genus's association with aquatic organisms. (Klinges et al., 2019)

Classification
Bacteria » *Pseudomonadota* » *Alphaproteobacteria* » *Rickettsiales* » "Midichloriaceae" » *Aquirickettsia*

References
Effective publication: Klinges et al., 2019 [1]
Corrigendum: Oren, Garrity, 2021 [2] (from "Aquarickettsia")

Registry URL
https://seqco.de/i:50452

References

1. Klinges et al. (2019). Phylogenetic, genomic, and biogeographic characterization of a novel and ubiquitous marine invertebrate-associated Rickettsiales parasite, *Candidatus* Aquarickettsia rohweri, gen. nov., sp. nov. *The ISME Journal*. DOI: 10.1038/s41396-019-0482-0
2. Oren, Garrity (2021). Candidatus List No. 2. Lists of names of prokaryotic Candidatus taxa. *International Journal of Systematic and Evolutionary Microbiology*. DOI: 10.1099/ijsem.0.004671