

Register list for *Tharpella aukensis* gen. nov. sp. nov. and Tharpellaceae fam. 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 |
|--|---|--|-----------------------------|---|---|
| Family <i>Tharpellaceae</i> | [Thar.pel.la'ce.ae] N.L. fem. n. <i>Tharpella</i> , referring to the type genus Tharpella; - <i>aceae</i> , ending to denote a family; N.L. fem. pl. n. <i>Tharpellaceae</i> , the Tharpella family | The description of the family Tharpellaceae is the same as that of the genus Tharpella. The type genus is Tharpella. | <i>Anaeroferrophillales</i> | <i>Tharpella</i> | seqco.de/i:43107 |
| Genus <i>Tharpella</i> | [Thar.pel'la] N.L. fem. n. <i>Tharpella</i> , named after Marie Tharp (1920–2006), American geologist who pioneered systematic mapping of the seafloor and whose work was instrumental for the understanding of plate tectonics, and ultimately, the discovery of hydrothermal vents | A bacterial genus identified by metagenomic analyses and delineated according to Relative Evolutionary Distance by the Genome Taxonomy Database (GTDB). The type species of the genus is “ <i>Candidatus</i> Tharpella aukensis”. | <i>Tharpellaceae</i> | <i>Tharpella aukensis</i> ^{Ts} | seqco.de/i:43402 |
| Species <i>Tharpella aukensis</i> ^{Ts} | [a.u.ken'sis] L. fem. adj. <i>aukensis</i> , pertaining to the Auka vent field, where this species was discovered | A bacterial species identified by metagenomic analyses. This species includes all bacteria with genomes that show ≥95% average nucleotide identity to the type genome for the species to which we have assigned the MAG ID PB_MBMC_085 and which is available via NCBI BioSample SAMN18353627 and NCBI GenBank accession GCA_021163445.1 . | <i>Tharpella</i> | NCBI Assembly: GCA_021163445.1 ^{Ts} | seqco.de/i:43695 |