

Species *Actinosomnolentus pattersoniae*^{Ts}

Etymology

[pat.ter.so'ni.æ] **N.L. gen. n.** *pattersoniae*, in honour to Diana Patterson, first woman to lead an Australian Antarctic research station.

Nomenclatural type

[NCBI Assembly: GCA_965609595.1](#)^{Ts}

Description

The type material is the metagenome assembled genome BH-20_ACT24 recovered from soil from Bunger Hills, East Antarctica. The MAG consists of 2.5 Mbp in 107 contigs with an estimated completeness of 93.99% and 0.16% contamination, 16S (1532 bp), 23S (4576 bp), and 5S (117 bp) genes, and 47 tRNAs (21 unique: 19 standard plus tRNA-fMet and tRNA-SeC). The GC content of this MAG is 68.3%. Predicted to consume H₂ at atmospheric levels (high affinity [NiFe]-hydrogenase type 1m). Genome also harbours catechol 2,3-dioxygenase [EC:1.13.11.2]. This species is equivalent to the placeholder species s__JACDCJ01 sp013817655 under the GTDB R220.

Classification

Bacteria » *Actinomycetota* » *Aridivitia* » *Actinosomnolentales* » *Actinosomnolentaceae* » *Actinosomnolentus* » *Actinosomnolentus pattersoniae*^{Ts}

References

Effective publication: Tan et al., 2026 [1]

Registry URL

<https://seqco.de/i:51182>

References

1. Tan et al. (2026). Persistent petroleum pollution shifts soil microbial responses in Bunger Hills, East Antarctica. *Communications Earth & Environment*. [DOI:10.1038/s43247-026-03299-0](https://doi.org/10.1038/s43247-026-03299-0)