

Genus *Electrothrix*

Etymology

[E.lec'tro.thrix] Gr. neut. n. *ēlektron*, amber (which is the origin of the term electric); Gr. fem. n. *thrix*, hair; N.L. fem. n. *Electrothrix*, electric hair

Nomenclatural type

Species *Electrothrix communis*^{T5}

Description

Multicellular filaments, up to several centimeters in length, with 15 to >70 characteristic longitudinal ridges and shared periplasm across cells; electron-conducting; typically spanning the suboxic zone in surface sediments; individual cells are 0.4–8 μm × 2–3 μm in size; polyphosphate inclusions; no sulfur inclusions; gliding motility; mostly marine, including coastal, salt marsh and salt lake inhabiting.

Classification

Bacteria » *Desulfobacterota* » *Desulfobulbia* » *Desulfobales* » *Desulfobulbaceae* » *Electrothrix*

References

Effective publication: Plum-Jensen et al., 2024 [1]
Assigned taxonomically: Trojan et al., 2016 [2]

Registry URL

<https://seqco.de/i:32140>

References

1. Plum-Jensen et al. (2024). First single-strain enrichments of *Electrothrix* cable bacteria, description of *E. aestuarii* sp. nov. and *E. rattekaaiensis* sp. nov., and proposal of a cable bacteria taxonomy following the rules of the SeqCode. *Systematic and Applied Microbiology*. DOI:10.1016/j.syapm.2024.126487
2. Trojan et al. (2016). A taxonomic framework for cable bacteria and proposal of the candidate genera *Electrothrix* and *Electronema*. *Systematic and Applied Microbiology*. DOI:10.1016/j.syapm.2016.05.006