

Genus *Electronema*

Etymology

[E.lec.tro.ne'ma] Gr. neut. n. *ēlektron*, amber; Gr. neut. n. *nēma*, a thread; N.L. neut. n. *Electronema*, an electric wire

Nomenclatural type

Species *Electronema aureum*^{T5}

Description

Multicellular filaments, up to several centimeters in length, with 15–58 characteristic longitudinal ridges and shared periplasm across cells; electron-conducting; typically spanning the suboxic zone in surface sediments; individual cells are 0.4–3 μm × 1–3 μm in size; no sulfur inclusions; gliding motility; mostly freshwater-inhabiting.

Classification

Bacteria » *Desulfobacterota* » *Desulfobulbia* » *Desulfobales* » *Desulfobulbaceae* » *Electronema*

References

Effective publication: Thorup et al., 2021 [1]

Assigned taxonomically: Trojan et al., 2016 [2]

Registry URL

<https://seqco.de/i:23721>

References

1. Thorup et al. (2021). How to grow your cable bacteria: Establishment of a stable single-strain culture in sediment and proposal of Candidatus *Electronema aureum* GS. *Systematic and Applied Microbiology*. DOI:10.1016/j.syapm.2021.126236
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