

# Electrothrix gigas sp. 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
Species <i>Electrothrix gigas</i>	[gi'gas] N.L. masc. n. <i>gigas</i> , a giant (nominative in apposition), referring to its very large cell diameter	Filamentous bacteria of centimeter length that inhabit the surface of marine and coastal sediment and conduct electrons from sulfide-oxidizing cells to oxygen-reducing cells. Cell diameters >2.5 µm (commonly 2.5-8 µm). Gliding motility. Gram-negative, with distinct ridges running longitudinally along the filament. Can assimilate acetate and propionate; CO <sub>2</sub> fixation via the Wood-Ljungdahl pathway. Contains c-type cytochromes and type IV pili (PilA). Polyphosphate and polyglucose storage. Distinguishable by size, 16S rRNA gene sequence and genome.	<i>Electrothrix</i>	NCBI Assembly: GCA_022766165.1 Ts	<a href="https://seqco.de/i:32701">seqco.de/i:32701</a>