Register list for 3 new Electrothrix species names including Electrothrix gen. nov.

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Table 1: Complete list of names proposed in the current register list.

Proposed Taxon	Etymology	Description	Parent Taxon	Туре	Registry URL
Genus Electrothrix	[E.lec'tro.thrix] Gr. neut. n. êlektron, amber (which is the origin of the term electric); Gr. fem. n. thrix, hair; N.L. fem. n. Electrothrix, electric hair	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 $0.4-8~\mu m \times 2-3~\mu m$ in size; polyphosphate inclusions; no sulfur inclusions; gliding motility; mostly marine, including coastal, salt marsh and salt lake inhabiting.	Desulfobulbaceae	Electrothrix communis ^{Ts}	seqco.de/i:32140
Species Electrothrix rattekaaiensis	[rat.te.kaai.en'sis] N.L. fem. adj. rattekaaiensis, from Rattekaai, referring to the location of sample collection	Filamentous bacteria of centimeter length that inhabit the surface of brackish/intertidal sediment and conduct electrons from sulfide-oxidizing cells to oxygen-reducing cells. Gliding motility. Gram-negative, with 15 distinct ridges running longitudinally along the filament. Width of individual cells is 1.2 µm. Can assimilate acetate and propionate; CO2 fixation via the Wood-Ljungdahl pathway. Contains c-type cytochromes, type IV pili (PilA) and Na+antiporters. Polyphosphate and polyglucose storage. Distinguishable by morphology and genome.	Electrothrix	NCBI Assembly: GCA_032595675.1	seqco.de/i:33364
Species Electrothrix aestuarii	[ae.stu.a'ri.i] L. gen. n. aestuarii, of a tidal flat/estuary, referring to the habitat it was collected from	Filamentous bacteria of centimeter length that inhabit the surface of brackish/intertidal sediment and conduct electrons from sulfide-oxidizing cells to oxygen-reducing cells. Gliding motility. Gram-negative, with 15 distinct ridges running longitudinally along the filament. Width of individual cells is 1.2 µm. Can assimilate acetate and propionate; CO2fixation via the Wood-Ljungdahl pathway. Contains c-type cytochromes, type IV pili (PilA) and Na+ antiporters. Polyphosphate and polyglucose storage. Distinguishable by morphology and genome.	Electrothrix	NCBI Assembly: GCA_032595685.1	seqco.de/i:33363

Proposed Taxon	Etymology	Description	Parent Taxon	Туре	Registry URL
Species Electrothrix communis ^{Ts}	[com.mu'nis] L. fem. adj. communis, common	Filamentous bacteria of centimeter length that inhabit the surface of brackish/intertidal sediment and conduct electrons from sulfide-oxidizing cells to oxygen-reducing cells. Gliding motility. Gram-negative, with 15 distinct ridges running longitudinally along the filament. Width of individual cells is 0.8 µm. Can assimilate acetate and propionate; CO2 fixation via the Wood-Ljungdahl pathway. Contains c-type cytochromes, type IV pili (PilA) and Na+ antiporters. Polyphosphate and polyglucose storage. Distinguishable by morphology and genome.	Electrothrix	NCBI Assembly: GCA_030644725.1	seqco.de/i:32139