Allocrenothrix methanica 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
Genus *Allocrenothrix*	[Al.lo.cre.no.thrix.] **Gr. masc. pron.** *allos*, other, another, different; **N.L. fem. n.** *Crenothrix*, a bacterial genus; **N.L. fem. n.** *Allocrenothrix*, the other *Crenothrix*	Cells are rods that grow as linear or branched multicellular filaments. Grows under micro-oxic conditions. Methanotrophic. Inhabits iron-rich snows and sediments along with stratified lakes. The genus corresponds to the "lacustrine Crenothrix" clade or the uncultured genus UBA4132 in GTDB R83 to R226. The nomenclatural type is *Allocrenothrix methanica*.	*Methylococcaceae*	*Allocrenothrix methanica*[Ts]	seqco.de/i:55065
Species *Allocrenothrix methanica*[Ts]	[Me.tha.ni.ca.] **N.L. neut. n.** *methanum*, methane; **L. fem. adj. suff.** *-ica*, pertaining to; **N.L. fem. adj.** *methanica*, pertaining to methane	Microaerobic. Cells are rods 1.0-1.5 µm wide and 1.9-5.0 µm long and form multicellular filaments. Filaments are linear, rarely branched. Cells are connected by conjugation-like structures. No production of gonidia has been observed. The reference strain AF98 was isolated from iron-rich microbial mat material from wetlands regions of Oze National Park (Japan).	*Allocrenothrix*	NCBI Assembly: GCA_055396535.1 [Ts]	seqco.de/i:55064