

## Genus *Allocrenothrix*

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### Etymology

[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*

### Nomenclatural type

Species *Allocrenothrix methanica*<sup>Ts</sup>

### Description

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*.

### Classification

*Bacteria* » *Pseudomonadota* » *Gammaproteobacteria* » *Methylococcales* » *Methylococcaceae* » *Allocrenothrix*

### References

Effective publication: Umezawa et al., 2026 [1]

### Registry URL

<https://seqco.de/i:55065>

## References

1. Umezawa et al. (2026). Isolation of *Allocrenothrix methanica* reveals distinct ecophysiologicals of filamentous methanotrophs and adaptations to O<sub>2</sub> limitation. *The ISME Journal*. DOI: [10.1093/ismejo/wrag178](https://doi.org/10.1093/ismejo/wrag178)