

Genus *Kouleothrix*

Etymology

[Ko.u.le.oth'rix] Gr. neut. n. *kouleon*, sheath; Gr. fem. n. *thrix*, hair, filament; N.L. fem. n. *Kouleothrix*, sheath filamentous bacteria

Nomenclatural type

Species *Kouleothrix ribensis*^{Ts}

Description

Filamentous organisms abundant in activated sludge worldwide, sometime associated with bulking episodes. They are often arranged in bundles of filaments with epiphytic bacteria. Specialized in metabolism of sugars.

Classification

Bacteria » *Chloroflexota* » *Chloroflexia* » *Chloroflexales* » *Roseiflexaceae* » *Kouleothrix*

References

- Effective publication: Petriglieri et al., 2023 [1]
Original (not valid) publication: Klappenbach, Pierson, 2004 [2]

Registry URL

<https://seqco.de/i:35217>

References

1. Petriglieri et al. (2023). A comprehensive overview of the Chloroflexota community in wastewater treatment plants worldwide. *mSystems*. DOI:10.1128/msystems.00667-23
2. Klappenbach, Pierson (2004). Phylogenetic and physiological characterization of a filamentous anoxygenic photoautotrophic bacterium ?Candidatus Chlorothrix halophila? gen. nov., sp. nov., recovered from hypersaline microbial mats. *Archives of Microbiology*. DOI:10.1007/s00203-003-0615-7