

ヒト歯肉下の歯垢から分離された新種 トレポネマ *Treponema medium*

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Treponema medium sp. nov., Isolated from
Subgingival Dental Plaque

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ABSTRACT A new *Treponema* species, for which we propose the name *Treponema medium*, was isolated from subgingival plaque from an adult with periodontal disease. The morphological characteristics, differential biochemical characteristics, and protein profiles on sodium dodecyl sulfate–polyacrylamide gel electrophoresis gels of this organism are described. The guanine-plus-cytosine content of the DNA of *T. medium* is 51mol%. The levels of DNA–DNA relatedness of the new species to other *Treponema* species, including *Treponema denticola*, *Treponema vincentii*, *Treponema socranskii*, *Treponema pallidum*, *Treponema phagedenis*, are less than 30%. A phylogenetic analysis based on 16S rRNA sequences distinguished the new *Treponema* strain from strains belonging to previously described *Treponema* species. The type strain of *T. medium* is strain G7201.

抄録 歯根膜疾患の成人の歯肉下の歯垢から、新種の *Treponema* 属細菌である *Treponema medium* を分離した。形態学的性状、生化学的特性、SDS-PAGE による蛋白プロファイルについて検討した。*T. medium* の G+C 含量は 51mol%、既存の *Treponema* 属細菌と *T. medium* との DNA 相同性は 30% 以下であった。16S rRNA 遺伝子塩基配列による系統解析により、新種の分離株は *Treponema* 属に分類された。

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