

梅毒トレポネマおよびライタートレポネマの リボソーム RNA 遺伝子の構成

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Organization of the ribosomal RNA genes in *Treponema phagedenis* and *Treponema pallidum*.

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ABSTRACT The genomic DNA fragment which contains ribosomal RNA (rRNA) genes for *Treponema phagedenis* was cloned into bacteriophage vector lambda EMBL3. A restriction map of the fragment was constructed and the organization of the rRNA genes was determined. The fragment contained at least one copy of the 16S, 23S and 5S sequences and the genes are arranged in the order 16S-23S-5S. Southern hybridization using radiolabeled rRNA gene probes to genomic DNA from *T. phagedenis* strain Reiter and *T. pallidum* strain Nichols showed that organisms have two radioactive fragments which hybridize to the probes in their genome. These results suggest that both pathogenic and non-pathogenic strains of *Treponema* may carry at least two sets of rRNA genes on their chromosomes.

抄録 梅毒病原体のリボソーム RNA 遺伝子の構成を調べ、大腸菌等に一般的に見られる構成であること報告した。

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