レプトスピラにおけるリボソームRNA遺伝子のリンケージ

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Linkage of ribosomal RNA genes in *Leptospira*.

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ABSTRACT Wedetermined the linkage of 16S, 23S, and 5S rRNA genes in several strains of *Leptospira* and *Leptonema* by DNA－DNA hybridization. Almost all the hybridizations in all leptospires used in these experiments gave two radioactive bands and the results strongly suggest that the number of the 16S and the 23S rRNA gens in those strains is two, respectively. In contrast with the larger rRNAs, the number of 5S rRNA gene was different. In the strains of leptospires, *L. biflexa*, which were non－parasitic, there are two gene for 5S rRNA, whereas only one gene for 5S rRNA is crried in *L. interrogans*, which were originally isolated as parasitic. Southern hybridization experiments suggest that those rRNA genes are interspersed on the leptospiral chromosome.

抄録 細菌のリボソームRNA遺伝子はクラスターを形成しておりまとめて転写される。しかしながらレプトスピラではこれらの3種の全てのリボゾームRNA遺伝子はその染色体上の分散して存在し，このユニークな遺伝子構成はレプトスピラ科の性質である事を明らかにした。

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