

日本においてヤマトマダニより分離された ボレリアのリボソームRNA遺伝子の構成

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Organization of ribosomal RNA genes in *Borrelia burgdorferi* *sensu lato* isolated from *Ixodes ovatus* in Japan.

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ABSTRACT *Borrelia burgdorferi sensu lato* was obtained from adult ixodid ticks, *Ixodes ovatus*, collected in Nagano, Japan, and was named NT112. The genomic DNA was digested with enzymes, electrophoresed, blotted and hybridized with rRNA gene probes obtained from *B. burgdorferi sensu strict* B31. The results showed that the borrelial chromosome contains a single *rrs* (16S rRNA gene) sequence and two copies of *rrl/rrf* (23S/5S rRNA genes) sequences. The *rrl/rrf* genes were tandemly repeated at intervals of 3.2kb and were located separately from the *rrs* gene on the genome. Our findings indicate that the organization of rRNA genes in *Borrelia* from *I. ovatus* ticks is identical to that of *B. burgdorferi sensu strict*.

抄録 ヤマトマダニ分離ボレリアのリボソームRNA遺伝子構成を調べ、ライム病ボレリアと同様に23S/5SリボソームRNA遺伝子がタンデムに2回繰り返しており、16SリボソームRNA遺伝子とは離れて存在していることを報告した。