

ライム病ボレリアにおけるリボソーム RNA 遺伝子の繰り返し配列

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**Tandem repeat of the 23S and 5S ribosomal RNA genes in
Borrelia burgdorferi, the etiological agent of Lyme disease.**

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ABSTRACT The DNA fragments containing the *rrl* and *rrf* genes were subcloned from a EMBL3 recombinant phage of *Borrelia burgdorferi* strain B31 into pUC18 and were characterized by restriction map of the fragments was constructed and the organization of the genes was determined. The genomic hybridization using the gene probes from *B.burgdorferi* showed that there are two sets of *rrl/rrf* genes in that genome. The results also revealed the important fact that the gene sets are repeated directly by 3.2-kb long. This is the first report of this remarkable feature in the organization of the eubacterial rRNA genes.

抄録 ライム病ボレリアの 23S/5S リボソーム RNA 遺伝子がタンデムに二回繰り返した, 他の細菌には全く例のない構成を有することを報告した。