ヤマトマダニより分離されたボレリアの性状について

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Characterization of *Borrelia* species isolated from ixodid ticks, *Ixodes ovatus*.

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ABSTRACT Thirty-two *Borrelia* isolates were obtained from the adult stage of ixodid ticks, *Ixodes onatus*, collected in various localities in Japan. Borrelial isolates were cultivated and analyzed by polyacrylamide gel electrophoresis, with monoclonal antibodies, by pulsed field gel electrophoresis, and by genomic Southern hybridization. All borrelial isolates showed similar protein profiles and monoclonal antibody reactivities, while plasmid profiles were rather diverse. Genomic hybridization using rRNA gene probes demonstrated the genetic similarities of those isolates. We found no significant differences among the borrelial isolates tested, and the restriction fragment length polymorphism patterns of *I. onatus* isolates were quite distinct from those of borrelial strains associated with Lyme disease. Therefore, the isolates of *Borrelia* obtained from *I. onatus* were thought to fall into different genospecies.

抄録 日本各地において捕獲されたヤマトマダニより分離されたボレリア 3 2 株の遺伝学的性状は均一であり、ライム病ボレリアの性状とは極めて異なっているので、この種のマダニの保有するボレリアはライム病ボレリアとは別種であることを報告した。

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