

论著

七种媒介硬蜱基因组随机扩增多态性DNA分析

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收稿日期 修回日期 网络版发布日期 接受日期

摘要

目的 研究7种硬蜱的基因组随机扩增多态性DNA(RAPD)以及种间的遗传距离。方法 用5条不同的多聚核苷酸单链引物对草原革蜱、森林革蜱、青海血蜱、台湾血蜱、刻点血蜱、龟形花蜱、卵形硬蜱7种硬蜱基因组DNA进行随机扩增,分析DNA图谱并计算7种硬蜱间的遗传距离。结果 7种硬蜱基因组随机扩增产物均有各自独特的DNA条带,种间的平均遗传距离为0.71。结论 RAPD技术可以区分这7种硬蜱。

关键词 [蜱](#) [基因组](#) [随机扩增多态DNA技术](#) [变异\(遗传学\)](#) [聚类分析](#)

分类号

Random Amplified Polymorphic DNA Analysis of the Genomes Among 7 Species of Ticks

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Abstract

Objective To study genomic polymorphic DNA and genetic distance of 7 species of ticks. Methods Ticks used in this study were Dermacentor nuttalli, D.silvarum, Haemaphysalis qinghaiensis, H.formosensis, H.punctata, Amblyomma testudinarium, and Ixodes ovatus. DNA extracts of the 7 species of ticks were amplified by random amplified polymorphic DNA (RAPD) and PCR technique using 5 primers with different arbitrary single chain polynucleotide sequences. DNA fingerprint maps were analyzed and the genetic distance among 7 species of ticks were counted. Results The amplified products of the 7 species of ticks by RAPD all showed their specific DNA band. The average genetic distance among them was 0.71. Conclusion RAPD can differentiate the 7 species of ticks.

Key words [Ticks](#) [Genome](#) [Random amplified polymorphic DNA technique\(RAPD\)](#) [Variation \(Genetics\)](#) [Cluster analysis](#)

DOI:

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