

论著

我国内脏利什曼病山丘疫区与平原疫区利什曼原虫SSUrDNA多变区序列分析

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摘要

[目的] 分析我国内脏利什曼病 (VL) 山丘疫区与平原疫区利什曼原虫 (L. d) 分离株小亚基核糖体 DNA (SSUrDNA) 多变区的序列差异。 [方法] nDNA进行PCR扩增, 将扩增出的SSUrDNA基因的特异片段克隆于 pGEMR TEasyVector上, 采用通用引物M 13进行PCR扩增, 全自动测序仪测序。 [结果] 序列分析显示, 扩增的 5株利什曼原虫SSUrDNA序列大小均为 392bp; 序列差异均发生在两个独特序列区 (UQ I 和UQ II); 山丘疫区L. d甘肃分离株和四川分离株均在UQ II区上有 2个相同的碱基突变, L. d甘肃分离株UQ I区上有 1个碱基突变; 无移码突变。 [结论] 山丘疫区分离株与平原疫区分离株之间的碱基序列有差异, 平原疫区L. d山东分离株与婴儿利什曼原虫 (L. infantum) 的碱基序列相同

关键词 [利什曼原虫](#) [小亚基核糖体核酸基因](#) [聚合酶链反应](#) [克隆](#) [序列分析](#) [基因变异](#)

分类号

SEQUENCE ANALYSIS OF SSU rDNA VARIABLE REGIONS OF LEISHMANIA ISOLATES FROM HILLY FOCI AND PLAIN FOCI OF CHINA

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Abstract

[Objective] To analyze the sequence difference of the SSU rDNA variable regions of Leishmania isolates from hilly foci and plain foci of China. [Methods] Specific SSU rDNA fragments from nuclear DNA of five Leishmania species and isolates were amplified by PCR. The amplified DNA fragments were cloned into pGEM R-T Easy vector. The specific fragments were sequenced by the automated DNA sequencer. [Results] Sequence analysis showed that the amplified DNA fragments of five Leishmania species and isolates were all 392 bp in length, point mutations were located in the two unique sequence (UQ- I and UQ- II); L. d. SC10 and L. d. GS7 had two same point mutations in UQ- II, only L. d. GS7 had one in UQ- I; no insertion/deletion. [Conclusion] Sequence difference of the SSU rDNA variable region existed between Leishmania isolates from hilly foci and plain foci; The sequences of the SSU rDNA variable regions of L. d. SD2 isolate and L. infantum were identical.

Key words [Leishmania](#) [small subunit ribosomal DNA](#) [polymerase chain reaction](#) [cloning](#) [sequence analysis](#) [genetic variation](#)

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