

论著

山丘疫区杜氏利什曼原虫核糖体基因内转录间隔区的克隆及序列分析

田玉,陈建平*,胡孝素

四川大学华西基础医学与法医学院寄生虫学教研室,成都 610044

收稿日期 修回日期 网络版发布日期 接受日期

摘要

目的 构建我国山丘疫区杜氏利什曼原虫分离株前鞭体核糖体DNA(rDNA)内转录间隔区(ITS)片段克隆,并进行测序及同源性分析。方法 提取杜氏利什曼原虫前鞭毛体DNA进行PCR扩增,将扩增出rDNAITS片段克隆入pMD18 Tvector上,双脱氧链末端终止法测序。结果 扩增出约 1000bp的rDNAITS片段。测序结果表明山丘疫区的2株利什曼原虫L.d.SC10和L.d.6分别为1027bp和1028bp。序列分析结果表明,L.d.SC10和L.d.6有一定差异。结论 获得了我国山丘疫区杜氏利什曼原虫分离株L.d.SC10和L.d.6的前鞭体rDNAITS序列。

关键词 [利什曼原虫](#) [内转录间隔区](#) [基因克隆](#) [序列分析](#)

分类号

Cloning and Sequence Analysis of the Ribosomal DNA ITS Gene of *Leishmania donovani* Isolates from Hill Foci of China

TIAN Yu, CHEN Jian ping*, HU Xiao su

Department of Parasitology, School of Preclinical and Forensic Medicine, Sichuan University, Chengdu 610044, China

Abstract

Objective To determine the nucleotide sequence of the ITS (internal transcribed spacer) gene of *Leishmania donovani* isolates from hill foci (L.d.SC10 and L.d.6), and to find out the difference of the gene sequences between the two isolates. Methods Specific ITS fragments from nuclear DNA of two *Leishmania* isolates were amplified by PCR, cloned into pMD18 T vector, and finally sequenced by the dideoxy chain termination method. Results Sequence analysis showed that the amplified DNA fragments of the two isolates were 1 027 bp (L.d.SC10) and 1 028 bp (L.d.6) respectively, showing a sequence difference. Conclusion Sequence difference exists between the *Leishmania* isolates L.d.SC10 and L.d.6 from hill foci in China.

Key words [Leishmania donovani](#) [ITS](#) [Gene cloning](#) [Sequence analysis](#)

DOI:

通讯作者

作者个人主页

田玉;陈建平*;胡孝素

扩展功能

本文信息

- ▶ [Supporting info](#)
- ▶ [PDF \(271KB\)](#)
- ▶ [\[HTML全文\]\(0KB\)](#)
- ▶ [参考文献\[PDF\]](#)
- ▶ [参考文献](#)

服务与反馈

- ▶ [把本文推荐给朋友](#)
- ▶ [加入我的书架](#)
- ▶ [加入引用管理器](#)
- ▶ [复制索引](#)
- ▶ [Email Alert](#)
- ▶ [文章反馈](#)
- ▶ [浏览反馈信息](#)

相关信息

- ▶ [本刊中 包含“利什曼原虫”的 相关文章](#)
- ▶ 本文作者相关文章
- [田玉](#)
- [陈建平](#)
- [胡孝素](#)