



广西10例人芽囊原虫基因型和同工酶谱的研究

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Genotype Analysis and Isoenzyme Patterns of Ten Isolates of *Blastocystis hominis* from Guangxi

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摘要

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摘要 目的 分析广西10个人芽囊原虫 (*Blastocystis hominis*) 分离株基因型, 及其乳酸脱氢酶 (LDH) 和酯酶 (EST) 的同工酶谱特征。方法 从感染者粪便中分离到的10个人芽囊原虫 (BhGX1~BhGX10), 体外培养并提取基因组DNA。用已知的7对特异性序列标记位点 (sequence tagged sites, STS) 引物PCR扩增, 来鉴定基因型。采用十二烷基硫酸钠-聚丙烯酰胺凝胶电泳 (SDS-PAGE), 分别进行乳酸脱氢酶和酯酶2种同工酶染色, 比较分析10个分离株的酶谱。结果 10个人芽囊原虫分离株中有8个为基因 I 型; 另外2个分离株 (BhGX4和BhGX7) 经7对引物扩增均为阴性, 为未知基因型。10个人芽囊原虫分离株在LDH谱中共出现10条酶带, 常见酶带为Rm37、Rm49、Rm57、Rm68和Rm92; 在EST谱中共出现12条酶带, 其中Rm14、Rm18、Rm23、Rm27、Rm45、Rm50和Rm77酶带较常见。各分离株之间的LDH和EST同工酶谱均存在差异。结论 广西10个人芽囊原虫分离株以基因 I 型为主, 但各分离株之间的LDH和EST同工酶谱存在差异。

关键词: 人芽囊原虫 基因型 同工酶 电泳

Abstract: Objective To analyze genotypes and lactate dehydrogenase (LDH) and esterase(EST) patterns in 10 isolates of *Blastocystis hominis* collected from Guangxi. Methods Ten *B. hominis* isolates (BhGX1~BhGX10) were obtained from the fecal specimens of patients and cultivated in vitro, and then the genomic DNA was extracted. The isolates were genotyped by PCR using seven pairs of known sequenced-tagged site (STS) primers. Isoenzyme patterns of LDH and EST were investigated by SDS-PAGE. Results Out of the 10 isolates, 8 were identified as genotype I and the genotypes of the other two (BhGX4 and BhGX7) were unknown which were negative to all the STS primers. Among the ten isolates, 10 LDH bands were found, more with Rm37, Rm49, Rm57, Rm68 and Rm92. 12 bands showed in EST patterns: Rm14, Rm18, Rm23, Rm27, Rm35, Rm41, Rm45, Rm50, Rm55, Rm68, Rm77 and Rm82. Difference existed with the LDH and EST patterns among the isolates. Conclusion Genotype I is the major one in the 10 *B. hominis* isolates from Guangxi, and the isolates show different isoenzyme patterns for LDH and EST.

Keywords: *Blastocystis hominis* Genotype Isoenzyme Electrophoresis**引用本文:**

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