

贵州地区汉族人群THO1、TPOX、CSF1PO基因座的遗传多态性 Genetic Polymorphisms of STR Loci THO1、TPOX、CSF1PO in Guizhou Han Population

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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

为了解贵州地区汉族群体中THO1、TPOX、CSF1PO基因座的遗传多态性, 获得这3个基因座的群体遗传学数据和法医学相关数据。采自贵州地区汉族无关个体的110份EDTA抗凝血样用Chelex法提取DNA, 应用PCR复合扩增技术扩增样本后, 聚丙烯酰胺凝胶电泳分型。对3个STR基因座的等位基因频率进行了调查分析, 并与其他汉族人群的等位基因频率进行了比较。在贵州汉族群体中, 3个基因座的基因型分布符合Hardy-Weinberg平衡。3个STR基因座总个体识别率为0.9986, 累积非父排除率为0.832。表明这3个基因座在法医学个体识别及亲子鉴定中是很有价值的遗传标记系统。

Abstract: To understand the genetic polymorphism at THO1, TPOX, CSF1PO STR loci for Han population in Guizhou Province, and construct a preliminary database, EDTA-blood specimens were collected from the 110 unrelated individuals in Han population from Guizhou. The DNA samples were extracted with Chelex method and amplified by multiplex polymerase chain reaction. The PAGE was used to type the PCR products. The allele frequencies were compared with other Han populations. The genotype distributions of THO1, TPOX and CSF1PO were in accordance with Hardy-Weinberg equilibrium. The combined PD and PE were 0.9986 and 0.832 respectively. All of the three loci in this study provide useful marker for forensic paternity test and individual identification.

关键词 [短串重复序列](#) [聚合酶链反应](#) [遗传多态性](#) Key words [short tandem repeats\(STR\)](#) [PCR](#) [genetic polymorphism](#)

分类号

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