

内蒙古蒙古族人群DYS413基因座的多态性分布The Polymorphism Distribution of DYS413 locus in Mongolians(Inner Mongolia)

王永在, 杨国香², 王艳¹, 负克明¹, 郭大玮¹, 王英元¹ WANG Yong-Zai, YANG Guo-Xiang, WANG Yan, YUN Ke-Ming, GUO Da-Wei, WANG Ying-Yuan

DYS413(YCAIII) 基因座; STR; 单倍型; 法医学; 人类遗传学 Key word: DYS413(YCAIII) locus; STR; haplotype; Forensic medicine; Population genetics

收稿日期 修回日期 网络版发布日期 接受日期

摘要

为调查DYS413(YCAIII) 基因座在内蒙古蒙古族人群中的分布情况, 为其应用于法医学和人类遗传学研究提供依据, 采集了120例内蒙古蒙古族男性无关个体静脉血, EDTA抗凝, 用酚-氯仿法抽提DNA, PCR扩增DYS413基因座, 6%非变性聚丙烯酰胺凝胶电泳, 1%硝酸银(AgNO₃) 染色分型。在120例内蒙古蒙古族男性人群中共检出30个不同的单倍型, 其频率介于0.0007至0.01361之间, 其HD(单倍型多样性)值为0.94054。表明DYS413基因座在内蒙古蒙古族人群中分布好, 对法医学和人类遗传学研究具有重要价值。Abstract: In order to provide the evidence for the application of DYS413(YCAIII) locus in forensic medicine and population genetics by investigating its polymorphism in the Mongolians lived in the Inner Mongolia Autonomous Region, China, to collect 120 unrelated male Mongolians' venous blood, who lived in the Inner Mongolia Autonomous Region, and the blood is anticoagulant with EDTA, then to extract DNA by using the method of phenol-chloroform and amplify the DYS413 locus with PCR. The products were separated with 6% non-denatured polyacrylamide/bisacrylamide gels(19:1) electrophoresis and stained with 1% nitrate of silver(AgNO₃). There are total 30 different haplotypes in Mongolians, the frequencies are from 0.0007 to 0.01361, the HD(haplotype diversity) is 0.94054. It shows that DYS413 locus is high valuable in the application of forensic medicine and population genetics.

关键词 [1. 山西医科大学法医学院物证教研室 太原 030001](#) [2. 内蒙古医院检验科 呼和浩特 100017](#) [1. Department of Forensic Biology School of Forensic Medicine Shanxi Medical University Taiyuan 030001 China](#) [2. Department of Laboratory Inner Mongolia Hospital Huhehot 100017 China](#)

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Abstract

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