

新Y-STR DYS605在山西汉族人群中的多态性分布 Study of Polymorphism at New Y-STR DYS605 in a Chinese Han Population of Shanxi

张更谦1, 王艳1, 张艳霞2, 徐晓莉1, 邢小平1, 王英元1, 负克明1 ZHANG Geng-Qian1, WANG Yan1, ZHANG Yan-Xia2, XU Xiao-Li1, XING Xiao-Ping1, WANG Ying-Yuan1, YUN Ke-Ming1
1. 山西医科大学法医物证教研室, 太原 030001; 2. 河北省公安厅刑侦局技术处, 石家庄 050051
1. School of Forensic Medicine, Shanxi Medical University, Taiyuan 030001, China; 2. Hebei public security bureau, Shijiazhuang, 050051, China

收稿日期 修回日期 网络版发布日期 接受日期

摘要

为了应用更多的Y染色体特异性STR基因座以用于法医学和人类遗传学研究, 本文用PCR结合PAGE技术检测128例山西汉族无关男性DYS605等位基因分布状况。结果显示: 山西地区汉族男性DYS605基因座观察到22, 21, 20, 19, 18共5个等位基因, 基因频率分别为0.0156; 0.1797; 0.4531; 0.2891; 0.0625。等位基因20和19之间的电泳距离在非变性胶上非常接近, 要有足够的电泳距离才能区分。测序表明该基因座包括3个串联重复区, 其中一个为可变重复区。20例女性DNA未发现扩增产物。Abstract: We study the polymorphism at DYS605, a new tetranucleotide Y-STR locus, in a Chinese Han population of Shanxi to meet the need of more genetic markers in forensic practice and genetic analysis. DNA were extracted from 128 unrelated male venous blood, and amplified using GDB primers. PCR products were detected using non-denaturing polyacrylamide gel electrophoresis and silver staining. Five alleles named 22, 21, 20, 19, 18 were observed with frequency of 0.0156; 0.1797; 0.4531; 0.2891; 0.0625. PCR products were not found in female DNA. Using a long enough gel for a long electrophoresis time is strongly encouraged because the rung between allele 20 and allele 19 is smaller than expected. Allele sequences show that the repetitive units of DYS605 were composed with the variant units and non-variant units.

关键词 [法医学](#) [Y染色体短串联重复序列](#) [遗传多态性](#) [山西](#) [汉族人](#) [DYS605](#) Key words [forensic science](#) [Y-STR](#) [Shanxi](#) [Chinese Han population](#) [DYS605](#)

分类号

扩展功能

本文信息

- ▶ [Supporting info](#)
- ▶ [PDF\(0KB\)](#)
- ▶ [\[HTML全文\]\(0KB\)](#)
- ▶ [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“法医学”的相关文章](#)
- ▶ 本文作者相关文章

- [张更谦](#)
- [王艳](#)
- [张艳霞](#)
- [徐晓莉](#)
- [邢小平](#)
- [王英元](#)
- [负克明ZHANG Geng-Qian](#)
- [WANG Yan](#)
- [ZHANG Yan-Xia](#)
- [XU Xiao-Li](#)

Abstract

Key words

DOI:

通讯作者