

云南澜沧拉祜族HLA-DRB1基因多态性研究 Determination of HLA-DRB1 Gene Polymorphism by PCR-SBT in Lahu Ethnic Group of Yunnan,China

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摘要 采用我们改进的高分辨率基于内含子的PCR-SBT分型方法, 首次检测云南拉祜族HLA-DRB1基因多态性。在55例拉祜族个体中共检出16种HLA-DRB1等位基因, 最常见的DRB1等位基因是HLA-DRB1*12021、09012、15011, 基因频率分别为30.909%、15.455%、13.636%, 共占拉祜族可检出等位基因的60%, 其中DRB1*0413、11081、1312、1418、1504首次在我国人群中检出, 并且在世界各地人群中也比较罕见。对拉祜族和世界各地人群的HLA-DRB1频率进行了比较, 分析了HLA-DRB1等位基因在各人种中的分布特点, 并用Neighbor-joining法进行了聚类分析。比较分析的结果显示拉祜族明显属于中国南方族群, 未显示出其族源来自北方的痕迹。对此遗传数据和民族学、历史学研究的矛盾, 做了初步的分析。

Abstract:The HLA-DRB1 gene polymorphism in Lahu ethnic of Yunnan,China was the first time investigated using high resolution PCR-SBT method,which is based on sequences of HLA-DRB1 Intron 1 and Intron 2 and with our improvement.From 55 individuals of Lahu ethnic 16 DRB1 alleles were detected.The three most common alleles were HLA-DRB1*12021(30.909%),09012(15.455%),15011(13.636%),and they covered 60% of the total alleles detected from Lahu ethnic.HLA-DRB1*1413,*11081,*1312,*1418,*1504 were the first time detected in the Chinese,and were very rare in worldwide ethnic groups.With comparison of HLA-DRB1 gene frequencies between various ethnic groups we analyzed the characteristics of HLA-DRB1 gene distribution in worldwide populations,and constructed the phylogenetic tree by Neighbor-joining method and Nei measure of genetic distance.The result showed Lahu ethnic obviously belong to the Chinese South ethnic groups and can't trace its origin from northern groups with the HLA-DRB1 genetic data.The preliminary explanations about the contradiction were given in this paper.

关键词 云南 拉祜族 PCR-SBT 分型 HLA-DRB1 多态性 Key words Yunnan Lahu ethnic PCR-SBT typing HLA-DRB1 polymorphism

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