



药用峨眉野连遗传多样性的RAPD分析

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中文摘要: 目的: 对峨眉野连进行遗传多样性研究。方法: 通过RAPD技术对10个野生峨眉野连居群共110个个体进行遗传多样性分析。结果: 用14个随机引物共扩增出132条清晰条带, 其中98条具多态性, 平均多态性位点比率为74.24%, Nei's s 基因多样性指数H=0.286 3, Shannon's s 多样性指数H=0.362 4, 遗传分化指数G_{st}=0.230 5, 遗传距离和遗传一致度分别为0.193 1-0.524 5, 0.501 6-0.884 3。结论: 峨眉野连种水平上具有较高的遗传多样性, 遗传变异主要存在于居群内部, 遗传多样性与地理关系表现出明显的相关性, RAPD可以作为研究遗传多样性及遗传分化的有效标记。

中文关键词: 峨眉野连 遗传多样性 RAPD 聚类分析 遗传分化

RAPD analysis for genetic diversity of medicinal plant *Coptis omeiensis*

Abstract: Objective: To discuss the genetic diversity of *Coptis omeiensis*. Method: The genetic diversity of 110 individuals from 10 populations was analyzed by RAPD. Result: 14 primers were selected to produce highly reproducible RAPD bands. Among 132 amplified bands, 98 showed polymorphism, the percentage of polymorphic bands reached to 74.24%. Nei's gene diversity index (H) was 0.286 3, Shannon's information index (I) was 0.362 4, G_{st} was 0.230 5. The genetic distance coefficient and the similarity were 0.193 1-0.524 5 and 0.501 6-0.884 3, respectively. Conclusion: There exists a held high genetic diversity in *C. omeiensis* and the majority of genetic variation occurs in the populations. By cluster analysis, the geographical distribution is very obvious. The RAPD marker can be used for the analysis of the genetic diversity and genetic variation of *C. omeiensis*.

Keywords: *Coptis omeiensis* genetic diversity RAPD cluster analysis genetic variation

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