

研究快报

全国7省本地早橘基因组间相关性的AFLP分析

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收稿日期 2005-6-14 修回日期 2005-11-4 网络版发布日期 2006-3-7 接受日期

摘要

采用AFLP分子标记对全国7省的12份本地早橘资源进行遗传多样性分析。使用了28对选择性引物组合, 共扩增出882个遗传位点, 其中192条(21.8%)为多态性位点; 以黄岩本地早橘为对照, 各地的本地早橘的多态性位点数不多(3.5%~10.54%), 且来源于浙江省外的本地早橘样品的AFLP多态性位点数要多于浙江省内的, 说明区域生态差异对遗传多样性有着一定的影响。对12个样品进行聚类分析结果表明, 样品间的遗传距离最大为0.229, 说明差异不大, 引种后的变异率不高。这些结果有助于揭示其遗传变异与生态条件的关系, 对柑橘品种的遗传改良提供参考意见。

关键词 [本地早橘; 种质资源; 遗传多样性; AFLP; 聚类分析](#)

分类号 [S666](#)

Genetic Diversity of *Citrus Succosa* Hort. Ex Tanaka from Seven Provinces as Revealed by AFLP Analysis

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Abstract

Using 28 selected primer combinations, 12 accessions of Bendizao tangerine from seven provinces were investigated by AFLP analysis. A total of 882 genetic sites were detected, among which 192 were polymorphic. Using Huangyan Bendizao as contrast, the polymorphic sites of the other 11 accessions from seven provinces are not very high (3.5%~10.54%), and the number of different sites between accessions from other provinces is higher than that from Zhejiang province, which indicates that the ecological difference can partially contribute the formation of the genetic diversity. Genetic distance and dendrogram showed considerably close relatedness among the 12 accessions, and the max genetic distance was 0.229. The genetic analysis of the 12 accessions from seven provinces can provide useful information for the relationship between the formation of genetic variation and environmental difference and can facilitate the genetic improvement of this cultivar.

Key words [Citrus succosa hort. Ex Tanaka](#) [germplasm resources](#) [AFLP](#) [genetic diversity](#) [cluster analysis](#)

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