



忍冬种质资源遗传多样性的AFLP分析

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中文摘要:目的: 研究国内主产区忍冬种质资源的遗传多样性, 探讨它们之间的亲缘关系, 并为新品种选育提供参考。方法: 选用6对引物组合对13个忍冬种质进行AFLP分析, 利用DPS V3.01软件计算各品种的遗传距离, 按UPGMA法进行聚类分析。结果: 共获得435条扩增产带, 其中191条具有多态性, 平均多态检出率为43.9%。聚类结果表明, 同一道地产区的栽培品种亲缘关系较近, 山东种质基于AFLP标记的分类结果与形态特征基本一致。结论: AFLP分子标记揭示出忍冬种内存在丰富的遗传多样性, 为忍冬种质资源的合理利用及品种选育提供了分子水平的理论依据。

中文关键词: 忍冬 AFLP 种质资源 遗传多样性

Genetic diversity of germplasm resources of *Lonicera japonica* by AFLP analysis

Abstract: Objective: This study aimed to analyze the genetic diversity and genetic relationship of germplasm resources of *Lonicera japonica* in main producing areas of China and provide reference for developing new varieties of *L. japonica*. **Method:** Using 6 primer combinations, 13 germplasm of *L. japonica* were analyzed by AFLP marker. The genetic distance was worked out by using DPS V3.01 software, and the cluster was conducted based on UPGMA. **Result:** A total of 435 bands were obtained including 191 polymorphic ones. The average polymorphic frequency was 43.9%. Cluster analysis showed that the relationship of cultivated variety from the same genuine area was near, and the classification result based on AFLP marker of germplasm of *L. japonica* from Shandong province was basically consistent with those on their morphological character. **Conclusion:** AFLP marker can indicate the abundant genetic diversity of *L. japonica* and provide theoretical evidence for reasonable utilization and breeding new cultivar of *L. japonica* in molecular level.

keywords: *Lonicera japonica* AFLP germplasm resources genetic diversity
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