

植物生产层

野生马蹄金种质资源的RAPD鉴别

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摘要:

采用RAPD分子标记技术, 从100个随机引物中筛选出多态性强、重复性好且稳定性高的引物22个, 对西南区16份抗性较强、坪用价值较高的马蹄金*Dichondra repens*材料进行扩增, 共扩增出269条带, 其中多态性带246条, 多态性比率为91.45%, 表明野生马蹄金植物种间有丰富的遗传多态性。采用UPGMA法聚类分析, 在遗传距离0.73处把马蹄金材料分为4类, 部分地理上相近的马蹄金种质资源被聚在了不同的大类中, 分类结果能将优异马蹄金材料区分开来, 与景观价值评定较吻合。

关键词: 野生马蹄金 种质资源 遗传关系 RAPD

RAPD analysis based identification of *Dichondra repens* germplasm resources

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Abstract:

RAPD molecular markers were used to detect the genetic diversity among 16 materials of *Dichondra repens* with 22 primers which were selected from 100 random primers. The results indicated that there were 246 polymorphic loci out of totally 269 loci and the polymorphic rate was 91.45%. Genetic distance of *D. repens* was calculated by Nei method and it ranged from 0.0336 to 0.6097. The RAPD dendrogram suggested that 16 materials of *D. repens* could be divided into 3 groups at 0.74 of genetic distance, which could screen the excellent materials out and it was similar with the result of landscape evaluation.

Keywords: wild *Dichondra repens* germplasm resources genetic relationships RAPD

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