

作物遗传育种·生物技术

36份不同居群半夏同工酶研究^{*}

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摘要 采用聚丙烯酰胺凝胶不连续垂直板电泳系统,测定了36份不同居群半夏的过氧化物酶(POD)、酯酶(EST)及苹果酸脱氢酶(MDH)同工酶酶谱。结果表明:所有供试材料在3个同工酶系统中均有半夏物种的共同特征谱带,同时又蕴涵着丰富的多态性。POD酶、EST酶酶谱存在明显差异,酶带数分别为20和24条。采用DPS数据分析软件对这两类酶带谱进行聚类分析,该结果能够对供试材料的细胞学研究给予合理解释。

关键词 [半夏](#); [同工酶](#); [遗传多样性](#); [聚类分析](#)

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Study on the Isozymes of 36 Different *Pinellia ternate* Populations

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Abstract

Three isozymes (POD, EST and MDH) of 36 different *Pinellia ternate* populations were studied by means of polyacrylamid gel electrophoresis. The result showed that the basic characteristics of the isozyme bands were observed and the polymorphism was also detected with all isozymes. The enzyme spectrums of POD and EST were significantly different and the numbers of bands were 20 and 24 respectively. By cluster analysis to the enzyme spectrums of POD and EST with DPS software and cluster figures, the cytological study of different *Pinellia ternata* populations could be explained.

Key words [Pinellia ternata](#) [isozyme](#) [genetic diversity](#) [cluster analysis](#)

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