

粉蓝烟草与矮牵牛的属间体细胞杂种植株的再生

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收稿日期 修回日期 网络版发布日期 接受日期

摘要 粉蓝烟草与矮牵牛的叶肉原生质体经聚乙二醇融合剂处理后, 培养在D2a培养基上, 得到了3种形态的愈伤组织。21块中间类型愈伤组织中有9块分化出苗。其中一块分化的幼苗, 外观形态不同于双亲, 另一块愈伤组织分化的苗一直未分化根。过氧化物同工酶分析和细胞学观察表明它们有双亲的特性。

关键词

分类号

Regeneration of Somatic Hybrid Plants between *Nicotiana glauca* and *Petunia hybrida*

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Abstract

The mixture of mesophyll protoplasts of *N. glauca* and *P. hybrida* was treated by PEG solution and was then cultured in D2 medium. Three types of calli were obtained: yellowish loose, green compact and intermediate yellow-green. The shoots from nine out of twenty one intermediate calli were differentiated, and all but one were differentiated roots.

By the analysis of peroxidase isozyme it was indicated that the zymogram of peroxidase isoenzyme of these regenerated plants includes enzyme band of both parents.

Cytological observation of root tip also showed that the regenerated plants were aneuploids.

Key words

DOI:

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扩展功能

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