

园艺园林科学

朱砂根愈伤组织分化根的研究

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摘要:

【研究目的】为了研究朱砂根愈伤组织分化根的能力, 寻求高频率发生根的新途径, 【方法】将不同类型的愈伤组织用于根分化的研究, 并制成石蜡切片进行细胞学观察, 比较不同类型愈伤组织分化根的能力和不同培养基及光照条件对根分化的影响。【结果】分化试验和细胞学观察结果均表明: 淡黄色颗粒状和绿色块状愈伤组织较易分化根。【结论】以降低无机盐浓度的1/2MS为基本培养基的培养基中根分化率最高, 而且不添加任何激素, 附加3%蔗糖就可以使淡黄色颗粒状愈伤组织分化丛状根; 弱光有利于愈伤组织根的分化。

关键词: 石蜡切片

A study on root differentiation from callus in *Ardisia crenata*

DENG Su-Fang, ,

Abstract:

【OBJECTIVE】In order to investigate the root differentiation capability of *Ardisia crenata* callus, seek a new way of high frequency of root regeneration, 【METHOD】different types callus of *Ardisia crenata* were used in root differentiation test and made into paraffin sections for cytology observation, for root differentiation capability compare of different types callus and the effects of different medium and light conditions on root differentiation. 【RESULTS】The results both showed that yellow granular callus and yellowish-green nubbly callus can differentiate root easier than others. 【CONCLUSION】In the medium of 1/2MS as the basic medium, of which the concentration of inorganic salts had been reduced, root differentiation rate was the highest. The weak light was beneficial to rooting by comparison.

Keywords: Paraffin sections

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