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半夏组培苗丛枝菌根侵染过程研究

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中文摘要:目的: 探索半夏组培苗丛枝菌根菌侵染过程与特点。 方法: 将摩西球囊霉接种于半夏无菌组培苗,于不同时间取样,通过 迅速与丛枝菌根相互识别,形成共生体。

中文关键词:半夏 组培苗 摩西球囊霉 侵染 丛枝菌根形成

Infection progress of arbuscular mycorrhizae on tissue-cultured plantlets of Pinellia ternata

Abstract:Objective: To study the Arbuscular mycorrhizal (AM) formation progress and infection characteristics between tissue culture plantlets of Pinellia ternata and Glomus mosseae. Method: The tissue culture plantlets of P. ternata were inoculated with G. mosseae in Cornation of AM were sampled and observed with microscopy by staining. Result and Conclusion: The hyphae of G. mosseae began to penetrate the root epidemia after 10 days of inoculation. Lots of intracellular hyphae formed in cortex cells at the 15th day. Arbuscules started to form and there were some hyphae on the root at the 20th day. At the 25th day, many arbuscules formed and most as Arum type. Some arbuscles started to distingerate at the 30th day, and a few of vesteles occurred. Los of spores formed after 35 days, the 40th day, some vesseles began to decline. The hand section showed that the intercellular hyphae gradually formed in intercellular space, and the hyphae branched in cortex cells and occupied most cell lumen finally. It is expounded that P. ternata and G. mosseae could recognize each other quickly and form a symbiont system.

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