



牡荆内生真菌的分离与鉴定

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中文摘要:目的:探讨牡荆内生真菌类群在不同器官中分布的多样性及其与生态环境的关系。方法:利用PDA培养基进行牡荆内生真菌的分离,纯化,根据菌落的形态特征并结合真菌的5.8S和ITS序列进行菌株鉴定。结果:从牡荆中共分离到内生真菌97株,鉴定为6目8科10属12种,其中从野生牡荆中获得内生真菌60株,鉴定为6目7科9属9种,从栽培牡荆中获得内生真菌37株,为3目3科5属7种。结论:牡荆内生真菌具有多样性,不同地理环境和组织类型的牡荆内生真菌在数量和种群组成上存在差异。

中文关键词:牡荆 内生真菌 分离 鉴定

Isolation and identification of endophytic fungi from *Vitex negundo* var. *cannabifolia*

Abstract:Objective: The research aimed to investigate the endophytic fungal community of *Vitex negundo* var. *cannabifolia*, including the biodiversity from different organs and the correlations with habitations. Method: PDA medium was used to isolate and purify the endophytic fungi in *V. negundo* var. *cannabifolia*. The purified strains were identified by morphology together with similarity of 5.8S gene and internal transcribed spacer (ITS) sequence. Result: Ninety-seven strains of endophytic fungi were isolated from *V. negundo* var. *cannabifolia*. They were identified belonging to 12 species, 10 genera, 8 families and 6 orders, while 60 isolations identified into 9 species, 9 genus, 7 families and 6 orders were obtained from the wild plants and 37 belonging to 7 species, 5 genus, 3 families and 3 orders were from the cultivated ones. Conclusion: It indicated that the endophytic fungi in *V. negundo* var. *cannabifolia* were diverse, and there were some differences at quantity and species in different sites and organs of *V. negundo* var. *cannabifolia*.

keywords: *Vitex negundo* var. *cannabifolia* endophytic fungi isolation identification

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