

入侵植物与丛枝菌根真菌的相互作用

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Interactions between invasive plants and arbuscular mycorrhizal fungi: A review.

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摘要 入侵植物的入侵改变了入侵地生物群落的结构, 导致生物多样性的丧失. 丛枝菌根真菌 (AMF) 作为陆地生态系统中土壤微生物普遍的组成部分, 它的种类和组成能够影响入侵植物的生长表现. 这种真菌与寄主 (入侵植物) 特殊的关系也暗示了AMF能够影响入侵植物的入侵. 反之, 入侵植物的入侵同样也会影响AMF的群落结构和功能. 本文在简要总结我国入侵植物种类及其危害的基础上, 着重探讨了AMF与入侵植物入侵之间的关系, 即AMF对入侵植物入侵过程中的作用、入侵植物入侵后如何影响AMF以及两者之间的相互作用机制.

关键词: [入侵植物](#) [丛枝菌根真菌](#) [多样性](#) [相互作用](#) [保护生物学](#)

Abstract: The invasion of invasive plants changes the biological community structure in their invaded lands, leading to the biodiversity loss. As an important component of soil microorganisms in terrestrial ecosystem, arbuscular mycorrhizal (AM) fungi can affect the growth performance of invasive plants. This kind of specific relations between AM fungi and invasive plants also implies that AM fungi can affect plant invasion. On the other hand, the invasion of invasive plants can affect the community structure and function of AM fungi. This paper summarized the species and harms of invasive plants in China, and discussed the relationships between AM fungi and invasive plants invasion, including the roles of AM fungi in the processes of invasive plants invasion, the effects of the invasion on AM fungi, and the interactive mechanisms between the invasion and AM fungi.

Key words: [invasive plant](#) [arbuscular mycorrhizal fungi](#) [diversity](#) [interaction](#) [conservation biology](#)

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