

城市生态系统中AM真菌侵染与群落结构特征

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Colonization and community structural features of AM fungi in urban ecosystem: A review.

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摘要 丛枝菌根(AM)真菌作为土壤微生物的重要成员之一, 对城市生态系统可持续发展具有重要意义. 本文系统总结了城市生态系统中AM真菌着生状况和群落结构特点, 探讨了城市生态因子, 如人类行为、植被重建与维护、城市土壤状况等对AM真菌着生状况和群落结构的影响, 认为今后应加强城市生态系统中AM真菌群落结构与功能的研究, 如关键城市生态因子(如水资源匮乏、热岛效应等)改变AM真菌群落结构的效应与机制.

关键词: 城市生态系统 丛枝菌根(AM)真菌 侵染 物种多样性 群落结构

Abstract: Arbuscular mycorrhizal (AM) fungi, an important component of soil microbes, are of significance in maintaining the sustainable development of urban ecosystem. This paper summarized the characteristics of the colonization and community structure of AM fungi in urban ecosystems, and discussed the effects of urban ecological factors, e.g., human activities, vegetation re-establishment and maintenance, and urban soil status, on the colonization and community structure. It was considered that the researches on the community structure and function of AM fungi in urban ecosystems, such as the effects and mechanisms of the key urban ecological factors (e.g., water resource shortage and heat island effect) on the alternation of AM fungal community structure should be strengthened in the future.

Key words: urban ecosystem AM fungi colonization species diversity community structure

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