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Frontiers in Mycorrhizal Ecology Research in China
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中国菌根生态学研究前沿专辑

目　　次

封面说明: 菌根真菌在自然生态系统中的关键作用(陈保冬、付伟绘制)。菌根真菌与陆地植物广泛共生, 是连接植物和土壤, 耦合生态系统地上和地下部分的重要纽带, 深度参与养分循环、植物群落构建与土壤团聚等关键生态过程, 在维持生态系统生物多样性、稳定性与多功能性方面发挥着不可替代的作用。本专辑聚焦菌根生态学研究前沿热点, 汇集了我国科研团队在菌根真菌多样性生态调查、环境变化群落响应、生态功能及其调控等方面的最新综述和研究案例, 旨在促进相关研究者之间的学术交流, 并推动菌根生态学基础理论和菌根应用技术的发展。

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Special issue: Frontiers in Mycorrhizal Ecology Research in China

CONTENTS

Cover illustration: The critical role of mycorrhizal fungi in natural ecosystems (Illustrated by CHEN Bao-Dong and FU Wei). By forming symbioses with most terrestrial plants, mycorrhizal fungi serve as key links between plants and soil and help integrate the aboveground and belowground components of ecosystems. They are deeply involved in nutrient cycling, plant community assembly, and soil aggregation, and are essential for maintaining ecosystem biodiversity, stability, and multifunctionality. This special issue focuses on cutting-edge research advances in mycorrhizal ecology, compiling the latest reviews and case studies by Chinese research teams on topics such as biodiversity survey, community responses to environmental changes, ecological functions and the regulation strategies of mycorrhizal fungi. It aims to facilitate academic exchanges among researchers in the field and also promote the development of fundamental mycorrhizal ecology and mycorrhizal technologies.
Editor of the special issue: CHEN Bao-Dong, QIU Yun-Peng, ZHANG Hai-Yang