

Special Issue

New Insights into Arbuscular Mycorrhizal Fungi

Message from the Guest Editors

Arbuscular Mycorrhizal Fungi (AMF) play a crucial role in terrestrial ecosystems, promoting plant growth through symbiotic associations with roots. Recent studies have highlighted the remarkable diversity within AMF communities, revealing a wide range of species adapted to different environmental conditions. This taxonomic complexity is essential for understanding their ecological functions and evolutionary relationships.

Advances in molecular techniques, such as high-throughput sequencing and metagenomics, have uncovered cryptic species and provided a clearer picture of their phylogeny. Moreover, the application of AMF extends beyond natural ecosystems, showing their potential in sustainable agriculture and in the production of molecules relevant to industries. By enhancing nutrient uptake and improving plant resilience to stress, AMF inoculants are being explored to reduce chemical fertilizer dependency. Understanding the diversity, application, and taxonomy of AMF is, therefore, vital for developing tailored biofertilizers and promoting ecosystem restoration, paving the way for more resilient and productive agroecosystems in a changing world.

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