

Advances in Macrofungi: Diversity, Ecology and Biotechnology discusses the diversity and ecology of edible, toxic, medicinal and mycorrhizal macrofungi; the impact of ectomycorrhizal fungi in terrestrial ecosystems, ectomycorrhizal complex in Boreal forests and commercial application of *Pseudotsuga* in silviculture; the nutritional evaluation and cultivation of edible wild mushrooms; the diversity of novel metabolites of macrofungi useful in food, pharmaceutical and cosmeceutical industries; mushrooms as tool for eco-friendly synthesis of nanoparticles and proteomics of edible and medicinal mushrooms. In addition, it covers experimental designs, methodological approaches, biogeochemical cycles, conceptual/hypothetical models and life history strategies, linking mycorrhizal diversity to plant performance, chemotaxonomy, role of mycorrhizae in forestry and macrofungi in nanotechnology. It provides a valuable resource to graduate, post-graduate and researchers (in botany, microbiology, ecology, biotechnology, forestry, life sciences and environmental sciences) to understand the diversity, ecology, therapeutic value, mutualistic associations and biotechnological potential of macrofungi.

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