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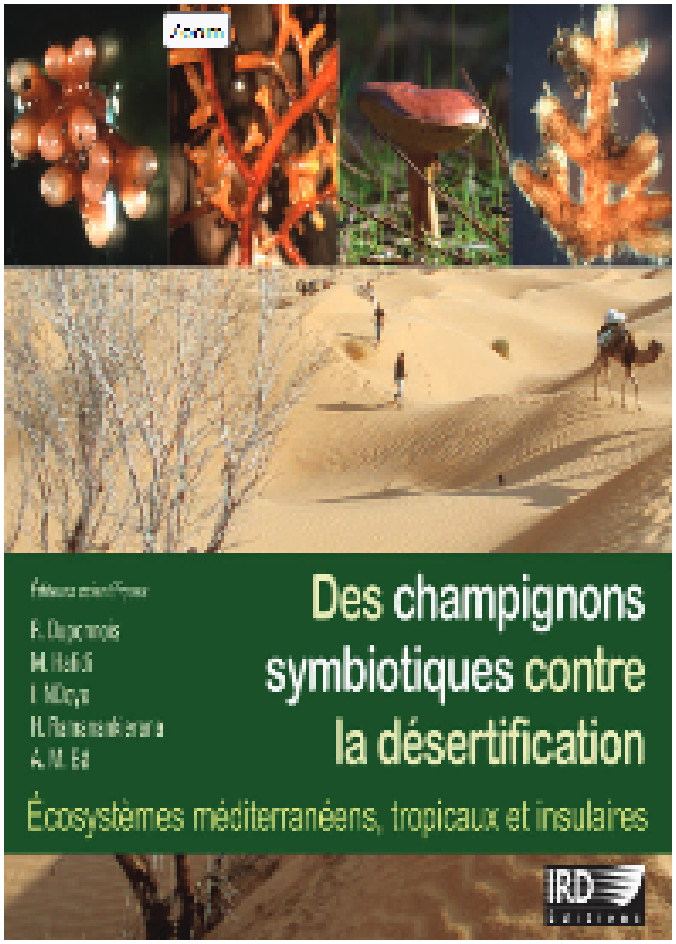
#degraded ecosystems

Publication: Symbiotic Fungi to Combat Desertification

Structure : IRD (French National Research Institute for Sustainable Development)



OVERVIEW

Desertification, the result of a combination of various environmental factors and heightened human pressure on land resources, affects more than 2 billion people worldwide. In the context of current climate change, this situation risks worsening due to the effects of unregulated natural resource management. To combat desertification, sustainable land management (SLM) relies on effective practices to improve local livelihoods, ensure food security for populations, restore natural ecosystems, and reverse this negative environmental

trend. In particular, numerous studies have shown that harnessing plant-microorganism symbioses can improve soil fertility and increase the productivity and stability of vegetation cover, whether cultivated or natural. This book provides an overview of the diversity of ecosystems studied and the techniques implemented within the Symetrop network. It describes the various approaches that can be developed to rehabilitate degraded ecosystems in Mediterranean (Algeria, Morocco), tropical (Burkina Faso, Cameroon, Senegal), and island (Madagascar, New Caledonia) environments. Symetrop: a network created by the IRD to organize the community of scientific experts in the field of mycorrhizal symbiosis.

SUMMARY

CHARACTERISTICS

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