

# Mycorrhizal functioning - an integrative plant-fungal process

**Chapman & Hall - Interactions Between Mycorrhizal Fungi and Bacteria to Improve Plant Nutrient Cycling and Soil Structure**



Description: -

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Plant-fungus relationships

MycorrhizasMycorrhizal functioning - an integrative plant-fungal process

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Notes: Includes bibliographical references and indexes.

This edition was published in 1992



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These symbioses are characterized by bi-directional movement of nutrients where carbon flows to the fungus and inorganic nutrients move to the plant, thereby providing a critical linkage between the plant root and soil.

## **Mycorrhiza**

With the current state of technology, inoculation is best for transplanted crops and in areas where soil disturbance has reduced native inoculum potential. Isolation and inoculum production of EM and AM fungi present very different problems. As a result, mycorrhizal plants are often more competitive and better able to tolerate environmental stresses than are nonmycorrhizal plants.

## **Interactions Between Mycorrhizal Fungi and Bacteria to Improve Plant Nutrient Cycling and Soil Structure**

These symbiotic fungi are of fundamental importance in organic and sustainable agriculture where fertilization and other chemical inputs can be strongly decreased.

## **Faculty**

The fungi involved are ascomycetes of the genus *Hymenoscyphus*. The function of these structures is unknown.

## **Mycorrhizal functioning (1992 edition)**

At the warmer and drier end of the environmental gradient, grasslands often form the dominant vegetation.

## **Mycorrhiza**

The focus is a hierarchical one. Examples where inoculating with either EM or AM fungi is beneficial when planting a mycorrhizal-dependent crop in an area where native inoculum potential is low: Pines were not native to Puerto Rico, and their fungal symbionts were absent from the soil Vozzo and HacsKaylo, 1971.

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