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The Ecology Of Mycorrhizae Cambridge

A great many terrestrial plants live in close association with fungi. The features of this association known as mycorrhiza, are those of a mutualistic symbiosis. Almost all plants form mycorrhizae whereby the fungus provides soil resources to the plant in exchange for energy manufactured by the plant.

The Ecology of Mycorrhizae (Cambridge Studies In Ecology ...

Following a general introduction, this book contains 7 chapters in which different aspects of mycorrhizal ecology are considered: structure-function relationships; evolution; physiological and population biology; community ecology; ecosystem dynamics; mycorrhizas and succession; and, future directions for mycorrhizal research.

The ecology of mycorrhizae, - CAB Direct

The Ecology of Mycorrhizae by Michael F. Allen, Paperback | Barnes & Noble® A great many terrestrial plants live in close association with fungi. The features of this association known as mycorrhiza, are those of a mutualistic Our Stores Are Open Book Annex Membership Educators Gift Cards Stores & Events Help

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The ecology of mycorrhizae. Cambridge University Press, UK xii + 184 pages Hardback: ISBN 0-521-33531-0; price: £32.50/\$62.50 Paperback: ISBN 0-521-33553-1; price: £15.95/\$27.95. A C Newton (a1) (a1) Natural Environment Research Council, Institute of Terrestrial Ecology, Bush Estate, Penicuik, Midlothian, EH26 0QB.

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The Ecology of Mycorrhizae. Michael F. Allen, Michael F. Allen. Cambridge University Press, Apr 25, 1991 - Science - 184 pages. 0 Reviews. Structure-functioning relationships. Types of mycorrhizae...

The Ecology of Mycorrhizae - Michael F Allen, Michael F ...

The Ecology of Mycorrhizae by Michael F. Allen, 9780521335539, available at Book Depository with free delivery worldwide.

The Ecology of Mycorrhizae : Michael F. Allen : 9780521335539

Some of the ecological uses of mycorrhizae include (i) enhancing plant growth and disease resistance (ii) improving transplant success (iii) building soil structure (iv) reducing fertilizer dependency and (v) accelerating revegetation of degraded lands.

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Synopsis. The likely consequences of disturbance of the mycorrhizal mycelial network in soil are considered, emphasis being placed on the impact of small-scale events upon infection in vesicular-arbuscular and ectomycorrhizal systems. The importance of the intact network is stressed and the effects of its disruption upon infection processes and upon the nutrition of natural plant communities and of crops is analysed.

The effects and implications of disturbance of mycorrhizal ...

Mycorrhizae are ubiquitous in terrestrial ecosystems. With an increasing awareness that this symbiotic association plays important roles in plant population dynamics, community structures and ecosystem functioning, mycorrhizal ecology has emerged as a fast growing subdiscipline in the field of ecology.

Mycorrhizal Ecology - Ecology - Oxford Bibliographies

The ecology of mycorrhizae MICHAEL F. ALLEN Department of Biology, Systems Ecology Research Group, San Diego State University, San Diego, California, USA The right of the University of Cambridge to print and sell all manner of books was granted by Henry VIII in 1534. The University has printed and published continuously since 1584. CAMBRIDGE UNIVERSITY PRESS

The ecology of mycorrhizae

A mycorrhiza (from Greek μύκηρ mykēs, "fungus", and ρίζα rhiza, "root"; pl. mycorrhizae, mycorrhiza or mycorrhizas) is a mutual symbiotic association between a fungus and a plant. The term mycorrhiza refers to the role of the fungus in the plant's rhizosphere, its root system.

Mycorrhiza - Wikipedia

The author takes a unique evolutionary/ecological approach to describe how and under what conditions mycorrhizae influence basic ecological processes. The applications of mycorrhizal symbioses range from managing natural and agricultural lands to biotechnological processes that enhance agricultural productivity and sustainability.

The ecology of mycorrhizae (Book, 1991) [WorldCat.org]

Large-scale molecular surveys have provided novel insights into the diversity, spatial and temporal dynamics of mycorrhizal fungal communities. At the ecological level, network theory makes it possible to analyze interactions between plant-fungal partners as complex underground multi-species networks.

Mycorrhizal ecology and evolution: the past, the present ...

Some of the ecological uses of mycorrhizae include (i) enhancing plant growth and disease resistance (ii) improving transplant success (iii) building soil structure (iv) reducing fertilizer dependency and (v) accelerating revegetation of degraded lands.

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Allen MF (1991) "The ecology of mycorrhizae." (Cambridge University Press: Cambridge) Allen MF, Boosalis MG (1983) Effects of 2 species of VA-mycorrhizal fungi on drought tolerances of winter wheat. New Phytologist 93, 67-76.

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Ecology of mycorrhizae: A conceptual framework for complex interactions among plants and fungi. Annual Review of Phytopathology 41: 271-303. Allen, E.B., M.F. Allen, L. Egerton-Warburton, L. Corkidi, and A. Gomez-Pompa. 2003. Impacts of early- and late-seral mycorrhizae during restoration in seasonal tropical forest, Mexico.

Department of Biology:

Large variations in leaf δ 15 N in Bornean tropical rainforest trees may indicate that various tropical species have species-specific strategy for nitrogen uptake under low soil nutrient conditions, including root symbiotic microorganisms such as ectomycorrhiza. Lowland tropical rainforests in Southeast Asia are characterized by high species diversity despite limited soil nutrient conditions ...

Variation in leaf and soil δ 15 N in diverse tree species ...

Mycorrhiza publishes Original Papers, Reviews, Short Notes, Comments, and a Newscorner. Short notes : should not exceed 6 manuscript pages (approx. 27,000 characters - plus 1 Table and 1 Figure or two Tables, or two Figures) and should be accompanied by a brief explanation of their novelty and significance.