

## Ectomycorrhizal Fungi Key Genera In Profile

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### Ectomycorrhizal Fungi Key Genera In

Mycorrhiza - the symbiosis between plants and fungi - plays a key role in plant life. This book reviews for the first time the current knowledge of 15 individual genera of ectomycorrhizal fungi. It is unique in that each chapter is dedicated to a single fungal genus, each written by internationally recognized experts on the respective fungal genera.

### Ectomycorrhizal Fungi: Key Genera in Profile: John W.G ...

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### Ectomycorrhizal fungi : key genera in profile (eBook, 1999 ...

Book : Ectomycorrhizal fungi: key genera in profile. 1999 pp.xvi + 369 pp. ref.many Abstract : Aimed as reference source for researchers, students, and practitioners in mycorrhizal biology, soil biology, and forestry this book reviews current knowledge on 15 individual genera of ectomycorrhizal fungi.

### Ectomycorrhizal fungi: key genera in profile.

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### Ectomycorrhizal fungi : key genera in profile (Book, 1999 ...

Erland S, Söderström B, Andersson S (1990) Effects of liming on ectomycorrhizal fungi infecting *Pinus sylvestris* L. II. Growth rates in pure culture at different pH values compared to growth rates in symbiosis with the host plant.

### Resupinate Ectomycorrhizal Fungal Genera | SpringerLink

An ectomycorrhiza (from Greek ἐκτός *ektos*, "outside", μύκης *mykes*, "fungus", and ῥίζα *rhiza*, "root"; pl. ectomycorrhizas or ectomycorrhizae, abbreviated EcM) is a form of symbiotic relationship that occurs between a fungal symbiont, or mycobiont, and the roots of various plant species. The mycobiont is often from the phyla Basidiomycota and Ascomycota, and more rarely from the ...

### Ectomycorrhiza - Wikipedia

Fruit-body production of two ectomycorrhizal fungi in the genus *Hebeloma* in pure culture. Fruit-body production of two ectomycorrhizal fungi, *Hebeloma radicosum* and *Hebeloma* sp. (*nagaenosugitakedamashi* in Japanese), in pure culture was examined. First, nutrients that promote mycelial growth of the fungi when added to the basal medium consisting of barley grains and sawdust were determined.

### Fruit-body production of two ectomycorrhizal fungi in the ...

Mycelial systems of ectomycorrhizal fungi. (a) A typical microcosm system demonstrating the mycelium of *Suillus variegatus* growing from a Scots pine seedling (photo taken by P.M.A. Fransson). (b) *Russula* sp. fruiting body and associated mycelium. (c) A close-up of (b) showing the base of the fruiting-body stipe, the associated white mycelium, and ECM root tips (arrows) colonized by this fungus.

### Ectomycorrhizal fungi: exploring the mycelial frontier ...

We have developed FunKey – Key to Agarics, an interactive key to the genera of Australian macrofungi, using Lucid software. The key covers the agarics (gilled fungi), a group that includes edible and poisonous mushrooms, ectomycorrhizal fungi such as *Amanita* and *Cortinarius* and saprotrophs such as *Gymnopilus* and *Mycena*.

### Interactive tools for identifying fungi

Mycoscience 38:403–408 Ohta A (1998a) Fruit-body production of two ectomycorrhizal fungi in the genus *Hebeloma* in pure culture. Mycoscience 39:15–19 Ohta A (1998b) Culture conditions for commercial production of *Lyophyllum shimeji* (in Japanese with English summary).

### Fruit-body production of an ectomycorrhizal fungus in ...

Key words – ectomycorrhizal fungi . saprobic fungi – stream side ecology tropical forests – Xishuangbanna . Introduction . Phosphorus (P) is the nutrient thought to most strongly limit plant growth in lowland tropical

and subtropical forests (Vitousek 1984, Vitousek et al. 2010, Condit et al. 2013). Ectomycorrhizal

### **Partial mutual exclusion of ectomycorrhizal and saprobic ...**

These fungi are associated with many dominant trees in both temperate and tropical forests worldwide, including those belonging to the families Fagaceae, Betulaceae, Salicaceae, Dipterocarpaceae, Myrtaceae and Pinaceae (Smith & Read, 2008; Tedersoo et al., 2010), and are characterized by strong host preferences at the host genus or family level (Ishida et al., 2007; Sato et al., 2007, 2015; Tedersoo et al., 2008).

### **Host shifts enhance diversification of ectomycorrhizal ...**

Mycorrhizal Applications is the industry leader in the research and development of commercial mycorrhizal fungi soil inoculants designed for all industries involving soils, plants, and people. Experts in the production of endomycorrhizae and ectomycorrhizae.

### **How it Works - Leaders in the Production of Mycorrhizal Fungi**

the monophyletic clade containing the ECM fungal genera *Strobilomyces* and *Afroboletus*. The results indicated that these fungi were initially associated with Caesalpinioideae/Mono- toideae in Africa, acquired associations with Dipterocarpoideae in tropical Asia, and then switched to Fagaceae/Pinaceae and Nothofagaceae/Eucalyptus.

### **Host shifts enhance diversification of ectomycorrhizal ...**

In the southern hemisphere *Eucalyptus* and *Nothofagus* (Southern Beech) are important genera as is the Dipterocarpaceae family, found in the monsoon forests of south-east Asia. In total, 140 genera, in 43 plant families have been identified as forming ECM. In contrast to the AM association, a wide range of fungi form ECM.

### **David Moore's World of Fungi: where mycology starts**

Seventy-six genera of fungi thought to be ECM are recorded as associated with plants in New Zealand, including 1 zygomycete, 11 ascomycete, and 64 basidiomycete genera. Forty-two genera are recorded in association with *Nothofagus* spp., *Leptospermum scoparium*, and/or *Kunzea eri-coides*.

### **Ectomycorrhizal fungi in New Zealand: Current perspectives ...**

The fungi provide up to 80 percent of the nutrients and water a plant needs to grow, and the plants produce up to 30 percent of the photosynthate—a food substance made through photosynthesis—that the fungi need. There are two main types of mycorrhizal fungi – arbuscular and ectomycorrhizal.

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