

Abstract

Ectomycorrhizal symbiosis (ectomycorrhiza) is a very important interaction, which affects plants and fungi in a variety of ecosystems. This interaction has been of interest to many mycologists and botanists for over a century. However, there is still a lot to be discovered. Ectomycorrhizal fungi are valuable inoculants, sources of biological pigments, antibiotics and even food. Better understanding of their nourishment and growth physiology, which is the main focus of my work, may increase the efficiency of *in vitro* cultivation and thus promote progress in fields beyond mycology.