

Abstract

The family Hyaloscyphaceae (Helotiales) includes microscopic species of fungi characterized by sessile apothecium with excipular hairs; these hairs are very important in taxonomy of the group. Most species of the family are saprobes and these saprobic species grow on herbaceous or woody litter, most often they grow on fallen needles, cones and stems of coniferous wood. Distribution of the family is cosmopolitan and has center of occurrence in temperate and boreal forests, however members of the family also occur in tropic and subtropic forests. This family is probably a polyphyletic group of several lineages and needs to be analyzed further.

The aim of this bachelor's thesis is to organize and compare the views on phylogeny of Hyaloscyphaceae, from the first morphological studies until the current molecular studies, and then to summarize all the genera of fungi which belong to this family. And to describe ecological and species diversity.