

Kutszegi G., Siller I., Dima B et al (2015): Drivers of macrofungal species composition in temperate forests, West Hungary: functional groups compared; Science Direct, Fungal Ecology 17 (69-83)

Reference: Kutszegi Gergely, Siller Irén, Dima Bálint, Takács Katalin, Merényi Zsolt, Varga Torda, Turcsányi Gábor, Bidló András, Ódor Péter (2015): Drivers of macrofungal species composition in temperate forests, West Hungary: functional groups compared; Science Direct, Fungal Ecology 17 (69-83)
Short reference: Kutszegi és mtsai (2015)

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Abstract

The most influential environmental drivers of macrofungal species composition were studied in managed, even-aged, mixed forests of Órség National Park, Hungary. Functional groups of macrofungi were analyzed separately by non-metric multidimensional scaling and redundancy analysis exploring their relations to tree species composition, stand structure, soil/litter conditions, microclimate, landscape, and management history. There was some evidence that macrofungi are related to drivers that are relatively easy to measure. Wood-inhabiting fungal species composition is driven primarily by the species composition of trees, while substratum properties and microclimate play minor roles. The terricolous saprotrophic community was determined principally by a litter pH gradient involving tree species composition and soil/litter properties. Microclimate had no concordant effect. No obvious underlying gradients were detected on ectomycorrhizal fungal species composition; however, tree size and litter pH had significant effects. For each group, no clear responses to landscape or management history were detected.

[biodiversity: fungus, lichen](#)
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