

## BIODIVERSITY OF BRYOPHILOUS PEZIZALES (ASCOMYCETES) IN HUNGARY

Brio fil csészegombák Magyarországon

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Because of their tiny apothecia and special habitat bryophilous species of *Pezizales* belong to the overlooked and underrecorded groups of ascomycetous fungi, and many of them are represented only with a few localities worldwide. Particularly due to the activity of the bryologist Peter Erzberger (collector) and the mycologist Dieter Benkert (determinations) in the 1990s and the first part of the 2000s Hungary is one of the few countries that have fungistical data of bryoparasitic *Pezizales* at all. During systematic surveys in the last two years about 500 new occurrences of forty obligate bryophilous fungi taxonomically classified in the genera *Lamprospora*, *Neottiella* and *Octospora* have been observed in Hungary. Twenty of the taxa found are reported for the first time in the country and two of them seem to be new to science. By means of special parasitising structures (appressoria and haustoria) they parasitise mostly the rhizoids, rarely rhizoid tubers, stems, and leaves of various moss and liverwort species. The following taxa of bryophilous *Pezizales* were collected in the last two years in Hungary (bryophyte hosts indicated in brackets): *Lamprospora dictydiola* (*Aloina ambigua*, *Tortula muralis*), *L. ditrichi* (*Ditrichum flexicaule*), *L. hispanica* (*Aloina ambigua*), *L. miniata* var. *miniata* (*Aloina ambigua*), *Phascum cuspidatum*, *Pottia* spp.), *L. miniata* var. *parvispora* (*Barbula unguiculata*), *L. miniata* var. *ratisbonensis* (*Didymodon* spp.), *L. minuta* (*Bryum* sp.), *L. retispore* (*Syntrichia ruralis*), *L. seaveri* (*Bryum* spp.), *L. tortulae-ruralis* (*Syntrichia ruralis*), *L. tuberculatella* (*Weissia* sp.), *Neottiella albocincta* (*Atrichum undulatum*), *N. ricciae* (*Riccia sorocarpa*), *Octospora axillaris* var. *axillaris* (*Phascum cuspidatum*, *P. curvicolle*), *O. axillaris* var. *tetraspora* (*Phascum cuspidatum*), *O. coccinea* var. *coccinea* (*Bryum* spp., *Encalypta vulgaris*, very rarely *Ceratodon purpureus*), *O. erzbergeri* (*Pseudoleskeella nervosa*), *O. excipulata* (*Aphanorhynchus patens*, *Funaria hygrometrica*), *O. gemmicola* var. *gemmicola* (*Bryum* spp.), *O. gemmicola* var. *tetraspora* (*Bryum* sp.), *O. grimmiae* (*Grimmia pulvinata*), *O. gyalectoides* (*Aloina rigida*, *Barbula* spp., *Pottia* spp., *Phascum cuspidatum*, *Pterygoneurum ovatum*, *Tortula muralis*, very rarely *Bryum* spp.), *O. hetieri* (*Ceratodon purpureus*), *O. itzerottii* (*Pterygoneurum ovatum*), *O. leucoloma* var. *leucoloma* (*Bryum argenteum*, very rarely *Bryum dichotomum*), *O. leucoloma* var. *tetraspora* (*Bryum argenteum*), *O. lilacina* (*Pleuroidium* sp.), *O. musci-muralis* var. *musci-muralis* (*Grimmia pulvinata*), *O. musci-muralis* var. *neglecta* (*Schistidium crassipilum*), *O. neerlandica* (*Syntrichia virescens*), *O. orthotrichi* (*Orthotrichum diaphanum*), *O. phagospora* (*Pohlia lutescens*), *O. pseudoampezzana* (*Schistidium crassipilum*), *O. rustica* (*Ceratodon purpureus*), *O. similis* (*Bryum* sp.), *O. wrightii* (*Amblystegium serpens*).