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CONTRIBUTIONS TO THE KNOWLEDGE OF MACROFUNGI OF THE FORESTS ALONG THE FEKETE-KÖRÖS, SE HUNGARY

G. VASAS

Department of Botany, Hungarian Natural History Museum
H-1476 Budapest, Pf. 222, Hungary

Mycological records to the riverine forests along the Fekete-Körös have been very limited. According to our recent investigations, the oldest, semi-natural stands of the Mályvád forest appeared to be the richest in species. Altogether, 90 macromycetes species were found; among them one species is new to science (*Agaricus annulospecialis*), and two species (*Leucoagaricus ionidicolor*, *Russula cicatricata*) are new records for Hungary.

Key words: Fekete-Körös, macrofungi, oak-ash-elm riverine forest

THE STUDY AREA

The area of the riverine oak-ash-elm forests and that of the extensive, dominant, natural oak forests of the Great Hungarian Plain have drastically been decreased in the past centuries due to the human activities, like river control, drainage, deforestation and afforestation by non-native species. By now only some semi-natural fragments remained in the Great Hungarian Plain, *e.g.* a considerable, less degraded stand in the once closed oakwoods at the Szatmár-Bereg Plain (NE Hungary), and a few more degraded stands along the Körös rivers (SE Hungary).

Phytogeographically, the Körös-vidék belongs to the Crisicum (Tiszántúl) flora district and it extends up to the foothills of the Bihar Mts (Transylvania, Romania). For nature conservation, this area has great importance, because considerable oak-ash-elm forest stands (*Fraxino pannonicae-Ulmetum*), growing on alluvial soils, exist only here within the formerly considered "forest steppe zone" of the Great Hungarian Plain, and only here they are adjacent to the salty forests (*Festuco pseudovinae-Quercetum*). An important characteristics of these forests, their herbaceous layer is rich in submontane elements, due to the humid microclimate of the rivers and shaded forests. With increasing distance from the rivers the water-table is lowering, and more and more plant species characteristic of the dry oak forests (*Quercetea pubescentis-petraeae* s. l.) appear.

The Mályvád forest, the largest, continuous forest area of the Fekete-Körös, was dominated by old, native trees. In recent decades, as the old (semi) natural stands had been harvested, these grand forests were gradually replaced by non-na-

tive tree species like *Robinia pseudo-acacia*, *Juglans nigra*, *Populus* sp. Some of the remnants of these old, semi-natural stands proved to be excellent habitats for cryptogams. A map of the localities is given in PAPP and RAJCZY (2000).

THE MACROFUNGI OF THE STUDIED AREA

No former scientific mycological research is known from the forests along the Fekete-Körös. The only five common fungus species, reported recently (RIMÓCZI 1994) from these areas, were incorporated in our paper as well. From this region, we had even no preserved specimens in the Macrofungi Collection of the Botanical Department of the Hungarian Natural History Museum (Budapest), thus our mycological investigations in 1998 were really the first steps of a gap-filling activity.

Our exploration of the area has resulted in the record of altogether 90 macrofungi species, among them 54 terricolous, saprophytic, 26 xylophagous and 10 mycorrhizal species. On the basis of our investigations the Mályvád forest proved to be the richest in macrofungi species.

The record of macrofungi from these riparian forests is remarkably different from those of the montane (often called "acidic") forests, where mostly mycorrhizal species are dominant (BOHUS and BABOS 1960, 1967, 1978). Among the Hungarian areas, investigated mycologically so far, the species composition of the macrofungi of our study area is quite similar to that of the Szigetköz area. Both riverine forest areas are characterised by the dominance of saprophytic species, and the subordination of mycorrhizal species. No species of *Amanita* or *Cortinarius* was found at in the Fekete-Körös area, and, similarly, no *Cortinarius* species and only two *Amanita* species were collected in the Szigetköz during our 3-year research period. Among the mycorrhizal species of the Fekete-Körös area, we recorded 7 species of the genus *Russula*. The Boletales order is represented by only two species. The number of saprophytic, nitrofrequent species is high in both areas (some species, present in both areas: *Agaricus praeclaresquamosus, Coprinus micaceus, C. plicatilis, Leucoagaricus serenus, Melanoleuca melaleuca, Tubaria furfuracea*). The abundance of the saprophytic *Lepiota* s. l. species was conspicuous.

The presence of *Agaricus* was also remarkable in our study area. So far, 10 species (*A. annulospecialis*, *A. arvensis*, *A. bohusii*, *A. bresadolianus*, *A. essettei*, *A. lanipes*, *A. phaeolepidotus*, *A. praeclaresquamosus*, *A. semotus*, *A. squamuliferus*, *A. xanthoderma*) were observed, but further investigation should obviously reveal more species. *A. praeclaresquamosus*, known to be a rare species in Hungary,

appeared in great abundance in the Mályvád forest, in dense nettle stands on nitrogen-rich soil. *A. phaeolepidotus* is also rare in Hungary (altogether, 4 records are known; Babos 1989), yet it was also abundant in the Mályvád forest in 1998. Several fairy rings of the otherwise rare *A. bohusii* were found in the Mályvád forest (Doboz 13B, Gyula 87B). Twelve groups of 8–10 fruitbodies were observed in one of the rings (Doboz 13B, 9 September, 1998). To date, only two specimens of *A. lanipes* were recorded from Hungary (Buda Mts; BABOS 1989), but one specimen was also collected in the Mályvád forest (Gyula 33A) in 1998.

A new *Agaricus* species was discovered on 27 April, 1998 in the Mályvád forest (Gyula 33A) and in the Sarkad–Remete forest (Sarkad 34C), and subsequently described as *A. annulospecialis* Bohus, Locsm. et Vasas (BOHUS *et al.* 2000). Several groups of fruitbodies of various developmental stages were observed and collected in the locations mentioned. Young specimens are characterised by a horizontally rimmed ring structure, which is changing in older specimens. When the fibrous, weak, outer (general) veil separated from the margin of the cap, a loose, pendent ring is formed. After rubbing or 1–2 hours of storage, the white skin of the fruitbodies turns to yellowish (later rusty yellowish), which is typical of the section Arvenses, especially the subsection Silvicolae (BOHUS 1995).

Two species (i.e. *Leucoagaricus ionidicolor* (Gyula 33A), and *Russula cicatricata* (Gyula 71B, 85A)), new records for Hungary, were also found in the Mályvád forest.

In the young planted forest stands along the Fekete-Körös only very few saprophytic fungi are growing. In the spring no any fungus species occur here due to the dense, tall herb layer (dominated mainly *Urtica dioica* and *Galium aparine*), while nitrophilous, saprophytic species do appear in the autumn. In the middle-aged forest stands the species number of the macrofungi is much higher, but naturally the highest numbers of fungi appear only in the oldest, more natural stands. Among these, certain parts of the Mályvád forest proved to be the best biotops for fungi, especially the "Gyula 33A" stand as a flood area of the dead arm Holt-Körös.

The above results also confirm that the mature forests of this area have an interesting, characteristic macrofungus flora, which invites for further studies.

ENUMERATION

The following monographs were used for identifications: CAPELLI (1984) for *Agaricus*, CANDUSSO and LANZONI (1990) for *Lepiota*, GALLI (1996) for *Russula*

and MOSER (1983) for other macrofungi. Abbreviations: LCS = Csaba Locsmándi, LL = László Lőkös, PB = Beáta Papp, RI = Imre Rimóczi, VG = Gizella Vasas.

Agaricus annulospecialis Bohus, Locsm. et Vasas – Gyula: Mályvádi-erdő (33A), 27.04.1998., leg.: LCS–VG, 20.05.1998., leg.: LL–PB; Sarkad: Remetei-erdő (34C), 27.04.1998., leg.: LCS–VG.

Agaricus arvensis Schff.: Fr. – Gyula: Mályvádi-erdő (33A), 09.09.1998., leg.: LCS–VG, Sitkai-erdő (126A), 10.09.1998., leg.: LCS–VG; Sarkad: Remetei-erdő (34C), 10.09.1998., leg.: LCS–VG.

Agaricus bohusii Bon – Gyula: Mályvádi-erdő (33A, 87B), 09.09.1998., leg.: LCS–VG.

Agaricus bresadolianus Bohus – Gyula: Mályvádi-erdő (7A, 17D), 09.09.1998., leg.: LCS–VG.

Agaricus essettei Bon – Gyula: Mályvádi-erdő (33A, 40A, 71A, 88E), 09.09.1998., leg.: LCS–VG, Sitkai-erdő (126A), 10.09.1998., leg.: LCS–VG; Sarkad: Remetei-erdő (34C), 10.09.1998., leg.: LCS–VG.

Agaricus lanipes (Moell.) Moell. – Gyula: Mályvádi-erdő (33A), 09.09.1998., leg.: LCS–VG.

Agaricus phaeolepidotus (Moell.) Moell. – Doboz: Sebesfoki erdő, (12B), 20.05.1998., 09.09.1998., leg.: LL–PB; Gyula: Mályvádi-erdő (33A), 09.09.1998., leg.: LCS–VG, Sitkai-erdő (126A), 10.09.1998., leg.: LCS–VG; Sarkad: Remetei-erdő (34C), 10.09.1998., leg.: LCS–VG.

Agaricus praeclaresquamosus Freeman – Gyula: Mályvádi-erdő (7A, 17D, 71A, 88E), 09.09.1998., leg.: LCS–VG, Gelvács (103E), 10.09.1998., leg.: LCS–VG, Sitkai-erdő (126A), 10.09.1998., leg.: LCS–VG; Sarkad: Remetei-erdő (34C), 10.09.1998., leg.: LCS–VG.

Agaricus semotus Fr. – Gyula: Mályvádi-erdő (85A, 86A), 09.09.1998., leg.: LCS–VG.

Agaricus squamuliferus (Moell.) Moell. – Gyula: Mályvádi-erdő (33A), 30.06.1998., leg.: LCS–VG, Mályvádi-erdő (71A), 09.09.1998. LCS–VG; Sarkad: Remetei-erdő (34C), 10.09.1998., leg.: LCS–VG.

Agaricus xanthoderma Genev – Gyula: Mályvádi-erdő (7A, 17D, 33A, 71A, 88E), 09.09.1998., leg.: LCS–VG, Gelvács (103E), 10.09.1998., leg.: LCS–VG, Sitkai-erdő (126A), 10.09.1998., leg.: LCS–VG; Sarkad: Remetei-erdő (34C), 10.09.1998., leg.: LCS–VG.

Agrocybe erebia (Fr.) Kühn. – Gyula: Mályvádi-erdő (33A), 09.09.1998., leg.: LCS–VG.

Agrocybe praecox (Pers.: Fr.) Fayod – Gyula: Mályvádi-erdő (33A), 27.04.1998., leg.: LCS–VG; Sarkad: Remetei-erdő (34C), 27.04.1998., leg.: LCS–VG.

Armillaria rickenii Bohus – Gyula: Mályvádi-erdő (7A, 17D), 09.09.1998., leg.: LCS–VG.

Auricularia auricula-judae (Bull.: Fr.) Wettstein – Gyula: Mályvádi-erdő (33A, 40A, 71A), 09.09.1998., leg.: LCS–VG, Gelvács (103E), 10.09.1998., leg.: LCS–VG, Sitkai-erdő (126A), 10.09.1998., leg.: LCS–VG.

Auricularia mesenterica (Dicks.: Fr.) Pers. – Gyula: Mályvádi-erdő (33A, 71A, 88E), 09.09.1998., leg.: LCS–VG.

Bovista plumbea Pers.: Pers. – Gyula: Mályvádi-erdő (33A, 88E), 09.09.1998., leg.: LCS–VG, Sitkai-erdő (126A), 10.09.1998., leg.: LCS–VG.

Calocybe gambosa (Fr.) Donk – Doboz: Gerla–Marói-erdő (39E, 39A), 27.04.1998., leg.: LCS–VG.

Calocybe ionides (Bull.: Fr.) Donk – Doboz: Öreg-erdő, 19.10.1990., leg.: RI.

Clitocybe candicans (Pers.: Fr.) Kummer – Gyula: Mályvádi-erdő (17D), 09.09.1998., leg.: LCS–VG, Gelvács (103E), 10.09.1998., leg.: LCS–VG.

Clitocybe geotropa (Bull.: Fr.) Quél. – Doboz: Öreg-erdő, 19.10.1990., leg.: RI.

Clitocybe gibba (Pers.: Fr.) Kummer – Gyula: Mályvádi-erdő (85A, 86A, 88E), 09.09.1998., leg.: LCS–VG.

Clitocybe nebularis (Batsch.: Fr.) Kummer – Doboz: Öreg-erdő, 19.10.1990., leg.: RI.

Collybia confluens (Pers.: Fr.) Kummer – Gyula: Sitkai-erdő (126A), 10.09.1998., leg.: LCS–VG.

Collybia dryophila (Bull.: Fr.) Kummer – Doboz: Sebesfoki-erdő (6C, 12B), 04.10.1998., leg.: LCS–VG, Gerla–Marói-erdő (39E), 04.10.1998., leg.: LCS–VG; Gyula: Mályvádi-erdő (3D, 7A, 17D, 33A, 40A, 71A, 78C, 85A, 86A, 88E), 09.09.1998., leg.: LCS–VG, Gelvács (103E), 10.09.1998., leg.: LCS–VG; Sarkad: Remetei-erdő (34C), 27.04.1998., leg.: LCS–VG.

Collybia peronata (Bolt.: Fr.) Sing. – Doboz: Sebesfoki-erdő, (12B), 04.10.1998., leg.: LCS–VG; Gyula: Mályvádi-erdő (17D, 40A, 71A, 85A, 86A, 88E), 09.09.1998., leg.: LCS–VG, Gelvács (103E), 10.09.1998., leg.: LCS–VG; Sarkad: Remetei-erdő (34C), 10.09.1998., leg.: LCS–VG.

Coprinus micaceus (Bull.: Fr.) Fr. – Doboz: Sebesfoki-erdő (6C, 12B), 04.10.1998., leg.: LCS–VG, Gerla–Marói-erdő (39E), 04.10.1998., leg.: LCS–VG; Gyula: Mályvádi-erdő (3D, 7A, 17A, 33A, 71A), 09.09.1998., leg.: LCS–VG.

Coprinus plicatilis (Curt.: Fr.) Fr. – Doboz: Sebesfoki erdő, (12B), 30.06.1998., 04.10.1998., leg.: LCS–VG; Gyula: Mályvádi-erdő (88E), 09.09.1998., leg.: LCS–VG, Gelvács (103E), 10.09.1998., leg.: LCS–VG; Sarkad: Remetei-erdő (34C), 10.09.1998., leg.: LCS–VG.

Coprinus radians Desm. – Doboz: Gerla–Marói-erdő (39A, 39E), 27.04.1998., leg.: LCS–VG; Gyula: Mályvádi-erdő (3D, 87B), 09.09.1998., leg.: LCS–VG.

Entoloma aprile (Britz.) Sacc. – Gyula: Mályvádi-erdő (33A), 27.04.1998., leg.: LCS–VG; Sarkad: Remetei-erdő (34C), 27.04.1998., leg.: LCS–VG.

Entoloma clypeatum (L. : Fr.) Kummer – Gyula: Mályvádi-erdő (33A), 27.04.1998., leg.: LCS–VG; Sarkad: Remetei-erdő (34C), 27.04.1998., leg.: LCS–VG.

Fomes fomentarius (L.: Fr.) Fr. – Gyula: Mályvádi-erdő (85A, 86A), 09.09.1998., leg.: LCS–VG.

Ganoderma applanatum (Pers.: Wallr.) Pat. – Gyula: Mályvádi-erdő (88E), 09.09.1998., leg.: LCS–VG.

Geastrum fornicatum (Huds.) Fr. – Doboz: Sebesfoki erdő, 12B, 04.10.1998., leg.: LCS–VG; Gyula: Mályvádi-erdő (33A), 20.05.1998., leg.: LL–PB.

Geastrum sessile (Sow.) Pouz. – Gyula: Mályvádi-erdő (33A), 20.05.1998., leg.: LL–PB; Sarkad: Remetei-erdő (34C), 27.04.1998., leg.: LCS–VG.

Hohenbuehelia atrocoerulea (Fr.) Sing. – Gyula: Mályvádi-erdő (88E), 09.09.1998., leg.: LCS–VG.

Hypoxylon fragiforme (Pers.: Fr.) Kickx – Doboz: Sebesfoki-erdő (12B), 30.06.1998., leg.: LCS–VG; Gyula: Mályvádi-erdő (88E), 09.09.1998., leg.: LCS–VG.

Inocybe fastigiata (Schff.: Fr.) Quél. – Gyula: Mályvádi-erdő (87B), 09.09.1998., leg.: LL–PB.

Laetiporus sulphureus (Bull.: Fr.) Murrill – Gyula: Mályvádi-erdő (33A), 09.09.1998., leg.: LCS–VG.

Lentinus cyathiformis (Schff.: Fr.) Bres. – Doboz: Sebesfoki-erdő, 12B, 04.10.1998., leg.: LCS–VG.

Lepiota alba (Bres.) Sacc. – Gyula: Mályvádi-erdő (33A), 09.09.1998., leg.: LL–PB.

Lepiota clypeolaria (Bull.: Fr.) Kummer – Gyula: Mályvádi-erdő (33A, 40A, 71A), 09.09.1998., leg.: LCS–VG, Sitkai-erdő (126A), 10.09.1998., leg.: LCS–VG; Sarkad: Remetei-erdő (34C), 10.09.1998., leg.: LCS–VG.

Lepiota cristata (A. et S.: Fr.) Kummer – Gyula: Mályvádi-erdő (3D, 7A, 17D, 88E), 09.09.1998., leg.: LCS–VG.

Leucoagaricus ionidicolor Bellu: Lanzoni – Gyula: Mályvádi-erdő (3D, 33A), 09.09.1998., leg.: LCS–VG.

Leucoagaricus serenus (Fr.) Bon: Boiffard – Gyula: Mályvádi-erdő (7A, 17D, 33A, 40A, 88E), 09.09.1998., leg.: LCS–VG, Sitkai-erdő (126A), 10.09.1998., leg.: LCS–VG; Sarkad: Remetei-erdő (34C), 10.09.1998., leg.: LCS–VG.

Lycoperdon perlatum Pers. – Gyula: Mályvádi-erdő (33A, 40A, 86A), 09.09.1998., leg.: LCS–VG, Sitkai-erdő (126A), 10.09.1998., leg.: LCS–VG; Sarkad: Remetei-erdő (34C), 10.09.1998., leg.: LCS–VG.

Lycoperdon pyriforme Schaeff.: Pers. – Gyula: Mályvádi-erdő (33A, 86A), 09.09.1998., leg.: LCS–VG.

Macrolepiota excoriata (Schff.: Fr.) Moser – Gyula: Mályvádi-erdő (33A, 40A), 09.09.1998., leg.: LCS–VG.

Macrolepiota procera (Scop.: Fr.) Sing. – Gyula: Mályvádi-erdő (7A, 17D, 33A, 71A, 78C, 85A, 86A, 88E), 09.09.1998., leg.: LCS–VG, Gelvács (103E), 10.09.1998., leg.: LCS–VG, Sitkai-erdő (126A), 10.09.1998., leg.: LCS–VG; Sarkad: Remetei-erdő (34C), 10.09.1998., leg.: LCS–VG.

Macrolepiota rhacodes (Vitt.) Sing. – Gerla: Békési-erdő, 20.06.1990., leg.: RI; Gyula: Mályvádi-erdő (7A, 17D, 86A), 09.09.1998., leg.: LCS–VG.

Marasmius oreades (Bolt.: Fr.) Fr. – Gerla: Békési-erdő, 20.06.1990., leg.: RI.

Marasmius rotula (Scop.: Fr.) Fr. – Gyula: Mályvádi-erdő (85A), 09.09.1998., leg.: LCS–VG.

Melanoleuca brevipes (Bull.: Fr.) Pat. – Gyula: Mályvádi-erdő (33A), 27.04.1998., leg.: LCS–VG.

Melanoleuca grammopodia (Bull.: Fr.) Pat. – Gyula: Mályvádi-erdő (33A), 27.04.1998., leg.: LCS–VG.

Melanoleuca melaleuca Lange – Gyula: Mályvádi-erdő (7A, 17D, 33A), 09.09.1998., leg.: LCS–VG, Sitkai-erdő (126A), 10.09.1998., leg.: LCS–VG.

Micromphale foetidum (Sow.: Fr.) Sing. – Gyula: Mályvádi-erdő (17D), 09.09.1998., leg.: LCS–VG, Gelvács (103E), 10.09.1998., leg.: LCS–VG.

Mitrophora semilibera (DC.: Fr.) Leveille – Doboz: Gerla–Marói-erdő (39A), 27.04.1998., leg.: LCS–VG; Gyula: Mályvádi-erdő (33A), 27. 04.1998., leg.: LCS–VG.

Morchella esculenta Pers.: St. Amans – Gyula: Mályvádi-erdő (33A), 27.04.1998., leg.: LCS–VG.

Mycena pura (Pers.: Fr.) Kummer – Doboz: Gerla–Marói-erdő (39A, 85A), 04.10.1998., leg.: LCS–VG; Gyula: Mályvádi-erdő (86A), 09.09.1998., leg.: LCS–VG.

Mycena renati Quél. – Doboz: Sebesfoki-erdő (12B), 04.10.1998., leg.: LCS–VG, Gerla–Marói-erdő (39A), 04.10.1998., leg.: LCS–VG; Gyula: Mályvádi-erdő (33A), 27.04.1998., leg.: LCS–VG.

Mycena rosea (Bull.) Sacc. et Dalla Costa – Gyula: Mályvádi-erdő (86A), 09.09.1998., leg.: LCS–VG.

Panus tigrinus (Bull.: Fr.) Sing. – Doboz: Gerla–Marói-erdő (39E), 27.04.1998., leg.: LCS–VG.

Pluteus atricapillus (Secr.) Sing. – Doboz: Gerla–Marói-erdő (39A, 39E), 04.10.1998., leg.: LCS–VG; Gyula: Mályvádi-erdő (33A), 27.04.1998., leg.: LCS–VG, Mályvádi-erdő (40A, 85A, 86A), 09.09.1998., leg.: LCS–VG, Sitkai-erdő (126A), 10.09.1998., leg.: LCS–VG.

Pluteus nanus (Pers.: Fr.) Kummer – Gyula: Mályvádi-erdő (85A), 09.09.1998., leg.: LCS–VG.

Pluteus semibulbosus (Lasch: Fr.) Gill. – Gyula: Sitkai-erdő (126A), 10.09.1998., leg.: LCS–VG.

Polyporus arcularius Batsch: Fr. – Doboz: Gerla–Marói-erdő (39A), 27.04.1998., leg.: LCS–VG; Gyula: Mályvádi-erdő (33A), 27.04.1998., leg.: LCS–VG.

Polyporus badius (Pers.: S. F. Gray) Schw. – Gyula: Sitkai-erdő (126A), 10.09.1998., leg.: LCS–VG.

Polyporus mori Pollini: Fr. – Doboz: Gerla–Marói-erdő (39A, 39E), 27.04.1998., leg.: LCS–VG, Sebesfoki-erdő (12B), 30.06.1998., leg.: LCS–VG; Gyula: Mályvádi-erdő (33A), 27.04.1998., leg.: LCS–VG, Mályvádi-erdő (40A), 30.06.1998., leg.: LCS–VG;

Polyporus squamosus Huds.: Fr. – Gyula: Mályvádi-erdő (33A), 27.04.1998., leg.: LCS–VG, Mályvádi-erdő (78C, 86A), 09.09.1998., leg.: LCS–VG.

Psathyrella candolleana (Fr.) Mre. – Doboz: Sebesfoki-erdő (6C, 12B), 30.06.1998., leg.: LCS–VG, Gerla–Marói-erdő (39E), 09.09.1998., leg.: LCS–VG; Gyula: Mályvádi-erdő (3D, 7A, 17D, 33A, 40A, 71A, 85A, 86A, 88E), 09.09.1998., leg.: LCS–VG, Gelvács (103E), 10.09.1998., leg.: LCS–VG.

Psathyrella piluliformis (Bull.: Fr.) Orton – Gyula: Mályvádi-erdő (85A, 86A), 09.09.1998., leg.: LCS–VG; Sarkad: Remetei-erdő (34C), 10.09.1998., leg.: LCS–VG.

Russula cicatricata Romagn. – Gyula: Mályvádi-erdő (71A, 85A), 09.09.1998., leg.: LCS–VG.

Russula decipiens (Sing.) Kühn. et Romagn. – Gyula: Mályvádi-erdő (85A, 86A), 09.09.1998., leg.: LCS–VG.

Russula galochroa Fr. ss. Romagn. – Doboz: Sebesfoki-erdő (12B), 30.06.1998., leg.: LCS–VG; Gyula: Mályvádi-erdő (33A), 30.06.1998., leg.: LCS–VG, Sitkai-erdő (126A), 10.09.1998., leg.: LCS–VG.

Russula grisea (Pers. ex Secr.) Fr. – Gyula: Gelvács (103E), 30.06.1998., leg.: LCS–VG

Russula odorata Romagn. – Gyula: Gelvács (103E), 30.06.1998., leg.: LCS–VG, Mályvádi-erdő (85A, 86A), 30.06.1998., leg.: LCS–VG.

Russula pectinatoides Peck ss. Sing. – Gyula: Mályvádi-erdő (33A), 30.06.1998., leg.: LCS–VG, Sitkai-erdő (126A), 10.09.1998., leg.: LCS–VG; Sarkad: Remetei-erdő (34C), 10.09.1998., leg.: LCS–VG.

Russula sororia Fr. – Gyula: Gelvács (103E), 30.06.1998., leg.: LCS–VG, Mályvádi-erdő (33A, 78C), 30.06.1998., leg.: LCS–VG.

Schizophyllum commune Fr. – Doboz: Sebesfoki-erdő (12B), 04.10.1998., leg.: LCS–VG.

Scleroderma vulgare Horn – Gyula: Mályvádi-erdő (88E), 09.09.1998., leg.: LCS–VG.

Simocybe centunculus (Fr.) Sing. – Gyula: Mályvádi-erdő (85A), 09.09.1998., leg.: LCS–VG.

Stereum hirsutum (Wild: Fr.) S. F. Gray – Doboz: Sebesfoki-erdő (12B), 04.10.1998., leg.: LCS–VG, Gerla–Marói-erdő (39A), 27.04.1998., leg.: LCS–VG; Gyula: Mályvádi-erdő (7A, 17D), 09.09.1998., leg.: LCS–VG.

Trametes versicolor (L.: Fr.) Pilát – Doboz: Sebesfoki-erdő (12B), 04.10.1998., leg.: LCS–VG; Gyula: Mályvádi-erdő (17D, 85A, 86A), 09.09.1998., leg.: LCS–VG.

Tricholoma scalpturatum (Fr.) Quél. – Gyula: Mályvádi-erdő (86A), 09.09.1998., leg.: LCS–VG.

Tubaria furfuracea (Pers.) Sing. – Gyula: Mályvádi-erdő (33A), 27.04.1998., leg.: LCS–VG.

Xerocomus rubellus (Krbh.) Quél. – Gyula: Mályvádi-erdő (33A, 40A, 87B), 09.09.1998., leg.: LCS–VG.

Xerocomus spadiceus (Fr.) Quél. – Gyula: Gelvács, 30.06.1998., leg.: LCS–VG.

Xerula badia (Bull.) Moser – Gyula: Mályvádi-erdő (7A, 17D, 33A, 85A, 86A), 09.09.1998., leg.: LCS–VG.

Xerula pubens (Relhan: Fr.) Sing. – Gyula: Mályvádi-erdő (7A, 17D, 33A, 71A, 86A, 88E), 09.09.1998., leg.: LCS–VG, Gelvács (103E), 10.09.1998., leg.: LCS–VG.

Xylaria polymorpha (Pers.: Mérat) Greville – Gyula: Mályvádi-erdő (33A, 40A, 71A, 86A), 09.09.1998., leg.: LCS–VG.

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