

by

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The following short list includes the fungi collected by one of us (R. W. G. D.) in Portugal during the second half of October 1955. This was an exceptionally dry month so that the agaricales were almost absent except at comparatively high altitudes in the northern mountains. This list may be regarded as a supplement to that published by PEARSON (1950), which recorded his finds during the first half of November 1949. The agaricales are listed according to the system of SINGER (1951), now generally adopted by specialists in the group outside France. Where this involves the use of a different generic name from that employed by PEARSON the name used by the latter is added in parenthesis to facilitate correlation of the two lists. The poroid aphylophorales are not listed as these have already been fully studied by Prof. J. PINTO-LOPES.

Our thanks are due to all those Portuguese botanists whose kindness and hospitality made it possible to find something even in such an unfavourable season but especially to Prof. PINTO-LOPES for providing facilities for work in Lisboa and to the Director general of Forests for most generously providing transport and accomodation in the northern forests, where the most interesting collections were made.

AGARICALES

Hygrophoraceae

Hygrocybe conica (SCOP. ex FR.) KUMMER (*Hygrophorus*) — lawns of Instituto Superior d'Agronomia, Lisboa.

Tricholomataceae

Laccaria laccata (SCOP. ex FR.) COOKE — in wet moss of deciduous woods, Serra da Estrela.

Laccaria laccata var. *proxima* (BOUD.) R. MAIRE — in short turf, Curral das Marias, Serra da Estrela.

Laccaria tortilis ([BOLT.] S. F. GRAY) COOKE — bare soil under *Alnus*, beside Rio Tâmega, Amarante.

Armillaria mellea (VAHL ex FR.) KUMMER — Amarante.

Leucopaxillus rhodoleucus (ROMELL) KÜHNER — under *Pinus* & *Eucalyptus*, Pinhal de Leiria, west of Marinha Grande.

Schizophyllum commune FR. — on *Salix*, Amarante; on *Nereum oleander*, Lisboa.

Hemimycena fibula (BULL. ex FR.) SINGER (*Omphalia*) — in wet moss, Serra do Marão between Mesão Frio & Amarante.

Hemimycena mairei (GILBERT) SINGER — in swarms on bare soil beside Rio Tâmega, Amarante.

Hemimycena setipes (FR.) SINGER — roadside grass, Serra do Marão between Mesão Frio & Amarante.

Marasmius capillipes SACC. — on rotting leaves of *Salix*, beside Rio Tâmega, Amarante.

Amanitaceae

Lepiota naucina (FR.) KUMMER — lawns of Instituto Superior d'Agronomia, Lisboa.

Agaricus bitorquis (QUÉL.) SACC. — sandy soil near Rio Tâmega, Amarante.

Agaricus xanthoderma GENEV. (*Psalliota*) — under pines, Pinhal de Leiria, west of Marinha Grande; gardens, Monserrate, Sintra; Estufa Fria, Lisboa; lawns, Instituto Superior d'Agronomia, Lisboa, etc.

Coprinaceae

Psathyrella marcescibilis (BRITZ.) SINGER — attached to a fallen stick in deciduous woods, Serra da Estrela.

Panaeolus sphinctrinus (FR.) QUEL. — roadside grass in Serra do Marão, between Mesão Frio & Amarante.

Bolbitiaceae

Conocybe tenera (SCHAEFF. ex FR.) FAYOD var. *semiglobata* (KÜHNER) ROMAGNESI — short turf, Curral das Marias, Serra da Estrela.

Pholiotina togularis (BULL. ex FR.) FAYOD — in wet moss under *Castanea*, Serra da Estrela.

Agrocybe cylindracea (D. C. ex FR.) R. MAIRE (*Pholiota Aegerita*) — on *Populus*, *Quercus* and other trees, Monserrate, Sintra; near Mangualde; Amarante, etc.

Strophariaceae

Hypholoma ericaeum (PERS. ex FR.) KÜHNER — short turf, Curral das Marias, Serra da Estrela.

Hypholoma fasciculare (HUDS. ex FR.) KUMMER — on *Betula*, Amarante-Vila Real road.

Hypholoma udum (PERS. ex FR.) KÜHNER — Serra do Marão, between Mesão Frio & Amarante.

Psilocybe coprophila (BULL. ex FR.) KUMMER — on rabbit droppings, Curral das Marias, Serra da Estrela.

Psilocybe semilanceata (FR.) KUMMER — short turf, Curral das Marias, Serra da Estrela.

Pholiota gummosa (LASCH) SINGER (*Flammula*) — sandy soil beside Rio Tâmega, Amarante.

Corfinariaceae

Hebeloma crustuliniforme (FR.) QUEL. — deciduous woods of Serra da Estrela; under *Abies* etc. at the Casa dos Cantoneiros, Vila Real-Amarante road.

- Hebeloma fastibile* (PERS. ex FR.) KUMMER sensu KONRAD & MAUBLANC — under *Castanea* near Poço do Inferno, Serra da Estrela.
- Inocybe calamistrata* (FR.) GILLET — under *Abies* at the Casa dos Cantoneiros, Vila Real-Amarante road.
- Inocybe globocystis* VEL. — woods beside Rio Tâmega, Amarante.
- Inocybe lacera* (FR.) KUMMER — woods beside Rio Tâmega, Amarante.
- Inocybe maculata* BOUD. — woods and gardens, Serra da Estrela, Amarante, Monserate, Sintra.
- Alnicola escharoides* (FR.) ROMAGNESI — under *Alnus* beside Rio Tâmega, Amarante.
- Cortinarius (Dermocybe) cinnamomeus* (L. ex FR.) FR. — deciduous woods, Serra da Estrela.
- Cortinarius (Telamonia) hemitrichus* (PERS. ex FR.) FR. — wet ground under *Salix* etc., Viveiros, Amarante-Vila Real road.
- Cortinarius* sp, near *C. (Hydrocybe) krombholzii* FR. fide Mr. P. ORTON — under *Castanea* etc., Poço do Inferno, Serra da Estrela.
- Galerina clavata* (VEL.) KÜHNER — in wet places beside road, Serra do Marão, between Mesão Frio & Amarante.
- Galerina muricellospora* (ATK.) KÜHNER — in wet places beside the road from Mesão Frio to Amarante.

Rhodophyllaceae

- Nolanea fumosella* (WINTER) SACC. sensu LANGE — in wet moss beside Amarante-Vila Real road.
- Nolanea staurospora* BRES. — short grass, Curral das Marias, Serra da Estrela; in deciduous woods south of Manteigas.

Russulaceae

- Lurinus obscuratus* (LASCH) FR. sensu KÜHNER & ROMAGNESI (= *L. cyathula* FR. sensu LANGE) — under *Alnus* beside Rio Tâmega, Amarante.
- Russula fallax* (FR.) SACC. — woods beside Rio Tâmega, Amarante.

Paxillaceae

- Hygrophoropsis aurantiaca* ([WULF.] FR.) R. MAIRE — in short turf, Curral das Marias, Serra da Estrela.
- Paxillus involutus* (BATSCH ex FR.) FR. — woods beside Rio Tâmega, Amarante; Serra da Estrela south of Manteigas.

Boletaceae

- Suillus granulatus* (L. ex FR.) O. KUNTZE subsp. *leptopus* (PERS.) SINGER (= *Boletus bellini* INZ.) — under Pines, lawns of Instituto Superior d'Agronomia, Lisboa.
- Boletus reticulatus* SCHAEFF. ex. BOUD. — under *Acer* & *Castanea*, Serra da Estrela.

APHYLLOPHORALES

Aleurodiscus botryosus BURT on *Arbutus unedo*, Sintra.

Cyphella tephroleuca BRES. — on dead stems of *Phytolacca* beside Rio Tâmega, Amarante.

Gloeocystidium pallidum (BRES.) von HÖHN. & LITSCH. — on stump, Monserrate, Sintra.

Odontia lactea KARST. — on *Cryptomeria japonica*, Sintra.

Odontia cf. papillosa (FR.) BRES. — sterile material on bark of living *Tristania conferta*, Lisboa.

Peniophora aurantiaca BRES. — Serra da Arrábida.

Peniophora byssoidea (PERS.) von HÖHN. & LITSCH. — on debris of *Pinus pinaster*, Estoril.

Peniophora obscura (PERS.) BRES. subsp. *carbonicola* (PAT.) BOURD. & GALZ. var. *ravida* BOURD. & GALZ. — Serra da Arrábida.

Peniophora pubera (FR.) SACC. — on twigs, Monserrate, Sintra.

Peniophora roumeguerii BRES. — on *Prunus lusitânica*, Sintra.

Septobasidium alni TORREND — on *Fraxinus*, at the Viveiros, Amarante-Vila Real road.

Septobasidium sp. sterile, probably *S. michelianum* (CALD.) PAT. — on *Laurus*, Sintra.

Stereum hirsutum (FR.) FR. — Monserrate etc.

TREMELLALES

Sebacina calcea (PERS.) BRES. — on *Prunus lusitânica*, Sintra.

HYMENOGASTRALES

Rhizopogon luteolus FR. — sandy soil under *Pinus pinaster*, Estoril.

LYCOPERDALES

Lycoperdon ericetorum PERS. — lawns, Instituto Superior d'Agronomia, Lisboa; short grass in Curral das Marias, Serra da Estrela.

SCLERODERMATALES

Pisolithus tinctorius (PERS.) COKER & COUCH — sandy soil under *Pinus pinaster*, Estoril.

Scleroderma geaster FR. — on bare granitic soil near Poço do Inferno, Serra da Estrela.

Scleroderma verrucosum PERS. — Sintra; in short turf of Curral das Marias, Serra da Estrela.

PEZIZALES.

Pezizaceae

Peziza badia PERS. ex. FR. — on bare wet soil near Poço do Inferno, Serra da Estrela.

Humariaceae

Scutellinia hirtella (REHM) O. KUNTZE — on bare wet soil among mosses round a spring, Serra do Marão between Mesão Frio & Amarante.

HELOTIALES

Helotiaceae

Helotium scutula (PERS. ex FR.) KARST. var. *menthae* PHILL. on dead stem of *Phytolacca* beside Rio Tâmega, Amarante.

Chaetia cyathoidea (BULL. ex. FR.) GILL. var. *albidula* (HEDW. ex. KARST.) REHM — on dead stem of *Phytolacca* beside Rio Tâmega, Amarante.

Hyaloscyphaceae

Dasyyscypha apala (BERK. & BR.) DENNIS — on *Juncus*, Serra do Marão between Mesão Frio & Amarante.

PHACIDIALES

Coccomyces dentatus (KUNZE & SCHMIDT) SACC. on *Castanea* — Amarante-Vila Real road.

Naemacyclus niveus (PERS. ex FR.) SACC. — on fallen needles of *Pinus pinaster*, 8 km. S. E. of Mangualde.

Rhytisma salicinum FR. — on *Salix atrocinerea* at the Casa Cantoneiros, Vila Real-Amarante road.

SPHAERIALES

Ophionectria cerea (BERK. & CURT.) ELL. & EV. (Conidial state) — Serra da Arrábida.

Hypoxylon rubiginosum (PERS. ex FR.) FR. — Serra da Arrábida.

Hypoxylon serpens (PERS. ex FR.) FR. — on *Prunus lusitanica*, Sintra.

Phyllachora graminis (PERS. ex FR.) FÜCK. — on *Brachypodium silvaticum*, Serra do Marão.

Trichosphaeria myriocarpa (FR.) PETRAK & SYDOW — Serra da Arrábida.

HYSTERIALES

Hysteroglyphium fraxini (PERS. ex FR.) DE NOT. — on *Fraxinus* at the Viveiros, Amarante-Vila Real road.

Endogonaceae

Endogone lactiflua BERK. — wet soil beside Rio Tâmega, Amarante (Confirmed by Dr. L. E. HAWKER).

HYPHOMYCETALES

Acrostalagmus cinnabarinus CORDA — on umbelliferous stem, Amarante-Vila Real road.

Papularia sphaerosperma (PERS. ex FR.) von HÖHN. — on *Arundo donax*, opposite Abrantes.

Trichoderma viride PERS. ex FR. — on decorticated wood. Serra da Arrábida.

Triposporium cambrense HUGHES — on sticks, Sintra.

In addition to the previously known fungi listed above, the banks of the Rio Tâmega yielded a minute Helotiaceous species which has not yet been identified with any described taxon, viz:

Pezizella lusitanica DENNIS spec. nov.

Apothecia sparsa, minuta, substipitata, cupulata demum expansa, subluteola, glabra, 0.4 mm lat.; excipulo ad basim parenchymaticè contexto, ad marginem pro-senchymatico, hyalino, hyphis ad marginem obtusis, 4 μ . crassis; ascis teretoclavatis,

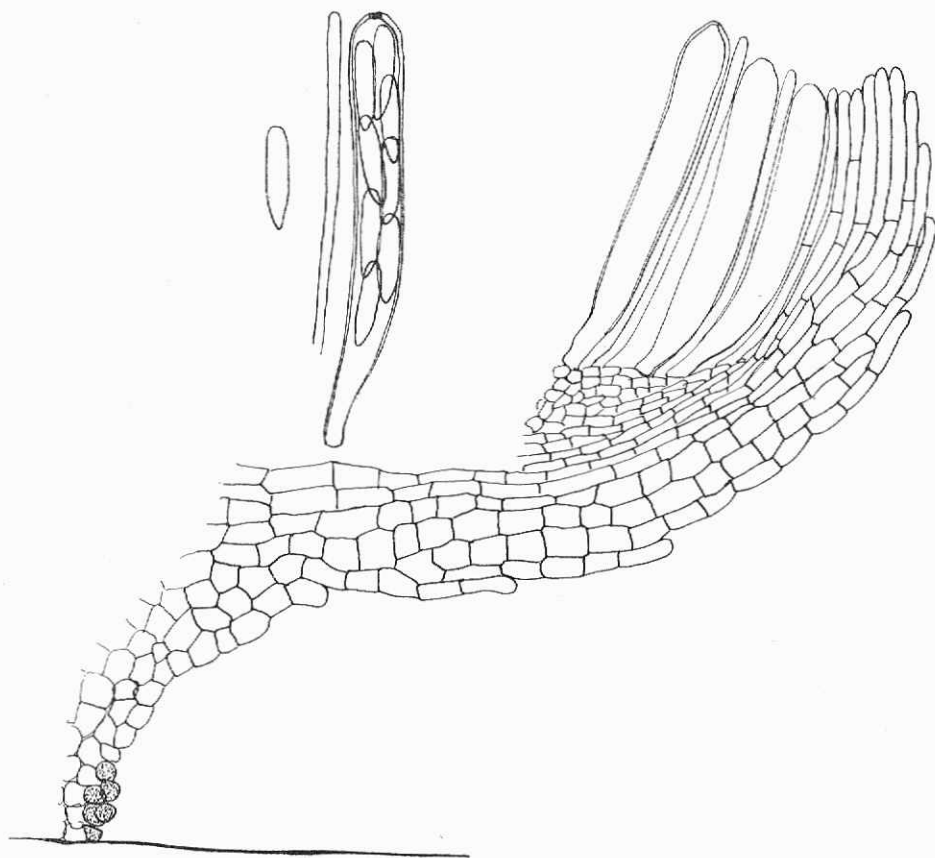


Fig. 1 — Radial section of apothecium of *Pezizella lusitanica* $\times 660$.

65 — 100 \times 9 — 11 μ , apice subtruncato-rotundatis, $J +$, octosporis; ascosporis distichis, oblongo-ellipsoideis, rectis, 18 — 19 \times 4 μ ; paraphysibus simplicibus, filiformibus, apicibus non incrassatis, 2 — 3 μ crassis. Hab. in basi caulium *Osmundae regalis*, Amarante, 18-10-1955.

This attractive little fungus resembles *Mollisia filicum* (PHIL.) PHIL. (= *Helotium amoenum* FAUTREY), from which it differs in its larger asci and spores, the positive iodine reaction of the ascus pore and the thinwalled excipular hyphae. In structure it has much in common with *Helotium herbarum* (PERS. ex FR.) FR. but is much smaller, less downy and has less fusiform nonseptate ascospores.