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New Records For The Fungal Flora of Turkey

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Abstract: The macrofungi species *Ganoderma carnosum* Pat. (*Ganodermataceae*), *Hygrophorus agathosmus* Fr.:Fr. (*Hygrophoraceae*), *Marasmius scorodoni* (Fr.:Fr.) Fr. (*Tricholomataceae*) and *Lentinellus cochleatus* (Pers.:Fr.) Karst. (*Auriscalpiaceae*) have been recorded for the first time from Turkey.

Key Words: Macrofungi, New records, Turkey.

Türkiye Mantar Florası İçin Yeni Kayıtlar

Özet: Bu çalışmada, makrofunguslardan *Ganoderma carnosum* Pat. (*Ganodermataceae*), *Hygrophorus agathosmus* Fr.:Fr. (*Hygrophoraceae*), *Marasmius scorodoni* (Fr.:Fr.) Fr. (*Tricholomataceae*) ve *Lentinellus cochleatus* (Pers.:Fr.) Karst. (*Auriscalpiaceae*) türleri Türkiye'den ilk defa kaydedilmiştir.

Anahtar Sözcükler: Makrofunguslar, Yeni kayıtlar, Türkiye.

Introduction

In 1996, some macrofungi specimens were collected from the western Black Sea region. The collection places of the macrofungi species are shown in Figure 1. After field and laboratory studies, four species belonging to four families were identified with the help of the relevant literature (1-4). These species are new records for the macrofungi flora of Turkey. The identified species with their descriptions, distributions, collected dates and herbarium numbers are given below. The macrofungi specimens were deposited in Yüzüncü Yıl University herbarium (Van).

The Descriptions of Species

Basidiomycetes

Ganodermataceae

1. *Ganoderma carnosum* Pat., figures 2-3.

Syn. *Ganoderma atkinsonii* Jahn.

Cap 4-20 cm across, rounded to oval or reniform to flabellate (Figure 2), both upper surface and stalk shiny as if lacquered, mahogany of blackish red, sometimes with concentric furrows, smooth, lower surface pale, greyish-white to cream, margin narrow, white when young, then yellowish to brown-red, concolorous with the



Figure 1. Study area.

pileal surface when old. Pores rounded, tubes 2 cm long. light brown, gray-brown. Stipe 5-20 cm, cylindrical to compressed, often nodulose, tapering toward the base, surface smooth, dark brown-red to black, when dry the fungus is very light in weight. Spores 11-13, 5x7, 5-8, 5µ, broadly elliptical, truncate, verrucose light brown, truncate with hyaline germination pore (Figure 3).

Zonguldak, Devrek, Tabaklar Village, on conifer stump. 13.08.1996, D. 770.

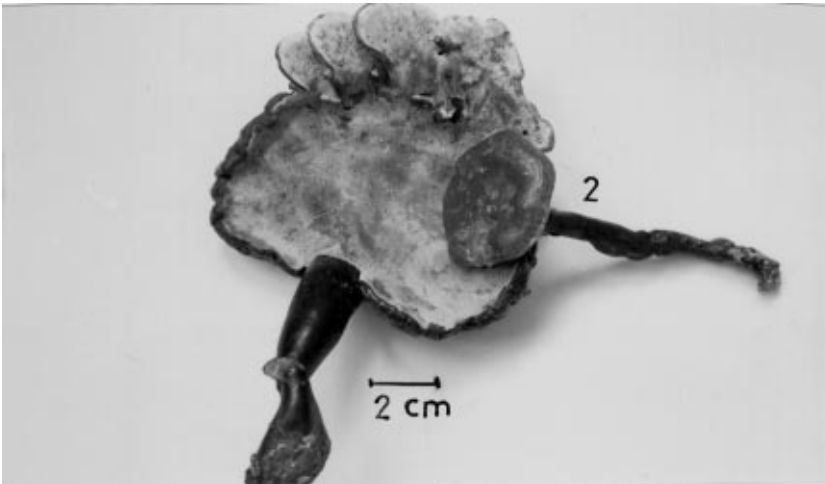


Figure 2. *Ganoderma carnosum*:
Basidiocarps.



Figure 3. *Ganoderma carnosum*:
Spores.

Hygrophoraceae

2. *Hygrophorus agathosmus* Fr.:Fr., figures 4-5.

Cap 4-8 cm across, at first convex-conic then more flattened, sometimes broadly umbonate, margin mostly

incurved (Figure 4), surface slimy when moist, viscid when dry, smooth, beige-gray to brownish-gray. Stipe 5-10 cm, cylindric, at times somewhat enlarged toward the base, white, light brownish in places, with small mealy

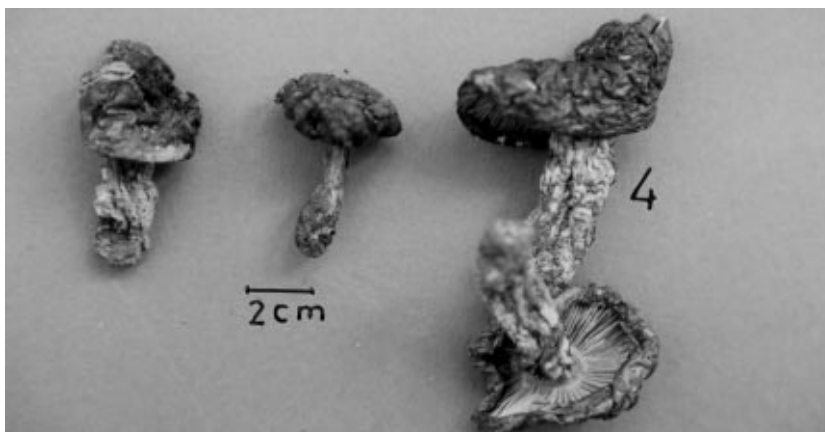


Figure 4. *Hygrophorus agathosmus*:
Basidiocarps.

granules towards the apex. Gills whitish to cream colored or grayish, decurrent, edges smooth. Flesh whitish, pale olive-gray under the cuticle, thick in the center, thin toward the margin. Spore print white. Spores 8-10x5-6 μ , ellipsoid (Figure 5), smooth, hyaline.

Karabük, Ovacık, Ekincik Village, on soil in a coniferous forest, 26.09.1996, D.851.

Tricholomataceae

3. *Marasmius scrodonius* (Fr.:Fr.) Fr., figures 6-7.

Syn. *Marasmius alliatus* (Schaeff.) Schroet.

Cap 1-3 cm across, hemispherical or convex when young, then flattened or slightly depressed, surface dull, smooth to finely wrinkled, pink to flesh-brownish (Figure 6). Stipe 3-6 cm, cylindric, slightly larger and brown-reddish toward the apex, increasingly darker toward the base, surface smooth, flesh cream-colored. Gills whitish to cream colored, narrow, adnexed to free, edges finely floccose. Flesh thin, whitish in cap, brownish in stem. Spore print white. Spores 6, 5-9x3-4, 5 μ , elongated-ellipsoid (Figure 7), smooth, hyaline.

Kastamonu, Araç, on dead leaves and conifer needles, 04.06.1996, D. 878.

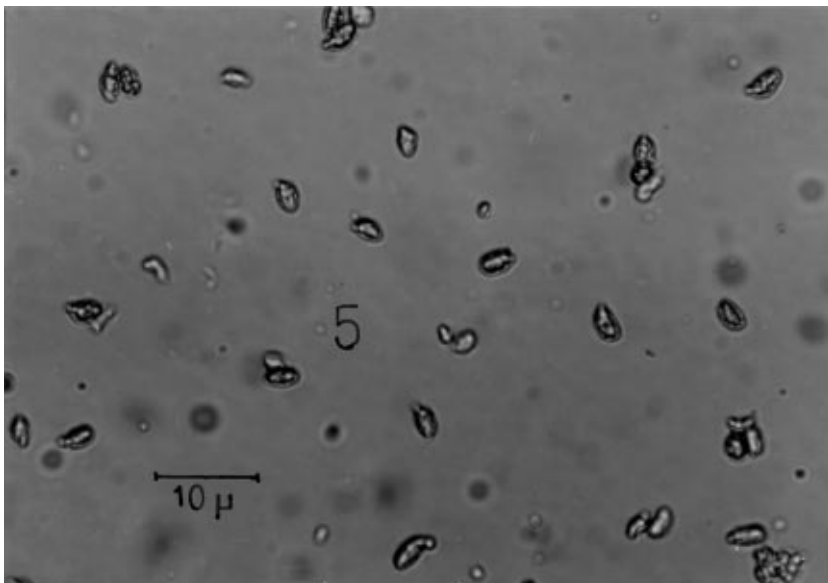


Figure 5. *Hygrophorus agathosmus*: Spores.



Figure 6. *Marasmius scrodonius*: Basidiocarps.

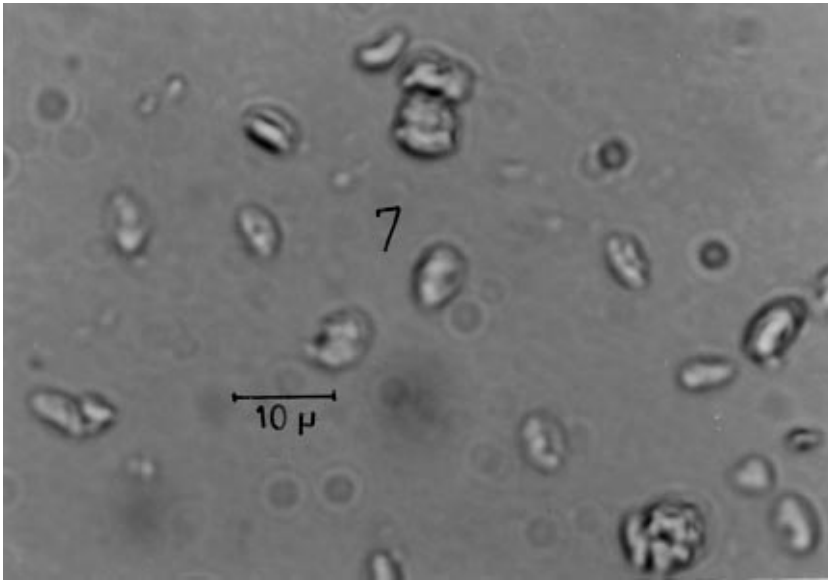


Figure 7. *Marasmius scorodoni*: Spores.

Auriscalpiaceae

4. *Lentinellus cochleatus* (Pers.:Fr.) Karst., figures 8-9.

Syn. *Lentinus cochleatus* (Pers.:Fr.) Fr.

Cap 2-6 cm across, irregularly ear or funnel shaped, often densely clustered (Figure 8) smooth, flesh-colored

to reddish-brown. Stem 2-5 cm, usually eccentric or lateral tapering downwards, often rooting, reddish-brown darkening towards the base. Gills deeply decurrent, pale flesh-colored. Spore white. Spores, 3,5-4x4, 5-5 μ , subspherical (Figure 9).

Zonguldak, Devrek, Tabaklar Village, on stumps of broadleaved trees, 13.08.1996, D. 772.

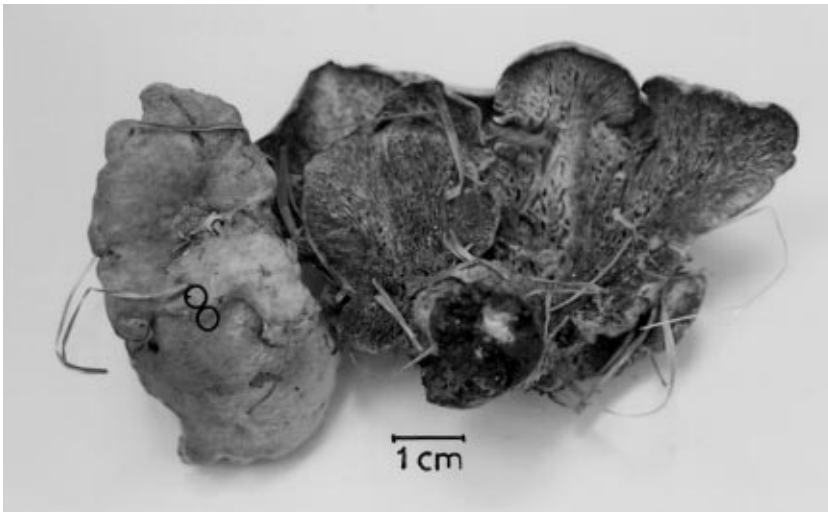


Figure 8. *Lentinellus cochleatus*: Basidiocarps.

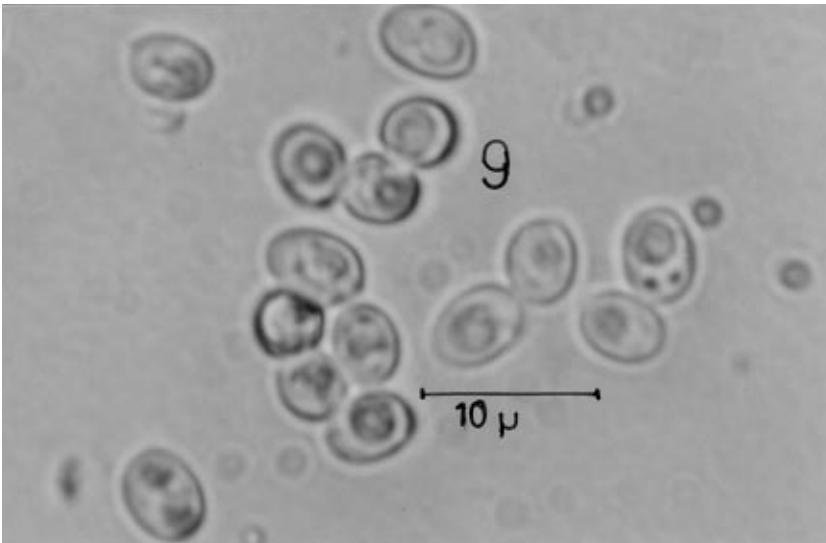


Figure 9. *Lentinellus cochleatus*: Spores.

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