

Contributions to the macrofungal diversity of Muğla province (Turkey)

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ABSTRACT — This study was conducted on specimens of macrofungi collected from Muğla province between 2005-2011. After field and laboratory studies, 211 taxa belonging to 47 families and 2 classes were identified. Five of them—*Cortinarius biformis*, *Cortinarius percomis*, *Cortinarius renidens*, *Geastrum lageniforme*, *Hebeloma aestivale*—represent new records for Turkey.

KEY WORDS — asocymycete, basidiomycete, biodiversity, mycobiota, fungal habitat

Introduction

Muğla province is located in south-west Turkey and bordered by the Mediterranean Sea to the south; Aegean Sea to the west; Aydın and Denizli provinces to the north; and Denizli, Burdur and Antalya provinces to the east (FIG. 1). Muğla has 1124 km coastline. A Mediterranean climate prevails in the province. The annual average temperature is 14.9 °C and the annual rainfall is about 1222 mm. *Pinus brutia* Ten., *P. nigra* J.F.Arnold, *P. pinea* L., *Cedrus libani* A.Rich., *Cupressus sempervirens* L., *Liquidambar orientalis* Mill., *Platanus* L spp., *Juniperus* L. spp and *Quercus* L. spp. in particular are very common tree taxa in the region.

The first taxonomical investigations on the macrofungi of Muğla were done by Allı and Işıloğlu (2000). More recently other researchers recorded many macrofungal taxa from different parts of Muğla (Işıloğlu 2001; Solak & Yılmaz Ersel 2003, 2005; Doğan et al. 2011; Güngör et al. 2013). In these earlier studies 219 taxa were reported from the province. The 346 taxa reported in the present paper include 127 newly recorded taxa for Muğla.

The study aims to determine the macrofungal diversity of the province and to make a contribution to the mycobiota of Turkey with new macrofungal records.



FIG. 1. Map of the study area

Materials & methods

The specimens of this study were collected from various localities within Muğla province between 2001 and 2011. The field studies were conducted mostly in autumn and spring, since during these periods the climatic conditions are suitable for the growth of carpophores of fleshy fungi. Carpophores were photographed in the field and collected for further study. Morphological and ecological characteristics were noted and spore prints obtained and photographed. Micrographs were taken using a Leica EC3 compound photo microscope. Some reagents (NH_4OH 10%, FeSO_4 10%, KOH 10%, distilled water, Melzer's reagent, KOH 5%, Congo red etc.) were used for investigation. All microscopical studies were carried out using the protocol of Breitenbach & Kränzlin (1991). Specimens were identified with the help of the following literature: Marchand (1971-1986), Watling (1982), Moser (1983), Breitenbach & Kränzlin (1984-2000), Cappelli (1984), Pacioni (1985), Watling & Gregory (1987, 1989), Riva (1988), Bresinsky & Besl (1990), Candusso & Lanzoni (1990), Ellis & Ellis (1990), Hansen & Knudsen (2000), Ladurner & Simonini (2003), Kränzlin (2005), Muñoz (2005), Roux (2006), Knudsen & Vesterholt (2008), Kibby (2012), Medardi (2012), and Beug et al. (2014). The new records for Turkey were checked with the relevant literature (Sesli & Denchev 2013, Akata & Doğan 2015, Türkoğlu & Castellano 2014, Uzun et al. 2014, Kaya 2015, Kaya & Uzun 2015, Sesli et al. 2015, Solak et al. 2007, 2015).

Results

In this study 211 taxa belonging to 47 families were identified from Muğla province. Twenty taxa belong to *Ascomycota* and 191 to *Basidiomycota*. All these taxa are presented with their localities, habitats, collection dates, and accession numbers. Nomenclature, distributions of the taxa to the families are given according to Kirk et al. (2008), Sesli & Denchev (2014) and Index Fungorum (www.indexfungorum.org; accessed 25 August 2015). New records for Turkish mycobiota are marked by an asterisk (*).

Ascomycota Caval.-Sm.

Discinaceae Benedix

1. *Gyromitra esculenta* (Pers.) Fr.
Muğla, Kestane Dağı, in *P. brutia* forest, 5.4.2007, Solak 3119.

Helvellaceae Fr.

2. *Helvella acetabulum* (L.) Quéf.
Seydikemer, Arsa village, in *Pinus* sp. forest, Solak 2078; Yatağan, Şahinler village, in meadow, 15.4.2006, Solak 2062; in meadow, 1.4.2006, Solak 1937.
3. *Helvella crispa* (Scop.: Fr.) Fr.
Fethiye, Üzümlü, in *P. brutia* forest, 21.02.2009, Allı 3324.
4. *Helvella lacunosa* Afzel.
Yatağan, in meadow, 1.4.2006, Solak 1938; Ula, Çiçekli village, in *Pinus* sp. forest, 30.3.2006, Solak 1892.
5. *Helvella leucomelaena* (Pers.) Nannf.
Fethiye, Yaylapalamut village, in *Pinus* sp. forest, 16.4.2006, Solak 2082; Ardıçlı burnu village, in *Pinus* sp. forest, 16.4.2006, Solak 2080; in *Pinus* sp. forest, 18.3.2006, Solak 1760; Seydikemer, Geriş Burnu, in *Pinus* sp. forest, 18.3.2006, Solak 1773; Arsa village, in *Pinus* sp. forest, 16.4.2006, Solak 2079; Ula, Çiçekli village, in *Pinus* sp. forest, 30.3.2006, Solak 1896; Yatağan, Yeniköy, in cemetery, 19.3.2006, Solak 1780; in meadow, 1.4.2006, Solak 1926.

Morchellaceae Rchb.

6. *Morchella angusticeps* Peck
Muğla, Yaraş village, in *Pinus* sp. forest, 17.4.2001, Solak 8.
7. *Morchella costata* (Vent.) Pers.
Fethiye, in *Pinus* sp. forest, 18.3.2006; Solak 1758.
8. *Morchella crassipes* (Vent.) Pers.
Ula, Yaylasöğüt village, in *Pinus* sp. forest, 9.4.2002, Solak 104.

9. *Morchella deliciosa* Fr.
Dalaman, Osmaniye village, in *Pinus* sp. forest, 15.4.2002. Solak 82.
10. *Morchella elata* Fr.
Dalaman, Osmaniye village, in *Pinus* sp. forest, 15.4.2001. Solak 81;
Fethiye, Bağlıbağ village, under myrtle, 16.4.2006, Solak 2075; Milas,
Sakarkaya village, in *Pinus* sp. forest, 11.4.2001, Solak 46; Muğla, in
Pinus sp. forest, 5.4.2007, Solak 3118; Ula, Gölcük village, in *Pinus* sp.
forest, 11.4.2001, Solak 5.
11. *Morchella elatoides* Jacquet.
Muğla, Yaraş village, in *Pinus* sp. forest, 17.4.2001, Solak 63.
12. *Morchella esculenta* (L.) Pers.
Fethiye, in *Pinus* sp. forest, 18.3.2006; Solak 1759; Milas, Sakarkaya
village, in *Pinus* sp. forest, 10.4.2001, Solak 3; Muğla, Yaraş village, in
Pinus sp. forest, 9.4.2002, Solak 16; Seydikemer, Geriş Burnu, in *Pinus*
sp. forest, 18.3.2006, Solak 1764; Ula, Yaylasöğüt village, in *Pinus* sp.
forest, 9.4.2002, Solak 106A.
13. *Morchella eximia* Boud.
Dalaman, Osmaniye village, in *Pinus* sp. forest, 15.4.2001, Solak 7;
Ula, Kestane Dağı, in *Pinus* sp. forest, 9.4.2002, Solak 88.
14. *Morchella hortensis* Boud.
Ula, Gölcük village, in *Pinus* sp. forest, 11.4.2001, Solak 31.
15. *Morchella inamoena* Boud.
Fethiye, Üzümlü, in *P. brutia* forest, 14.4.2001, Solak 6.
16. *Morchella pseudoviridis* Jacquet.
Milas, Sakarkaya village, in *Pinus* sp. forest, 10.4.2001, Solak 42.

***Pezizaceae* Dumort.**

17. *Sarcosphaera coronaria* (Jacq.) J. Schröt.
Seydikemer, Geriş Burnu, in *Pinus* sp. forest, 18.3.2006, Solak 1763;
Arsa village, in *Pinus* sp. forest, 16.4.2006, Solak 2077; Ula, Kestane
Dağı, in *Pinus* sp. forest, 5.4.2007, Solak 3120; Yatağan, in meadow,
1.4.2006, Solak 1941.

***Pyronemataceae* Corda**

18. *Tarzetta catinus* (Holmsk.) Korf & J.K. Rogers
Ula, Çiçekli, in *Pinus* sp. forest, 30.3.2006, Solak 1893.
19. *Trichophaea woolhopeia* (Cooke & W. Phillips) Boud.
Fethiye, Yaylakoru village, in *Pinus* sp. forest, 9.11.2006, Solak 2713.

***Sarcoscyphaceae* Le Gal ex Eckblad**

20. *Sarcoscypha coccinea* (Gray) Boud.
Fethiye, Üzümlü, in *P. brutia* forest, 21.02.2009, Allı 3325.

Basidiomycota R.T. Moore**Agaricaceae** Chevall.

21. *Agaricus bisporus* (J.E. Lange) Imbach
Ula, center, in field, 15.10.2006, Solak 2184.
22. *Agaricus campestris* L.
Ula, center, in garden, 29.9.2006, Solak 2179; 16.5.2006, Solak 2168;
in field, 15.10.2006, Solak 2186.
23. *Agaricus comtulus* Fr.
Fethiye, Kargı village, in meadow, 11.11.2007, Solak 3345; Çengelköy,
Belenkavak place, in *Pinus* sp. forest, 11.11.2007, Solak 3399; Ula,
Çiçekli village, in *Pinus* sp. forest, 27.11.2007, Solak 3489.
24. *Agaricus cupreobrunneus* (Jul. Schäff. & Steer) Pilát
Ula, Yayla place, in garden, 16.10.2005, Solak 1548.
25. *Agaricus pampeanus* Speg.
Ula, Yayla place, in garden, 16.10.2005, Solak 1547.
26. *Agaricus pilatianus* (Bohus) Bohus
Ula, Çiçekli village, in *Pinus* sp. forest, 27.11.2007, Solak 3488.
27. *Agaricus porphyrizon* P.D. Orton
Fethiye, Arpacık village, Gedre district, Akçaoluk place, in *Pinus* sp.
forest, 4.11.2006, Solak 2615.
28. *Agaricus semotus* Fr.
Fethiye, Arpacık village, Gedre district, Akçaoluk place, in *Pinus* sp.
forest, 4.11.2006, Solak 2603.
29. *Agaricus xanthodermus* Genev.
Fethiye, Arpacık village, Gedre district, Akçaoluk place, in *Pinus* sp.
forest, 4.11.2006, Solak 2614.
30. *Bovista plumbea* Pers.
Fethiye, Çengelköy, Ok kayası place, in *Pinus* sp. forest, 11.11.2007,
Solak 3388; Arpacık village, Ovacık place, in *Pinus* sp. forest,
27.5.2008, Solak 3774; Ula, Yayla place, in garden, 16.10.2005, Solak
1549; Çiçekli village, in *Pinus* sp. forest, 30.3.2006, Solak 1897.
31. *Coprinus comatus* (O.F. Müll.) Pers.
Yatağan, in meadow, 1.4.2006, Solak 1922.
32. *Cystoderma amianthinum* (Scop.) Fayod
Fethiye, Yaylakoru village, in *Pinus* sp. forest, 9.11.2006, Solak 2706;
2711.
33. *Cystoderma granulosum* (Batsch) Fayod
Fethiye, Arpacık village, Gedre and Yemişen district, Ovacık place, in
Quercus sp. forest, 4.11.2006, Solak 2588.

34. *Cystoderma superbum* Huijsman
Muğla, Fethiye, Babadağ, in mixed forest, 9.11.2006, Solak 2744.
35. *Cystodermella cinnabarina* (Alb. & Schwein.) Harmaja
Fethiye, Arpacık village, Gedre district, Yemişen place, in *Pinus* sp. forest, 4.11.2006, Solak 2581.
36. *Lepiota ignivolvata* Bousset & Joss. ex Joss.
Fethiye, Babadağ, in mixed forest, 9.11.2006, Solak 2747; Çengelköy, Belenkavak place, in *Pinus* sp. forest, 11.11.2007, Solak 3400; Ula, Çiçekli village, in *Pinus* sp. forest, 27.11.2007, Solak 3495.
37. *Lepiota magnispora* Murrill
Fethiye, Arpacık village, Gedre district, Akçaoluk place, in *Pinus* sp. forest, 4.11.2006, Solak 2626.
38. *Lycoperdon excipuliforme* (Scop.) Pers.
Fethiye, Çengelköy, Ok kayası place, in *Pinus* sp. forest, 11.11.2007, Solak 3380.
39. *Lycoperdon perlatum* Pers.
Fethiye, Esenköy, in *P. pinea* forest, 20.10.2006. Solak 2246; Arpacık village, Gedre district, Yemişen place, in *Pinus* sp. forest, 4.11.2006, Solak 2598; Yaylakoru village, in *Pinus* sp. forest, 9.11.2006, Solak 2723; Yatağan-Milas way, in *P. brutia* forest, 3.12.2005, Solak 1729.
40. *Macrolepiota mastoidea* (Fr.) Singer
Fethiye, Arpacık village, Gedre district, Ovacık place, in *Pinus* sp. forest, 11.11.2006, Solak 2756.
41. *Macrolepiota procera* (Scop.) Singer
Fethiye, Yaylakoru village, in *Cedrus* sp. forest, 14.11.2005, Solak 1645; in *Pinus* sp. forest, 9.11.2006, Solak 2712.

Amanitaceae R. Heim ex Pouzar

42. *Amanita argentea* Huijsman
Fethiye, Esenköy, in *Pinus* sp. forest, 20.10.2006. Solak 2229.
43. *Amanita eliae* Quél.
Fethiye, Esenköy, in *Pinus* sp. forest, 20.10.2006. Solak 2234.
44. *Amanita ovoidea* (Bull.) Link
Fethiye, Bağlıaç village, in *Pinus* sp. forest, 1.12.2007, Solak 3536; Seydikemer, Arsa village, in *Pinus* sp. forest, 21.10.2006, Solak 2262.
45. *Amanita vaginata* (Bull.) Lam.
Ula, pond, in *Pinus* sp. forest, 26.10.2006, Solak 2280.

Auriculariaceae Fr.

46. *Auricularia mesenterica* (Dicks.) Pers.
Fethiye, Kayadibi village, Yaka Doğa park, on cut tree, 18.3.2006,
Solak 1790; Yatağan, Turgut, on *Quercus* sp. stump, 20.10.2006, Solak
2201.

Bankeraceae Donk

47. *Boletopsis leucomelaena* (Pers.) Fayod
Fethiye, Arpacık village, Gedre district, Akçaoluk place, in *Cedrus* sp.
forest, 12.11.2005, Solak 1591.
48. *Sarcodon scabrosus* (Fr.) P. Karst.
Ula, center, in *Pinus* sp. forest, 10.11.2006, Solak 2751.
49. *Sarcodon squamosus* (Schaeff.) Quél.
Fethiye, Yaylakoru village, Beşkavak place, in *Cedrus* sp. forest,
14.11.2005, Solak 1686.

Bolbitiaceae Singer

50. *Bolbitius titubans* (Bull.: Fr.) Fr.
Fethiye, Esenköy, in *P. brutia* forest, 20.10.2006. Solak 2251;
Ölüdeniz, in *P. brutia* forest, 22.02.2009, Allı 3313.
51. *Conocybe apala* (Fr.) Arnolds
Ula, in garden, 17.9.2008, Solak 3777.

Boletaceae Chevall.

52. *Boletus queletii* Schulzer
Ula, center, in *Pinus* sp. forest, 10.11.2006, Solak 2752.
53. *Boletus speciosus* Frost.
Ula, Ova, in meadow, 26.7.2006, Solak 2175.
54. *Xerocomellus chrysenteron* (Bull.) Šutara
Fethiye, Üzümlü, in field, 2.11.2008, Solak 3942.

Cortinariaceae R. Heim ex Pouzar

55. **Cortinarius biformis* Fr.
Fethiye, Arpacık village, Gedre district, Maden Damı place, in *Pinus* sp.
forest, 8.11.2006. Solak 2681.
56. *Cortinarius durus* P.D. Orton
Fethiye, Arpacık village, Gedre district, Karaoluk place, in *Cedrus* sp.
forest, 8.11.2006, Solak 2654.
57. *Cortinarius elegantissimus* Rob. Henry
Fethiye, Arpacık village, Gedre district, Karaoluk place, in *Cedrus* sp.
forest, 8.11.2006, Solak 2661.

58. *Cortinarius meinhardii* Bon
Fethiye, Arpacık village, Gedre district, Akçaoluk place, in *Pinus* sp. forest, 8.11.2006, Solak 2671; Maden Damı place, in *Pinus* sp. forest, 8.11.2006, Solak 2694; Babadağ, in *Pinus* sp. forest, 9.11.2006, Solak 2735.
59. *Cortinarius moenne-loccozii* Bidaud
Fethiye, Arpacık village, Gedre district, Akçaoluk place, in *Pinus* sp. forest, 4.11.2006, Solak 2635.
60. **Cortinarius percomis* Fr.
Fethiye, Arpacık village, Gedre district, Akçaoluk place, in *Pinus* sp. forest, 8.11.2006, Solak 2669.
61. **Cortinarius renidens* Fr.
Fethiye, Arpacık village, Gedre district, Akçaoluk place, in *Pinus* sp. forest, 4.11.2006, Solak 2630.
62. *Cortinarius subbalaustinus* Rob. Henry
Fethiye, Arpacık village, Gedre district, Akçaoluk place, in *Pinus* sp. forest, 4.11.2006, Solak 2629.
63. *Cortinarius tabacinus* P.D. Orton
Fethiye, Arpacık village, Gedre district, Maden Damı place, in *Pinus* sp. forest, 8.11.2006, Solak 2681.
64. *Cortinarius triumphans* Fr.
Fethiye, Arpacık village, Gedre district, Akçaoluk place, in *Pinus* sp. forest, 4.11.2006, Solak 2601.
65. *Cortinarius trivialis* J.E. Lange
Fethiye, Arpacık village, Gedre district, Yemişen place, in *Quercus* sp. forest, 4.11.2006, Solak 2594.
66. *Galerina moelleri* Bas
Fethiye, Arpacık village, Gedre district, Maden Damı place, in *Pinus* sp. forest, 8.11.2006, Solak 2690.
67. **Hebeloma aestivale* Vesterh.
Fethiye, Arpacık village, Ovacık place, in *Pinus* sp. forest, 11.11.2006, Solak 2760.
68. *Hebeloma laterinum* (Batsch) Versterh.
Fethiye, Arpacık village, Gedre district, Akçaoluk place, in *Pinus* sp. forest, 8.11.2006, Solak 2668; Yemişen place, in *Quercus* sp. forest, 4.11.2006, Solak 2587.

69. *Hebeloma sarcophyllum* (Peck) Sacc.
Fethiye, Arpacık village, Gedre district, Meşelisedir place, in *Pinus* sp. forest, 8.11.2006, Solak 2702.
70. *Hebeloma theobrominum* Quadr.
Fethiye, Çengelköy, Ok kayası place, in *Pinus* sp. forest, 11.11.2007, Solak 3383.

Diplocystidiaceae Kreisel

71. *Astraeus hygrometricus* (Pers.) Morgan
Yatağan-Turgut way 4 km, 20.10.2006, Solak 2194.

Entolomataceae Kotl. & Pouzar

72. *Entoloma lepidissimum* (Svrček) Noordel
Ula, Çiçekli village, in *Pinus* sp. forest, 27.11.2007, Solak 3487.
73. *Entoloma sericeum* Quéél.
Fethiye, Babadağ, in *Pinus* sp. forest, 9.11.2006, Solak 2733.

Fomitopsidaceae Jülich

74. *Antrodia malicola* (Berk. & M.A. Curtis) Donk
Seydikemer, Geriş Burnu, in *Pinus* sp. forest, on pine stump, 18.3.2006, Solak 1767.
75. *Daedalea quercina* (L.) Pers.
Fethiye, Arpacık village, Gedre district, Ovacık place, on *Quercus* sp. stump, 11.11.2006, Solak 2758.
76. *Laetiporus sulphureus* (Bull.) Murrill
Fethiye, Arpacık village, Gedre district, Yemişen place, in *Quercus* sp. forest, 15.10.2006, Solak 2187; Ula, center, on plum tree, 2.10.2006, Solak 2108.
77. *Phaeolus schweinitzii* (Fr.) Pat.
Fethiye, Arpacık village, Gedre district, Yemişen-Kırgeçdik place, in *Pinus* sp. forest, on, 14.10.2008, Solak 3785; Muğla, Yaraş, in *Pinus* sp. forest, 22.1.2006, Solak 1753.

Ganodermataceae Donk

78. *Ganoderma applanatum* (Pers.: Wallr.) Pat.
Ula, center, on mulberry, 12.12.2005; Ova, on cut tree, 26.7.2006, Solak 2176; Çiçekli village, on cut tree, 27.11.2007, Solak 3502.
79. *Ganoderma orbiforme* (Fr.) Ryvarden
Ula, center, on *Quercus* sp. stump, 25.11.2006, Solak 2792; on *Quercus* sp. stump, 23.11.2007, Solak 3445.

***Geastraceae* Corda**

80. *Geastrum berkeleyi* Massee
Fethiye, Çengelköy, Belenkavak place, in *Pinus* sp. forest, 11.11.2007, Solak 3403.
81. *Geastrum fimbriatum* Fr.
Fethiye, Üzümlü, in *P. brutia* forest, 21.02.2009, Allı 3317; Babadağ, in mixed forest, 9.11.2006, Solak 2748.
82. **Geastrum lageniforme* Vittad.
Fethiye, Çengelköy, Belenkavak place, in *Pinus* sp. forest, 11.11.2007, Solak 3397.
83. *Geastrum triplex* Jungh.
Fethiye, Arpacık village, Gedre district, Yemişen place, in *Quercus* sp. forest, 4.11.2006, Solak 2592; Kargı village, in *Pinus* sp. forest, 11.11.2007, Solak 3347; Çengelköy, Ok kayası place, in *Pinus* sp. forest, 11.11.2007, Solak 3390.

***Gomphaceae* Donk**

84. *Gomphus clavatus* (Pers.) Gray
Fethiye, Arpacık village, Gedre district, in *Cedrus* sp. forest, 14.11.2005, Solak 1115; Karaoluk place, in *Cedrus* sp. forest, 8.11.2006, Solak 2652; Karatepe place, in *Cedrus* sp. forest, 9.10.2005, Solak 1542; 12.11.2005, Solak 1578; Camızcı düzü place, in *Cedrus* sp. forest, 12.11.2005, Solak 1603b; in *Cedrus* sp. forest, 14.11.2005, Solak 1115; Yaylakoru village, in *Cedrus* sp. forest, 14.11.2005, Solak 1647.
85. *Ramaria aurea* (Schaeff.) Quél.
Fethiye, Arpacık village, Gedre district, Karaoluk place, in *Cedrus* sp. forest, 8.11.2006, Solak 2660; Akçaoluk place, in *Cedrus* sp. forest, 4.11.2006, Solak 2607; Yaylakoru village, in *Cedrus* sp. forest, 09.11.2005, Solak 2717.
86. *Ramaria botrytis* (Pers.) Ricken
Fethiye, Arpacık village, Gedre district, Akçaoluk place, in *Cedrus* sp. forest, 4.11.2006, Solak 2605; in *Cedrus* sp. forest, 08.11.2006, Solak 2670; Yaylakoru village, in *Pinus* sp. forest, 09.11.2006, Solak 2709.
87. *Ramaria flava* (Schaeff.: Fr.) Quél.
Fethiye, Yaylakoru village, in *Cedrus* sp. forest, 14.11.2005, Solak 1651.
88. *Ramaria fennica* (P. Karst.) Ricken
Fethiye, Arpacık village, Gedre district, Akçaoluk place, in *Cedrus* sp. forest, 4.11.2006, Solak 2606.

Gomphidiaceae Maire ex Jülich

89. *Chroogomphus rutilus* (Schaeff.) O.K. Mill.
Fethiye, Arpacık village, Gedre district, Meşeli sinir place, in *Cedrus* sp. forest, 12.11.2005, Solak 1610; Yemişen place, in *Pinus* sp. forest, 4.11.2006, Solak 2580; Yaylakoru village, in *Cedrus* sp. forest, 14.11.2005, Solak 1659; Çukurincir, in *Pinus* sp. forest, 10.11.2007, Solak 3309; Çengelköy, Yürekli place, in *Pinus* sp. forest, 11.11.2007, Solak 3370; Bağlağaç, in *Pinus* sp. forest, 1.12.2007, Solak 3559; Yatağan, Şahinler village, in *Pinus* sp. forest, 3.12.2005, Solak 1711; Yatağan-Milas way 3 km, in *P. brutia* forest, 3.12.2005, Solak 2721.

Hericiaceae Donk

90. *Hericium erinaceus* (Bull.) Pers.
Fethiye, Arpacık village, Ovacık, Kemerbağ place, on *Quercus* sp., 15.5.2008, Solak 3772.

Hydnaceae Chevall.

91. *Hydnum repandum* L.
Fethiye, Üzümlü, in *P. brutia* forest, 21.02.2009, Allı 3328; 21.02.2009, Solak 4122.

Hydnangiaceae Gäum. & C.W. Dodge

92. *Laccaria ohiensis* (Mont.) Singer
Yatağan, Milas way, in *P. brutia* forest, 3.12.2005, Solak 1725.

Hygrophoraceae Lotsy

93. *Hygrocybe conica* (Schaeff.) P. Kumm.
Fethiye, Kavaklı village, in *Pinus* sp. forest, 2.12.2007, Solak 3641.
94. *Hygrocybe psittacina* (Schaeff.) P. Kumm.
Ula, Çiçekli, in *P. brutia* forest, 30.3.2006, Solak 1899.
95. *Hygrophorus chrysodon* (Batsch) Fr.
Fethiye, Arpacık village, Gedre district, Akçaoluk place, in *Cedrus* sp. forest, 04.11.2006, Solak 2609; in *Pinus* sp. forest, 12.11.2005, Solak 2624; in *Pinus* sp. forest, 04.11.2006, Solak 2613; in *Cedrus* sp. forest, 08.11.2006, Solak 2659; Maden Damı place, in *Pinus* sp. forest, 08.11.2006, Solak 2687.
96. *Hygrophorus eburneus* (Bull.) Fr.
Fethiye, Yaylakoru village, in *Pinus* sp. forest, 9.11.2006, Solak 2710.
97. *Hygrophorus ligatus* (Fr.) Fr.
Fethiye, Arpacık village, Gedre district, Yemişen district, Ovacık place, in *Quercus* sp. forest, 04.11.2006, Solak 2586.

Hymenochaetaceae Imazeki & Toki

98. *Inonotus hispidus* (Bull.) P. Karst.
Fethiye, Kavaklı village, on *Pinus* sp. stump, 2.12.2007, Solak 3644;
Ula, pond, on *Pinus* sp. stump 26.10.2006, Solak 2281; on tree root,
5.11.2008, Solak 3946; Ula, Çiçekli village, on tree, 27.11.2007, Solak
3511.
99. *Phellinus pini* (Brot.) Bondartsev & Singer
Fethiye, Arpacık village, Gedre district, Akçaoluk place, in *Cedrus* sp.
forest, on, 12.11.2005, Solak 1567; Kırmızı viraj place, in *Pinus* sp.
forest, 8.11.2006, Solak 2676; Yaylakoru village, Beşkavak place, in
Cedrus sp. forest, 14.11.2005, Solak 1679.
100. *Phellinus torulosus* (Pers.) Bourdot & Galzin
Fethiye, Arpacık village, on margosa tree, 24.4.2008, Solak 3766;
Ardovacık place, on root of shrub, 13.10.2008, Solak 3784; Ula, Çiçekli
village, on wood, 27.11.2007, Solak 3524.

Inocybaceae Jülich

101. *Inocybe bongardii* (Weinm.) Quéf.
Fethiye, Üzümlü, in *P. brutia* forest, 21.02.2009, Allı 3323.
102. *Inocybe fuscomarginata* Kühner
Fethiye, Üzümlü, in *P. brutia* forest, 21.11.200, Solak 4124.
103. *Inocybe geophylla* (Bull.) P. Kumm.
Fethiye, Üzümlü, in *P. brutia* forest, 21.11.2009, Solak 4088.
104. *Inocybe leioccephala* D.E. Stuntz
Fethiye, Kemer, Ortaköy, in meadow, 21.11.2009, Solak 4130;
Seydikemer, Geriş burnu, in *P. brutia* forest, 2.12.2007, Solak 3590.
105. *Inocybe maculipes* J. Favre
Fethiye, near stream, in *P. brutia* forest, 10.11.2007, Solak 3300;
Üzümlü, in *P. brutia* forest, 21.11.2009, Solak 4104.
106. *Inocybe phaeoleuca* Kühner
Fethiye, Üzümlü, in *P. brutia* forest, 21.11.2009, Solak 4119; in
meadow, 21.11.2009, Solak 4101.
107. *Inocybe ramosa* Bull.) P. Kumm.
Fethiye, Babadağ, in *P. brutia* forest, 9.11.2006, Solak 2738; Kemer,
Ortaköy, in meadow, 21.11.2009, Solak 4128; Ortaköy, in meadow,
21.11.2009, Solak 4133; Arpacık village, Gedre district, Akçaoluk
place, in *P. brutia* forest, 4.11.2006, Solak 2636; Yaylakoru village, in
P. brutia forest, 9.11.2006, Solak 2705; Kargı village, 11.11.2007,
Solak 3353; Ula, in *P. brutia* forest, 15.11.2006, Solak 2785.
108. *Inocybe vaccina* Kühner
Muğla, Gülağzı village, in *P. brutia* forest, 22.11.2009, Solak 4152.

Lyophyllaceae Jülich

109. *Lyophyllum connatum* (Schumach.) Singer
Fethiye, Arpacık village, Gedre district, Yemişen place, 4.11.2006, Solak 2578.
110. *Lyophyllum decastes* (Fr.) Singer
Fethiye, Arpacık village, Gedre district, Yemişen place, in *Pinus* sp. forest, 4.11.2006, Solak 2579; Akçaoluk turnout, in *Pinus* sp. forest, 8.11.2006, Solak 2663; Yatağan, in meadow, 1.4.2006, Solak 1920; Yatağan, 15.4.2006, Solak 2064.

Marasmiaceae Roze ex Kühner

111. *Marasmius oreades* (Bolton) Fr.
Ula, Ova, 30.11.2005, Solak 1691; Ula, in meadow, 10.4.2007, Solak 3122; in high school garden, in meadow, 19.11.2007, Solak 3476.
112. *Marasmius wynnei* Berk. & Broome
Fethiye, Esenköy, in *P. brutia* forest, 20.10.2006, Solak 2239.

Mycenaceae Overeem

113. *Hemimycena pseudocrispula* (Kühner) Singer
Fethiye, Çengelköy, Ok kayası place, in *Pinus* sp. forest, 11.11.2007, Solak 3394; Seydikemer, Arsa village, in *P. brutia* forest, 21.10.2006, Solak 2265.
114. *Mycena abramsii* (Murrill) Murrill
Fethiye, Çukurincir, in *P. brutia* forest, 10.11.2007, Solak 3312.
115. *Mycena aetites* (Fr.) Quel.
Fethiye, Kargı village, in *P. brutia* forest, 11.11.2007, Solak 3344b; Çengelköy, Ok kayası place, in *P. brutia* forest, 11.11.2007, Solak 3375.
116. *Mycena epipterygia* (Scop. : Fr.) Gray
Fethiye, Arpacık village, Gedre district, Akçaoluk place, in *Pinus* sp. forest, 4.11.2006, Solak 2636.
117. *Mycena galopus* (Pers.) P. Kumm.
Ula, Çiçekli village, in *P. brutia* forest, 27.11.2007, Solak 3486.
118. *Mycena seynii* Quél.
Fethiye, Kargı village, on *Pinus* sp. cones, 11.11.2007, Solak 3343; Çukurincir, on *Pinus* sp. cones, 10.11.2007, Solak 3307; near stream, on *Pinus* sp. cones, 10.11.2007, Solak 3301; Çengelköy, Yürekli place, on *Pinus* sp. cones, 11.11.2007, Solak 3363; Ok kayası place, on *Pinus* sp. cones, 11.11.2007, Solak 3374; Çavdır village, in *P. brutia* forest, 1.12.2007, Solak 3579; Bayır village, on *Pinus* sp. cones, 2.12.2007, Solak 3648; Seydikemer, Arsa village, in *P. brutia* forest, 21.10.2006,

Solak 2269; Solak 2271; Geriş burnu, on *Pinus* sp. cones, 2.12.2007, Solak 3595; Yatağan, Turgut way 4 km, on *Pinus* sp. cones, 20.10.2006, Solak 2193; Yatağan- Milas way, T.K.İ. entrance, on *Pinus* sp. cones, 20.10.2006, Solak 2210.

119. *Mycena vitilis* (Fr.) Quél.
Fethiye, Çengelköy, Yürekli place, on *Pinus* sp. needle, 11.11.2007, Solak 3366.

Omphalotaceae Bresinsky

120. *Gymnopus androsaceus* (L.) Della Maggiora & Trassinelli
Fethiye, Palamutköy, on *Quercus* sp. leaf, 21.10.2006, Solak 2275.
121. *Gymnopus brassicolens* (Romagn.) Antonín & Noordel.
Fethiye, Kargı village, in *Pinus* sp. forest, 11.11.2007, Solak 3346.
122. *Gymnopus dryophilus* (Bull.) Murrill
Fethiye, Palamutköy, in *P. brutia* and *Quercus* sp. mixed forest, 21.10.2006, Solak 2272; near stream, 10.11.2007, Solak 3292; Kargı village, in *Pinus* sp. forest, 11.11.2007, Solak 3342; Çengelköy, Ok kayası place, in *Pinus* sp. forest, 11.11.2007, Solak 3373; Bağlağaç, in *Pinus* sp. forest, 1.12.2007, Solak 3555; Çavdır village, in *Pinus* sp. forest, 1.12.2007, Solak 3572b; Sarıyer village, in *Pinus* sp. forest, 2.12.2007, Solak 3619; Kavaklı village, in *Pinus* sp. forest, 2.12.2007, Solak 3651; Seydikemer, Geriş burnu, in *Pinus* sp. forest, 2.12.2007, Solak 3603; Yatağan, Milas way, ruins, in *Pinus* sp. forest, 20.10.2006, Solak 2216.
123. *Gymnopus exsculptus* (Fr.) Murrill
Fethiye, Çukurincir, in *Pinus* sp. forest, 10.11.2007, Solak 3308; Çengelköy, Yürekli place, in *Pinus* sp. forest, 11.11.2007, Solak 3365; Belenkavak place, in *Pinus* sp. forest, 11.11.2007, Solak 3406; Seydikemer, Geriş burnu, in *Pinus* sp. forest, 2.12.2007, Solak 3597; Yatağan-Milas way, T.K.İ. entrance, in *Pinus* sp. forest, 20.10.2006, Solak 2211.
124. *Gymnopus ocior* (Pers.) Antonín & Noordel.
Fethiye, Palamutköy, *P. brutia* and *Quercus* sp. mixed forest, 21.10.2006, Solak 2276.
125. *Omphalotus illudens* (Schwein.) Bresinsky & Besl
Fethiye, Arpacık village, Gedre district, Ovacık-Defneli place, in *Pinus* sp. forest, 11.11.2006, Solak 2767; Çengelköy, Ok kayası place, in *Pinus* sp. forest, 11.11.2007, Solak 3376; Üzümlü, in *Pinus* sp. forest, 2.11.2008, Solak 3945; Ula, Yayla place, in garden, 16.10.2005, Solak 1550; Muğla, Ula, on olive tree root, 15.10.2006, Solak 2185.

Phallaceae Corda

126. *Clathrus ruber* P. Micheli ex Pers.
Marmaris, Çetibeli village, in *Pinus* sp. forest, 30.11.2007, Solak 3525.
127. *Phallus impudicus* L.
Ula, Ova, in garden, 6.10.2008, Solak 3779.

Physalacriaceae Corner

128. *Armillaria mellea* (Vahl: Fr.) P. Kumm.
Ula, center, on plum tree, 31.10.2007, Solak 3220.
129. *Armillaria tabescens* (Scop.) Emel
Fethiye, Arpacık village, Gedre district, Ovacık place, on *Quercus* sp. stump, 4.11.2006, Solak 2599.
130. *Flammulina velutipes* (Curtis) Singer
Ula, center, under olive tree, 25.11.2006, Solak 2791; central health center, on tree root, 12.11.2007, Solak 3407.

Pleurotaceae Kühner

131. *Pleurotus cornucopiae* (Paulet) Rolland
Fethiye, Arpacık village, on poplar, 13.11.2005, Solak 1611; Ula, center, on mulberry, 25.11.2006, Solak 2794; Ula, center, on poplar, 3.3.2007, Solak 3111; on poplar, 6.10.2007, Solak 3780.

Pluteaceae Kotl. & Pouzar

132. *Volvariella caesiotinctoria* P.D. Orton
Fethiye, Üzümlü, in meadow, 2.11.2008, Solak 3943.
133. *Volvopluteus gloiocephalus* (DC.) Vizzini, Contu & Justo
Ula, center, in meadow, 25.11.2006, Solak 2793; 11.12.2006, Solak 3107; under spruce, 11.12.2006, Solak 2753; Çiçekli village, in meadow, 27.11.2007, Solak 3507.

Polyporaceae Fr. ex Corda

134. *Fomes fomentarius* (L.) Fr.
Fethiye, Kavaklı village, on poplar root, 2.12.2007, Solak 3631.
135. *Lentinus arcularius* (Batsch) Zmitr.
Fethiye, Girmeler, in cemetery, on branches of *P. brutia*, 21.10.2006, Solak 2258.
136. *Lentinus tigrinus* (Bull.) Fr.
Ula, Yayla place, in garden, on tree, 15.10.2005, Solak 1545; on apple tree, 18.10.2005, Solak 1555; on apple tree, 15.10.2006, Solak 2183.
137. *Polyporus squamosus* (Huds.) Fr.
Ula, center, on fig tree, 5.5.2006, Solak 2166.

138. *Trametes pubescens* (Schumach.) Pilát
Ortaca, on wood, 31.12.2005, Solak 1752.
139. *Trametes trogii* Berk.
Fethiye, Arpacık village, Kayabaşı place, on walnut tree, 13.10.2008, Solak 3782.
140. *Trametes versicolor* (L.) Lloyd
Fethiye, Babadağ, on *Quercus* sp. stump, 9.11.2006, Solak 2736; Ula, center, on apple tree, 23.11.2007, Solak 3480; on olive tree, 23.11.2007, Solak 3483; on tree root, 10.3.2007, Solak 3117 Ula, Çiçekli village, on wood, 27.11.2007;; Yatağan, Turgut way 2 km, on *Quercus* sp. stump, 20.10.2006, Solak 2191.
141. *Trichaptum bifforme* (Fr.) Ryvarden
Fethiye, Yaylakoru village, on *Cedrus* sp. tree, 9.11.2006, Solak 2722.

***Porothelaceae* Murrill**

142. *Phloeomana speirea* (Fr.) Redhead
Fethiye, Kargı village, in *Pinus* sp. forest, 11.11.2007, Solak 3344a.

***Psathyrellaceae* Vilgalys, Moncalvo & Redhead**

143. *Coprinellus disseminatus* (Pers.) J.E. Lange
Ula, Gökçe village, in citrus garden, 17.12.2006, Solak 3108.
144. *Coprinellus truncorum* (Scop.) Redhead, Vilgalys & Moncalvo
Ula, center, under *Prunus*, 10.4.2007, Solak 3121.
145. *Coprinellus xanthothrix* (Romagn.) Vilgalys, Hopple & Jacq. Johnson
Fethiye, Kargı village, in *Pinus* sp. forest, 11.11.2007, Solak 3341.
146. *Coprinopsis jonesii* (Peck) Redhead, Vilgalys & Moncalvo
Ula, Çiçekli village, in *Pinus* sp. forest, 30.3.2006, Solak 1913.
147. *Coprinopsis marcescibilis* (Britzelm.) Örstadius & E. Larss.
Fethiye, Ölüdeniz, in meadow, 22.02.2009, Allı 3316.
148. *Coprinopsis tigrinella* (Boud.) Redhead, Vilgalys & Moncalvo
Fethiye, Kargı village, in *Pinus* sp. forest, 11.11.2007, Solak 3354.
149. *Panaeolus papilionaceus* (Bull.) Quél.
Fethiye, Üzümlü, in meadow, 21.11.2009, Solak 4098.
150. *Panaeolus semiovatus* (Sowerby) S. Lundell & Nannf.
Yatağan, Turgut, in cemetery, 19.03.2006, Solak 1788.
151. *Parasola hemerobia* (Fr.) Redhead, Vilgalys & Hopple
Fethiye, Esenköy, in *Pinus* sp. forest, 20.10.2006, Solak 2235.
152. *Psathyrella candolleana* (Fr.) Maire
Muğla, Muğla Sıtkı Koçman University campus, in *Pinus* sp. forest, 23.10.2008, Solak 3787.

153. *Psathyrella conopilus* (Fr.) A. Pearson & Dennis
Fethiye, Esenköy, in *P. brutia* forest, 20.10.2006, Solak 2250.
154. *Psathyrella sacchariolens* Enderle
Ula, Gökçe village, in citrus garden, 17.12.2006, Solak 3109.

Rhizopogonaceae Gäum. & C.W. Dodge

155. *Rhizopogon ochraceorubens* A.H. Sm.
Fethiye, in *Pinus* sp. forest, 18.3.2006, Solak 1755; near stream, 10.11.2007, Solak 3295; Esenköy, in *P. brutia* forest, 20.10.2006, Solak 2241; Arpacık village, Gedre district, Akçaoluk turnout, in *Pinus* sp. forest, 8.11.2006, Solak 2662; Maden Damı place, in *Pinus* sp. forest, 8.11.2006, Solak 2682; Babadağ, in mixed forest, 9.11.2006, Solak 2745; Kargı village, in *Pinus* sp. forest, 11.11.2007, Solak 3348; Çengelköy, Yürekli place, in *Pinus* sp. forest, 11.11.2007, Solak 3360; Bağlağaç, in *Pinus* sp. forest, 1.12.2007, Solak 3557; Ardıçlı burun, in *Pinus* sp. forest, 1.12.2007, Solak 3563; Muğla, Yaraş village, in *Pinus* sp. forest, 23.11.2007, Solak 3479; Ula, Çiçekli, in *Pinus* sp. forest, 30.3.2006, Solak 1895; Yatağan, Turgut, in meadow, 20.10.2006, Solak 2200; Yatağan-Milas way, ruins, in *Pinus* sp. forest, 20.10.2006, Solak 2217.
156. *Rhizopogon roseolus* (Corda) Th. Fr.
Fethiye, Palamutköy, in *Quercus* sp. forest, 21.10.2006, Solak 2277; Center, near stream, in *Pinus* sp. forest, 10.11.2007, Solak 3298; Çukurincir, in *Pinus* sp. forest, 10.11.2007, Solak 3313; Kargı village, in *Pinus* sp. forest, 11.11.2007, Solak 3357; Ardıçlı burun, in *Pinus* sp. forest, 1.12.2007, Solak 3564; Çavdır village, in *Pinus* sp. forest, 1.12.2007, Solak 3576; Kavaklı village, in *Pinus* sp. forest, 2.12.2007, Solak 3632; Bayır village, in *Pinus* sp. forest, 2.12.2007, Solak 3649; Sarılar village, in *Pinus* sp. forest, 19.4.2008, Solak 3722; Üzümlü, in meadow, 2.11.2008, Solak 394; Seydikemer, Arsa village, in *P. brutia* forest, 21.10.2006, Solak 2264; Ula, center, in meadow, 3.12.2004, Solak 1449; Yatağan, Milas way, 3.12.2005, Solak 1730; Yatağan, in meadow, 1.4.2006, Solak 1928; Yatağan, Şahinler village, in meadow, 15.4.2006, Solak 2063; Yatağan-Milas way, T.K.İ. entrance, 20.10.2006, Solak 2213.

Russulaceae Lotsy

157. *Lactarius deliciosus* (L.) Gray
Fethiye, Yaylakoru village, Beşkavak place, in *Cedrus* sp. forest, 14.11.2005, Solak 1687; Arpacık village, Gedre district, Yemişen district, Ovacık place, in *Quercus* sp. forest, 4.11.2006, Solak 2591;

- Bağlağaç, in *Pinus* sp. forest, 1.12.2007, Solak 3539; Kavaklı village, in *Pinus* sp. forest, 2.12.2007, Solak 3630; Çırpı village, in *Pinus* sp. forest, 2.12.2007, Solak 3654; Marmaris, Çetibeli village, in *Pinus* sp. forest, 30.11.2007, Solak 3527; Ula, center, in *Pinus* sp. forest, 5.11.2006, Solak 2641; in *Pinus* sp. forest, 15.11.2006, Solak 2781; in *Pinus* sp. forest, 25.11.2006, Solak 2795.
158. *Lactarius chrysorrheus* Fr.
Ula, center, in *Pinus* sp. forest, 30.10.2006, Solak 2571.
159. *Lactarius deterrimus* Gröger
Yatağan, Şahinler village, in *Pinus* sp. forest, 3.12.2005, Solak 1701.
160. *Lactarius sanguifluus* (Paulet) Fr.
Ula, center, in *Pinus* sp. forest, 5.11.2006, Solak 2642.
161. *Lactarius semisanguifluus* R. Heim & Leclair
Ula, center, in *Pinus* sp. forest, 5.11.2006, Solak 2640.
162. *Russula acrifolia* Romagn.
Fethiye, Arpacık village, Gedre district, Akçaoluk turnout, in *Pinus* sp. forest, 8.11.2006, Solak 2666; Babadağ, in *Pinus* sp. forest, 9.11.2006, Solak 2729.
163. *Russula albonigra* (Krombh.) Fr.
Fethiye, Arpacık village, Gedre district, Akçaoluk place, in *Pinus* sp. forest, 4.11.2006, Solak 2616; Meşelisedir place, in *Pinus* sp. forest, 8.11.2006, Solak 2697.
164. *Russula clavipes* Velen.
Fethiye, Arpacık village, Gedre district, Akçaoluk place, in *Pinus* sp. forest, 4.11.2006, Solak 2604.
165. *Russula delica* Fr.
Fethiye, Arpacık village, Gedre district, Yemişen place, in *Pinus* sp. forest, 4.11.2006, Solak 2573; in *Pinus* sp. forest, 11.11.2006, Solak 3395; Marmaris, Çetibeli village, in *Pinus* sp. forest, 30.11.2007, Solak 3530; in *Pinus* sp. forest, 7.1.2009, Solak 4007; Yatağan-Milas way, in *Pinus* sp. forest, 3.12.2005, Solak 1720.
166. *Russula laccata* Huijsman
Fethiye, Arpacık village, Gedre district, Karaoluk place, in *Cedrus* sp. forest, 8.11.2006, Solak 2646.
167. *Russula maculata* Quel. & Roze
Fethiye, Arpacık village, Gedre district, Akçaoluk place, in *Pinus* sp. forest, 4.11.2006, Solak 2620.
168. *Russula nitida* (Pers.) Fr.
Fethiye, Bağlağaç village, in *P. brutia* forest, 21.10.2006, Solak 2261.

169. *Russula pallidospora* J. Blum ex Romagn.
Fethiye, Arpacık village, Gedre district, Maden Damı place, in *Pinus* sp. forest 8.11.2006, Solak 2691; Ovacık-Defneli place, in *Pinus* sp. forest, 11.11.2006, Solak 2768.
170. *Russula queletii* Schulzer
Fethiye, Çengelköy, Yürekli place, in *Pinus* sp. forest, 11.11.2007, Solak 3362.
171. *Russula seperina* Dupain
Fethiye, Arpacık village, Gedre district, Akçaoluk place, in *Pinus* sp. forest, 8.11.2006, Solak 2673.
172. *Russula torulosa* Bres.
Seydikemer, Arsa village, in *P. brutia* forest, 21.10.2006, Solak 2268; Geriş burnu, in *Pinus* sp. forest, 2.12.2007, Solak 3605.
173. *Russula velenovskyi* Melzer & Zvára
Fethiye, Arpacık village, Gedre district, Karaoluk place, in *Cedrus* sp. forest, 8.11.2006, Solak 2644.
174. *Russula vinosa* Lindblad
Fethiye, Arpacık village, Gedre district, Karaoluk place, in *Pinus* sp. forest, 8.11.2006, Solak 2672; Maden Damı place, in *Pinus* sp. forest, 8.11.2006, Solak 2688.
175. *Russula violeipes* Quél.
Fethiye, Kargı village, 11.11.2007, Solak 3355; Çengelköy, Ok kayası place, in *Pinus* sp. forest, 11.11.2007, Solak 3381.
176. *Russula viscida* Kudřna
Fethiye, Arpacık village, Gedre district, Yemişen place, in *Pinus* sp. forest, 4.11.2006, Solak 2577.
177. *Russula xerampelina* (Schaeff.) Fr.
Fethiye, Arpacık village, Gedre district, Akçaoluk place, in *Pinus* sp. forest, 4.11.2006, Solak 2638.

***Schizophyllaceae* Quél.**

178. *Schizophyllum commune* Fr.
Fethiye, in *Pinus* sp. forest, on *Pinus* sp stump, 18.3.2006, Solak 1757; Bağlıağaç village, on wood, 16.4.2006, Solak 2076; Sarılar village, in *Pinus* sp. forest, on *Pinus* sp stump, 19.4.2008, Solak 3724; Ölüdeniz, on elm tree, 22.02.2009, Allı 3314; on quince tree, 22.02.2009, Allı 3315; Yatağan, Şahinler village, on *Pinus* sp stump, 3.12.2005, Solak 1700; on *Pinus* sp stump, 15.4.2006, Solak 2060; on *Pinus* sp stump, 20.10.2006, Solak 2188; Yatağan-Milas way, on yew tree, 20.10.2006, Solak 2203.

Sclerodermataceae Corda

179. *Pisolithus arhizus* (Scop.) Rauschert
Fethiye, Arpacık village, Kayabaşı-Uzgurluk place, in *Quercus* sp. forest, 13.10.2008, Solak 3783.
180. *Scleroderma verrucosum* (Bull.) Pers.
Yatağan, Şahinler village, in cemetery, under *Quercus* sp., 3.12.2005, Solak 1695.

Stereaceae Pilát

181. *Stereum hirsutum* (Willd.) Pers.
Fethiye, Arpacık village, Gedre district, Yemişen district, Ovacık place, on *Quercus* sp. strump, 4.11.2006, Solak 2593; Çengelköy, Ok kayası place, on *Quercus* sp., 11.11.2007, Solak 3391; Ovacık place, on *Quercus* sp., 27.5.2008, Solak 3775; Çobanlar village, in *Pinus* sp. forest, 19.4.2008, Solak 3720; Ölüdeniz, on *Quercus* sp., 22.02.2009, Allı 3321; Ula, Ova, on *Quercus* sp., 26.7.2006, Solak 2177.

Strophariaceae Singer & A.H. Sm.

182. *Agrocybe splendida* Cléménçon
Fethiye, Esenköy, in *P. brutia* forest, 20.10.2006, Solak 2252.
183. *Cyclocybe cylindracea* (DC.) Vizzini & Angelini
Fethiye, Sarılar village, in *Pinus* sp. forest, 19.4.2008, Işıloğlu 3721; Ula, center, on mulberry root, 9.11.2007, Solak 3290.
184. *Gymnopilus picreus* (Pers.) P. Karst.
Fethiye, Arpacık village, Gedre district, Maden Damı place, in *Pinus* sp. forest, 8.11.2006, Solak 2623.
185. *Hypholoma acutum* (Sacc.) E. Horak
Ula, Çiçekli village, in *Pinus* sp. forest, on the stem, 27.11.2007, Solak 3510.
186. *Stropharia coronilla* (Bull.) QuéL.
Fethiye, Üzümlü, in meadows, 21.11.2009, Solak 4100; Esenköy, in *Pinus* sp. forest, 20.10.2006, Solak 2232; Yatağan, Şahinler village, in meadow, 3.12.2005, Solak 1696; Yatağan-Milas way 4 km, in meadows, 20.10.2006, Solak 2207.

Suillaceae Besl & Bresinsky

187. *Suillus bellinii* (Inzenga) Kuntze
Fethiye, Arpacık village, Gedre district, Karaoluk place, in *Cedrus* sp. forest, 12.11.2005, Solak 1574; in *Cedrus* sp. forest, 8.11.2006, Solak 2696; Ovacık-Defneli place, in *Cedrus* sp. forest, 11.11.2006, Solak 7666; Çengelköy, Yürekli place, in *Pinus* sp. forest, 11.11.2007, Solak

- 3369; Seydikemer, Geriř burnu, in *Pinus* sp. forest, 2.12.2007, Solak 3602; Ula, center, in *Pinus* sp. forest, 15.11.2006, Solak 2778.
188. *Suillus collinitus* (Fr.) Kuntze
Fethiye, Babadağ, in *Pinus* sp. forest, 9.11.2006, Solak 2742;
Çengelköy, Ok kayası place, in *Pinus* sp. forest, 11.11.2007, Solak 337;
Üzümlü, in *Pinus* sp. forest, 2.11.2008, Solak 3940; Seydikemer, Arsa
village, in *P. brutia* forest, 21.10.2006, Solak 2263.
189. *Suillus granulatus* (L.) Roussel
Fethiye, Kargı village, in *Pinus* sp. forest, 11.11.2007, Solak 3350;
Çengelköy, Yürekli place, 11.11.2007, Solak 3361; Ok kayası place,
11.11.2007, Solak 3384; Marmaris, Çetibeli village, in *Pinus* sp. forest,
30.11.2007, Solak 3529.
190. *Suillus luteus* (L.) Roussel
Fethiye, Esenköy, in *Pinus* sp. forest, 20.10.2006, Solak 2228.

Tapinellaceae C.Hahn

191. *Tapinella panuoides* (Fr.) E.-J. Gilbert
Fethiye, Saryer village, in *Pinus* sp. forest, 2.12.2007, Solak 3610; Ula,
center, in *Pinus* sp. forest, 15.11.2006, Solak 2783.

Thelephoraceae Chevall.

192. *Thelephora caryophyllea* (Schaeff.) Pers.
Yatağan, Milas way, ruins, in meadow, 15.4.2006, Solak 2072.
193. *Thelephora terrestris* Ehrh.
Ula, Çiçekli, in *Pinus* sp. forest, 30.3.2006, Solak 1900.

Tricholomataceae R.Heim ex Pouzar

194. *Clitocybe bresadoliana* Singer
Fethiye, Arpacık village, Gedre district, Ovacık-Defneli place, in *Pinus*
sp. forest, 11.11.2006, Solak 2770.
195. *Clitocybe costata* Kühner & Romagn
Fethiye, Bağlağaç, in *Pinus* sp. forest, 1.12.2007, Solak 3542; Saryer
village, in *Pinus* sp. forest, 2.12.2007, Solak 3616.
196. *Clitocybe foetens* Melot
Fethiye, Üzümlü, in *P. brutia* forest, 21.02.2009, Allı 3326.
197. *Clitocybe leucodiatreta* Bon
Fethiye, Arpacık village, Gedre district, Ovacık-Defneli place, in *Pinus*
sp. forest, 11.11.2006, Solak 2774.
198. *Clitocybe odora* (Bull.) P. Kumm.
Fethiye, Arpacık village, Gedre district, Yemiřen place, 4.11.2006,
Solak 2574; Babadağ, in *Pinus* sp. forest, 9.11.2006, Solak 2737; Ula,

- center, in *Pinus* sp. forest, 30.10.2006, Solak 2572; Yatağan, Milas way, in *Pinus* sp. forest, 3.12.2005, Solak 1735.
199. *Clitocybe squamulosa* (Pers.) P. Kumm.
Fethiye, Arpacık village, Gedre Yemişen district, Ovacık place, in *Quercus* sp. forest, 4.11.2006, Solak 2590; Babadağ, in *Pinus* sp. forest, in meadow, 9.11.2006, Solak 2728.
200. *Clitocybe subspadicea* (J.E. Lange) Bon & Chevassut
Yatağan, Şahinler village, 3.12.2005, Solak 1706; Yatağan-Milas way, 3.12.2005, Solak 1733.
201. *Clitocybe vermicularis* (Fr.) Quél.
Fethiye, in *Pinus* sp. forest, 18.3.2006, Solak 1754; Seydikemer, Geriş Burnu, in *Pinus* sp. forest, 18.3.2006, Solak 1765; Arsa village, in *P. brutia* forest, 21.10.2006, Solak 2267; Ula, Çiçekli, in *Pinus* sp. forest, 30.3.2006, Solak 1905; Yatağan, in *Pinus* sp. forest, 1.4.2006, Solak 1940.
202. *Infundibulicybe geotropica* (Bull.) Harmaja
Fethiye, Babadağ, in mixed forest, 9.11.2006, Solak 2749; Ula, Gölcük, in *Pinus* sp. forest, 16.11.2006, Solak 2786.
203. *Lepista nuda* (Bull.) Cooke
Fethiye, Üzümlü, in *P. brutia* forest, 21.02.2009, Allı 3320; Ula, Ova, in *Pinus* sp. forest, 30.11.2005, Solak 1689; in garden, 4.12.2005, Solak 1744; Çiçekli village, in *Pinus* sp. forest, 27.11.2007, Solak 3504.
204. *Melanoleuca cognata* (Fr.) Konrad & Maubl.
Yatağan, Şahinler village, in meadow, 1.4.2006, Solak 1931.
205. *Melanoleuca excissa* (Fr.) Singer
Ula, center, in meadow, 10.3.2007, Solak 3116.
206. *Melanoleuca subalpina* (Britzelm.) Bresinsky & Stangl
Center, Muğla University campus, 7.10.2008, Solak 3781.
207. *Tricholoma anatolicum* Doğan & Intini
Fethiye, Arpacık village, Gedre district, Meşeli sinir place, in *Cedrus* sp. forest, 9.10.2005, Solak 1538; in *Cedrus* sp. forest, 2.11.2005, Solak 1559; in *Cedrus* sp. forest, 16.10.2005, Solak 1552; in *Cedrus* sp. forest, 12.11.2005, Solak 1607; Kızılcapınar place, in *Cedrus* sp. forest, 4.11.2006, Solak 2600; Akçaoluk place, Kocakız yatağı, in *Cedrus* sp. forest, 16.10.2005, Solak 1553; in *Pinus* sp. forest, 8.11.2006, Solak 2675; Maden Damı, in *Cedrus* sp. forest, 16.10.2005, Solak 1554; in *Cedrus* sp. forest, 2.11.2005, Solak 1565; Kuru maar place, *Cedrus* sp. forest, 2.11.2005, Solak 1557; Karatepe place, in *Cedrus* sp. forest, 2.11.2005, Solak 1562; in *Cedrus* sp. forest, 12.11.2005, Solak 1595; Çamlı viraj place, in *Cedrus* sp. forest, 2.11.2005, Solak 1566; Karaoluk place, in *Cedrus* sp. forest, 12.11.2005, Solak 1568; Karaoluk place, in

Cedrus sp. forest, 8.11.2006, Solak 2643; Akçaoluk place, in *Cedrus* sp. forest, 12.11.2005, Solak 1588; Kırmızı viraj place, *Cedrus* sp. forest, 12.11.2005, Solak 1593; in *Pinus* sp. forest, 8.11.2006, Solak 2677; Camızcı düzü, in *Cedrus* sp. forest, 12.11.2005, Solak 1600; Yaylakoru village, in *Cedrus* sp. forest, 14.11.2005, Solak 1661; in *Cedrus* sp. forest, 9.11.2006, Solak 2716; Beşkavak place, in *Cedrus* sp. forest, 14.11.2005, Solak 1687b; Babadağ, in *Pinus* sp. forest, 9.11.2006, Solak 2741; Yemişen place, in *Pinus* sp. forest, 4.11.2006, Solak 2575; Akçaoluk turnout, in *Pinus* sp. forest, 8.11.2006, Solak 2665.

208. *Tricholoma batschii* Gulden
Fethiye, Arpacık village, Gedre district, Maden Damı place, in *Pinus* sp. forest, 8.11.2006, Solak 2692; Meşelisedir place, 8.11.2006, Solak 2699; Ovacık-Defneli place, in *Pinus* sp. forest, 11.11.2006, Solak 2759; Bağlağaç, in *Pinus* sp. forest, 1.12.2007, Solak 3537; Çavdır village, in *Pinus* sp. forest, 1.12.2007, Solak 3578; Sarıyer village, in *Pinus* sp. forest, 2.12.2007, Solak 3625; Kavaklı village, in *Pinus* sp. forest, 2.12.2007, Solak 3645; Ula, center, in *Pinus* sp. forest, 15.11.2006, Solak 2782.
209. *Tricholoma fracticum* (Britzelm.) Kreisel
Marmaris, in *Pinus* sp. forest, 7.1.2009, Solak 4000.
210. *Tricholoma pardalotum* Herink & Kotl.
Fethiye, Arpacık village, Gedre district, Karaoluk place, in *Cedrus* sp. forest, 8.11.2006, Solak 2656.
211. *Tricholoma terreum* (Schaeff.) P. Kumm.
Fethiye, Arpacık village, Gedre district, Akçaoluk place, in *Pinus* sp. forest, 4.11.2006, Solak 2608; Ovacık, Uzgurluk place, in *Pinus* sp. forest, 11.11.2006, Solak 2754; Marmaris, in *Pinus* sp. forest, 7.1.2009, Solak 4008.

Discussion

In the boundaries of the Muğla province, 211 macrofungi taxa, belonging to 47 families were determined. The list includes 20 *Ascomycota* and 191 *Basidiomycota*.

One hundred twenty-seven taxa are recorded for the first time from Muğla province. Another contribution of this study is the addition of *Cortinarius biformis*, *Cortinarius percomis*, *Cortinarius renidens*, *Geastrum lageniforme* and *Hebeloma aestivale* to Turkish mycobiota.

Sixty-nine of 211 taxa are considered to be edible according to Breitenbach & Kränzlin (1984-2000) and Kaşık (2010), but only some members of *Morchella* Dill. ex Pers., and *Rhizopogon* Fr., and *Lactarius deliciosus*, *Clitocybe geotropa*, *Russula delica* are collected and consumed in the region by local people (Işiloğlu 2001). We also found that some poisonous taxa such as *Sarcosphaera coronaria* and *Gyromitra esculenta* are consumed in the region. However no poisoning incidents are reported. These taxa contain the volatile poison gyromitrin which causes toxic reactions when the fungus is consumed raw. Local people eat these fungi after thorough cooking. Thereby gyromitrin evaporates with heat. But it may also cause death to breathe the vapors (Pyssalo & Niskanen 1977).

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