



## Macromycetes determined in Islahiye (Gaziantep/Turkey) district

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### Abstract

The current study was carried out on macrofungal specimens collected from Islahiye (Gaziantep) district between 2013 and 2014, and 128 taxa were identified. Including the previously reported 52 taxa, a list of 180 macrofungi belonging to 108 genera of 51 families has been compiled. Five taxa, *Tapesia strobilicola* (Rehm) Sacc. (*Dermateaceae*), *Hymenoscyphus janthinum* (Fr.) Lambotte (*Helotiaceae*), *Helvella compressa* (Snyder) N.S. Weber (*Helvellaceae*), *Perrotia flammea* (Alb. & Schwein.) Boud. (*Hyaloscyphaceae*) and *Hypoxyton rubiginosum* (Pers.) Fr. (*Xylariaceae*), are new records for the macromycota of Turkey.

**Key words:** macrofungi, biodiversity, Islahiye, Gaziantep

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## Islahiye (Gaziantep) yöresinde belirlenen makromantarlar

### Özet

Mevcut çalışma 2013 ve 2014 yılları arasında Islahiye (Gaziantep) ilçesinden toplanan makromantar örnekleri üzerinde gerçekleştirilmiş ve 128 takson tanımlanmıştır. Önceden rapor edilen 52 taksonun da dahil edilmesiyle, 51 familya ve 108 cinse ait 180 makromantar taksonu listelenmiştir. Bunlardan beş tanesi, *Tapesia strobilicola* (Rehm) Sacc. (*Dermateaceae*), *Hymenoscyphus janthinum* (Fr.) Lambotte (*Helotiaceae*), *Helvella compressa* (Snyder) N.S. Weber (*Helvellaceae*), *Perrotia flammea* (Alb. & Schwein.) Boud. (*Hyaloscyphaceae*) ve *Hypoxyton rubiginosum* (Pers.) Fr. (*Xylariaceae*), Türkiye makromikotasi için yeni kayıttır.

**Anahtar kelimeler:** makromantar, biyoçeşitlilik, Islahiye, Gaziantep

### 1. Introduction

Islahiye is a district of Gaziantep within South-eastern Anatolian region of Turkey. The district is situated between 36°49'–37°08' north latitudes and 36°26'–36°58' east longitudes and in C7 square according to Davis' grid square system (Figure 1). The region has a Mediterranean climate according to Emberger's formula (Akman, 1999) and falls in Irano-Turanian phytogeographical sector within the holarctic floral kingdom.

Almost 48% of the district is covered by forests. Planted *Pinus brutia* Ten. and *Quercus* L. species are the most dominating trees in the districts. *Pinus nigra* Arn. subsp. *pallasiana* (Lamb) Holmboe, *Fagus orientalis* Lipsky, *Cedrus libani* A.Rich. and *Abies cilicica* (Anto. & Kotschy) Carr. subsp. *cilicica* are widespread among the higher parts of Amanos mountain, especially around Huzurlu high plateau (İskender et al., 2005).

Studies carried out on Turkish macromycota have been traced and a list of almost 2200 macrofungi were presented (Solak et al., 2007; Sesli and Denchev, 2008). New additions were also made to this list by Akata et al. (2014a, 2014b), Güngör et al. (2014), Uzun et al. (2015), Sesli et al. (2015), Sesli and Moreau (2015), Türkoğlu (2015). Kaya et al. (2014) and Solak et al. (2014) have presented some list about the macrofungi of neighboring regions of Islahiye, and some new records were also given from the districts and Gaziantep province (Kaya and Uzun, 2015;

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Karacan et al., 2015; Kaya et al., 2015; Uzun et al., 2015). Though Kaya (2009) published a study using the data collected from Huzurlu high plateau, a complete mycofloristic research hasn't been conducted within the boundaries of the district so far. The work aims to determine the macrofungal composition of the district and make a contribution to the macromycota of Turkey.

## 2. Materials and methods

The study materials were collected from localities within the boundaries of Islahiye district (Table 1) between 2013 and 2014. Necessary data related to morphology and ecology of the macrofungi specimens were recorded and colour photographs were taken during periodic field inventories. Additional macroscopic observations and microscopic investigations were carried out in the fungarium. Using the obtained data, identification of the specimen was performed according to Philips (1981), Breitenbach & Kränzlin (1984–2000), Candusso and Lanzoni (1990), Ellis and Ellis (1990), Jordan (1995), Pegler et al. (1995), Bessette et al. (1997), Antonín & Noordeloos (1997), Ellis and Ellis (1997), Kranzlin (2005) and Beug et al. (2014). The samples are deposited at Karamanoğlu Mehmetbey University, Science Faculty, Department of Biology.

## 3. Results

(2007) and Kirk et al. (2008), and they are listed in alphabetical order. Newly recorded taxa are indicated with an asterisk (\*) and described briefly.

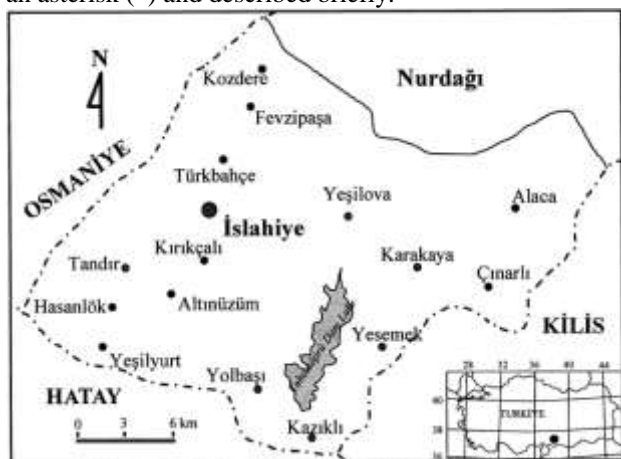


Figure 1. Map of the research area

### *Ascomycota* Whittaker

#### *Ascobolaceae* Boud. ex Sacc.

1. *Thecotheus pelletieri* (P. Crouan & H. Crouan) Boud. (Kaya and Uzun, 2015).

#### *Caloscyphaceae* Harmaja

2. *Caloscypha fulgens* (Pers.) Boud.  
Tandır village, Huzurlu high plateau, mixed forest, on soil, 36°57'N, 36°29'E, 1115 m, 27.04.2013, K.7929; 18.05.2013, K.7988.

#### *Dermateaceae* Fr.

3. *Mollisia cinerea* (Batsch) P. Karst.  
Hasanlök village, mixed forest, on dead *Quercus* L. sp. branch, 36°54'N, 36°30'E, 800 m, 07.03.2014, K.8524.

#### 4. *Tapesia fusca* (Pers.) Fuckel

- Tandır village, Huzurlu high plateau, mixed forest, on dead branches of *Fagus* L. sp., 36°58'N, 36°29'E, 1735 m, 12.04.2014, K.8805.

#### 5. \**Tapesia strobilicola* (Rehm) Sacc.

**Macroscopic and microscopic features:** Apothecia 0.5–1 mm across, irregularly cup to saucer shaped, sessile on a dark brown hypha. Hymenium pale ochre to yellowish, smooth. Outer surface brown. Asci 50–55 × 5.5–6 μm, cylindrical, 8-spored. Paraphyses

cylindrical, septate, forked at the base. Spores 7.5–8.5 × 2–2.5 μm, elliptical, smooth, hyaline.

Kozdere village, *Pinus* L. sp. forest, on dead pine cone, 37°06'N, 36°39'E, 560 m, 15.03.2014, K.8616.

#### *Helotiaceae* Rehm

#### 6. *Bisporella citrina* (Batsch) Korf & S.E. Carp.

Tandır village, Huzurlu high plateau, mixed forest, on dead branches of *Fagus* L. sp., 36°58'N, 36°29'E, 1735 m, 12.04.2014, K.8818; 36°58'N, 36°30'E, 1430 m, 19.10.2014, K.10082.

#### 7. *Hymenoscyphus fructigenus* (Bull.) Gray

Hanağzı village, mixed forest, on dead oak cupule, 37°03'N, 36°36'E, 625 m, 08.11.2014, K.10522; Fevzipaşa village, *Quercus* L. sp. forest, on dead oak cupule, 37°06'N, 36°37'E, 675 m, 18.10.2014, K.9957.



Figure 2. *Tapesia strobilicola*: a. ascocarps, b. ascospores

#### 8. \**Hymenoscyphus janthinum* (Fr.) Lambotte

**Macroscopic and microscopic features:** Apothecia 2–4 mm across, cushionlike to turbinate when young, sometimes long stalked and umbilicate, margin usually folded back. Hymenium cream to pink whitish to violet, smooth. Outer surface the same color. Asci 60–73 × 5–6.5 μm, cylindrical, 8-spored. Paraphyses cylindrical. Spores 5.5–7.5 × 2.5–3.5 μm, elliptical, smooth, hyaline, usually with two drops.

Tandır village, Huzurlu high plateau, mixed forest, on dead pine cone, 36°58'N, 36°28'E, 1490 m, 24.10.2014, K.10143.

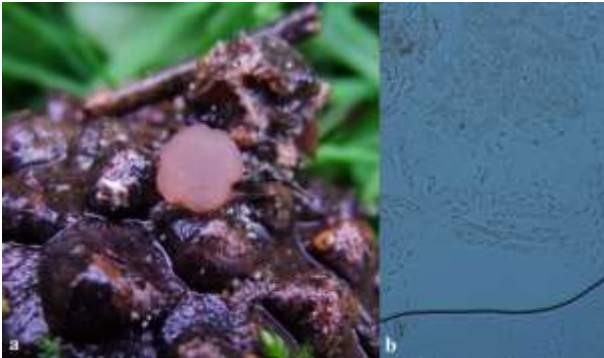


Figure 3. *Hymenoscyphus janthinum*: a. ascocarps, b. ascospores

9. *Hymenoscyphus scutula* (Pers.) W. Phillips

Tandır village, Huzurlu high plateau, near the road, on dead *Juncus* L. sp., 36°58'N, 36°28'E, 1490 m, 24.10.2014, K.10140.

10. *Phaeohelotium umbilicatum* (Le Gal) Dennis (Kaya, 2009).

**Helvellaceae** Fr.

11. *Helvella acetabulum* (L.) Quéf.

Tandır village, Huzurlu high plateau, mixed forest, on soil, 36°57'N, 36°30'E, 1215 m, 27.04.2013, K.7939.

12. \**Helvella compressa* (Snyder) N.S. Weber

**Macroscopic and microscopic features:** Fruit body 2.5–4 mm across, saddle-shaped, two to three-lobed which are separated by a narrow gap. Hymenium grey to grey-brown, smooth, flattened against the stipe. Stipe 40–100 × 5–10 mm, white to pallid, straight, sometimes sinuous, stuffed or hollow at maturity, equal or tapering toward the apex, surface minutely hairy. Asci 270–340 × 15–21 μm, 8-spored. Paraphyses clavate with finely granular content. Spores 18–21 × 12–13 μm, oblong to elliptical, smooth with a central oil drop.

Tandır village, Huzurlu high plateau, mixed forest, on soil, 36°57'N, 36°31'E, 695 m, 08.11.2014, K.10556.



Figure 4. *Helvella compressa*: a. ascocarps, b. ascospores

13. *Helvella costifera* Nannf.

Kozdere village, mixed forest, on soil, 37°08'N, 36°40'E, 695 m, 07.03.2014, K.8516.

14. *Helvella lacunosa* Afzel.

Tandır village, Huzurlu high plateau, *Pinus* sp. forest, on soil, 37°08'N, 36°40'E, 695 m, 07.03.2014, K.8515; Hasanlök village, mixed forest, on soil, 36°54'N, 36°30'E, 815 m, 07.03.2014, K.8537; Altınüzüm village, *Pinus* sp. forest, on soil, 36°55'N, 36°34' E, 490 m, 14.11.2014, K.10627.

15. *Helvella leucomelaena* (Pers.) Nannf.

Altınüzüm village, mixed forest, on soil, 36°54'N, 36°34'E, 485 m, 21.03.2014, K.8712.

16. *Helvella queletii* Bres.

Kayabaşı village, mixed forest, on soil, 36°55'N, 36°31'E, 810 m, 28.04.2013, K.7958.

**Hyaloscyphaceae** Nannf.

17. *Dasyascyphella nivea* (R. Hedw.) Raitv.

Tandır village, Huzurlu high plateau, mixed forest, on dead stump of *Fagus* L. sp., 36°58'N, 36°29'E, 1750 m, 26.04.2014, K.8893.

18. *Lachnellula subtilissima* (Cooke) Dennis

Tandır village, Huzurlu high plateau, mixed forest, on dead *Abies* Mill. sp. branches, 36°58'N, 36°29'E, 1770 m, 12.04.2014, K.8794.

19. \**Perrotia flammea* (Alb. & Schwein.) Boud.

**Macroscopic and microscopic features:** Apothecia 0.5–3 mm across, almost sessile, cup shaped, outer surface densely covered with orange red to red hairs. Hymenium cream to ochraceous. Asci 65–115 × 7–11 μm, cylindrical, enlarged at the apex, 8-spored. Paraphyses filiform, hyaline and septate. Spores 11–16.9 × 2.6–4.2 μm, cylindrical to allantoid, usually curved, hyaline, smooth, sometimes septate at maturity. Tandır village, Huzurlu high plateau, on dead branches of *Quercus* L. sp., 36°58'N, 36°29'E, 1735 m, 12.04.2014, K.8813; on dead branches of *Fagus* L. sp., 36°58'N, 36°30'E, 1430 m, 19.10.2014, K.10086.



Figure 5. *Perrotia flammea*: a. ascocarps, b. ascospores

**Lachnaceae** Raitv.

20. *Lachnum virgineum* (Batsch) P. Karst.

Tandır village, Huzurlu high plateau, mixed forest, on dead stump of *Fagus* L. sp., 36°58'N, 36°29'E, 1750 m, 26.04.2014, K.8881.

21. *Neobulgaria pura* (Pers.) Petr. (Uzun et al., 2015)

22. *Trichopeziza subsulphurea* (Svrček) Baral (Uzun et al., 2015)

**Morchellaceae** Rchb.

23. *Mitrophora semilibera* (DC.) Lév.

Tandır village, Huzurlu high plateau, mixed forest, on soil, 36°58'N, 36°30'E, 1400 m, 27.04.2013, K.7921.

24. *Morchella deliciosa* Fr.



Tandır village, Huzurlu high plateau, mixed forest, on soil, 36°57'N, 36°30'E, 1215 m, 27.04.2013, K.7938.

25. *Morchella elata* Fr. (Kaya, 2009).

26. *Morchella esculenta* (L.) Pers.

Tandır village, Huzurlu high plateau, mixed forest, on soil, 36°58'N, 36°28'E, 1660 m, 18.05.2013, K.8003.

**Pezizaceae** Dumort.

27. *Peziza pseudoviolacea* Donadini

Tandır village, Huzurlu high plateau, mixed forest, on ash, 36°58'N, 36°29'E, 1750 m, 26.04.2014, K.8871.

28. *Sarcosphaera coronaria* (Jacq.) J. Schröt.

Tandır village, huzurlu high plateau mixed forest, on soil, 36°58'N, 36°29'E, 1530 m, 27.04.2013, K.7919.

29. *Terfezia olbiensis* Tul. & C. Tul.

Tandır village, Huzurlu high plateau, mixed forest, under soil, 36°57'N, 36°29'E, 1170 m, 02.05.2014, K.8911.

**Pyronemataceae** Corda

30. *Geopora arenicola* (Lév.) Kers

Tandır village, Huzurlu high plateau, mixed forest, on soil, 36°58'N, 36°28'E, 1715 m, 27.04.2013, K.7913.

31. *Geopora summeriana* (Cooke) M. Torre (Kaya, 2009).

32. *Hypotarsetta insignis* (Berthet & Rioussset) Donadini (Kaya and Uzun, 2015).

33. *Scutellinia umbrorum* (Fr.) Lambotte (Kaya, 2009).

34. *Tricharina gilva* (Boud. ex Cooke) Eckblad (Kaya and Uzun, 2015).

**Rutstroemiaceae** Holst-Jensen

35. *Rutstroemia firma* (Pers.) P. Karst.

Tandır village, Huzurlu high plateau, mixed forest, on dead branches of *Quercus* L. sp., 36°57'N, 36°30'E, 1140 m, 01.11.2014, K.10377.

**Xylariaceae** Tul. & C. Tul.

36. \**Hypoxyylon rubiginosum* (Pers.) Fr.

**Macroscopic and microscopic features:** Fruit body consists of a spread-out thin crust with the black perithecia of 0.3–0.8 mm across, embedded in it. Shape of fruit body depends largely to substrate. Asci 120–130 × 5.5–7.5 µm, cylindrical, 8-spored. Paraphyses filiform. Spores 10–12 × 4.5–5.5 µm, elliptical to bean shaped, dark brown with one drop.

Tandır village, Huzurlu high plateau, mixed forest, on dead branches of *Quercus* L. sp., 36°57'N, 36°30'E, 1140 m, 01.11.2014, K.10396.



Figure 6. *Hypoxyylon rubiginosum*: a. ascocarps, b. ascospores

37. *Xylaria hypoxyylon* (L.) Grev.

Tandır village, Huzurlu high plateau, mixed forest, on dead stump of *Fagus* L. sp., 36°58'N, 36°30'E, 1450 m, 18.05.2013, K7972.

**Basidiomycota** R.T. Moore

**Agaricaceae** Chevall.

38. *Agaricus arvensis* Schaeff. (Kaya, 2009).

39. *Agaricus campestris* L.

Tandır village, near the forest, meadow, on soil, 36°57'N, 36°29'E, 1130 m, 24.10.2014, K.10100.

40. *Agaricus pseudoprattensis* (Bohus) Wasser (Kaya, 2009).

41. *Bovista plumbea* Pers.

Hasanlök village, near the mixed forest, meadow, on soil, 36°55'N, 36°30'E, 760 m, 27.04.2013, K.7909.

42. *Coprinus comatus* (O.F. Müll.) Pers.

Boğaziçi village, meadow, on soil, 36°56'N, 36°33'E, 530 m, 12.04.2014, K.8845.

43. *Crucibulum laeve* (Huds.) Kambly

Tandır village, Huzurlu high plateau, near the road, on dead stalk of *Pteridium aquilinum* (L.) Kuhn, 36°58'N, 36°28'E, 1490 m, 24.10.2014, K.10153; 36°58'N, 36°29'E, 1520 m, 18.05.2013, K.8017.

44. *Cyathus olla* (Batsch) Pers.

Altınüzüm village, *Pinus* L. sp. forest, on soil, 36°55'N, 36°34'E, 490 m, 14.11.2014, K.10616.

45. *Cystodermella cinnabarina* (Alb. & Schwein.) Harmaja

Tandır village, mixed forest, on soil, 36°57'N, 36°29'E, 1130 m, 24.10.2014, K.10134.

46. *Lepiota cristata* (Bolton) P. Kumm.

Kozdere village, mixed forest, on soil, 37°06'N, 36°39'E, 570 m, 01.11.2014, K.10465.

47. *Lepiota jacobi* Vellinga & Knudsen (Kaya, 2009).

48. *Leucoagaricus erioderma* (Malençon) Bon (Kaya, 2009).

49. *Leucoagaricus leucothites* (Vittad.) Wasser

Alaca village, meadow, on soil, 36°59'N, 36°49'E, 1050 m, 18.10.2014, K.10011.

50. *Leucoagaricus serenus* (Fr.) Bon & Boiffard (Kaya, 2009).

51. *Leucocoprinus badhamii* (Berk. & Broome) Locq. (Kaya, 2009).

52. *Lycoperdon nigrescens* Pers. (Kaya, 2009).

53. *Lycoperdon molle* Pers.

Çubuk village, *Pinus* L. sp. forest, on soil, 36°59'N, 36°48'E, 800 m, 18.10.2014, K.9993.

54. *Lycoperdon perlatum* Pers.

Kayabaşı village, mixed forest, on soil, 36°55'N, 36°31'E, 810 m, 28.04.2013, K.7951.

55. *Lycoperdon utriforme* Bull.

Tandır village, Huzurlu high plateau, mixed forest, on soil, 36°58'N, 36°30'E, 1450 m, 18.05.2013, K.7973.

56. *Macrolepiota excoriata* (Schaeff.) Wasser

Tandır village, Huzurlu high plateau, mixed forest, on soil, 36°58'N, 36°29'E, 1750 m, 01.11.2014, K.10433.

57. *Macrolepiota procera* (Scop.) Singer (Kaya, 2009).

58. *Macrolepiota mastoidea* (Fr.) Singer

Tandır village, Huzurlu high plateau, mixed forest, on soil, 36°58'N, 36°29'E, 1735 m, 09.11.2013, K.8167.

**Amanitaceae** R. Heim ex Pouzar

59. *Amanita excelsa* (Fr.) Bertill.

Tandır village, Huzurlu high plateau, mixed forest, on soil, 36°58'N, 36°29'E, 1715 m, 26.10.2013, K.8141.

60. *Amanita gemmata* (Fr.) Bertill.

Tandır village, Huzurlu high plateau, mixed forest, on soil, 36°58'N, 36°28'E, 1660 m, 18.05.2013, K.8008.

61. *Amanita muscaria* (L.) Lam.

Tandır village, Huzurlu high plateau, mixed forest, on soil, 36°58'N, 36°28'E, 1540 m, 24.10.2014, K.10169.

62. *Amanita pantherina* (DC.) Krombh.

Tandır village, Huzurlu high plateau, mixed forest, on soil, 36°57'N, 36°29'E, 1125 m, 09.11.2013, K.8175; 36°58'N, 36°30'E, 1430 m, 19.10.2014, K.10048.

63. *Amanita vaginata* (Bull.) Lam. (Kaya, 2009).

64. *Amanita rubescens* Pers.

Tandır village, Huzurlu high plateau, mixed forest, on soil, 36°58'N, 36°29'E, 1730 m, 36°58'N, 36°29'E, 1730 m, 18.05.2013, K.8038.

**Auriscalpiaceae** Maas Geest.

65. *Lentinellus cochleatus* (Pers.) P. Karst.

Boğaziçi village, mixed forest, on dead stump of *Abies* sp., 36°56'N, 36°33'E, 530 m, 24.10.2014, K.10187.

**Bankeraceae** Donk

66. *Sarcodon imbricatus* (L.) P.Karst. (Kaya, 2009).

**Bolbitiaceae** Singer

67. *Conocybe apala* (Fr.) Arnolds

Altınüzüm village, near the, meadow, on soil, 36°55'N, 36°34'E, 540 m, 07.03.2014, K.8510.

**Boletaceae** Chevall.

68. *Boletus erythropus* Pers.

Tandır village, Huzurlu high plateau, mixed forest, on soil, 36°58'N, 36°30'E, 1430 m, 19.10.2014, K.10067.

69. *Boletus porosporus* Imler ex Bon & G.Moreno (Kaya, 2009).

70. *Boletus reticulatus* Schaeff. (Kaya, 2009).

71. *Xerocomellus chrysenteron* (Bull.) Šutara

Kozdere village, mixed forest, on soil, 37°06'N, 36°39'E, 560 m, 26.10.2014, K.10273.

**Clavulinaceae** Donk

72. *Clavulina coralloides* (L.) J. Schrot. (Kaya, 2009).

**Cortinariaceae** R. Heim ex Pouzar

73. *Cortinarius turgidus* Fr. (Kaya, 2009).

74. *Cortinarius trivialis* J.E. Lange

Tandır village, mixed forest, on soil, 36°57'N, 36°29'E, 1130 m, 24.10.2014, K.10110.

75. *Hebeloma crustuliniforme* (Bull.) Quél.

Boğaziçi village, mixed forest, on soil, 36°56'N, 36°33'E, 530 m, 24.10.2014, K.10186.

76. *Hebeloma sinapizans* (Fr.) Sacc. (Kaya, 2009).

**Dacrymycetaceae** J. Schröt.

77. *Dacrymyces capitatus* Schwein.

Tandır village, Huzurlu high plateau, mixed forest, 36°58'N, 36°29'E, 1750 m, 01.11.2014, K.10409.

**Diplocystidiaceae** Kreisel

78. *Astraeus hygrometricus* (Pers.) Morgan

Tandır village, Huzurlu high plateau, near the road, on soil, 36°58'N, 36°30'E, 1440 m, 09.11.2013, K.8241.

**Entolomataceae** Kotl. & Pouzar

79. *Entoloma sinuatum* (Bull.) P. Kumm.

Tandır village, Huzurlu high plateau, mixed forest, on soil, 36°57'N, 36°29'E, 1130 m, 24.10.2014, K.10120.

**Geastraceae** Corda

80. *Geastrum minimum* Schwein.

Tandır village, Huzurlu high plateau, mixed forest, on soil, 36°58'N, 36°28'E, 1540 m, 24.10.2014, K.10170.

81. *Geastrum rufescens* Pers.

Tandır village, Huzurlu high plateau, mixed forest, on soil, 36°58'N, 36°28'E, 1540 m, 24.10.2014, K.10175.

82. *Geastrum triplex* Jungh.

Tandır village, Huzurlu high plateau, mixed forest, on soil, 36°58'N, 36°29'E, 1735 m, 26.10.2013, K.8075.

**Gomphaceae** Donk

83. *Gautieria monticola* Harkn.

Tandır village, Huzurlu high plateau, mixed forest, under soil, mycorrhizal with oak root, 36°58'N, 36°29'E, 1600 m, 26.04.2014, K.8862.

84. *Gomphus clavatus* (Pers.) Gray

Tandır village, Huzurlu high plateau, mixed forest, on soil, 36°58'N, 36°30'E, 1430 m, 19.10.2014, K.10058.

85. *Ramaria flava* (Schaeff.) Quél.

Tandır village, Huzurlu high plateau, mixed forest, on soil, 36°57'N, 36°30'E, 1215 m, 27.04.2013, K.7940.

86. *Ramaria stricta* (Pers.) Quél. (Kaya, 2009).

**Gomphidiaceae** Maire ex Jülich

87. *Chroogomphus rutilus* (Schaeff.) O.K. Mill.

Altınüzüm village, *Pinus* L. sp. forest, on soil, 36°55'N, 36°33'E, 533 m, 08.11.2014, K.10577.

**Hericiaceae** Donk

88. *Hericium abietis* (Weir ex Hubert) K.A.Harrison (Kaya, 2009).

**Hydnangiaceae** Gäum. & C.W. Dodge

89. *Laccaria laccata* (Scop.) Cooke (Kaya, 2009).

**Hygrophoraceae** Lotsy

90. *Hygrocybe cantharellus* (Schwein.) Murrill (Kaya, 2009).

91. *Hygrophorus agathosmus* (Fr.) Fr. (Kaya, 2009).

92. *Hygrophorus camarophyllus* (Alb. & Schwein.) Dumée, Grandjean & Maire (Kaya, 2009).

93. *Hygrophorus chrysodon* (Batsch) Fr.

Tandır village, Huzurlu high plateau, mixed forest, on soil, 36°58'N, 36°28'E, 1540 m, 24.10.2014, K.10176.

94. *Hygrophorus discoxanthus* (Fr.) Rea (Kaya, 2009).

95. *Hygrophorus eburneus* (Bull.) Fr.

Tandır village, Huzurlu high plateau, mixed forest, on soil, 36°58'N, 36°29'E, 1750 m, 01.11.2014, K.10414.

96. *Hygrophorus purpurascens* (Alb. & Schwein.) Fr.

Tandır village, Huzurlu high plateau, mixed forest, 36°58'N, 36°29'E, 1750 m, 01.11.2014, K.10431.

**Hysterangiaceae** E. Fisch.

97. *Hysterangium clathroides* Vittad.

Tandır village, Huzurlu high plateau, mixed forest, under soil, mycorrhizal with *Cedrus* Trew. sp. root, 36°58'N, 36°29'E, 1600 m, 26.04.2014, K.8863.

**Inocybaceae** Jülich

98. *Crepidotus variabilis* (Pers.) P. Kumm.

Altınüzüm village, mixed forest, on dead branches of *Pinus* L. sp., 37°08'N, 36°40'E, 695 m, 07.03.2014, K.8513.

99. *Inocybe geophylla* (Bull.) P. Kumm.

Tandır village, Huzurlu high plateau, meadow, on soil, 36°57'N, 36°29'E, 1170 m, 02.05.2014, K.8928.

100. *Inocybe perbrevis* (Weinm.) Gillet (Kaya, 2009).

101. *Inocybe pusio* P.Karst. (Kaya, 2009).

102. *Inocybe rimosa* (Bull.) P. Kumm. (Kaya, 2009).

103. *Phaeomarasmium erinaceus* (Fr.) Scherff. ex Romagn.

Çubuk village, mixed forest, on dead branches of *Quercus* L. sp., 36°59'N, 36°48'E, 800 m, 18.10.2014, K.9990.

#### **Lyophyllaceae** Jülich

104. *Lyophyllum decastes* (Fr.) Singer

Tandır village, Huzurlu high plateau, mixed forest, on soil, 36°58'N, 36°28'E, 1715 m, 27.04.2013, K.7912.

#### **Marasmiaceae** Roze ex Kühner

105. *Macrocystidia cucumis* (Pers.) Joss.

Yeşilyurt village, mixed forest, on soil, 36°54'N, 36°33'E, 510 m, 14.11.2014, K.10678.

106. *Marasmius chordalis* Fr. (Kaya, 2009).

107. *Marasmius oreades* (Bolton) Fr. (Kaya, 2009).

#### **Mycenaceae** Roze

108. *Mycena crocata* (Schrad.) P.Karst (Kaya, 2009).

109. *Mycena haematopus* (Pers.) P. Kumm.

Tandır village, Huzurlu high plateau, mixed forest, on dead stump of *Fagus* L. sp., 36°58'N, 36°29'E, 1750 m, 01.11.2014, K.10448.

110. *Mycena inclinata* (Fr.) Quel. (Kaya, 2009).

111. *Mycena pura* (Pers.) P. Kumm.

Hanağzı village, mixed forest, on soil, 37°03'N, 36°36'E, 625 m, 08.11.2014, K.10526.

112. *Mycena seynii* QuéL.

Alaca village, mixed forest, on dead pine cone, 37°00'K, 36°49'E, 1040 m, 30.11.2013, K.8398;

Fevzipaşa village, mixed forest, on dead pine cone, 37°06'N, 36°37'E, 675 m, 18.10.2014, K.9946;

Kuşçumustafa village, mixed forest, on dead pine cone, 37°06'N, 36°37'E, 890 m, 18.10.2014, K.9963;

Hasanlök village, mixed forest, on dead pine cone, 36°54'N, 36°34'E, 810 m, 19.10.2014, K.10036.

113. *Panellus violaceofulvus* (Batsch) Singer

Tandır village, Huzurlu high plateau, mixed forest, on dead branches of *Abies* Mill. sp., 36°58'N, 36°29'E, 1735 m, 12.04.2014, K.8800.

114. *Xeromphalina campanella* (Batsch) Kühner & Maire

Tandır village, Huzurlu high plateau, mixed forest, on dead stump of *Abies* Mill. sp., 36°58'N, 36°29'E, 1750 m, 18.05.2013, K.7998.

115. *Xeromphalina caudicinalis* (With.) Kühner & Maire

Yeşilyurt village, mixed forest, on dead stump of *Pinus* L. sp., 36°54'N, 36°33'E, 510 m, 14.11.2014, K.10659.

#### **Omphalotaceae** Bresinsky

116. *Gymnopus dryophilus* (Bull.) Murrill

Kozdere village, mixed forest, on soil, 37°06'N, 36°39'E, 560 m, 26.10.2014, K.10274.

117. *Gymnopus ocior* (Pers.) Antonin & Noordel. (Kaya, 2009).

118. *Omphalotus olearius* (EC.) Singer

Hasanlök village, mixed forest, on dead stump of *Quercus* L. sp., 36°54'N, 36°34'E, 810 m, 19.10.2014, K.10037.

#### **Paxillaceae** Lotsy

119. *Melanogaster ambiguus* (Vittad.) Tul. & C. Tul.

Tandır village, Huzurlu high plateau, mixed forest, semi-hypogeous, 36°58'N, 36°29'E, 1750 m, 26.04.2014, K.8876.

120. *Melanogaster broomeanus* Berk.

Tandır village, Huzurlu high plateau, mixed forest, under soil, mycorrhizal with hardwood, 36°57'N, 36°29'E, 1125 m, 09.11.2013, K.8173.

#### **Phanerochaetaceae** Jülich

121. *Terana coerulea* (Lam.) Kuntze

Altınüzüm village, *Pinus* L. sp. forest, on dead branches of *Pinus* L. sp., 37°08'N, 36°40'E, 695 m, 07.03.2014, K.8514.

#### **Physalacriaceae** Corner

122. *Armillaria ostoyae* (Romagn.) Herink (Kaya, 2009).

123. *Hymenopellis radicata* (Relhan) R.H. Petersen

Tandır village, Huzurlu high plateau, mixed forest, on soil, 36°58'N, 36°29'E, 1750 m, 01.11.2014, K.10429.

124. *Strobilurus stephanocystis* (Kühner & Romagn. ex Hora) Singer

Tandır village, Huzurlu high plateau, mixed forest, on dead pine cone, 36°58'N, 36°30'E, 1400 m, 27.04.2013, K.7924.

125. *Xerula pudens* (Pers.) Singer

Tandır village, Huzurlu high plateau, mixed forest, on soil, 36°58'N, 36°30'E, 1430 m, 19.10.2014, K.10070.

#### **Pleurotaceae** Kühner

126. *Pleurotus eryngii* (DC.) Gillet (Kaya, 2009).

127. *Pleurotus ostreatus* (Jacq.) P. Kumm.

Boğaziçi village, mixed forest, on dead stump of *Populus* L. sp., 36°56'N, 36°33'E, 530 m, 24.10.2014, K.10185.

#### **Pluteaceae** Kotl. & Pouzar

128. *Pluteus nanus* (Pers.) P.Kumm. (Kaya, 2009).

129. *Pluteus romellii* (Britzelm.) Sacc.

Tandır village, Huzurlu high plateau, mixed forest, on soil, 36°58'N, 36°29'E, 1600 m, 26.04.2014, K.8868.

#### **Polyporaceae** Fr. ex Corda

130. *Fomes fomentarius* (L.) Fr.

Tandır village, Huzurlu high plateau, mixed forest, on dead stump of *Fagus* sp., 36°57'N, 36°29'E, 1115 m, 27.04.2013, K.7931.

131. *Lentinus tigrinus* (Bull.) Fr.

Kozdere village, mixed forest, on dead stump of *Salix* L. sp., 37°06'N, 36°39'E, 605 m, 27.04.2014, K.8898.

132. *Polyporus brumalis* (Pers.) Fr. (Kaya, 2009).

133. *Polyporus varius* (Pers.) Fr. (Kaya, 2009).

134. *Trichaptum abietinum* (Dicks.) Ryvardeen

Tandır village, Huzurlu high plateau, mixed forest, on dead stump of *Abies* Mill. sp., 36°58'N, 36°29'E, 1770 m, 12.04.2014, K.8840.

135. *Trichaptum fuscoviolaceum* (Ehrenb.) Ryvardeen

Tandır village, Huzurlu high plateau, mixed forest, on dead stump of *Abies* Mill. sp., 36°58'N, 36°29'E, 1735 m, 12.04.2014, K.8809.

**Psathyrellaceae** Vilgalys, Moncalvo & Redhead

136. *Coprinellus disseminatus* (Pers.) J.E. Lange  
Altınüzüm village, mixed forest, on dead stump of *Populus* L. sp., 36°55'N, 36°33'E, 533 m, 08.11.2014, K.10579.

137. *Coprinellus impatiens* (Fr.) J.E.Lange (Kaya, 2009).

138. *Coprinellus micaceus* (Bull.) Vilgalys, Hopple & Jacq. Johnson

Altınüzüm village, mixed forest, on dead stump of *Salix* sp., 36°55'N, 36°33'E, 533 m, 08.11.2014, K.10578.

139. *Coprinopsis nivea* (Pers.) Redhead, Vilgalys & Moncalvo

Yeşilyurt village, meadow, on cow dung, 36°54'N, 36°33'E, 510 m, 14.11.2014, K.10677.

140. *Lacrymaria lacrymabunda* (Bull.) Pat. (Kaya, 2009).

141. *Parasola plicatilis* (Curtis) Redhead, Vilgalys & Hopple (Kaya, 2009).

142. *Psathyrella candolleana* (Fr.) Maire

Yeşilyurt village, meadow, on soil, 36°54'N, 36°33'E, 510 m, 14.11.2014, K.10676.

**Rhizopogonaceae** Gäum. & C.W. Dodge

143. *Rhizopogon luteolus* Fr.

Alaca village, mixed forest, semi-hypogeous, 36°59'N, 36°49'E, 840 m, 07.12.2013, K.8422; Altınüzüm village, mixed forest, semi-hypogeous, 37°08'N, 36°40'E, 695 m, 07.03.2014, K.8512.

144. *Rhizopogon roseolus* (Corda) Th. Fr.

Tandır village, Huzurlu high plateau, mixed forest, semi-hypogeous, 36°57'N, 36°29'E, 1150 m, 09.11.2013, K.8238.

**Russulaceae** Lotsy

145. *Lactarius deliciosus* (L.) Gray

Tandır village, Huzurlu high plateau, mixed forest, on soil, 36°58'N, 36°28'E, 1490 m, 24.10.2014, K.10149; 36°57'N, 36°30'E, 1140 m, 01.11.2014, K.10388.

146. *Lactarius piperatus* (L.) Pers. (Kaya, 2009).

147. *Russula albonigra* (Krombh.) Fr. (Kaya, 2009).

148. *Russula brevipes* Peck

Tandır village, Huzurlu high plateau, mixed forest, on soil, 36°57'N, 36°30'E, 1140 m, 01.11.2014, K.10392.

149. *Russula delica* Fr. (Kaya, 2009).

**Schizophyllaceae** Qué. l.

150. *Schizophyllum commune* Fr.

Altınüzüm village, mixed forest, on dead branches of *Quercus* L. sp., 36°55'N, 36°34'E, 490 m, 14.11.2014, K.10633.

**Sclerodermataceae** Corda

151. *Pisolithus arhizus* (Scop.) Rauschert

Tandır village, Huzurlu high plateau, mixed forest, on soil, 36°58'N, 36°29'E, 1770 m, 09.11.2013, K.8210.

152. *Scleroderma polyrhizum* (J.F. Gmel.) Pers.

Tandır village, Huzurlu high plateau, mixed forest, on soil, 36°58'N, 36°28'E, 1660 m, 18.05.2013, K.8006.

153. *Scleroderma verrucosum* (Bull.) Pers. (Kaya, 2009).

**Stereaceae** Pilát

154. *Stereum hirsutum* (Willd.) Pers.

Tandır village, Huzurlu high plateau, mixed forest, on dead stump of *Fagus* L. sp., 36°57'N, 36°29'E, 1115 m, 27.04.2013, K.7932; 36°57'N, 37°29'E, 1125 m, 30.11.2013, K.8392.

**Strophariaceae** Singer & A.H. Sm.

155. *Cyclocybe cylindracea* (DC.) Vizzini & Angelini  
Boğaziçi village, mixed forest, on dead stump of *Salix* L. sp., 36°56'N, 36°33'E, 530 m, 12.04.2014, K.8846.

156. *Hypholoma fasciculare* (Huds.) P. Kumm.

Tandır village, Huzurlu high plateau, mixed forest, on dead stump of *Fagus* L. sp., 36°58'N, 36°30'E, 1430 m, 19.10.2014, K.10093.

157. *Stropharia coronilla* (Bull.) Qué. l.

Tandır village, Huzurlu high plateau, near the road, on soil, 36°58'N, 36°28'E, 1490 m, 24.10.2014, K.10155.

158. *Stropharia semiglobata* (Batsch) Qué. l. (Kaya, 2009).

**Suillaceae** Besl & Bresinsky

159. *Suillus collinitus* (Fr.) Kuntze

Yesemek village, *Pinus* L. sp. forest, on soil, 36°56'N, 36°31'E, 520 m, 15.02.2014, K.8472.

160. *Suillus granulatus* (L.) Roussel

Tandır village, Huzurlu high plateau, mixed forest, on soil, 36°58'N, 36°29'E, 1770 m, 26.10.2013, K.8109; Yeşilyurt village, mixed forest, on soil, 36°54'N, 36°33'E, 510 m, 14.11.2014, K.10646.

161. *Suillus luteus* (L.) Roussel

Tandır village, Huzurlu high plateau, mixed forest, on soil, 36°58'N, 36°29'E, 1770 m, 09.11.2013, K.8217.

**Tricholomataceae** R. Heim ex Pouzar

162. *Arrhenia spathulata* (Fr.) Redhead

Fevzipaşa village, near the road, on mosses, 37°06'N, 36°37'E, 675 m, 18.10.2014, K.9956.

163. *Clitocybe gibba* (Pers.) P. Kumm.

Hasanlök village, mixed forest, on soil, 36°54'N, 36°34'E, 810 m, 19.10.2014, K.10043.

164. *Clitocybe nebularis* (Batsch) P. Kumm.

Tandır village, Huzurlu high plateau, mixed forest, on rotten *Fagus* L. sp. leaves, 36°58'N, 36°29'E, 1750 m, 01.11.2014, K.10444.

165. *Clitocybe odora* (Bull.) P. Kumm.

Tandır village, Huzurlu high plateau, mixed forest, on rotten leaves of *Fagus* L. sp., 36°58'N, 36°29'E, 1750 m, 01.11.2014, K.10445.

166. *Clitocybe phyllophila* (Pers.) P.Kumm. (Kaya, 2009).

167. *Cotylidia diaphana* (Schwein.) Lentz (Kaya, 2009).

168. *Infundibulicybe geotropa* (Bull.) Harmaja (Kaya, 2009).

169. *Lepista nuda* (Bull.) Cooke

Kozdere village, *Pinus* L. sp. forest, on soil, 37°06'N, 36°39'E, 550m, 15.03.2014, K.8628.

170. *Lepista sordida* (Schumach.) Singer

Tandır village, Huzurlu high plateau, mixed forest, on soil, 36°57'N, 36°30'E, 1140 m, 01.11.2014, K.10365.

171. *Leucopaxillus gentianeus* (Quel.) Kotl. (Kaya, 2009).
172. *Melanoleuca cognata* (Fr.) Konrad & Maubl.  
Tandır village, Huzurlu high plateau, mixed forest, on soil, 36°57'N, 36°29'E, 1125 m, 21.03.2014, K.8729.
173. *Melanoleuca excissa* (Fr.) Singer  
Kozdere village, *Pinus* L. sp. forest, on soil, 37°06'N, 36°39'E, 560 m, 15.03.2014, K.8652.
174. *Resupinatus trichotis* (Pers.) Singer  
Tandır village, Huzurlu high plateau, mixed forest, on dead stump of *Quercus* L. sp., 36°58'N, 36°29'E, 1735 m, 12.04.2014, K.8817; 36°57'N, 36°30'E, 1140 m, 01.11.2014, K.10395.
175. *Tricholoma anatolicum* H.H. Doğan & Intini  
Tandır village, Huzurlu high plateau, mixed forest, on soil, 36°58'N, 36°30'E, 1430 m, 19.10.2014, K.10089.
176. *Tricholoma batschii* Gulden  
Tandır village, Huzurlu high plateau, mixed forest, on soil, 36°58'N, 36°30'E, 1430 m, 19.10.2014, K.10094.
177. *Tricholoma equestre* (L.) P. Kumm.  
Tandır village, Huzurlu high plateau, mixed forest, on soil, 36°58'N, 36°29'E, 1715 m, 26.10.2013, K.8136.
178. *Tricholoma terreum* (Schaeff.) P. Kumm.  
Yesemek village, *Pinus* L. sp. forest, on soil, 36°56'N, 36°31'E, 500 m, 15.02.2014, K.8468; near Tahtaköprü dam, *Pinus* L. sp. forest, on soil, 36°51'N, 36°41'E, 455 m, 07.03.2014, K.8539.
179. *Tricholoma virgatum* (Fr.) P.Kumm. (Kaya, 2009).

#### **Tubariaceae** Vizzini

180. *Tubaria conspersa* (Pers.) Fayod  
Alaca village, near the road, meadow, on soil, 36°59'N, 36°49'E, 1050 m, 18.10.2014, K.10012.

#### **4. Conclusions**

As a result of two years work between 2013-2014, 128 macrofungi taxa were determined within the boundaries of Islahiye district. Together with the previously recorded taxa, a list of 180 macrofungi taxa were compiled. Among them 37 belong to Ascomycota and 143 to Basidiomycota. Fifty four of the determined taxa are edible, and *Agaricus campestris*, *Lactarius deliciosus*, *Pleurotus ostreatus*, *Terfezia olbiensis*, *Tricholoma anatolicum*, *T. batschii* and *T. terreum* were found to be collected and consumed by locals.

As it is the case for plant taxa (İskender et al., 2005), Islahiye can be regarded as a rich district in terms of macrofungal diversity. So far, the district is the only locality in Turkey for seven genera (*Cotylidia* P. Karst., *Hypotarzetta* Donadini, *Neobulgaria* Petr., *Perrotia* Boud., *Thecotheus* Boud., *Tricharina* Eckblad and *Trichopeziza* Fuckel) and four species (*Tapesia strobilicola* (Rehm) Sacc., *Hymenoscyphus janthinum* (Fr.) Lambotte, *Helvella compressa* (Snyder) N.S. Weber, and *Hypoxylon rubiginosum* (Pers.) Fr.) (Kaya, 2009; Kaya and Uzun, 2015; Uzun et al., 2015).

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