

PAPER DETAILS

TITLE: Antakya (Hatay) ve Çevresinin Makromantarları

AUTHORS: Hayri BABA, Sinan ALKAN, Giyasettin KASIK

PAGES: 11-20

ORIGINAL PDF URL: <https://dergipark.org.tr/tr/download/article-file/181942>



Geliş(Received) : 11.10.2012
Kabul(Accepted): 26.04.2013

Araştırma Makalesi

Macrofungi of Antakya (Hatay) and Its Environment

Hayri BABA^{*1}, Sinan ALKAN² & Gıyasettin KAŞIK²

¹Mustafa Kemal Univ., Faculty of Science and Arts, Biology Department, Hatay –TURKEY

² Selçuk University, Science Faculty, Biology Department, Konya – TURKEY

Abstract

In this taxonomic study, macrofungi of Antakya (Hatay) were collected in year 2011. As a result of field and laboratory studies we have reported 87 taxa in *Ascomycota* and *Basidiomycota*. The distribution, habitat, and collection numbers of the identified species are given.

Key Words: Macrofungi, Systematic, Antakya (Hatay), Turkey

Antakya (Hatay) ve Çevresinin Makromantarları

Özet

Bu taksonomik çalışmada, 2011 yılında Antakya (Hatay) makromantarları toplanmıştır. Arazi ve laboratuvar çalışmaları sonucu *Ascomycota* ve *Basidiomycota* divisiosunda 87 takson rapor edilmiştir. Belirlenen türlerin yayılışı, habitatı ve toplama numaraları verilmiştir.

Anahtar Kelimeler: Makromantarlar, Sistematik, Antakya (Hatay), Türkiye

Introduction

Antakya (Antioch) is the city-center of Hatay that is the regional name in Turkish. It is in the south of Anatolia, near the border with Syria and is the administrative center of the province of Hatay (36° 10' N 36° 06' E). The city's altitude of approximately 85 meters. The importance of the region is largely due to its perfect climatic conditions and the fertile land. Antakya is situated at Mediterranean phytogeographical region and C6 square according to Davis in the years of grid system (Davis, 1965-1985).. Antakya is located on the banks of the Orontes River (Turkish: Asi river), approximately 22 kilometers inland from the Mediterranean coast (Figure 1). It enjoys a Mediterranean climate with hot and dry summers, and mild and rainy winters; due to its higher altitude, Antakya has slightly cooler temperatures than the coast. Antakya is in a valley surrounded by mountains,

the Nur Mountains in the north and Mount Keldağ (Jebel Akra) in the south, with the 440m high the Mount Habib-i Neccar (ancient Silpius) forming its eastern limits. The mountains are a source of a green marble. The Amik Plain to the north-east of the city which has fertile soil is watered by the Orontes, the Karasu River and the Afrin River. The lake in the plain was drained in 1980 and at the same time channels were built to widen the Orontes River and let it pass neatly through the city centre.

Despite the formation of the natural vegetation forests, forests have been destroyed in many areas today has taken place different types of shrubs. In protected areas and away from destruction there is *Pinus brutia* (Red pine), *Pinus nigra* (Larch), *Abies cilicica* (fir), *Quercus* spp. (oak) and *Juniperus* spp. (juniper) and *Daphne* forests.

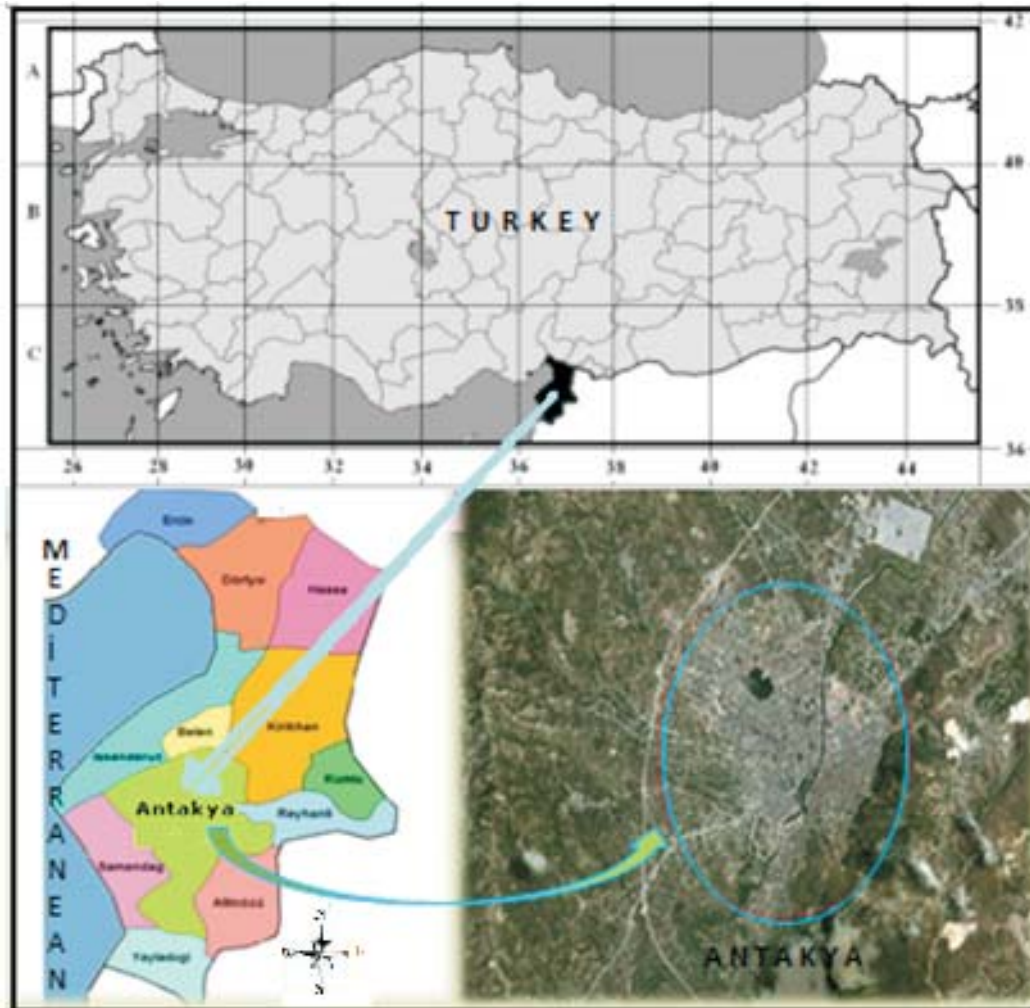


Figure 1. Map of study area

According to meteorological data from the directorate of Hatay, the highest average monthly temperature is in August and 27.6°C, the lowest average monthly temperature is in December 7.7°C. The average monthly maximum rainfall of Antakya is in December and 192.4 mm, the lowest average monthly rainfall is in August 3.5 mm (Anonymous, 2011).

Many studies have been carried out on the macrofungi of Turkey (Alkan et al., 2010, Doğan et al., 2012, Demirel et al., 2002,

Türkoğlu et al., 2007, Kaya, 2009). While much research has been done on macrofungi, studies on Turkish macrofungi list are still incomplete. In this context there have been no previous studies on macrofungi growing in Antakya. The study materials were collected in 2011 in the province of Antakya. The aim of this study was to determine the macrofungi taxa of Antakya. All materials cited are deposited in the fungarium of the University of Mustafa Kemal (Hatay).



Material and Method

The macrofungi specimens of this study were collected in Antakya and around in 2011. During field studies, colour slides of the macrofungi specimens were taken in their natural habitats. After relevant notes were taken on their morphological and ecological features, they were put in specially prepared boxes and taken to the fungarium. The ecological and morphological characteristics of the macrofungi were recorded and they were photographed in their natural habitats. Specimens were brought to the laboratory and dried after spore prints were obtained. The identification of taxa was carried out according to the literature. Fungus names, authors, habitats, collecting dates, collector's names and collecting numbers were respectively given in floristic list.

We identified and checked the specimens using the literature about macrofungi by Sesli & Denchev (2009), Moser (1983), Breitenbach & Kränzlin (1984-2005), Ellis & Ellis (1990), Cannon & Kirk (2007), Dähncke (1993) and Jordan (2004). The specimens are kept in the fungarium of Mustafa Kemal University, Department of Biology.

Results

In this study 87 species were identified in Ascomycota and Basidiomycota. The names of authors of macrofungus species were abbreviated according to <http://www.indexfungorum.org/names/names.asp> (Kirk & Ansell, 1992). Taxonomic categories of identified species are below;

Ascomycota

Pezizales

Helvellaceae

Helvella leucomelaena (Pers.) Nannf.

Sümerler, 36°18'72N 36°15'02E, 55 m, 05.05.2011, Baba 291. Anayazı, 36°31'57N 36°18'87E, 120 m, 27.03.2011, Baba 246. Zülüflühan, 36°19'00N 36°11'30E, 130 m, 02.01.2011, Baba 166.

Morchellaceae

Morchella angusticeps Peck

Kuzeytepe, 36°20'84N 36°14'04E, 88 m, 06.06.2011, Baba 315.

Morchella elata Fr.

Kavaslı, 36°22'08N, 36°16'18E, 70 m, 01.03.2011, Baba 211. Kuzeytepe, 36°20'84N, 36°14'04E, 88 m, 06.06.2011, Baba 315.

Xylariaceae

Daldinia concentrica (Bolton) Ces. & De Not.

Harbiye, 36°13'88N 36°14'34E, 227 m, 11.07.2011, Baba 335.

Basidiomycota

Agaricales

Agaricaceae

Agaricus bisporus (J.E. Lange) Imbach

Serinyol, 36°36'20N 36°21'22E, 119 m, 11.04.2011, Baba 267, 21.11.2011, Baba 430. 25.11.2011, Baba 435, 09.12.2011, Baba 450.

Agaricus bitorquis (Quél.) Sacc.

Serinyol, 36°36'20N 36°21'22E, 119 m, 25.11.2011, Baba 435. Harbiye, 36°13'88N 36°14'34E, 227 m, 14.11.2011, Baba 420.

Agaricus bresadolanus Bohus

Serinyol, 36°36'20N 36°21'22E, 119 m, 21.03.2011, Baba 240. Anayazı, 36°31'57N 36°18'87E, 120 m, 27.10.2011, Baba 392.

Agaricus campestris L.

Büyükdalyan, 36°18'27N 36°11'58E, 105 m, 20.11.2011, Baba 429.

Agaricus cupreobrunneus (Jul. Schöff. & Steer) Pilát

Ballıöz, 36°40'29N 36°21'16E, 412 m, 08.11.2011, Baba 407.

Agaricus xanthodermus Genev.

Seyiryeri, 36°19'46N 36°16'54E, 112 m, 04.03.2011, Baba 216.



***Bovista plumbea* Pers.**

Anayazı, 36°31'57N 36°18'87E, 120 m, 28.03.2011, Baba 248. Ballıöz, 36°40'29N 36°21'16E, 412 m, 24.12.2011, Baba 475. Odabaşı, 36°20'78N 36°15'46E, 70 m, 22.03.2011, Baba 241. Serinyol, 36°36'20N 36°21'22E, 119 m, 23.03.2011, Baba 242. Zülflühan, 36°19'00N 36°11'30E, 130 m, 31.10.2011, Baba 399.

***Chlorophyllum rachodes* (Vittad.)**

Vellinga

Anayazı, 36°31'57N 36°18'87E, 120 m, 21.09.2011, Baba 355.

***Cyathus olla* (Batsch) Pers.**

Serinyol, 36°36'20N 36°21'22E, 119 m, 26.04.2011, Baba 284.

***Lepiota oreadiformis* Velen.**

Zülflühan, 36°19'00N 36°11'30E, 130 m, 31.10.2011, Baba 399.

***Lepiota subgracilis* Wasser**

Serinyol, 36°36'20N 36°21'22E, 119 m, 25.11.2011, Baba 435.

***Leucoagaricus leucothites* (Vittad.)**

Wasser

Serinyol, 36°36'20N 36°21'22E, 119 m, 25.11.2011, Baba 435. Turunçlu, 36°19'33N, 36°15'08E, 58 m, 18.11.2011, Baba 426.

***Lycoperdon molle* Pers.**

Ballıöz, 36°40'29N 36°21'16E, 412 m, 19.06.2011, Baba 320. Odabaşı, 36°20'78N 36°15'46E, 70 m, 11.12.2011, Baba 453. Sabancı, 36°18'27N 36°11'58E, 105 m, 20.04.2011, Baba 282. Serinyol 36°36'20N 36°21'22E, 119 m, 25.10.2011, Baba 390. Uzunaliç, 36°40'29N 36°21'16E, 412 m, 21.04.2011, Baba 283.

***Lycoperdon perlatum* Pers.**

Anayazı, 36°31'57N 36°18'87E, 120 m, 28.03.2011, Baba 248. Ballıöz, 36°40'29N 36°21'16E, 412 m, 08.11.2011, Baba 407.

***Macrolepiota excoriata* (Schaeff.)**

Wasser

Anayazı, 36°31'57N 36°18'87E, 120 m, 17.03.2011, Baba 236. Harbiye 36°13'88N

36°14'34E, 227 m, 16.11.2011, Baba 424. Kampüs, 36°36'20N 36°21'22E, 119 m, 25.10.2011, Baba 390. Serinyol, 36°36'20N 36°21'22E, 119 m, 23.03.2011, Baba 242, 23.11.2011, Baba 432, 09.12.2011 Baba 450, 12.11.2011, Baba 414. Seyiryeri, 36°19'46N, 36°16'54E, 112 m, 09.12.2011 Baba 450. Sümerler, 36°18'72N 36°15'02E, 55 m, 17.03.2011, Baba 236. Turunçlu, 36°19'33N 36°15'08E, 58 m, 13.10.2011, Baba 375. Uzunaliç, 36°40'29N 36°21'16E, 412 m, 13.03.2011, Baba 230. Zülflühan, 36°19'00N 36°11'30E, 130 m, 31.10.2011, Baba 399.

***Macrolepiota procera* (Scop.) Singer**

Anayazı, 36°31'57N 36°18'87E, 120 m, 20.11.2011, Baba 429. Armutlu, 36°19'33N 36°15'08E, 58 m, 21.04.2011, Baba 283. Batiayaz, 36°15'99N 36°04'20E, 127 m, 23.01.2011, Baba 171.

***Panaeolina foeniseccii* (Pers.) Maire**

Odabaşı, 36°20'78N 36°15'46E, 70 m, 03.04.2011, Baba 255.

***Panaeolus fimicola* (Pers.) Gillet**

Küçükdalyan, 36°22'33N 36°17'63E, 70 m, 05.04.2011, Baba 261.

Amanitaceae

***Amanita ovoidea* (Bull.) Link**

Habib-i Neccar, 36°19'46N 36°16'54E, 112 m, 11.04.2011, Baba 267.

***Amanita vittadinii* (Moretti) Vittad.**

Armutlu, 36°19'33N 36°15'08E, 58 m, 14.12.2011, Baba 460. Anayazı, 36°31'57N 36°18'87E, 120 m, 16.03.2011, Baba 234. Kampüs, 36°36'20N 36°21'22E, 119 m, 25.10.2011, Baba 390.

Hydnangiaceae

***Laccaria laccata* (Scop.) Cooke**

Kavaslı, 36°22'08N 36°16'18E, 70 m, 21.03.2011, Baba 240.



Inocybaceae

Inocybe catalaunica Singer

Ballıöz, 36°40'29N 36°21'16E, 412 m, 08.11.2011, Baba 407. Serinyol, 36°22'08N 36°16'18E, 70 m, 09.12.2011, Baba 450.

Tubaria furfuracea (Pers.) Gillet

Kavaslı, 36°22'08N 36°16'18E, 70 m, 11.09.2011, Baba 350. Anayazı, 36°31'57N 36°18'87E, 120 m, 21.11.2011, Baba 430.

Marasmiaceae

Gymnopus dryophilus (Bull.) Murrill

Anayazı, 36°31'57N 36°18'87E, 120 m, 22.12.2011, Baba 473. Batıyaz, 36°15'99N 36°04'20E, 127 m, 23.01.2011, Baba 171.

Gymnopus foetidus (Sowerby) J.L. Mata & R.H. Petersen

Anayazı, 36°31'57N 36°18'87E, 120 m, 19.11.2011, Baba 428.

Rhodocollybia prolixa (Hornem.) Antonín & Noordel.

Serinyol, 36°36'20N 36°21'22E, 119 m, 26.04.2011, Baba 284.

Mycenaceae

Mycena stipata Maas Geest. & Schwöbel

Ballıöz, 36°40'29N 36°21'16E, 412 m, 19.06.2011, Baba 320.

Physalacriaceae

Armillaria mellea (Vahl) P. Kumm.

Anayazı, 36°31'57N 36°18'87E, 120 m, 09.04.2011, Baba 264, 19.11.2011, Baba 428. Armutlu, 36°19'33N 36°15'08E, 58 m, 11.11.2011, Baba 412. Serinyol, 36°36'20N 36°21'22E, 119 m, 21.11.2011, Baba 430.

Pleurotaceae

Pleurotus ostreatus (Jacq.) P. Kumm.

Armutlu, 36°19'33N 36°15'08E, 58 m, 14.12.2011, Baba 460. Serinyol, 36°36'20N 36°21'22E, 119 m, 01.02.2011, Baba 185. Turunçlu, 36°19'33N 36°15'08E, 58 m, 01.11.2011, Baba 400.

Pluteaceae

Volvariella gloiocephala (DC.)

Boekhout & Enderle

Antakya parc, 36°18'72N 36°15'02E, 55 m, 21.11.2011, Baba 430. Armutlu, 36°19'33N 36°15'08E, 58 m, 20.01.2011, Baba 170. Büyükdalyan, 36°18'27N 36°11'58"E, 105 m, 20.11.2011, Baba 429. Kavaslı, 36°22'08N, 36°16'18E, 70 m, 17.03.2011, Baba 236. Serinyol, 36°36'20N, 36°21'22E, 119 m, 09.12.2012, Baba 450. Turunçlu, 36°19'33N, 36°15'08E, 58 m, 11.09.2011, Baba 350.

Psathyrellaceae

Coprinellus disseminatus (Pers.) J.E.

Lange

Turunçlu, 36°19'33N 36°15'08E, 58 m, 28.11.2011, Baba 436.

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

Batıyaz, 36°15'99N 36°04'20E, 127 m, 20.04.2011, Baba 282.

Psathyrella candolleana (Fr.) Maire

Anayazı, 36°31'57N 36°18'87E, 120 m, 01.03.2011, Baba 211, 03.03.2011, Baba 214, 07.03.2011, Baba 218, 25.10.2011, Baba 390. Batıyaz, 36°15'99N 36°04'20E, 127 m, 26.04.2011, Baba 284. Küçükalyan, 36°22'33N, 36°17'63E, 70 m, 04.02.2011, Baba 189, 24.03.2011, Baba 243. Odabaşı, 36°20'78N 36°15'46E, 70 m, 18.04.2011, Baba 277. Otogar, 36°23'14N 36°13'63E, 182 m, 22.03.2011, Baba 241. Serinyol, 36°36'20N 36°21'22E, 119 m, 23.11.2011, Baba 432.

Psathyrella tephrophylla (Romagn.)

M.M. Moser

Anayazı, 36°31'57N 36°18'87E, 120 m, 17.03.2011, Baba 236, 21.03.2011, Baba 240, Habib-i Neccar, 36°19'46N, 36°16'54E, 112 m, 09.04.2011, Baba 264. Sabancı, 36°18'27N 36°11'58E, 105 m, 13.03.2011, Baba 230, 09.04.2011, Baba 264, 18.05.2011, Baba 298. Serinyol, 36°36'20N 36°21'22E, 119 m, 09.04.2011, Baba 264, 29.12.2011, Baba 480. Sümerler, 36°18'72N 36°15'02E, 55 m, 10.01.2011, Baba 167. Turunçlu, 36°19'33N 36°15'08E, 58 m, 18.10.2011, Baba 380.



Schizophyllaceae

Schizophyllum commune Fr.

Harbiye, 36°13'88N 36°14'34E, 227 m, 09.04.2011, Baba 264. Odabaşı, 36°20'78N 36°15'46E, 70 m, 11.12.2011, Baba 453. Sabancı, 36°18'27N 36°11'58E, 105 m, 09.04.2011, Baba 264. Serinyol, 36°36'20N 36°21'22E, 119 m, 04.02.2011, Baba 189, 09.04.2011, Baba 264. Uzunaliç, 36°40'29N 36°21'16E 412 m, 13.03.2011, Baba 230, 09.04.2011, Baba 264.

Strophariaceae

Agrocybe cylindracea (DC.) Maire

Antakya parc, 36°18'72N 36°15'02E, 55 m, 10.10.2011, Baba 370. Armutlu, 36°19'33N 36°15'08E, 58 m, 25.11.2011, Baba 435. Turunçlu, 36°19'33N 36°15'08E, 58 m, 13.10.2011, Baba 375. Odabaşı, 36°20'78N 36°15'46E, 70 m, 26.01.2011, Baba 181.

Agrocybe dura (Bolton) Singer

Anayazı, 36°31'57N 36°18'87E, 120 m, 21.03.2011, Baba 240. Serinyol, 36°36'20N 36°21'22E, 119 m, 09.04.2011, Baba 264. 21.04.2011, Baba 283, 26.04.2011, Baba 284.

Agrocybe praecox (Pers.) Fayod

Anayazı, 36°31'57N 36°18'87E, 120 m, 20.03.2011, Baba 238. Habib-i Neccar, 36°19'46N 36°16'54E, 112 m, 29.03.2011, Baba 250. Odabaşı, 36°20'78N, 36°15'46E, 70 m, 24.02.2011, Baba 205. Serinyol, 36°36'20N 36°21'22E, 119 m, 21.11.2011, Baba 430.

Gymnopilus junonius (Fr.) P.D. Orton

Anayazı, 36°31'57N, 36°18'87E, 120 m, 24.03.2011, Baba 243. Zülüflühan, 36°19'00N, 36°11'30E, 130 m, 04.04.2011, Baba 260.

Hypholoma fasciculare (Huds.) P. Kumm.

Ballıöz, 36°40'29N 36°21'16E, 412 m, 08.11.2011, Baba 407. Sümerler, 36°18'72N, 36°15'02E, 55 m, 24.03.2011, Baba 243. Turunçlu, 36°19'33N 36°15'08E, 58 m, 13.10.2011, Baba 375.

Stropharia coronilla (Bull.) Qué.

Zülüflühan, 36°19'00N 36°11'30E, 130 m, 31.10.2011, Baba 399.

Stropharia semiglobata (Batsch) Qué.

Sabancı, 36°18'27N 36°11'58E, 105 m, 21.04.2011, Baba 283.

Tricholomataceae

Clitocybe gibba (Pers.) P. Kumm.

Harbiye, 36°13'88N 36°14'34E, 227 m, 10.12.2011, Baba 451.

Lepista nuda (Bull.) Cooke

Alahan, 36°19'55N 36°11'05E, 350 m, 09.12.2011, Baba 450. Anayazı, 36°31'57N 36°18'87E, 120 m, 20.10.2011, Baba 382. Armutlu, 36°19'33N 36°15'08E, 58 m, 17.03.2011, Baba 236. Serinyol, 36°36'20N 36°21'22E, 119 m, 23.02.2011, Baba 201.

Lepista sordida (Schumach.) Singer

Serinyol, 36°36'20N 36°21'22E, 119 m, 09.12.2011, Baba 450.

Leucopaxillus mirabilis (Bres.) Konrad & Maubl.

Küçükalyan, 36°22'33N 36°17'63E, 70 m, 10.05.2011, Baba 293.

Melanoleuca exscissa (Fr.) Singer

Anayazı, 36°31'57N 36°18'87E, 120 m, 19.10.2011, Baba 381. Serinyol, 36°36'20N 36°21'22E, 119 m, 30.12.2011, Baba 481. Sümerler, 36°18'72N 36°15'02E, 55 m, 01.12.2011, Baba 439.

Melanoleuca graminicola (Velen.) Kühner & Maire

Anayazı, 36°31'57N 36°18'87E, 120 m, 11.11.2011, Baba 412. Sabancı, 36°18'27N 36°11'58E, 105 m, 13.03.2011, Baba 230.

Tricholoma terreum (Schaeff.) P. Kumm.

Anayazı, 36°31'57N 36°18'87E, 120 m, 09.12.2011, Baba 450. Ballıöz, 36°40'29N 36°21'16E, 412 m, 19.06.2011, Baba 320. Büyükalyan, 36°18'27N 36°11'58E, 105 m, 21.12.2011, Baba 471.



Odabaşı, 36°20'78N 36°15'46E, 70 m, 11.12.2011, Baba 453. Turunçlu, 36°19'33N 36°15'08E, 58 m, 20.05.2011, Baba 300. Zülüflühan, 36°19'00N 36°11'30E 130 m, 11.01.2012, Baba 409.

***Tricholomopsis rutilans* (Schaeff.) Singer**

Turunçlu, 36°19'33N 36°15'08E, 58 m, 01.11.2011, Baba 400.

Auriculariales

Auriculariaceae

***Auricularia auricula-judae* (Bull.) Qué.**

Habib-i Neccar, 36°19'46N 36°16'54E, 112 m, 11.03.2011, Baba 221. Odabaşı, 36°20'78N 36°15'46E, 70 m, 11.12.2011, Baba 453. Serinyol, 36°36'20N 36°21'22E, 119 m, 20.03.2011, Baba 238, 25.10.2011, Baba 390. Stadyum, 36°21'15N 36°15'82E, 70 m, 14.02.2011, Baba 195.

***Auricularia mesenterica* (Dicks.) Pers.**

Turunçlu, 36°19'33N 36°15'08E, 58 m, 18.10.2011, Baba 380.

***Exidia glandulosa* (Bull.) Fr.**

Harbiye, 36°13'88N 36°14'34E, 227 m, 04.12.2011, Baba 443.

Boletales

Boletaceae

***Boletus erythropus* Pers.**

Serinyol, 36°36'20N 36°21'22E, 119 m, 25.10.2011, Baba 390.

***Boletus queletii* Schulzer**

Zülüflühan, 36°19'00N 36°11'30E, 130 m, 31.10.2011, Baba 399.

Gomphidiaceae

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

Ballıöz, 36°40'29N 36°21'16E, 412 m, 08.11.2011, Baba 407.

Suillaceae

***Suillus bovinus* (Pers.) Roussel**

Seyiryeri, 36°19'46N 36°16'54E, 112 m,

29.11.2011, Baba 437.

***Suillus luteus* (L.) Roussel**

Habib-i Neccar, 36°19'46N 36°16'54E, 112 m, 11.03.2011, Baba 221. Seyiryeri, 36°19'46N 36°16'54E, 112 m, 03.03.2011, Baba 214. Zülüflühan, 36°19'00N 36°11'30E, 130 m, 31.10.2011, Baba 399.

Cantharellales

Cantharellaceae

***Cantharellus cibarius* Fr.**

Batıyaz, 36°15'99N 36°04'20E, 127 m, 23.01.2011, Baba 171.

Gloeophyllales

Gloeophyllaceae

***Gloeophyllum abietinum* (Bull.) P. Karst.**

Habib-i Neccar, 36°19'46N 36°16'54E, 112 m, 10.11.2011, Baba 409. Serinyol, 36°36'20N 36°21'22E, 119 m, 19.04.2011, Baba 280.

***Gloeophyllum trabeum* (Pers.) Murrill**

Karaali, 36°18'27N 36°11'58E, 105 m, 24.11.2011, Baba 433.

Hymenochaetales

Hymenochaetaceae

***Phellinus hartigii* (Allesch. & Schnabl) Pat.**

Ballıöz, 36°40'29N 36°21'16E, 412 m, 08.11.2011, Baba 407. Habib-i Neccar, 36°19'46N 36°16'54E, 112 m, 01.05.2011, Baba 286. Karayolları, 36°22'08N 36°16'18E, 70 m, 21.03.2011, Baba 240, Otogar, 36°23'14N 36°13'63E, 182 m, 11.11.2011, Baba 412. Serinyol, 36°36'20N 36°21'22E, 119 m, 20.04.2011, Baba 282.

***Phellinus igniarius* (L.) Qué.**

Armutlu, 36°19'33N 36°15'08E, 58 m, 10.08.2011, Baba 339. Otogar, 36°23'14N 36°13'63E, 182 m, 01.11.2011, Baba 400.

***Phellinus pomaceus* (Pers.) Maire**

Kuzeytepe, 36°20'78N 36°15'46E, 70 m, 03.05.2011, Baba 290.



***Fuscoporia torulosa* (Pers.) T. Wagner & M. Fisch.**

Harbiye, 36°13'88N 36°14'34E, 227 m, 01.11.2011, Baba 400. Karayolları, 36°22'08N 36°16'18E, 70 m, 06.07.2011, Baba 330. Kuzeytepe, 36°20'78N 36°15'46E, 70 m, 07.04.2011, Baba 262. Seyiryeri, 36°19'46N 36°16'54E, 112 m, 29.11.2011, Baba 437.

***Inonotus rheades* (Pers.) Bondartsev & Singer**

Antakya parc, 36°18'72N 36°15'02E, 55 m, 10.10.2011, Baba 370. Harbiye, 36°13'88N 36°14'34E, 227 m, 04.12.2011, Baba 443. Turunçlu, 36°19'33N 36°15'08E, 58 m, 13.10.2011, Baba 375. Büyükdalyan, 36°18'27N 36°11'58"E, 105 m, 10.04.2011, Baba 266. Antakya parc, 36°18'72N 36°15'02E, 55 m, 11.02.2011, Baba 192.

Phallales

Phallaceae

***Phallus impudicus* L.**

Anayazı, 36°31'57N 36°18'87E, 120 m, 17.03.2011, Baba 236, 23.11.2011, Baba 432. Serinyol, 36°36'20N 36°21'22E, 119 m, 11.04.2011, Baba 267.

Polyporales

Fomitopsidaceae

***Antrodia juniperina* (Murrill) Niemelä & Ryvarden**

Odabaşı, 36°20'78N 36°15'46E, 70 m, 11.12.2011, Baba 453.

***Fomitopsis pinicola* (Sw.) P. Karst.**

Armutlu, 36°19'33N 36°15'08E, 58 m, 07.04.2011, Baba 262.

Ganodermataceae

***Ganoderma applanatum* (Pers.) Pat.**

Armutlu, 36°19'33N 36°15'08E, 58 m, 28.10.2011, Baba 395. Sabancı, 36°18'27N 36°11'58"E, 105 m, 21.03.2011, Baba 240.

***Ganoderma lucidum* (Curtis) P. Karst.**

Anayazı, 36°31'57N 36°18'87E, 120 m, 17.03.2011, Baba 236. Antakya parc, 36°18'72N 36°15'02E, 55 m, 11.11.2011, Baba 412. Küçükalyan, 36°22'33N 36°17'63E, 70 m,

11.04.2011, Baba 267. Otogar, 36°23'14N 36°13'63E, 182 m, 11.11.2011, Baba 412. Turunçlu, 36°19'33N 36°15'08E, 58 m, 18.10.2011, Baba 380.

Meruliaceae

***Bjerkandera adusta* (Willd.) P. Karst.**

Anayazı 36°31'57N 36°18'87E, 120 m, 11.04.2011, Baba 267. Büyükdalyan, 36°18'27N 36°11'58E, 105 m, 03.02.2011., Baba 187. Harbiye, 36°13'88N 36°14'34E, 227 m, 13.03.2011, Baba 230. Serinyol, 36°36'20N 36°21'22E, 119 m, 13.01.2011, Baba 168. Seyiryeri, 36°19'46N 36°16'54E, 112 m, 04.03.2011, Baba 216, 23.11.2011, Baba 432.

Polyporaceae

***Fomes fomentarius* (L.) J. Kickx f.**

Turunçlu, 36°19'33N 36°15'08E, 58 m, 03.12.2011, Baba 441.

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

Harbiye, 36°13'88N 36°14'34E, 227 m, 01.11.2011, Baba 400. Turunçlu, 36°19'33N 36°15'08E, 58 m, 18.10.2011, Baba 380, 06.12.2011, Baba 448.

***Trametes trogii* Berk.**

Harbiye, 36°13'88N 36°14'34E, 227 m, 16.04.2011, Baba 275.

***Trametes versicolor* (L.) Lloyd**

Akevler, 36°21'46N 36°15'30E, 90 m, 13.03.2011, Baba 230, 03.12.2011, Baba 441. Harbiye 36°13'88N 36°14'34E, 227 m, 11.03.2011, Baba 221, 04.12.2011, Baba 444. Samandağ road, 36°15'99N 36°04'20E, 127 m, 13.03.2011, Baba 230.

***Trichaptum abietinum* (Dicks.) Ryvarden**

Kavaslı, 36°22'08N 36°16'18E, 70 m, 17.03.2011, Baba 236. Sümerler, 36°18'72N 36°15'02E, 55 m, 11.10.2011, Baba 372.

Russulales

Hericiaceae

***Hericium coralloides* (Scop.) Pers.**

Turunçlu, 36°19'33N 36°15'08E, 58 m, 10.11.2011, Baba 409.



Peniophoraceae

Peniophora quercina (Pers.) Cooke

Harbiye, 36°13'88N 36°14'34E, 227 m, 04.12.2011, Baba 443.

Russulaceae

Lactarius deliciosus (L.) Gray

Anayazi, 36°31'57N 36°18'87E, 120 m, 09.12.2011, Baba 450.

Lactarius sanguifluus (Paulet) Fr.

Habib-i Neccar, 36°19'46N 36°16'54E, 112 m, 11.03.2011, Baba 221.

Russula queletii Fr.

Anayazi, 36°31'57N 36°18'87E, 120 m, 21.12.2011, Baba 471. Serinyol, 36°36'20N 36°21'22E, 119 m, 20.10.2011, Baba 382.

Stereaceae

Stereum hirsutum (Willd.) Pers.

Anayazi, 36°31'57N 36°18'87E, 120 m, 27.03.2011, Baba 246. Harbiye, 36°13'88N 36°14'34E, 227 m, 04.12.2011, Baba 443. Meteoroloji, 36°21'00N 36°14'66E, 70 m, 03.02.2011, Baba 187. Odabaşı, 36°20'78N 36°15'46E, 70 m, 18.04.2011, Baba 277. Sabancı, 36°18'27"N 36°11'58"E, 105 m, 08.07.2011, Baba 333. Turunçlu, 36°19'33N 36°15'08E, 58 m, 29.11.2011, Baba 437.

Discussion

As a result of field and laboratory studies 87 species identified belong to 60 genera, 32 family, 10 ordo and 2 division. Four of them belong to *Ascomycota* and the other 83 species belong to *Basidiomycota*.

References

- Alkan, S., Kaşık, G., Aktaş, S., *Macrofungi of Derebucak district (Konya, Turkey)*, Tr. J. of Botany, 34: 335-350 (2010).
- Anonymous, *Hatay iline ait sıcaklık ve yağış değerleri*, Ankara (2011).
- Breitenbach, J., Kränzlin, F., *Fungi of Switzerland (Vols: 1 – 6)*. Andrag Mykologia. (1984-2005).
- Cannon, P.F., Kirk, P.M., *Fungal Families of the World*. Cabi Publishing, UK. (2007).

The order *Agaricales* was the most diverse group, with 50 species (57%), followed by the *Polyporales* 10 species (11%), *Russulales* 6 species (7%), *Boletales* and *Hymenochaetales* 5 species (5%), *Pezizales* 4 species, *Auriculariales* 3 species, *Gleophyllales* 2 species, *Cantharellales* and *Phallales* each with 1 species. Most of the determined species belong to the families *Agaricaceae* 18 species (21%), *Tricholomataceae* 8 species (9%), *Strophariaceae* 7 species (8%), *Hymenochaetaceae* and *Polyporaceae* each with 5 species (6%). This five family are 50% of total taxa.

The most genera represented by the most species were *Agaricus* (6 species), *Agrocybe* and *Phellinus* (each with 3 species). *Agrocybe cylindracea*, *Bjerkandera adusta*, *Bovista plumbea*, *Fuscoporia torulosa*, *Ganoderma lucidum*, *Inonotus rheades*, *Lycoperdon molle*, *Macrolepiota excoriata*, *Phellinus hartigii*, *Psathyrella candolleana*, *Psathyrella tephrophylla*, *Pisolithus arhizus*, *Schizophyllum commune*, *Stereum hirsutum*, *Tricholoma terreum* and *Volvariella gloiocephala* are the most widespread taxa in research area.

At the end of this research we have contributed to list of Turkish macrofungi with 87 macrofungi taxa which have been identified different localities in Antakya and near environment.

Acknowledgements

This study was supported by Mustafa Kemal University Scientific Research Projects (BAP) (Project No: 1102 M 0102). We would like to thanks for their financial support.



- Dähncke, R.M., *1200 Pilze*, At Andrag Aarau, Stuttgart (1993).
- Davis PH (ed.) *Flora of Turkey and the East Aegean Islands*. Vols. 1-9, Edinburgh: Edinburgh Univ. Press. (1965-1985).
- Demirel, K., Uzun, Y., Kaya, A., *Macrofungi of Ağrı Province* Turk J. of Botany, 26: 291-295 (2002).
- Doğan, H.H., Aktaş, S., Öztürk, C., Kaşık, G., *Macrofungi distribution of Cocakdere valley (Arslanköy, Mersin)* Turk J. of Botany, 36: 83-94 (2012).
- Ellis, M.B., Ellis, J.P., *Fungi Without Gills (Hymenomycetes and Gasteromycetes)*. London: Chapman and Hill. (1990).
- Jordan, M., *The Encyclopedia of Fungi of Britain and Europe*. Frances Lincoln Ltd, London (2004).
- Kaya, A., *Macrofungi of Huzurlu High Plateau (Gaziantep-Turkey)*, Turk J. of Botany, 33: 429-437 (2009).
- Kirk, P.M., Ansel, A.E., *Authors of fungal names*. Wallinford: International Mycological Institue. CABI (1992).
- Moser, M., *Keys to Agarics and Boleti*. Stuttgart: Gustav Fischer Verlag (1983).
- Sesli, E., Denchev, C.M., *Checklists of the myxomycetes, larger ascomycetes, and larger basidiomycetes in Turkey*. Mycotaxon 106: 65–67. + [complete version, 1–138, new version uploaded in January 2012] . (2009).
- Türkoğlu, A., Kanlık, A., Gezer, K., *Macrofungi of Çameli District (Denizli-Turkey)* Turk J. of Botany, 31:551-557. (2007).