



Macromycetes determined in Baykan (Siirt) district

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Baykan (Siirt) ilçesinde belirlenen makromantarlar

Abstract: The current study was based on the macrofungi collected from Baykan (Siirt) district. As a result of field and laboratory studies, 88 species belonging to 56 families were identified. Nine taxa belong to *Ascomycota* and 79 to *Basidiomycota*. Considering the taxonomic categories of the species identified in the research area, it is seen that the order, family and genus represented by the most members are *Agaricales*, *Agaricaceae* and *Agaricus* L., respectively. The identified species are listed along with their localities, habitats/substrates, geographical positions, collection dates, and voucher numbers. All of the determined species are new records for the study area.

Key words: Biodiversity, macrofungi, Siirt, Baykan, Türkiye

Özet: Mevcut çalışma Baykan (Siirt) ilçesinden toplanan makromantarlar üzerinde yapılmıştır. Arazi ve laboratuvar çalışmaları sonucunda 56 familya'ya mensup 88 tür teşhis edilmiştir. Belirlenen taksonlardan dokuzu *Ascomycota* ve 79'u *Basidiomycota* bölümlerinde yer almaktadır. Araştırma alanında tespit edilen türlerin taksonomik kategorileri dikkate alındığında, en çok üye ile temsil edilen takım, familya ve cinsin sırasıyla; *Agaricales*, *Agaricaceae* ve *Agaricus* L. olduğu görülmektedir. Teşhis edilen türler, lokalitesi, habitatı/substratı, toplandığı coğrafi koordinat, toplanma tarihi ve toplayıcı numaraları ile birlikte listelenmiştir. Tespit edilen türlerin tamamı araştırma alanı için yeni kayıttır.

Anahtar Kelimeler: Biyoçeşitlilik, makromantarlar, Siirt, Baykan, Türkiye

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1. Introduction

Baykan (Siirt) district is 47 km away from cenral district of Siirt Province. It is surrounded by Şırvan to the east, Kurtalan and Kozluk (Batman) to the west, Siirt (central district) to the south, and Bitlis to the north. Continental climate prevails in the district. Summers are hot and dry, winters are cold and rainy. The district center is situated in a narrow valley and surrounded by high hills (Figure 1).

Macrofungi, are a diverse group of organisms that form fruiting bodies which can be seen by the naked eye, and handled by hand (Berber et al., 2022). They are an important natural source of food and medicine and have great importance in the ecosystem, especially in ecology, pathology (Kamble et al. 2021). Members of macrofungi may be edible, unedible, or poisonous, and some species are used in traditional medicine for prevention and treatment of different diseases (Badalyan & Rapior, 2020).

According to the latest checklist studies (Sesli et al., 2020; Solak and Türkoğlu, 2022), around 2750 macrofungi species have been identified in Türkiye. However, considering the current plant richness of our country, this number is expected to be much higher. By the presentation of contributory studies (Kesici et al., 2022; Acar and Dizkırıcı, 2023; Akata et al., 2023; Akçay et al., 2023; Kaplan et al., 2023; Sesli, 2023a,b; Uzun and Kaya,

2023a,b; Karaduman et al., 2024) on macrofungi of Türkiye, the existing number of species is continuously being updated.

The aim of this study is to determine the macrofungal diversity of Baykan (Siirt) district, and to make a contribution to Turkish mycobiota.

2. Materials and Method

The macrofungi specimens were collected periodically from Baykan (Siirt) district between 2011 and 2012. Relevant morphological and ecological characteristics of the samples were noted and they were photographed in their natural habitats. Then the samples were taken to the fungarium, and dried in an air conditioned room. The dried samples were put in zip lock polyethylene bags, and kept as fungarium materials. Microscopic investigations were carried out on dried samples. After obtaining necessary macroscopic and microscopic data, they were identified with the help of relevant literature (Phillips, 1981; Buczacki, 1989; Breitenbach and Kränzlin, 1984-2000; Bresinsky and Besl, 1990; Hansen and Knudsen, 1992, 2000; Jordan, 2004; Dähnecke, 2004; Bessette et al., 1997, 2007; Kränzlin, 2005; Bessette and Bessette, 2006; Antonin and Noordeloos, 2010; Beug et al., 2014; Siegel and Schwarz, 2016). The specimens are kept at Yüzüncü Yıl University.

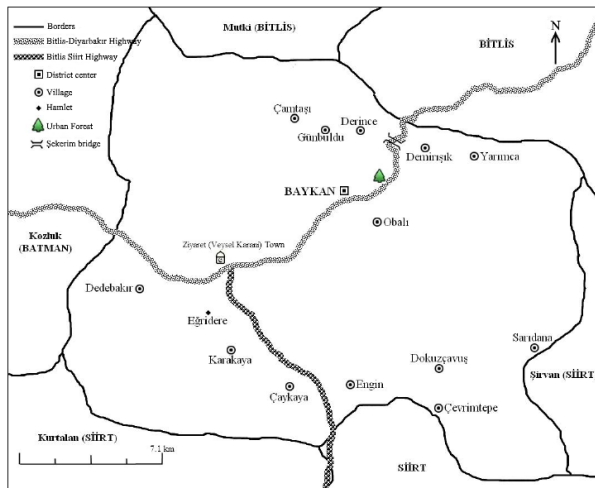


Figure 1. Map of study area.

3. Results

The determined taxa are listed in alphabetical order. Current names of the species are in accordance with IndexFungorum (2024). Each taxa are presented together with their localities, habitats, geographarphical position, collecting dates and voucher numbers.

Ascomycota Whittaker

Pezizomycetes O.E. Erikss. & Winka

Pezizales J. Schröt.

Ascobolaceae Boud. ex Sacc.

1. *Ascobolus furfuraceus* Pers.

Near the Şekerim Bridge, on dung, 38°11.809'N, 41°49.015'E, 775 m, 03.11.2012, BYK. 1624.

Helvellaceae Fr.

2. *Helvella acetabulum* (L.) Quél.

Derince village, under *Quercus* sp. trees, 38°12.123'N, 41°48.151'E, 821 m, 27.04.2011, BYK. 1373.

3. *Helvella lacunosa* Afzel.

Near the Şekerim Bridge, under *Populus* sp. trees, 38°11.708'N, 41°49.026'E, 790 m, 27.04.2011

4. *Helvella leucopus* Pers.

Derince village, in mixed forest, 38°12.247'N, 41°47.966'E, 809 m, 27.04.2011, BYK. 1360.

Morchellaceae Rchb.

5. *Morchella crassipes* (Vent.) Pers.

Near the Şekerim Bridge, in mixed forest, 38°11.809'N, 41°49.015'E, 775 m, 27.04.2011, BYK. 1343.

6. *Morchella elata* Fr.

Gümüşhane village, near the mosque, in mixed forest, 38°12.341'N, 41°47.534'E, 968 m, 27.04.2011, BYK. 1379.

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

Sarıdana village, near the fountain, under *Prunus* sp. trees, 38°05.348'N, 41°53.861'E, 1154 m, 28.04.2011, BYK. 1431.

Pezizaceae Dumort.

8. *Peziza granularis* Donadini

Demirşık village, in mixed forest, 38°11.406'N, 41°50.145'E, 880 m, 30.11.2012, BYK. 1906.

9. *Peziza praetervisa* Bres.

Baykan Urban Forest, under Conifer trees, burnt area, 38°10.712'N, 41°48.460'E, 727 m, 01.12.2012, BYK. 1928.

Basidiomycota R.T. Moore

Agaricomycetes Doweld

Agaricales Underw.

Agaricaceae Chevall.

10. *Agaricus bisporus* (J.E. Lange) Imbach

Dedebakır village, near the *Quercus* sp. forest, meadow, 38°07.123'N, 41°39.517'E, 828 m, 05.11.2012, BYK. 1678.

11. *Agaricus campestris* L.

District center, near the Baykan State Hospital, conifer forest clearance, meadow, 38°09.628'N, 41°47.001'E, 720 m, 17.11.2012, BYK. 1863.

12. *Agaricus comtulus* Fr.

Near the Şekerim Bridge, conifer forest clearance, meadow, 38°11.806'N, 41°49.018'E, 754 m, 15.11.2012, BYK. 1711.

13. *Agaricus langei* (F.H. Møller) F.H. Møller

Baykan Urban Forest, under conifer trees, 38°10.712'N, 41°48.460'E, 727 m, 01.12.2012, BYK. 1947.

14. *Agaricus pseudoprattensis* (Bohus) Wasser

Near the Şekerim Bridge, edge of agricultural land, meadow, 38°11.806'N, 41°49.018'E, 754 m, 12.05.2011, BYK. 1712.

15. *Agaricus sylvicola* (Vittad.) Pec

Baykan Urban Forest, under conifer trees, 38°10.712'N, 41°48.460'E, 727 m, 01.12.2012, BYK. 1946.

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

Karakaya village, Eğridere hamlet, under *Quercus* sp. trees, 38°03.875'N, 41°46.565'E, 559 m, 12.05.2011, BYK. 1555

17. *Cyathus olla* (Batsch) Pers.

Near the Şekerim Bridge, on woody remains, 38°11.809'N, 41°49.015'E, 775 m, 30.11.2012, BYK. 1901.

18. *Lepiota cristatoides* Einhell.

Derince village, near the *Juglans* sp. trees, meadow, 38°12.267'N, 41°47.977'E, 821 m, 12.05.2011, BYK. 1607.

19. *Lepiota ignivolvata* Bousset & Joss. ex Joss.

District center, near the Baykan State Hospital, under conifer trees, 38°09.628'N, 41°47.001'E, 720 m, 17.11.2012, BYK. 1866.

20. *Leucoagaricus barsii* (Zeller) (Zeller) Vellinga

Demirşık village, in mixed forest, 38°11.406'N, 41°50.145'E, 880 m, 17.11.2012, BYK. 1913.

21. *Leucoagaricus leucothites* (Vittad.) Wasser

District center, Gümüşhane neighbourhood, meadow, 38°10.093'N, 41°47.161'E, 815 m, 02.12.2012, BYK. 2024.

22. *Leucoagaricus serenus* (Fr.) Bon & Boiffard

Derince village, in mixed forest, 38°12.267'N, 41°47.977'E, 821 m, 12.05.2011, BYK. 1604.

23. *Lycoperdon decipiens* Durieu & Mont.

Batman provincial border, under conifer trees, 38°08.759'N, 41°38.928'E, 861 m, 28.04.2011, BYK. 1975.

24. *Lycoperdon excipuliforme* (Scop.) Pers.

District center, near the Baykan State Hospital, under conifer trees, 38°09.628'N, 41°47.001'E, 720 m, 02.12.2012, BYK. 1864.

25. *Macrolepiota excoriata* (Schaeff.) Wasser

Demirışık village, under *Quercus* sp. trees, 38°11.406'N, 41°50.145'E, 880 m, 30.11.2012, BYK. 1914.

26. *Macrolepiota mastoidea* (Fr.) Singer

Gümüşkaş village, under conifer trees, 38°08.905'N, 41°38.941'E, 830 m, 04.11.2012, BYK. 1654.

Amanitaceae R. Heim ex Pouzar

27. *Amanita argentea* Huijsman

Demirışık village, under *Quercus* sp. trees, 38°11.406'N, 41°50.145'E, 880 m, 15.11.2012, BYK. 1743.

28. *Amanita magniverrucata* Thiers & Ammirati

Karakaya village, Eğridere hamlet, under *Quercus* sp. trees, 38°03.875'N, 41°46.565'E, 559 m, 13.05.2011, BYK. 1562.

29. *Amanita phalloides* (Vaill. ex Fr.) Link

Demirışık village, under *Quercus* sp. trees, 38°11.406'N, 41°50.145'E, 880 m, 15.11.2012, BYK. 1744.

30. *Amanita proxima* Dumée

Eğridere hamlet entrance, under *Quercus* sp. trees, 38°06.374'N, 41°42.734'E, 745 m, 02.12.2012, BYK. 1994.

Bolbitiaceae Singer

31. *Bolbitius titubans* (Bull.) Fr.

Dedebakır Village Cemetery, meadow, 38°07.123'N, 41°39.517'E, 828 m, 16.11.2012, BYK. 1791.

32. *Conocybe pulchella* (Velen.) Hauskn. & Svrček

Opposite Baykan district center, under conifer trees, 38°09.725'N, 41°47.473'E, 716 m, 17.11.2012, BYK. 1875.

Hymenogastraceae Vittad.

33. *Psilocybe coronilla* (Bull.) Noordel.

Çevrimtepe village, around Şeyh Ali tomb, meadow, 38°04.630'N, 41°50.757'E, 1243 m, 17.11.2012, BYK. 1849.

Inocybaceae Jülich

34. *Inocybe nitidiuscula* (Britzelm.) Lapl.

Derince village, under *Quercus* sp. trees, 38°12.123'N, 41°48.151'E, 821 m, 27.04.2011, BYK. 1477.

35. *Inocybe pyriodora* (Pers.) P. Kumm.

Gümüşkaş village, under conifer trees, 38°08.759'N, 41°38.928'E, 861 m, 28.04.2011, BYK. 1467.

36. *Pseudosperma rimosum* (Bull.) Matheny & Esteve-Rav.

Near the Şekerim Bridge, in mixed forest, 38°11.806'N, 41°49.018'E, 754 m, 15.11.2012, BYK. 1707.

Incertae sedis

37. *Clitocybe rivulosa* (Pers.) P. Kumm.

Eğridere hamlet entrance, under *Quercus* sp. trees, 38°06.374'N, 41°42.734'E, 745 m, 02.12.2012, BYK. 2005.

38. *Lepista irina* (Fr.) H.E. Bigelow

Baykan Urban Forest, under conifer trees, 38°10.712'N, 41°48.460'E, 727 m, 01.12.2012, BYK. 1927.

39. *Lepista nuda* (Bull.) Cooke

Baykan district entrance, under conifer trees, 38°10.396'N, 41°48.880'E, 719 m, 01.12.2012, BYK. 1923.

40. *Lepista personata* (Fr.) Cooke

Near the Şekerim Bridge, under *Populus* sp. trees, 38°11.708'N, 41°49.026'E, 790 m, 02.12.2012, BYK. 2042.

41. *Melanoleuca excissa* (Fr.) Singer

Obalı village, meadow, 38°09.566'N, 41°48.651'E, 798 m, 01.12.2012, BYK. 1954.

42. *Melanoleuca graminicola* Kühner & Maire

Baykan district entrance, under conifer trees, 38°10.396'N, 41°48.880'E, 719 m, 01.12.2012, BYK. 1918.

Marasmiaceae Roze ex Kühner

43. *Marasmius rotula* (Scop.) Fr.

Demirışık village, on herb remains, 38°11.406'N, 41°50.145'E, 880 m, 30.11.2012, BYK. 1909.

44. *Omphalotus olearius* (DC) Singer

Gümüşkaş village, under conifer trees, 38°08.905'N, 41°38.941'E, 830 m, 16.11.2012, BYK. 1761.

Mycenaceae Overeem

45. *Hemimycena angustispora* (P.D. Orton) Singer

District center, under conifer trees, on pine cone remains, 38°00.725'N, 41°47.473'E, 716 m, 02.12.2012, BYK. 2016.

46. *Mycena filopes* (Bull.) P. Kumm.

Opposite Baykan district center, under conifer trees, 38°09.725'N, 41°47.473'E, 716 m, 17.11.2012, BYK. 1880.

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

District center, near the Baykan State Hospital, under conifer trees, 38°09.628'N, 41°47.001'E, 720 m, 17.11.2012, BYK. 1870.

Physalacriaceae Corner

48. *Armillaria ostoyae* (Romagn.) Herink

Dedebakır village, on log, 38°07.123'N, 41°39.517'E, 828 m, 16.11.2012, BYK. 1796.

49. *Armillaria solidipes* Peck

Dedebakır village, on log, 38°07.123'N, 41°39.517'E, 828 m, 16.11.2012, BYK. 1793.

Pleurotaceae Kühner

50. *Hohenbuehelia petaloides* (Bull.) Schulzer

Gümüşkaş village, on conifer log, 38°08.759'N, 41°38.928'E, 861 m, 28.04.2011, BYK. 1468.

51. *Hohenbuehelia tremula* (Schaeff.) Thorn & G.L. Barron

Baykan Urban Forest, under conifer trees, 38°10.712'N, 41°48.460'E, 727 m, 01.12.2012, BYK. 1926.

52. *Pleurotus eryngii* (DC.) Quél.

Çevrimtepe village, on *Ferulae* sp. remnants, 38°03.741'N, 41°50.836'E, 1012 m, 12.05.2012, BYK. 2043.

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

Engin village, around TPO water tank, on *Salix* sp. trees, 38°03.609'N, 41°46.835'E, 569 m, 02.12.2012, BYK. 2013.

Pluteaceae Kotl. & Pouzar

54. *Pluteus salicinus* (Pers.) P. Kumm.

Near the Şekerim Bridge, in mixed forest, 38°11.809'N, 41°49.015'E, 775 m, 15.11.2012, BYK. 1696.

55. *Volvariella caesiotincta* P.D. Orton

Gümüškaş village, under conifer trees, 38°08.759'N, 41°38.928'E, 861 m, 12.05.2011, BYK. 1527.

56. *Volvopluteus gloiocephalus* (DC.) Justo

Demirşik village, meadow, 38°11.406'N, 41°50.145'E, 880 m, 30.11.2012, BYK. 1911.

Psathyrellaceae Vilgalys, Moncalvo & Redhead

57. *Candolleomyces candolleanus* (Fr.) D. Wächt. & A. Melzer

Near the Şekerim Bridge, in mixed forest, 38°11.809'N, 41°49.015'E, 775 m, 30.11.2012, BYK. 1896.

58. *Coprinellus disseminatus* (Pers.) J.E. Lange

Dokuzçavuş village, near woody remains, 38°04.630'N, 41°50.757'E, 1243 m, 17.11.2012, BYK. 1848.

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

Dokuzçavuş village, meadow, 38°04.630'N, 41°50.757'E, 1243 m, 17.11.2012, BYK. 1851.

60. *Coprinopsis picacea* (Bull.) Redhead, Vilgalys & Moncalvo

Dokuzçavuş village, cemetery, in mixed forest, 38°04.584'N, 41°49.961'E, 1233 m, 17.11.2012, BYK. 1859.

61. *Panaeolus papilionaceus* (Bull.) Quél.

Çevrimtepe village, around Şeyh Ali tomb, on dung, 38°03.465'N, 41°50.369'E, 954 m, 02.12. 2012, BYK. 1992.

62. *Parasola auricoma* (Pat.) Redhead, Vilgalys & Hopple.

Baykan Urban Forest, under conifer trees, 38°06.580'N, 41°41.481'E, 788 m, 17.11.2012, BYK. 1890.

63. *Psathyrella olympiana* A.H. Sm.

Near the Şekerim Bridge, streamside, in mixed forest, 38°11.806'N, 41°49.018'E, 754 m, 15.11.2012, BYK. 1727.

64. *Psathyrella phegophila* Romagn.

Near the Şekerim Bridge, field edge, 38°11.809'N, 41°49.015'E, 775 m, 30.11.2012, BYK. 1890.

65. *Psathyrella pseudogracilis* (Romagn.) M.M. Moser

Near the Şekerim Bridge, streamside, under *Platanus* sp. tree, 38°11.806'N, 41°49.018'E, 754 m, 15.11.2012, BYK. 1721.

Pseudoclitocybaceae Vizzini, Consiglio, P.-A. Moreau & P. Alvarado

66. *Pseudoclitocybe expallens* (Pers.) M.M. Moser

Obalı village, meadow, 38°09.566'N, 41°48.651'E, 798 m, 01.12.2012, BYK. 1955.

Strophariaceae Singer & A.H. Sm.

67. *Agrocybe paludosa* (J.E. Lange) Kühner & Romagn. ex Bon

Opposite Baykan district center, under conifer trees, on moss, 38°09.725'N, 41°47.473'E, 716 m, 12.05.2012, BYK. 1520.

68. *Cyclocybe cylindracea* (DC.) Vizzini & Angelini

Yarımca village, on log, 38°11.244'N, 41°51.929'E, 1064 m, 5.11.2012, BYK. 1754

69. *Deconica coprophila* (Bull.) P. Karst.

Çevrimtepe village, around Şeyh Ali tomb, on dung, 38°03.456'N, 41°50.406'E, 937 m, 28.04. 20112, BYK. 1483.

70. *Pholiota decussata* (Fr.) M.M. Moser

Demirşik village, under *Quercus* sp. trees, 38°11.406'N, 41°50.145'E, 880 m, 30.11.2012, BYK. 1917.

71. *Protostropharia semiglobata* (Batsch) Redhead, Moncalvo, Vilgalys

Baykan Urban Forest, on dung, 38°10.712'N, 41°48.460'E, 729 m, 01.12.2012, BYK. 1936.

Tricholomataceae R. Heim ex Pouzar

72. *Tricholoma virgatum* (Fr.) P. Kumm.

Baykan district entrance, under conifer trees, 38°10.396'N, 41°48.880'E, 719 m, 01.12.2012, BYK. 1919.

Tubariaceae Vizzini

73. *Tubaria furfuracea* (Pers.) Gillet

Near the Şekerim Bridge, under *Populus* sp. trees, 38°11.806'N, 41°49.018'E, 754 m, 03.11.2012, BYK. 1594.

Boletales E.-J. Gilbert

Boletaceae Chevall.

74. *Butyriboletus fechtneri* (Velen.) D. Arora & J.L. Fr

Demirşik village cemetery, under *Quercus* sp. trees, 38°11.406'N, 41°50.145'E, 880 m, 17.11.2012, BYK. 1902.

75. *Rubroboletus lupinus* (Fr.) Costanzo, Gelardi, Simonini & Vizzini

Demirşik village cemetery, under *Quercus* sp. trees, 38°11.406'N, 41°50.145'E, 880 m, 15.11.2012, BYK. 1746.

76. *Rubroboletus satanas* (Lenz) Kuan Zhao & Zhu L. Yang

Eğridere hamlet entrance, under *Quercus* sp. trees, 38°06.362'N, 41°42.740'E, 743 m, 13.05.2011, BYK. 1565.

Gomphidiaceae Maire ex Jülich

77. *Chroogomphus rutilus* (Schaeff.) O.BYK. Mill.

Baykan Urban Forest, under conifer trees, 38°10.289'N, 41°48.678'E, 758 m, 12.05.2011, BYK. 1508.

Rhizopogonaceae Gäum. & C.W. Dodge78. *Rhizopogon luteolus* Fr.

Baykan district entrance, under conifer trees, 38°10.396'N, 41°48.880'E, 719 m, 01.12.2012, BYK. 1925.

Suillaceae Besl & Bresinsky79. *Suillus collinitus* (Fr.) Kuntze

Gümüškaş village, under conifer trees, 38°08.905'N, 41°38.941'E, 830 m, 16.11.2012, BYK. 1766.

80. *Suillus granulatus* (L.) Roussel

Baykan district entrance, under conifer trees, 38°10.396'N, 41°48.880'E, 719 m, 01.12.2012, BYK. 1921.

Gomphales Jülich**Gomphaceae** Donk81. *Ramaria gracilis* (Pers.) Quéf

Baykan Urban Forest, under conifer trees, 38°10.712'N, 41°48.460'E, 727 m, 01.12.2012, BYK. 1938.

Polyporales Gäum.**Fomitopsidaceae** Jülich82. *Laetiporus sulphureus* (Bull.) Murrill

Günbuldu village, on log, 38°11.945'N, 41°47.982'E, 898 m, 27.04.2011, BYK. 1387.

Polyporaceae Fr. ex Corda83. *Cerioporus squamosus* (Huds.) Quéf.

Obalı village, on *Salix* sp. trees, 38°09.566'N, 41°48.651'E, 798 m, 08.05.2010. BYK. 1318.

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

Dedebakır village, on log, 38°07.123'N, 41°39.517'E, 828 m, 04.11.2012, BYK. 1660.

Russulales Kreisel ex P.M. Kirk, P.F. Cannon & J.C. David**Russulaceae** Lotsy85. *Lactarius deliciosus* (L.) Gray

Baykan district entrance, under conifer trees, 38°09.725'N, 41°47.473'E, 716 m, 02.12.2012, BYK. 2017.

86. *Russula delica* Fr.

Çaykara village, under *Quercus* sp. trees, 38°03.895'N, 41°46.558'E, 566 m, 12.05.2011, BYK. 1535

87. *Russula pallidospora* J. Blum ex Romagn.

Karakaya village, Eğridere hamlet, under *Quercus* sp. trees, 38°03.875'N, 41°46.565'E, 559 m, 13.05.2011, BYK. 1544.

Stereaceae Pilát88. *Stereum hirsutum* (Willd.) Pers.

Gümüškaş village, on conifer log, 38°08.905'N, 41°38.941'E, 830 m, 01.12.2012, BYK. 1973.

4. Discussions

Eighty-eight macromycete species were determined from the research area. Nine of them (%10.23) belong to *Ascomycota* and seventy nine (%89.77) to *Basidiomycota*. The taxa are distributed in 2 classes (*Agaricomycetes* 79, *Pezizomycetes* 9) and 6 orders. The order-wise distribution of the determined taxa is presented in Figure 2.

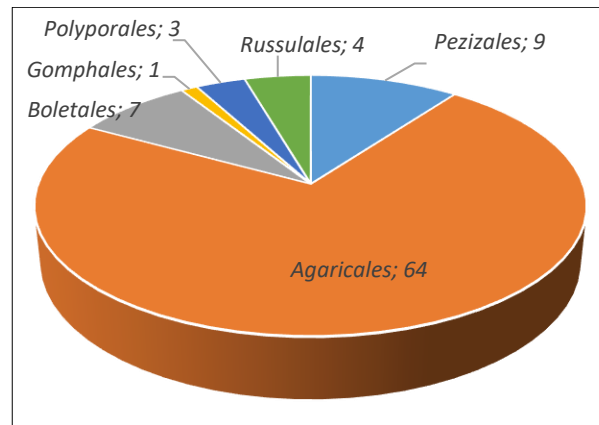


Figure 2. Distribution of identified taxa into orders

The taxa are distributed in 29 families and 56 genera. Six of the determined 88 species are currently in *Incertae sedis* position at the family level.

Agaricaceae is the most crowded family with 17 taxa. *Psathyrellaceae* is the second with 9 taxa. *Strophariaceae* comprise 5 taxa. *Amanitaceae* and *Pleurotaceae* comprise 4 taxa. In the region seven families (*Helvellaceae*, *Morchellaceae*, *Inocybaceae*, *Pluteaceae*, *Mycenaceae*, *Boletaceae*, *Russulaceae*) are represented with three taxa, and six families (*Pezizaceae*, *Bolbitiaceae*, *Marasmiaceae*, *Physalacriaceae*, *Suillaceae*, *Polyporaceae*) are represented with two taxa, while the rest of ten families are represented with only one taxon.

The genus *Agaricus* L. was found to be the most crowded genus in the area with 6 taxa. It is followed by *Amanita* Pers. with 4 taxa. *Helvella* L., *Morchella* Dill. ex Pers., *Lepista* (Fr.) W.G. Sm., *Leucoagaricus* Locq. ex Singer and *Psathyrella* (Fr.) Quéf. are represented with 3 taxa, while *Armillaria* (Fr.) Staude, *Coprinellus* P. Karst., *Hohenbuehelia* Schulzer, *Inocybe* (Fr.) Fr., *Lepiota* (Pers.) Gray, *Lycoperdon* Pers., *Macrolepiota* Singer, *Melanoleuca* Pat., *Mycena* (Pers.) Roussel, *Peziza* Dill. ex Fr., *Pleurotus* (Fr.) P. Kumm., *Rubroboletus* Kuan Zhao & Zhu L. Yang, *Russula* Pers. and *Suillus* Gray are represented with 2 taxa, other 35 genera are represented in the region with only one taxon.

Forty seven of the taxa are edible, 30 are inedible while 11 are more or less poisonous. Although the research area is very rich in terms of edible species, local people do not consume many unfamiliar mushrooms for fear of being poisonous. Tough %53.41 of the determined taxa are edible, only two of them (*Agaricus campestris* and *Pleurotus eryngii*) are collected and consumed by the locals.

The species identified in the district show some similarities with those determined by nearby investigations. The details of these investigations and the corresponding similarity percentages are provided in Table 1. The likely reason for this similarity and dissimilarity could be the shared vegetation and climate.

Conflict of Interest

Authors have declared no conflict of interest.

Authors' Contributions

The authors contributed equally.

Table 1. The percentage of similarity of the findings to the investigations conducted in neighboring districts

Study	Study area	Total taxa	Number of identical taxa	Similarity percentage (%)
Kaya (2001)	Bitlis	60	18	30.00
Demir et al. (2007)	Batman	50	17	34.00
Acar et al. (2015)	Hani (Ağrı)	101	23	22.77
Demirel et al. (2015)	Van	122	27	22.13
Demirel and Dengiz (2016)	Şirvan (Siirt)	53	15	28.31
Demirel et al. (2016)	Lice (Diyarbakır)	55	18	32.72
Sadullahoğlu and Uzun (2020)	Karz Dağı (Tatvan-Bitlis)	95	17	17.89

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