



## Macromycetes determined in Yıldız Mountain (Sivas)

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### Yıldız Dağı (Sivas)'nda belirlenen makromantarlar

**Abstract:** In this study macrofungi determined at Yıldız Mount (Sivas-Türkiye), through the identification on the samples collected between 2019-2020, are presented. As a result of field and laboratory studies, 62 species within 26 families were identified. Four of them belong to the division *Ascomycota* and 58 to *Basidiomycota*. The determined species are listed together with their collection localities, habitats, edibility status and voucher numbers.

**Key words:** Biodiversity, macrofungi, mycota, Türkiye

**Özet:** Bu çalışmada, 2019-2020 yılları arasında toplanan örneklerin teşhisiyle Yıldız Dağı (Sivas-Türkiye)'nda belirlenen makromantarlar verilmektedir. Arazi ve laboratuvar çalışmaları sonucunda, 26 familya içerisinde yer alan 62 tür tespit edilmiştir. Bunlardan dört tanesi *Ascomycota*, 58 tanesi ise *Basidiomycota* bölümüne aittir. Belirlenen türler, lokaliteleri, habitatları, yenilebilirlik durumları ve toplayıcı numaraları ile birlikte listelenmiştir.

**Anahtar Kelimeler:** Biyoçeşitlilik, makromantarlar, mikota, Türkiye

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## 1. Introduction

Yıldız Mountain is located within the boundaries of Sivas province, and situated between 37°40'-38°12' northern latitudes and 35°06'-35°37' eastern longitudes (Figure 1). The mounth is a natural habitat for a number of trees such as *Pinus sylvestris* L., *Juniperus oxycedrus* L., *Salix alba* L., *Populus tremula* L. and *Quercus* L. species.

As a result of numerous studies conducted within the boundaries of Türkiye, about 2600 macrofungi species have been recorded for Turkish mycota (Sesli et al., 2020; Solak and Türkoğlu, 2023). New contributions have also been made by some recent studies (Çetinkaya and Uzun, 2021; Polat and Keleş, 2022; Şengül Demirak et al., 2022; Acar, 2023; Akçay, 2023; Çelik and Alma, 2023; Kaygusuz et al., 2023; Kuru and Allı, 2023; Şahin, et al., 2023; Sesli, 2023a,b,c; Uzun, 2023; Uzun and Kaya, 2023; Yeşilyurt et al., 2023).

Some studies have also been carried out on the macrofungi of the Sivas region (Hüseyinov et al. 2001; Kırış et al. 2012), but they don't cover the province as a whole. The study aims to determine the macrofungal composition of Yıldız Mountain, and to make a contribution to the mycobiota of Türkiye.

## 2. Materials and Method

Macrofungi samples were collected from Yıldız Mountain within the boundaries of Sivas province during field studies performed between 2019 and 2020. Fruit bodies were photographed at their natural habitats and notes were taken about their morphology, ecology and geographic position. Then the fruit bodies were collected and put in paper boxes. Then they were transferred to the fungarium, and dried in

an air conditioned room. Micromorphological investigations were based on dry materials. The specimens were identified with the help of the relevant literature (Phillips, 1981; Moser, 1983; Breitenbach and Kränzlin, 1984, 1986, 1991, 1995, 2000; Buczacki, 1989; Bresinsky and Besl, 1990; Jordan, 1995). The specimens are kept in the fungarium of Biology Department, Science and Arts Faculty, Tokat Gaziosmanpaşa University.

## 3. Results

The determined macrofungi species are listed together with their collection locality, habitat, geographical position, collection date, voucher numbers and edibility status. Index Fungorum (accessed on 20 August 2022) were followed for the systematics of the taxa.

**Fungi** R.T. Moore

**Ascomycota** Whittaker

**Pezizales** J. Schröt.

**Morchellaceae** Rchb

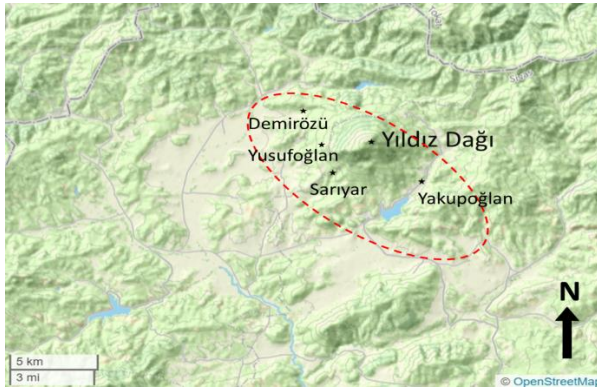
**1. Morchella esculenta** (L.) Pers.

Sivas, Yıldızeli, Demirözü Village, forest area, 40°11'30.0"N-36°51'18.3"E, 1505 m, 06.06.2020, YILDIZ 35. Edible.

**Pezizaceae** Dumort.

**2. Legaliana badia** (Pers.) Van Vooren

Sivas, Yıldızeli, Yusufoglan Village, forest area, 40°07'57.5"N-36°54'57.5"E, 2033 m, 27.06.2020, YILDIZ 56. Poisonous when eaten raw, edible when cooked.



**Figure 1.** Map of the research area (modified from Google Earth)

**3. *Peziza cerea*** Sowerby

Sivas, Yıldızeli, Yusufoğlan Village, forest area, 40°07'58.5"N-36°55'30.1"E, 1966 m, 02.06.2019, YILDIZ 13. Poisonous.

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

Sivas, Yıldızeli, Demirözü Village, forest area, 40°11'30.9"N-36°51'17.6"E, 1500 m, 06.06.2020, YILDIZ 27. Poisonous.

**Basidiomycota** R.T. Moore

**Agaricales** Underw.

**Agaricaceae** Chevall.

**5. *Agaricus bernardii*** Quéf.

Sivas, Central district, Yakupoğlan Village, among grass in forest, 40°09'08.1"N-36°53'48.2"E, 1421 m, 06.06.2020, YILDIZ 25. Edible.

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

Sivas, Central district, Yıldız Town, among grass, 40°03'53.2"N-36°54'38.6"E, 1.454 m, 05.05.2019, YILDIZ 2, Edible. Sivas-Central-Yıldızdağı ski facilities, green area, 40°08'04.2"N-36°56'25.2"E, 1736 m, 10.05.2019, YILDIZ 7. Edible.

**7. *Agaricus campestris*** L.

Sivas, Yıldızeli, Sarıyar Village, green area, 40°07'45.8"N-36°53'28.9"E, 1819 m, 05.05.2019, YILDIZ 1; Sivas-Central-Yıldızdağı, ski facilities, grass land, 40°08'20.6"N-36°56'29.7"E, 1701 m, 24.06.2020, YILDIZ 47. Edible.

**8. *Agaricus xanthodermus*** Genev.

Sivas, Yıldızdağı ski facilities, among grass in forest, 40°08'10.9"N-36°56'43.3"E, 1674 m, 06.06.2020, YILDIZ 26. Poisonous.

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

Sivas, Central district, Yakupoğlan Village, grass land, 40°06'24.5"N-36°57'18.0"E, 1527 m, 10.05.2020, YILDIZ 21, Edible. Sivas-Yıldızeli-Sarıyar Village, green area, 40°07'37.3"N-36°53'27.4"E, 1801 m, 31.05.2020, YILDIZ 23. Edible.

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

Sivas, Yıldızeli, Demirözü, forest area, 40°11'31.8"N-36°51'17.1"E, 1496 m, 06.06.2020, YILDIZ 28. Inedible.

**Amanitaceae** E.-J. Gilbert

**11. *Amanita ceciliae*** (Berk. & Broome) Bas

Sivas, Yıldızeli, Yusufoğlan Village, forest area, 40°08'50.8"K-36°54'40.8"D, 1753 m, 27.06.2020, YILDIZ 57. Poisonous.

**12. *Amanita nivalis*** Grev.

Sivas, Yıldızeli, Yusufoğlan Village, among grass, 40°09'09.5"K-36°54'02.3"D, 1433 m, 27.06.2020, YILDIZ 61. Inedible.

**13. *Amanita vaginata*** (Bull.) Lam.

Sivas, Yıldızeli, Yusufoğlan Village, forest area, 40°09'07.7"K-36°53'53.2"D, 1432 m, 27.06.2020, YILDIZ 58. Edible

**Inocybaceae** Jülich

**14. *Inocybe inodora*** Velen.

Sivas, Yıldızeli, Sarıyar Village, grass land, 40°07'37.3"N-36°53'27.4"E, 1.801 m, 31.05.2020, YILDIZ 22. Poisonous.

**Hygrophoraceae** Lotsy

**15. *Hygrocybe acutoconica*** (Clem.) Singer

Sivas, Central district, Yıldızdağı, ski facilities, grassland, 40°08'04.7"N-36°56'25.3"E, 1734 m, 24.06.2020, YILDIZ 45, Inedible.

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

Sivas, Central district, Demirözü Village, forest area, 40°11'29.6"K-36°51'26.6"D, 1548 m, 27.06.2020, YILDIZ 59, Edible.

**Lycoperdaceae** Chevall.

**17. *Bovista plumbea*** Pers.

Sivas, Central district, Yıldızdağı, ski facilities, grass land, 40°08'20.6"N-36°56'29.7"E, 1701 m, 24.06.2020, YILDIZ 46, Edible.

**18. *Bovistella utriformis*** (Bull.) Demoulin & Rebriev

Sivas, Yıldızeli, Yusufoğlan Village, forest area, 40°08'01.6"N-36°55'23.6"E, 1974 m, 26.10.2019, YILDIZ 18, Edible.

**19. *Lycoperdon perlatum*** Pers.

Sivas, Yıldızeli, Demirözü Village, forest area, 40°11'30.9"N-36°51'16.1"E, 1493 m, 24.06.2020, YILDIZ 44, Edible.

**Marasmiaceae** Roze ex Kühner

**20. *Marasmius oreades*** (Bolton) Fr.

Sivas, Yıldızeli, Demirözü Village, forest area, 40°11'32.4"N-36°51'20.7"E, 1509 m, 06.06.2020, YILDIZ 34, Edible.

**Mycenaceae** Overeem

**21. *Mycena crocata*** (Schrad.) P. Kumm.

Sivas, Yıldızeli, Demirözü Village, forest area, 40°11'30.9"N-36°51'16.1"E, 1493 m, 26.10.2019, YILDIZ 20, Edible.

**22. *Mycena leptcephala* (Pers.) Gillet**

Sivas, Yıldızeli, Demirözü Village, forest area, 40°11'30.0"N-36°51'18.3"E, 1505 m, 06.06.2020, YILDIZ 19, Inedible.

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

Sivas, Yıldızeli, Demirözü Village, forest area, 40°11'32.7"N-36°51'16.3"E, 1490 m, 06.06.2020, YILDIZ 29, Poisonous.

**24. *Mycena renati* Qué.**

Sivas, Yıldızeli, Demirözü Village, forest area, 40°11'32.7"N-36°51'16.3"E, 1490 m, 06.06.2020, YILDIZ 31, Inedible.

**25. *Mycena rosea* Gramberg**

Sivas, Yıldızeli, Demirözü Village, forest area, 40°11'30.0"N-36°51'18.3"E, 1505 m, 06.06.2020, YILDIZ 30, Inedible.

***Pleurotaceae* Kühner****26. *Pleurotus eryngii* (DC.) Qué.**

Sivas, Yıldızeli, Yusufoglan Village, forest area, 40°08'09.0"K-36°55'29.7"D, 1885 m, 27.06.2020, YILDIZ 62, Edible.

***Physalacriaceae* Corner****27. *Hymenopellis radicata* (Relhan) R.H. Petersen**

Sivas, Yıldızeli, Yusufoglan Village, forest area, 40°08'03.5"K-36°55'14.1"D, 1980 m, 27.06.2020, YILDIZ 60, Edible.

***Psathyrellaceae* Vilgalys, Moncalvo & Redhead****28. *Coprinellus micaceus* (Bull.) Vilgalys, Hopple & Jacq. Johnson**

Sivas, Central district, Yakupoğlan, around decaying stump, 40°08'10.2"N-36°56'56.8"E, 1653 m, 02.06.2019, YILDIZ 9, Inedible.

**29. *Coprinopsis atramentaria* (Bull.) Redhead, Vilgalys & Moncalvo**

Sivas, Central district, Yıldız Town, around decaying stump, 40°05'10.8"N 36°55'27.2"E, 1502 m, 27.06.2020, YILDIZ 65, Poisonous.

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

Sivas, Central district, Yıldız Town, on cow dung, 40°04'56.9"N-36°54'44.6"E, 1.532 m, 02.06.2019, YILDIZ 8, Inedible.

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

Sivas, Central district, Yakupoğlan Village, among grass, 40°08'08.5"N-36°57'02.3"E, 1661 m, 26.10.2019, YILDIZ 17, Inedible.

***Schizophyllaceae* Qué.****32. *Schizophyllum commune* Fr.**

Sivas, Merkez, Demirözü Village, forest area, 40°11'39.2"K-36°51'12.5"D, 1453 m, 27.06.2020, YILDIZ

63, Inedible.

***Galeropsidaceae* Singer****33. *Panaeolus papilionaceus* (Bull.) Qué.**

Sivas, Yıldızeli, Yusufoglan Village, among grass, 40°07'59.7"N-36°55'32.6"E, 1947 m, 02.06.2019, YILDIZ 12, Poisonous.

***Strophariaceae* Singer & A.H. Sm.****34. *Protostropharia semiglobata* (Batsch) Redhead**

Sivas, Central district, Yakupoğlan Village, among grass, 40°08'04.4"N-36°57'08.2"E, 1649 m, 06.06.2020, YILDIZ 24, Inedible.

***Hymenogastraceae* Vittad.****35. *Psilocybe coronilla* (Bull.) Noordel.**

Sivas, Yıldızeli, Yusufoglan Village, among grass, 40°08'02.7"N-36°55'20.4"E, 1971 m, 24.06.2020, YILDIZ 41, Inedible.

***Tricholomataceae* R. Heim ex Pouzar****36. *Atractosporocybe inornata* (Sowerby) P. Alvarado, G. Moreno & Vizzini**

Sivas, Yıldızeli, Yusufoglan Village, forest area, 40°08'04.0"N-36°55'16.8"E, 1965 m, 24.06.2020, YILDIZ 43, Inedible.

***Omphalotaceae* Bresinsky****37. *Gymnopus dryophilus* (Bull.) Murrill**

Sivas, Yıldızeli, Yusufoglan Village, in mixed forest, 40°08'04.7"N-36°55'14.8"E, 1963 m, 24.06.2020, YILDIZ 42, Edible.

**38. *Infundibulicybe gibba* (Pers.) Harmaja**

Sivas, Yıldızeli, Sarıyar Village, among grass in forest, 40°07'37.6"K-36°52'28.7"D, 1506 m, 27.06.2020, YILDIZ 55, Edible.

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

Sivas, Central district, Yakupoğlan Village, among grass, 40°08'10.4"N-36°56'42.2"E, 1679 m, 05.05.2019, YILDIZ 3, Edible.

**40. *Lepista nuda* (Bull.) Cooke**

Sivas, Yıldızeli, Yusufoglan Village, forest area, 40°08'04.0"N-36°55'13.8"E, 1974 m, 24.06.2020, YILDIZ 40, Edible.

**41. *Melanoleuca polioleuca* (Fr.) Kühner & Maire**

Sivas, Yıldızeli, Sarıyar Village, green area, 40°07'43.5"N-36°53'28.0"E, 1816 m, 06.06.2020, YILDIZ 38, Edible.

***Physalacriaceae* Corner****42. *Strobilurus tenacellus* (Pers.) Singer**

Sivas, Yıldızeli, Demirözü Village, forest area, 40°11'32.4"N-36°51'20.7"E, 1509 m, 06.06.2020, YILDIZ 36, Inedible.

***Boletales* E.-J. Gilbert*****Boletaceae* Chevall.**

**43. *Leccinum versipelle*** (Fr. & Hök) Snell

Sivas, Central district, Yakupoğlan Village, wooded area, 40°08'10.3"N-36°57'03.6"E, 1649 m, 24.06.2020, YILDIZ 49. Edible.

**44. *Xerocomellus chrysenteron*** (Bull.) Šutara

Sivas, Central district, Yakupoğlan Village, grassland, 40°08'13.9"N-36°56'45.8"E, 1662 m, 24.06.2020, YILDIZ 48. Edible.

**Gomphidiaceae** Maire ex Jülich

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

Sivas, Central district, Yakupoğlan Village, green area, 40°08'15.2"N-36°56'52.3"E, 1634 m, 26.10.2019, YILDIZ 15. Edible.

**Paxillaceae** Lotsy

**46. *Paxillus involutus*** (Batsch) Fr.

Sivas, Yıldızeli, Sarıyar Village, grass land, 40°07'45.8"N-36°53'28.9"E, 1815 m, 24.06.2020, YILDIZ 39. Poisonous.

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

**47. *Rhizopogon luteolus*** Fr.

Sivas, Central district, Yıldızdağı ski facilities, grassland, 40°08'21.7"N-36°56'27.3"E, 1705 m, 29.06.2019, YILDIZ 14. Edible.

**Suillaceae** (Singer) Besl & Bresinsky

**48. *Suillus granulatus*** (L.) Roussel

Sivas, Yıldız Mountain ski resort facilities, forest area, 40°08'04.2"N-36°56'25.2"E, 1736 m, 10.05.2019, YILDIZ 5. Edible.

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

Sivas, Yıldız Mountain ski resort facilities, grassland, 40°08'07.8"N-36°56'30.8"E, 1715 m, 10.05.2019, YILDIZ 4, Edible.

**Geastrales** K. Hosaka & Castellano

**Geastraceae** Corda

**50. *Geastrum coronatum*** Pers.

Sivas, Yıldız Mountain ski resort facilities, forest area, 40°08'20.2"N-36°56'26.9"E, 1713 m, 10.05.2019, YILDIZ 6. Inedible.

**Polyporales** Gäum.

**Panaceae** Miettinen, Justo & Hibbett

**51. *Panus conchatus*** (Bull.) Fr.

Sivas, Yıldızeli, Yusufoglan Village, around decaying stump, 40°07'59.7"N-36°55'32.6"E, 1947 m, 02.06.2019, YILDIZ 11. Inedible.

**Polyporaceae** Fr. ex Corda

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

Sivas, Yıldızeli, Yusufoglan, forest area, 40°08'00.3"N-36°55'31.9"E, 1945 m, 02.06.2019, YILDIZ 10. Inedible.

**53. *Polyporus brumalis*** (Pers.) Fr.

Sivas, Yıldızeli, Demirözü, forest area, 40°11'31.6"N-36°51'15.8"E, 1494 m, 06.06.2020, YILDIZ 32. Inedible.

**54. *Polyporus dictyopus*** Mont.

Sivas, Yıldızeli, Demirözü Village, forest area, 40°11'31.7"N-36°51'16.7"E, 1497 m, 06.06.2020, YILDIZ 33. Inedible.

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

Sivas, Yıldızeli, Demirözü Village, forest area, 40°11'31.3"N-36°51'15.6"E, 1493 m, 06.06.2020, YILDIZ 37. Inedible.

**Auriscalpiaceae** Maas Geest.

**56. *Auriscalpium vulgare*** Gray

Sivas, Central district, Yakupoğlan Village, grassland, 40°08'11.0"N-36°56'51.5"D, 1661 m, 26.10.2019, YILDIZ 16. Inedible.

**Russulales** Kreisel ex P.M. Kirk, P.F. Cannon & J.C. David

**Russulaceae** Lotsy

**57. *Lactarius acerrimus*** Britzelm.

Sivas-Merkez-Yakupoğlan Village, among leaf litter in forest, 40°08'10.7"N 36°57'03.5"E, 1643 m, 27.06.2020, YILDIZ 54. Inedible.

**58. *Lactarius blennius*** (Fr.) Fr.

Sivas, Central district, Yakupoğlan Village, forest area, 40°08'13.5"N-36°57'01.5"D, 1622 m, 27.06.2020, YILDIZ 64. Inedible.

**59. *Russula aurea*** Pers.

Sivas, Central district, Yıldız Village, forest area, 40°03'50.3"N-36°54'35.7"E, 1452 m, 24.06.2020, YILDIZ 52. Edible.

**60. *Russula brunneoviolacea*** Crawshay

Sivas, Merkez, Demirözü Village, forest area, 40°11'34.5"N-36°51'18.8"E, 1498 m, 27.06.2020, YILDIZ 68. Edible.

**61. *Russula roseipes*** Secr. ex Bres.

Sivas, Central district, Yakupoğlan Village, forest area, 40°08'08.4"N-36°57'02.0"D, 1661 m, 24.06.2020, YILDIZ 50. Inedible.

**Stereaceae** Pilát

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

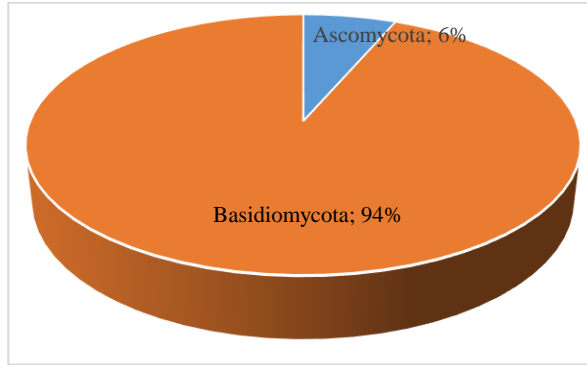
Sivas, Central district, Yakupoğlan Village, forest area, 40°08'07.4"N-36°57'04.2"D, 1661 m, 24.06.2020, YILDIZ 51. Inedible

**4. Discussions**

As a result of the field and laboratory studies, 62 taxa belonging to 2 divisions, 26 families and 46 genera were identified. 4 (6%) taxa belonged to Ascomycota, and the remaining 58 (94%) taxa belonged to Basidiomycota divisions (Figure 2). Of the 62 taxa determined in the study

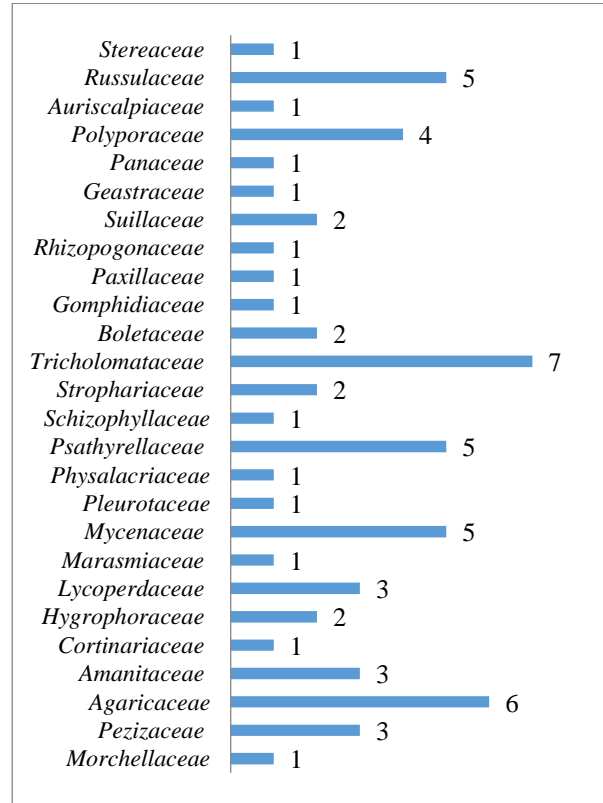
area, 28 (45.16%) were edible, 26 were inedible (41.94%), and 8 were poisonous (12.90%).

The most represented families are the *Tricholomataceae* family 7 species, *Agaricaceae* family 6 species, *Mycenaceae*, *Psathyrellaceae* and *Russulaceae* families 5 species, *Polyporaceae* family 4 species, *Pezizaceae*, *Amanitaceae* and *Lycoperdaceae* families 3 species and *Suillaceae*, *Boletaceae* *Strophariaceae*, *Pezizaceae* families with 2 species. The distribution of macrofungus taxa detected in the research region according to families is given in Figure 3.



**Figure 2.** Distribution of identified taxa according to sections

The results obtained in this study are showed similarities when compared with studies conducted in neighboring regions. These studies and the similarity percentages are given in Table 1. According to this, the highest similarity percentage was found 33.3% in the study conducted by Türkekul and Zulfikaroğlu (2010) in Çamlıbel (Tokat) district. Also the lowest similarity percentage was found 7.35% in the study conducted by Hüseyinov et al. (2001) (Sivas) district. The similarity percentages with other



studies in neighboring regions were 26.8% (Kırış et al., 2012) Gemerek (Sivas), 28.8% (Türkekul, 2003) Tokat respectively.

#### Conflict of Interest

Authors have declared no conflict of interest.

#### Authors' Contributions

The authors contributed equally.

**Table 1.** Comparison of studies carried out in Yıldız mountain and nearby areas

Neighbouring study	Working area	# of identical taxa	Total taxa	Similarity percentae (%)
Hüseyinov (2001)	Sivas	5	68	7.35
Türkekul (2003)	Tokat	17	59	28.81
Türkekul and Zulfikaroğlu (2010)	Çamlıbel (Tokat)	17	51	33.33
Kırış et al. (2012)	Gemerek (Sivas)	11	41	26.82

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