

Checklist of macrofungi from oak forests in the Republic of Kosovo

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Ramshaj Q., Rusevska K., Tofilovska S., Karadelev M. (2021): Checklist of macrofungi from oak forests in the Republic of Kosovo. – Czech Mycol. 73(1): 21–42.

In the period from 2017 to 2019 a survey of the diversity of fungi in oak forests in the Republic of Kosovo was conducted. The survey included 31 localities, mainly in *Quercetum frainetto-cerris* and *Quercus-Carpinetum orientalis* communities. As a result of the fieldwork performed in various seasons, a first checklist of fungi from oak forests in the country is provided. A total of 220 taxa (219 species and one forma) were identified. The majority of the identified taxa belong to *Basidiomycota* (206) and only 14 species to *Ascomycota*. The paper provides a list of all recorded species with data on locality, altitude, time of collection, forest association and type of substrate. Distribution and ecology of selected rare or threatened species are briefly discussed.

Key words: fungi, taxa, Balkan Peninsula, diversity, ecology, rare species.

Article history: received 27 May 2020, revised 14 November 2020, accepted 14 December 2020, published online 12 February 2021 (including Electronic supplement).

DOI: <https://doi.org/10.33585/cmy.73102>

Ramshaj Q., Rusevska K., Tofilovska S., Karadelev M. (2021): Checklist makromycetů v doubravách Kosovské republiky. – Czech Mycol. 73(1): 21–42.

Výzkum diverzity hub v doubravách na území Kosovské republiky proběhl v letech 2017 až 2019 celkem na 31 lokalitách, zejména v porostech společenstev *Quercetum frainetto-cerris* a *Quercus-Carpinetum orientalis*. Jako výsledek terénní práce, realizované v různých ročních obdobích, je představen první checklist hub z dubových porostů v této zemi. Celkem bylo určeno 220 taxonů (219 druhů a 1 forma), většinou stopkovýtusných hub (206) a jen 14 druhů hub vřeckatých. Studie podává kompletní přehled zaznamenaných druhů s údaji o jejich lokalitách, nadmořské výšce, době sběru, lesních společenstvech a typu substrátu. Krátce je diskutováno rozšíření a ekologie vybraných vzácných nebo ohrožených druhů.

INTRODUCTION

Kosovo is a small country situated in Southeast Europe, in the central part of the Balkan Peninsula, covering an area of 10,887 km². Although it occupies a very small area on the Balkan Peninsula (2.3%), geological and climatic factors have distinguished it by the presence of numerous natural resources and high values of biodiversity (Hoxha 2000). Based on the Kosovo forest inventory (Tomter et al. 2013), the territory of the country is dominated by forests, covering a total of 44% or 481,000 ha. Oak forests in Kosovo are located mainly in hilly and mountainous areas which are characterised by a unique floristic composition. Due to the development of human settlements and logging activities, forest habitats have been greatly reduced in their extent over the years (Rexhepi 1976, 1982, Millaku et al. 2013). The observed anthropogenic impact has resulted in irreversible degradation and reduction of forested areas (Krasniqi 1972).

From a biodiversity point of view, a lot of research has been conducted on the flora of Kosovo but the fungal diversity has not received the same attention. The first data pertaining to macromycetes of Kosovo are from research conducted by Tortić et Sylejmani (1982), who reported 32 species in total, of which 31 species belong to *Basidiomycota*. In the mentioned article, seven terricolous fungi had been collected at Oshlak: *Chalciporus pseudorubinus* (Thirring) Pilát et Dermek, *Chroogomphus rutilus* (Schaeff.) O.K. Mill., *Cystoderma carcharias* (Pers.) Fayod, *Hygrophorus gliocyclus* Fr., *Lepista nebularis* (Batsch) Harmaja, *Suillus collinitus* (Fr.) Kuntze, and *Tricholoma imbricatum* (Fr.) P. Kumm. Four taxa had been identified in the Koritnik mountains: *Amylocorticium* sp., *Ditiola radicata* (Alb. et Schwein.) Fr., *Hyphodontia aspera* (Fr.) J. Erikss., and *Phlebia segregata* (Bourdot et Galzin) Parmasto. The list of species by Tortić et Sylejmani (1982) also includes 21 lignicolous fungi collected in forests of Heldreich's Pine (*Pinus heldreichii* H. Christ).

More recently, a study on the diversity of fungi in Gërmia Park was performed by Veselaj (2000), who reported 83 species belonging to the two major divisions, *Basidiomycota* with 78 species and *Ascomycota* with five species. The survey was conducted in deciduous forests (oak and beech forests), where 71 species were present, in pine forests with four species and on pastures and meadows, where eight species were found. From this list of species, the species *Boletus edulis* Bull., *Cantharellus cibarius* Fr. and *Amanita caesarea* (Scop.) Pers. are the most interesting macrofungal species, since they are included in the Red Book of Albania (Misja 2006), as well as the species *Hygrocybe coccinea* (Schaeff.) P. Kumm., *Russula virescens* (Schaeff.) Fr. and *Sarcoscypha coccinea* (Gray) Boud., classified as threatened species (Mustafa et al. 2016).

The scarcity of data motivated mycologists to perform a survey of the diversity of fungi in Kosovo. The most recent and detailed investigation into Kosovo's fungal diversity started in the period 2017–2018, supported by the Rufford Foundation within the project “Fungi of Kosovo: Establishing Fungi Checklist and Preliminary Red List, and Proposing Important Fungal Areas”. As part of this research a database of Kosovo fungi (<https://macfungi.webs.com/fungi-of-kosovo>) was created, which contains data on the biodiversity of mushrooms from different localities and different types of forest ecosystems.

Later, only surveys in oak forest stands were performed. In this study we present the results concerning the diversity of fungi in oak forests, collected within the Rufford project and the later conducted target research in oak forests only. Diversity of the two major taxonomic fungus groups, *Ascomycota* and *Basidiomycota*, in oak forests, as these forests cover most of the country, is presented. Furthermore, the collected material was a great contribution to the creation of the National Collection of Kosovo Fungi.

MATERIAL AND METHODS

Study area. To achieve the objectives of this study, material from oak forests was collected in the period March 2017 – December 2019. The diversity of fungi was recorded at 31 localities belonging to different districts of Kosovo. Six localities were located in the Suharekë District, five in the Kaçanik District, three in the Elez Han District, two in the Districts of Malishevë, Prishtinë, Shtërpcë, Viti and Zveçan, while one locality each was surveyed in the Districts of Ferizaj, Klinë, Dragash, Vushtrri, Lipjan, Rahovec and Mitrovicë. The surveyed localities are shown in the map in Fig. 1 and detailed information on their coordinates, altitude and forest associations is provided in Tab. 1.

Sampling and laboratory methods. At the sampling sites, macroscopic photographs were taken using a Canon EOS 1000D camera, while photos of the selected species below were taken with a Sony alpha A58 camera by Tome Jovanovski. As a rule, we explored an area of $20 \times 20 - 30 \times 30 \text{ m}^2$ during the sampling time and then took a note of the coordinates of the site, using an Iphone 6S. Based on the presence of dominant plant species we determined the forest association.

The collected fungal samples were analysed in fresh or dry state. Key microscopic features such as dimension, shape and ornamentation of spores and other elements important for identification were observed using a light microscope (LW Scientific i4, with a maximum magnification of 1000×) at the Mycological Laboratory, Institute of Biology, Faculty of Natural Sciences and Mathematics in



Fig. 1. Map of the studied localities in the Republic of Kosovo.

Skopje. For visualisation or specific chemical reactions, appropriate reagents were used (Melzer’s reagent, KOH, cotton blue, Congo red, sulphovanillin, etc.). For taxonomic identification of the collected fungi the following literature containing identification keys was used: Jülich (1984), Watling et Gregory (1987, 1989, 1993), Candusso et Lanzoni (1990), Alessio (1991), Breitenbach et Kränzlin (1991, 1995), Hansen et Knudsen (1992), Antonín et Noordeloos (1993), Fernández (1997), Krieglsteiner (2000, 2003), Noordeloos et al. (2001, 2005), Galli (2001, 2007), Horak (2005), Knudsen et Vesterholt (2012). To determine the most

Tab. 1. Characteristics of sampling sites and number of taxa identified at each locality.

Abbreviations: *Q.f-c* = *Quercetum frainetto-cerris*, *Q-Carp.o* = *Quercu-Carpinetum orientalis*, *Q-pine* = oak forest intermixed with planted pine, *O-Q.p* = *Orno-Quercetum petraeae*.

Location of sites in districts. 1: Ferizaj, 2–4 and 8–9: Kaçanik, 5–7: Elez Han, 10: Klinë, 11: Dragash, 12–13: Malishevë, 14: Vushtrri, 15: Lipjan, 16–17: Prishtinë, 18: Rahovec, 19–20: Shtërpcë, 21–26: Suharekë, 27–28: Viti, 29–30: Zveçan, 31: Mitrovicë.

No.	Locality	Number of taxa	Latitude (°N)	Longitude (°E)	Altitude (m a.s.l.)	Forest association
1	Burnik	28	42.313	21.084	900	<i>Q.f-c</i>
2	Gërlica	19	42.282	21.165	800	<i>Q.f-c</i>
3	Semajë	27	42.280	21.150	850	<i>Q.f-c</i>
4	Duraj	7	42.285	21.133	880	<i>Q.f-c</i>
5	Dimcë	19	42.153	21.306	500	<i>Q-Carp.o</i>
6	Gorancë and Gilloboçicë	58	42.153	21.200	900	<i>Q.f-c</i>
7	Krivenik and Gorancë	23	42.123	21.260	700	<i>Q.f-c</i>
8	Stagovë	9	42.283	21.251	650	<i>Q.f-c</i>
9	Lirishtë	8	42.216	21.283	700	<i>Alnetum, Q-Carp.o</i>
10	Grabanicë	10	42.583	20.538	380	<i>Q. pubescens</i> forest
11	Rapçë	6	42.081	20.583	1040	<i>O-Q.p</i>
12	Shkozë	37	42.429	20.712	660	<i>Q-Carp.o</i>
13	Balincë	10	42.567	20.784	740	<i>Q.f-c</i>
14	Çiçavicë	6	42.754	20.918	550	<i>Q-Carp.o</i>
15	Mirenë	9	42.552	20.973	710	<i>Q.f-c</i>
16	Matiqan	8	42.674	21.204	690	<i>Q.f-c</i>
17	Prishtinë	9	42.634	21.217	700	<i>Q.f-c</i>
18	Xërxe	7	42.361	20.545	350	<i>Q-Carp.o</i>
19	Shtërpcë	18	42.239	21.029	900	<i>Q.f-c</i>
20	Brezovicë	8	42.219	21.009	920	<i>Q-Carp.o</i>
21	Peqan	22	42.365	20.801	374	<i>Q-Carp.o</i>
22	Semetisht	21	42.401	20.792	419	<i>Q-Carp.o</i>
23	Breshancë	12	42.407	20.779	472	<i>Q-Carp.o</i>
24	Reshtan	8	42.364	20.808	420	<i>Q-Carp.o</i>
25	Sopijë	8	42.331	20.831	420	<i>Q-Carp.o</i>
26	Biraq	38	42.384	20.871	650	<i>Q-pine</i>
27	Smirë and Drenushë	13	42.252	21.341	750	<i>Q.f-c</i>
28	Shushtë	15	42.281	21.356	570	<i>Q.f-c</i>
29	Zhazhë	7	42.928	20.860	820	<i>Q.f-c</i>
30	Kelmend	5	42.935	20.877	620	<i>Q.f-c</i>
31	Boletin	6	42.913	20.877	840	<i>Q.f-c</i>

appropriate names of taxa, the nomenclatural database Index Fungorum (online) was followed. The species are listed in alphabetical order. Currently, specimens are being kept in the first author's private herbarium, Ramshaj Qendrim Private Collection (RQPC). Establishment of a herbarium is planned at the Department of Biology, University of Prishtina, and this private collection would be an essential part of this herbarium.

RESULTS

A total of 220 taxa of fungi (219 species and one forma) distributed over oak forests in Kosovo were identified; 14 are affiliated to the *Ascomycota* division and 206 to *Basidiomycota*. All fungal species identified in this study are listed below with basic information on their localities and ecology; detailed collection data are given in the Electronic supplement. In total 166 fungal species are reported for the first time in Kosovo, since some of the species were previously known from the territory of Kosovo, as reported by Tortić et Sylejmani (1982) and Veselaj (2000).

Within the division *Basidiomycota*, the species are classified in 56 families, while the division *Ascomycota* comprises nine families, each of them represented by one or two species, with the exception of the *Hypocreaceae* family with three species. Families with the highest numbers of species are: *Russulaceae* (34), *Boletaceae* (18), *Polyporaceae* (12), *Amanitaceae* (11), *Tricholomataceae* (9), *Agaricaceae* (8) and *Phanerochaetaceae* (8). Most of the fungi recorded are from the mountain ranges Karadaku, Sharri, Gërmia Park and Koritnik, while the Districts of Suharekë, Elez Han, Kaçanik and Malishevë have the highest number of species identified. In Tab. 1 the number of taxa recorded at each locality is given, as well as the forest association surveyed.

LIST OF SPECIES

For each species, the list presents the recorded localities assigned to particular districts, including a brief indication of the ecology. A full list of species with complete collection data including altitude, characteristics of forest stand, habitat or substrate, date of collection, collectors' names and voucher number of specimen in the personal collection of the first author (optional, if the specimen is documented with a voucher), is provided in the Electronic supplement.

Abbreviations: *C.* = *Carpinus*, *Co* = *C. orientalis*, *C-Q* = hornbeam-oak mixed forest, *Q.* = *Quercus*, *Qc* = *Q. cerris*, *Qf* = *Q. frainetto*, *Qpub* = *Q. pubescens*, *Qf-c* = *Quercetum frainetto-cerris*, *Q-Co* = *Quercus-Carpinetum orientalis*, *Q-pine* = mixed forest of oak and planted pine.

Ascomycota

- Bertia moriformis** (Tode) De Not. (*Bertiaceae*). – Kaçanik: Semajë. – Qc: dry branches.
- Diatrype stigma** (Hoffm.) Fr. (*Diatrypaceae*). – Viti (Karadak Mountains): Shushtë. Kaçanik: Lirishtë. Suharekë: Semetisht; Breshancë. Klinë: Grabanicë. Malishevë: Shkozë. – Qf, Qpub, Q. sp.: fallen and dry branches.
- Erysiphe alphetoides** (Griffon et Maubl.) U. Braun et S. Takam. (*Erysiphaceae*). – Kaçanik: Gërlica. – Qc: leaves.
- Helvella atra** J. König (*Helvellaceae*). – Viti (Karadak Mountains): between Smirë and Drenushë. – Qf forest: leaf litter.
- Hypomyces chrysospermus** Tul. et C. Tul. (*Hypocreaceae*). – Kaçanik: Semajë. Klinë: Grabanicë. – *Boletus* sp.: fruitbodies.
- Hypomyces hyalinus** (Schwein.) Tul. et C. Tul. (*Hypocreaceae*). – Elez Han: between Gorancë and Gllloboçicë. – *Amanita vaginata*: fruitbody.
- Hypoxylon fuscum** (Pers.) Fr. (*Hypoxyloaceae*). – Suharekë: Peqan; Semetisht. – Qpub: fallen branches.
- Otidea alutacea** (Pers.) Masee (*Pyronemataceae*). – Malishevë: Shkozë. – *Carpinus* forest: soil surface and decaying wood.
- Paragalactinia succosa** (Berk.) Van Vooren (*Pezizaceae*). – Viti (Karadak Mountains): between Smirë and Drenushë. – Qf forest: leaf litter.
- Peroneutypa scoparia** (Schwein.) Carmarán et A.I. Romero (*Diatrypaceae*). – Suharekë: Peqan. – Qpub: bark.
- Peziza arvernensis** Roze et Boud. (*Pezizaceae*). – Elez Han: between Gorancë and Gllloboçicë. – Qf-c: soil surface and decaying wood.
- Porpolis farinosa** (Pers.) Fr. (*Marthamycetaceae*). – Kaçanik: Gërlica. – Qc: fallen branch.
- Sarcoscypha coccinea** (Gray) Boud. (*Sarcoscyphaceae*). – Lipjan: Mirenë. – Qf: fallen branch.
- Trichoderma citrinum** (Pers.) Jaklitsch, W. Gams et Voglmayr (*Hypocreaceae*). – Kaçanik: Semajë. – Qc: bark.

Basidiomycota

- Agaricus campestris** L. (*Agaricaceae*). – Ferizaj: Burrnik. Suharekë: Peqan. – Qf-c: leaf litter; meadow: soil with roots of *Trifolium* sp.
- Agaricus sylvicola** (Vittad.) Peck (*Agaricaceae*). – Ferizaj: Burrnik. Suharekë: Biraq. – Qf-c: wood debris; Q-pine: soil surface and oak wood.
- Agrocybe praecox** (Pers.) Fayod (*Strophariaceae*). – Suharekë: Sopiçë. – Meadow: leaf litter under *Quercus*.
- Amanita caesarea** (Scop.) Pers. (*Amanitaceae*). – Kaçanik: Duraj. Elez Han: between Gorancë and Gllloboçicë. Ferizaj: Burrnik. – Qf-c.
- Amanita crocea** (Quél.) Singer (*Amanitaceae*). – Kaçanik: Gërlica. – Qf-c.
- Amanita dryophila** Consiglio et Contu (*Amanitaceae*). – Elez Han: between Krivenik and Gorancë. – Qf-c.
- Amanita eliae** Quél. (*Amanitaceae*). – Elez Han: between Gorancë and Gllloboçicë. – Qf-c.
- Amanita franchetii** (Boud.) Fayod (*Amanitaceae*). – Elez Han: between Gorancë and Gllloboçicë; between Krivenik and Gorancë. – Qf-c.
- Amanita lividopallescens** (Gillet) Bigeard et H. Guill. (*Amanitaceae*). – Elez Han: between Gorancë and Gllloboçicë. Zveçan: Kelmend. – Qf-c, oak forest.
- Amanita pantherina** (DC.) Krombh. (*Amanitaceae*). – Kaçanik: Duraj; Gërlica. Sharr Mountains: Shtërpçë. Ferizaj: Burrnik. Elez Han: between Gorancë and Gllloboçicë. Suharekë: Reshtan. – Qf-c.; meadow, under Qpub.

- Amanita rubescens*** Pers. (*Amanitaceae*). – Kaçanik: Semajë; Gërlica. Sharr Mountains: Shtërpçë. Elez Han: between Gorancë and Gllloboçicë. Ferizaj: Burrnik. – *Qf-c*.
- Amanita subnudipes*** (Romagn.) Tulloss (*Amanitaceae*). – Elez Han: between Gorancë and Gllloboçicë. – *Qf-c*.
- Amanita vaginata*** (Bull.) Lam. (*Amanitaceae*). – Kaçanik: Duraj; Semajë. Elez Han: between Gorancë and Gllloboçicë. Ferizaj: Burrnik. Zveçan: Kelmend. – *Qf-c*, oak forest.
- Apioperdon pyriforme*** (Schaeff.) Vizzini (*Lycoperdaceae*). – Malishevë: Balincë. – Oak forest: leaf litter.
- Armillaria mellea*** (Vahl) P. Kumm. (*Physalacriaceae*). – Suharekë: Biraq. Malishevë: Shkozë; Balincë. – *Pinus* sp., *C/Q*. (in mixed forest): decaying wood; *Q*. sp.: stumps and dead roots.
- Astraeus hygrometricus*** (Pers.) Morgan (*Diplocystidiaceae*). – Suharekë: Biraq. – *Q*-pine.
- Athelia epiphylla*** Pers. (*Atheliaceae*). – Elez Han: Dimcë. – *Qpub*: decaying branch.
- Auricularia auricula-judae*** (Bull.) Quél. (*Auriculariaceae*). – Rahovec: Xërxe. Ferizaj: Burrnik. Suharekë: Breshancë. Malishevë: Shkozë. Suharekë: Biraq. – *Qc*, *Qf*: trunks; *Qf*, *Co*: dry branches; *Qpub*: dry wood.
- Auricularia mesenterica*** (Dicks.) Pers. (*Auriculariaceae*). – Kaçanik: Semajë. Elez Han: Dimcë. Ferizaj: Burrnik. Suharekë: Peqan. – *Qc*: dry branch; *Co*: stump; *Qf*: trunk; *Qpub*: dry stem.
- Auriscalpium vulgare*** Gray (*Auriscalpiaceae*). – Suharekë: Biraq. – *Pinus nigra*: cone.
- Baeospora myosura*** (Fr.) Singer (*Marasmiaceae*). – Suharekë: Biraq. – *Pinus nigra*: cone.
- Basidiodendron caesiocinereum*** (Höhn. et Litsch.) Luck-Allen (*Auriculariales*). – Elez Han: Dimcë. Sharr Mountains: Brezovicë. – *Qpub*, *Co*: fallen branches.
- Bjerkandera adusta*** (Willd.) P. Karst. (*Phanerochaetaceae*). – Kaçanik: Duraj. Rahovec: Xërxe. Sharr Mountains: Brezovicë. Suharekë: Sopijë. – *Qf*, *Qc*, *Q*. sp.: stumps; *Qpub*: dry branch.
- Boletus aereus*** Bull. (*Boletaceae*). – Elez Han: between Gorancë and Gllloboçicë. – *Qf-c*.
- Boletus reticulatus*** Schaeff. (*Boletaceae*). – Viti (Karadak Mountains): between Smirë and Drenushë. Kaçanik: Semajë; Gërlica. Elez Han: between Gorancë and Gllloboçicë. Ferizaj: Burrnik. – *Qf-c*, *Qf* and *Qc* forests.
- Bovista plumbea*** Pers. (*Lycoperdaceae*). – Elez Han: between Gorancë and Gllloboçicë. Ferizaj: Burrnik. Suharekë: Peqan. – *Qf-c*: leaf litter and wood debris; *Qpub* forest: bare soil.
- Butyriboletus fechtneri*** (Velen.) D. Arora et J.L. Frank (*Boletaceae*). – Malishevë: Shkozë. – *C-Q*.
- Butyriboletus fuscroseus*** (Smotl.) Vizzini et Gelardi (*Boletaceae*). – Kaçanik: Semajë; Gërlica. Ferizaj: Burrnik. Zveçan: Zhazhë. – *Qc* forest, *Qf-c*.
- Byssomerulius corium*** (Pers.) Parmasto (*Irpicaceae*). – Viti (Karadak Mountains): Shushtë. Kaçanik: Lirishtë. Suharekë: Semetisht. Malishevë: Balincë. – *Qf*, *Qpub*, *Qc*: dry and fallen branches.
- Cantharellus cibarius*** Fr. (*Hydnaceae*). – Kaçanik: Duraj; Stagovë; Semajë; Gërlica. Viti (Karadak Mountains): between Smirë and Drenushë. Elez Han: between Gorancë and Gllloboçicë. Sharr Mountains: Brezovicë. Zveçan: Kelmend. Klinë: Grabanicë. – *Qf-c*, *Qf*, *Qc* and *Qpub* forests, *Q-Co*.
- Cerioporus varius*** (Pers.) Zmitr. et Kovalenko (*Polyporaceae*). – Dragash: Rapçë. Malishevë: Shkozë. Zveçan: Zhazhë. – *Q. petraea*, *Q*. sp., *Qc*: dry branches.
- Cerrena unicolor*** (Bull.) Murrill (*Cerrenaceae*). – Kaçanik: Semajë. – *Qc*: dry wood.
- Chroogomphus rutilus*** (Schaeff.) O.K. Mill. (*Gomphidiaceae*). – Suharekë: Biraq. – *Q*-pine.
- Clitocybe costata*** Kühner et Romagn. (*Tricholomataceae*). – Suharekë: Biraq. – *Q*-pine: soil surface and decaying wood of *Pinus*.
- Clitocybe dealbata*** (Sowerby) P. Kumm. (*Tricholomataceae*). – Suharekë: Peqan. – *Qpub* forest margin: bare soil.
- Clitocybe nebularis*** (Batsch) P. Kumm. (*Tricholomataceae*). – Suharekë: Biraq. – *Q*-pine: soil surface and decaying wood of *Pinus*.
- Clitocybe phyllophila*** (Pers.) P. Kumm. (*Tricholomataceae*). – Malishevë: Balincë. – Oak forest: wood debris.
- Clitopilus prunulus*** (Scop.) P. Kumm. (*Entolomataceae*). – Malishevë: Shkozë. – *C-Q*: leaf litter.
- Coniophora puteana*** (Schumach.) P. Karst. (*Coniophoraceae*). – Rahovec: Xërxe. – *Qc*: stump.

- Coprinopsis atramentaria*** (Bull.) Redhead, Vilgalys et Moncalvo (*Psathyrellaceae*). – Kaçanik: Semajë. – *Qc* forest: leaf litter.
- Coprinopsis picacea*** (Bull.) Redhead, Vilgalys et Moncalvo (*Psathyrellaceae*). – Suharekë: Peqan. – *Qpub* forest: leaf litter.
- Coprinus comatus*** (O.F. Müll) Pers. (*Agaricaceae*). – Kaçanik: Semajë. Prishtinë: Matiqan. – *Qc* forest: leaf litter; *Qf-c*: bare soil.
- Corticium roseum*** Pers. (*Corticaceae*). – Suharekë: Semetisht. – *Qpub*: fallen branch.
- Cortinarius calochrous*** (Pers.) Gray (*Cortinariaceae*). – Suharekë: Biraq. – *Q-pine*.
- Cortinarius melanotus*** Kalchbr. (*Cortinariaceae*). – Elez Han: between Krivenik and Gorancë. – *Qf-c*.
- Cortinarius trivialis*** J.E. Lange (*Cortinariaceae*). – Malishevë: Shkozë. Suharekë: Biraq. – *C-Q*, *Q-pine*.
- Craterellus cornucopioides*** (L.) Pers. (*Hydnaceae*). – Suharekë: Peqan. – *Qpub* forest.
- Cyanoboletus pulverulentus*** (Opat.) Gelardi, Vizzini et Simonini (*Boletaceae*). – Elez Han: between Gorancë and Glloboçicë. – *Qf-c*.
- Cyathus olla*** (Batsch) Pers. (*Agaricaceae*). – Suharekë: Biraq; Peqan. – *Q-pine*: wood debris; meadow: soil with roots of *Trifolium* sp.
- Cystodermella cinnabarina*** (Alb. et Schwein.) Harmaja (*Agaricaceae*). – Suharekë: Biraq. – *Q-pine*: wood debris.
- Cystodermella granulosa*** (Batsch) Harmaja (*Agaricaceae*). – Suharekë: Biraq. – *Q-pine*: wood debris.
- Dacrymyces variisporus*** McNabb (*Dacrymycetaceae*). – Suharekë: Biraq. – *Q*. sp.: fallen branch.
- Daedalea quercina*** (L.) Pers. (*Fomitopsidaceae*). – Elez Han: between Gorancë and Glloboçicë. – *Qf*: stump.
- Dichomitus campestris*** (Qué.) Domański et Orlicz (*Polyporaceae*). – Viti (Karadak Mountains): between Smirë and Drenushë. Kaçanik: Semajë. Suharekë: Semetisht. Prishtinë: Matiqan. – *Q*. sp., *Qpub*, *Qf*: dry and fallen branches; *Qc*: trunk.
- Efibula tuberculata*** (P. Karst.) Zmitr. et Spirin (*Phanerochaetaceae*). – Suharekë: Breshancë; Semetisht. – *Qpub*: fallen branches.
- Entoloma sinuatum*** (Bull.) P. Kumm. (*Entolomataceae*). – Kaçanik: Gërlica. Elez Han: between Gorancë and Glloboçicë. Zveçan: Zhazhë. – *Qf-c*.
- Etheiroidon fimbriatum*** (Pers.) Banker (*Steccherinaceae*). – Suharekë: Semetisht. – *Qpub*: fallen branch.
- Exidia glandulosa*** (Bull.) Fr. (*Auriculariaceae*). – Elez Han: between Gorancë and Glloboçicë. Lipjan: Mirenë. Viti (Karadak Mountains): Shushtë. Suharekë: Breshancë. – *Qc*, *Qf*, *Qpub*: fallen branches.
- Fistulina hepatica*** (Schaeff.) With. (*Fistulinaceae*). – Suharekë: Biraq. – *Qf*: stump.
- Fomes fomentarius*** (L.) Fr. (*Polyporaceae*). – Rahovec: Xërxe. Sharr Mountains: Shtërpçë. Prishtinë: Gërmia Park. Suharekë: Sopijë. – *Qc*: trunks; *Co*: fallen tree.
- Fomitopsis pinicola*** (Sw.) P. Karst. (*Fomitopsidaceae*). – Suharekë: Sopijë. Prishtinë: Matiqan. – *Qpub*: trunk of living tree; *Qf-c*: dry wood.
- Galerina marginata*** (Batsch) Kühner (*Hymenogastraceae*). – Suharekë: Biraq. – *Pinus*: dead wood.
- Ganoderma lucidum*** (Curtis) P. Karst. (*Polyporaceae*). – Suharekë: Biraq. – *Pinus*: dead wood.
- Geastrum triplex*** Jungb. (*Geastraceae*). – Suharekë: Peqan. – *Qpub* forest: soil covered with leaves.
- Gymnopilus penetrans*** (Fr.) Murrill (*Hymenogastraceae*). – Suharekë: Biraq. – *Pinus*: dead and decaying wood.
- Gymnopilus sapineus*** (Fr.) Murrill (*Hymenogastraceae*). – Suharekë: Biraq. – *Pinus*: dead and decaying wood.
- Gymnopus dryophilus*** Murrill (*Omphalotaceae*). – Elez Han: between Krivenik and Gorancë; between Gorancë and Glloboçicë. Mitrovicë: Boletin. – *Qf-c*: soil surface and decaying wood, wood debris, leaf litter.
- Gymnopus fusipes*** (Bull.) Gray (*Omphalotaceae*). – Elez Han: between Krivenik and Gorancë. Suharekë: Biraq. – *Qf*: stem; *Q-pine*: decaying wood.

- Hapalopilus nidulans** (Fr.) P. Karst. (*Phanerochaetaceae*). – Elez Han: between Krivenik and Gorancë; between Gorancë and Glloboçicë. Prishtinë: Gërmia Park. Malishevë: Shkozë. Zveçan: Zhazhë. – *Qf*, *Qc*, *Q* sp., *Co*: stems and fallen branches.
- Hemileccinum impolitum** (Fr.) Šutara (*Boletaceae*). – Elez Han: between Gorancë and Glloboçicë. – *Qf-c*.
- Hortiboletus bubalinus** (Oolbekk. et Duin) L. Albert et Dima (*Boletaceae*). – Elez Han: between Gorancë and Glloboçicë. – *Qf-c*.
- Hygrophorus cossus** (Sowerby) Fr. (*Hygrophoraceae*). – Suharekë: Peqan. – *Qpub* forest.
- Hygrophorus lindtneri** M.M. Moser (*Hygrophoraceae*). – Suharekë: Biraq. Malishevë: Shkozë. – *Q*-pine, *C-Q*.
- Hymenochaete cinnamomea** (Pers.) Bres. (*Hymenochaetaceae*). – Viti (Karadak Mountains): Shushtë. Elez Han: between Gorancë and Glloboçicë; Dimcë. Suharekë: Semetisht; Sopjër. Prishtinë: Matiçan. Zveçan: Zhazhë. – *Qc*, *Qf*: dry and fallen branches; *Qpub*: fallen branches, wood and bark; *Co*: fallen branch.
- Hymenochaete fuliginosa** (Fr.) Lév. (*Hymenochaetaceae*). – Suharekë: Semetisht. – *Qpub*: fallen branch and dead wood.
- Hymenochaete rubiginosa** (Dicks.) Lév. (*Hymenochaetaceae*). – Ferizaj: Burtnik. Suharekë: Semetisht. – *Qf*: dry branch; *Qpub*: fallen branch and dead wood.
- Hymenopellis radicata** (Relhan) R.H. Petersen (*Physalacriaceae*). – Viti (Karadak Mountains): between Smirë and Drenushë. Malishevë: Shkozë. Elez Han: between Krivenik and Gorancë. Vushtëri: Çiçavicë. – *Qf*: stem, fallen branch and wood debris; *C-Q*, oak forest: woody substrate buried in the soil.
- Hyphoderma nemorale** K.H. Larss. (*Hyphodermataceae*). – Elez Han: between Krivenik and Gorancë. – *Qf*: dead wood and fallen branch.
- Hyphodermella corrugata** (Fr.) J. Erikss. et Ryvarden (*Phanerochaetaceae*). – Elez Han: Dimcë. – *Qpub*: fallen branch.
- Hyphodontia quercina** (Pers.) J. Erikss. (*Schizoporaceae*). – Sharr Mountains: Brezovicë. – *Co*: trunk and fallen branch.
- Hypholoma fasciculare** (Huds.) P. Kumm. (*Strophariaceae*). – Elez Han: between Gorancë and Glloboçicë. – Malishevë: Shkozë; Balincë. – *Qc*: stump; *C-Q*: trunk cut; *Q* sp.: dead wood.
- Hypholoma lateritium** (Schaeff.) P. Kumm. (*Strophariaceae*). – Malishevë: Shkozë; Balincë. Suharekë: Biraq. – *Q* sp.: stem, stump and decaying wood; *Q*-pine: trunk cut.
- Imperator rhodopurpureus** (Smotl.) Assyov et al. (*Boletaceae*). – Elez Han: between Gorancë and Glloboçicë. – *Qf-c*.
- Infundibulicybe geotropia** (Bull.) Harmaja (*Tricholomataceae*). – Suharekë: Biraq. – *Q*-pine: soil surface and decaying wood of *Pinus*.
- Inocybe dulcamara** (Pers.) P. Kumm. (*Inocybaceae*). – Elez Han: between Gorancë and Glloboçicë. – *Qf-c*.
- Inonotus cuticularis** (Bull.) P. Karst. (*Hymenochaetaceae*). – Suharekë: Peqan. – *Qpub*: stem.
- Irpex lacteus** (Fr.) Fr. (*Irpicaceae*). – Viti (Karadak Mountains): Shushtë. Kaçanik: Lirishtë. – *Qf*: fallen branches.
- Ischnoderma benzoinum** (Wahlenb.) P. Karst. (*Ischnodermataceae*). – Suharekë: Peqan. – *Acer pseudoplatanus*: stem.
- Kavinia albovidis** (Morgan) Gilb. et Budington (*Lentariaceae*). – Suharekë: Breshancë. – *Qpub*: fallen branch.
- Kuehneromyces mutabilis** (Schaeff.) Singer et A.H. Sm. (*Strophariaceae*). – Malishevë: Shkozë; Balincë. – *Co*: stem and dry branch; *Qf*: stem.
- Laccaria laccata** (Scop.) Cooke (*Hydnangiaceae*). – Zveçan: Kelmend. – Oak forest.
- Lactarius azonites** (Bull.) Fr. (*Russulaceae*). – Elez Han: between Gorancë and Glloboçicë; between Krivenik and Gorancë. – *Qf-c*.
- Lactarius chrysorrheus** Fr. (*Russulaceae*). – Zveçan: Kelmend. – Oak forest.

- Lactarius deliciosus* (L.) Gray (*Russulaceae*). – Suharekë: Biraq. – Q-pine.
- Lactarius pyrogalus* (Bull.) Fr. (*Russulaceae*). – Malishevë: Shkozë. – C-Q with *Corylus*.
- Lactarius serifluus* (DC.) Fr. (*Russulaceae*). – Kaçanik: Semajë. – Qc forest.
- Lactarius zonarius* (Bull.) Fr. (*Russulaceae*). – Kaçanik: Gërlica. Elez Han: between Gorancë and Glloboçicë. Suharekë: Biraq. Malishevë: Shkozë. – Qf-c, Q-pine, C-Q.
- Lactifluus bertillonii* (Neuhoff ex Z. Schaef.) Verbeken (*Russulaceae*). – Kaçanik: Gërlica. – Qf-c.
- Lactifluus glaucescens* (Crossl.) Verbeken (*Russulaceae*). – Malishevë: Shkozë. – C-Q.
- Lactifluus piperatus* (L.) Pers. (*Russulaceae*). – Kaçanik: Semajë; Gërlica. Sharr Mountains: Shtërpçë. Vushtërri: Çiçavicë. Klinë: Grabanicë. Suharekë: Reshtan. Malishevë: Shkozë. – Qc forest, Qf-c, oak forest, Qpub forest, C-O; meadow, under Qpub.
- Lactifluus vellereus* (Fr.) Kuntze (*Russulaceae*). – Viti (Karadak Mountains): between Smirë and Drenushë. – Qf forest.
- Leccinellum pseudoscabrum* (Kallenb.) Mikšik (*Boletaceae*). – Viti (Karadak Mountains): between Smirë and Drenushë. Vushtërri: Çiçavicë. – Qf forest, oak forest.
- Lentinus arcularius* (Batsch) Zmitr. (*Polyporaceae*). – Mitrovicë: Boletin. Malishevë: Shkozë. – Qf, Qc: fallen branches; Q. sp.: trunks and dry branch.
- Lenzites betulina* (L.) Fr. (*Polyporaceae*). – Suharekë: Semetisht; Sopijë. Malishevë: Shkozë. Prishtinë: Matiçan. Mitrovicë: Boletin. – Qpub: dry trunk and fallen branch; Q. sp.: dry branch and wood; Co, Qf, Qc: dry and fallen branches.
- Lepiota clypeolaria* (Bull.) P. Kumm. (*Agaricaceae*). – Suharekë: Biraq. – Q-pine: soil surface and wood debris of *Pinus*.
- Lycoperdon molle* Pers. (*Lycoperdaceae*). – Suharekë: Biraq. Malishevë: Shkozë. – Q-pine, C-Q: leaf litter.
- Lycoperdon perlatum* Pers. (*Lycoperdaceae*). – Suharekë: Biraq. Malishevë: Balincë. – Q-pine, oak forest: leaf litter.
- Lyomyces crustosus* (Pers.) P. Karst. (*Hyphodermataceae*). – Sharr Mountains: Brezovicë. Kaçanik: Lirishtë. Suharekë: Breshancë; Semetisht. – Co: trunk and fallen branch; Qf: fallen branch; Qpub: fallen branches and bark.
- Macrolepiota procera* (Scop.) Singer (*Agaricaceae*). – Malishevë: Shkozë. – C-Q: bare soil.
- Marasmiellus confluens* (Pers.) J.S. Oliveira (*Omphalotaceae*). – Dragash: Rapçë. Malishevë: Balincë. – Orno-*Quercetum petraeae*: decaying wood and fallen branch of dead tree; Q. sp.: dry branch.
- Marasmius bulliardii* Quél. (*Marasmiaceae*). – Kaçanik: Gërlica. – Qf-c: leaves and decaying wood.
- Marasmius oreades* (Bolton) Fr. (*Marasmiaceae*). – Elez Han: between Gorancë and Glloboçicë. Suharekë: Peqan. – Qf-c: leaf litter; Qpub forest margin: bare soil.
- Mycena abramsii* (Murrill) Murrill (*Mycenaceae*). – Suharekë: Peqan. – Qpub forest: wood debris and decaying wood.
- Mycena galericulata* (Scop.) Gray (*Mycenaceae*). – Suharekë: Biraq. – Q-pine: decaying wood and soil surface.
- Mycena pelianthina* (Fr.) Quél. (*Mycenaceae*). – Suharekë: Peqan. – Qpub forest: soil surface and decaying wood.
- Mycena polygramma* (Bull.) Gray (*Mycenaceae*). – Malishevë: Shkozë. – C-Q: soil surface and decaying wood.
- Mycena pura* (Pers.) P. Kumm. (*Mycenaceae*). – Malishevë: Shkozë. – C-Q: soil surface and wood debris.
- Mycoacia aurea* (Fr.) J. Erikss. et Ryvarden (*Meruliaceae*). – Suharekë: Breshancë. – Qpub: fallen branch.
- Neoboletus erythropus* (Pers.) C. Hahn (*Boletaceae*). – Viti (Karadak Mountains): between Smirë and Drenushë. Ferizaj: Burtnik. Malishevë: Shkozë. – Qf forest, Qf-c, C-Q.

- Neoboletus xanthopus*** (Klofac et A. Urb.) Klofac et A. Urb. (*Boletaceae*). – Elez Han: between Krivenik and Gorancë. – *Qf-c*.
- Omphalotus olearius*** (DC.) Singer (*Omphalotaceae*). – Elez Han: between Gorancë and Glloboçicë. Klinë: Grabanicë. Prishtinë: Gërmia Park. – *Qf*: decaying wood; *Qpub*: stem; *Qc*: trunk cut.
- Panus neostrigosus*** Drechsler-Santos et Wartchow (*Polyporaceae*). – Kaçanik: Semajë. Elez Han: between Gorancë and Glloboçicë. – *Qc*: trunks; *Qf*: wood and stump.
- Paralepista flaccida*** (Sowerby) Vizzini (*Tricholomataceae*). – Suharekë: Biraq. – *Q*-pine: soil surface and wood debris of *Pinus*.
- Peniophora incarnata*** (Pers.) P. Karst. (*Peniophoraceae*). – Elez Han: Dimcë. – *Qpub*: fallen branch and wood.
- Peniophora limitata*** (Chaillat ex Fr.) Cooke (*Peniophoraceae*). – Malishevë: Shkozë. – *Co*: dry branch.
- Peniophora lycii*** (Pers.) Höhn. et Litsch. (*Peniophoraceae*). – Elez Han: Dimcë. – *Crataegus monogyna*: fallen branch and wood.
- Peniophora quercina*** (Pers.) Cooke (*Peniophoraceae*). – Viti (Karadak Mountains): Shushtë. Sharr Mountains: Brezovicë. Elez Han: between Gorancë and Glloboçicë. Ferizaj: Burtnik. Klinë: Grabanicë. Suharekë: Sopijë. Prishtinë: Matiqan. Dragash: Rapçë. Mitrovicë: Boletin. – *Qf*: stump, dry and fallen branches; *Co*: fallen branches; *Qpub*: stem and dry branch; *Qc*: dry branch; *Orno-Quercetum petraeae*: fallen branch.
- Peniophorella pubera*** (Fr.) P. Karst. (*Peniophoraceae*). – Sharr Mountains: Shtërpçë. – *Qc*: fallen branch and stem.
- Phaeoclavulina abietina*** (Pers.) Giachini (*Gomphaceae*). – Suharekë: Biraq. – *Pinus*: decaying wood and branch of dead tree.
- Phanerochaete sordida*** (P. Karst.) J. Erikss. et Ryvarden (*Phanerochaetaceae*). – Elez Han: between Gorancë and Glloboçicë. Prishtinë: Gërmia Park. – *Qf*: fallen branch and stump; *Qc*: trunk cut.
- Phanerochaete velutina*** (DC.) P. Karst. (*Phanerochaetaceae*). – Suharekë: Semetisht. – *Qpub*: fallen branch and dry trunk.
- Phlebia lilascens*** (Bourdot) J. Erikss. et Hjortstam (*Meruliaceae*). – Suharekë: Breshancë. – *Qpub*: fallen branch.
- Phyllotopsis nidulans*** (Pers.) Singer (*Tricholomataceae*). – Malishevë: Shkozë. – *Co*: stem.
- Pleurotus ostreatus*** (Jacq.) P. Kumm. (*Pleurotaceae*). – Suharekë: Peqan. – *Qpub*: stem of living tree.
- Pleurotus pulmonarius*** (Fr.) Quél. (*Pleurotaceae*). – Malishevë: Shkozë. – *Q*. sp.: dry branch and stem; *Qf*: dry branch.
- Pluteus cervinus*** (Schaeff.) P. Kumm. (*Pluteaceae*). – Kaçanik: Semajë. Elez Han: between Krivenik and Gorancë. Malishevë: Shkozë. – *Qc*, *Qf*: trunks; *Q*. sp.: trunks and dry branch.
- Porostereum spadiceum*** (Pers.) Hjortstam et Ryvarden (*Phanerochaetaceae*). – Viti (Karadak Mountains): Shushtë. Kaçanik: Gërlica. – *Qf*, *Qc*: fallen branches.
- Psathyrella piluliformis*** (Bull.) P.D. Orton (*Psathyrellaceae*). – Suharekë: Biraq. – *Q*-pine: decaying wood and branch of dead tree.
- Pseudoclitocybe expallens*** (Pers.) M.M. Moser (*Pseudoclitocybaceae*). – Suharekë: Peqan. – *Qpub* forest: leaf litter and decaying wood.
- Pseudoinonotus dryadeus*** (Pers.) T. Wagner et M. Fisch. (*Hymenochaetaceae*). – Prishtinë: Gërmia Park. – *Qc*: stem.
- Pseudosperma rimosum*** (Bull.) Matheny et Esteve-Rav. (*Inocybaceae*). – Kaçanik: Gërlica. – *Qf-c*.
- Pycnoporus cinnabarinus*** (Jacq.) P. Karst. (*Polyporaceae*). – Viti (Karadak Mountains): Shushtë. Elez Han: between Gorancë and Glloboçicë; Dimcë. Malishevë: Shkozë; Balincë. Dragash: Rapçë. Mitrovicë: Boletin. – *Qf*: stem, dry and fallen branches; *Q*. sp.: dry and fallen branches; *Qc*: dry branch; *Orno-Quercetum petraeae*: dry branch of dead tree.
- Radulomyces confluens*** (Fr.) M.P. Christ. (*Pterulaceae*). – Elez Han: Dimcë. Lipjan: Mirenë. Suharekë: Breshancë. – *Q*. sp.: fallen branch and wood; *Qf*, *Qpub*: fallen branches.

- Radulomyces molaris** (Chaillet ex Fr.) M.P. Christ. (*Pterulaceae*). – Viti (Karadak Mountains): Shushtë. Suharekë: Semetisht. Lipjan: Mirenë. Malishevë: Shkozë. – *Qf*: dry and fallen branches; *Qpub*: dry trunk and fallen branch; *Q*. sp.: dry branch.
- Ramaria flava** (Schaeff.) Quéf. (*Gomphaceae*). – Elez Han: between Gorancë and Glloboçicë. Malishevë: Shkozë. – *Qf-c*, *C-O*.
- Resupinatus applicatus** (Batsch) Gray (*Pleurotaceae*). – Suharekë: Peqan. – *Qpub*: fallen branch.
- Rhodocollybia butyracea** (Bull.) Lennox (*Omphalotaceae*). – Viti (Karadak Mountains): Shushtë. Suharekë: Peqan; Biraq. – *Qf* forest: leaf litter; *Qpub* forest, *Q*-pine: soil surface and decaying wood.
- Rubroboletus rhodoxanthus** (Krombh.) Kuan Zhao et Zhu L. Yang (*Boletaceae*). – Elez Han: between Gorancë and Glloboçicë. – *Qf-c*.
- Russula adusta** (Pers) Fr. (*Russulaceae*). – Kaçanik: Semajë. Elez Han: between Gorancë and Glloboçicë. – *Qc* forest, *Qf-c*.
- Russula anthracina** Romagn. (*Russulaceae*). – Elez Han: between Gorancë and Glloboçicë. – *Qf-c*.
- Russula aurea** Pers. (*Russulaceae*). – Elez Han: between Gorancë and Glloboçicë. – *Qf-c*.
- Russula burlinghamiae** Singer (*Russulaceae*). – Kaçanik: Semajë. – *Qc* forest.
- Russula chloroides** (Krombh.) Bres. (*Russulaceae*). – Sharr Mountains: Shtërpçë. – *Qf-c*.
- Russula cyanoxantha** (Schaeff.) Fr. f. ***cyanoxantha*** (*Russulaceae*). – Kaçanik: Stagovë. Elez Han: between Gorancë and Glloboçicë. Ferizaj: Burrnik. Vushtëri: Çiçavicë. Zveçan: Zhazhë. Sharr Mountains: Shtërpçë. – *Qf-c*, oak forest.
- Russula cyanoxantha** f. ***peltereaui*** Singer (*Russulaceae*). – Sharr Mountains: Shtërpçë. Elez Han: between Krivenik and Gorancë. Suharekë: Reshtan. Klinë: Grabanicë. – *Qf-c*, *Qpub* forest; meadow, under *Qpub*.
- Russula delica** Fr. (*Russulaceae*). – Ferizaj: Burrnik. Vushtëri: Çiçavicë. – *Qf-c*, oak forest.
- Russula foetens** Pers. (*Russulaceae*). – Kaçanik: Gërlica. – *Qf-c*.
- Russula fragilis** Fr. (*Russulaceae*). – Kaçanik: Stagovë. – *Qf-c*.
- Russula grata** Britzelm. (*Russulaceae*). – Sharr Mountains: Shtërpçë. Elez Han: between Gorancë and Glloboçicë. Malishevë: Shkozë. – *Qf-c*, *C-Q*.
- Russula grisea** Fr. (*Russulaceae*). – Elez Han: between Gorancë and Glloboçicë. – *Qf-c*.
- Russula heterophylla** (Fr.) Fr. (*Russulaceae*). – Kaçanik: Stagovë; Semajë. Sharr Mountains: Shtërpçë. Elez Han: between Gorancë and Glloboçicë. Ferizaj: Burrnik. Suharekë: Reshtan. – *Qf-c*, *Qc* forest, *Qpub* forest.
- Russula maculata** Quéf. (*Russulaceae*). – Kaçanik: Semajë. Sharr Mountains: Shtërpçë. Elez Han: between Gorancë and Glloboçicë. – *Qc* forest, *Qf-c*.
- Russula ochroleuca** Fr. (*Russulaceae*). – Ferizaj: Burrnik. – *Qf-c*.
- Russula olivacea** Pers. (*Russulaceae*). – Kaçanik: Semajë; Gërlica. Elez Han: between Gorancë and Glloboçicë. – *Qc* forest, *Qf-c*.
- Russula rhodella** E.-J. Gilbert (*Russulaceae*). – Viti (Karadak Mountains): between Smirë and Drenushë. – *Qf* forest.
- Russula risigallina** (Batsch) Sacc. (*Russulaceae*). – Elez Han: between Gorancë and Glloboçicë. Viti (Karadak Mountains): between Smirë and Drenushë. – *Qf-c*, *Qf* forest.
- Russula rosea** Pers. (*Russulaceae*). – Malishevë: Shkozë. – *C-Q*.
- Russula silvestris** (Singer) Reumaux (*Russulaceae*). – Malishevë: Shkozë. Viti (Karadak Mountains): between Smirë and Drenushë. Kaçanik: Semajë. Sharr Mountains: Shtërpçë. Elez Han: between Gorancë and Glloboçicë. – *C-Q*, *Qf* forest, *Qc* forest, *Qf-c*.
- Russula squalida** Peck (*Russulaceae*). – Elez Han: between Gorancë and Glloboçicë. – *Qf-c*.
- Russula subfoetens** W.G. Sm. (*Russulaceae*). – Viti (Karadak Mountains): between Smirë and Drenushë. Elez Han: between Gorancë and Glloboçicë. – *Qf* forest, *Qf-c*.
- Russula vesca** Fr. (*Russulaceae*). – Elez Han: between Gorancë and Glloboçicë; between Krivenik and Gorancë. Ferizaj: Burrnik. – *Qf-c*.

- Russula virescens*** (Schaeff.) Fr. (*Russulaceae*). – Kačanik: Gërlica. Elez Han: between Gorancë and Glloboçicë. Ferizaj: Burtnik. Vushtëri: Çiçavicë. – *Qc* forest, *Qf-c*, oak forest.
- Russula zvarae*** Velen. (*Russulaceae*). – Elez Han: between Krivenik and Gorancë. – *Qf-c*.
- Schizophyllum commune*** Fr. (*Schizophyllumaceae*). – Viti (Karadak Mountains): Shushtë. Sharr Mountains: Shtërpçë. Kačanik: Stagovë. Dragash: Rapçë. – *Qf*: dry branches; *Qc*: fallen branch; *Orno-Quercetum petraeae*: trunk of dead tree.
- Schizopora paradoxa*** (Schrad.) Donk (*Schizoporaaceae*). – Rahovec: Xërxe. Sharr Mountains: Shtërpçë; Brezovicë. Kačanik: Stagovë; Semajë; Lirishtë. Viti (Karadak Mountains): Shushtë. Lipjan: Mirenë. Elez Han: Dimçë. Suharekë: Semetisht; Reshtan; Sopijë. Malishevë: Shkozë. Prishtinë: Matiçan. – *Qc*: fallen trunk, dry and fallen branches; *Qf*: dry and fallen branches; *Qf-c*: trunk of dead tree; *Qpub*: dead stem, dry branch; *Q*. sp.: trunk and fallen branch; *Co*: fallen tree, dry branch.
- Scytinostroma alutum*** Lanq. (*Peniophoraceae*). – Elez Han: between Krivenik and Gorancë. – *Qf*: fallen branch.
- Steccherinum fimbriatum*** (Pers.) J. Erikss. (*Steccherinaceae*). – Suharekë: Semetisht. – *Qpub*: dry trunk and fallen branch.
- Steccherinum ochraceum*** (Pers. ex J.F. Gmel.) Gray (*Steccherinaceae*). – Suharekë: Semetisht; Breshancë. – *Qpub*: dry trunk and fallen branches.
- Stereum hirsutum*** (Willd.) Pers. (*Stereaceae*). – Sharr Mountains: Brezovicë; Shtërpçë. Kačanik: Duraj; Stagovë; Lirishtë; Semajë. Rahovec: Xërxe. Viti (Karadak Mountains): Shushtë. Lipjan: Mirenë. Elez Han: Dimçë; between Krivenik and Gorancë. Ferizaj: Burtnik. Suharekë: Breshancë; Semetisht; Reshtan. Malishevë: Shkozë. Dragash: Rapçë. Mitrovicë: Boletin. – *Co*, *Qc*: trunks, dry and fallen branches; *Qf*: dry and fallen branches, stump; *Qpub*, *Q*. sp.: dry and fallen branches; *Orno-Quercetum petraeae*: fallen branch of dead tree.
- Stereum rugosum*** Pers. (*Stereaceae*). – Ferizaj: Burtnik. – *Qf*: stump.
- Stereum subtomentosum*** Pouzar (*Stereaceae*). – Prishtinë: Gërmia Park. – *Qc*: stem and dry branch.
- Suillellus luridus*** (Schaeff.) Murrill (*Boletaceae*). – Elez Han: between Gorancë and Glloboçicë; between Krivenik and Gorancë. – *Qf-c*.
- Suillellus mendax*** (Simonini et Vizzini) Vizzini, Simonini et Gelardi (*Boletaceae*). – Elez Han: between Gorancë and Glloboçicë; between Krivenik and Gorancë. – *Qf-c*.
- Suillellus queletii*** (Schulzer) Vizzini, Simonini et Gelardi (*Boletaceae*). – Ferizaj: Burtnik. Kačanik: Stagovë. Klinë: Grabanicë. Suharekë: Reshtan. – *Qf-c*, *Qpub* forest.
- Suillus granulatus*** (L.) Roussel (*Suillaceae*). – Sharr Mountains: Shtërpçë. Suharekë: Biraq. – *Qf-c* (*Pinus* trees in vicinity), *Q*-pine.
- Suillus tridentinus*** (Bres.) Singer (*Suillaceae*). – Suharekë: Biraq. – *Q*-pine, under *Larix* tree.
- Suillus variegatus*** (Sw.) Richon et Roze (*Boletaceae*). – Elez Han: between Gorancë and Glloboçicë. Ferizaj: Burtnik. – *Qf-c* (*Pinus* trees in vicinity).
- Terana coerulea*** (Lam.) Kuntze (*Phanerochaetaceae*). – Elez Han: Dimçë. – *Co*: fallen branch and wood.
- Tomentella crinalis*** (Fr.) M.J. Larsen (*Thelephoraceae*). – Suharekë: Semetisht. – *Qpub*: fallen branch.
- Tomentella ferruginea*** (Pers.) Pat. (*Thelephoraceae*). – Elez Han: between Gorancë and Glloboçicë. – *Qc*: decaying wood.
- Trametes hirsuta*** (Wulfen) Lloyd (*Polyporaceae*). – Viti (Karadak Mountains): Shushtë. Kačanik: Lirishtë; Stagovë. Lipjan: Mirenë. Elez Han: Dimçë; between Krivenik and Gorancë. Ferizaj: Burtnik. Prishtinë: Matiçan. – *Qf*: dry and fallen branches; *Qc*: dry branches, stump; *Q*. sp., *Co*: stumps.
- Trametes ochracea*** (Pers.) Gilb. et Ryvar den (*Polyporaceae*). – Elez Han: Dimçë. – *Co*: fallen tree.
- Trametes versicolor*** (L.) Lloyd (*Polyporaceae*). – Kačanik: Semajë. Viti (Karadak Mountains): Shushtë. Lipjan: Mirenë. Elez Han: Dimçë; between Krivenik and Gorancë. Sharr Mountains:

- Shtërpçë. Ferizaj: Burtnik. Suharekë: Peqan; Breshancë; Reshtan. Klinë: Grabanicë. Prishtinë: Gërmia Park. – *Qf*: dry branch, stump; *Qc*: stem, dry and fallen branches; *Qpub*: dry and fallen branches, wood debris; *Q*. sp.: trunk, stump; *Co*: stump; *Corylus avellana*: dry branches.
- Trichaptum bifurme*** (Fr.) Ryvarden (*Polyporaceae*). – Prishtinë: Gërmia Park. – *Qc*: dry branch.
- Tricholoma sejunctum*** (Sowerby) Quéf. (*Tricholomataceae*). – Elez Han: between Krivenik and Gorancë. – *Qf-c*.
- Tricholoma terreum*** (Schaeff.) P. Kumm. (*Tricholomataceae*). – Suharekë: Biraq. – *Q*-pine.
- Typhula contorta*** (Holmsk.) Olariaga (*Typhulaceae*). – Suharekë: Peqan. – *Alnus glutinosa*: branch.
- Vuilleminia comedens*** (Nees) Maire (*Vuilleminiaceae*). – Rahovec: Xërxe. Kaçanik: Lirishtë; Gërlica. Lipjan: Mirenë. Elez Han: Dimçë; between Krivenik and Gorancë. Ferizaj: Burtnik. Suharekë: Semetisht. – *Qc*: branches of living tree, dry branch and stump; *Qf*: branches of living tree, fallen branch; *Q*. sp.: dry branch of living tree; *Qpub*: fallen branch.
- Vuilleminia coryli*** Boidin, Lanq. et Gilles (*Vuilleminiaceae*). – Elez Han: Dimçë. – *Corylus avellana*: dry branch of living shrub.
- Vuilleminia cystidiata*** Parmasto (*Vuilleminiaceae*). – Elez Han: Dimçë. – *Crataegus monogyna*: dry branch of living shrub.
- Xerocomellus chrysenderon*** (Bull.) Šutara (*Boletaceae*). – Klinë: Grabanicë. Viti (Karadak Mountains): between Smirë and Drenushë. Elez Han: between Gorancë and Glloboçicë; between Krivenik and Gorancë. – *Qpub* forest, *Qf* forest, *Qf-c*.
- Xerocomus subtomentosus*** (L.) Quéf. (*Boletaceae*). – Elez Han: between Gorancë and Glloboçicë. – *Qf-c*.
- Xylodon asper*** (Fr.) Hjortstam et Ryvarden (*Schizoporaceae*). – Suharekë: Semetisht. – *Qpub*: fallen branch.
- Xylodon raduloides*** Riebesehl et Langer (*Schizoporaceae*). – Kaçanik: Semajë; Duraj. Ferizaj: Burtnik. Sharr Mountains: Shtërpçë. – *Qc*: stump, dry and fallen branches; *Qf*: dry branch.
- Xylodon sambuci*** (Pers.) Ţura, Zmitr., Wasser et Spirin (*Schizoporaceae*). – Elez Han: Dimçë. – On *Vitis silvestrii*.
- Zhuliangomyces illinitus*** (Fr.) Redhead (*Amanitaceae*). – Suharekë: Biraq. – *Q*-pine: among wood debris of *Pinus*.

DISCUSSION

According to available data, 10 species recorded in this survey are rare or infrequent. Each of these is discussed below.

Rare boletoid species *Butyriboletus fuscroseus* and *Imperator rhodopurpureus*, which form ectomycorrhiza with oaks, beech and sweet chestnut, are categorised as threatened in most European countries (Jordan et al. 2017). *Butyriboletus fuscroseus* (Fig. 2) grows on rich, fertile soils at warm localities. It is mycorrhizal with *Fagus* or *Quercus*, and is reported from many European countries, but is rare outside the Mediterranean region, where it is recorded more frequently (Šutara et al. 2014). This species is associated with oaks (*Quercus* spp.) in Bulgaria and is encountered on the southern coast of the Black Sea, in the Western Forebalkan, the Zepole region and the western Sredna Gora Mts., often on limestone in xerothermic or mesophytic broadleaf forests (Assyov 2012). In the Czech Republic it is rare and red-listed since its occurrence had declined



Fig. 2. *Butyriboletus fuscroseus*, Gërlica (Kačanik District), *Quercetum frainetto-cerris*, in leaf litter, 1 Jun 2018. Photo T. Jovanovski.



Fig. 3. *Imperator rhodopurpureus*, between Gorancë and Gllboçicë (Elez Han District), *Quercetum frainetto-cerris*, in leaf litter, 5 Jun 2018. Photo T. Jovanovski.



Fig. 4. *Amanita franchetii*, between Gorancë and Glloboçicë (Elez Han District), *Quercetum frainetto-cerris*, in leaf litter, 5 Jun 2018. Photo T. Jovanovski.

significantly during the 20th century (Holec et Beran 2006, as *Boletus pseudo-regius*). Today it is legally protected in this country (Antonín et Bieberová 1995). In Kosovo it is found at four localities, near the villages of Zhazhë, Semajë and Gërlica, and also in Burrnik. *Imperator rhodopurpureus* (Fig. 3) is mycorrhizal with *Fagus* and *Quercus*, rarely with *Tilia*, and grows on rich calcareous or clayey soils at warm, exposed localities. It is reported as very rare in temperate and hemiboreal regions, where it has only been found in the southeastern part of Denmark and on Gotland in Sweden (Knudsen et Vesterholt 2012), while it was found at only one locality in Kosovo, between the villages of Gorancë and Glloboçicë.

Amanita franchetii and *A. lividopallescens* are rare species, known mainly from the Mediterranean area. These species are rarely found in northern Europe and are very rare in temperate and hemiboreal regions (Knudsen et Vesterholt 2012). *Amanita franchetii* (Fig. 4) grows on calcareous soils under deciduous trees and is reported very rarely from temperate regions in Denmark and Sweden. In Serbia, *A. franchetii* has been reported to be a scarce to very rare species, encountered at localities such as the urban zones of Kragujevac (City Park and Šumarice Park) and its periphery (15 km radius), as well as on the mountains of Rudnik and Gledič (Lukić 2008). In Bulgaria it is included in the Red List of Fungi as a vulnerable species (Gyosheva et al. 2006) and it is assessed as endangered in

the Red List of fungi of the Czech Republic (Holec et Beran 2006). *Amanita franchetii* is found at two localities in Kosovo, between the villages of Gorancë and Glloboçicë, and between Krivenik and Gorancë, in mixed *Quercus frainetto* and *Quercus cerris* forests. In the United Kingdom, *Amanita lividopallescens* is assessed on the Red Data List of Threatened British Fungi as a near-threatened species (Evans et al. 2006), while in Serbia it is categorised as a very rare to extremely rare species (Lukić 2008). *Amanita lividopallescens* is found at two localities in Kosovo, near the village of Kelmend and between Gorancë and Glloboçicë. *Amanita dryophila* is a species which grows in small groups in open sunny oak forests exclusively in the Mediterranean area and is not known in northern Europe at all. In Kosovo it was found in two forest stands, between the villages of Krivenik and Gorancë.

Two rare species also found during this research are *Lactarius azonites* and *Russula zvarae*. *Lactarius azonites* (Fig. 5) is categorised as a threatened species on red lists of countries in the Mediterranean area and as vulnerable in northern countries. This species is included in the Macedonian Red List of fungi in the category near-threatened (Karadelev et Rusevska 2013) and is also included as a rare species in the List of threatened macrofungi in Greece (Diamandis 2000). In Kosovo it was found at two localities, between Gorancë and Glloboçicë, and between Krivenik and Gorancë. *Russula zvarae* (Fig. 6) grows on soil in deciduous forests in mycorrhiza with *Quercus* and *Fagus*. It is assessed as endangered in the red lists of the Mediterranean area and in northern countries (Courtecuisse 2009). In the Red List of Romanian macrofungi species, *R. zvarae* is categorised as a near-threatened species (Tănase et Pop 2005), while in the Czech Republic it falls in the category of Data Deficient in the Red List of fungi (Holec et Beran 2006). Also, in Kosovo it is a very rare species found only between Krivenik and Gorancë.

Two rare corticioid species, *Hyphoderma nemorale* and *Kavinia albobiridis*, have a boreal distribution and are more abundant in Nordic countries (Eriksson et Ryvarden 1976), while these species are very rare in the Mediterranean area (Bernicchia et Gojrn 2010, Karadelev et Rusevska 2013). Both are found at only one locality in Kosovo, *H. nemorale* between Krivenik and Gorancë, *K. albobiridis* near Breshancë.

Another species which is included in the red lists of many countries, categorised as near-threatened, vulnerable or endangered, is *Suillus tridentinus*, which is mycorrhizal with *Larix* and very rarely associated with *Pseudotsuga* in plantations, gardens and parks, on sandy, humus-rich or fertile soil, occurring often in large numbers of basidiomata. It is included in the Red List of Romanian macrofungi as an endangered species according to the IUCN criteria; it has the same status in the Red List of fungi of the Czech Republic. In Kosovo it was found



Fig. 5. *Lactarius azonites*, between Krivenik and Gorancë (Elez Han District), *Quercetum frainetto-cerris*, in leaf litter, 5 Jun 2018. Photo T. Jovanovski.



Fig. 6. *Russula zvaraе*, between Krivenik and Gorancë (Elez Han District), *Quercetum frainetto-cerris*, in leaf litter, 5 Jun 2018. Photo T. Jovanovski.

at one locality, at Biraq, in mixed forest of oak and pine and isolated trees of *Larix*, in mycorrhizal relationship with *Larix*.

Six of the species recorded, *Amanita caesarea*, *Boletus reticulatus*, *Cantharellus cibarius*, *Craterelleus cornucoipiooides*, *Marasmius oreades* and *Suillus variegatus*, are economically important.

ACKNOWLEDGEMENTS

The research was partly funded by the Rufford Foundation, as part of the project Fungi of Kosovo: Establishing a Fungi Checklist and Preliminary Red List, and Proposing Important Fungal Areas during the period 2017–2018. Special thanks are due to all the study participants, who contributed immensely to an expansion of the data set on the mycobiota of Kosovo, for field assistance (in alphabetical order: Pajtim Bytyqi, Fitim Kastrati, Gerhard Kost, Branko Micevski, Toni Mitrovski, Emri Murati, Ejup Qela and Destan Sopa). We especially appreciate the significant contribution to our fieldwork by Tome Jovanovski. We are thankful to Valbon Bytyqi for compiling the map of the surveyed localities.

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