

LEOTIOMYCETES CHECKLIST OF MT FRUŠKA GORA WITH NEW RECORDS FOR SERBIAN MYCOBIOTA

DRAGIŠA SAVIĆ¹, MAJA KARAMAN²

¹ National Park Fruška Gora, Zmajev trg 1, 21208 Sremska Kamenica, Republic of Serbia, e-mail: dragita@gmail.com

² University of Novi Sad, Faculty of Sciences, Department of Biology and Ecology, Dositeja Obradovića Square 2, 21000 Novi Sad, Republic of Serbia

In the period from 2012 to 2016 diversity of fungi from the class Leotiomyces (Ascomycota) was investigated on the Mt Fruška Gora Mountain (Serbia). In total we recorded 164 species of which 131 represent the first records for Serbia. The paper includes a list of all the collected leotiomycetous fungi, except order Erysiphales, on Mt Fruška Gora, with data of localities, collection dates, host plants, as well as data from the literature concerning all species that have so far been reported from Serbia. The whole number of recorded species from the class Leotiomyces in Serbia is 342, including the species from the order Erysiphales (104).

Key words: Ascomycota, Leotiomyces, Serbia

INTRODUCTION

Fruška Gora Mountain is located between 45° 0' and 45° 15' N and between 16° 37' and 18° 01' E. It extends between the Danube and Sava rivers (Miljković 1975). This mountain, located in the south of the Pan-

nonian Plain, has a length of about 80 km, and a maximum width of 15 km, with the highest peak, Crveni Čot, at 539 m. Hydrographic network of Mt Fruška Gora is very rather and relatively evenly distributed. Surface water is represented with a network of streams, ponds and artificial lakes. Fruška Gora is located at the border of the temperate continental and subcontinental climate region, and due to the changes in climatic characteristics along altitudinal gradients and the influence of forest cover, the climate here has subcontinental characteristics (Stevanović and Stevanović 1995). According to the biogeographical classification of the territory of Serbia, Fruška Gora belongs to the Central European region and within it to the Central European Balkan-subregion of the Illyrian or Pannonian province (Stevanović 1995). Fruška Gora is a forest area, but from the former 130,000 ha of land under forests, only 23,000 ha remain today, mainly because of anthropogenic factors and excessive exploitation in the past. At present, the former forest areas are replaced mostly by meadows, fields, vineyards and orchards. Forest communities are of mixed or pure composition. Uniform forests are made of oak (*Quercus petraea*), beech (*Fagus sylvatica*) and sometimes linden (*Tilia tomentosa*) or hornbeam (*Carpinus betulus*), while the structure of mixed forests consists mostly of linden and beech, and rarely hornbeam and oak. Pure beech and pure hornbeam forests are rare while meadow-steppes are situated mainly on the periphery of the mountain (Janković & Mišić 1980).

Serbia is mycologically a poorly explored area and most of the data is mainly related to species of the phylum Basidiomycota. The first data of the fungi of the phylum Ascomycota in Serbia was given by Schulzer *et al.* (1866). In his work about the plants of Slavonia (today in Republic of Croatia), data on nearly 1,000 species of fungi is presented, including around 140 species from the area of Fruška Gora (mainly Basidiomycota). In this work, *Coccomyces dentatus* and *Ascodichaena rugosa* recorded on Fruška Gora virtually represent the first published data about fungi of class Leotiomycetes in Serbia. After this work Nikola Ranojević published his data in two extensive articles in 1910 and 1914. Among more than 600 species that have been recorded in Serbia, most of them belong to phylum Ascomycota, and among them 30 species are members of the class Leotiomycetes. Until the end of the XX century, after his work, there were only three published papers on this group of fungi: Čolić (1967) reported 9 species for the area of the mountain Tara (*Chlorociboria aeruginosa*, *Phaeohelotium fagineum*, *Mitrula paludosa*, *Cudonia circinans*, *Lirula macrospora*, *Lirula nervisequa*, *Rhytisma acerinum*, *R. salicinum* and *R. umbonatum*). Gajić (1989) reported only 8 species for the Mountain Golija (*Cenangium ferruginosum*, *Gremmenia infestans*, *Cyclaneusma minus*, *Cyclaneusma niveum*, *Lirula macrospora*, *Lirula nervisequa*, *Lophodermium pinastri* i *Lophodermium seditiosum*) and Čoja (1989) only one. Since

the beginning of the XXI century, more and more data of ascomycetous fungi of Serbia was obtained, thanks to the research of mushrooms in the forest ecosystems of Serbia (e.g. Karadžić 2003, 2006, 2008, Karadžić & Milijašević 2003, 2005, 2008, Karadžić & Stanivuković 2010). Since the most complete work regarding the ascomycetous fungi is present in the monograph about the order Erysiphales in Serbia (Ranković 2002) which includes data about 104 species from this order, in this paper these data are not included.

The published data on fungi of class Leotiomycetes on Fruška Gora are extremely scarce. After first record obtained by Schulzer *et al.* (1866), Ranković (1955) cites *Rhytisma acerinum*, Karadžić (2011) reports *Encoelia glaberrima*, *Pezicula carpinea* and *Rutstroemia bolaris*, and Marković (2012) *Phacidium lauri* and *Botryotinia fuckeliana*. In the paper of Karaman *et al.* (2012) preliminary data based on studies ascomycetous fungi of Fruška Gora Mt. in the last 20 years is presented. Of the approximately 100 species that are reported in this paper, 20 belong to the class Leotiomycetes (*Arachnopeziza aurata*, *Chlorociboria aeruginascens*, *Drepanopeziza punctiformis*, etc.).

In the kingdom of fungi, the class Leotiomycetes belongs to the phylum Ascomycota and subphylum Pezizomycotina. In previous works (e.g. Dennis 1978, Kimbrough 1970, Pfister & Kimbrough 2001) classification within this class was mostly based on morphological characters while molecular phylogenetic analysis of this group of fungi, that is comparatively young, brings some new facts in classification (Gernandt *et al.* 2001, Wang *et al.* 2006a). According to Wang *et al.* (2006b), the class Leotiomycetes was divided into 5 orders (Cyttriales, Erysiphales, Helotiales, Rhytismatales, Thelebolales). Subsequently, the orders Leotiales, Phacidiales and Thelocarpaceles were added (Crous *et al.* 2014, Jaklitsch *et al.* 2016). The largest order in the class Leotiomycetes (and in general Ascomycota) is the order Helotiales with about 2,500 species described so far (Lumbsch & Huhndorf 2010).

The Leotiomycetes is a highly diverse group of Pezizomycotina and includes nonlichenized fungi producing a generally small apothecia with an exposed hymenium and an inoperculate, unitunicate ascus that has an apical perforation pore for releasing ascospores (Wang *et al.* 2006b).

In many cases the ecological and biological features of these fungi represent the important taxonomic characters. In some orders, such as the Erysiphales, Cyttriales, Thelebolales and Rhytismatales, distinct ecological characters and nutritional modes are almost unique for each group. Members of the Helotiales thrive in various ecosystems and cover a broad range of niches, thus helotialean fungi have been described as plant pathogens, endophytes, mycorrhizae, ectomycorrhizal parasites, fungal pa-

rasites, terrestrial saprobes, aquatic saprobes, root symbionts and wood-rot fungi (Wang *et al.* 2006a).

MATERIALS AND METHODS

Samples of fungi were collected in the period from 2012 to 2016 on Mt. Fruška Gora (Serbia). Fungi were collected in different habitats, mostly in deciduous forests (localities: Iriški Venac, Novo Hopovo, Paragovo, Popovica, Čerević, Papratski Do, Andrevlje, Rakovac, Stražilovo, Ledinci, Vrdnik, Irig, Jabuka, Kraljeva stolica, Rajkovac, Testera, Osovlje and Zmajevac), on the meadow-steppe (localities: Glavica, Brankovac, Banstol, Bukovac, Erdelj and Grgurevci) and humid places near the streams and the Danube river (localities: Beočin, Sremska Kamenica, Sviloš, Sremski Karlovci, Susek, Banoštor and Petrovaradin).

Microscopic features of most samples were examined in the fresh, living state in tap water (Baral 1992) using a transmission light microscope (Olympus BX 51) with bright-field technique. Freehand sections were made using a razor blade. The iodine reaction was tested with Lugol's solution with a concentration of iodine around 0.5–1% (Baral 1987). In the case of herbarium specimens, hymenial fragments were rehydrated with water.

Identification of the species was performed using specific identification keys (e.g. Dennis 1978, Ellis & Ellis 1997, Medardi 2012). The collected samples were dried and deposited in the officially unregistered Herbarium of Fruška Gora National Park (listed species designation F.G.). Author citations are given according to Index Fungorum (2016). Taxonomy and nomenclature (families and genera) are given according to Baral *et al.* (2015) and Jaklitsch *et al.* (2016). Taxa within families are listed in alphabetical order. For the species *Leptodontidium trabinellum*, *Monostichella salicis*, *Polydesmia pruinosa* and *Rhynchosporium secalis* affiliation to a certain family is still not determined, therefore they are in the group marked as “*incertae sedis*”. Species of the genera *Durella* and *Strossmayeria*, which until now belonged to the family Helotiaceae (Kirk *et al.* 2008), are temporarily placed in a group named as “*Strossmayeria* lineage” according to Jaklitsch *et al.* (2016).

The following information is provided for each fungal species: scientific name, locality, date, host, herbarium number, collector and a person who identified given collection (leg. & det.). For the reason of transparency, localities which refer to Fruška Gora were separated from the rest of Serbia. Only findings from Fruška Gora are enumerated in the list of species. Species which represent the first records for Serbia are marked

with an asterisk. Species found in the anamorph state (asexual reproductive stage) are indicated as “(anamorph)”, and species, for which a sexual reproductive stage (teleomorph) is unknown, e.g. *Botrytis galanthina*, have the notification “(Anamorphic *Botryotinia*)” after the name.

RESULTS AND DISCUSSION

Based on our research results obtained in this study for the Fruška Gora Mountain and previous literature data for the whole region of Serbia (Schulzer *et al.* 1866, Ranojević 1910, 1914, Ranković 1955, 2002, Čolić 1967, Gajić 1989, Čoja 1989, Szabados 1998, Karadžić 2003, Karadžić *et al.* 2002, 2004, Milijašević 2003, Karadžić & Milijašević 2003, 2005, 2008, Milijašević & Karadžić 2004, Bulaić *et al.* 2006, Keča 2006, Marković 2006, Marković & Karadžić 2006, Miletić & Stević 2006, Ivančević 2007, Karadžić & Milanović 2008, Halaši *et al.* 2008, Karadžić & Stanivuković 2010, Ivančević & Davidović 2011, Karaman *et al.* 2012, Marković 2012, Golubović-Čurguz *et al.* 2013 and Hrustić *et al.* 2015) the total number of known fungal species from the class Leotiomycetes is 342 species up to date. About one third of them belong to the order Erysiphales (104) and the rest to the orders Helotiales (196), Rhytismatales (30), Phacidiales (9) and Thelebolales (3).

The total number of species of Leotiomycetes on Fruška Gora is 180, and 148 of them represent new records for the studied area, and 131 the first records for Serbia.

Most of the recorded species on Fruška Gora were found in the teleomorphic state, with four species found in both teleomorphic and anamorphic state (*Ascocoryne sarcoides*, *Holwaya mucida*, *Sclerotinia sclerotiorum* and *Dermea prunastri*) and only eight in the anamorphic state (*Ascocoryne solitaria*, *Botryotinia fuckeliana*, *Botrytis galanthina*, *Drepanopeziza punctiformis*, *Drepanopeziza sphaerioides*, *Monilinia fructigena*, *Sclerotinia sclerotiorum* and *Symphyosirinia clematidis*).

According to the type of substrate, most species on Fruška Gora grow as saprotrophs on rotten wood and fallen branches of deciduous trees (78), on rotting leaves of deciduous trees (19), on rotting leaves and cones of conifers (10), on catkins of alder and hazel (2), on cupules and fruits (oak, beech, alder) (21) and on rotten herbaceous plants (39). In addition, one species (*Dumontinia tuberosa*) is a parasite on the plant rhizomes of *Anemone ranunculoides* and one (*Polydesmia pruinosa*) occurs primarily on stromata of pyrenomycetes. Rare substrates for this group of fungi are soil, on which *Leotia lubrica* and *Geoglossum fallax* occur (terricolous) and

dung of mammals, where three coprophilous species was detected (*Thelebolus stercoreus*, *Trichobolus sphaerosporus* and *T. zukalii*)

We have made corrections on two misidentified collections previously published from Mt. F.G. (Karaman *et al.* 2012) on the basis of reexamination of dried material. These are: F.G. 54, found in Beočin on the leaf of white willow and identified as *Marssonina salicina* Tehon that in fact represents *Drepanopeziza sphaerioides* (Pers.) Nannf., and F.G. 87, found at the site of Kraljeva stolica and identified as *Lachnellula subtilissima* (Cooke) Dennis, that in fact represents the immature unknown fungus from division Basidiomycota.

Species List

Class LEOTIOMYCETES O.E. Erikss. & Winka 1997

Ordo: HELOTIALES Nannf. 1932

Fam.: **Arachnopezizaceae** Hosoya, J.G. Han & Baral 2015

1. *Arachnopeziza aurata* Fuckel

Fruška Gora: Iriški Venac, Karaman *et al.* 2012: 43; Andrevlje, 21.10.2013., on *Tilia tomentosa*, dead wood, F.G. 408, leg. & det. D. Savić.

2. *Arachnopeziza aurelia* (Pers.) Fuckel

Fruška Gora: Zmajevac, 30.03.2016., on *Quercus petraea*, cupula, F.G. 405, leg. & det. D. Savić.

Serbia: northeastern part, Karadžić & Milijašević 2005: 73, on *Quercus petraea*.

3.**Arachnoscypa aranea* (De Not.) Boud.

Fruška Gora: Papratski Do, 27.10.2015., on *Quercus petraea*, cupula, F.G. 406, leg. & det. D. Savić.

4.**Eriopezia caesia* (Pers.) Rehm

Fruška Gora: Iriški Venac, 28.02.2012., on *Tilia tomentosa*, dead wood, F.G. 407, leg. & det. D. Savić.

Fam.: **Ascodichaenaceae** D.Hawksw. & Sherwood 1982

5. *Ascodichaena rugosa* Butin

Fruška Gora: Schulzer *et al.* 1866: 40, sub *Radulum fagineum*.

Serbia: Mt Avala, Ranojević 1910: 376, sub *Radulum fagineum*, on *Carpinus betulus* and *Fagus sylvatica*; more locations, Karadžić 2003: 61, on *Fagus sylvatica*; Karadžić & Milijašević 2003: 27, on *F. sylvatica*; northeastern part, Karadžić & Milijašević 2005: 73, on *Quercus petraea*; Karadžić 2012: 3, on *F. sylvatica*.

Fam.: **Calloriaceae** Marchand 18946.**Calloria neglecta* (Lib.) B.Hein

Fruška Gora: Paragovo, 03.04.2013., on *Urtica dioica*, dead stem, F.G. 466, leg. & det. D. Savić.

7.**Duebenia compta* (Sacc.) Nannf. ex B. Hein

Fruška Gora: Glavica, 25.03.2014., on *Lathyrus latifolius*, dead stem, F.G. 334, leg. & det. D. Savić.

Fam.: **Cenangiaceae** Rehm 1888*Cenangium acuum* Cooke & Peck

Serbia: Milijašević & Karadžić 2004: 122, on *Pinus nigra* and *Pinus sylvestris*; Karadžić & Stanivuković 2010: 3, on *P. nigra* and *P. sylvestris*; more locations, Karadžić & Milijašević 2008: 150, on *P. nigra* and *P. sylvestris*.

8.**Cenangium alnicola* Hazsl.

Fruška Gora: Ledinci, 01.11.2016., on *Fagus sylvatica*, branch, F.G. 839, leg. & det. D. Savić.

Cenangium ferruginosum Fr.

Serbia: Karadžić & Stanivuković 2010: 3, on *Pinus nigra* and *Pinus sylvestris*; Mt Golija (Popaljenik), Gajić 1989: 61, on *P. nigra*; more locations, Karadžić & Milijašević 2008: 150, on *P. nigra* and *P. sylvestris*.

9.**Encoelia furfuracea* (Roth) P.Karst.

Fruška Gora: Paragovo, 07.02.2014., on *Carpinus betulus*, branch, F.G. 571, leg. & det. D. Savić; Andrevlje, 26.02.2014., on *Alnus glutinosa*, branch, F.G. 409, leg. & det. D. Savić.

10. *Encoelia glaberrima* (Rehm) Kirschst.

Fruška Gora: Karadžić 2011: 3, on *Carpinus betulus*; Andrevlje, 20.11.2012., on *C. betulus*, branch, F.G. 572, leg. & det. D. Savić; Novo Hopovo, 10.09.2013., on *C. betulus*, branch, F.G. 467, leg. & det. D. Savić.

Serbia: NP Đerdap and Karakuša, Karadžić 2011: 3, on *C. betulus*.

11. *Sclerencoelia fascicularis* (Alb. & Schwein.) Pärtel & Baral

Fruška Gora: Beočin, 29.01.2013., on *Populus alba* and *Fraxinus sp.*, branch, F.G. 263, leg. & det. D. Savić.

Serbia: Sokobanja, Marković 2012: 44, on *Prunus avium*.

12.**Trochila craterium* (DC.) Fr.

Fruška Gora: Brankovac, 22.03.2015., on *Hedera helix*, leaf, F.G. 573, leg. & det. D. Savić.

13.**Trochila laurocerasi* (Desm.) Fr.

Fruška Gora: Iriški Venac, 10.03.2015., on *Prunus laurocerasus*, leaf, F.G. 264, leg. & det. D. Savić.

14.**Velutarina rufo-olivacea* (Alb. & Schwein.) Korf

Fruška Gora: Andrevlje, 28.02.2013., on *Acer pseudoplatanus*, branch, F.G. 193, leg. & det. D. Savić.

Fam.: **Chaetomellaceae** Baral, P.R. Johnst. & Rossman 2015

Chaetomella atra Fuckel (Anamorphic *Zoellneria*)

Serbia: Beograd (Topčider), Ranojević 1910: 386, on *Melilotus albus*.

Fam.: **Chlorociboriaceae** Baral & P.R. Johnst. 2015

15. *Chlorociboria aeruginascens* (Nyl.) Kan. Ex Ram., Korf & L.R. Batra

Fruška Gora: Andrevlje, Karaman *et al.* 2012: 44; Dumbovo, 09.10.2012., on *Quercus sp.*, branch, F.G. 468, leg. & det. D. Savić; Papratski Do, 27.10.2015., on *Tilia tomentosa*, branch, F.G. 335, leg. & det. D. Savić.

Serbia: Mt Stara Planina, Ivančević 2007: 159.

16. *Chlorociboria aeruginosa* (Oeder) Seaver ex C.S. Ramamurthi, Korf & L.R. Batra

Fruška Gora: Testera, 16.04.2015., on *Quercus petraea*, dead wood, F.G. 119, leg. & det. D. Savić.

Serbia: Mt Tara (Crveni Potok), Čolić 1967: 411, sub *Chlorosplenium aeruginosum*.

Fam.: **Cordieritidaceae** Sacc. 1889

17.**Ionomidotis fulvotingens* (Berk. & M.A. Curtis) E.K. Cash

Fruška Gora: Erdelj, 31.03.2015., on *Fraxinus ornus*, dead wood, FG99, leg. & det. D. Savić.

Fam.: **Dermateaceae** Fr. 1849

18.**Dermea cerasi* (Pers.) Fr.

Fruška Gora: Iriški Venac, 16.04.2014., on *Prunus avium*, dead wood, F.G. 469, leg. & det. D. Savić.

19.**Dermea prunastri* (Pers.) Fr.

Fruška Gora: Erdelj, 31.03.2015., on *Prunus spinosa*, branch, F.G. 266, leg. & det. D. Savić.

20. *Pezicula carpinea* (Pers.) Tul. ex Fuckel

Fruška Gora: Karadžić 2011: 4, on *Carpinus betulus*.

21. *Pezicula cinnamomea* (DC.) Sacc.
 Fruška Gora: Stražilovo, 15.10.2015., on *Corylus avellana*, branch,
 F.G. 411, leg. & det. D. Savić.
 Serbia: Karadžić 2006: 51, on *Quercus petraea*; northeastern part,
 Karadžić & Milijašević 2005: 75, on *Q. petraea*.

- 22.**Pezicula ocellata* (Pers.) Seaver
 Fruška Gora: Sviloš, 14.03.2014., on *Salix alba*, branch, F.G.
 194, leg. & det. D. Savić.

Fam.: **Drepanopezizaceae** Bat. & H. Maia 1960

Blumeriella jaapii (Rehm) Arx

Serbia: Mt Tara, Marković 2012: 23, on *Prunus avium*, leaf.

Diplocarpon alpestri (Ces.) Rossman

Serbia: Mt Kopaonik (Srebrnac), Ranojević 1914: 413, sub
Bostrichonema alpestre, on *Polygonum bistorta*, anamorph.

Diplocarpon rosae F.A. Wolf

Serbia: Cannon 1996.

23. *Drepanopeziza punctiformis* Gremmen
 Fruška Gora: Beočin, Karaman *et al.* 2012: 43, sub *Marssonina*
brunnea, on *Populus nigra*, leaf, anamorph.

24. *Drepanopeziza sphaerioides* (Pers.) Nannf.
 Fruška Gora: Beočin, Karaman *et al.* 2012: 43, sub *Marssonina*
salicina, on *Salix alba*, leaf, anamorph.
 Serbia: Marković & Karadžić 2006: 186, sub *Marssonina salici-*
cola, on *Salix sp.*, anamorph; Marković *et al.* 2007: 78, sub *M. sa-*
licicola, on *Salix spp.*, anamorph; Central Danube Region, Marko-
 vić 2006: 72, sub *M. salicicola*, on *Salix sp.*, anamorph.

Leptotrochila campanulae (DC.) Rossman

Serbia: Pirot (Sarlak), Ranojević 1910: 386, sub *Placosphaeria*
campanulae, on *Campanula bononiensis*; Mt Avala, Ranojević
 1914: 405, sub *P. campanulae*, on *C. trachelium*)

Marssonina andurnensis (Ces.) Magnus (Anamorphic *Diplocarpon*)

Serbia: Beograd (Topčider), Ranojević 1910: 394, on *Thymelaea*
passerina.

Marssonina truncatula (Sacc.) Magnus (Anamorphic *Diplocarpon*)

Serbia: Počuta, Ranojević 1910: 394, sub *Marssonina truncatula*,
 on *Acer campestre*, anamorph; Beograd (Topčider), Ranojević
 1914: 412, sub *M. truncatula*, on *Acer negundo*, anamorph.

Pseudopeziza medicaginis (Lib.) Sacc.

Serbia: Vranjska Banja, Ranojević 1910: 353, sub *Pseudopeziza trifolii* f. *medicaginis*, on *Medicago carstiensis*; Avala, Ranojević 1914: 394, sub *P.t.* var. *medicaginis*, on *Medicago lupulina*.

Pseudopeziza trifolii (Biv.) Fuckel

Serbia: Ranojević 1914: 394, on *Medicago sativa*.

Fam.: **Gelatinodiscaceae** S.E. Carp. 1976

25. *Ascocoryne cylichnium* (Tul.) Korf

Fruška Gora: Dumbovo, Karaman *et al.* 2012: 43; Andrevlje, 15.10.2013., on *Fagus sylvatica*, dead wood, F.G. 120, leg. & det. D. Savić.

Serbia: more locations, Karadžić 2003: 61, on *Fagus sylvatica*.

26. *Ascocoryne sarcooides* (Jacq.) J.V. Groves

Fruška Gora: Iriški Venac, Karaman *et al.* 2012: 43; Paragovo, Karaman *et al.* 2012: 43; Stražilovo, 16.10.2015., F.G. 470, leg. & det. D. Savić.

Serbia: more locations, Karadžić 2003: 61, on *F. sylvatica*; Karadžić & Milijašević 2003: 27, on *F. sylvatica*.

27.**Ascocoryne solitaria* (Rehm) Dennis

Fruška Gora: Stražilovo, 16.10.2015., anamorph, F.G. 336, leg. & det. D. Savić.

28.**Ascocotremella faginea* (Peck) Seaver

Fruška Gora: Stražilovo, 06.11.2015., on *Fagus sylvatica*, dead wood, F.G. 412, leg. & det. D. Savić.

Neobulgaria pura (Pers.) Petr.

Serbia: Karadžić & Milijašević 2003: 28, on *Fagus sylvatica*; more locations, Karadžić 2003: 65, on *F. sylvatica*.

29.**Ombrophila violacea* (Hedw.) Fr.

Fruška Gora: Popovica, 22.08.2013., on deciduous tree, dead wood, F.G. 471, leg. & det. D. Savić; Rakovac, 06.06.2012., on *Tilia tomentosa*, dead wood, F.G. 195, leg. & det. D. Savić; Stražilovo, 26.12.2016., on *Fagus sylvatica*, dead wood, F.G. 870, leg. & det. D. Savić.

Fam.: **Godroniaceae** Baral 2015

Gremmeniella abietina (Lagerb.) M. Morelet

Serbia: Karadžić & Stanivuković 2010: 4, on *Pinus nigra* and *Pinus sylvestris*; Kopaonik, Vlasina and Mt Goč, Karadžić & Milanović 2008: 108, on *P. nigra* and *P. sylvestris*; more locations, Karadžić & Milijašević 2008: 150, on *P. nigra* and *P. syl-*

vestris; NP Kopaonik, Karadžić *et al.* 2002: 112, on *P. nigra* and *P. sylvestris*.

Fam.: **Helotiaceae** Rehm 1892

- 30.**Cudoniella clavus* (Alb. & Schwein.) Dennis
Fruška Gora: Paragovo, 24.09.2013., on *Carex silvatica*, leaf, F.G. 337, leg. & det. D. Savić.
- 31.**Cyathicula coronata* (Bull.) Rehm
Fruška Gora: Paragovo, 29.10.2012., on herbaceous plant, dead stem, F.G. 267, leg. & det. D. Savić; Grgurevci, 16.10.2015., on *Clematis vitalba*, dead stem, F.G. 121, leg. & det. D. Savić.
- 32.**Cyathicula culmicola* (Desm.) De Not.
Fruška Gora: Erdelj, 16.05.2014., on *Dactylis glomerata*, dead stem, F.G. 472, leg. & det. D. Savić.
- 33.**Cyathicula cyathoidea* (Bull.) Thüm.
Fruška Gora: Stražilovo, 15.10.2012., on herbaceous stem, F.G. 413, leg. & det. D. Savić; Rajkovac, 20.02.2013., on *Anthriscus sylvestris*, dead stem, F.G. 548, leg. & det. D. Savić; Rakovac, 07.05.2015., on *Sambucus ebulus*, dead stem, F.G. 547, leg. & det. D. Savić.
- 34.**Hymenoscyphus aesculi* (Velen.) Baral & E. Rubio
Fruška Gora: Andrevlje, 09.09.2016., on *Aesculus hippocastanum*, petiole, F.G. 847, leg. & det. D. Savić.
- 35.**Hymenoscyphus albidus* (Gillet) W. Phillips
Fruška Gora: Banoštor, 11.10.2012., on *Fraxinus excelsior*, branch, F.G. 196, leg. & det. D. Savić.
36. *Hymenoscyphus calyculus* (Sowerby) W. Phillips
Fruška Gora: Iriški Venac, Karaman *et al.* 2012: 43; Brankovac, 26.06.2013., on *Fraxinus ornus*, branch, leg. & det. D. Savić.
- 37.**Hymenoscyphus caudatus* (P.Karst.) Dennis
Fruška Gora: Susek, 18.09.2013., on *Fraxinus excelsior*, leaf, F.G. 474, leg. & det. D. Savić.
38. *Hymenoscyphus fructigenus* (Bull.) Fr.
Fruška Gora: Ledinci, Karaman *et al.* 2012: 43; Iriški Venac, 26.10.2012., on *Carpinus betulus*, fruit, F.G. 574, leg. & det. D. Savić; Bukovac, 12.08.2013., on *Quercus petraea*, cupula, F.G. 414, leg. & det. D. Savić; Rakovac, 17.09.2014., on *Fagus sylvatica*, cupula, F.G. 338, leg. & det. D. Savić.
- 39.**Hymenoscyphus humuli* (Lasch) Dennis
Fruška Gora: Popovica, 06.10.2015., on *Humulus lupulus*, dead branch, F.G. 122, leg. & det. D. Savić.

- 40.* *Hymenoscyphus peruni* (Velen.) Svrček
Fruška Gora: Paragovo, 12.12.2016., on *Fagus sylvatica*, dead branch, F.G. 848, leg. & det. D. Savić.
- 41.* *Hymenoscyphus scutula* (Pers.) W. Phillips
Fruška Gora: Sremska Kamenica, 08.10.2012., on herbaceous plant, dead stem, leg. & det. D. Savić; Paragovo, 19.09.2013., on herbaceous plant, dead stem, leg. & det. D. Savić; Grgurevci, 16.10.2015., on *Clematis vitalba*, dead wood, F.G. 576, leg. & det. D. Savić.
- 42.* *Hymenoscyphus serotinus* (Pers.) W. Phillips
Fruška Gora: Papratski Do, 21.11.2012., on *Fagus sylvatica*, branch, F.G. 268, leg. & det. D. Savić; Vrdnik, 13.11.2014., on *F. sylvatica*, branch, F.G. 475, leg. & det. D. Savić.
- 43.* *Hymenoscyphus syringicolor* Svrček
Fruška Gora: Iriški Venac, 13.12.2011., on *Fagus sylvatica*, leaf, F.G. 549, leg. & det. D. Savić.
- 44.* *Malotium paludosum* Velen.
Fruška Gora: Iriški Venac, 28.04.2014., on *Aconitum lycoctonum*, leaf, F.G. 473, leg. & det. D. Savić.
45. *Phaeohelotium fagineum* (Pers.) Hengstm.
Fruška Gora: Paragovo, 25.09.2013., on *Fagus sylvatica*, cupula, leg. & det. D. Savić; Iriški Venac, 03.10.2013., on *F. sylvatica*, cupula, F.G. 577, leg. & det. D. Savić.
Serbia: Karadžić & Milijašević 2003: 28, sub *Hymenoscyphus fagineus*, on *Fagus sylvatica*; more locations, Karadžić 2003: 62, sub *H. fagineus*, on *F. sylvatica* L.; Tara (Crveni Potok), Čolić 1967: 411, sub *Ombrophila faginea*, on *F. sylvatica*.
- 46.* *Phaeohelotium geogenum* (Cooke) Svrček & Matheis
Fruška Gora: Vrdnik, 25.10.2013., on *Quercus petraea*, cupula, F.G. 197, leg. & det. D. Savić.
- 47.* *Phaeohelotium imberbe* (Bull.:Fr.) Svrček
Fruška Gora: Andrevlje, 20.08.2013., on deciduous tree, branch, F.G. 476, leg. & det. D. Savić.
- 48.* *Phaeohelotium immutabile* (Fuckel) Declercq
Fruška Gora: Popovica, 30.10.2016., on *Quercus petraea*, leaf, F.G. 849, leg. & det. D. Savić.
- 49.* *Phaeohelotium monticola* (Berk.) Dennis
Fruška Gora: Stražilovo, 18.08.2014., on *Quercus petraea*, cupula, seed, branch, *Carpinus betulus*, seed, F.G. 339, leg. & det. D. Savić.

Phaeohelotium umbilicatum (Le Gal) Dennis

Serbia: Bojčinska Šuma, Ivančević & Davidović 2011: 25.

50.**Symphyosirinia clematidis* Baral

Fruška Gora: Čerević, 18.03.2014., on *Clematis vitalba*, seed, anamorph, F.G. 269, leg. & det. D. Savić.

Fam.: **Heterosphaeriaceae** Rehm 1888

Heteropatella lacera Fuckel (Anamorphic *Heterosphaeria*)

Serbia: Mt Stara Planina (Midžor), Ranojević 1910: 394, on *Verbascum sp.*, anamorph)

51.**Heterosphaeria patella* (Tode) Grev.

Fruška Gora: Banstol, 09.09.2013., on *Apiaceae*, dead stem, F.G. 123, leg. & det. D. Savić.

Fam.: **Hyaloscyphaceae** Nannf. 1932

52.**Cistella aconiti* (Rehm) Raitv. & Järv

Fruška Gora: Iriški Venac, 28.04.2014., on *Aconitum lycoctonum*, dead stem, F.G. 198, leg. & det. D. Savić; Ledinci, 27.11.2015., on *Urtica dioica*, dead stem, leg. & det. D. Savić; Rakovac, 01.06.2016., on *Arctium lappa*, dead stem, leg. & det. D. Savić.

53. *Cistella acuum* (Alb. & Schwein.) Svrček

Fruška Gora: Iriški Venac, 03.06.2016., on *Picea abies*, leaves, F.G. 850, leg. & det. D. Savić.

Serbia: Karadžić & Stanivuković 2010: 4, sub *Dasyscypha acuum*, on *Pinus sylvestris*; more locations, Karadžić & Milijašević 2008: 150, sub *D. acuum*, on *P. sylvestris*.

54.**Cistella graminicola* (Raitv.) Raitv.

Fruška Gora: Stražilovo, 10.06.2016., on *Carex silvatica*, leaves, F.G. 851, leg. & det. D. Savić.

55.**Cistella grevillei* (Berk.) Raitv.

Fruška Gora: Paragovo, 31.03.2014., on *Equisetum telmateia*, dead stem, F.G. 550, leg. & det. D. Savić; Erdelj 07.05.2014., on *Urtica dioica*, dead stem, F.G. 415, leg. & det. D. Savić.

56.**Fuscolachnum misellum* (Roberge ex Desm.) J.H. Haines

Fruška Gora: Andrevlje, 27.10.2016., on *Rubus hirtus*, leaves, F.G. 852, leg. & det. D. Savić.

57.**Hyaloscypha aureliella* (Nyl.) Huhtinen

Fruška Gora: Iriški Venac, 03.03.2014., on *Pinus nigra*, dead wood, F.G. 270, leg. & det. D. Savić.

- 58.**Hyaloscypha britannica* Huhtinen
Fruška Gora: Paragovo, 04.11.2014., on *Picea abies*, dead wood, F.G. 551, leg. & det. D. Savić.
- 59.**Hyaloscypha fuckelii* Nannf.
Fruška Gora: Testera, 05.09.2014., on *Alnus glutinosa*, dead wood, F.G. 552, leg. & det. D. Savić.
- 60.**Hyaloscypha intacta* Svrček
Fruška Gora: Papratski Do, 27.10.2015., on *Fagus sylvatica*, dead wood, F.G. 340, leg. & det. D. Savić.
- 61.* *Hyaloscypha minuta* (Spooner & Dennis) Baral
Fruška Gora: Erdelj, 29.12.2016., deciduous tree, branch, F.G. 869, leg. & det. D. Savić.
- 62.**Hyaloscypha quercicola* (Velen.) Huntinen
Fruška Gora: Stražilovo, 27.03.2016., on *Quercus petraea*, bark, F.G. 553, leg. & det. D. Savić.
- 63.**Olla millepunctata* (Lib.) Svrček
Fruška Gora: Paragovo, 04.04.2013., on *Rubus silesiacus*, branch, F.G. 341, leg. & det. D. Savić.
- 64.**Psilocistella conincola* (Velen.) Svrček
Fruška Gora: Paragovo, 25.12.2012., on *Pinus nigra*, cone, F.G. 416, leg. & det. D. Savić; Iriški Venac, 09.12.2016., on *Pinus nigra*, cone, F.G. 871, leg. & det. D. Savić.

Fam.: **Lachnaceae** Raitv. 2004

- 65.**Albotricha acutipila* (P.Karst.) Raitv.
Fruška Gora: Paragovo, 28.03.2014., on *Dactylis glomerata*, dead stem, F.G. 124, leg. & det. D. Savić.
- 66.**Brunnipila palearum* (Desm.) Baral
Fruška Gora: Susek, 21.03.2013., on *Alopecurus pratensis*, dead stem, F.G. 554, leg. & det. D. Savić; Ledinci, 04.05.2016., on *Poaceae*, dead stem, F.G. 199, leg. & det. D. Savić.
- 67.**Capitotricha bicolor* (Bull.) Baral
Fruška Gora: Testera, 21.02.2014., on *Quercus sp.*, branch, F.G. 271, leg. & det. D. Savić.
- 68.**Dasyscyphella claviculata* (Velen.) Baral & Svrček
Fruška Gora: Iriški Venac, 07.10.2016., on *Quercus petraea*, leaf, F.G. 853, leg. & det. D. Savić, Zmajevac, 20.10.2016., on *Q. petraea*, leaf, F.G. 854, leg. & det. D. Savić.

69. *Dasyscyphella nivea* (R. Hedw.) Raitv.
Fruška Gora: Paragovo, 21.02.2007., F.G. 478, leg. & det. D. Savić; Andrevlje, 16.10.2013., F.G. 578, leg. & det. D. Savić; Crveni čot, 22.03.2013., F.G. 479, leg. & det. D. Savić.
Serbia: Karadžić 2006: 51, sub *Dasyscyphus niveus*, on *Quercus petraea*; northeastern part, Karadžić & Milijašević 2005: 74, sub *D. niveus*, on *Q. petraea*.
- 70.**Incrucipulum ciliare* (Schrad.) Baral
Fruška Gora: Kraljeva Stolica, 17.10.2016., on *Quercus petraea*, leaf, F.G. 855, leg. & det. D. Savić.
Lachnellula calyciformis (Battarra) Dharne
Serbia: Mt Zlatar, Mt Kopaonik and NP Tara, Karadžić 2008: 85, on *Abies alba*.
- 71.**Lachnellula resinaria* (Cooke & W. Phillips) Rehm
Fruška Gora: Stražilovo, 18.08.2016., on *Picea abies*, decorticated wood, F.G. 856, leg. & det. D. Savić.
Lachnum capitatum (Peck) Svrček
Serbia: northeastern part, Karadžić & Milijašević 2005: 74, sub *Dasyscyphus capitatus*, on *Quercus petraea*.
- 72.**Lachnum caricis* (Desm.) Hohn.
Fruška Gora: Paragovo, 25.02.2013., on *Carex sylvatica*, leaf, F.G. 342, leg. & det. D. Savić.
- 73.**Lachnum controversum* (Cooke.) Rehm
Fruška Gora: Beočin, 14.06.2013., on *Phragmites australis*, dead stem, F.G. 417, leg. & det. D. Savić.
- 74.**Lachnum fasciculare* Velen.
Fruška Gora: Jabuka, 28.11.2012., on deciduous tree, dead wood, F.G. 481, leg. & det. D. Savić.
Lachnum fuscescens (Pers.) P. Karst.
Serbia: Karadžić & Milijašević 2003: 27, sub *Dasyscyphus fuscescens*, on *Fagus sylvatica*; more locations, Karadžić 2003: 62, sub *D. fuscescens*, on *F. sylvatica*.
- 75.**Lachnum impudicum* Baral
Fruška Gora: Testera, 14.03.2014., on deciduous tree, dead wood, F.G. 555, leg. & det. D. Savić.
Lachnum patulum (Pers.) Rehm
Serbia: northeastern part, Karadžić & Milijašević 2005: 74, sub *Dasyscyphus patulus*, on *Quercus petraea*.

- Lachnum pudibundum* (Quél.) J. Schröt.
Serbia: Marković & Karadžić 2006: 184, sub *Dasyscyphus pudibundus*, on *Salix sp.*; Marković *et al.* 2007: 77, sub *D. pudibundus*, on *Salix spp.*; Central Danube Region, Marković 2006: 71, sub *D. pudibundus*, on *Salix sp.*
- 76.**Lachnum pudicellum*. (Quél.) J. Schröt
Fruška Gora: Ledinci, 09.05.2016., on *Poaceae*, dead stem, F.G. 272, leg. & det. D. Savić.
Lachnum pulverulentum (Lib.) P. Karst.
Serbia: more locations, Karadžić & Milijašević 2008: 150, sub *Dasyscyphus pulverulentus*, on *Pinus nigra*.
77. *Lachnum virgineum* (Batsch) P.Karst.
Fruška Gora: Paragovo, Karaman *et al.* 2012: 43; Crveni čot, Karaman *et al.* 2012: 43; Iriški Venac, 21.02.2014., on *Pinus nigra*, cone, F.G. 579, leg. & det. D. Savić.
- 78.**Lasiobelonium nidulum* (J.C. Schmidt. & Kunze) Spooner
Fruška Gora: Petrovaradin, 16.09.2013., on herbaceous plant, dead stems, leg. & det. D. Savić; Iriški Venac, 28.04.2015., on *Polygonatum odoratum*, dead stem, F.G. 125, leg. & det. D. Savić.
- 79.**Lasiobelonium variegatum* (Fuckel) Raitv.
Fruška Gora: Andrevlje, 28.02.2013., on *Tilia tomentosa*, dead wood, leg. & det. D. Savić; Sremska Kamenica, 04.02.2014., on deciduous tree, branch, leg. & det. D. Savić; Papratski Do, 06.11.2015., on *T. tomentosa*, dead wood, F.G. 343, leg. & det. D. Savić; Testera, 10.03.2016., on *Pteridium aquilinum*, leaf, F.G. 872, leg. & det. D. Savić
80. *Neodasyscypha cerina* (Pers.) Spooner
Fruška Gora: Irig, 27.06.2014., on *Rosa canina*, branch, F.G. 580, leg. & det. D. Savić.
Serbia: Mt Avala, Ranojević 1910: 352, sub *Dasyscypha cerina*, on *Fagus sylvatica*.
81. *Proliferodiscus pulveraceus* (Alb. & Schwein.) Baral
Fruška Gora: Andrevlje, 23.01.2013., on *Fagus sylvatica*, wood, F.G. 581, leg. & det. D. Savić; Paragovo, 22.01.2013., on deciduous tree, branch, F.G. 482, leg. & det. D. Savić.
82. *Trichopeziza mollissima* Fuckel
Fruška Gora: Andrevlje, 27.03.2013., on *Apiaceae*, dead stem, F.G. 556, leg. & det. D. Savić; Iriški Venac, 29.04.2014., on *Aconitum lycoctonum*, dead stem, F.G. 418, leg. & det. D. Savić.

83. *Trichopeziza sulphurea* Fuckel
Fruška Gora: Banoštor, 10.10.2012., on *Urtica dioica*, dead stem,
leg. & det. D. Savić., Paragovo, 24.09.2013., on herbaceous plant,
dead stem, F.G. 273, leg. & det. D. Savić.

Fam.: **Mitrulaceae** Rchb. 1828

Mitruła paludosa Fr.

Serbia: Mt Tara (Crveni Potok), Čolić 1967: 411.

Fam.: **Mollisiaceae** Rehm 1891

84. *Mollisia cinerea* (Batsch.) P.Karst.
Fruška Gora: Paragovo, Karaman *et al.* 2012: 43, on deciduous
tree, dead wood); Papratski Do, 16.06.2014.; on *Carpinus betulus*,
dead wood, leg. & det. D. Savić.
Serbia: Kragujevac (Košutnjak) and Beograd (Topčider), Ranojević
1910: 353.
85. *Mollisia fusca* (Pers.) P. Karst
Fruška Gora: Stražilovo, 27.08.2013., on deciduous tree, dead
wood, F.G. 484, leg. & det. D. Savić.
Serbia: Mt Avala, Ranojević 1910: 352, sub *Tapesia fusca*, on
Corylus avellana.
86. *Mollisia ligni* (Desm.) P.Karst.
Fruška Gora: Iriški Venac, 06.05.2014., on *Carpinus betulus*,
dead wood, F.G. 557, leg. & det. D. Savić.
Serbia: Beograd (Topčider), Ranojević 1910: 353, sub *Mollisia*
lignicola, on *Quercus cerris*.
87. *Mollisia lividofusca* (Fr.) Gillet
Fruška Gora: Paragovo, 21.12.2016., on *Pinus nigra*, cone, F.G.
857, leg. & det. D. Savić.
Serbia: Beograd (Košutnjak), Ranojević 1910: 352, sub *Tapesia*
lividofusca, on *Carpinus betulus*.
- 88.**Mollisia luctuosa* Boud.
Fruška Gora: Glavica, 15.03.2016., on *Carex flacca*, leaf, base of
stem, F.G. 483, leg. & det. D. Savić.
- 89.**Mollisia melaleuca* (Fr.) Sacc.
Fruška Gora: Andrevlje, 28.02.2013., on deciduous tree, dead
wood, F.G. 419, leg. & det. D. Savić.
- 90.**Mollisia nervicola* (Desm.) Gillet
Fruška Gora: Sremska Kamenica, 14.05.2015., on *Quercus robur*,
leaf, F.G. 345, leg. & det. D. Savić.

- 91.**Mollisia olivaceocinerea* Svrček
Fruška Gora: Brankovac, 11.03.2016., on *Betula pendula*, branch, F.G. 126, leg. & det. D. Savić; Andrevlje, 13.09.2016., on deciduous tree, branch, leg. & det. D. Savić, Bukovac, 24.11.2016., on *Pinus nigra*, dead wood, F.G. 873, leg. & det. D. Savić
- 92.* *Mollisia phalaridis* (Lib. ex P. Karst.) Rehm
Fruška Gora: Sremska Kamenica, 18.04.2016., on *Poaceae*, leaf, F.G. 200, leg. & det. D. Savić.
- 93.**Mollisia retincola* (Rabenh.) P. Karst.
Fruška Gora: Rakovac, 30.04.2013., on *Phragmites australis*, dead stem, F.G. 485, leg. & det. D. Savić.
- 94.* *Mollisia revincta* (P. Karst.) Rehm
Fruška Gora: Paragovo, 19.05.2016., on *Rubus sp.*, branch, F.G. 274, leg. & det. D. Savić.
- 95.**Mollisia rosae* (Pers.) P. Karst.
Fruška Gora: Brankovac, 28.05.2013., on *Rosa canina*, branch, F.G. 558, leg. & det. D. Savić.

Fam.: **Pezizellaceae** Velen. 1934

- 96.**Allophylaria byssacea* P. Karst.
Fruška Gora: Brankovac, 04.11.2015., on *Arctium lappa*, leaf, F.G. 559, leg. & det. D. Savić.
- 97.**Allophylaria filicum* (W. Phillips) Svrček
Fruška Gora: Vrdnik, 08.11.2016., on *Dryopteris filix-mas*, leaf, F.G. 840, leg. & det. D. Savić.
- 98.**Antinoia pulchella* (Fuckel) Baral
Fruška Gora: Bešenovački prnjavor, 25.11.2016., on *Pinus nigra*, leaf, F.G. 845, leg. & det. D. Savić.
99. *Calycellina alniella* (Nyl.) Baral
Fruška Gora: Paragovo, Karaman *et al.* 2012: 43, sub *Pezizella alniella*; Testera, 20.02.2014., on *Alnus glutinosa*, catkin, leg. & det. D. Savić.
- 100.**Calycellina chlorinella* (Ces.) Dennis
Fruška Gora: Andrevlje, 24.11.2015., on *Urtica dioica*, dead stem, F.G. 486, leg. & det. D. Savić.
- Calycellina fagina* (Ant. Schmidt & Arendh.) Baral
Serbia: more locations, Karadžić 2003: 62, sub *Scutoscypha fagi*, on *Fagus sylvatica*.

- 101.**Calycellina populina* (Fuckel) Hohn.
Fruška Gora: Jabuka, 28.11.2012., on *Fagus sylvatica*, leaf, F.G. 560, leg. & det. D. Savić; Ledinci, 22.11.2013., on *F. sylvatica*, leaf, F.G. 420, leg. & det. D. Savić.
Calycellina punctata (Fr.) Lowen & Dumont
Serbia: northeastern part, Karadžić & Milijašević 2005: 73, sub *Calycellina punctiformis*, on *Quercus petraea*.
- 102.**Calycellina rubescens* (Mouton) Van Vooren
Fruška Gora: Iriški Venac, 07.10.2016., on *Quercus petraea*, leaf, F.G. 858, leg. & det. D. Savić.
103. *Calycina citrina* (Hedw.) Gray
Fruška Gora: Bukovac, Dumbovo, Iriški Venac, Papratski Do and Stražilovo, Karaman *et al.* 2012: 44, sub *Bisporella citrina*.
Serbia: Beograd (Topčider) and Mt Stara Planina (Međa Planina), Ranojević 1910: 352, sub *Helotium citrinum*; Mt Stara Planina, Ivančević 2007: 159, sub *Bisporella citrina*.
- 104.**Calycina claroflava* (Grev.) Kuntze
Fruška Gora: Stražilovo, 10.06.2016., on deciduous tree, dead wood, F.G. 859, leg. & det. D. Savić.
105. *Calycina conorum* (Rehm) Baral.
Fruška Gora: Iriški Venac, 21.02.2007., on *Pinus nigra*, cone, F.G. 275, leg. & det. D. Savić.
Serbia: Karadžić & Stanivuković 2010: 5, sub *Pezizella chionea*, on *Pinus nigra* and *Pinus sylvestris*; more locations, Karadžić & Milijašević 2008: 151, sub *P. chionea*, on *P. nigra* and *P. sylvestris*.
- 106.**Calycina cruentata* (P. Karst.) Kuntze
Fruška Gora: Vrdnik, 10.11.2016., on *Carex silvatica*, leaf, F.G. 842, leg. & det. D. Savić.
- 107.**Calycina gemmarum* (Boud.) Baral
Fruška Gora: Stražilovo, 17.04.2013., on *Populus nigra* 'Italica', fallen buds, F.G. 346, leg. & det. D. Savić.
- 108.**Calycina herbarum* (Pers.) Gray
Fruška Gora: Kraljeva stolica, 10.10.2013., on herbaceous plant, dead stem, F.G. 487, leg. & det. D. Savić; Jabuka, 11.10.2013., on herbaceous plant, dead stem, F.G. 488, leg. & det. D. Savić.
- 109.**Calycina italica* (Sacc.) Baral
Fruška Gora: Ledinci, 01.11.2016., on *Quercus petraea*, branch, F.G. 860, leg. & det. D. Savić; Paragovo, 18.12.2015., on *Q. petraea*, branch, F.G. 861, leg. & det. D. Savić.

- Calycina phyllophila* (Desm.) Baral
Serbia: Karadžić & Milijašević 2003: 28, sub *Hymenoscyphus phyllophilus*, on *Fagus sylvatica*; more locations, Karadžić 2003: 62, on *F. sylvatica*.
- 110.**Calycina scolochloae* (De Not.) Baral
Fruška Gora: Sremska Kamenica, 30.03.2015., on *Phragmites australis*, dead stem, F.G. 582, leg. & det. D. Savić.
- 111.**Calycina subcitrina* (Velen.) Baral
Fruška Gora: Sremska Kamenica, 24.10.2016., on *Acer platano-ides*, leaf, F.G. 862, leg. & det. D. Savić.
- 112.**Calycina subtilis* (Fr.) Baral
Fruška Gora: Iriški Venac, 21.11.2016., on *Pinus nigra*, leaf, F.G. 843, leg. & det. D. Savić.
- 113.**Calycina vulgaris* (Fr.) Baral
Fruška Gora: Beočin, 12.12.2013., on *Salix alba*, branch, F.G. 561, leg. & det. D. Savić.
- 114.**Mollisia rubi* (Rehm) Höhn.
Fruška Gora: Andrevlje, 27.10.2016., on *Rubus sp.*, leaf, leg. & det. D. Savić.
- Pezizella fagi* (Jaap) Matheis
Serbia: Karadžić & Milijašević 2003: 28, on *Fagus sylvatica*; more locations, Karadžić 2003: 62, on *F. sylvatica*.
- 115.**Ciliolarina laetifica* Huhtinen
Fruška Gora: Iriški Venac, 03.03.2016., on *Pinus nigra*, dead wood, F.G. 421, leg. & det. D. Savić; Paragovo, 21.11.2016., on *Pinus nigra*, dead wood, leg. & det. D. Savić
- 116.**Ciliolarina laricina* (Raitv.) Svrček
Fruška Gora: Stražilovo, 27.12.2016., on *Picea abies*, dead wood, F.G. 863, leg. & det. D. Savić
- 117.**Psilachnum chrysostigmum* (Fr.) Raitv.
Fruška Gora: Iriški Venac, 28.04.2014., on *Asplenium scolopendrium*, leaf, F.G. 276, leg. & det. D. Savić; 29.04.2014., on *Dryopteris filix-mas*, leaf, F.G. 489, leg. & det. D. Savić; Testera, 09.03.2016., on *Pteridium aquilinum*, leaf, F.G. 490, leg. & det. D. Savić.
- 118.**Psilachnum eburneum* (Roberge) Baral
Fruška Gora: Glavica, 15.03.2016., on *Poa pratensis*, leaf, F.G. 562, leg. & det. D. Savić.

- 119.**Psilachnum lanceolatoparaphysatum* (Rehm) Höhn.
Fruška Gora: Brankovac, 08.05.2015., on *Helleborus odorus*,
leaf, F.G. 347, leg. & det. D. Savić.
- 120.**Psilachnum rubicundum* (Sacc. & Speg.) Baral
Fruška Gora: Iriški Venac, 03.06.2016., on *Helleborus odorus*,
leaf, F.G. 201, leg. & det. D. Savić.
- 121.**Rodwayella citrinula* (P. Karst.) Spooner
Fruška Gora: Grgurevci, 08.02.2016., on *Poa pratensis*, dead
stem, F.G. 422, leg. & det. D. Savić.
- Fam.: **Ploettnerulaceae** Kirschst. 1924
- Pirotaea gallica* Sacc.
Serbia: Beograd (Topčider), Ranojević 1914: 394, on *Helleborus
odorus*.
- 122.**Pirotaea imbricata* Nannf.
Fruška Gora: Andrevlje, 22.04.2016., on *Rubus sp.*, branch, F.G.
277, leg. & det. D. Savić.
- 123.**Pirotaea lychnidis* (Desm.) Chlebická
Fruška Gora: Beočin, 11.03.2016., on *Silene alba*, dead stem,
F.G. 563, leg. & det. D. Savić.
- 124.**Pirotaea senecionis* (Cooke & W. Phillips) Nannf.
Fruška Gora: Andrevlje, 15.05.2015., on *Centaurea scabiosa*,
dead stem, F.G. 491, leg. & det. D. Savić.
- 125.**Pirotaea veneta* Sacc. & Speg.
Fruška Gora: Brankovac, 23.04.2015., on *Helleborus odorus*,
leaf, F.G. 202, leg. & det. D. Savić.
- 126.**Pyrenopeziza atrata* (Pers.) Fuckel
Fruška Gora: Andrevlje, 22.04.2016., on *Apiaceae*, dead stem,
F.G. 278, leg. & det. D. Savić; Paragovo, 28.08.2015., on
Angelica sylvestris, dead stem, F.G. 583, leg. & det. D. Savić.
- 127.**Pyrenopeziza carduorum* Rehm
Fruška Gora: Brankovac, 01.04.2013., on *Centaurea scabiosa*,
dead stem, F.G. 423, leg. & det. D. Savić.
- 128.**Pyrenopeziza rubi* (Fr.) Rehm
Fruška Gora: Andrevlje, 22.04.2016., on *Rubus sp.*, branch, F.G.
493, leg. & det. D. Savić; Ledinci, 06.05.2016., on *Rubus sp.*,
branch, F.G. 492, leg. & det. D. Savić.
- Pyrenopeziza homogynes* J. Schröt.
Serbia: Mt Kopaonik (Jelak), Ranojević 1914: 394, sub *Pseudo-
peziza homogynes*, on *Homogyne alpina*.

Pyrenopeziza petiolaris (Alb. & Schwein.) Nannf.

Serbia: Beograd (Košutnjak), Ranojević 1910: 354, sub *Trochila petiolaris*, on *Aesculus hippocastanum*.

Fam.: **Rutstroemiaceae** Holst-Jensen, L.M. Kohn & T. Schumach. 1997

129. *Rutstroemia bolaris* (Batsch.) Rehm

Fruška Gora: Karadžić 2011: 4, on *Carpinus betulus*; Paragovo, Karaman *et al.* 2012: 44; Andrevlje, 05.09.2014., on *Quercus sp.*, branch, leg. & det. D. Savić.

Serbia: NP Đerdap and Karakuša, Karadžić 2011: 4, on *Carpinus betulus*.

Rutstroemia bulgarioides (P. Karst.) P. Karst.

Serbia: Mt Zlatar, Mt Kopaonik and NP Tara, Karadžić 2008: 85, on *Picea abies*; more locations, Keča 2006: 130.

130.**Rutstroemia echinophila* (Bull.) Höhn.

Fruška Gora: Ledinci, 13.09.2005., on *Quercus sp.*, cupula, F.G. 274, leg. & det. D. Savić; Glavica, 30.08.2013., on *Quercus sp.*, cupula, leg. & det. D. Savić; Andrevlje, 05.09.2013., on *Quercus sp.*, cupula, F.G. 584, leg. & det. D. Savić; Papratski Do, 06.10.2015., on *Quercus sp.*, cupula, F.G. 585, leg. & det. D. Savić.

131. *Rutstroemia firma* Pers.

Fruška Gora: Ledinci, Karaman *et al.* 2012: 44; Papratski Do, 18.10.2012., on deciduous tree, branch, FG264, leg. & det. D. Savić; Papratski Do, 06.10.2015., on *Quercus petraea*, branch, leg. & det. D. Savić; Stražilovo, 13.10.2015., on *Q. petraea*, branch, F.G. 348, leg. & det. D. Savić.

Serbia: Bojčinska šuma, Ivančević & Davidović 2011: 26.

132.**Rutstroemia fruticeti* Rehm

Fruška Gora: Brankovac, 08.11.2014., on *Rubus silesiacus*, branch, F.G. 864, leg. & det. D. Savić.

133.**Rutstroemia luteovirescens* (Roberge ex Desm.) W.L. White

Fruška Gora: Iriški Venac, 29.10.2012., on *Acer platanoides*, branch, F.G. 279, leg. & det. D. Savić; Jabuka, 11.10.2013., on *A. platanoides*, branch, F.G. 494, leg. & det. D. Savić; Andrevlje, 15.10.2013., on *A. platanoides*, branch, F.G. 349, leg. & det. D. Savić.

134. *Rutstroemia petiolorum* (Roberge ex Desm.) W.L. White

Fruška Gora: Popovica, 06.10.2015., on *Fagus sylvatica*, leaf, petiole, F.G. 203, leg. & det. D. Savić.

Sebia: Karadžić & Milijašević 2003: 28, on *F. sylvatica*; Karadžić 2006: 49, on *Quercus petraea*; more locations, Karadžić 2003: 62, on *F. sylvatica*; northeastern part, Karadžić & Milijašević 2005: 75, on *Q. petraea*.

135.**Rutstroemia sydowiana* (Rehm) W.L. White

Fruška Gora: Glavica, 30.08.2013., on *Quercus petraea*, leaf, petiole, F.G. 127, leg. & det. D. Savić.

136.**Torrendiella ciliata* Boud.

Fruška Gora: Andevlje, 27.10.2016., on *Rubus hirtus*, leaf, F.G. 838, leg. & det. D. Savić.

Fam.: **Sclerotiniaceae** Whetzel 1945

137. *Botryotinia fuckeliana* (de Bary) Whetzel

Fruška Gora: Kraljeva stolica, 23.02.2007., anamorph, F.G. 495, leg. & det. D. Savić.

Serbia: Karadžić & Milijašević 2003: 27, sub *Botrytis cinerea*, on *Fagus sylvatica*; Karadžić & Milijašević 2008: 150, sub *B. cinerea*, on *Pinus nigra* and *Pinus sylvestris*; Karadžić 2006: 49, sub *B. cinerea* Pers., on *Quercus petraea*, *Q. frainetto* and *Q. cerris*; Keča 2006: 130, sub *B. cinerea*; Karadžić 2012: 3, sub *B. cinerea*, on *F. sylvatica*; Karadžić & Stanivuković 2010: 3, sub *B. cinerea*, on *P. nigra* and *P. sylvestris*; Beograd (Topčider), Ranojević 1910: 395, sub *B. cinerea*, on *Vitis vinifera* and *Ranunculus ficaria*; northeastern part, Karadžić & Milijašević 2005: 73, sub *B. cinerea*, on *Q. petraea*; more locations, Karadžić 2003: 61, sub *B. cinerea*, on *F. sylvatica*; Novi Sad, Marković 2012: 25, sub *B. cinerea*.

Botrytis elliptica (Berk.) Cooke (Anamorphic *Botryotinia*)

Serbia: Bulaić *et al.* 2006: 96, on *Lilium sp.* anamorph.

138.**Botrytis galanthina* (Berk. & Broome) Sacc. (Anamorphic *Botryotinia*)

Fruška Gora: Brankovac, 18.02.2014., on *Galanthus nivalis*, anamorph, F.G. 280, leg. & det. D. Savić.

139.**Ciboria amentacea* (Balb.) Fuckel

Fruška Gora: Testera, 05.03.2013., on *Alnus glutinosa*, rotting catkins, F.G. 567, leg. & det. D. Savić; Beočin, 06.02.2013., on *Corylus avellana*, rotting catkins, F.G. 566, leg. & det. D. Savić; Glavica, 08.02.2014., on *C. avellana*, rotting catkins, F.G. 565, leg. & det. D. Savić.

140. *Ciboria batschiana* (Zopf) N.F. Buchw.

Fruška Gora: Stražilovo, 13.10.2015., on *Quercus petraea*, acorn, F.G. 496, leg. & det. D. Savić.

Serbia: Karadžić & Milijašević 2005: 75, sub *Stromatinia pseudotuberosa*, on *Quercus petraea*; northeastern part, Karadžić & Milijašević 2005: 73, on *Q. petraea*; Stara Planina, Ivančević 2007: 160.

141.**Ciboria conformata* (P.Karst.) Svrček
Fruška Gora: Testera, 20.08.2013., on *Alnus glutinosa*, leaf, F.G. 497, leg. & det. D. Savić.

142.**Ciboria coryli* (Schellenb.) N.F. Buchw.
Fruška Gora: Grgurevci, 08.02.2015., on *Corylus avellana*, rotting catkins, F.G. 865, leg. & det. D. Savić.

143.**Ciborinia bresadolae* (Rick) J.T. Palmer
Fruška Gora: Testera, 19.03.2014., on *Quercus sp.*, branch, F.G. 568, leg. & det. D. Savić; Papratski Do, 06.10.2015., on *Quercus petraea*, acorn, FG271, F.G. 569, leg. & det. D. Savić.

Ciborinia candolleana (Lev.) Whetzel
Serbia: Karadžić 2006: 49, on *Quercus petraea*, *Q. frainetto* and *Q. cerris* L.; northeastern part, Karadžić & Milijašević 2005: 73, on *Q. petraea*.

144. *Dumontinia tuberosa* (Bull.) L.M. Kohn
Fruška Gora: Iriški Venac, Karaman *et al.* 2012: 44; Rakovac, 26.02.2014., on *Anemone ranunculoides*, rhizome, F.G. 350, leg. & det. D. Savić.

Monilinia fructicola (G. Winter) Honey
Serbia: Hrustić *et al.* 2015

145. *Monilinia fructigena* Honey
Fruška Gora: Paragovo, 01.09.2015., on *Malus sylvestris*, fruit, anamorph, F.G. 128, leg. & det. D. Savić.
Serbia: Ranojević 1910: 395, sub *Monilia fructigena*, on *M. sylvestris*, *Pirus communis*, *Prunus domestica*, *P. avium* and *P. cerasus*, anamorph; Hrustić *et al.* 2015.

146.**Monilinia johnsonii* (Ellis & Everh.) Honey
Fruška Gora: Glavica, 15.03.2016., on *Crataegus monogyna*, fruit, F.G. 424, leg. & det. D. Savić.

Monilinia laxa (Aderh. & Ruhland) Honey
Serbia: Miletić & Stević 2006: 24; Hrustić *et al.* 2015; Beograd, Ranojević 1910: 395, sub *Monilia cinerea*, on *Prunus avium*, anamorph.

Sclerotinia minor Jagger
Serbia: Halaši *et al.* 2008, on *Lactuca sativa*.

147. *Sclerotinia sclerotiorum* (Lib.) de Bary
 Fruška Gora: Brankovac, 20.09.2014., on *Helianthus annuus*,
 anamorph, leg. & det. D. Savić; Petrovaradin, 04.04.2016., leg. &
 det. D. Savić; Iriški Venac, 15.04.2016., F.G. 204, leg. & det. D.
 Savić.
 Serbia: Beograd, Ranojević 1910: 352, sub *Sclerotinia libertiana*;
 Pančevo, Pavlović *et al.* 2006: 34, on *Echinacea angustifolia* and
Echinacea purpurea.

- 148.**Sclerotinia trifoliorum* Erikss.
 Fruška Gora: Novo Hopovo, 23.10.2013., on *Trifolium repens*,
 leaf, F.G. 281, leg. & det. D. Savić.

***Strossmayeria* lineage Jaklitsch *et al.* 2016**

- 149.**Durella atrocyanea* (Fr.) Höhn.
 Fruška Gora: Iriški Venac, 16.04.2014., on *Carpinus betulus*,
 dead wood, F.G. 499, leg. & det. D. Savić.

- 150.**Durella commutata* Fuckel
 Fruška Gora: Osovlje, 18.08.2014., on *Quercus petraea*, wood,
 F.G. 498, leg. & det. D. Savić.

Durella connivens (Fr.) Rehm
 Serbia: Karadžić & Milijašević 2003: 27, on *Fagus sylvatica*;
 more locations, Karadžić 2003: 62, on *F. sylvatica*.

- 151.**Strossmayeria basitricha* (Sacc.) Dennis
 Fruška Gora: Paragovo, 04.07.2014., on *Quercus sp.*, branch,
 F.G. 570, leg. & det. D. Savić.

Incertae sedis

- 152.**Leptodontidium trabinellum* (P. Karst.) Baral, Platas & R. Galán
 Fruška Gora: Rakovac, 16.07.2014., on *Fagus sylvatica*, dead
 wood, F.G. 351, leg. & det. D. Savić.

Monostichella salicis (Westend.) Arx (Anamorphic *Drepanopeziza*)
 Serbia: Marković *et al.* 2007: 78, on *Salix spp.*, anamorph;
 Central Danube Region, Marković & Karadžić 2006: 186, on
Salix sp. anamorph.

- 153.**Polydesmia pruinosa* (Gerd. ex Berk. & Broome) Boud.
 Fruška Gora: Andrevlje, 25.12.2013., on *Nemania serpens*, F.G.
 129, leg. & det. D. Savić.

Rhynchosporium secalis (Oudem.) Davis (Anamorphic Helotiales)
 Serbia: Čoja 1998: 25, anamorph.

Ordo: LEOTIALES Korf & Lizoň 2001

Fam.: **Geoglossaceae** Corda 1842

**Geoglossum fallax* E.J. Durand

Serbia: Mt Kukavica (Slatina village), 28.11.2016., F.G. 846, leg. S. Jovanović, det. D. Savić.

154.**Trichoglossum hirsutum* (Pers.) Boud.

Fruška Gora: Bukovac, 17.11.2014., grassland, F.G. 425, leg. & det. D. Savić.

Fam.: **Leotiaceae** Corda 1842

155. *Leotia lubrica* (Scop.) Pers.

Fruška Gora: Paragovo, Karaman *et al.* 2012: 44; Petrovaradinski rit, Karaman *et al.* 2012: 44; Stražilovo, 30.09.2014., on soil, F.G. 205, leg. & det. D. Savić.

Ordo: PHACIDIALES Höhn 1917

Fam.: **Phacidiaceae** Fr. 1849

156. *Bulgaria inquinans* (Pers.) Fr.

Fruška Gora: Glavica, Karaman *et al.* 2012: 43; Paragovo, Karaman *et al.* 2012: 43; Stražilovo, Karaman *et al.* 2012: 43; Vorovo, Karaman *et al.* 2012: 43.

Serbia: Karadžić & Milijašević 2003: 27, on *Fagus sylvatica*; Karadžić 2006: 52, on *Quercus petraea*, *Q. frainetto* and *Q. cerris*; Karadžić 2012: 3, on *F. sylvatica*; more locations, Karadžić 2003: 65, on *F. sylvatica*; northeastern part, Karadžić & Milijašević 2005: 73, on *Q. petraea*; Mt Tara, Ranojević 1910: 354, sub *Bulgaria polymorpha*, on *F. sylvatica*; Mt Stara Planina, Ivančević 2007: 159; Bojčinska šuma, Ivančević & Davidović 2011: 24.

Gremmenia infestans (P. Karst.) Crous

Serbia: Karadžić & Stanivuković 2010: 5, sub *Phacidium infestans*, on *Pinus nigra* and *P. sylvestris*; more locations, Karadžić & Milijašević 2008: 152, sub *Ph. infestans*, on *P. nigra* and *P. sylvestris*; Mt Golija (Crepuljnik-Kamenito brdo), Gajić 1989: 60, sub *Ph. infestans*.

Phacidium lacerum Fr.

Serbia: more locations, Karadžić & Milijašević 2008: 152, on *Pinus sylvestris*.

157. *Phacidium lauri* (Sowerby) Crous & D. Hawksw.

Fruška Gora: Fruška Gora, Marković 2012: 26, sub *Ceuthospora lauri*, on *Prunus avium*; Sremska Kamenica, 21.03.2015., on *Ilex aquifolium*, leaf, F.G. 426, leg. & det. D. Savić.

Fam.: **Tympanidaceae** Baral & Quijada 2015

- 158.**Claussenomyces atrovirens* (Pers.) Korf & Abawi
Fruška Gora: Iriški Venac, 28.02.2014., *Pinus nigra*, decorticated wood, F.G. 866, leg. & det. D. Savić.
159. *Holwaya mucida* (Schulzer) Korf. & Abawi
Fruška Gora: Papratski Do, Karaman *et al.* 2012: 43; Iriški Venac, Karaman *et al.* 2012: 43.
- 160.**Tympanis alnea* (Pers.) Fr.
Fruška Gora: Testera, 28.02.2014., on *Alnus glutinosa*, bark, F.G. 282, leg. & det. D. Savić.
- Tympanis hypopodia* Nyl.
Serbia: Karadžić & Stanivuković 2010: 6, on *Pinus nigra* and *P. sylvestris*; more locations, Karadžić & Milijašević 2008: 153, on *P. nigra* and *P. sylvestris*.
- 161.**Tympanis prunicola* J.W. Groves
Fruška Gora: Bukovac, 21.03.2014., on *Prunus spinosa*, kora, F.G. 352, leg. & det. D. Savić.

Ordo: RHYTISMATALES M.E. Barr ex Minter 1986

Fam.: **Cudoniaceae** P.F. Cannon 2001

- Cudonia circinans* (Pers.) Fr.
Serbia: Ivančević 1995: 148; Mt Tara (Crveni Potok), Čolić 1967: 413.

Fam.: **Marthamycetaceae** Baral, Lantz, Hustad & Minter 2015

162. *Cyclaneusma minus* (Butin) DiCosmo, Peredo & Minter
Fruška Gora: Stražilovo, 21.03.2014., on *Pinus nigra*, leaf, F.G. 130, leg. & det. D. Savić.
Serbia: Karadžić & Stanivuković 2010: 4, on *Pinus sylvestris*; more locations, Karadžić & Milijašević 2008: 150, on *P. sylvestris*; Golija, Gajić 1989: 60, sub *Naemacyclus minor*.
163. *Cyclaneusma niveum* (Pers.) DiCosmo
Fruška Gora: Popovica, 14.03.2016., on *Pinus nigra*, leaf, F.G. 206, leg. & det. D. Savić.
Serbia: Karadžić & Stanivuković 2010: 4, on *P. nigra*; more locations, Karadžić & Milijašević 2008: 150, on *P. nigra*; Mt Golija, Gajić 1989: 60, sub *Naemacyclus niveus*; Suvobor, Golubović-Ćurguz *et al.* 2013: 166, sub *N. niveus*, on *P. nigra*.

Naemacyclus fimbriatus (Schwein.) DiCosmo, Peredo & Minter
Serbia: Karadžić & Stanivuković 2010: 4, sub *Lasiostictis fimbriata*, on *Pinus sylvestris*; more locations, Karadžić & Milijašević 2008: 151, sub *L. fimbriata*, on *P. sylvestris*.

164. *Propolis farinosa* (Pers.) Fr.
Fruška Gora: Crveni čot, Karaman *et al.* 2012: 44; Stražilovo, 08.07.2013., on deciduous tree, dead wood); Andrevlje, 18.04.2004., on deciduous tree, dead wood, leg. & det. D. Savić.
Serbia: Beograd (Topčider) and Kragujevac (Košutnjak), Ranojević 1910: 354, sub *Propolis faginea*, on *Quercus cerris* and *Cornus mas*.

Fam.: **Rhytismataceae** Chevall. 1826

165. *Coccomyces dentatus* (J.C. Schmidt)
Fruška Gora: Sremska Kamenica, Schulzer *et al.* 1866: 57, sub *Phacidium dentatum*.
Serbia: Karadžić 2006: 49, sub *Leptothyrium quercinum*, on *Quercus petraea*, *Q. frainetto* and *Q. cerris*; northeastern part, Karadžić & Milijašević 2005: 74, sub *L. quercinum*, on *Quercus petraea*.
166. *Colpoma quercinum* (Pers.) Wallr.
Fruška Gora: Iriški Venac, 29.12.2016., *Quercus petraea*, branch, F.G. 874, leg. & det. D. Savić.
Serbia: Karadžić 2006: 51, on *Quercus petraea*; northeastern part, Karadžić & Milijašević 2005: 74, on *Q. petraea*.
- 167.**Hypoderma ilicinum* De Not.
Fruška Gora: Grgurevci, 17.10.2016., on *Quercus petraea*, leaf, F.G. 867, leg. & det. D. Savić.
- 168.**Hypoderma rubi* (Pers.) DC.
Fruška Gora: Paragovo, 07.02.2014., on *Rubus silesiacus*, branch, F.G. 353, leg. & det. D. Savić; Brankovac, 25.02.2014., on *R. silesiacus*, branch, leg. & det. D. Savić.
Hypohelion scirpinum (DC.) P.R. Johnst.
Serbia: Kijevo, Ranojević 1910: 354, sub *Hypoderma scirpinum*, on *Schoenoplectus lacustris*.
Lirula macrospora (R. Hartig) Darker
Serbia: Mt Tara (Crveni Potok), Čolić 1967: 443, sub *Lophodermium macrosporum*; Golija, Gajić 1989: 60; Zlatar, Kopaonik and NP Tara, Karadžić 2008: 85, on *Picea abies*.

Lirula nervisequa (DC.) Darker

Serbia: Mt Tara (Crveni Potok), Čolić 1967: 443, sub *Lophodermium nervisequum*; Golija, Gajić 1989: 60; Mt Zlatar, Mt Kopaonik and NP Tara, Karadžić 2008: 85, on *Abies alba*.

Lophodermella sulcigena (Link) Höhn.

Serbia: Karadžić & Stanivuković 2010: 4, on *Pinus sylvestris*; more locations, Karadžić & Milijašević 2008: 151, on *P. sylvestris*.

169. *Lophodermium arundinaceum* (Schrad.) Chevall.

Fruška Gora: Sremska Kamenica, 15.03.2014., on *Phragmites australis*, leaf, FG123, leg. & det. D. Savić.

Serbia: Krepoljin (Gradac), Ranojević 1910: 354, sub *L. arundinaceum* var. *piptatheri*, on *Piptatherum paradoxum*.

170.**Lophodermium caricinum* (Roberge ex Desm.) Duby

Fruška Gora: Zmajevac, 21.04.2015., on *Carex pilosa*, leaf, F.G. 500, leg. & det. D. Savić.

Lophodermium conigenum (Brunaud) Hiltzer

Serbia: Karadžić & Stanivuković 2010: 4, on *Pinus nigra* and *P. sylvestris*; more locations, Karadžić & Milijašević 2008: 151, on *P. nigra* and *P. sylvestris*.

171. *Lophodermium foliicola* (Fr.) P.F. Cannon & Minter

Fruška Gora: Glavica, 19.04.2016., on *Crataegus monogyna*, leaf, leg. & det. D. Savić; Erdelj, 20.04.2016., on *Pyrus communis*, leaf, F.G. 207, leg. & det. D. Savić.

Serbia: Kragujevac (Košutnjak), Ranojević 1910: 354, sub *L. hysterioides*, on *Pyrus communis*.

172.**Lophodermium gramineum* (Fr.) Chevall.

Fruška Gora: Erdelj, 30.05.2013., on *Poaceae*, leaf, F.G. 283, leg. & det. D. Savić; Glavica, 26.03.2014., on *Poaceae*, leaf, F.G. 501, leg. & det. D. Savić.

173. *Lophodermium juniperinum* (Fr.) De Not.

Fruška Gora: Iriški Venac, 19.03.2015., on *Juniperus horizontalis*, leaf, FG86, leg. & det. D. Savić.

Serbia: Deliblatska Peščara sands, Milijašević 2003: 165, sub *L. juniperi*, on *Juniperus virginiana*.

Lophodermium petiolicola Fuckel

Serbia: Karadžić 2006: 49, on *Quercus petraea* L.; northeastern part, Karadžić & Milijašević 2005: 75, on *Quercus petraea* L.

Lophodermium piceae (Fuckel) Höhn.

Serbia: Mt Zlatar, Mt Kopaonik and NP Tara, Karadžić 2008: 85, on *Picea abies*.

174. *Lophodermium pinastri* (Schrad.) Chevall.

Fruška Gora: Iriški Venac, 10.04.2014., on *Pinus nigra*, leaf, FG198, leg. & det. D. Savić.

Serbia: Milijašević & Karadžić 2004: 122, on *P. nigra*; Karadžić & Stanivuković 2010: 4, on *P. nigra* and *P. sylvestris*; more locations, Karadžić & Milijašević 2008: 151, on *P. nigra* and *P. sylvestris*; Golija, Gajić 1989: 59, on *P. nigra* and *P. sylvestris*; Suvobor, Golubović-Čurguz *et al.* 2013: 166, on *P. nigra*.

Lophodermium pini-excelsae S. Ahmad

Serbia: Karadžić & Stanivuković 2010: 4, on *Pinus sylvestris*; more locations, Karadžić & Milijašević 2008: 151, on *P. sylvestris*.

Lophodermium seditiosum Minter, Staley & Millar

Serbia: Karadžić & Stanivuković 2010: 4, on *Pinus nigra* and *Pinus sylvestris*; more locations, Karadžić & Milijašević 2008: 151, on *P. nigra* and *P. sylvestris*; Golija, Gajić 1989: 59, on *P. nigra* and *P. sylvestris*; Suvobor, Golubović-Čurguz *et al.* 2013: 166, on *P. nigra*.

Pseudorhytisma bistortae (DC.) Juel

Serbia: Mt Kopaonik (Srebrnac) and Suvo rudište, Ranojević 1914: 394, sub *Pseudopeziza bistortae*, on *Persicaria bistorta*.

175. *Rhytisma acerinum* Pers.

Fruška Gora: Iriški Venac, Ranković 1955., on *Acer pseudoplatanus*; Karaman *et al.* 2012: 44; Paragovo, 21.09.2014., on *Acer campestre*, leaf, F.G. 588, leg. & det. D. Savić; Beočin, 29.09.2013., on *A. campestre*, leaf, anamorph, F.G. 587, leg. & det. D. Savić.

Serbia: Beograd (Topčider) and Mt Cer, Ranojević 1910: 354, on *Acer campestre*; Mt Suva Planina (Ravno Bučje), Ranojević 1910: 354, on *Acer pseudoplatanus*; Beograd (Topčider), Počuta and Mt Suva Planina (Ravno Bučje), Ranojević 1910: 392, sub *Melasmia acerina*, on *A. campestre* and *A. pseudoplatanus*; Mt Tara (Crveni Potok), Čolić 1967: 443, on *A. pseudoplatanus* and *A. platanoides*.

176.**Rhytisma punctatum* (Pers.) Fr.

Fruška Gora: Osovlje, 15.08.2014., on *Acer tataricum*, leaf, F.G. 354, anamorph, leg. & det. D. Savić.

Rhytisma salicinum (Pers.) Fr.

Serbia: Mt Tara (Crveni Potok), Čolić 1967: 443, on *Salix spp.*

Rhytisma umbonatum Hoppe

Serbia: Mt Tara (Crveni Potok), Čolić 1967: 443, sub *Rhytisma amphigenum*.

Therrya pini (Alb. & Schwein.) Höhn.

Serbia: Karadžić & Stanivuković 2010: 6, on *Pinus sylvestris*; more locations, Karadžić & Milijašević 2008: 153, on *P. sylvestris*.

Uncertain status177.**Karstenia rhopaloides* (Sacc.) Baral

Fruška Gora: Brankovac, 11.03.2016., on *Salix caprea*, bark, F.G. 284, leg. & det. D. Savić.

Order: THELEBOLALES P.F. Cannon 2001

Fam.: **Thelebolaceae** Eckblad 1968178.**Thelebolus stercoreus* Tode

Fruška Gora: Grgurevci, 02.12.2016., *Oryctolagus cuniculus*, dung, F.G. 868, leg. & det. D. Savić.

179.**Trichobolus sphaerosporus* Kimbr.

Fruška Gora: Andrevlje, 29.01.2013., on *Capreolus capreolus*, dung, F.G. 208, leg. & det. D. Savić.

180.**Trichobolus zukalii* (Heimerl) Kimbr.

Fruška Gora: Andrevlje, 29.01.2013., on *Capreolus capreolus*, dung, F.G. 209, leg. & det. D. Savić.

Order: THELOCARPALES Lücking & Lumbsch 2016

Fam.: **Thelocarpaceae** Zuck. 1893*Thelocarpon laureri* (Flot.) Nyl.

Serbia: Szabados 1998: 60.

CONCLUSIONS

In the period from 2012 to 2016 we investigated diversity of fungi from the class Leotiomycetes (Ascomycota) on Fruška Gora Mountain. In total we recorded 164 species of which 131 represent the first records for Serbia. For all presented species data of localities, collection dates, host plants and collectors was given, as well as data from the literature concerning all species that have so far been reported from Serbia (excluding Erysiphales). The total number of fungi from the class Leotiomycetes so far recorded in Serbia currently amounts to 342 (including 104 species from the order Erysiphales).

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ГЉИВЕ КЛАСЕ ЛЕОТИОМУСЕТЕС НА ФРУШКОЈ ГОРИ СА ПРЕГЛЕДОМ НОВИХ ВРСТА ЗА СРБИЈУ

ДРАГИША САВИЋ, МАЈА КАРАМАН

РЕЗИМЕ

У периоду од 2012. до 2016. године истраживан је диверзитет гљива класе Leotiomycetes (Ascomycota) на планини Фрушка гора. Укупно смо забележили 164 врста од којих 131 представља прве налазе за Србију. У раду је дата листа свих сакупљених врста припадника класе Leotiomycetes, осим реда Erysiphales, на Фрушкој гори, са подацима о локалитетима, датумима сакупљања и биљкама домаћинима, као и подаци из литературе о свим осталим врстама које су до сада нађене у Србији. Укупан број до сада евидентираних врста из класе Leotiomycetes у Србији износи 342, укључујући и врсте из реда Erysiphales (104).

