

# Rich and rare funga in Zámecký les near Železná Ruda, a small but valuable near-natural mixed forest in the Šumava National Park, Czechia

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## Abstract

The diversity of fungi was studied in Zámecký les forest, located in the Šumava National Park near the town of Železná Ruda in Czechia. It is a near-natural mixed montane forest composed of *Fagus*, *Picea* and *Abies* which is remarkable for large individuals of the two last-named trees and the high amount of dead wood. A very intensive fruitbodies-based survey conducted in 2021–2023 revealed 442 species of fungi, mainly macromycetes, but also some micromycetes. Together with data from 1997–2006, a total of 465 species are known from the area of only 8 hectares. The dominant group is lignicolous fungi. A large number of species from the red lists of fungi of Czechia were found, in particular 29 truly endangered species, and two species protected by law. The species on fallen trunks of *Abies* are especially important. Both in terms of species richness and the presence of rare and threatened species, Zámecký les belongs to the most valuable sites of the mountain mixed stands in the whole Bohemian Forest, right after the Boubínský prales virgin forest on the Czech side and the Mittelsteighütte natural forest on the German side. Notes on the conservation management of Zámecký les are attached.

*Key words:* Europe, Bohemian Forest, Fungi, old-growth forests, red list species

## INTRODUCTION

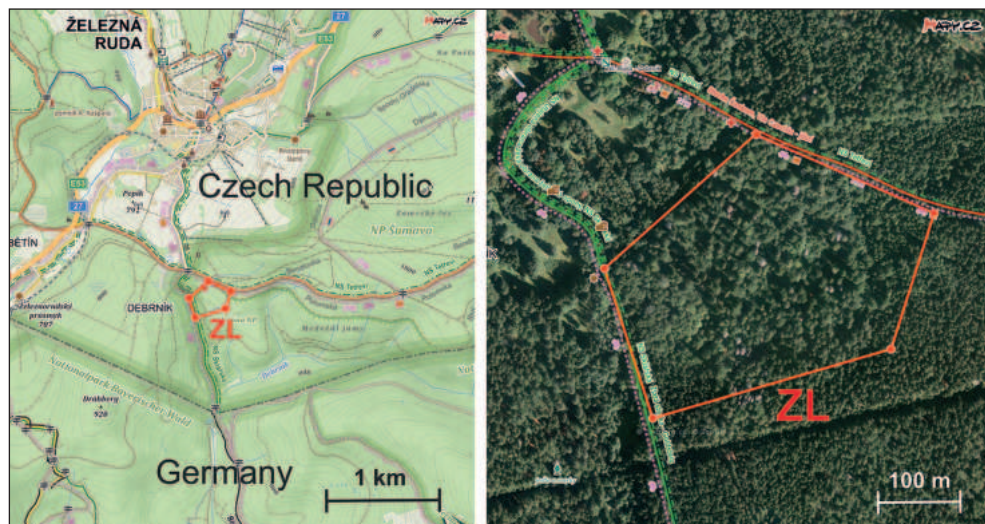
Natural forests are increasingly endangered as a result of human influence, which especially concerns the long-term inhabited landscape of Central Europe. Remnants of such stands are mostly protected as small-scale nature reserves, often located in larger protected areas. The Bohemian Forest, an important Central European mountain range on the border between Germany and Czechia, is protected as the Bavarian National Park (Nationalpark Bayerischer Wald) on the German side and the Šumava National Park and Protected Landscape Area on the Czech side. This region, together with its immediate surroundings, hosts an extraordinary diversity of fungi. More than 4 200 species are known from there (<http://www.fungi-without-borders.eu/en>). The area also includes two mycodiversity hotspots of European importance, namely the Boubínský prales virgin forest in Czechia (HOLEC et al. 2015, HOLEC 2019, BĚŤÁK 2020, HOLEC & KUČERA 2020, HOLEC et al. 2020, 2022a, KOLÉNYOVÁ et al. 2022) and the virgin forest area Mittelsteighütte in Germany (NUSS 1999; records in DGfM

database, see DGfM 2023). Both of them protect a mixed montane forest composed of *Fagus*, *Picea* and *Abies* which is the mycologically richest habitat of the area.

On the Czech side, there are only a few studies on the fungi of mixed mountain forests. Except for Boubínský prales (see references above), more or less complete inventories are available only for Zátoňská hora nature reserve (HOLEC & KRÍŽ 2014), natural forest Medvědice on Mt. Stožec (BĚŤÁK 2018) protected as a natural zone of the Šumava National Park and mainly covered with ravine forests, and Milešický prales nature reserve (LEPŠOVÁ 2021). Numerous research plots in mixed montane forests across the Šumava Mts. have been studied by the Silva Tarouca Research Institute for Landscape and Ornamental Gardening, Brno, Czechia, namely by its mycologist Jan Běťák (included in ŠAMONIL et al. 2018). However, this study was focused only on some groups of fungi (wood-inhabiting, indicators) occurring on plots of dozens to hundreds m<sup>2</sup>.

Based on his past studies (e.g. HOLEC 2000, 2007), the first author knew an interesting mixed montane forest close to the town of Železná Ruda called Zámecký les or Debrník forest, a small area (about 8 ha) surrounded by managed spruce forests (Fig. 1). It is remarkable by numerous huge individuals of Norway spruce (*Picea abies*) and Silver fir (*Abies alba*), both living and fallen. They have a diameter of up to 130 cm, height up to 50 m and age up to 280 years (HOLEC et al. 2024). Due to the multi-aged structure and high amount of dead wood, the stand looks like a virgin forest (Fig. 2). However, it was significantly influenced by man in the past (see next chapter). Since 1991, the stand, currently representing a near-natural forest, is protected as the natural zone of the Šumava National Park.

Fungal records by J. Holec in the period 1997–2006 and collaborating Z. Pouzar in 1997–1999 indicated that interesting and rare species occur on the site (HOLEC 2007). A total of 273 records representing 140 species of fungi were entered into the work database of



**Fig. 1.** Location of Zámecký les forest (ZL) in the Šumava National Park, near the city of Železná Ruda, Czechia. Source of basic maps: Mapy.cz (www.mapy.cz), @Seznam.cz, a.s., 2023.

J. Holec, of which 96 were documented by vouchers in the Mycological Department of the National Museum, Prague (fungarium PRM). Some of them have been published in detail (*Camarops tubulina*: HOLEC 1998, 2005; *Panellus violaceofulvus*: HOLEC & KOUT 2020; *Vibrissea truncorum*: HOLEC 1999). Fungi occurring on freshly fallen trunks of fir were summarized later (HOLEC 2021, *Cyphella digitalis*: HOLEC et al. 2022b). As far as we know, no other mycologist was active at the site.

In the years 2021–2023, we studied the complete macromycete funga of Zámecký les with aim to compare it with similar localities in the Bohemian Forest and selected regions of Czechia. We also paid attention to some micromycetes, especially those on the wood of *Fagus*. The main question was if the local funga is so species-rich and valuable as in localities having the same habitat but higher degree of naturalness (natural forest, virgin forest).

## MATERIAL AND METHODS

### Study site

Czechia, Šumava National Park (NP), 1.6 km S of the village of Železná Ruda, near former settlement Debrník (after former Debrník = Deffernik chateau), forest stand called „Zámecký les“ (Fig. 1); natural zone of the NP; elevation: 770–825 m a.s.l.; coordinates of the centre: 49.1230436N, 13.2352622E; area ± 8 ha; geomorphology: mostly flat terrain, slightly inclined towards the southwest, divided only by a notch of a stream on the northwestern border and several smaller streams in the southern part; geological background: Proterozoic to Paleozoic



**Fig. 2.** Interior of Zámecký les forest, a typical mixed montane forest composed of *Fagus sylvatica*, *Picea abies* and *Abies alba*. Photo: J. Holec.

paragneiss of the Moldanubian Zone (<https://mapy.geology.cz/geocr50/#>); soil: Cambic Podzol on paragneiss plus Gleysol on non-carbonate deposits at moist sites along the streams (<https://mapy.geology.cz/pudy/>); composition of trees: mixed montane forest (dominants: *Fagus sylvatica*: mostly younger and middle-aged trees; *Picea abies* and *Abies alba*: mostly large old trees; admixture: *Acer pseudoplatanus*, *Fraxinus excelsior*, *Sorbus aucuparia*) with multi-aged structure and high amount of coarse wood debris (Fig. 2); habitat: herb-rich beech forest = *Asperulo-Fagetum* beech forest (CHYTRÝ et al. 2010, AOPK ČR 2023) with several waterlogged places around streams and forest springs; degree of naturalness: near-natural forest (for terminology, see <https://naturalforests.cz/databank-terminology-proposal-for-terminology>; for local data, see <https://naturalforests.cz/44034-np-sumava-medvedi-jamy-pod-sklarskym-vrchem>).

### Forest history

Data regarding human impact on Zámecký les and its vicinity were obtained by P. Hubený using historical forestry maps (see HOLEC et al. 2024) and from web site on glassworks in Debrník area (<http://www.sklarskastezka.jz.cz/#m10>). Zámecký les is a near-natural stand that arose from the original virgin forest as a result of human activity. Its total deforestation was probably not allowed by the former owners of the nearby Debrník (Deffernik) chateau (built 1779, demolished in 1989) and glassworks. Zámecký les was affected by selective cutting, especially of beech (for the nearby glass factories existing 1774–1889) but also conifers. Since the oldest firs and spruces reach the age of only 280 years, it is clear that the first major logging took place in the middle of the 18th century and today's oldest trees represent a spontaneous renewal from that time. Old beeches (*Fagus sylvatica*) are almost missing and this tree is mostly present as young and middle-aged individuals. Moreover, selective felling of old spruces and firs continued to the end of the 20th century (HOLEC et al. 2024). In second half of the 20th century, when the area was managed by the Military Forests Enterprise (till 1990), old firs and spruces attacked by bark beetle were cut, decorticated and removed or left at site. This activity is still visible in the form of rotting tree stumps and cut lying trunks.

Zámecký les is surrounded by middle-aged managed spruce forests which replaced the original virgin forests. Their exploitation began in the 18th century, similarly to the case of the Zámecký les itself. In about 1855 an almost complete deforestation south and east of Zámecký les was documented by historical forestry map (HOLEC et al. 2024). The subsequent growth (which arose spontaneously) was completely cut down around 1960. A spruce forest was artificially planted and managed until the creation of the national park in 1991.

### Forest protection

Since 1779 the Zámecký les was probably left as a “park” adjacent to the Debrník chateau (see above). This informal state of protection lasted until 1945 (for history of the chateau, see <http://www.zanikleobce.cz/index.php?obec=539>). In the second half of the 20th century, the forest was left almost untouched except for the selective logging (see above). The site was inaccessible to the public because it lay in a closed border zone existing during the Cold War. Since 1991 the stand is properly and officially protected as the first, now natural zone of the Šumava National Park and left to spontaneous development. The surrounding forests were

never protected. Since 1995, they have also been part of the natural zone, but spruces attacked by bark beetle are still felled.

### **Mycological research**

The locality was intensively studied in 2021–2023 by 1–3 researchers per day for a total of 28 days, namely by Jan Holec (JH), Petr Zehnálek (PZ), Bára Kučerová (BK) and Markéta Šandová (MŠ). The visits covered the whole vegetation season from the snow melting in spring to the first snowfall in late autumn:

2021: 15–16 Jun JH, 9–10 Aug JH, 6–7 Sep JH with invited mycologists M. Beran and M. Kříž, 19 Oct JH, 9 Nov JH+PZ+MŠ, 15–16 Nov JH.

2022: 12 Apr JH, 10 May JH+PZ, 16–17 Jun JH, 13 Jul JH, 4 Aug JH, 11 Aug JH, 31 Aug JH+PZ+BK, 14 Sep JH, 29–30 Sep JH, 11 Oct PZ+BK, 26 Oct JH, 22 Nov PZ+BK, 30 Nov JH.

2023: 17 April JH, 25 May JH+PZ with invited student Vojtěch Souček, 15 Aug JH.

All observed macrofungi were recorded and those requiring microscopic study were collected. B. Kučerová participated in the work as part of her stay at the National Museum. She also studied some micromycetes on dead beech wood. Vouchers are kept in the Mycological Department of the National Museum, Prague, Czechia (fungarium PRM). Coordinates of collections were measured using hand-held Garmin GPSmap 60CSx device or ordinary mobile phones. The coordinates are not listed in this paper but are written on fungarium labels and can be provided to serious interested parties upon request.

Some records were obtained during a detailed monitoring of fungi (four inspections per year: spring, summer, autumn, late autumn) on fallen trunks of *Picea abies* (12 trunks), *Abies alba* (6) and *Fagus sylvatica* (5). Data from *Picea* and *Abies* trunks has already been evaluated separately by statistical methods (HOLEC et al. 2024) using exactly the same approach like in previous studies of J. Holec from Boubínský prales virgin forest (HOLEC & KUČERA 2020, HOLEC et al. 2020, 2022a). For characteristics of the monitored *Fagus* trunks, see Electronic Supplement A. Monitoring of their fungi was done in 2022 on 17 Jun, 11 Aug, 30 Sep–1 Oct, and 30 Nov.

In order to make the list of fungi as complete as possible, we also added records of species from the years 1997–2006 not found in period 2021–2023. In the old period, Zámecký les was visited 12× by J. Holec (sometimes together with Z. Pouzar) and only the more conspicuous species were recorded. The dates of the visits were as follows: 1997: 16 and 19 Jun, 16 Oct; 1998: 8 Jul, 21 Sep, 21 Oct; 1999: 22 Sep; 2001: 6 Jun; 2002: 17 Jul; 2004: 7 Jun; 2006: 20 Apr, 10 May. All records were elaborated as described above.

### **Identification of fungi**

All vouchers were studied microscopically. Corticiaceae s.l. were identified according to BERNICCHIA & GORJÓN (2010) and LARSSON & RYVARDEN (2021) with respect to The Corticiaceae of North Europe by J. Eriksson et al. Other groups of Basidiomycota were identified mainly according to JÜLICH (1984), HANSEN & KNUDSEN (1997), KNUDSEN & VESTERHOLT (2012), RYVARDEN & GILBERTSON (1993, 1994), and RYVARDEN & MELO (2017). For Ascomycota, we mainly used ELLIS & ELLIS (1997), HANSEN & KNUDSEN (2000), SEIFERT et al. (2011), WERGEN (2017, 2018) and LÆSSØE & PETERSEN (2019). Recent monographs of particular genera and species were consulted whenever they existed. Most

collections of polypores were revised by P. Vampola (Smrčná, Czechia). The nomenclature of fungi is mostly taken from the compendia cited above. Species of the genus *Trichoderma* (*T. citrinum*, *T. minutisporum*, *T. viride*) are listed under the name of their teleomorphic stage (*Hypocrea*), which was actually observed.

### Classification of wood decay

Wood decay stages were estimated in accordance with HEILMANN-CLAUSEN (2001) and HOLEC et al. (2015, 2020) as follows: 1 – wood hard, almost impossible to penetrate with a knifepoint; 2 – wood slightly softened, knifepoint penetrates at most a few millimeters; 3 – wood soft, knife penetrates several centimetres, the wood can be pressed with fingers and larger wood parts can be removed with a knife; 4 – wood very soft, knife penetrates several centimetres and wood parts can be separated with fingers; 5 – wood in the form of mash, original trunk shape no more visible.

## RESULTS

In period 2021–2023, we found 442 taxa of fungi, mostly macrofungi, but also several microfungi (Appendix 1). Although five of them represent varieties or forms, the vast majority are species, and we will use the term species for simplicity in the following text. They represent 73 ascomycetes and 369 basidiomycetes. The most represented genera were *Mycena* (24), *Russula* (18), *Cortinarius* s.l. (16 species), *Galerina* (11), *Lactarius* (10), *Pholiota* (9), *Botryobasidium* (8), *Oligoporus* s.l. (8), *Hyphoderma* (7), *Psathyrella* (7), *Amanita* (6), and *Pluteus* (6).

Ecologically, the predominant group was lignicolous fungi (301 species = 68% of the total number of species) followed by mycorrhizal fungi (92 = 21%) and terrestrial saprotrophs (30 = 7%). Other groups were present only in a minority (19 = 4%), namely fungicolous, muscicolous, strobilicolous fungi and species growing on slime moulds. Lignicolous fungi were mainly represented by saprotrophic species of corticioids and polypores, but also pyrenomycetes, discomycetes, agarics and heterobasidiomycetes. Parasites are infrequent but important, because they contribute to the weakening and subsequent uprooting or breakage of living, half-dead or dead trees. On living, semi-living or freshly fallen trees, we observed especially *Bondarzewia mesenterica*, *Hericium flagellum* (*Abies*), *Hypholoma fasciculare*, *Pholiota squarrosa*, *Fomitopsis pinicola* (*Picea*), *Sparassis brevipes* f. *nemecii* (*Abies*, *Picea*), *Ustulina deusta*, *Fomes fomentarius*, and *Pholiota adiposa* (*Fagus*).

Among the species found, there is a relatively large percentage of those included in the Czech red lists (Appendix 1). According to the older version of the list (HOLEC & BERAN 2006), there are 47 species, according to the newer version (ZÍBAROVÁ et al. 2024) 67 species (= 15% of the total number of species). According to the newer, much more refined version, 27 species are actually threatened (categories CR, EN, VU), while 29 are still only potentially threatened (NT) and 11 are yet to be evaluated (DD) (Table 1).

Two species currently protected by law in Czechia (ANTONÍN & BIEBEROVÁ 1995) were found, namely *Camarops tubulina* and *Ascotremella faginea*. Of the fungi proposed to be added to the list of protected species (DVOŘÁK & HROUDA 2020) in a future amendment (which has not yet taken place), the following were found: *Gymnopilus bellulus*, *Lactarius albocarneus*, *Phellinus nigrolimitatus*, *Pholiota squarrosoides*, *Vibrissea truncorum*.

**Table 1.** Survey of red list species in Zámecký les based on new version of the Czech red list (ZIBAROVÁ et al. 2024). For details on fungal names and records data see Electronic Supplement B.

<b>Red list category/Name</b>	
<b>CR</b>	
<i>Baeospora myriadophylla</i> (Fig. 3)	<i>Hohenbuehelia josserandii</i>
<i>Cyphella digitalis</i> (Fig. 4)	
<b>EN</b>	
<i>Bulgariella pulla</i>	<i>Psathyrella rostellata</i>
<i>Clitocybula lacerata</i>	<i>Rigidoporus crocatus</i>
<i>Graddonina coracina</i>	<i>Skeletocutis stellae</i>
<i>Hyphoderma capitatum</i>	<i>Steccherinum gracile</i>
<i>Panellus violaceofulvus</i> (Fig. 5)	
<b>VU</b>	
<i>Botryobasidium ellipsosporum</i>	<i>Lactarius albocarneus</i>
<i>Cortinarius malicorius</i>	<i>Mycena fagetorum</i>
<i>Cystostereum murrayi</i>	<i>Mycena laevigata</i>
<i>Gymnopilus bellulus</i>	<i>Phellinus nigrolimitatus</i>
<i>Gymnopus fagiphilus</i> (Fig. 6)	<i>Pholiota subochracea</i>
<i>Hericium flagellum</i>	<i>Russula albonigra</i>
<i>Hydropus marginellus</i>	<i>Tectella patellaris</i> (Fig. 7)
<i>Kneiffiella cineracea</i>	
<b>NT</b>	
<i>Antrodiella citrinella</i>	<i>Holwaya mucida</i>
<i>Ascotremella faginea</i>	<i>Hymenochaete cruenta</i>
<i>Bondarzewia mesenterica</i> (Fig. 8)	<i>Mycoacia nothofagi</i>
<i>Botryobasidium medium</i>	<i>Oligoporus undosus</i>
<i>Callistosporium pinicola</i>	<i>Phellinus chrysoloma</i>
<i>Camarops tubulina</i>	<i>Phellinus viticola</i>
<i>Ceriporia excelsa</i>	<i>Phleogena faginea</i>
<i>Ceriporiopsis resinascens</i>	<i>Pholiota squarrosoides</i>
<i>Cortinarius evernius</i>	<i>Russula curtipes</i>
<i>Cortinarius rubellus</i>	<i>Sparassis brevipes</i> f. <i>nemecii</i>
<i>Cortinarius subpurpurascens</i>	<i>Tatraea dumbirensis</i>
<i>Dentipellis fragilis</i>	<i>Tricholoma lascivum</i>
<i>Flammulaster limulatus</i>	<i>Tubulicrinis strangulatus</i>
<i>Galerina stordalii</i>	<i>Vibrissea truncorum</i>
<i>Globulicium hiemale</i>	
<b>DD</b>	
<i>Amylokenasma grisellum</i>	<i>Oxyporus ravidus</i>
<i>Cerinomyces aeneus</i>	<i>Peniophorella guttulifera</i>
<i>Ditiola haasii</i>	<i>Protoacia delicata</i>
<i>Helicogloea dryina</i>	<i>Trechispora minima</i>
<i>Hypochnicium subrigescens</i>	<i>Trechispora mollusca</i>
<i>Kneiffiella floccosa</i>	



**Fig. 3.** *Baeospora myriadophylla* (PRM 957179) on fallen decaying trunk of *Picea abies*. Photo: J. Holec. Critically endangered species in Czechia (ZÍBAROVÁ et al. 2024).



**Fig. 4.** *Cyphella digitalis* (PRM 956951), fallen trunk of *Abies alba*, on branch sticking out into the air. Photo: J. Holec. Critically endangered species in Czechia (ZÍBAROVÁ et al. 2024).



**Fig. 5.** *Panellus violaceofulvus*, fallen trunk of *Abies alba*, on branch sticking out into the air. Photo: J. Holec. Endangered species in Czechia (ZÍBAROVÁ et al. 2024).



**Fig. 6.** *Gymnopus fagiphilus* (PRM 957155) in fallen leaves of *Fagus sylvatica*. Photo: J. Holec. Vulnerable species in Czechia (ZÍBAROVÁ et al. 2024).



**Fig. 7.** *Tectella patellaris* (PRM 959047) on fallen branch of *Fagus sylvatica*. Photo: J. Holec. Vulnerable species in Czechia (ZÍBAROVÁ et al. 2024).



**Fig. 8.** *Bondarzewia mesenterica*, parasite on roots of *Abies alba*. Photo: J. Holec. Near threatened species in Czechia (ZÍBAROVÁ et al. 2024).

In Zámecký les, representing habitat 9130 of the European Union Natura 2000 network (*Asperulo-Fagetum* beech forests, see CHYTRÝ et al. 2010), 45 of the 121 species evaluated as indicators of this habitat (HOFMEISTER & HOŠEK 2016) were found (Appendix 1). Many of them belong to rare (Rar), diagnostic (Dg) or higher habitat quality indicating species (Nat) in the sense of this methodology (HOFMEISTER & HOŠEK 2016). Based on evaluation principles summarized e.g. in HOLEC et al. (2017), the *Asperulo-Fagetum* beech forests in Zámecký les possess high quality.

## DISCUSSION

### Species richness

Number of fungal species found in Zámecký les in the period 2021–2023, namely 442, is quite large for an area of only 8 hectares. If we add older data from 1997–2006 (see Material and Methods and Electronic Supplement C), a total of 465 species are known from the site. This number is due not only to the species richness of the site itself, but also to the high intensity of our research, which included not only frequent and all-season traditional field trips, but also detailed monitoring of selected fallen trunks of all dominant tree species on the site (HOLEC et al. 2024: *Picea*, *Abies*; this study: *Fagus*). This made it possible to catch a number of inconspicuous species, for example corticioids, heterobasidiomycetes, tiny agarics and discomycetes. This can be clearly seen from Table 2, where comparably large reserves (Milešický prales, Hojná Voda) have roughly two times smaller number of species (226, 253), but for a much smaller number of visits and without monitoring the inconspicuous species. If we confront our results with the best-preserved comparable locality at all, i.e. with the Boubínský prales virgin forest (HOLEC et al. 2015), then it can be seen that the species diversity of Zámecký les is smaller, even in a situation where the results of detailed monitoring on fallen trunks of *Picea* and *Abies* (HOLEC & KUČERA 2020, HOLEC et al. 2020, 2022a) are not taken into account for the Boubínský prales (Table 2). However, in this case it is also due to the roughly six times larger area of the core part of Boubínský prales and its much greater degree of naturalness which provides the fungi with a greater quantity and diversity of microhabitats and substrates (for importance of these factors see e.g. ABREGO & SALCEDO 2013, DVOŘÁK et al. 2017). The big fungal species pool of this large locality is also important (HOLEC et al. 2015).

The species richness of Zámecký les is clearly visible even when compared to another site six times larger, Zátoňská hora (Table 2), which is also richer in ravine forest habitat hosting additional species compared to mountain mixed forest. Even so, the number of species found in Zámecký les is higher. It should be added, however, that on Zátoňská hora, inconspicuous species of fungi such as corticioids and discomycetes were not studied in detail, and the number of study visits was significantly less.

The locality of predominant ravine forests (containing *Fagus*, *Picea* and *Abies* in its tree layer), Medvědice natural forest having area comparable with Zámecký les (Table 2), is home to 323 lignicolous species (including older data). If we add older data (Electronic Supplement C) to recent results from Zámecký les (Electronic Supplement B), the total number of lignicolous species is 313, i.e. very similar. At Medvědice (a site considered to be one of the mycologically richest old-growth forests of Czechia, BĚŤÁK 2018), a significant percentage of lignicolous species inhabit trees that do not occur in Zámecký les, especially *Ulmus glabra*,

**Table 2.** Comparison of fungal diversity in the mycologically studied localities of the mountain mixed forest (*Fagus*, *Picea*, *Abies*) in the Šumava Mts. and the Novohradské hory Mts. The locality Zátoňská hora is also included, which hosts ravine forests in addition to the mixed forest. The Medvědice locality is dominated by ravine forests with *Acer* and *Ulmus*, but *Fagus*, *Picea* and *Abies* are also abundantly represented.

Locality	Study	Period	No. of visits	Area (ha)	Elevation (m)	Species (indicated period)	Species total (with older data)	Red List species (HOLEC & BERAN 2006) <sup>C</sup> in indicated period	Threatened species (CR, EN, VU)
<b>Zámecký les<sup>A</sup></b> (Šumava Mts.)	This study	2021–2023	28	8.0	770–825	442	465	47	31
<b>Milešický prales</b> nature reserve (Šumava Mts.)	LEPŠOVÁ (2021)	2018–2021	8	9.9	1075–1 125	226	297	29	18
<b>Boubínský prales</b> national nature reserve <sup>B</sup> , core area: segment BP1 (Šumava Mts.)	HOLEC et al. (2015)	2013–2014	39	46.7	925–1 110	503	n.e.	73	53
<b>Hojná Voda</b> national nature monument (Novohradské hory Mts.)	BERAN (2005)	2004–2005	12	9.1	792–885	253	n.e.	n.e.	n.e.
<b>Zátoňská hora</b> nature reserve (Šumava Mts.)	HOLEC & KŘÍŽ (2014)	2014	11	49.3	869–1034	382	n.e.	49	32
<b>Medvědice</b> on Mt. Stožec (Šumava Mts.), natural zone of the Šumava National Park	BĚTÁK (2018)	2018	12	14.3 <sup>D</sup>	850–970	282 <sup>E</sup>	323 <sup>E</sup>	36 <sup>E</sup>	25 <sup>E</sup>

n.e. – not evaluated

<sup>A</sup> data from monitored trunks (HOLEC et al. 2024) are included

<sup>B</sup> data from monitored trunks (HOLEC & KUČERA 2020, HOLEC et al. 2020, 2022a) are not included

<sup>C</sup> old version of the red list (HOLEC & BERAN 2006) is used as number of red list species according to the new version (ZÍBAROVÁ et al. 2024) is logically not given in works before 2022

<sup>D</sup> not given in BĚTÁK (2018) but derived from map of naturalness at <https://pralesy.cz/44090-np-sumava-stozecka-skala-medvedice>

<sup>E</sup> only lignicolous species

but also *Acer platanoides*, *Tilia cordata*, *Salix* spp. This fact further confirms the high diversity of lignicolous fungi in Zámecký les, where they mainly occur only on *Picea*, *Abies* and *Fagus*. It is clear that for studies done in different years and with different intensity regarding the inclusion of different groups of fungi, it is difficult to compare the total number of species found. The representation of red list species has a greater informative value. It is discussed in a separate section (see below).

### **Ecological groups**

In Zámecký les, the dominant group are wood-inhabiting (lignicolous) fungi, which represent 68% of all macromycete species in the locality. This well reflects the large supply of dead wood represented mainly by rotting trunks of large spruces and firs in all decay stages. Terrestrial fungi are much less represented (mycorrhizal: 21%, terrestrial saprotrophs: 7%). Although these percentages agree quite well with the ratios found in Boubínský prales (HOLEC et al. 2015) and Milešický prales (LEPŠOVÁ 2021), it must be added that the fructification of terrestrial fungi was not optimal in Zámecký les in any year of the study. The years 2021–2023 were quite dry and the rainfall was rarely abundant enough to fall through the dense canopy of the trees and then flow to soil through the thick layer of fallen beech leaves on the ground. As a result, both the litter and the soil were mostly very dry and did not allow greater fructification of terrestrial fungi. We believe that under optimal conditions, especially during autumn, a number of other terrestrial species will still be found on the site, which are most likely present hidden in the form of non-fructifying mycelia.

### **Threatened and rare species**

The described differences between the localities are even more striking if we evaluate them in terms of the representation of red list fungi, i.e. really endangered, rare and potentially endangered species (using older version of the red list, HOLEC & BERAN 2006, for reasons of comparability). Their presence is generally taken as an indicator of the natural scientific value of specific locations. From this point of view, the Boubínský prales (represented here by its core area) is clearly the most valuable, hosting 73 red list species, of which 53 are really threatened (Table 2). Zámecký les is the second most valuable after it (47 and 31 species, respectively), while Milešický prales is much poorer (Table 2). This comparison shows that Zámecký les is very valuable both for its fungal species richness (see previous paragraph) and value of its funga. This is clearly visible even when compared with a site six times larger, Zátoňská hora (Table 2), which is also richer in the habitat of the ravine forest hosting additional species compared to the mountain mixed forest. Nevertheless, the number of red list species is almost the same at both sites. Even this comparison shows how valuable the funga of Zámecký les is.

If we use the new version of the red list (ZÍBAROVÁ et al. 2024) for evaluation, which is based on much better substantiated data, there are actually a little less threatened species in Zámecký les (CR, EN, VU: 29), but the number of potentially endangered species (NT, DD) is relatively large. This shows that the locality is valuable, but not quite the most valuable. This fact is best seen not by which valuable species are present (Table 1), but which species are absent compared to the Boubínský prales (HOLEC et al. 2015, HOLEC 2019, BĚŤÁK 2020, HOLEC & KUČERA 2020, HOLEC et al. 2020, 2022a, KOLÉNYOVÁ et al. 2022). Boubínský prales hosts the following rare and habitat-specific fungi that are not known in Zámecký les:

On wood of *Fagus*: *Antrodiella mentschulensis*, *A. serpula*, *Candelabrochaete septocystidia*, *Ceriporiopsis gilvescens*, *Climacodon septentrionalis*, *Crustomyces subabruptus*, *Entoloma placidum*, *Exidia thuretiana*, *Gloeohypochnicium analogum*, *Hericium cirrhatum*, *H. coralloides*, *Hohenbuehelia auriscalpium*, *Ischnoderma resinosum*, *Junghuhnia fimbriatella*, *Mycena arcangeliana*, *M. renati*, *M. romagnesiana*, *Nemania atropurpurea*, *Pluteus chrysophaeus*, *P. insidiosus*, *P. podospileus*, *P. thomsonii*, *P. umbrosus*, *Porothelium fimbriatum*, *Trichocybe puberula*.

On wood of *Abies*: *Clavulicium macounii*, *Clitocybula familia*, *Gyrophanopsis polonensis*, *Kneiffiella altaica*, *Phellinus pouzarii*, *Phlebia cremeoalutacea*, *Pseudoplectania melaena*, *Skeletocutis cummata*.

On wood of *Picea*: *Amylocystis lapponica*, *Antrodia cretacea*, *A. piceata*, *Athelopsis subinconspicua*, *Dentipratulum bialoviesense*, *Hyphoderma involutum*, *Jaapia argillacea*, *Laetiporus montanus*, *Laurilia sulcata*, *Lobulicium occultum*, *Oligoporus folliculocystidiatus* (generally known also from wood of deciduous trees), *Phellinus ferrugineofuscus*, *Scotomyces subviolaceus*, *Scytinostromella heterogenea* (generally known also from other conifers and deciduous trees), *Skeletocutis delicata*, *Sphaerobasidium minutum*, *Suillosporium cystidiatum* (generally known also from other conifers), *Tubulicrinis globisporus*.

Both on wood of *Picea* and *Abies*: *Chrysomphalina chrysophylla*, *C. grossula*, *Cystoderma subvinaceum*, *Fomitopsis rosea*, *Galerina pruinatipes*, *Hydropus atramentosus*, *Jahnoporus hirtus*, *Junghuhnia collabens*, *Kneiffiella curvispora*, *Mycena clavata*, *Phlebia subulata*, *Resupinatus striatulus*, *Skeletocutis odora*, *Tricholomopsis flammula*.

On wood of *Picea*, *Abies*, *Fagus*: *Arrhenia epichysium*, *Ionomidotis irregularis*, *Multiclavula mucida*, *Ossicaulis lachnopus*, *Pseudorhizina sphaerospora*, *Rhodonia placenta*.

Mycorrhizal species: *Cortinarius violaceus* subsp. *hercynicus*, *Hygrophorus eburneus*, *H. abieticola* (= *H. pudorinus*), *Inocybe hystrix*, *Lactarius fluens*, *L. salmonicolor*, *L. romagnesii*, *L. ruginosus*, *Russula cavipes*, *R. romellii*, *R. violeipes*, *Tricholoma sciodes*.

Terrestrial saprotrophs: *Gymnopus fuscopurpureus*, *Mycena crocata*, *M. pelianthina*.

It must be honestly said that such an assemblage of rare species in the Boubínský prales is unique even from a pan-European point of view (HOLEC et al. 2015). This model locality shows how a well-preserved mountain mixed forest should ideally look in terms of the representation of rare and old-growth forests preferring fungi.

On the German side of the Bohemian Forest, there is a locality of mycological value between Boubínský prales and Zámecký les. It is so called virgin forest area (Urwaldgebiet) Mittelsteighütte, a former nature reserve, now a part of the Bavarian Forest National Park. It is a very valuable natural forest of the similar tree composition and elevation like Zámecký les, located only 3.5 km away on the same-oriented slope in the Grosse Deffernik stream valley. Its rich and rare mycobiota is well known (NUSS 1999, DGfM 2023). As shown by HOLEC et al. (2024), the „species of special interest“ (SSI, see e.g. ÓDOR et al. 2006), i.e. red list species, generally rare species and fungi preferring old-growth forests, are less represented in Mittelsteighütte than in Boubínský prales, but more represented in Mittelsteighütte than in Zámecký les. Generally, the fungal occurrence data from all three sites show a perfect match between representation of SSI species and the degree of forest naturalness: the largest representation in the virgin forest (Boubínský prales), the middle one in natural forest (Mittelsteighütte), and the smallest one in the near-natural forest (Zámecký les).

Fungal diversity of the Zámecký les is undoubtedly limited by two main factors: small area (8 ha only) and disrupted forest continuity due to the human interventions during last three centuries (see Forest history in Material and Methods). The importance of both of these factors for the overall diversity of fungi in specific locations is well known (e.g. BÄSSLER et al. 2010, ABREGO & SALCEDO 2013, HOFMEISTER et al. 2015, RUNNEL et al. 2021, MAJDANOVÁ et al. 2023). In Zámecký les, it mainly concerns fungi growing on *Fagus* wood. As shown above, many prominent species of beech wood are absent from the site, which is mainly due to the very small representation of old beech trees, both living and rotting. On the other hand, *Abies* is well represented on the site, both by living and fallen trees. This is reflected in the fact that the most valuable components of the funga of Zámecký les are probably the fir wood fungi. Fallen trunks of *Abies* are very rich in species (HOLEC et al. 2024) and many of the critically endangered (CR) and endangered (EN) fungi occur on fir wood, e.g. *Cyphella digitalis*, *Hohenbuehelia josserandii*, *Panellus violaceofulvus* and *Steccherinum gracile*.

### **How the local funga should be preserved/improved**

It has already been said that the main problem of the Zámecký les is its small area. This also includes a limited number of living and dead trees, which are partners of mycorrhizal fungi and source of substrate for wood-inhabiting fungi, which is the species-richest group on the site. Even the diversity of different microhabitats is small due to the monotonous geomorphology and great homogeneity of the vegetation. In this situation it is crucial that all living and dead trees are left in place. In the future, each of them can become a substrate of one of the rare and endangered species of fungi, which can reach them either from the surrounding trees (being apparently the most common way in natural stands, see LINDBLAD et al. 1998, JÖNSSON et al. 2008, NORROS et al. 2012), or by long-distance spread of spores from more distant refugia, in this case especially from the nearby Mittelsteighütte reserve representing a rich pool of valuable species (NUSS 1999, DGfM 2023, HOLEC et al. 2024). Leaving dead wood in place is currently well ensured by including Zámecký les in the natural zone of the Šumava National Park. It will, however, be necessary to persevere even if there is a large spontaneous disintegration of the stand as a result of storms or a bark beetle attack. In this case, there is no danger of the disappearing of the stand, because younger individuals of all the main tree species are present in the locality. On the contrary, there would be a greater differentiation of the shrub and tree layers, which could support the spread of fungi that are currently absent from the site.

The second condition is the preservation of forests around Zámecký les, even if they are stands influenced by man or artificially created (spruce monocultures). Although some of them are currently dying due to drought and bark beetles, the worst thing would be to cut them down completely. Even in their dead form, they maintain a wetter microclimate around the site and prevent the drying effect of winds. In the long term, as a result of natural succession, they will be able to restore themselves to a form that will be closer to nature and will fulfill the function of the protective forests around the Zámecký les. We therefore appeal to all interested parties, especially the administration of the Šumava National Park, to prevent the felling of the stands surrounding Zámecký les.

## CONCLUSION

The obtained results clearly show that Zámecký les is a mycologically rich and valuable locality, especially for the wood-inhabiting fungi of natural mountain forests. In the northern half of the Šumava National Park, we do not know of any such valuable locality of this habitat. Even in the overall view, it is one of the most valuable localities not only of the national park, but of the entire Bohemian Forest, both on the Czech and German sides. The value of the location stands out well, for example, in comparison with one of the two oldest Czech forest reserves, protected in the Novohradské hory Mts. since 1838, specifically with the Hojná Voda national nature monument. The funga of Zámecký les is richer in species and has a greater representation of red list species. In order to preserve both the forest stand and its valuable funga, it will be necessary to consistently apply a no-intervention regime both on the site itself and in its surroundings.

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**Appendix 1.** Survey of fungi found in Zámecký les in the years 2021–2023 with characterization of their ecology, red list status and habitat indicator value. For details on fungal names, identification and records data see Electronic Supplement B.

Ecology. Fun: fungicolous, LF: lichenized fungus, Lig: lignicolous, Mus: muscicolous, Myc: mycorrhizal symbiont, SliM: on slime mould, Str: strobilicolous, Ter: terrestrial saprotroph, Ter/Myc: usually considered to be terrestrial but ectomycorrhiza has been published for *Rhodocollybia butyracea*, see Mleczko P: (2004) *Rhodocollybia butyracea* (Bull.: Fr.) Lennox (forma *butyracea*) + *Pinus sylvestris* L., Descr. Ectomyc. 7/8: 101–108; and a similar status is to be expected for other species of *Rhodocollybia*, which are therefore labelled Ter/Myc?. Except for mycorrhizal fungi, the classifications is based on real situation during our survey, i.e. where the fungus was found.

Red List categories (<https://www.iucnredlist.org/>). DD: data deficient, CR: critically endangered, EN: endangered, NT: near threatened, VU: vulnerable.

Indicators (HOFMEISTER & HOŠEK 2016). +: included in the list (without further specification), Dg: diagnostic species of the given habitat, Konst: constant species (should be present in given habitat), Nat: species indicating higher habitat quality, Rar: generally rare species.

Name	Ecology	Red List 2006 (HOLEC & BERAN 2006)	Red List 2024 (ZÍBAROVÁ et al. 2024)	Indicators of habitat 9130 <i>Asperulo-Fagetum</i> (HOFMEISTER & HOŠEK 2016)
<i>Agrocybe praecox</i>	Lig			
<i>Aleurodiscus amorphus</i>	Lig			
<i>Alutaceodontia alutacea</i>	Lig			
<i>Amanita citrina</i>	Myc			
<i>Amanita fulva</i>	Myc			
<i>Amanita gemmata</i>	Myc			
<i>Amanita rubescens</i>	Myc			
<i>Amanita spissa</i>	Myc			
<i>Amanita submembranacea</i>	Myc	DD		
<i>Ampulloclitocybe clavipes</i>	Ter			
<i>Amylostereum areolatum</i>	Lig			
<i>Amylostereum chailletii</i>	Lig			+
<i>Amyloxenasma grisellum</i>	Lig		DD	
<i>Antrodia serialis</i>	Lig			
<i>Antrodia sinuosa</i>	Lig			
<i>Antrodiella citrinella</i>	Lig	EN	NT	
<i>Antrodiella faginea</i>	Lig			
<i>Armillaria cepistipes</i>	Lig			
<i>Ascocoryne cylichnium</i>	Lig			
<i>Ascocoryne inflata</i>	Lig			
<i>Ascocoryne lilacina</i>	Lig			
<i>Ascocoryne sarcoides</i>	Lig			
<i>Ascotremella faginea</i>	Lig	VU	NT	
<i>Athelia decipiens</i>	Lig			
<i>Athelia epiphylla</i>	Lig			
<i>Athelia neuhoffii</i>	Lig			

Appendix 1. Continued.

Name	Ecology	Red List 2006 (HOLEC & BERAN 2006)	Red List 2024 (ZÍBAROVÁ et al. 2024)	Indicators of habitat 9130 <i>Asperulo-Fagetum</i> (HOFMEISTER & HOŠEK 2016)
<i>Baeospora myriadophylla</i>	Lig	CR	CR	Rar, Nat
<i>Basidiodendron caesiocinereum</i>	Lig			
<i>Basidiodendron radians</i>	Lig			
<i>Bertia moriformis</i>	Lig			
<i>Bjerkandera adusta</i>	Lig			
<i>Bolbitius reticulatus</i>	Lig			
<i>Boletus edulis</i>	Myc			
<i>Bondarzewia mesenterica</i>	Lig		NT	+
<i>Botryobasidium aureum</i>	Lig			
<i>Botryobasidium capitatum</i>	Lig			
<i>Botryobasidium ellipso sporum</i>	Lig	VU	VU	
<i>Botryobasidium intertextum</i>	Lig	NT		
<i>Botryobasidium isabellinum</i>	Lig			
<i>Botryobasidium medium</i>	Lig	EN	NT	
<i>Botryobasidium obtusisporum</i>	Lig			
<i>Botryobasidium subcoronatum</i>	Lig			
<i>Bulgariella pulla</i>	Lig		EN	
<i>Callistosporium pinicola</i>	Lig		NT	
<i>Caloboletus calopus</i>	Myc			
<i>Calocera cornea</i>	Lig			
<i>Calocera viscosa</i>	Lig			
<i>Calycina citrina</i>	Lig			
<i>Camarops tubulina</i>	Lig	NT	NT	+
<i>Cantharellus amethysteus</i>	Myc			
<i>Cantharellus cibarius</i>	Myc			
<i>Cantharellus friesii</i>	Myc	VU		Dg
<i>Catenularia cupulifera</i>	Lig			
<i>Ceraceomyces serpens</i>	Lig			
<i>Cerinomyces aeneus</i>	Lig		DD	
<i>Ceriporia excelsa</i>	Lig		NT	
<i>Ceriporia viridans</i>	Lig			
<i>Ceriporiopsis mucida</i>	Lig			
<i>Ceriporiopsis resinascens</i>	Lig	VU	NT	
<i>Chaetosphaeria innumera</i>	Lig			
<i>Chondrostereum purpureum</i>	Lig			
<i>Chromelosporium fulvum</i>	Lig			
<i>Ciboria rufofusca</i>	Str			

Appendix 1. Continued.

Name	Ecology	Red List 2006 (HOLEC & BERAN 2006)	Red List 2024 (ZÍBAROVÁ et al. 2024)	Indicators of habitat 9130 <i>Asperulo-Fagetum</i> (HOFMEISTER & HOŠEK 2016)
<i>Clavulina coralloides</i>	Myc			
<i>Clavulina rugosa</i>	Myc			
<i>Climacocystis borealis</i>	Lig			
<i>Clitocybe ditopa</i>	Lig			
<i>Clitocybe odora</i>	Ter			
<i>Clitocybe vibecina</i>	Lig			
<i>Clitocybula lacerata</i>	Lig	EN	EN	Rar, Nat
<i>Clitopilus hobsonii</i> var. <i>daamsii</i>	Lig			
<i>Collybia cookei</i>	Fun			
<i>Collybia tuberosa</i>	Fun			
<i>Conferticium ochraceum</i>	Lig			
<i>Coniophora arida</i>	Lig			
<i>Coniophora olivacea</i>	Lig			
<i>Coniophora puteana</i>	Lig			
<i>Coprinellus micaceus</i>	Lig			
<i>Cortinarius anomalus</i>	Myc			
<i>Cortinarius bataillei</i>	Myc			
<i>Cortinarius bolaris</i>	Myc			
<i>Cortinarius diasemospermus</i>	Myc			+
<i>Cortinarius evernius</i>	Myc	VU	NT	
<i>Cortinarius flexipes</i>	Myc			
<i>Cortinarius gentilis</i>	Myc			
<i>Cortinarius largus</i>	Myc			
<i>Cortinarius lignicola</i>	Myc			
<i>Cortinarius malicorius</i>	Myc	VU	VU	
<i>Cortinarius rubellus</i>	Myc	VU	NT	
<i>Cortinarius sanguineus</i>	Myc			
<i>Cortinarius semisanguineus</i>	Myc			
<i>Cortinarius sommerfeltii</i>	Myc			
<i>Cortinarius subpurpurascens</i>	Myc		NT	Dg
<i>Cortinarius suillus</i>	Myc			
<i>Cosmospora arxii</i>	Fun			
<i>Craterellus cornucopioides</i>	Myc			Konst
<i>Craterellus tubaeformis</i>	Myc			
<i>Crepidotus applanatus</i>	Lig			
<i>Crepidotus epibryus</i>	Lig			
<i>Crepidotus kubickae</i>	Lig			

Appendix 1. Continued.

Name	Ecology	Red List 2006 (HOLEC & BERAN 2006)	Red List 2024 (ZÍBAROVÁ et al. 2024)	Indicators of habitat 9130 <i>Asperulo-Fagetum</i> (HOFMEISTER & HOŠEK 2016)
<i>Cryptocoryneum condensatum</i>	Lig			
<i>Cudoniella acicularis</i>	Lig			
<i>Cudoniella clavus</i>	Lig	NT		
<i>Cudoniella tenuispora</i>	Lig			
<i>Cylindrobasidium evolvens</i>	Lig			
<i>Cyphella digitalis</i>	Lig		CR	
<i>Cystoderma carcharias</i>	Ter			
<i>Cystoderma jasonis</i>	Ter			
<i>Cystostereum murrayi</i>	Lig	NT	VU	Rar
<i>Dacrymyces stillatus</i>	Lig			
<i>Dasyyscyphella montana</i>	Lig			
<i>Delicatula integrella</i>	Lig			
<i>Dentipellis fragilis</i>	Lig		NT	Dg
<i>Ditiola haasii</i>	Lig		DD	
<i>Durandiella gallica</i>	Lig			
<i>Echinosphaeria canescens</i>	Lig			
<i>Entoloma cetratum</i>	Ter			
<i>Eutypa flavovirens</i>	Lig			
<i>Eutypa spinosa</i>	Lig			
<i>Eutypella quaternata</i>	Lig			
<i>Exidia nigricans</i>	Lig			Konst
<i>Exidia pithya</i>	Lig			
<i>Exidiopsis effusa</i>	Lig			
<i>Exidiopsis umbrina</i>	Lig			
<i>Flammulaster limulatus</i>	Lig	EN	NT	Nat
<i>Fomes fomentarius</i>	Lig			
<i>Fomitopsis pinicola</i>	Lig			
<i>Galerina ampullaceocystis</i>	Lig			
<i>Galerina atkinsoniana</i>	Mus			
<i>Galerina calyptrata</i>	Mus			
<i>Galerina camerina</i>	Lig			
<i>Galerina hypnorum</i>	Mus			
<i>Galerina marginata</i>	Lig			
<i>Galerina mniophila</i>	Mus			
<i>Galerina sideroides</i>	Lig			
<i>Galerina similis</i>	Mus			
<i>Galerina stordalii</i>	Mus		NT	

Appendix 1. Continued.

Name	Ecology	Red List 2006 (HOLEC & BERAN 2006)	Red List 2024 (ZÍBAROVÁ et al. 2024)	Indicators of habitat 9130 <i>Asperulo-Fagetum</i> (HOFMEISTER & HOŠEK 2016)
<i>Galerina triscopa</i>	Lig			
<i>Ganoderma applanatum</i>	Lig			
<i>Globulicium hiemale</i>	Lig	CR	NT	
<i>Gloeophyllum odoratum</i>	Lig			
<i>Graddonia coracina</i>	Lig		EN	
<i>Graphium calicioides</i>	Lig			
<i>Gymnopilus bellulus</i>	Lig	VU	VU	
<i>Gymnopilus penetrans</i>	Lig			
<i>Gymnopilus picreus</i>	Lig			
<i>Gymnopus aquosus</i>	Ter			
<i>Gymnopus confluens</i>	Ter			
<i>Gymnopus fagiphilus</i>	Ter	CR	VU	Dg
<i>Gymnopus peronatus</i>	Ter			
<i>Gyromitra infula</i>	Lig			
<i>Helicogloea dryina</i>	Lig		DD	
<i>Hemimycena substellata</i>	Lig			
<i>Hericium flagellum</i>	Lig	NT	VU	Dg, Rar
<i>Heterobasidion annosum</i>	Lig			
<i>Hohenbuehelia josserandii</i>	Lig		CR	
<i>Holwaya mucida</i>	Lig	EN	NT	
<i>Hydnum ellipsosporum</i>	Myc			
<i>Hydnum repandum</i>	Myc			
<i>Hydnum rufescens</i>	Myc			
<i>Hydropus marginellus</i>	Lig		VU	+
<i>Hygrophoropsis aurantiaca</i>	Lig			
<i>Hygrophorus olivaceoalbus</i>	Myc			
<i>Hygrophorus penarius</i>	Myc			Dg
<i>Hymenochaete cruenta</i>	Lig	NT	NT	+
<i>Hymenoscyphus caudatus</i>	Ter			
<i>Hymenoscyphus lutescens</i>	Str			
<i>Hyphoderma argillaceum</i>	Lig			
<i>Hyphoderma capitatum</i>	Lig	EN	EN	
<i>Hyphoderma cremeoalbum</i>	Lig			
<i>Hyphoderma medioburiense</i>	Lig			
<i>Hyphoderma obtusifforme</i>	Lig			
<i>Hyphoderma roseocremeum</i>	Lig			
<i>Hyphoderma setigerum</i>	Lig			

Appendix 1. Continued.

Name	Ecology	Red List 2006 (HOLEC & BERAN 2006)	Red List 2024 (ZÍBAROVÁ et al. 2024)	Indicators of habitat 9130 <i>Asperulo-Fagetum</i> (HOFMEISTER & HOŠEK 2016)
<i>Hyphodiscus otanii</i>	Lig			
<i>Hyphodontia abieticola</i>	Lig			
<i>Hyphodontia alutaria</i>	Lig			
<i>Hyphodontia pallidula</i>	Lig			
<i>Hypholoma capnoides</i>	Lig			
<i>Hypholoma fasciculare</i>	Lig			
<i>Hypholoma lateritium</i>	Lig			
<i>Hypholoma marginatum</i>	Lig			
<i>Hypholoma subviride</i>	Lig			
<i>Hypocrea citrina</i>	Lig			
<i>Hypocrea minutispora</i>	Lig			
<i>Hypocrea rufa</i>	Lig			
<i>Hypochniciellum ovoideum</i>	Lig			
<i>Hypochnicium albostramineum</i>	Lig			
<i>Hypochnicium erikssonii</i>	Lig			
<i>Hypochnicium subrigescens</i>	Lig		DD	
<i>Hypoxylon cohaerens</i>	Lig			
<i>Hypoxylon fragiforme</i>	Lig			
<i>Hypoxylon rubiginosum</i>	Lig			
<i>Imleria badia</i>	Myc			
<i>Immotthia atrograna</i>	Fun			
<i>Inocybe assimilata</i>	Myc			
<i>Inocybe napipes</i>	Myc			
<i>Inocybe petiginosa</i>	Myc			
<i>Inocybe praetervisa</i>	Myc			
<i>Inocybe soluta</i>	Myc			
<i>Inocybe virgatula</i>	Myc			
<i>Inonotus hastifer</i>	Lig			+
<i>Ischnoderma benzoinum</i>	Lig			
<i>Jaapia ochroleuca</i>	Lig			
<i>Kneiffiella cineracea</i>	Lig		VU	
<i>Kneiffiella floccosa</i>	Lig		DD	
<i>Kuehneromyces mutabilis</i>	Lig			
<i>Laccaria amethystina</i>	Myc			
<i>Laccaria laccata</i>	Myc			
<i>Lachnum virgineum</i>	Lig			
<i>Lactarius albocarneus</i>	Myc	CR	VU	

Appendix 1. Continued.

Name	Ecology	Red List 2006 (HOLEC & BERAN 2006)	Red List 2024 (ZÍBAROVÁ et al. 2024)	Indicators of habitat 9130 <i>Asperulo-Fagetum</i> (HOFMEISTER & HOŠEK 2016)
<i>Lactarius aurantiacus</i>	Myc			
<i>Lactarius blennius</i>	Myc			Konst
<i>Lactarius camphoratus</i>	Myc			
<i>Lactarius helvus</i>	Myc			
<i>Lactarius pallidus</i>	Myc			Dg
<i>Lactarius piperatus</i>	Myc			
<i>Lactarius rufus</i>	Myc			
<i>Lactarius subdulcis</i>	Myc			Konst
<i>Lactarius tabidus</i>	Myc			
<i>Lasiosphaeria glabrata</i>	Lig			
<i>Lasiosphaeria ovina</i>	Lig			
<i>Lasiosphaeria hirsuta</i>	Lig			
<i>Laxitextum bicolor</i>	Lig			+
<i>Lentinellus castoreus</i>	Lig	VU		+
<i>Leotia lubrica</i>	Ter			
<i>Leptodontidium trabinellum</i>	Lig			
<i>Leptosporomyces fuscostratus</i>	Lig			
<i>Leptosporomyces galzinii</i>	Lig			
<i>Leptosporomyces mundus</i>	Lig			
<i>Leratiomyces squamosus</i>	Ter			
<i>Lichenomphalia umbellifera</i>	Lig (LF)			
<i>Lycoperdon perlatum</i>	Lig			
<i>Lycoperdon pyriforme</i>	Lig			
<i>Megacollybia platyphylla</i>	Ter			
<i>Melanomma pulvis-pyrius</i>	Lig			
<i>Melanophyllum haematospermum</i>	Ter	NT		
<i>Melogramma spiniferum</i>	Lig			
<i>Mollisia cinerea</i>	Lig			
<i>Mollisia elegantior</i>	Lig			
<i>Mollisia ligni</i>	Lig			
<i>Mollisia uda</i>	Lig			
<i>Mollisia ventosa</i>	Lig			
<i>Mucidula mucida</i>	Lig			Dg
<i>Mucronella bresadolae</i>	Lig			
<i>Mycena abramsii</i>	Lig			
<i>Mycena amicta</i>	Lig			
<i>Mycena cinerella</i>	Ter			

Appendix 1. Continued.

Name	Ecology	Red List 2006 (HOLEC & BERAN 2006)	Red List 2024 (ZÍBAROVÁ et al. 2024)	Indicators of habitat 9130 <i>Asperulo-Fagetum</i> (HOFMEISTER & HOŠEK 2016)
<i>Mycena epipterygia</i> var. <i>viscosa</i>	Lig			
<i>Mycena erubescens</i>	Lig			
<i>Mycena fagetorum</i>	Ter		VU	Dg
<i>Mycena filopes</i>	Lig			
<i>Mycena flavescens</i>	Ter			
<i>Mycena galericulata</i>	Lig			
<i>Mycena galopus</i>	Lig			
<i>Mycena haematopus</i>	Lig			
<i>Mycena laevigata</i>	Lig	VU	VU	
<i>Mycena maculata</i>	Lig			
<i>Mycena metata</i>	Lig			
<i>Mycena pura</i>	Ter			
<i>Mycena purpureofusca</i>	Lig			
<i>Mycena rubromarginata</i>	Lig			
<i>Mycena sanguinolenta</i>	Ter			
<i>Mycena silvae-nigrae</i>	Lig			
<i>Mycena speirea</i>	Lig			
<i>Mycena stipata</i>	Lig			
<i>Mycena viridimarginata</i>	Lig			
<i>Mycena vitilis</i>	Lig			
<i>Mycena zephrus</i>	Ter			
<i>Mycetinis alliaceus</i>	Lig			Konst
<i>Mycoacia nothofagi</i>	Lig		NT	Rar
<i>Nectriopsis violacea</i>	SliM			
<i>Nematogonum ferrugineum</i>	Fun			
<i>Neoboletus luridiformis</i>	Myc			
<i>Neobulgaria pura</i>	Lig	NT		Dg
<i>Neobulgaria pura</i> var. <i>foliacea</i>	Lig			
<i>Neodasyscypha cerina</i>	Lig			
<i>Neolentinus adhaerens</i>	Lig			
<i>Neonectria coccinea</i>	Lig			
<i>Neonectria ditissima</i>	Lig			
<i>Oligoporus alni</i>	Lig			
<i>Oligoporus caesius</i>	Lig			
<i>Oligoporus fragilis</i>	Lig			
<i>Oligoporus guttulatus</i>	Lig			
<i>Oligoporus ptychogaster</i>	Lig			

Appendix 1. Continued.

Name	Ecology	Red List 2006 (HOLEC & BERAN 2006)	Red List 2024 (ZÍBAROVÁ et al. 2024)	Indicators of habitat 9130 <i>Asperulo-Fagetum</i> (HOFMEISTER & HOŠEK 2016)
<i>Oligoporus romellii</i>	Lig			
<i>Oligoporus stipticus</i>	Lig			
<i>Oligoporus undosus</i>	Lig	VU	NT	
<i>Orbilina xanthostigma</i>	Lig			
<i>Otidea alutacea</i>	Myc			
<i>Otidea onotica</i>	Myc			
<i>Oxyporus corticola</i>	Lig			
<i>Oxyporus populinus</i>	Lig			
<i>Oxyporus ravidus</i>	Lig		DD	
<i>Panellus mitis</i>	Lig			
<i>Panellus stipticus</i>	Lig			
<i>Panellus violaceofulvus</i>	Lig	CR	EN	Rar
<i>Paxillus involutus</i>	Myc			
<i>Peniophora pithya</i>	Lig			
<i>Peniophorella guttulifera</i>	Lig		DD	
<i>Peniophorella pallida</i>	Lig			
<i>Peniophorella praetermissa</i>	Lig			
<i>Peniophorella pubera</i>	Lig			
<i>Phaeoblastophora resiniae</i>	Lig			
<i>Phaeolus schweinitzii</i>	Lig			
<i>Phallus impudicus</i>	Ter			
<i>Phanerochaete sordida</i>	Lig			
<i>Phanerochaete velutina</i>	Lig			
<i>Phellinus hartigii</i>	Lig			
<i>Phellinus chrysoloma</i>	Lig		NT	
<i>Phellinus nigrolimitatus</i>	Lig	NT	VU	
<i>Phellinus viticola</i>	Lig		NT	
<i>Phellodon melaleucus</i>	Myc			
<i>Phlebia centrifuga</i>	Lig	EN		+
<i>Phlebia radiata</i>	Lig			
<i>Phlebia rufa</i>	Lig			
<i>Phlebia tuberculata</i>	Lig			
<i>Phlebiella vaga</i>	Lig			
<i>Phleogenia faginea</i>	Lig	EN	NT	
<i>Phliota adiposa</i>	Lig			Konst
<i>Phliota flammans</i>	Lig			
<i>Phliota lenta</i>	Ter			

Appendix 1. Continued.

Name	Ecology	Red List 2006 (HOLEC & BERAN 2006)	Red List 2024 (ZÍBAROVÁ et al. 2024)	Indicators of habitat 9130 <i>Asperulo-Fagetum</i> (HOFMEISTER & HOŠEK 2016)
<i>Pholiota scamba</i>	Lig			
<i>Pholiota spumosa</i>	Lig			
<i>Pholiota squarrosa</i>	Lig			
<i>Pholiota squarrosoides</i>	Lig	EN	NT	Dg, Rar, Nat
<i>Pholiota subochracea</i>	Lig	VU	VU	
<i>Pholiota tuberculosa</i>	Lig			
<i>Pholiotina vexans</i>	Ter			
<i>Phyllotopsis nidulans</i>	Lig	NT		
<i>Physisporinus expallescens</i>	Lig			
<i>Physisporinus sanguinolentus</i>	Lig			
<i>Pleurotus ostreatus</i>	Lig			
<i>Pleurotus pulmonarius</i>	Lig			
<i>Plicaturopsis crispa</i>	Lig			
<i>Pluteus atromarginatus</i>	Lig			
<i>Pluteus cervinus</i>	Lig			
<i>Pluteus phlebophorus</i>	Lig	EN		Konst
<i>Pluteus plautus</i>	Lig			
<i>Pluteus pouzarianus</i>	Lig			
<i>Pluteus primus</i>	Lig			
<i>Polycephalomyces tomentosus</i>	SLiM			
<i>Polydesmia pruinosa</i>	Fun			
<i>Polyporus badius</i>	Lig			
<i>Polyporus brumalis</i>	Lig			
<i>Polyporus varius</i>	Lig			
<i>Porphyrellus porphyrosporus</i>	Myc			
<i>Postia cyanescens</i>	Lig			
<i>Protoacia delicata</i>	Lig		DD	
<i>Psathyrella fibrillosa</i>	Ter			
<i>Psathyrella friesii</i>	Ter			
<i>Psathyrella obtusata</i>	Ter			
<i>Psathyrella papyracea</i>	Lig			
<i>Psathyrella piluliformis</i>	Lig			Konst
<i>Psathyrella rostellata</i>	Lig		EN	
<i>Psathyrella spadicea</i>	Ter			
<i>Pseudocraterellus sinuosus</i>	Myc			
<i>Pseudohydnum gelatinosum</i>	Lig			
<i>Pseudospiropes nodosus</i>	Lig			

Appendix 1. Continued.

Name	Ecology	Red List 2006 (HOLEC & BERAN 2006)	Red List 2024 (ZÍBAROVÁ et al. 2024)	Indicators of habitat 9130 <i>Asperulo-Fagetum</i> (HOFMEISTER & HOŠEK 2016)
<i>Pycnoporellus fulgens</i>	Lig	NT		
<i>Resinicium bicolor</i>	Lig			
<i>Resinicium furfuraceum</i>	Lig			
<i>Rhodocollybia butyracea</i> f. <i>asema</i>	Ter/Myc			
<i>Rhodocollybia distorta</i>	Ter/Myc?			
<i>Rhodocollybia maculata</i>	Ter/Myc?			
<i>Rigidoporus crocatus</i>	Lig	EN	EN	Dg, Rar, Nat
<i>Russula acrifolia</i>	Myc			
<i>Russula albonigra</i>	Myc	EN	VU	
<i>Russula amethystina</i>	Myc			
<i>Russula aurora</i>	Myc			+
<i>Russula badia</i>	Myc			
<i>Russula curtipes</i>	Myc	DD	NT	Dg
<i>Russula cyanoxantha</i>	Myc			
<i>Russula densifolia</i>	Myc			
<i>Russula emetica</i>	Myc			
<i>Russula fellea</i>	Myc			+
<i>Russula fragilis</i>	Myc			
<i>Russula laurocerasi</i>	Myc			
<i>Russula nigricans</i>	Myc			
<i>Russula nobilis</i>	Myc			Konst
<i>Russula ochroleuca</i>	Myc			
<i>Russula puellula</i>	Myc	DD		Dg
<i>Russula turci</i>	Myc			
<i>Russula vesca</i>	Myc			
<i>Rutstroemia elatina</i>	Lig			
<i>Sarcomyxa serotina</i>	Lig			
<i>Scleroderma citrinum</i>	Myc			
<i>Scutellinia scutellata</i>	Lig			
<i>Serpula himantoides</i>	Lig			
<i>Schizophyllum commune</i>	Lig			
<i>Schizopora radula</i>	Lig			
<i>Simocybe sumptuosa</i>	Lig			
<i>Sistotrema binucleosporum</i>	Lig			
<i>Sistotrema brinkmannii</i>	Lig			
<i>Sistotrema coroniferum</i>	Lig			
<i>Skeletocutis semipileata</i>	Lig			

Appendix 1. Continued.

Name	Ecology	Red List 2006 (HOLEC & BERAN 2006)	Red List 2024 (ZÍBAROVÁ et al. 2024)	Indicators of habitat 9130 <i>Asperulo-Fagetum</i> (HOFMEISTER & HOŠEK 2016)
<i>Skeletocutis stellae</i>	Lig	CR	EN	
<i>Spadicoides grovei</i>	Lig			
<i>Sparassis brevipes</i> f. <i>nemecii</i>	Lig	EN	NT	
<i>Steccherinum gracile</i>	Lig		EN	
<i>Steccherinum ochraceum</i>	Lig			
<i>Stereum hirsutum</i>	Lig			
<i>Stereum rugosum</i>	Lig			
<i>Stereum sanguinolentum</i>	Lig			
<i>Strobilomyces strobilaceus</i>	Myc			
<i>Strobilurus esculentus</i>	Str			
<i>Tatraea dumbirensis</i>	Lig		NT	Rar
<i>Tectella patellaris</i>	Lig		VU	
<i>Tomentella faginea</i>	Myc			
<i>Tomentella sublilacina</i>	Myc			
<i>Trametes ochracea</i>	Lig			
<i>Trametes versicolor</i>	Lig			
<i>Trechispora microspora</i>	Lig			
<i>Trechispora minima</i>	Lig		DD	
<i>Trechispora mollusca</i>	Lig	DD	DD	
<i>Tremella encephala</i>	Fun			
<i>Tremella globispora</i>	Fun			
<i>Trichaptum abietinum</i>	Lig			
<i>Tricholoma fulvum</i>	Myc			
<i>Tricholoma lascivum</i>	Myc		NT	Dg, Rar, Nat
<i>Tricholoma saponaceum</i>	Myc			
<i>Tricholoma ustale</i>	Myc			Dg
<i>Tricholomopsis decora</i>	Lig			
<i>Tubulicrinis strangulatus</i>	Lig		NT	
<i>Tulasnella albida</i>	Lig			
<i>Tulasnella violea</i>	Lig			
<i>Tylopilus felleus</i>	Myc			
<i>Tyromyces chioneus</i>	Lig			
<i>Ustulina deusta</i>	Lig			
<i>Vesiculomyces citrinus</i>	Lig			
<i>Vibrissea truncorum</i>	Lig	NT	NT	
<i>Xerocomellus chrysenteron</i>	Myc			
<i>Xerocomellus pruinatus</i>	Myc			+

Appendix 1. Continued.

Name	Ecology	Red List 2006 (HOLEC & BERAN 2006)	Red List 2024 (ZÍBAROVÁ et al. 2024)	Indicators of habitat 9130 <i>Asperulo-Fagetum</i> (HOFMEISTER & HOŠEK 2016)
<i>Xerocomus ferrugineus</i>	Myc			+
<i>Xeromphalina campanella</i>	Lig			
<i>Xylaria hypoxylon</i>	Lig			
<i>Xylaria longipes</i>	Lig			
<i>Xylodon asper</i>	Lig			
<i>Xylodon brevisetus</i>	Lig			
<i>Xylodon crustosus</i>	Lig			
<i>Xylodon nespori</i>	Lig			
<i>Xylodon spathulatus</i>	Lig			

# ELECTRONIC SUPPLEMENTS

## Rich and rare funga in Zámecký les near Železná Ruda, a small but valuable near-natural mixed forest in the Šumava National Park, Czechia

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### A. Characteristics of beech (*Fagus sylvatica*) trunks monitored in Zámecký les (coded DF)

For methods of monitoring, see the main paper, Material and Methods, and the following publication:

HOLEC J., KUČERA T., BĚŤÁK J. & HORT L., 2020: Macrofungi on large decaying spruce trunks in a Central European old-growth forest: what factors affect their species richness and composition? *Mycological Progress*, 19: 53–66.

Trunk code	DF20	DF21	DF22	DF23	DF24
<b>Latitude coordinate</b> (Northern Hemisphere)	N49°07.400'	N49°07.390'	N49°07.377'	N49°07.343'	N49°07.366'
<b>Longitude coordinate</b> (Eastern Hemisphere)	E13°14.055'	E13°14.038'	E13°14.001'	E13°14.017'	E13°14.110'
<b>Elevation</b> (m above sea level)	800	790	785	780	800
<b>Way of fall</b>	broken	broken	broken	?	broken
<b>Diameter at breast height</b> (cm)	85	95	100	90	75
<b>Length of trunk parts studied,</b> excluding the stump (m)	21	26	35	12	30
<b>Stump</b>	yes	yes	yes	no	yes
<b>Stump height</b> (m)	9.0	9.0	0.5	no stump	6.0
<b>Direction of fall</b> (azimuth degrees)	120°	*	100°	0°	110°
<b>Decay stage</b>	3	1	4	4 to 5	2
<b>Contact with soil</b> (%)	65	20	90	80	40
<b>Bark cover</b> (%)	80	95	10	10	90
<b>Moss cover</b> (%)	40	2	70	60	50
<b>Cover of trees</b> (%)	70	40	80	85	60
<b>Cover of shrubs and young trees</b> (%)	0	0	2	2	2
<b>Total canopy cover</b> (%)	70	40	80	85	60

\* the crown of the tree broke into 3 parts, each lying on the ground in a different direction, part 1: 280°, part 2: 190°, part 3: 120°.

## B. Overview of records and collections from Zámecký les in 2021–2023

This list represents a formatted and annotated output from work database of J. Holec, where the records and collections of all the authors of the work were inserted.

Most collections are kept in fungarium PRM (National Museum, Mycological Department, Prague).

Some collections were identified microscopically (e.g. polypores by P. Vampola) but being sterile or poorly developed, they were not deposited in the PRM herbarium.

For records where documentary material was not collected and the names of the finder and the determiner were different, their names are written separately (leg., det.).

If only the JH number is given (i.e. collection number within the work documentation of J. Holec), the material was collected, microscoped and then thrown away (when poorly preserved or little material to be documented in PRM).

For definition of wood decay stages 1–5 see the main paper, Material and Methods.

### Abbreviations

DA: monitored trunk of *Abies alba* (for details see HOLEC et al. 2024)

DBH: diameter et breast height

DF: monitored trunk of *Fagus sylvatica* (for details see Electronic Supplement A)

DP: monitored trunk of *Picea abies* (for details see HOLEC et al. 2024)

JH: collection number within the work documentation of J. Holec

PRM: public fungarium of the National Museum, Mycological Department, Prague

PZDBR: collection number within the work documentation of P. Zehnálek

agg.: aggregate, i.e. group of species not recognizable morphologically

cf.: identified with some degree of uncertainty (some characters do not match exactly or not all characters have been checked)

det.: determinavit, i.e. identified

elev.: height above sea level

herb.: personal herbarium, collections are numbered according to the collector's system. In the future, some collections will be included in public herbaria PRM (collections of J. Holec, P. Zehnálek) or CB (collections of M. Beran).

leg.: legit, i.e. collected

not.: notavit, i.e. identified in the field and only recorded without taking documentary material

rev.: revised

s.l.: sensu lato, i.e. using broad delimitation of a taxon

*Abies*: *Abies alba*

*Fagus*: *Fagus sylvatica*

*Picea*: *Picea abies*

*Agrocybe praecox* (Pers.) Fayod – elev. 800 m, *Picea*: fallen decaying trunk covered with mosses, 16. 6. 2022 leg. et det. J. Holec, JH 6/2022.

*Aleurodiscus amorphus* (Pers.) J. Schröt. – elev. 810 m, *Abies*: freshly fallen trunk (DA11), on branch sticking out into the air, 15. 6. 2021 not. J. Holec.

*Alutaceodontia alutacea* (Fr.) Hjortstam & Ryvarden – elev. 815 m, *Picea*: fallen trunk (DP10), decay stage 3, DBH 95 cm, 10. 8. 2021 leg. et det. J. Holec, JH 277/2021 (PRM 957252).

*Amanita citrina* (Schaeff.) Pers. – elev. 800 m, under *Fagus*, *Abies*, *Picea*, 6. 9. 2021 not. J. Holec. – elev. 800 m, under *Picea*, *Fagus*, in moss, 19. 10. 2021 not. J. Holec.

*Amanita fulva* (Schaeff.) Fr. – elev. 800 m, under *Fagus*, *Abies*, *Picea*, 6. 9. 2021 not. J. Holec. – elev. 800 m, under *Fagus*, *Abies*, *Picea*, 14. 9. 2022 not. J. Holec.

- Amanita gemmata* (Fr.) Bertillon – elev. 800 m, under *Fagus, Abies*, 4. 8. 2022 not. J. Holec.
- Amanita rubescens* Pers. – elev. 800 m, under *Fagus, Abies, Picea*, 6. 9. 2021 not. J. Holec. – elev. 800 m, under *Picea*, 19. 10. 2021 not. J. Holec. – elev. 800 m, under *Fagus, Abies, Picea*, 13. 7. 2022 not. J. Holec, photographed. – elev. 800 m, under *Fagus, Abies*, 4. 8. 2022 not. J. Holec. – elev. 800 m, under *Fagus, Abies, Picea*, 14. 9. 2022 not. J. Holec. – elev. 800 m, under *Fagus, Abies, Picea*, 26. 10. 2022 not. J. Holec. – elev. 810 m, under *Fagus, Abies, Picea*, 15. 8. 2023 not. J. Holec.
- Amanita spissa* (Fr.) P. Kumm. – elev. 800 m, under *Fagus, Abies*, 6. 9. 2021 not. J. Holec. – elev. 810 m, under *Fagus, Abies, Picea*, 15. 8. 2023 not. J. Holec.
- Amanita submembranacea* (Bon) Gröger – elev. 800 m, under *Fagus, Abies, Picea*, 6. 9. 2021 not. J. Holec.
- Ampulloclitocybe clavipes* (Pers.) Redhead et al. – elev. 800 m, in fallen decaying leaves, 6. 9. 2021 not. J. Holec. – elev. 800 m, in fallen decaying leaves, 19. 10. 2021 not. J. Holec.
- Amylostereum areolatum* (Chaillat) Boidin – elev. 820 m, *Picea*: fallen trunk (DP06), decay stage 1, DBH 110 cm, 29. 9. 2022 leg. et det. J. Holec, JH 176/2022 (PRM 959020).
- Amylostereum chailletii* (Pers.) Boidin – elev. 810 m, *Picea*: fallen trunk (DP14), decay stage 2, DBH 100 cm, 16. 11. 2021 leg. et det. J. Holec, JH 543/2021 (PRM 957223).
- Amyloxenasma griselium* (Bourdot) Hjortstam & Ryvarde – elev. 815 m, *Picea*: fallen trunk (DP09), decay stage 3, DBH 130 cm, 15. 11. 2021 leg. et det. J. Holec, JH 485/2021 (PRM 957201).
- Antrodia serialis* (Fr.) Donk – elev. 810 m, *Picea*: fallen decaying trunk, 6. 9. 2021 leg. J. Holec, det. P. Vampola. – elev. 800 m, *Picea*: fallen decaying trunk covered with mosses, 6. 9. 2021 leg. J. Holec, det. P. Vampola. – elev. 800 m, fallen decaying trunk of a conifer, 19. 10. 2021 not. J. Holec.
- Antrodia sinuosa* (Fr.) P. Karst. – elev. 810 m, *Picea*: fallen trunk (DP08), decay stage 2, DBH 95 cm, 29. 9. 2022 leg. J. Holec, det. P. Vampola, JH 189/2022.
- Antrodiella citrinella* Niemelä & Ryvarde – elev. 815 m, *Picea*: fallen trunk (DP04), decay stage 3, DBH 115 cm, on old *Fomitopsis pinicola*, 15. 11. 2021 leg. et det. J. Holec, JH 441/2021 (PRM 957185). – elev. 800 m, *Abies*: fallen trunk (DA17), decay stage 3, DBH 95 cm, 16. 11. 2021 leg. et det. J. Holec, JH 589/2021 (PRM 957235).
- Antrodiella faginea* Vampola & Pouzar – elev. 820 m, *Fagus*: fallen branch without bark, 31. 9. 2022 leg. J. Holec, det. P. Vampola, JH 92/2022 (PRM 959043). – elev. 800 m, *Fagus*: fallen trunk (DF20), decay stage 3, DBH 85 cm, on branch, 11. 8. 2022 leg. J. Holec, det. P. Vampola, JH 75/2022 (PRM 959063).
- Armillaria cepistipes* Velen. – elev. 800 m, *Picea*: fallen decaying trunk, 6. 9. 2021 not. J. Holec. – elev. 800 m, *Abies*: fallen decaying trunk, 26. 10. 2022 not. J. Holec.
- Ascocoryne cyllichnium* (Tul.) Korf – elev. 815 m, *Picea*: fallen trunk (DP01), decay stage 1, DBH 120 cm, 15. 11. 2021 leg. et det. J. Holec, JH 406/2021 (PRM 957171). – elev. 800 m, *Fagus*: fallen trunk (DF20), decay stage 3, DBH 85 cm, 30. 9. 2022 leg. et det. J. Holec, JH 286/2022 (PRM 959075).
- Ascocoryne inflata* D.E. Wilson nom. prov. – elev. 785 m, *Fagus*: fallen trunk (DF22), decay stage 4, DBH 100 cm, in litter, 30. 11. 2022 leg. et det. J. Holec, JH 440/2022 (PRM 959097).
- Ascocoryne lilacina* (Fr.) Baral, Helleman, Matočec, I. Kušan, Polhorský & E. Weber – elev. 815 m, *Fagus*, fallen trunk, 11. 10. 2022 leg. B. Kučerová, P. Zehnálek, det. H.-O. Baral (PRM 959371).
- Ascocoryne sarcoides* (Jaqc.) Groves & Wilson – elev. 800 m, *Fagus*: fallen branch without bark, 9. 11. 2021 not. J. Holec. – elev. 790 m, *Fagus*: fallen trunk (DF21), decay stage 1, DBH 95 cm, on branch, 30. 9. 2022 not. J. Holec.
- Ascotremella faginea* (Peck) Seaver – elev. 810 m, *Picea*: fallen trunk without bark, diam. 50 cm, 6. 9. 2021 leg. M. Beran and J. Holec, det. J. Holec, JH 355/2021 (PRM 957131). – elev. 800 m, *Picea*: fallen decaying trunk, 6. 9. 2021 leg. J. Holec, M. Beran, M. Kříž, det. J. Holec, M. Beran, M. Kříž (PRM 956177).
- Athelia decipiens* (Höhn. & Litsch.) J. Erikss. – elev. 810 m, *Picea*: fallen trunk (DP08), decay stage 2, DBH 95 cm, 15. 11. 2021 leg. et det. J. Holec, JH 474/2021 (PRM 957198).
- Athelia epiphylla* Pers. – elev. 815 m, *Picea*: fallen trunk (DP01), decay stage 1, DBH 120 cm, 15. 11. 2021 leg. et det. J. Holec, JH 405/2021 (PRM 957170). – elev. 800 m, *Fagus*: fallen trunk (DF20), decay stage 3, DBH 85 cm, 30. 9. 2022 leg. et det. J. Holec, JH 280/2022 (PRM 959072).
- Athelia neuhoffii* (Bres.) Donk – elev. 810 m, *Picea*: fallen trunk (DP14), decay stage 2, DBH 100 cm, 30. 9. 2022 leg. et det. J. Holec, JH 240/2022.

- Baeospora myriadophylla* (Peck) Singer – elev. 815 m, *Picea*: fallen trunk (DP03), decay stage 3, DBH 110 cm, 15. 11. 2021 leg. et det. J. Holec, JH 421/2021 (PRM 957179), photographed. – elev. 800 m, *Picea*: fallen decaying trunk, 26. 10. 2022 not. J. Holec.
- Basidiodendron caesiocinereum* agg. (Höhn. & Litsch.) Luck-Allen s.l. – elev. 815 m, *Abies*: fallen trunk (DA07), decay stage 4/5 (trunk strongly decayed, loosing its original shape), DBH 90 cm, 15. 11. 2021 leg. et det. J. Holec, JH 467/2021 (PRM 957194). – elev. 810 m, *Abies*: fallen trunk (DA16), decay stage 3, DBH 95 cm, 16. 11. 2021 leg. et det. J. Holec, JH 570/2021 (PRM 957230). – elev. 815 m, *Abies*: fallen trunk (DA07), decay stage 4/5, DBH 90 cm, 29. 9. 2022 leg. et det. J. Holec, JH 181/2022. – elev. 815 m, *Abies*: fallen trunk (DA19), decay stage 3, DBH 85 cm, 29. 9. 2022 leg. et det. J. Holec, JH 141/2022 (PRM 959022). – elev. 815 m, *Picea*: fallen trunk (DP03), decay stage 3, DBH 110 cm, 29. 9. 2022 leg. et det. J. Holec, JH 156/2022. – elev. 815 m, *Picea*: fallen trunk (DP09), decay stage 3, DBH 130 cm, 29. 9. 2022 leg. et det. J. Holec, JH 192/2022. – elev. 805 m, *Abies*: fallen trunk (DA15), decay stage 4, DBH 115 cm, 30. 9. 2022 leg. et det. J. Holec, JH 234/2022.
- Basidiodendron radicans* (Rick) P. Roberts – elev. 795 m, *Picea*: fallen trunk (DP18), decay stage 4, DBH 90 cm, 16. 11. 2021 leg. et det. J. Holec, JH 597/2021 (PRM 957238).
- Bertia moriformis* (Tode) De Not. – elev. 800 m, *Fagus*, branch on the ground, 11. 10. 2022 leg. B. Kučerová, P. Zehnálek, det. B. Kučerová (PRM 958567).
- Bjerkandera adusta* (Willd.) P. Karst. – elev. 800 m, *Fagus*: fallen trunk without bark, 9. 11. 2021 not. J. Holec and P. Zehnálek. – elev. 800 m, *Fagus*: fallen trunk without bark, 4. 8. 2022 leg. J. Holec, det. P. Vampola, JH 64/2022 (PRM 959037). – elev. 800 m, *Fagus*: fallen trunk (DF24), decay stage 2, DBH 75 cm, on branch, 17. 6. 2022 not. J. Holec.
- Bolbitius reticulatus* (Pers.) Ricken – elev. 800 m, *Fagus*: fallen decaying trunk covered with mosses, 4. 8. 2022 not. J. Holec. – elev. 800 m, *Fagus*: fallen trunk (DF20), decay stage 3, DBH 85 cm, 11. 8. 2022 not. J. Holec.
- Boletus edulis* Bull. – elev. 800 m, under *Fagus*, *Abies*, *Picea*, 6. 9. 2021 not. J. Holec. – elev. 800 m, under *Picea*, 14. 9. 2022 not. J. Holec.
- Bondarzewia mesenterica* (Schaeff.) Kreisel – elev. 800 m, *Abies*: at base of living tree, 6. 9. 2021 not. J. Holec. – elev. 800 m, *Abies*: at base of a stump, 9. 11. 2021 not. J. Holec and P. Zehnálek. – elev. 800 m, *Abies*: on roots in soil, 2–3 m of a living tree, 4. 8. 2022 not. J. Holec.
- Botryobasidium aureum* Parmasto – elev. 810 m, *Picea*: fallen trunk (DP12), decay stage 4/5 (trunk strongly decayed, loosing its original shape), DBH 100 cm, 10. 8. 2021 leg. et det. J. Holec, JH 285/2021 (PRM 957256). – elev. 805 m, *Abies*: fallen trunk (DA15), decay stage 4, DBH 115 cm, 10. 8. 2021 leg. et det. J. Holec, JH 295/2021 (PRM 957261). – elev. 820 m, *Picea*: fallen trunk (DP05), decay stage 2, DBH 120 cm, 29. 9. 2022 leg. et det. J. Holec, JH 165/2022 (PRM 959018). – elev. 800 m, *Fagus*: fallen trunk (DF20), decay stage 3, DBH 85 cm, 30. 9. 2022 leg. et det. J. Holec, JH 284/2022 (PRM 959073).
- Botryobasidium capitatum* (Link) Rossman & W.C. Allen – elev. 815 m, *Picea*: fallen trunk (DP03), decay stage 3, DBH 110 cm, 9. 8. 2021 leg. et det. J. Holec, JH 217/2021 (PRM 957241). – elev. 810 m, *Abies*: fallen trunk (DA16), decay stage 3, DBH 95 cm, 16. 6. 2021 leg. et det. J. Holec, JH 120/2021 (PRM 957280). – elev. 805 m, *Picea*: fallen trunk (DP13), decay stage 4, DBH 90 cm, 30. 9. 2022 leg. et det. J. Holec, JH 227/2022.
- Botryobasidium ellipso sporum* Hol.-Jech. – elev. 815 m, *Picea*: fallen trunk (DP03), decay stage 3, DBH 110 cm, 9. 8. 2021 leg. et det. J. Holec, JH 219/2021 (PRM 957243). – elev. 815 m, *Picea*: fallen trunk (DP03), decay stage 3, DBH 110 cm, 15. 6. 2021 leg. et det. J. Holec, JH 57/2021 (PRM 957266). – elev. 805 m, *Abies*: fallen trunk (DA15), decay stage 4, DBH 115 cm, 16. 6. 2021 leg. et det. J. Holec, JH 110/2021 (PRM 957279). – elev. 820 m, *Picea*: fallen trunk (DP05), decay stage 2, DBH 120 cm, 29. 9. 2022 leg. et det. J. Holec, JH 166/2022 (PRM 959019).
- Botryobasidium intertextum* (Schwein.) Jülich & Stalpers – elev. 795 m, *Picea*: fallen trunk (DP18), decay stage 4, DBH 90 cm, 10. 8. 2021 leg. et det. J. Holec, JH 317/2021 (PRM 957264). – elev. 805 m, *Abies*: fallen trunk (DA15), decay stage 4, DBH 115 cm, 15. 6. 2021 leg. et det. J. Holec, JH 104/2021.
- Botryobasidium isabellinum* (Fr.) D.P. Rogers – elev. 815 m, *Picea*: fallen trunk (DP01), decay stage 1, DBH 120 cm, 15. 11. 2021 leg. J. Holec, det. A. Jirsa, JH 402/2021 (PRM 957168). – elev. 815 m, *Picea*: fallen trunk (DP01), decay stage 1, DBH 120 cm, 15. 11. 2021 leg. et det. J. Holec, JH 407/2021 (PRM 957172). – elev. 785 m, *Fagus*: fallen trunk (DF22), decay stage 4, DBH 100 cm, 1. 10. 2022 not. J. Holec.

- Botryobasidium medium* J. Erikss. – elev. 805 m, *Picea*: fallen trunk (DP13), decay stage 4, DBH 90 cm, 10. 8. 2021 leg. et det. J. Holec, JH 291/2021 (PRM 957259).
- Botryobasidium obtusisporum* J. Erikss. – elev. 815 m, *Abies*: fallen trunk (DA07), decay stage 4/5 (trunk strongly decayed, loosing its original shape), DBH 90 cm, 15. 6. 2021 leg. et det. J. Holec, JH 73/2021 (PRM 957271).
- Botryobasidium subcoronatum* (Höhn. & Litsch.) Donk – elev. 815 m, *Abies*: fallen trunk (DA07), decay stage 4/5 (trunk strongly decayed, loosing its original shape), DBH 90 cm, 15. 11. 2021 leg. et det. J. Holec, JH 469/2021 (PRM 957195). – elev. 780 m, *Fagus*: fallen trunk (DF23), decay stage 5, DBH 90 cm, 11. 10. 2022 not. J. Holec.
- Bulgariella pulla* (Fr.) P. Karst. – elev. 800 m, *Fagus*: fallen trunk (DF20), decay stage 3, DBH 85 cm, on branch, 17. 6. 2022 leg. et det. J. Holec, JH 18/2022 (PRM 959056).
- Callistosporium pinicola* Arnolds – elev. 810 m, *Picea*: fallen decaying trunk covered with mosses, 7. 9. 2021 leg. M. Beran and J. Holec, det. M. Beran and J. Holec, JH 362/2021 (PRM 957136). – elev. 800 m, *Abies*: fallen trunk (DA17), decay stage 3, DBH 95 cm, 30. 9. 2022 leg. et det. J. Holec, JH 266/2022 (PRM 959033).
- Caloboletus calopus* (Pers.) Vizzini – elev. 800 m, under *Fagus*, *Picea*, 6. 9. 2021 not. J. Holec. – elev. 800 m, under *Fagus*, *Abies*, *Picea*, in leaves close to a brook, 19. 10. 2021 not. J. Holec. – elev. 800 m, under *Fagus*, *Abies*, *Picea*, 14. 9. 2022 not. J. Holec. – elev. 810 m, under *Picea*, *Fagus*, on bare soil with mosses at brook shore, 15. 8. 2023 not. J. Holec.
- Calocera cornea* (Batsch) Fr. – elev. 790 m, *Fagus*: fallen trunk (DF21), decay stage 1, DBH 95 cm, on branch, 30. 9. 2022 not. J. Holec.
- Calocera viscosa* (Pers.) Fr. – elev. 800 m, decaying conifer stump, 6. 9. 2021 not. J. Holec.
- Calycina citrina* (Hedw.) Gray – elev. 800 m, *Fagus*: fallen branch without bark, 7. 9. 2021 not. J. Holec. – elev. 800 m, *Fagus*: fallen trunk (DF24), decay stage 2, DBH 75 cm, 22. 11. 2022 leg. B. Kučerová, P. Zehnálek, det. B. Kučerová (PRM 958584). – elev. 800 m, *Fagus* (?), branch on the ground, 11. 10. 2022 leg. B. Kučerová, P. Zehnálek, det. M. Šandová (PRM 958569, as *Bisporella citrina*). – elev. 800 m, *Fagus*: fallen trunk (DF24), decay stage 2, DBH 75 cm, 31. 8. 2022 leg. B. Kučerová, J. Holec, P. Zehnálek, rev. M. Šandová (PRM 958566, originally identified as *Orbilbia coccinella*).
- Camarops tubulina* (Alb. & Schwein.) Shear – elev. 815 m, *Picea*: fallen trunk (DP04), decay stage 3, DBH 115 cm, 15. 6. 2021 not. J. Holec. – elev. 810 m, *Picea*: fallen trunk (DP12), decay stage 4/5 (trunk strongly decayed, loosing its original shape), DBH 100 cm, 15. 6. 2021 not. J. Holec. – elev. 795 m, *Picea*: fallen trunk (DP18), decay stage 4, DBH 90 cm, 15. 6. 2021 not. J. Holec.
- Cantharellus amethysteus* (Quél.) Sacc. – elev. 800 m, under *Fagus*, close to a brook, 7. 9. 2021 not. J. Holec.
- Cantharellus cibarius* Fr. – elev. 800 m, under *Fagus*, *Abies*, *Picea*, 6. 9. 2021 not. J. Holec. – elev. 800 m, under *Fagus*, *Abies*, *Picea*, 14. 9. 2022 not. J. Holec. – elev. 810 m, under *Fagus*, *Abies*, *Picea*, 15. 8. 2023 not. J. Holec.
- Cantharellus friesii* Quél. – elev. 800 m, under *Picea* and *Fagus*, in needles, 6. 9. 2021 not. J. Holec.
- Catenularia cupulifera* (Berk. & Broome) Réblová & A.N. Mill. – elev. 800 m, *Fagus*: fallen trunk (DF20), decay stage 3, DBH 85 cm, 31. 8. 2022 leg. B. Kučerová, J. Holec, P. Zehnálek, det. B. Kučerová (PRM 958544).
- Ceraceomyces serpens* (Tode) Ginns – elev. 785 m, *Fagus*: fallen trunk (DF22), decay stage 4, DBH 100 cm, 11. 8. 2022 leg. et det. J. Holec, JH 82/2022 (PRM 959067).
- Cerinomyces aeneus* A. Savchenko, Miettinen & J.C. Zamora – elev. 810 m, *Fagus*: fallen decaying trunk, diam. 20 cm, 17. 4. 2023 leg. et det. J. Holec, JH 7/2023 (PRM 959512), photographed.
- Ceriporia excelsa* (Lund.) Parmasto – elev. 790 m, *Fagus*: fallen trunk (DF21), decay stage 1, DBH 95 cm, 30. 9. 2022 leg. J. Holec, det. P. Vampola, JH 293/2022 (PRM 959078).
- Ceriporia viridans* (Berk. & Broome) Donk – elev. 800 m, *Fagus*: fallen trunk (DF20), decay stage 3, DBH 85 cm, 11. 8. 2022 leg. J. Holec, det. P. Vampola, JH 77/2022 (PRM 959065).
- Ceriporiopsis mucida* (Pers.) Gilb. & Ryvarden – elev. 790 m, *Abies*: fallen decayed trunk, 7. 9. 2021 leg. et det. J. Holec, JH 360/2021 (PRM 957134). – elev. 815 m, *Picea*: fallen trunk (DP03), decay stage 3, DBH 110 cm, 29. 9. 2022 leg. J. Holec, det. P. Vampola, JH 157/2022 (PRM 959016).
- Ceriporiopsis resinascens* (Romell) Domanski – elev. 800 m, *Fagus*: fallen trunk (DF20), decay stage 3, DBH 85 cm, 30. 11. 2022 leg. J. Holec, det. P. Vampola, JH 418/2022 (PRM 959094).

- Chaetosphaeria* cf. *innumera* Berk. & Broome ex Tul. & C. Tul. – elev. 800 m, *Fagus*: fallen trunk (DF20), decay stage 3, DBH 85 cm, 31. 8. 2022 leg. B. Kučerová, J. Holec, P. Zehnálek, det. B. Kučerová (PRM 958541).
- Chondrostereum purpureum* (Pers.) Pouzar – elev. 800 m, *Fagus*: on the cut surface of the fallen trunk, 29. 9. 2022 not. J. Holec.
- Chromelosporium fulvum* (Link) McGinty, Hennebert & Korf – elev. 780 m, *Fagus*: fallen trunk (DF23), decay stage 5, DBH 90 cm, 22. 11. 2022 leg. B. Kučerová, P. Zehnálek, det. M. Šandová (PRM 958595), as *Chromelosporium* state of *Peziza ostracoderma*).
- Ciboria rufofusca* (Weberbauer) Saccardo – elev. 800 m, *Abies*: on scale from cone lying on soil, 10. 5. 2022 leg. et det. P. Zehnálek, PZDBR18 (PRM 959336).
- Clavulina coralloides* (L.) J. Schröt. – elev. 800 m, in moss and fallen leaves, 6. 9. 2021 not. J. Holec.
- Clavulina rugosa* (Bull.) J. Schröt. – elev. 800 m, under *Fagus*, *Abies*, *Picea*, bank of a stream, 7. 9. 2021 not. J. Holec.
- Climacocystis borealis* (Fr.) Kotl. & Pouzar – elev. 800 m, *Picea*: fallen decaying trunk, 6. 9. 2021 not. J. Holec.
- Clitocybe ditopa* (Fr.) Gillet – elev. 815 m, *Picea*: fallen trunk (DP04), decay stage 3, DBH 115 cm, 15. 11. 2021 leg. et det. J. Holec, JH 440/2021.
- Clitocybe odora* (Bull.) P. Kumm. – elev. 800 m, in detritus, 7. 9. 2021 not. J. Holec.
- Clitocybe vibecina* (Fr.) Quél. – elev. 810 m, *Picea*: fallen trunk (DP12), decay stage 4/5 (trunk strong decayed, losing its original shape), DBH 100 cm, 16. 11. 2021 leg. et det. J. Holec, JH 521/2021.
- Clitocybula lacerata* (Scop.) Métrod – elev. 800 m, *Picea*: fallen decaying trunk, 6. 9. 2021 not. J. Holec. – elev. 810 m, *Abies*: fallen trunk (DA16), decay stage 3, DBH 95 cm, 30. 9. 2022 leg. et det. J. Holec, JH 251/2022 (PRM 959032).
- Clitopilus hobsonii* var. *daamsii* (Noordel.) Courtec. – elev. 810 m, *Abies*: fallen trunk (DA11), decay stage 1, DBH 105 cm, 16. 11. 2021 leg. et det. J. Holec, JH 514/2021 (PRM 957213), photographed. – elev. 800 m, *Fagus*: on wood, 9. 11. 2021 leg. J. Holec and P. Zehnálek, det. P. Zehnálek (PRM 959222). – elev. 790 m, *Fagus*: fallen trunk (DF21), decay stage 1, DBH 95 cm, 30. 9. 2022 leg. et det. J. Holec, JH 292/2022 (PRM 959077), photographed.
- Collybia cookei* (Bres.) J. D. Arnold – elev. 815 m, *Abies*: fallen trunk (DA19), decay stage 3, DBH 85 cm, 29. 9. 2022 not. J. Holec.
- Collybia tuberosa* (Bull.) P. Kumm. – elev. 800 m, in detritus, 7. 9. 2021 not. J. Holec.
- Conferticium ochraceum* (Fr.) Hallenb. – elev. 815 m, *Picea*: fallen trunk (DP10), decay stage 3, DBH 95 cm, 10. 8. 2021 leg. et det. J. Holec, JH 278/2021 (PRM 957253).
- Coniophora arida* (Fr.) P. Karst. – elev. 800 m, *Fagus*: fallen trunk (DF24), decay stage 2, DBH 75 cm, 30. 11. 2022 leg. et det. J. Holec, JH 448/2022 (PRM 959099).
- Coniophora olivacea* (Fr.) P. Karst. – elev. 815 m, *Picea*: fallen trunk (DP10), decay stage 3, DBH 95 cm, 15. 11. 2021 leg. et det. J. Holec, JH 501/2021 (PRM 957205).
- Coniophora puteana* (Schum.) P. Karst. – elev. 815 m, *Picea*: fallen trunk (DP01), decay stage 1, DBH 120 cm, 15. 11. 2021 leg. et det. J. Holec, JH 404/2021 (PRM 957169).
- Coprinellus micaceus* (Bull.) Vilgalys, Hopple & Jacq. Johnson – elev. 800 m, *Fagus*: fallen trunk (DF24), decay stage 2, DBH 75 cm, 1. 10. 2022 not. J. Holec, photographed.
- Cortinarius anomalus* (Fr.) Fr. – elev. 800 m, under *Fagus*, *Abies*, *Picea*, bank of a stream, 7. 9. 2021 not. M. Beran and J. Holec. – elev. 800 m, in litter, 7. 9. 2021 leg. et det. M. Beran (herb. Beran).
- Cortinarius bataillei* (J. Favre ex M.M. Moser) Hoil. – elev. 800 m, under *Fagus*, *Abies*, *Picea*, in moss close to a brook, 6. 9. 2021 not. J. Holec and M. Beran. – elev. 800 m, in detritus close to a stump, 19. 10. 2021 not. J. Holec.
- Cortinarius bolaris* (Pers.) Fr. – elev. 800 m, under *Fagus*, *Abies*, *Picea*, 6. 9. 2021 not. J. Holec.
- Cortinarius diasemospermus* Lamoure – elev. 785 m, *Fagus*: fallen trunk (DF22), decay stage 4, DBH 100 cm, at stump base, 1. 10. 2022 not. J. Holec. – elev. 800 m, in litter, 6. 9. 2021 leg. et det. M. Beran (herb. Beran).
- Cortinarius evernius* (Fr.) Fr. – elev. 800 m, under *Fagus*, *Abies*, close to a brook, 6. 9. 2021 not. J. Holec.
- Cortinarius flexipes* (Pers.) Fr. – elev. 800 m, under *Fagus*, *Abies*, *Picea*, 6. 9. 2021 not. J. Holec.
- Cortinarius gentilis* (Fr.) Fr. – elev. 800 m, under *Fagus*, *Picea*, 6. 9. 2021 not. J. Holec.

- Cortinarius largus* Fr. – elev. 800 m, under *Fagus*, *Abies*, *Picea*, 7. 9. 2021 not. M. Beran and J. Holec.
- Cortinarius lignicola* Bidaud – elev. 800 m, in detritus close to *Picea* stump, 6. 9. 2021 leg. et det. J. Holec and M. Beran (herb. Beran). – elev. 815 m, *Abies*: fallen trunk (DA07), decay stage 4/5 (trunk strongly decayed, loosing its original shape), DBH 90 cm, 29. 9. 2022 leg. et det. J. Holec, JH 180/2022 (PRM 959021), photographed.
- Cortinarius malicorius* Fr. – elev. 800 m, under *Fagus*, *Abies*, *Picea*, 6. 9. 2021 leg. M. Beran and J. Holec, det. M. Beran.
- Cortinarius rubellus* Cooke – elev. 800 m, under *Picea*, *Fagus*, 6. 9. 2021 not. J. Holec.
- Cortinarius sanguineus* (Wulfen) Fr. – elev. 800 m, under *Picea*, *Abies*, 6. 9. 2021 not. J. Holec.
- Cortinarius semisanguineus* (Fr.) Gill. – elev. 800 m, under *Picea*, *Fagus*, damp place, 6. 9. 2021 not. J. Holec and M. Beran. – elev. 800 m, under *Fagus*, *Abies*, *Picea*, in leaves close to a brook, 19. 10. 2021 not. J. Holec.
- Cortinarius sommerfeltii* Høil. – elev. 805 m, in leaves close to stream, 19. 10. 2021 leg. et det. J. Holec, JH 389/2021 (PRM 957154).
- Cortinarius subpurpurascens* (Batsch) Fr. – elev. 800 m, under *Fagus*, 7. 9. 2021 not. M. Kříž and J. Holec.
- Cortinarius* cf. *suillus* Fr. – elev. 800 m, in litter, 6. 9. 2021 leg. et det. M. Beran (herb. Beran).
- Cosmospora arxii* (W. Gams) Gräfenhan & Schroers – elev. 790 m, *Fagus*: fallen trunk (DF21), decay stage 1, DBH 95 cm, 31. 8. 2022 leg. B. Kučerová, J. Holec, P. Zehnálek, det. B. Kučerová (PRM 958551).
- Craterellus cornucopioides* (L.) Pers. – elev. 800 m, under *Fagus*, *Abies*, *Picea*, 9. 11. 2021 not. J. Holec and P. Zehnálek.
- Craterellus tubaeformis* (Fr.) Quél. – elev. 800 m, under *Fagus*, *Picea*, 6. 9. 2021 not. J. Holec. – elev. 800 m, under *Fagus*, *Abies*, *Picea*, in leaves close to a brook, 19. 10. 2021 not. J. Holec. – elev. 780 m, *Fagus*: fallen trunk (DF23), decay stage 5, DBH 90 cm, in litter, 30. 11. 2022 not. J. Holec.
- Crepidotus applanatus* (Pers.) P. Kumm. – elev. 820 m, *Fagus*: fallen decaying branch, 13. 7. 2022 leg. et det. J. Holec, JH 45/2022 (PRM 959006), photographed. – elev. 800 m, *Fagus*: fallen trunk (DF20), decay stage 3, DBH 85 cm, 30. 9. 2022 not. J. Holec.
- Crepidotus epibryus* (Fr.) Quél. – elev. 790 m, *Fagus*: fallen trunk (DF21), decay stage 1, DBH 95 cm, on branch, 30. 11. 2022 leg. et det. J. Holec, JH 424/2022 (PRM 959095), photographed.
- Crepidotus kubickae* Pilát – elev. 810 m, *Abies*: fallen trunk (DA11), decay stage 1, DBH 105 cm, 16. 11. 2021 leg. et det. J. Holec, JH 510/2021 (PRM 957210). – elev. 800 m, *Picea*: freshly fallen trunk, 19. 10. 2021 not. J. Holec. – elev. 800 m, *Picea*: freshly fallen trunk, 19. 10. 2021 not. J. Holec. – elev. 800 m, *Abies*: fallen branch with bark, 9. 11. 2021 not. J. Holec and P. Zehnálek. – elev. 800 m, *Picea*: freshly fallen trunk, 10. 5. 2022 not. J. Holec and P. Zehnálek.
- Cryptocoryneum condensatum* (Wallr.) E.W. Mason & S. Hughes ex S. Hughes – elev. 790 m, *Fagus*: fallen trunk (DF21), decay stage 1, 31. 8. 2022 leg. B. Kučerová, J. Holec, P. Zehnálek, det. M. Šandová (PRM 959368). – Notes: Identified according to Hashimoto et al., Mycol. Progress 15: 45, 2016. Average number of conidia arms 7, average number of septa per arm 18 and average length of conidia arms 75.7 µm.
- Cudoniella acicularis* (Bull.) J. Schröt. – elev. 800 m, *Fagus*: fallen decaying trunk covered with mosses, 14. 9. 2022 leg. et det. J. Holec, JH 98/2022 (PRM 959045).
- Cudoniella clavus* (Alb. & Schwein.) Dennis – elev. 810 m, *Fagus*: fallen branch without bark, in stream water, 10. 5. 2022 leg. J. Holec and P. Zehnálek, det. J. Holec.
- Cudoniella tenuispora* (Cooke & Masseur) Dennis – elev. 800 m, on twigs in creek, 24. 5. 2023 leg. V. Souček, P. Zehnálek, det. P. Zehnálek, PZDBR22 (PRM 959363), photographed.
- Cylindrobasidium evolvens* (Fr.) Jülich – elev. 810 m, *Abies*: fallen trunk (DA11), decay stage 1, DBH 105 cm, 16. 11. 2021 leg. et det. J. Holec, JH 507/2021 (PRM 957208). – elev. 810 m, *Abies*: fallen trunk (DA11), decay stage 1, DBH 105 cm, 9. 8. 2021 leg. et det. J. Holec, JH 252/2021 (PRM 957251). – elev. 790 m, *Fagus*: fallen trunk (DF21), decay stage 1, DBH 95 cm, on branch, 30. 9. 2022 leg. et det. J. Holec, JH 287/2022 (PRM 959076).
- Cyphella digitalis* (Alb. & Schwein.) Fr. – elev. 810 m, *Abies*: freshly fallen trunk, on branch sticking out into the air, 9. 11. 2021 leg. et det. J. Holec, JH 394/2021 (PRM 956950), photographed. – elev. 810 m, *Abies*: freshly fallen trunk (DA11), on branch sticking out into the air, 9. 11. 2021 leg. et det. J. Holec, JH 395/2021 (PRM 956951), photographed.

- Cystoderma carcharias* (Pers.) Fayod – elev. 785 m, *Fagus*: fallen trunk (DF22), decay stage 4, DBH 100 cm, 1. 10. 2022 not. J. Holec.
- Cystoderma jasonis* (Cooke & Massee) Harmaja – elev. 810 m, on soil among detritus (leaves, wood remnants), 19. 10. 2021 leg. et det. J. Holec, JH 392/2021 (PRM 957157), photographed. – elev. 800 m, decaying conifer stump covered with mosses, 9. 11. 2021 not. J. Holec and P. Zehnálek.
- Cystostereum murrayi* (Berk. & M.A. Curtis) Pouzar – elev. 812 m, on branch connected to fallen huge trunk of *Abies*, 9. 11. 2021 leg. et det. P. Zehnálek (PRM 959218).
- Dacrymyces stillatus* Nees – elev. 815 m, *Picea*: fallen trunk (DP01), decay stage 1, DBH 120 cm, 29. 9. 2022 not. J. Holec. – elev. 800 m, *Fagus*: fallen trunk (DF24), decay stage 2, DBH 75 cm, 17. 6. 2022 not. J. Holec.
- Dasyscyphella montana* Raitv. – elev. 780 m, *Fagus*: fallen trunk (DF23), decay stage 5, DBH 90 cm, 22. 11. 2022 leg. B. Kučerová, P. Zehnálek, rev. M. Šandová (PRM 958598, originally identified as *D. cf. nivea*).
- Delicatula integrella* (Pers.) Pat. – elev. 800 m, *Picea*: decaying wood close to a stream, 13. 7. 2022 not. J. Holec.
- Dentipellis fragilis* (Pers.) Donk – elev. 780 m, *Fagus*: fallen trunk (DF23), decay stage 5, DBH 90 cm, 1. 10. 2022 leg. et det. J. Holec, JH 307/2022 (PRM 959084).
- Diitiola haasii* Oberw. – elev. 815 m, *Abies*: fallen trunk (DA19), decay stage 3, DBH 85 cm, 15. 11. 2021 leg. et det. J. Holec, JH 413/2021 (PRM 957174). – elev. 820 m, *Picea*: fallen trunk (DP05), decay stage 2, DBH 120 cm, 15. 11. 2021 leg. et det. J. Holec, JH 445/2021 (PRM 957186), photographed. – elev. 820 m, *Picea*: fallen trunk (DP05), decay stage 2, DBH 120 cm, 15. 11. 2021 leg. et det. J. Holec, JH 451/2021 (PRM 957189), photographed. – elev. 805 m, *Picea*: fallen trunk (DP13), decay stage 4, DBH 90 cm, 16. 11. 2021 leg. et det. J. Holec, JH 535/2021 (PRM 957220). – elev. 810 m, *Picea*: fallen trunk (DP14), decay stage 2, DBH 100 cm, 16. 11. 2021 leg. et det. J. Holec, JH 546/2021 (PRM 957224). – elev. 795 m, *Picea*: fallen trunk (DP18), decay stage 4, DBH 90 cm, 16. 11. 2021 leg. et det. J. Holec, JH 595/2021 (PRM 957237). – elev. 820 m, *Picea*: fallen trunk (DP06), decay stage 1, DBH 110 cm, 9. 8. 2021 leg. et det. J. Holec, JH 235/2021 (PRM 957246).
- Durandiella gallica* Morelet – elev. 810 m, *Abies*: fallen trunk (DA11), decay stage 1, DBH 105 cm, 16. 11. 2021 leg. et det. J. Holec, JH 516/2021 (PRM 957215), photographed.
- Echinospaeria canescens* (Pers.) A.N. Mill. & Huhndorf – elev. 815 m, *Picea*: fallen trunk (DP01), decay stage 1, DBH 120 cm, 29. 9. 2022 leg. et det. J. Holec, JH 130/2022 (PRM 959013).
- Entoloma cetratum* (Fr.) M.M. Moser – elev. 800 m, in detritus, 6. 9. 2021 not. J. Holec. – elev. 800 m, under *Picea*, *Fagus*, in moss, 19. 10. 2021 not. J. Holec.
- Eutypa flavovirens* (Fr.) Tul. & C. Tul. – elev. 790 m, *Fagus*: fallen trunk (DF21), decay stage 1, on twig on the ground next to the trunk, 31. 8. 2022 leg. B. Kučerová, J. Holec, P. Zehnálek, det. B. Kučerová (PRM 958550).
- Eutypa spinosa* (Pers.) Tul. & Tul. – elev. 800 m, *Fagus*: fallen trunk (DF24), decay stage 2, DBH 75 cm 31. 8. 2022 leg. B. Kučerová, J. Holec, P. Zehnálek, det. B. Kučerová (PRM 958560).
- Eutypella quaternata* (Pers.) F. Rappaz – elev. 800 m, twig in the stream, 11. 10. 2022 leg. B. Kučerová, P. Zehnálek, det. P. Zehnálek, B. Kučerová (PRM 958578).
- Exidia nigricans* (With.) P. Roberts – elev. 800 m, *Fagus*: freshly fallen trunk, 19. 10. 2021 not. J. Holec. – elev. 800 m, *Fagus*: fallen branch without bark, 9. 11. 2021 not. J. Holec. – elev. 800 m, *Fagus*: freshly fallen trunk, 12. 4. 2022 not. J. Holec. – elev. 800 m, *Fagus*: fallen trunk (DF24), decay stage 2, DBH 75 cm, 17. 6. 2022 not. J. Holec.
- Exidia pithya* (Alb. & Schwein.) – elev. 815 m, *Picea*: fallen trunk (DP01), decay stage 1, DBH 120 cm, 15. 6. 2021 not. J. Holec.
- Exidiopsis effusa* (Bref.) A. Möller – elev. 810 m, *Fagus*: fallen branch without bark, 17. 4. 2023 leg. et det. J. Holec, JH 9/2023 (PRM 959513).
- Exidiopsis umbrina* (D.P. Rogers) Wojewoda – elev. 790 m, *Fagus*: fallen trunk (DF21), decay stage 1, DBH 95 cm, on branch, 17. 6. 2022 leg. et det. J. Holec, JH 27/2022 (PRM 959060).
- Flammulaster limulatus* (Fr.) Watling – elev. 800 m, *Fagus*: fallen trunk (DF24), decay stage 2, DBH 75 cm, 11. 8. 2022 not. J. Holec.
- Fomes fomentarius* (L.) Kickx – elev. 800 m, *Fagus*: fallen trunk (DF20), decay stage 3, DBH 85 cm, 17. 6. 2022 not. J. Holec.

- Fomitopsis pinicola* (Schwartz) P. Karst. – elev. 815 m, *Picea*: fallen trunk (DP03), decay stage 3, DBH 110 cm, 15. 6. 2021 not. J. Holec. – elev. 800 m, *Fagus*: fallen trunk (DF24), decay stage 2, DBH 75 cm, 17. 6. 2022 not. J. Holec.
- Galerina ampullaceocystis* P.D. Orton – elev. 820 m, *Fagus*: fallen decaying trunk, 16. 6. 2022 leg. et det. J. Holec, JH 7/2022 (PRM 959004).
- Galerina atkinsoniana* Smith – elev. 820 m, *Picea*: fallen trunk (DP05), decay stage 2, DBH 120 cm, 9. 8. 2021 leg. et det. J. Holec, JH 232/2021. – elev. 795 m, *Picea*: fallen trunk (DP18), decay stage 4, DBH 90 cm, 30. 9. 2022 leg. et det. J. Holec, JH 271/2022 (PRM 959035).
- Galerina calyptrata* P.D. Orton – elev. 810 m, *Picea*: fallen trunk (DP12), decay stage 4/5 (trunk strongly decayed, loosing its original shape), DBH 100 cm, 10. 8. 2021 leg. et det. J. Holec, JH 284/2021 (PRM 957255). – elev. 810 m, *Picea*: fallen trunk (DP12), decay stage 4/5 (trunk strongly decayed, loosing its original shape), DBH 100 cm, 30. 9. 2022 leg. et det. J. Holec, JH 219/2022 (PRM 959026). – elev. 800 m, *Picea*: decaying stump covered with mosses, 6. 9. 2021 leg. et det. M. Beran (herb. Beran).
- Galerina camerina* (Fr.) Kühner – elev. 800 m, *Picea*: decaying stump covered with mosses, 6. 9. 2021 leg. et det. M. Beran (herb. Beran).
- Galerina hypnorum* (Schrank) Kühner – elev. 815 m, *Abies*: fallen trunk (DA19), decay stage 3, DBH 85 cm, 29. 9. 2022 leg. et det. J. Holec, JH 144/2022.
- Galerina marginata* (Batsch) Kühner – elev. 800 m, *Picea*: fallen decaying trunk covered with mosses, 19. 10. 2021 not. J. Holec. – elev. 800 m, *Picea*: decaying stump, 9. 11. 2021 not. J. Holec and P. Zehnálek. – elev. 800 m, *Fagus*: fallen trunk (DF20), decay stage 3, DBH 85 cm, on branch, 30. 9. 2022 not. J. Holec.
- Galerina mniophila* (Lasch) Kühner – elev. 800 m, *Picea*: decaying stump covered with mosses, 7. 9. 2021 leg. et det. M. Beran (herb. Beran).
- Galerina sideroides* (Bull.) Kühner – elev. 805 m, *Picea*: fallen trunk (DP13), decay stage 4, DBH 90 cm, 9. 8. 2021 not. J. Holec.
- Galerina* cf. *similis* Kühner – elev. 785 m, *Fagus*: fallen trunk (DF22), decay stage 4, DBH 100 cm, in litter, 30. 11. 2022 leg. et det. J. Holec, JH 433/2022 (PRM 959096), photographed.
- Galerina stordalii* A.H. Smith – elev. 805 m, *Picea*: fallen trunk (DP13), decay stage 4, DBH 90 cm, 16. 6. 2021 leg. et det. J. Holec, JH 103/2021 (PRM 957278).
- Galerina triscopa* (Fr.) Kühner – elev. 800 m, *Abies*: fallen decaying trunk covered with mosses, 6. 9. 2021 not. J. Holec. – elev. 800 m, decaying conifer stump, 9. 11. 2021 not. J. Holec and P. Zehnálek. – elev. 815 m, *Picea*: fallen trunk (DP03), decay stage 3, DBH 110 cm, 29. 9. 2022 leg. et det. J. Holec, JH 152/2022, photographed.
- Ganoderma applanatum* (Pers.) Pat. – elev. 815 m, *Abies*: fallen trunk (DA19), decay stage 3, DBH 85 cm, 15. 6. 2021 not. J. Holec. – elev. 800 m, *Fagus*: fallen trunk (DF20), decay stage 3, DBH 85 cm, 17. 6. 2022 not. J. Holec.
- Globulicium hiemale* (Laurila) Hjortstam – elev. 810 m, *Picea*: fallen trunk (DP08), decay stage 2, DBH 95 cm, 15. 11. 2021 leg. et det. J. Holec, JH 473/2021 (PRM 957197). – elev. 810 m, *Picea*: fallen trunk (DP12), decay stage 4/5 (trunk strongly decayed, loosing its original shape), DBH 100 cm, 16. 11. 2021 leg. et det. J. Holec, JH 524/2021 (PRM 957218). – elev. 815 m, *Picea*: fallen trunk (DP04), decay stage 3, DBH 115 cm, on protruding branch, 29. 9. 2022 leg. et det. J. Holec, JH 163/2022 (PRM 959017). – elev. 820 m, *Picea*: fallen trunk (DP06), decay stage 1, DBH 110 cm, on protruding branch, 29. 9. 2022 leg. et det. J. Holec, JH 175/2022. – elev. 810 m, *Abies*: freshly fallen trunk (DA11), on branch sticking out into the air, 30. 9. 2022 leg. et det. J. Holec, JH 215/2022. – elev. 810 m, *Picea*: fallen trunk (DP12), decay stage 4/5 (trunk strongly decayed, loosing its original shape), DBH 100 cm, on protruding branch, 30. 9. 2022 leg. et det. J. Holec, JH 224/2022.
- Gloeophyllum odoratum* (Wulfen) Imazeki – elev. 810 m, *Picea*: fallen trunk (DP12), decay stage 4/5 (trunk strongly decayed, loosing its original shape), DBH 100 cm, 15. 6. 2021 not. J. Holec.
- Graddonia coracina* (Bres.) Dennis – elev. 810 m, *Fagus*: fallen branch without bark, in stream water, 10. 5. 2022 leg. J. Holec and P. Zehnálek, det. J. Holec, JH 3/2022 (PRM 959002). – elev. 800 m, branch of a broadleaved tree in the stream, 11. 10. 2022 leg. B. Kučerová, P. Zehnálek, det. M. Šandová (PRM 959375).

- Graphium calicioides* (Fr.) Cooke & Masee – elev. 780 m, *Fagus*: fallen trunk (DF23), decay stage 5, DBH 90 cm, 22. 11. 2022 leg. B. Kučerová, P. Zehnálek, det. M. Šandová (PRM 959378).
- Gymnopilus bellulus* (Peck) Murrill – elev. 800 m, *Abies*: fallen decaying trunk covered with mosses, 6. 9. 2021 not. J. Holec. – elev. 795 m, *Picea*: fallen trunk (DP18), decay stage 4, DBH 90 cm, 30. 9. 2022 leg. et det. J. Holec, JH 274/2022 (PRM 959036).
- Gymnopilus penetrans* (Fr.) Murrill – elev. 800 m, *Picea*: decaying stump, 6. 9. 2021 not. J. Holec. – elev. 800 m, *Fagus*: fallen decaying trunk, 19. 10. 2021 not. J. Holec. – elev. 800 m, decayed conifer wood, 9. 11. 2021 not. J. Holec and P. Zehnálek. – elev. 800 m, *Fagus*: fallen trunk (DF20), decay stage 3, DBH 85 cm, on branch, 30. 9. 2022 not. J. Holec.
- Gymnopilus picreus* (Pers.) Gillet – elev. 800 m, *Picea*: fallen decaying trunk, 6. 9. 2021 not. J. Holec. – elev. 815 m, *Abies*: fallen trunk (DA07), decay stage 4/5 (trunk strongly decayed, losing its original shape), DBH 90 cm, 29. 9. 2022 leg. et det. J. Holec, JH 184/2022 (PRM 959023).
- Gymnopus aquosus* (Bull.) Antonín & Noordel. – elev. 810 m, in fallen decaying leaves, 15. 8. 2023 not. J. Holec.
- Gymnopus confluens* (Pers.) Antonín, Halling & Noordel. – elev. 800 m, in detritus, 6. 9. 2021 not. J. Holec. – elev. 810 m, in fallen decaying leaves, 15. 8. 2023 not. J. Holec.
- Gymnopus fagiphilus* (Velen.) Antonín, Halling & Noordel. – elev. 790 m, in fallen leaves under *Fagus*, 19. 10. 2021 leg. et det. J. Holec, JH 390/2021 (PRM 957155), photographed.
- Gymnopus peronatus* (Bolton) Gray – elev. 800 m, in fallen decaying leaves, 7. 9. 2021 not. J. Holec. – elev. 800 m, in detritus, 19. 10. 2021 not. J. Holec. – elev. 800 m, in detritus, 14. 9. 2022 not. J. Holec. – elev. 800 m, in detritus, 26. 10. 2022 not. J. Holec.
- Gyromitra infula* (Schaeff.) Quél. – elev. 785 m, *Fagus*: fallen trunk (DF22), decay stage 4, DBH 100 cm, in litter, 30. 11. 2022 not. J. Holec.
- Helicogloea dryina* Spirin & O. Miettinen – elev. 815 m, *Abies*: fallen trunk (DA19), decay stage 3, DBH 85 cm, 15. 11. 2021 leg. et det. J. Holec, JH 414/2021 (PRM 957175). – elev. 800 m, *Abies*: fallen trunk (DA17), decay stage 3, DBH 95 cm, 16. 11. 2021 leg. et det. J. Holec, JH 588/2021 (PRM 957234).
- Hemimycena substellata* (Kühner) Antonín & Noordel. – elev. 800 m, *Fagus*: fallen trunk (DF24), decay stage 2, DBH 75 cm, 1. 10. 2022 leg. et det. J. Holec, JH 316/2022 (PRM 959088).
- Hericium flagellum* (Scop.) Pers. – elev. 800 m, *Abies*: fallen decaying trunk, 6. 9. 2021 not. J. Holec. – elev. 800 m, *Abies*: fallen decaying trunk, at base, 19. 10. 2021 not. J. Holec. – elev. 800 m, conifer stump, 9. 11. 2021 not. J. Holec and P. Zehnálek.
- Heterobasidion annosum* (Fr.) Bref. agg. – elev. 815 m, *Abies*: fallen trunk (DA19), decay stage 3, DBH 85 cm, 15. 6. 2021 not. J. Holec.
- Hohenbuehelia josserrandii* Consiglio & Setti – elev. 810 m, *Abies*: fallen trunk (DA11), decay stage 1, DBH 105 cm, 16. 11. 2021 leg. et det. J. Holec, JH 511/2021 (PRM 957211), photographed. – elev. 810 m, *Abies*: freshly fallen trunk (DA11), on branch sticking out into the air, 9. 8. 2021 leg. et det. J. Holec, JH 253/2021.
- Holwaya mucida* (Schulz.) Korf & Abawi – elev. 800 m, *Sorbus aucuparia* trunk lying across the stream, 11. 10. 2022 leg. B. Kučerová, P. Zehnálek, det. B. Kučerová (PRM 960596).
- Hydnum elliposporum* Ostrow & Beenken – elev. 820 m, under *Fagus*, 6. 9. 2021 leg. J. Holec, det. P. Vampola, JH 354/2021 (PRM 957130).
- Hydnum repandum* L. – elev. 800 m, under *Fagus*, 6. 9. 2021 not. J. Holec.
- Hydnum rufescens* Fr. – elev. 800 m, under *Fagus*, *Abies*, *Picea*, bank of a stream, 7. 9. 2021 not. J. Holec.
- Hydopus marginellus* (Pers.) Singer – elev. 800 m, *Abies*: fallen decaying trunk, 7. 9. 2021 not. J. Holec. – elev. 800 m, decaying conifer stump covered with mosses, 13. 7. 2022 not. J. Holec, photographed. – elev. 805 m, *Picea*: fallen trunk (DP13), decay stage 4, DBH 90 cm, 9. 8. 2021 not. J. Holec.
- Hygrophoropsis aurantiaca* (Wulf) Maire – elev. 800 m, decaying conifer stump, 9. 11. 2021 not. J. Holec.
- Hygrophorus olivaceoalbus* (Fr.) Fr. – elev. 800 m, under *Fagus*, *Picea*, 6. 9. 2021 not. J. Holec.
- Hygrophorus penarius* Fr. – elev. 800 m, under *Fagus*, *Picea*, 6. 9. 2021 not. J. Holec. – elev. 800 m, under *Fagus*, in fallen leaves, 19. 10. 2021 not. J. Holec. – elev. 780 m, under *Fagus*, 11. 10. 2022 leg. et det. P. Zehnálek, PZDBR15 (PRM 959227).
- Hymenochaete cruenta* (Pers.) Donk – elev. 810 m, *Abies*: fallen trunk, on branch sticking out into the air, 9. 11. 2021 not. J. Holec and P. Zehnálek.

- Hymenoscyphus* cf. *caudatus* (P. Karst.) Dennis – elev. 800 m, leaf (most probably *Fagus*) in the stream, 11. 10. 2022 leg. B. Kučerová, P. Zehnálek, det. B. Kučerová (PRM 958577).
- Hymenoscyphus* cf. *lutescens* (Hedw.) W. Phillips – elev. 800 m, *Picea* cone in the stream, 11. 10. 2022 leg. B. Kučerová, P. Zehnálek, det. B. Kučerová (PRM 958581).
- Hypoderma argillaceum* (Bres.) Donk – elev. 815 m, *Abies*: fallen trunk (DA19), decay stage 3, DBH 85 cm, 9. 8. 2021 leg. et det. J. Holec, JH 214/2021 (PRM 957239). – elev. 815 m, *Abies*: fallen trunk (DA19), decay stage 3, DBH 85 cm, 15. 6. 2021 leg. et det. J. Holec, JH 53/2021 (PRM 957265). – elev. 815 m, *Picea*: fallen trunk (DP09), decay stage 3, DBH 130 cm, 15. 6. 2021 leg. et det. J. Holec, JH 96/2021 (PRM 957276).
- Hypoderma capitatum* J. Erikss. & Strid – elev. 815 m, *Abies*: fallen trunk (DA07), decay stage 4/5 (trunk strongly decayed, loosing its original shape), DBH 90 cm, 15. 11. 2021 leg. et det. J. Holec, JH 461/2021 (PRM 957192). – elev. 815 m, *Picea*: fallen trunk (DP10), decay stage 3, DBH 95 cm, 15. 11. 2021 leg. et det. J. Holec, JH 503/2021 (PRM 957206).
- Hypoderma cremeoalbum* (Höhn. & Litsch.) Jülich – elev. 810 m, *Picea*: fallen trunk (DP14), decay stage 2, DBH 100 cm, 16. 11. 2021 leg. et det. J. Holec, JH 539/2021 (PRM 957221). – elev. 785 m, *Fagus*: fallen trunk (DF22), decay stage 4, DBH 100 cm, 17. 6. 2022 not. J. Holec.
- Hypoderma medioburiense* (Burt) Donk – elev. 800 m, *Fagus*: fallen trunk (DF20), decay stage 3, DBH 85 cm, on branch, 17. 6. 2022 leg. et det. J. Holec, JH 17/2022 (PRM 959055).
- Hypoderma obtusifforme* J. Erikss. & Å. Strid – elev. 815 m, *Picea*: fallen trunk (DP10), decay stage 3, DBH 95 cm, 29. 9. 2022 leg. et det. J. Holec, JH 202/2022 (PRM 959024).
- Hypoderma roseocreum* (Bres.) Donk – elev. 800 m, *Fagus*: fallen trunk (DF20), decay stage 3, DBH 85 cm, on branch, 17. 6. 2022 leg. et det. J. Holec, JH 12/2022 (PRM 959053).
- Hypoderma setigerum* (Fr.) Donk – elev. 800 m, *Fagus*: fallen trunk (DF24), decay stage 2, DBH 75 cm, on branch, 11. 8. 2022 leg. et det. J. Holec, JH 83/2022 (PRM 959068).
- Hypodiscus otanii* Hosoya – elev. 790 m, *Fagus*: fallen trunk (DF21), decay stage 1, 31. 8. 2022 leg. B. Kučerová, J. Holec, P. Zehnálek, det. M. Šandová (PRM 959369). – elev. 780 m, *Fagus*: fallen trunk (DF23), decay stage 5, DBH 90 cm, 22. 11. 2022 leg. B. Kučerová, P. Zehnálek, det. M. Šandová (PRM 959380).
- Hypodontia abieticola* (Bourdot & Galzin) J. Erikss. – elev. 805 m, *Picea*: fallen trunk (DP13), decay stage 4, DBH 90 cm, 10. 8. 2021 leg. et det. J. Holec, JH 292/2021 (PRM 957260).
- Hypodontia alutaria* (Burt) J. Erikss. – elev. 815 m, *Picea*: fallen trunk (DP09), decay stage 3, DBH 130 cm, 15. 11. 2021 leg. et det. J. Holec, JH 491/2021 (PRM 957202). – elev. 805 m, *Abies*: fallen trunk (DA15), decay stage 4, DBH 115 cm, 16. 11. 2021 leg. et det. J. Holec, JH 557/2021 (PRM 957227). – elev. 815 m, *Picea*: fallen trunk (DP09), decay stage 3, DBH 130 cm, 29. 9. 2022 leg. et det. J. Holec, JH 197/2022.
- Hypodontia pallidula* (Bres.) J. Erikss. – elev. 815 m, *Abies*: fallen trunk (DA19), decay stage 3, DBH 85 cm, 15. 11. 2021 leg. et det. J. Holec, JH 409/2021 (PRM 957173).
- Hypoloma capnoides* (Fr.) P. Kumm. – elev. 800 m, *Picea*: fallen decaying trunk, 19. 10. 2021 not. J. Holec. – elev. 800 m, decaying conifer stump covered with mosses, 9. 11. 2021 not. J. Holec.
- Hypoloma fasciculare* (Huds.) P. Kumm. – elev. 800 m, *Fagus*: on stump without bark, 6. 9. 2021 not. J. Holec. – elev. 800 m, *Picea*: at base of living tree, 13. 7. 2022 not. J. Holec, photographed. – elev. 800 m, *Fagus*: fallen trunk (DF20), decay stage 3, DBH 85 cm, 30. 9. 2022 not. J. Holec.
- Hypoloma lateritium* (Schaeff.) P. Kumm. – elev. 800 m, *Fagus*: fallen decaying trunk, 7. 9. 2021 not. J. Holec. – elev. 785 m, *Fagus*: fallen trunk (DF22), decay stage 4, DBH 100 cm, 1. 10. 2022 not. J. Holec.
- Hypoloma marginatum* (Pers.) J. Schröt. – elev. 820 m, *Picea*: fallen trunk (DP05), decay stage 2, DBH 120 cm, 15. 11. 2021 not. J. Holec. – elev. 797 m, in litter and on twigs under *Fagus*, 11. 10. 2022 leg. et det. P. Zehnálek, PZDBR12 (PRM 959226).
- Hypoloma subviride* (Berk. & M.A. Curtis) Dennis – elev. 800 m, *Picea*: fallen trunk without bark, 6. 9. 2021 not. J. Holec. – elev. 790 m, *Fagus*: fallen trunk (DF21), decay stage 1, DBH 95 cm, 30. 11. 2022 not. J. Holec.
- Hypocrea citrina* (Pers.) Fr. – elev. 780 m, on the ground under *Abies*, 22. 11. 2022 leg. B. Kučerová, P. Zehnálek, det. P. Zehnálek, B. Kučerová (PRM 958574, as *Trichoderma c.*). – elev. 800 m, *Fagus*: fallen trunk (DF24), decay stage 2, DBH 75 cm, 1. 10. 2022 leg. et det. J. Holec, JH 317/2022 (PRM 959089).

- Hypocrea minutispora* B.S. Lu, Fallah & Samuels – elev. 800 m, *Fagus*: fallen trunk (DF20), decay stage 3, DBH 85 cm, 30. 11. 2022 leg. et det. J. Holec, JH 415/2022 (PRM 959092).
- Hypocrea rufa* (Pers.) Fr. – elev. 820 m, *Picea*: fallen trunk (DP05), decay stage 2, DBH 120 cm, 9. 8. 2021 leg. et det. J. Holec, JH 231/2021 (PRM 957245).
- Hypochniciellum ovoideum* (Jülich) Hjortstam & Ryvarden – elev. 805 m, *Abies*: fallen trunk (DA15), decay stage 4, DBH 115 cm, 16. 11. 2021 leg. et det. J. Holec, JH 563/2021 (PRM 957229).
- Hypochnicium albostramineum* (Bres.) Hallenb. – elev. 815 m, *Picea*: fallen trunk (DP04), decay stage 3, DBH 115 cm, 15. 11. 2021 leg. et det. J. Holec, JH 437/2021 (PRM 957184). – elev. 820 m, *Picea*: fallen trunk (DP06), decay stage 1, DBH 110 cm, 29. 9. 2022 leg. et det. J. Holec, JH 173/2022. – elev. 800 m, *Fagus*: fallen trunk (DF24), decay stage 2, DBH 75 cm, 1. 10. 2022 leg. et det. J. Holec, JH 320/2022 (PRM 959090).
- Hypochnicium erikssonii* Hallenb. & Hjortstam – elev. 815 m, *Abies*: fallen trunk (DA19), decay stage 3, DBH 85 cm, 15. 11. 2021 leg. et det. J. Holec, JH 415/2021 (PRM 957176). – elev. 815 m, *Picea*: fallen trunk (DP09), decay stage 3, DBH 130 cm, 15. 11. 2021 leg. et det. J. Holec, JH 482/2021 (PRM 957200). – elev. 800 m, *Fagus*: fallen trunk (DF20), decay stage 3, DBH 85 cm, 30. 9. 2022 leg. et det. J. Holec, JH 276/2022 (PRM 959070).
- Hypochnicium subrigescens* Boidin – elev. 805 m, *Abies*: fallen trunk (DA15), decay stage 4, DBH 115 cm, 16. 11. 2021 leg. et det. J. Holec, JH 561/2021 (PRM 957228). – elev. 810 m, *Picea*: fallen trunk (DP14), decay stage 2, DBH 100 cm, 10. 8. 2021 leg. et det. J. Holec, JH 303/2021 (PRM 957262). – elev. 815 m, *Picea*: fallen trunk (DP09), decay stage 3, DBH 130 cm, 29. 9. 2022 leg. et det. J. Holec, JH 193/2022. – elev. 815 m, *Picea*: fallen trunk (DP10), decay stage 3, DBH 95 cm, 29. 9. 2022 leg. et det. J. Holec, JH 209/2022.
- Hypoxylon cohaerens* (Pers.) Fr. – elev. 800 m, *Fagus*: fallen branch without bark, 9. 11. 2021 not. J. Holec. – elev. 790 m, *Fagus*: fallen trunk (DF21), decay stage 1, DBH 95 cm, 31. 8. 2022 leg. B. Kučerová, J. Holec, P. Zehnálek, det. B. Kučerová (PRM 958557, as *Jackrogersella c.*). – elev. 790 m, *Fagus*: fallen trunk (DF21), decay stage 1, DBH 95 cm, 17. 6. 2022 leg. et det. J. Holec, JH 24/2022 (PRM 959059, as *Jackrogersella c.*).
- Hypoxylon fragiforme* (Pers.) Kickx – elev. 800 m, *Fagus*: freshly fallen trunk, 6. 9. 2021 not. J. Holec. – elev. 800 m, *Fagus*: fallen branch without bark, 9. 11. 2021 not. J. Holec. – elev. 800 m, *Fagus*: fallen trunk (DF20), decay stage 3, DBH 85 cm, 17. 6. 2022 not. J. Holec.
- Hypoxylon rubiginosum* (Pers.) Fr. – elev. 800 m, *Fagus*: fallen trunk (DF20), decay stage 3, DBH 85 cm, 22. 11. 2022 leg. B. Kučerová, P. Zehnálek, det. P. Zehnálek, B. Kučerová (PRM 958608).
- Imleria badia* (Fr.) Vizzini – elev. 800 m, under *Fagus*, *Abies*, *Picea*, 6. 9. 2021 not. J. Holec. – elev. 800 m, under *Fagus*, *Abies*, *Picea*, 14. 9. 2022 not. J. Holec. – elev. 800 m, under *Fagus*, *Abies*, *Picea*, 26. 10. 2022 not. J. Holec.
- Immotthia atrograna* (Cooke & Ellis) M.E. Barr – elev. 800 m, *Fagus*: fallen trunk (DF24), decay stage 2, DBH 75 cm, on old stromata of *Hypoxylon cohaerens*, 31. 8. 2022 leg. B. Kučerová, J. Holec, P. Zehnálek, det. B. Kučerová (PRM 958565).
- Inocybe assimilata* (Britzelm.) Sacc. – elev. 800 m, under *Fagus*, 7. 9. 2021 not. J. Holec.
- Inocybe napipes* J.E. Lange – elev. 800 m, under *Fagus*, *Abies*, *Picea*, 6. 9. 2021 not. J. Holec. – elev. 800 m, on decayed wood of *Picea* stump, 13. 7. 2022 not. J. Holec.
- Inocybe petiginosa* (Fr.) Gillet – elev. 800 m, under *Fagus*, *Abies*, 6. 9. 2021 not. J. Holec. – elev. 800 m, in detritus close to fallen *Fagus* trunk, 4. 8. 2022 not. J. Holec. – elev. 785 m, *Fagus*: fallen trunk (DF22), decay stage 4, DBH 100 cm, in litter, 1. 10. 2022 not. J. Holec.
- Inocybe praetervisa* Quéf. – elev. 790 m, under *Fagus* near stream, 7. 9. 2021 leg. et det. J. Holec, JH 361/2021 (PRM 957135).
- Inocybe soluta* Velen. – elev. 800 m, close to stream, 6. 9. 2021 leg. et det. M. Beran (herb. Beran).
- Inocybe virgatula* Kühner – elev. 815 m, *Fagus*: fallen branch without bark, 14. 9. 2022 leg. J. Holec, det. M. Beran and J. Holec, JH 97/2022 (PRM 959044), photographed.
- Inonotus hastifer* Pouzar – elev. 800 m, *Fagus*: fallen branch with bark, 7. 9. 2021 not. J. Holec. – elev. 800 m, *Fagus*: freshly fallen trunk, diam. 8 cm, 16. 6. 2022 not. J. Holec. – elev. 800 m, *Fagus*: on stump, diam. 7 cm, 26. 10. 2022 not. J. Holec.
- Ischnoderma benzoinum* (Wahl.) P. Karst. – elev. 815 m, *Picea*: fallen trunk (DP03), decay stage 3, DBH

- 110 cm, 29. 9. 2022 not. J. Holec. – elev. 785 m, *Fagus*: fallen trunk (DF22), decay stage 4, DBH 100 cm, 1. 10. 2022 leg. J. Holec, det. P. Vampola, JH 304/2022 (PRM 959083).
- Jaapia ochroleuca*** (Bres.) Nannf. & J. Erikss. – elev. 805 m, *Picea*: fallen trunk (DP13), decay stage 4, DBH 90 cm, 16. 11. 2021 leg. et det. J. Holec, JH 533/2021 (PRM 957219).
- Kneiffiella cineracea*** (Bourdot & Galzin) Jülich & Stalpers – elev. 820 m, *Picea*: fallen trunk (DP05), decay stage 2, DBH 120 cm, 15. 11. 2021 leg. et det. J. Holec, JH 447/2021 (PRM 957187).
- Kneiffiella floccosa*** (Bourdot & Galzin) Jülich & Stalpers – elev. 810 m, *Picea*: fallen trunk (DP12), decay stage 4/5 (trunk strongly decayed, loosing its original shape), DBH 100 cm, 15. 6. 2021 leg. et det. J. Holec, JH 82/2021 (PRM 957274, as *Hyphodontia f.*) – elev. 810 m, *Picea*: fallen trunk (DP12), decay stage 4/5 (trunk strongly decayed, loosing its original shape), DBH 100 cm, 30. 9. 2022 leg. et det. J. Holec, JH 222/2022 (PRM 959028).
- Kuehneromyces mutabilis*** (Schaeff.) Singer & A.H. Smith – elev. 800 m, *Fagus*: fallen decaying trunk, 13. 7. 2022 not. J. Holec. – elev. 800 m, *Fagus*: fallen trunk (DF20), decay stage 3, DBH 85 cm, 30. 9. 2022 not. J. Holec.
- Laccaria amethystina*** Cooke – elev. 800 m, under *Fagus*, *Abies*, *Picea*, 6. 9. 2021 not. J. Holec. – elev. 800 m, under *Fagus*, *Abies*, *Picea*, 19. 10. 2021 not. J. Holec. – elev. 800 m, under *Fagus*, 9. 11. 2021 not. J. Holec and P. Zehnálek. – elev. 800 m, under *Fagus*, *Abies*, *Picea*, 14. 9. 2022 not. J. Holec. – elev. 800 m, under *Fagus*, *Abies*, *Picea*, 26. 10. 2022 not. J. Holec.
- Laccaria laccata*** (Scop.) Cooke – elev. 800 m, under *Fagus*, *Abies*, *Picea*, 6. 9. 2021 not. J. Holec. – elev. 810 m, under *Fagus*, *Abies*, *Picea*, 15. 8. 2023 not. J. Holec.
- Lachnum virgineum*** (Batsch) P. Karst. – elev. 800 m, *Fagus*: on the inner surface of the wood of a rotten branch (bark preserved) by the stream, 11. 10. 2022 leg. B. Kučerová, P. Zehnálek, det. M. Šandová (PRM 959376). – elev. 780 m, *Fagus*: fallen trunk (DF23), decay stage 5, DBH 90 cm, 22. 11. 2022 leg. B. Kučerová, P. Zehnálek, det. M. Šandová (PRM 958595).
- Lactarius albocarneus*** Britzelm. – elev. 805 m, under *Fagus* and *Abies*, 19. 10. 2021 leg. et det. J. Holec, JH 388/2021 (PRM 957153). – elev. 800 m, under *Fagus*, *Abies*, *Picea*, damp place, 6. 9. 2021 not. J. Holec and M. Beran.
- Lactarius aurantiacus*** (Pers.) S.F. Gray – elev. 800 m, under *Picea*, *Abies*, 6. 9. 2021 not. J. Holec.
- Lactarius blennius*** (Fr.) Fr. – elev. 800 m, under *Fagus*, *Picea*, 7. 9. 2021 not. J. Holec. – elev. 820 m, under *Fagus*, 14. 9. 2022 not. J. Holec.
- Lactarius camphoratus*** (Bull.) Fr. – elev. 800 m, under *Picea*, damp place, 6. 9. 2021 not. J. Holec. – elev. 800 m, under *Picea* and *Fagus*, close to a stream, 4. 8. 2022 not. J. Holec. – elev. 800 m, under *Picea*, 14. 9. 2022 not. J. Holec.
- Lactarius helvus*** (Fr.) Fr. – elev. 800 m, under *Fagus*, *Abies*, *Picea*, 6. 9. 2021 not. J. Holec.
- Lactarius pallidus*** (Pers.) Fr. – elev. 800 m, under *Fagus*, *Abies*, *Picea*, 26. 10. 2022 not. J. Holec.
- Lactarius piperatus*** (L.) Pers. – elev. 795 m, under *Picea*, *Fagus*, 15. 8. 2023 leg. et det. J. Holec, JH 138/2023 (herb. Holec).
- Lactarius rufus*** (Scop.) Fr. – elev. 800 m, under *Fagus*, *Abies*, *Picea*, 6. 9. 2021 not. J. Holec. – elev. 800 m, under *Picea*, 14. 9. 2022 not. J. Holec.
- Lactarius subdulcis*** (Bull.) Gray – elev. 800 m, under *Fagus*, *Abies*, 6. 9. 2021 not. J. Holec. – elev. 800 m, under *Fagus*, *Abies*, *Picea*, 19. 10. 2021 not. J. Holec. – elev. 810 m, under *Fagus*, *Abies*, *Picea*, 15. 8. 2023 not. J. Holec.
- Lactarius tabidus*** Fr. – elev. 800 m, under *Picea*, *Fagus*, damp place, 6. 9. 2021 not. J. Holec.
- Lachnum virgineum*** (Batsch) P. Karst. – elev. 800 m, *Fagus*: on the inner surface of the wood of a rotten branch (bark preserved) by the stream, 11. 10. 2022 leg. B. Kučerová, P. Zehnálek, det. M. Šandová (PRM 959376).
- Lasiosphaeria glabrata*** (Fr.) Valade – elev. 790 m, *Fagus*: fallen trunk (DF21), decay stage 1, DBH 95 cm, 22. 11. 2022 leg. B. Kučerová, P. Zehnálek, det. P. Mlčoch, B. Kučerová (PRM 958607).
- Lasiosphaeria ovina*** (Fr.) Ces. & De Not. – elev. 800 m, *Fagus*: fallen trunk (DF24), decay stage 2, DBH 75 cm, 22. 11. 2022 leg. B. Kučerová, P. Zehnálek, det. P. Zehnálek, B. Kučerová (PRM 958583).
- Lasiosphaeria hirsuta*** (Fr.) A.N. Mill. & Huhndorf – elev. 790 m, *Fagus*: fallen trunk (DF21), decay stage 1, DBH 95 cm, 22. 11. 2022 leg. B. Kučerová, P. Zehnálek, det. B. Kučerová (PRM 958603).
- Laxitextum bicolor*** (Pers.) Lentz – elev. 800 m, *Fagus*: fallen branch without bark, 6. 9. 2021 not. J. Holec.

- elev. 800 m, *Fagus*: fallen branch without bark, 19. 10. 2021 not. J. Holec. – elev. 800 m, *Fagus*: fallen branch without bark, 9. 11. 2021 not. J. Holec.
- Lentinellus castoreus* (Fr.) Konrad & Maubl. – elev. 800 m, fallen decaying trunk of a conifer, 6. 9. 2021 not. J. Holec. – elev. 800 m, *Abies*: fallen decaying trunk, at base, 19. 10. 2021 not. J. Holec.
- Leotia lubrica* (Scop.) Pers. – elev. 800 m, in fallen decaying leaves, 6. 9. 2021 not. J. Holec. – elev. 800 m, on the ground next to the stream, 11. 10. 2022 leg. B. Kučerová, P. Zehnálek, det. P. Zehnálek (PRM 958579).
- Leptodontidium trabinellum* (P. Karst.) Baral, Platas & R. Galán – elev. 780 m, *Fagus*: fallen trunk (DF23), decay stage 5, DBH 90 cm, 22. 11. 2022 leg. B. Kučerová, P. Zehnálek, det. M. Šandová (PRM 959378).
- Leptosporomyces fuscostratus* (Burt) Hjortstam – elev. 815 m, *Picea*: fallen trunk (DP03), decay stage 3, DBH 110 cm, 15. 11. 2021 leg. et det. J. Holec, JH 425/2021 (PRM 957182). – elev. 820 m, *Picea*: fallen trunk (DP05), decay stage 2, DBH 120 cm, 15. 11. 2021 leg. et det. J. Holec, JH 449/2021 (PRM 957188). – elev. 815 m, *Picea*: fallen trunk (DP03), decay stage 3, DBH 110 cm, 9. 8. 2021 leg. et det. J. Holec, JH 218/2021 (PRM 957242).
- Leptosporomyces galzinii* (Bourdot) Jülich – elev. 815 m, *Abies*: fallen trunk (DA07), decay stage 4/5 (trunk strongly decayed, loosing its original shape), DBH 90 cm, 15. 11. 2021 leg. et det. J. Holec, JH 466/2021 (PRM 957193). – elev. 815 m, *Abies*: fallen trunk (DA07), decay stage 4/5 (trunk strongly decayed, loosing its original shape), DBH 90 cm, 9. 8. 2021 leg. et det. J. Holec, JH 241/2021 (PRM 957248).
- Leptosporomyces mundus* (H.S. Jacks. & Dearden) Jülich – elev. 815 m, *Picea*: fallen trunk (DP10), decay stage 3, DBH 95 cm, 15. 11. 2021 leg. et det. J. Holec, JH 494/2021 (PRM 957203).
- Leratiomyces squamosus* (Pers.) Bridge & Spooner – elev. 800 m, in detritus under *Fagus*, *Picea*, 7. 9. 2021 not. J. Holec.
- Lichenomphalia umbellifera* (L.) Redhead et al. – elev. 820 m, *Picea*: fallen trunk (DP05), decay stage 2, DBH 120 cm, 9. 8. 2021 not. J. Holec.
- Lycoperdon perlatum* Pers. – elev. 800 m, *Fagus*: fallen decaying trunk, 7. 9. 2021 not. J. Holec. – elev. 810 m, *Abies*: fallen trunk (DA16), decay stage 3, DBH 95 cm, 30. 9. 2022 not. J. Holec. – elev. 800 m, *Fagus*: fallen trunk (DF20), decay stage 3, DBH 85 cm, 30. 9. 2022 not. J. Holec.
- Lycoperdon pyriforme* Schaeff. – elev. 800 m, decaying conifer stump, 6. 9. 2021 not. J. Holec. – elev. 785 m, *Fagus*: fallen trunk (DF22), decay stage 4, DBH 100 cm, 1. 10. 2022 not. J. Holec.
- Megacollybia platyphylla* (Pers.) Kotl. & Pouzar – elev. 800 m, in detritus, 6. 9. 2021 not. J. Holec. – elev. 800 m, in detritus close a fallen *Fagus* trunk, 13. 7. 2022 not. J. Holec.
- Melanomma pulvis-pyrius* (Pers.) Fuckel – elev. 800 m, *Fagus*: fallen trunk (DF24), decay stage 2, DBH 75 cm, 31. 8. 2022 leg. B. Kučerová, J. Holec, P. Zehnálek, det. P. Zehnálek, B. Kučerová (PRM 958563).
- Melanophyllum haematospermum* (Bull.) Kreisel – elev. 802 m, on soil beside creek, 11. 10. 2022 leg. et det. P. Zehnálek, PZDBR20 (PRM 959339), photographed.
- Melogramma spiniferum* (Wallr.) De Not. – elev. 800 m, *Fagus*: at base of a stump, 9. 11. 2021 leg. J. Holec and P. Zehnálek, det. P. Zehnálek. – elev. 800 m, *Fagus*: fallen trunk (DF24), decay stage 2, twig on the ground, 31. 8. 2022 leg. B. Kučerová, J. Holec, P. Zehnálek, det. B. Kučerová (PRM 958561).
- Mollisia* cf. *cinerea* (Batsch) P. Karst. – elev. 800 m, *Fagus*: fallen trunk (DF20), decay stage 3, DBH 85 cm, 31. 8. 2022 leg. B. Kučerová, J. Holec, P. Zehnálek, det. M. Šandová, B. Kučerová (PRM 958549).
- Mollisia elegantior* (Graddon) Baral – elev. 780 m, *Fagus*: fallen trunk (DF23), decay stage 5, DBH 90 cm, 22. 11. 2022 leg. B. Kučerová, P. Zehnálek, det. M. Šandová (PRM 958595).
- Mollisia ligni* (Desm.) P. Karst. – elev. 780 m, *Fagus*: fallen trunk (DF23), decay stage 5, DBH 90 cm, 22. 11. 2022 leg. B. Kučerová, P. Zehnálek, det. B. Kučerová (PRM 958597).
- Mollisia uda* (Pers.) Gillet – elev. 800 m, branch of a broadleaved tree in the stream, 11. 10. 2022 leg. B. Kučerová, P. Zehnálek, det. M. Šandová (PRM 959372).
- Mollisia ventosa* (P. Karst.) P. Karst. – elev. 785 m, fallen trunk of a broadleaved tree, 16. 6. 2022 leg. et det. J. Holec, JH 8/2022 (PRM 959005). – elev. 800 m, branch of a broadleaved tree next to the stream, 11. 10. 2022 leg. B. Kučerová, P. Zehnálek, det. M. Šandová (PRM 959373).
- Mucidula mucida* (Schräd.) Pat. – elev. 800 m, *Fagus*: freshly fallen trunk, 6. 9. 2021 not. J. Holec. – elev. 800 m, *Fagus*: freshly fallen trunk, 14. 9. 2022 not. J. Holec. – elev. 790 m, *Fagus*: fallen branch without bark, 26. 10. 2022 not. J. Holec. – elev. 790 m, *Fagus*: fallen trunk (DF21), decay stage 1, DBH 95 cm, on branch, 30. 9. 2022 not. J. Holec.

- Mucronella bresadolae* (Quél.) Corner – elev. 795 m, *Picea*: fallen trunk (DP18), decay stage 4, DBH 90 cm, 16. 11. 2021 leg. et det. J. Holec, JH 593/2021 (PRM 957236). – elev. 810 m, *Picea*: fallen trunk (DP12), decay stage 4/5 (trunk strongly decayed, loosing its original shape), DBH 100 cm, 30. 9. 2022 leg. et det. J. Holec, JH 225/2022 (herb. Holec), photographed.
- Mycena abramsii* (Murrill) Murrill – elev. 815 m, *Picea*: fallen decaying trunk, 10. 5. 2022 leg. J. Holec and P. Zehnálek, det. J. Holec, photographed. – elev. 820 m, *Picea*: fallen decaying trunk covered with mosses, 10. 5. 2022 leg. J. Holec and P. Zehnálek, det. J. Holec, JH 4/2022 (PRM 959003).
- Mycena amicta* (Fr.) Quél. – elev. 800 m, wood of *Fagus* in fallen leaves, 7. 9. 2021 not. J. Holec.
- Mycena cinerella* (P. Karst.) P. Karst. – elev. 800 m, in detritus, 9. 11. 2021 not. J. Holec and P. Zehnálek. – elev. 810 m, *Picea*: fallen trunk (DP12), decay stage 4/5 (trunk strongly decayed, loosing its original shape), DBH 100 cm, 16. 11. 2021 not. J. Holec.
- Mycena epipterygia* var. *viscosa* (Secr. ex Maire) Ricken – elev. 800 m, *Picea*: at base of a mossy stump, 9. 11. 2021 not. J. Holec and P. Zehnálek.
- Mycena erubescens* Höhn. – elev. 800 m, *Fagus*: fallen trunk (DF24), decay stage 2, DBH 75 cm, 1. 10. 2022 leg. et det. J. Holec, JH 315/2022 (PRM 959087).
- Mycena fageturnum* (Fr.) Gillet – elev. 820 m, on fallen leaves of *Fagus*, 19. 10. 2021 leg. et det. J. Holec, JH 384/2021 (PRM 957150), photographed.
- Mycena filopes* (Bull.) P. Kumm. – elev. 780 m, *Fagus*: fallen trunk (DF23), decay stage 5, DBH 90 cm, 1. 10. 2022 leg. et det. J. Holec, JH 308/2022 (PRM 959085), photographed.
- Mycena flavescens* Velen. – elev. 800 m, in fallen decaying leaves, 7. 9. 2021 not. J. Holec.
- Mycena galericulata* (Scop.) Gray – elev. 800 m, *Picea*: fallen decaying trunk, 6. 9. 2021 not. J. Holec. – elev. 800 m, *Fagus*: fallen decaying branch, 19. 10. 2021 not. J. Holec. – elev. 800 m, *Fagus*: fallen trunk (DF20), decay stage 3, DBH 85 cm, 30. 9. 2022 not. J. Holec.
- Mycena galopus* (Pers.) P. Kumm. – elev. 800 m, decaying conifer stump, 9. 11. 2021 not. J. Holec and P. Zehnálek.
- Mycena haematopus* (Pers.) P. Kumm. – elev. 800 m, *Fagus*: fallen decaying trunk, 7. 9. 2021 not. J. Holec. – elev. 800 m, *Fagus*: fallen trunk (DF20), decay stage 3, DBH 85 cm, 30. 9. 2022 not. J. Holec.
- Mycena laevigata* (Lasch) Gillet – elev. 820 m, *Picea*: fallen trunk (DP05), decay stage 2, DBH 120 cm, 9. 8. 2021 not. J. Holec.
- Mycena maculata* P. Karst. – elev. 800 m, *Picea*: decaying stump, 6. 9. 2021 not. J. Holec. – elev. 800 m, *Picea*: decaying stump covered with mosses, 19. 10. 2021 not. J. Holec. – elev. 800 m, decaying conifer stump covered with mosses, 9. 11. 2021 not. J. Holec and P. Zehnálek. – elev. 800 m, *Picea*: fallen decaying trunk, 10. 5. 2022 not. J. Holec and P. Zehnálek. – elev. 810 m, *Picea*: fallen trunk (DP12), decay stage 4/5 (trunk strongly decayed, loosing its original shape), DBH 100 cm, 15. 6. 2021 not. J. Holec.
- Mycena metata* (Fr.) P. Kumm. – elev. 815 m, *Abies*: fallen trunk (DA19), decay stage 3, DBH 85 cm, 15. 11. 2021 leg. et det. J. Holec, JH 419/2021.
- Mycena pura* (Pers.) P. Kumm. – elev. 800 m, in detritus, 7. 9. 2021 not. J. Holec.
- Mycena purpureofusca* (Peck) Sacc. – elev. 800 m, *Abies*: fallen decaying trunk, 6. 9. 2021 not. J. Holec. – elev. 800 m, *Picea*: freshly fallen trunk, 10. 5. 2022 not. J. Holec and P. Zehnálek.
- Mycena rubromarginata* (Fr.) P. Kumm. – elev. 815 m, *Picea*: fallen trunk (DP04), decay stage 3, DBH 115 cm, 9. 8. 2021 not. J. Holec.
- Mycena sanguinolenta* (Alb. & Schwein.) P. Kumm. – elev. 800 m, in detritus, 7. 9. 2021 not. J. Holec. – elev. 785 m, *Fagus*: fallen trunk (DF22), decay stage 4, DBH 100 cm, 1. 10. 2022 not. J. Holec.
- Mycena silvae-nigrae* Maas Geest. & Schwöbel – elev. 807 m, on decaying stub of *Picea* covered by mosses, 24. 5. 2023 leg. et det. P. Zehnálek, PZDBR23 (PRM 959364).
- Mycena speirea* (Fr.) Gillet – elev. 790 m, *Fagus*: fallen trunk (DF21), decay stage 1, DBH 95 cm, 30. 9. 2022 leg. et det. J. Holec, JH 294/2022 (PRM 959079).
- Mycena stipitata* Maas Geest. & Schwöbel – elev. 800 m, *Picea*: fallen decaying trunk, 10. 5. 2022 not. J. Holec and P. Zehnálek.
- Mycena viridimarginata* P. Karst. – elev. 800 m, *Picea*: decaying stump, 6. 9. 2021 not. J. Holec.
- Mycena vitilis* (Fr.) Quél. – elev. 820 m, *Picea*: fallen trunk (DP05), decay stage 2, DBH 120 cm, 9. 8. 2021 not. J. Holec. – elev. 790 m, *Fagus*: fallen trunk (DF21), decay stage 1, DBH 95 cm, 30. 9. 2022 not. J. Holec.

- Mycena zephrus* (Fr.) Kumm. – elev. 800 m, in detritus, 6. 9. 2021 not. J. Holec. – elev. 800 m, in detritus, 19. 10. 2021 not. J. Holec. – elev. 800 m, *Fagus*: fallen trunk (DF20), decay stage 3, DBH 85 cm, on branch, 30. 9. 2022 not. J. Holec.
- Mycetinis alliaceus* (Jacq.) Earle ex A.W. Wilson & Desjardin – elev. 800 m, in detritus, 6. 9. 2021 not. J. Holec. – elev. 800 m, *Fagus*: fallen trunk (DF20), decay stage 3, DBH 85 cm, 30. 9. 2022 not. J. Holec.
- Mycocacia nothofagi* (G.H. Cunn.) Ryvarden – elev. 800 m, *Fagus*: fallen trunk (DF20), decay stage 3, DBH 85 cm, 30. 9. 2022 leg. et det. J. Holec, JH 278/2022 (PRM 959071).
- Nectriopsis violacea* (Schmidt) Maire – elev. 800 m, old sporocarp of *Fuligo septica* on *Picea* stump, 9. 11. 2021 leg. J. Holec and P. Zehnálek, det. P. Zehnálek.
- Nematogonum ferrugineum* (Pers.) S. Hughes – elev. 790 m, *Fagus*: fallen trunk (DF21), decay stage 1, DBH 95 cm, 22. 11. 2022 leg. B. Kučerová, P. Zehnálek, det. B. Kučerová (PRM 958602).
- Neoboletus luridiformis* (Rostk.) Gelardi, Simonini & Vizzini – elev. 800 m, under *Fagus*, *Picea*, 6. 9. 2021 not. J. Holec. – elev. 800 m, under *Fagus*, *Abies*, *Picea*, 14. 9. 2022 not. J. Holec. – elev. 810 m, under *Picea*, *Fagus*, on bare soil with mosses at brook shore, 15. 8. 2023 not. J. Holec.
- Neobulgaria pura* (Fr.) Petrak – elev. 800 m, *Fagus*: fallen branch without bark, 9. 11. 2021 not. J. Holec. – elev. 790 m, *Fagus*, thin trunk, decay 2, 11. 10. 2022 leg. B. Kučerová, P. Zehnálek, det. B. Kučerová (PRM 958571).
- Neobulgaria pura* var. *foliacea* (Bres.) Dennis & Gamundí – elev. 815 m, *Fagus*: fallen branch covered with bark, 19. 10. 2021 leg. et det. J. Holec, JH 382/2021 (PRM 957151), photographed.
- Neodasyscypha cerina* (Pers.) Spooner – elev. 800 m, *Fagus*: fallen trunk (DF24), decay stage 2, DBH 75 cm, 22. 11. 2022 leg. B. Kučerová, P. Zehnálek, det. B. Kučerová (PRM 958589).
- Neolentinus adhaerens* (Alb. & Schwein.) Redhead & Ginns – elev. 800 m, *Abies*: fallen decaying trunk, 6. 9. 2021 not. J. Holec. – elev. 800 m, *Picea*: fallen decaying trunk covered with mosses, 19. 10. 2021 not. J. Holec. – elev. 800 m, decaying conifer stump covered with mosses, 9. 11. 2021 not. J. Holec and P. Zehnálek.
- Neonectria coccinea* (Pers.) Rossman & Samuels – elev. 790 m, *Fagus*: fallen trunk (DF21), decay stage 1, DBH 95 cm, 31. 8. 2022 leg. B. Kučerová, J. Holec, P. Zehnálek, det. P. Mlčoch, B. Kučerová (PRM 958558). – elev. 790 m, *Fagus*: fallen trunk (DF21), decay stage 1, DBH 95 cm, on branch, 17. 6. 2022 leg. et det. J. Holec, JH 22/2022 (PRM 959058).
- Neonectria* cf. *ditissima* (Tul. & C. Tul.) Samuels & Rossman – elev. 790 m, *Fagus*: fallen trunk (DF21), decay stage 1, DBH 95 cm, 22. 11. 2022 leg. B. Kučerová, P. Zehnálek, det. B. Kučerová (PRM 958606).
- Oligoporus alni* (Niemelä & Vampola) Piatek – elev. 810 m, *Fagus*: fallen branch without bark, 6. 9. 2021 leg. J. Holec, det. P. Vampola. – elev. 800 m, *Fagus*: fallen branch without bark, 6. 9. 2021 leg. J. Holec, det. P. Vampola. – elev. 800 m, *Fagus*: fallen trunk without bark, 9. 11. 2021 not. J. Holec and P. Zehnálek. – elev. 800 m, *Fagus*: fallen trunk (DF20), decay stage 3, DBH 85 cm, 30. 11. 2022 leg. J. Holec, det. P. Vampola, JH 416/2022 (PRM 959093).
- Oligoporus caesius* (Schrad.) Gilb. & Ryvarden – elev. 800 m, *Picea*: fallen trunk without bark, 6. 9. 2021 not. J. Holec. – elev. 800 m, *Picea*: freshly fallen trunk, 19. 10. 2021 not. J. Holec. – elev. 800 m, *Picea*: fallen trunk without bark, 9. 11. 2021 not. J. Holec and P. Zehnálek.
- Oligoporus fragilis* (Fr.) Gilb. & Ryvarden – elev. 800 m, *Picea*: fallen trunk without bark, 14. 9. 2022 not. J. Holec.
- Oligoporus guttulatus* (Peck in Sacc.) Gilb. & Ryvarden – elev. 800 m, *Picea*: fallen trunk without bark, 6. 9. 2021 not. J. Holec. – elev. 800 m, *Picea*: fallen decaying trunk covered with mosses, 19. 10. 2021 not. J. Holec. – elev. 800 m, *Picea*: fallen decaying trunk, 13. 7. 2022 not. J. Holec.
- Oligoporus ptychogaster* (F. Ludwig) R. & O. Falck – elev. 800 m, detritus: on conifer twigs in a brook, 7. 9. 2021 not. J. Holec.
- Oligoporus romellii* (M. Pieri & B. Rivoire) Niemelä – elev. 810 m, *Picea*: fallen trunk (DP08), decay stage 2, DBH 95 cm, 15. 11. 2021 leg. J. Holec, det. P. Vampola, JH 479/2021 (PRM 957282).
- Oligoporus stipticus* (Pers.) Gilb. & Ryvarden – elev. 800 m, *Picea*: freshly fallen trunk, 6. 9. 2021 not. J. Holec.
- Oligoporus undosus* (Peck) Gilb. & Ryvarden – elev. 810 m, *Picea*: fallen trunk (DP12), decay stage 4/5 (trunk strongly decayed, loosing its original shape), DBH 100 cm, 30. 9. 2022 leg. J. Holec, det. P. Vampola, JH 221/2022 (PRM 959027). – elev. 815 m, *Picea*: fallen trunk (DP10), decay stage 3, DBH 95 cm, 15. 11. 2021 leg. J. Holec, det. P. Vampola, JH 505/2021 (PRM 957207, as *Postia undosa*).

- Orbilbia xanthostigma* (Fr.) Fr. – elev. 800 m, *Fagus*: fallen trunk (DF20), decay stage 3, DBH 85 cm, 31. 8. 2022 leg. B. Kučerová, J. Holec, P. Zehnálek, det. M. Šandová, B. Kučerová (PRM 958540). – elev. 800 m, *Abies*: fallen decaying trunk, 11. 10. 2022 leg. B. Kučerová, P. Zehnálek, rev. M. Šandová (PRM 958575, originally identified as *O. cf. alnea*).
- Otidea alutacea* (Pers.) Masee – elev. 815 m, under *Acer*, *Fagus*, *Picea*, *Fraxinus*, *Tilia cordata*, 6. 9. 2021 leg. et det. J. Holec, JH 350/2021 (PRM 957128), photographed.
- Otidea onotica* (Pers.) Fuckel – elev. 815 m, under *Acer*, *Fagus*, *Picea*, *Fraxinus*, *Tilia cordata*, 6. 9. 2021 leg. et det. J. Holec, JH 351/2021 (PRM 957129), photographed.
- Oxyporus corticola* (Fr.) Ryvarden – elev. 810 m, *Fagus*: injury of a living tree, 9. 11. 2021 leg. J. Holec, det. P. Vampola, JH 398/2021 (PRM 957158). – elev. 800 m, *Fagus*: fallen trunk (DF24), decay stage 2, DBH 75 cm, on branch, 11. 8. 2022 leg. J. Holec, det. P. Vampola, JH 84/2022 (PRM 959069).
- Oxyporus populinus* (Schum.) Donk – elev. 790 m, *Fagus*: fallen trunk (DF21), decay stage 1, DBH 95 cm, 11. 8. 2022 leg. et det. J. Holec, JH 80/2022 (PRM 959066).
- Oxyporus ravidus* (Fr.) Bondartsev & Singer – elev. 820 m, *Fagus*: fallen branch without bark, 4. 8. 2022 leg. J. Holec, det. P. Vampola, JH 69/2022 (PRM 959042). – elev. 820 m, *Sorbus aucuparia*: fallen branch without bark, 26. 10. 2022 leg. J. Holec, det. P. Vampola, JH 402/2022 (PRM 959049).
- Panellus mitis* (Pers.) Singer – elev. 800 m, *Abies*: fallen twig without bark, 9. 11. 2021 not. J. Holec and P. Zehnálek.
- Panellus stipticus* (Bull.) P. Karst. – elev. 800 m, *Fagus*: fallen trunk (DF24), decay stage 2, DBH 75 cm, 1. 10. 2022 not. J. Holec.
- Panellus violaceofulvus* (Batsch) Singer – elev. 815 m, *Abies*: branch of freshly fallen trunk sticking out into the air, 27. 5. 2021 leg. et det. J. Holec, JH 10/2021 (PRM 957118). – elev. 810 m, *Abies*: fallen trunk (DA11), decay stage 1, DBH 105 cm, 16. 11. 2021 leg. et det. J. Holec, JH 513/2021 (PRM 957212). – elev. 800 m, *Abies*: freshly fallen trunk, on branch sticking out into the air, 9. 11. 2021 not. J. Holec and P. Zehnálek. – elev. 800 m, *Abies*: freshly fallen trunk, on branch sticking out into the air, 17. 4. 2023 not. J. Holec.
- Paxillus involutus* (Batsch) Fr. s.l. – elev. 800 m, under *Picea*, in needles, 6. 9. 2021 not. J. Holec. – elev. 800 m, under *Fagus*, *Abies*, *Picea*, 14. 9. 2022 not. J. Holec.
- Peniophora pithya* (Pers.) J. Erikss. – elev. 820 m, *Picea*: fallen trunk (DP06), decay stage 1, DBH 110 cm, 15. 6. 2021 leg. et det. J. Holec, JH 69/2021 (PRM 957269).
- Peniophorella guttulifera* (P. Karst.) K.H. Larss. – elev. 800 m, *Fagus*: fallen trunk (DF20), decay stage 3, DBH 85 cm, 17. 6. 2022 leg. et det. J. Holec, JH 11/2022 (PRM 959052).
- Peniophorella pallida* (Bres.) K.H. Larss. – elev. 805 m, *Picea*: fallen trunk (DP13), decay stage 4, DBH 90 cm, 16. 6. 2021 leg. et det. J. Holec, JH 102/2021 (PRM 957277).
- Peniophorella praetermissa* (P. Karst.) K.H. Larss. – elev. 810 m, *Abies*: fallen trunk (DA16), decay stage 3, DBH 95 cm, 10. 8. 2021 leg. et det. J. Holec, JH 309/2021 (PRM 957263). – elev. 815 m, *Abies*: fallen trunk (DA07), decay stage 4/5 (trunk strongly decayed, loosing its original shape), DBH 90 cm, 15. 6. 2021 leg. et det. J. Holec, JH 76/2021 (PRM 957272).
- Peniophorella pubera* (Fr.) P. Karst. – elev. 815 m, *Abies*: fallen trunk (DA07), decay stage 4/5 (trunk strongly decayed, loosing its original shape), DBH 90 cm, 9. 8. 2021 leg. et det. J. Holec, JH 242/2021 (PRM 957249).
- Phaeoblastophora resiniae* (Fr.) Partr. & Morgan-Jones – elev. 800 m, *Fagus*: fallen trunk (DF20), decay stage 3, DBH 85 cm, on branch, 31. 8. 2022 leg. B. Kučerová, J. Holec, P. Zehnálek, det. M. Šandová (PRM 959366).
- Phaeolus schweinitzii* (Fr.) Pat. – elev. 800 m, close to decaying *Picea* stump, 6. 9. 2021 not. J. Holec.
- Phallus impudicus* L. – elev. 800 m, in detritus, 4. 8. 2022 not. J. Holec.
- Phanerochaete sordida* (P. Karst.) J. Erikss. & Ryvarden – elev. 810 m, *Picea*: fallen trunk (DP08), decay stage 2, DBH 95 cm, 15. 6. 2021 leg. et det. J. Holec, JH 77/2021 (PRM 957273). – elev. 785 m, *Fagus*: fallen decaying trunk, 13. 7. 2022 leg. et det. J. Holec, JH 50/2022 (PRM 959010). – elev. 800 m, *Fagus*: fallen trunk (DF20), decay stage 3, DBH 85 cm, on branch, 17. 6. 2022 leg. et det. J. Holec, JH 19/2022 (PRM 959057).
- Phanerochaete velutina* (DC.) P. Karst. – elev. 790 m, *Fagus*: fallen trunk (DF21), decay stage 1, DBH 95 cm, 17. 6. 2022 not. J. Holec. – elev. 790 m, *Fagus*: fallen trunk (DF21), decay stage 1, DBH 95 cm, on branch, 30. 9. 2022 leg. et det. J. Holec, JH 296/2022 (PRM 959081).

- Phellinus hartigii* (Allesch. & Schnabl) Pat. – elev. 800 m, *Abies*: freshly fallen trunk, 7. 9. 2021 not. J. Holec.
- Phellinus chrysoloma* (Fr.) Donk – elev. 800 m, *Picea*: branch of a fallen trunk, 9. 11. 2021 not. J. Holec and P. Zehnálek.
- Phellinus nigrolimitatus* (Romell) Bourdot & Galzin – elev. 815 m, *Picea*: fallen trunk (DP04), decay stage 3, DBH 115 cm, 15. 6. 2021 leg. et det. J. Holec, JH 61/2021 (PRM 957267).
- Phellinus viticola* (Schwein.) Donk – elev. 800 m, *Picea*: fallen decaying trunk above soil, 6. 9. 2021 not. J. Holec. – elev. 810 m, *Picea*: fallen trunk without bark, 17. 4. 2023 leg. et det. J. Holec, JH 10/2023 (PRM 959514), photographed.
- Phellodon melaleucus* (Schwarz) P. Karst. – elev. 800 m, under *Fagus*, *Picea*, *Abies*, on naked soil close to a brook, 7. 9. 2021 not. J. Holec.
- Phlebia centrifuga* P. Karst. – elev. 815 m, *Picea*: fallen trunk (DP04), decay stage 3, DBH 115 cm, 15. 6. 2021 leg. et det. J. Holec, JH 62/2021 (PRM 957268).
- Phlebia radiata* Fr. – elev. 800 m, *Fagus*: fallen trunk without bark, 9. 11. 2021 not. J. Holec and P. Zehnálek. – elev. 790 m, *Fagus*: fallen trunk (DF21), decay stage 1, DBH 95 cm, 30. 9. 2022 not. J. Holec.
- Phlebia rufa* (Fr.) Christ. – elev. 790 m, *Fagus*: fallen trunk (DF21), decay stage 1, DBH 95 cm, on branch, 30. 9. 2022 leg. et det. J. Holec, JH 295/2022 (PRM 959080).
- Phlebia tuberculata* (Berk. & M.A. Curtis) Ľura, Zmitr., Wasser & Spirin – elev. 800 m, *Fagus*: fallen trunk (DF20), decay stage 3, DBH 85 cm, on branch, 17. 6. 2022 leg. et det. J. Holec, JH 15/2022 (PRM 959054).
- Phlebiella vaga* (Fr.) P. Karst. – elev. 815 m, *Picea*: fallen trunk (DP10), decay stage 3, DBH 95 cm 9. 8. 2021 leg. et det. J. Holec, JH 275/2021.
- Phleogena faginea* (Fr.) Link – elev. 800 m, *Fagus*: stump of fallen trunk (DF24), decay stage 2, DBH 75 cm, 30. 11. 2022 not. P. Zehnálek.
- Phliota adiposa* (Fr.) P. Kumm. – elev. 800 m, *Fagus*: fallen trunk without bark, 29. 9. 2022 not. J. Holec. – elev. 800 m, *Fagus*: fallen trunk (DF24), decay stage 2, DBH 75 cm, 1. 10. 2022 not. J. Holec.
- Phliota flammans* (Batsch) P. Kumm. – elev. 800 m, *Picea*: fallen decaying trunk, 6. 9. 2021 not. J. Holec. – elev. 800 m, *Picea*: fallen decaying trunk, 19. 10. 2021 not. J. Holec. – elev. 810 m, *Picea*: fallen decaying trunk, 15. 8. 2023 not. J. Holec.
- Phliota lenta* (Pers.) Singer – elev. 800 m, in detritus, 19. 10. 2021 not. J. Holec. – elev. 800 m, in detritu close to conifer stump, 9. 11. 2021 not. J. Holec and P. Zehnálek. – elev. 800 m, in detritus, 26. 10. 2022 not. J. Holec.
- Phliota scamba* (Fr.) M.M. Moser – elev. 800 m, *Picea*: fallen decaying trunk covered with mosses, 6. 9. 2021 not. J. Holec. – elev. 800 m, *Picea*: at base of fallen decaying trunk, 29. 9. 2022 not. J. Holec.
- Phliota spumosa* (Fr.) Singer – elev. 800 m, *Picea*: on wood in detritus, 29. 9. 2022 not. J. Holec.
- Phliota squarrosa* (Weigel) P. Kumm. – elev. 800 m, *Picea*: at base of living tree, 19. 10. 2021 not. J. Holec. – elev. 800 m, *Picea*: at base of living tree, 9. 11. 2021 not. J. Holec and P. Zehnálek.
- Phliota squarrosoides* Peck – elev. 800 m, *Fagus*: fallen decaying trunk, 19. 10. 2021 leg. et det. J. Holec, JH 391/2021 (PRM 957156). – elev. 800 m, *Fagus*: fallen trunk (DF20), decay stage 3, DBH 85 cm, 30. 9. 2022 not. J. Holec.
- Phliota subochracea* (A.H. Smith) A.H. Smith & Hesler – elev. 795 m, *Picea*: decaying stump grown by mosses, 6. 9. 2021 leg. et det. J. Holec, JH 357/2021 (PRM 957132).
- Phliota tuberculosa* (Schaeff.) P. Kumm. – elev. 780 m, *Sorbus aucuparia*: fallen decaying trunk covered with mosses, 15. 8. 2023 leg. et det. J. Holec, JH 136/2023 (herb. Holec).
- Phliotina vexans* (P.D. Orton) Bon – elev. 815 m, in fallen leaves under *Fagus*, *Acer*, *Fraxinus*, 19. 10. 2021 leg. et det. J. Holec, JH 381/2021 (PRM 957149), photographed. – elev. 795 m, in the litter under *Fagus*, *Abies* and *Picea*, 10. 5. 2022 leg. et det. P. Zehnálek, PZDBR19 (PRM 959337), photographed.
- Phyllotopsis nidulans* (Pers.) Singer – elev. 800 m, *Fagus*: fallen trunk (DF24), decay stage 2, DBH 75 cm, 30. 11. 2022 not. J. Holec. – elev. 800 m, *Picea*: freshly fallen trunk with bark, 17. 4. 2023 not. J. Holec.
- Physisporinus expallesces* (P. Karst.) Pilát – elev. 810 m, *Abies*: freshly fallen trunk (DA11), on branch sticking out into the air, 30. 9. 2022 leg. J. Holec, det. P. Vampola, JH 213/2022 (PRM 959025).
- Physisporinus sanguinolentus* (Alb. & Schwein.) Pilát – elev. 805 m, *Abies*: fallen trunk (DA15), decay stage 4, DBH 115 cm, 30. 9. 2022 leg. J. Holec, det. P. Vampola, JH 237/2022 (PRM 959031).
- Pleurotus ostreatus* (Jacq.) P. Kumm. – elev. 790 m, *Fagus*: fallen trunk (DF21), decay stage 1, DBH 95 cm, 30. 11. 2022 not. J. Holec. – elev. 800 m, *Fagus*: freshly fallen trunk, 17. 4. 2023 not. J. Holec.

- Pleurotus pulmonarius* (Fr.) Quél. – elev. 820 m, *Picea*: fallen trunk (DP06), decay stage 1, DBH 110 cm, 9. 8. 2021 not. J. Holec. – elev. 800 m, *Fagus*: fallen trunk (DF24), decay stage 2, DBH 75 cm, 17. 6. 2022 not. J. Holec.
- Plicaturopsis crispa* (Pers.) D.A. Reid – elev. 800 m, *Fagus*: fallen branch with bark, 7. 9. 2021 not. J. Holec. – elev. 800 m, *Fagus*: fallen branch without bark, 9. 11. 2021 not. J. Holec. – elev. 790 m, *Fagus*: fallen trunk (DF21), decay stage 1, DBH 95 cm, on branch, 30. 11. 2022 not. J. Holec.
- Pluteus atromarginatus* (Singer) Kühner – elev. 800 m, *Abies*: fallen decaying trunk covered with mosses, 19. 10. 2021 not. J. Holec.
- Pluteus cervinus* (Schaeff.) P. Kumm. – elev. 800 m, *Fagus*: fallen decaying trunk, 7. 9. 2021 not. J. Holec. – elev. 800 m, *Fagus*: fallen decaying trunk, 9. 11. 2021 not. J. Holec and P. Zehnálek. – elev. 800 m, *Fagus*: fallen decaying trunk, 10. 5. 2022 not. J. Holec and P. Zehnálek. – elev. 800 m, *Fagus*: fallen trunk (DF20), decay stage 3, DBH 85 cm, on branch, 30. 9. 2022 not. J. Holec.
- Pluteus phlebophorus* (Ditm.) P. Kumm. s.l. – elev. 800 m, *Fagus*: fallen decaying trunk covered with mosses, 7. 9. 2021 not. J. Holec. – elev. 785 m, *Fagus*: fallen trunk (DF22), decay stage 4, DBH 100 cm, 17. 6. 2022 leg. et det. J. Holec, JH 31/2022 (PRM 959061), photographed.
- Pluteus plautus* (Weinm.) Gillet s.l. – elev. 815 m, *Picea*: fallen trunk (DP09), decay stage 3, DBH 130 cm, 10. 8. 2021 leg. et det. J. Holec, JH 279/2021 (PRM 957254), photographed. – elev. 800 m, *Fagus*: fallen decaying trunk covered with mosses, 4. 8. 2022 leg. et det. J. Holec, JH 66/2022 (PRM 959039), photographed.
- Pluteus pouzarianus* Singer – elev. 805 m, *Picea*: fallen trunk (DP13), decay stage 4, DBH 90 cm, 30. 9. 2022 leg. et det. J. Holec, JH 228/2022 (PRM 959030).
- Pluteus primus* Bonnard – elev. 815 m, *Abies*: fallen trunk (DA19), decay stage 3, DBH 85 cm, 15. 11. 2021 leg. et det. J. Holec, JH 417/2021 (PRM 957177).
- Polycephalomyces* cf. *tomentosus* (Schrad.) Seifert – elev. 800 m, *Fagus*: fallen trunk (DF24), decay stage 2, DBH 75 cm, 22. 11. 2022 leg. B. Kučerová, P. Zehnálek, det. P. Zehnálek (PRM 958593). – elev. 816 m, on sporocarp of *Hemitrichia serpula* on fallen trunk of *Picea*, 9. 11. 2021 leg. et det. P. Zehnálek (PRM 959219).
- Polydesmia pruinosa* (Berk. & Broome) Boud. – elev. 800 m, *Fagus*: fallen trunk (DF24), decay stage 2, DBH 75 cm, 31. 8. 2022 leg. B. Kučerová, J. Holec, P. Zehnálek, det. M. Šandová, B. Kučerová (PRM 958562).
- Polyporus badius* (Pers.: Gray) Schwein. – elev. 810 m, *Fagus*: fallen decaying trunk covered with mosses, 15. 8. 2023 not. J. Holec.
- Polyporus brumalis* (Pers.) Fr. – elev. 800 m, *Fagus*: fallen twig with bark, 26. 10. 2022 not. J. Holec. – elev. 800 m, *Fagus*: fallen branch without bark, 17. 4. 2023 not. J. Holec.
- Polyporus varius* (Pers.) Fr. – elev. 800 m, *Fagus*: fallen decaying branch, 6. 9. 2021 not. J. Holec. – elev. 800 m, *Fagus*: fallen twig without bark, 16. 6. 2022 not. J. Holec. – elev. 800 m, *Fagus*: fallen trunk (DF24), decay stage 2, DBH 75 cm, on branch, 11. 8. 2022 not. J. Holec.
- Porphyrellus porphyrosporus* (Fr. & Hök) Gilb. – elev. 800 m, under *Fagus*, *Picea*, 6. 9. 2021 not. J. Holec.
- Postia cyanescens* Mietinen – elev. 810 m, *Picea*: fallen trunk (DP08), decay stage 2, DBH 95 cm, 15. 11. 2021 leg. J. Holec, det. P. Vampola, JH 472/2021 (PRM 957281).
- Protoacia delicata* Spirin & Malysheva – elev. 815 m, *Picea*: fallen trunk (DP03), decay stage 3, DBH 110 cm, 29. 9. 2022 leg. et det. J. Holec, JH 150/2022 (PRM 959015).
- Psathyrella fibrillosa* (Pers.) Maire – elev. 800 m, in fallen decaying leaves, 6. 9. 2021 not. M. Kříž and J. Holec. – elev. 815 m, in detritus, on decaying bark of *Abies* close to a fallen trunk, 13. 7. 2022 leg. et det. J. Holec, JH 47/2022 (PRM 959007), photographed.
- Psathyrella friesii* Kits van Wav. – elev. 800 m, in detritus, 6. 9. 2021 leg. et det. M. Beran (herb. Beran).
- Psathyrella obtusata* (Pers.) A.H. Sm. – elev. 803 m, in litter under *Fagus*, 11. 10. 2022 leg. et det. P. Zehnálek (PRM 959224).
- Psathyrella papyracea* (Pers.) Vašutová – elev. 800 m, *Fagus*: injury of a living tree, 19. 10. 2021 not. J. Holec.
- Psathyrella piluliformis* (Bull.) P.D. Orton – elev. 800 m, on decayed wood, 7. 9. 2021 not. J. Holec. – elev. 800 m, *Fagus*: fallen trunk (DF20), decay stage 3, DBH 85 cm, 30. 9. 2022 not. J. Holec, photographed. – elev. 784 m, on fallen trunk of *Fagus*, 11. 10. 2022 leg. et det. P. Zehnálek, PZDBR16 (PRM 959228).

- Psathyrella rostellata* Örstadius – elev. 800 m, *Fagus*: fallen trunk (DF20), decay stage 3, DBH 85 cm, 30. 9. 2022 leg. et det. J. Holec, JH 285/2022 (PRM 959074), photographed.
- Psathyrella spadicea* (Schaeff.: P. Kumm.) Singer – elev. 800 m, in detritus close to base of a living *Abies*, 4. 8. 2022 leg. et det. J. Holec, JH 68/2022 (PRM 959041), photographed.
- Pseudocraterellus sinuosus* (Fr.) Corner – elev. 800 m, on soil close to a brook, under *Fagus*, *Abies*, *Picea*, 6. 9. 2021 not. J. Holec.
- Pseudohydnum gelatinosum* (Scop.) P. Karst. – elev. 800 m, *Abies*: decaying stump, 6. 9. 2021 not. J. Holec.
- Pseudospiropes nodosus* (Wallr.) M.B. Ellis – elev. 800 m, *Fagus*: fallen trunk (DF20), decay stage 3, DBH 85 cm, 31. 8. 2022 leg. B. Kučerová, J. Holec, P. Zehnálek, det. M. Šandová (PRM 959365). – elev. 790 m, *Fagus*: fallen trunk (DF21), decay stage 1, DBH 95 cm, 31. 8. 2022 leg. B. Kučerová, J. Holec, P. Zehnálek, det. M. Šandová (PRM 959367).
- Pycnoporellus fulgens* (Fr.) Donk – elev. 800 m, *Picea*: fallen decaying trunk, 6. 9. 2021 not. J. Holec. – elev. 800 m, fallen decaying trunk of a conifer, 19. 10. 2021 not. J. Holec.
- Resinicium bicolor* (Alb. & Schwein.) Parmasto – elev. 815 m, *Picea*: fallen trunk (DP03), decay stage 3, DBH 110 cm, 15. 11. 2021 leg. et det. J. Holec, JH 428/2021 (PRM 957181).
- Resinicium furfuraceum* (Bres.) Parmasto – elev. 810 m, *Picea*: fallen trunk (DP12), decay stage 4/5 (trunk strongly decayed, loosing its original shape), DBH 100 cm, 16. 11. 2021 leg. et det. J. Holec, JH 522/2021 (PRM 957217).
- Rhodocollybia butyracea* f. *asema* (Fr.) Antonín, Halling & Noordel. – elev. 800 m, in detritus, 6. 9. 2021 not. J. Holec. – elev. 800 m, in fallen decaying leaves, 19. 10. 2021 not. J. Holec. – elev. 800 m, in detritus, 26. 10. 2022 not. J. Holec. – elev. 800 m, *Fagus*: fallen trunk (DF24), decay stage 2, DBH 75 cm, 1. 10. 2022 not. J. Holec.
- Rhodocollybia distorta* (Fr.) Singer – elev. 800 m, under *Fagus*, *Abies*, *Picea*, 6. 9. 2021 not. J. Holec and M. Beran. – elev. 800 m, under *Fagus*, *Abies*, *Picea*, in leaves close to a brook, 19. 10. 2021 not. J. Holec. – elev. 790 m, in detritus, 26. 10. 2022 not. J. Holec.
- Rhodocollybia maculata* (Alb. & Schwein.) Singer – elev. 810 m, under *Picea*, *Fagus*, 11. 10. 2022 not. P. Zehnálek.
- Rigidoporus crocatus* (Pat.) Ryvarden – elev. 815 m, *Picea*: fallen trunk (DP09), decay stage 3, DBH 130 cm, 15. 6. 2021 not. J. Holec.
- Russula acrifolia* Romagn. – elev. 805 m, under *Fagus*, *Abies*, *Picea*, 13. 7. 2022 leg. et det. J. Holec, JH 48/2022 (PRM 959008), photographed.
- Russula albonigra* (Krombh.) Fr. – elev. 820 m, under *Fagus*, *Abies*, 14. 9. 2022 leg. et det. J. Holec, JH 99/2022 (PRM 959046).
- Russula amethystina* Qué. – elev. 808 m, under *Fagus*, *Abies*, *Picea*, 11. 10. 2022 leg. et det. P. Zehnálek (PRM 959229), photographed.
- Russula aurora* Krombh. – elev. 800 m, under *Fagus*, 4. 8. 2022 leg. et det. J. Holec, JH 67/2022 (PRM 959040), photographed. – elev. 800 m, under *Fagus*, *Abies*, *Picea*, 14. 9. 2022 not. J. Holec.
- Russula badia* Qué. – elev. 800 m, under *Fagus*, *Abies*, *Picea*, 19. 10. 2021 not. J. Holec.
- Russula curtipes* F. H. Möller & Jul. Schäff. – elev. 800 m, under *Fagus*, *Picea*, 7. 9. 2021 leg. M. Beran and J. Holec, det. M. Beran.
- Russula cyanoxantha* (Schaeff.) Fr. – elev. 800 m, under *Fagus*, *Abies*, *Picea*, 6. 9. 2021 not. J. Holec. – elev. 800 m, under *Fagus*, *Abies*, *Picea*, 14. 9. 2022 not. J. Holec.
- Russula densifolia* Gillet – elev. 800 m, under *Fagus*, *Picea*, 6. 9. 2021 not. J. Holec. – elev. 800 m, under *Fagus*, *Abies*, *Picea*, 14. 9. 2022 not. J. Holec. – elev. 800 m, under *Fagus*, *Abies*, *Picea*, 15. 8. 2023 leg. et det. J. Holec, JH 135/2023 (herb. Holec).
- Russula emetica* (Schaeff.) Pers. – elev. 800 m, under *Fagus*, *Abies*, *Picea*, 6. 9. 2021 not. J. Holec.
- Russula fellea* (Fr.) Fr. – elev. 800 m, under *Fagus*, *Picea*, 6. 9. 2021 not. J. Holec. – elev. 800 m, under *Fagus*, 14. 9. 2022 not. J. Holec. – elev. 790 m, under *Fagus*, 26. 10. 2022 not. J. Holec.
- Russula fragilis* (Pers.) Fr. – elev. 810 m, under *Picea*, *Fagus*, at brook shore, 15. 8. 2023 not. J. Holec.
- Russula laurocerasi* Melzer – elev. 800 m, in litter, 6. 9. 2021 leg. et det. M. Beran (herb. Beran).
- Russula nigricans* (Bull.) Fr. – elev. 800 m, under *Fagus*, *Abies*, *Picea*, 6. 9. 2021 not. J. Holec.
- Russula nobilis* Velen. – elev. 800 m, under *Fagus*, *Picea*, 6. 9. 2021 not. J. Holec. – elev. 800 m, under *Fagus*, 14. 9. 2022 not. J. Holec. – elev. 810 m, under *Fagus*, *Abies*, *Picea*, 15. 8. 2023 not. J. Holec.

- Russula ochroleuca* Pers. – elev. 800 m, under *Fagus*, *Picea*, 6. 9. 2021 not. J. Holec. – elev. 800 m, under *Picea*, *Fagus*, damp place, 19. 10. 2021 not. J. Holec.
- Russula puellula* Ebb. – elev. 800 m, in litter among mosses, 6. 9. 2021 leg. et det. M. Beran (herb. Beran).
- Russula turci* Bres. – elev. 800 m, under *Picea*, *Abies*, 6. 9. 2021 not. J. Holec. – elev. 800 m, under *Fagus*, *Abies*, *Picea*, 26. 10. 2022 not. J. Holec.
- Russula vesca* Fr. – elev. 800 m, under *Fagus*, 6. 9. 2021 not. J. Holec. – elev. 810 m, under *Fagus*, *Abies*, *Picea*, 15. 8. 2023 not. J. Holec.
- Rutstroemia elatina* (Alb. & Schwein.) Rehm – elev. 809 m, on decaying *Abies* twig with needles, 11. 5. 2022 leg. et det. P. Zehnálek, PZDBR17 (PRM 959334).
- Sarcomyxa serotina* (Pers.) P. Karst. – elev. 800 m, *Fagus*: fallen trunk without bark, 9. 11. 2021 not. J. Holec and P. Zehnálek. – elev. 815 m, *Fagus*: fallen branch with bark, 26. 10. 2022 not. J. Holec. – elev. 790 m, *Fagus*: fallen trunk (DF21), decay stage 1, DBH 95 cm, on branch, 30. 9. 2022 not. J. Holec.
- Scleroderma citrinum* Pers. – elev. 800 m, on a pile of soil close to uprooted trunk, 6. 9. 2021 not. J. Holec. – elev. 800 m, decaying conifer stump, 19. 10. 2021 not. J. Holec.
- Scutellinia scutellata* (L.) Lambotte – elev. 800 m, *Fagus*: fallen trunk (DF20), decay stage 3, DBH 85 cm, 31. 8. 2022 leg. B. Kučerová, J. Holec, P. Zehnálek, det. M. Šandová, B. Kučerová (PRM 958542). – elev. 800 m, *Fagus*: fallen trunk (DF20), decay stage 3, DBH 85 cm, 17. 6. 2022 leg. et det. J. Holec, JH 10/2022 (PRM 959051).
- Serpula himantoides* (Fr.) P. Karst. – elev. 800 m, *Picea*: fallen decaying trunk, 9. 11. 2021 not. J. Holec and P. Zehnálek.
- Shizophyllum commune* Fr. – elev. 790 m, *Fagus*: fallen trunk (DF21), decay stage 1, DBH 95 cm, on branch, 30. 11. 2022 not. J. Holec.
- Schizopora radula* (Pers.) Hallenb. – elev. 815 m, *Picea*: fallen trunk (DP01), decay stage 1, DBH 120 cm, 29. 9. 2022 leg. J. Holec, det. P. Vampola, JH 127/2022 (PRM 959012). – elev. 800 m, *Fagus*: fallen trunk (DF24), decay stage 2, DBH 75 cm, on branch, 17. 6. 2022 leg. J. Holec, det. P. Vampola, JH 38/2022 (PRM 959062).
- Simocybe sumptuosa* P.D. Orton – elev. 780 m, *Sorbus aucuparia*: fallen decaying trunk covered with mosses, 15. 8. 2023 leg. et det. J. Holec, JH 137/2023 (herb. Holec).
- Sistotrema binucleosporum* Hallenb. – elev. 815 m, *Abies*: fallen trunk (DA07), decay stage 4/5 (trunk strongly decayed, loosing its original shape), DBH 90 cm, 15. 6. 2021 leg. et det. J. Holec, JH 71/2021 (PRM 957270).
- Sistotrema brinkmannii* (Bres.) J. Erikss. – elev. 810 m, *Abies*: fallen trunk (DA11), decay stage 1, DBH 105 cm, 16. 11. 2021 leg. et det. J. Holec, JH 509/2021 (PRM 957209). – elev. 810 m, *Picea*: fallen trunk (DP14), decay stage 2, DBH 100 cm, 16. 11. 2021 leg. et det. J. Holec, JH 542/2021 (PRM 957222). – elev. 800 m, *Fagus*: fallen trunk (DF24), decay stage 2, DBH 75 cm, 1. 10. 2022 leg. et det. J. Holec, JH 322/2022 (PRM 959091).
- Sistotrema coroniferum* (Höhn. & Litsch.) Donk – elev. 820 m, *Picea*: fallen trunk (DP06), decay stage 1, DBH 110 cm, 15. 11. 2021 leg. et det. J. Holec, JH 455/2021 (PRM 957190). – elev. 810 m, *Abies*: fallen trunk (DA11), decay stage 1, DBH 105 cm, 16. 11. 2021 leg. et det. J. Holec, JH 517/2021 (PRM 957216).
- Skeletocutis semipileata* (Peck) Miettinen & A. Korhonen – elev. 800 m, *Fagus*: fallen trunk (DF20), decay stage 3, DBH 85 cm, on branch, 11. 8. 2022 leg. J. Holec, det. P. Vampola, JH 76/2022 (PRM 959064).
- Skeletocutis stellae* (Pilát) Jean Keller – elev. 810 m, fallen decaying trunk of a conifer, 19. 10. 2021 leg. J. Holec, det. P. Vampola, JH 385/2021 (PRM 957152).
- Spadicoides grovei* M.B. Ellis – elev. 815 m, *Fagus*, fallen trunk, 11. 10. 2022 leg. B. Kučerová, P. Zehnálek, det. M. Šandová (PRM 959371), second species in collection labelled *Ascocoryne lilacina*.
- Sparassis brevipes* f. *nemečii* (Pilát & Veselý) R.H. Petersen – elev. 800 m, *Picea*: at base of living tree, 6. 9. 2021 not. J. Holec. – elev. 810 m, *Abies*: at base of living tree, 4. 8. 2022 leg. et det. J. Holec, JH 65/2022 (PRM 959038). – elev. 810 m, *Abies*: on roots of living tree, 4. 8. 2022 not. J. Holec. – elev. 800 m, *Abies*: on soil 2 m from living tree, 4. 8. 2022 not. J. Holec.
- Steccherinum gracile* (Pilát) Parmasto – elev. 800 m, *Abies*: fallen trunk (DA17), decay stage 3, DBH 95 cm, 16. 11. 2021 leg. J. Holec, det. P. Vampola, JH 584/2021 (PRM 957232). – elev. 800 m, *Abies*: fallen trunk (DA17), decay stage 3, DBH 95 cm, 30. 9. 2022 leg. J. Holec, det. P. Vampola, JH 268/2022 (PRM 959034).

- Steccherinum ochraceum* (Pers.) Gray – elev. 815 m, *Picea*: fallen trunk (DP03), decay stage 3, DBH 110 cm, 15. 11. 2021 leg. J. Holec, det. P. Vampola, JH 431/2021 (PRM 957183). – elev. 800 m, *Fagus*: fallen trunk (DF24), decay stage 2, DBH 75 cm, 30. 11. 2022 not. J. Holec.
- Stereum hirsutum* (Willd.) Gray – elev. 800 m, *Fagus*: fallen branch with bark, 6. 9. 2021 not. J. Holec. – elev. 800 m, *Fagus*: fallen trunk (DF20), decay stage 3, DBH 85 cm, on branch, 17. 6. 2022 not. J. Holec.
- Stereum rugosum* (Pers.) Fr. – elev. 800 m, *Fagus*: injury of a living tree, 6. 9. 2021 not. J. Holec. – elev. 800 m, *Fagus*: fallen trunk (DF20), decay stage 3, DBH 85 cm, on branch, 17. 6. 2022 not. J. Holec.
- Stereum sanguinolentum* (Alb. & Schwein.) Fr. – elev. 810 m, *Abies*: fallen trunk (DA11), decay stage 1, DBH 105 cm, 9. 8. 2021 leg. et det. J. Holec, JH 251/2021 (PRM 957250).
- Strobilomyces strobilaceus* (Scop.) Berk. – elev. 800 m, under *Fagus*, *Picea*, 6. 9. 2021 not. J. Holec.
- Strobilurus esculentus* (Wulfen) Singer – elev. 800 m, cone of *Picea* lying in soil, 17. 4. 2023 not. J. Holec.
- Tatraea dumbirensis* (Velen.) Svrček – elev. 785 m, *Fagus*: fallen trunk (DF22), decay stage 4, DBH 100 cm, 1. 10. 2022 leg. et det. J. Holec, JH 300/2022 (PRM 959082).
- Tectella patellaris* (Fr.) Murrill – elev. 815 m, *Fagus*: fallen branch without bark, diam. 3 cm, 9. 11. 2021 leg. J. Holec, det. P. Vampola, JH 400/2021 (PRM 957159). – elev. 815 m, *Fagus*: fallen branch with bark, 26. 10. 2022 leg. et det. J. Holec, JH 400/2022 (PRM 959047), photographed.
- Tomentella faginea* Jirsa nom. prov. – elev. 780 m, *Fagus*: fallen trunk (DF23), decay stage 5, DBH 90 cm, 22. 11. 2022 leg. B. Kučerová, P. Zehnálek, det. A. Jirsa (PRM 958600). – Notes: according to A. Jirsa, who studied the collection, this taxon will be included in his diploma thesis under that name. Microscopically, it is closest to *T. terrestris*, but differs clearly.
- Tomentella subulicina* ((Ellis & Holw.) Wakef. s.l. – elev. 800 m, *Abies*: fallen trunk (DA17), decay stage 3, DBH 95 cm, 16. 11. 2021 leg. J. Holec, det. A. Jirsa, JH 583/2021 (PRM 957231). – elev. 805 m, *Picea*: fallen trunk (DP13), decay stage 4, DBH 90 cm, 10. 8. 2021 leg. et det. J. Holec, JH 289/2021 (PRM 957257). – elev. 815 m, *Picea*: fallen trunk (DP01), decay stage 1, DBH 120 cm, 29. 9. 2022 leg. J. Holec, det. A. Jirsa, JH 131/2022 (PRM 959014).
- Trametes ochracea* (Pers.) Gilb. & Ryvarden – elev. 800 m, *Fagus*: fallen trunk (DF24), decay stage 2, DBH 75 cm, 1. 10. 2022 not. J. Holec.
- Trametes versicolor* (L.) Pilát – elev. 800 m, *Fagus*: fallen decaying trunk, 6. 9. 2021 not. J. Holec. – elev. 800 m, *Fagus*: fallen trunk without bark, 19. 10. 2021 not. J. Holec. – elev. 800 m, *Fagus*: fallen trunk (DF24), decay stage 2, DBH 75 cm, on branch, 17. 6. 2022 not. J. Holec.
- Trechispora microspora* (P. Karst.) Liberta – elev. 815 m, *Abies*: fallen trunk (DA19), decay stage 3, DBH 85 cm, 15. 11. 2021 leg. et det. J. Holec, JH 420/2021 (PRM 957178). – elev. 815 m, *Abies*: fallen trunk (DA19), decay stage 3, DBH 85 cm, 9. 8. 2021 leg. et det. J. Holec, JH 216/2021 (PRM 957240).
- Trechispora minima* K.H. Larss. – elev. 805 m, *Picea*: fallen trunk (DP13), decay stage 4, DBH 90 cm, 10. 8. 2021 leg. et det. J. Holec, JH 290/2021 (PRM 957258). – elev. 805 m, *Picea*: fallen trunk (DP13), decay stage 4, DBH 90 cm, 30. 9. 2022 leg. et det. J. Holec, JH 226/2022 (PRM 959029).
- Trechispora mollusca* (Pers.) Liberta – elev. 800 m, *Fagus*: fallen trunk (DF24), decay stage 2, DBH 75 cm, 30. 11. 2022 leg. J. Holec, det. P. Vampola, JH 447/2022 (PRM 959098).
- Tremella encephala* Pers. – elev. 810 m, *Abies*: fallen trunk (DA11), decay stage 1, DBH 105 cm, on *Stereum sanguinolentum*, 16. 11. 2021 not. J. Holec.
- Tremella globispora* D.A. Reid – elev. 809 m, decaying twigs of *Fagus* (most probably on hidden stromata of Diaporthales), 9. 11. 2021 leg. et det. P. Zehnálek (PRM 959220).
- Trichaptum abietinum* (Pers.) Ryvarden – elev. 815 m, *Picea*: fallen trunk (DP01), decay stage 1, DBH 120 cm, 15. 6. 2021 not. J. Holec.
- Tricholoma fulvum* (DC.) Sacc. – elev. 800 m, under *Fagus*, *Abies*, *Picea*, in leaves close to a brook, 19. 10. 2021 not. J. Holec.
- Tricholoma lascivum* (Fr.) Gillet – elev. 800 m, under *Fagus*, 7. 9. 2021 not. J. Holec.
- Tricholoma saponaceum* (Fr.) P. Kumm. – elev. 800 m, under *Fagus*, *Abies*, close to a brook, 6. 9. 2021 not. J. Holec. – elev. 800 m, under *Fagus*, *Abies*, *Picea*, 14. 9. 2022 not. J. Holec.
- Tricholoma ustale* (Fr.) P. Kumm. – elev. 800 m, under *Fagus*, *Picea*, 6. 9. 2021 not. J. Holec. – elev. 800 m, under *Fagus*, *Abies*, *Picea*, 14. 9. 2022 not. J. Holec.
- Tricholomopsis decora* (Fr.) Singer – elev. 800 m, *Picea*: fallen decaying trunk, 6. 9. 2021 not. J. Holec. – elev. 800 m, *Picea*: fallen decaying trunk, 19. 10. 2021 not. J. Holec.

- Tubulicrinis strangulatus* K.H. Larss. & Hjortstam – elev. 815 m, *Picea*: fallen trunk (DP10), decay stage 3, DBH 95 cm, 15. 6. 2021 leg. et det. J. Holec, JH 89/2021 (PRM 957275).
- Tulasnella albida* Bourdot & Galzin – elev. 800 m, *Abies*: fallen trunk (DA17), decay stage 3, DBH 95 cm, 16. 11. 2021 leg. et det. J. Holec, JH 585/2021 (PRM 957233).
- Tulasnella violae* (Quél.) Bourdot & Galzin – elev. 810 m, *Picea*: fallen trunk (DP08), decay stage 2, DBH 95 cm, 15. 11. 2021 leg. et det. J. Holec, JH 478/2021 (PRM 957199).
- Tylophilus felleus* (Bull.) P. Karst. – elev. 800 m, under *Fagus*, *Abies*, *Picea*, 7. 9. 2021 not. J. Holec.
- Tyromyces chioneus* (Fr.) P. Karst. – elev. 795 m, *Fagus*: fallen decaying branch, 7. 9. 2021 leg. J. Holec, det. P. Vampola, JH 359/2021 (PRM 957133). – elev. 790 m, *Fagus*: fallen branch without bark, 13. 7. 2022 leg. J. Holec, det. P. Vampola, JH 51/2022 (PRM 959011). – elev. 790 m, *Fagus*: on stump, diam. 7 cm, 26. 10. 2022 leg. J. Holec, det. P. Vampola, JH 401/2022 (PRM 959048).
- Ustulina deusta* (Hoffm.) Lind. – elev. 800 m, *Fagus*: injury of a living tree, 9. 11. 2021 not. J. Holec and P. Zehnálek. – elev. 800 m, *Fagus*: fallen trunk (DF20), decay stage 3, DBH 85 cm, at base, 17. 6. 2022 not. J. Holec.
- Vesiculomyces citrinus* (Pers.) Hagström – elev. 815 m, *Picea*: fallen trunk (DP10), decay stage 3, DBH 95 cm, 15. 11. 2021 leg. et det. J. Holec, JH 500/2021 (PRM 957204). – elev. 805 m, *Abies*: fallen trunk (DA15), decay stage 4, DBH 115 cm, 16. 11. 2021 leg. et det. J. Holec, JH 553/2021 (PRM 957226).
- Vibrissea truncorum* (Alb. & Schwein.) Fr. – elev. 800 m, on twigs in creek, 24. 5. 2023 leg. V. Souček, P. Zehnálek, det. V. Souček, PZDBR21 (PRM 959362), photographed.
- Xerocomellus chrysenferon* (Bull.) Šutara – elev. 800 m, under *Fagus*, *Abies*, *Picea*, 6. 9. 2021 not. J. Holec. – elev. 800 m, under *Fagus*, *Abies*, *Picea*, 13. 7. 2022 leg. et det. J. Holec, JH 49/2022 (PRM 959009), photographed. – elev. 810 m, under *Fagus*, *Abies*, *Picea*, 15. 8. 2023 not. J. Holec.
- Xerocomellus pruvinatus* (Fr. & Hök) Šutara – elev. 800 m, under *Fagus*, *Picea*, 6. 9. 2021 not. J. Holec. – elev. 800 m, decaying conifer stump, 19. 10. 2021 not. J. Holec. – elev. 800 m, under *Fagus*, *Abies*, *Picea*, 14. 9. 2022 not. J. Holec. – elev. 780 m, *Fagus*: fallen trunk (DF23), decay stage 5, DBH 90 cm, 1. 10. 2022 not. J. Holec.
- Xerocomus ferrugineus* (Schaeff.) Bon – elev. 800 m, under *Fagus*, *Abies*, *Picea*, 6. 9. 2021 not. J. Holec.
- Xeromphalina campanella* (Batsch) Maire – elev. 800 m, *Picea*: fallen decaying trunk, 6. 9. 2021 not. J. Holec. – elev. 800 m, *Picea*: fallen decaying trunk covered with mosses, 12. 4. 2022 not. J. Holec.
- Xylaria hypoxylon* (L.) Grev. – elev. 800 m, *Fagus*: fallen decaying trunk, 6. 9. 2021 not. J. Holec. – elev. 790 m, *Fagus*: fallen trunk (DF21), decay stage 1, DBH 95 cm, 30. 9. 2022 not. J. Holec.
- Xylaria longipes* Nitschke – elev. 800 m, on fallen branch (*Fagus?* *Acer pseudoplatanus?*), 6. 9. 2021 not. J. Holec.
- Xylodon asper* (Fr.) Hjortstam & Ryvarden – elev. 815 m, *Picea*: fallen trunk (DP03), decay stage 3, DBH 110 cm, 15. 11. 2021 leg. et det. J. Holec, JH 422/2021 (PRM 957180).
- Xylodon brevisetus* (P. Karst.) Hjortstam & Ryvarden – elev. 810 m, *Picea*: fallen trunk (DP14), decay stage 2, DBH 100 cm, 16. 11. 2021 leg. et det. J. Holec, JH 549/2021 (PRM 957225). – elev. 800 m, *Abies*: fallen trunk (DA17), decay stage 3, DBH 95 cm, 30. 9. 2022 leg. et det. J. Holec, JH 264/2022. – elev. 780 m, *Fagus*: fallen trunk (DF23), decay stage 5, DBH 90 cm, 1. 10. 2022 leg. et det. J. Holec, JH 309/2022 (PRM 959086).
- Xylodon crustosus* (Pers.) Chevall. – elev. 815 m, *Abies*: fallen trunk (DA07), decay stage 4/5 (trunk strongly decayed, loosing its original shape), DBH 90 cm, 15. 11. 2021 leg. et det. J. Holec, JH 459/2021 (PRM 957191).
- Xylodon nespori* (Bres.) Hjortstam & Ryvarden – elev. 810 m, *Picea*: fallen trunk (DP08), decay stage 2, DBH 95 cm, 15. 11. 2021 leg. et det. J. Holec, JH 471/2021 (PRM 957196). – elev. 815 m, *Abies*: fallen trunk (DA07), decay stage 4/5 (trunk strongly decayed, loosing its original shape), DBH 90 cm, 9. 8. 2021 leg. et det. J. Holec, JH 239/2021 (PRM 957247).
- Xylodon spathulatus* (Schrad.) Kuntze – elev. 820 m, *Picea*: fallen trunk (DP05), decay stage 2, DBH 120 cm, 9. 8. 2021 leg. et det. J. Holec, JH 225/2021 (PRM 957244). – elev. 815 m, decaying conifer stump covered with mosses, 13. 7. 2022 leg. et det. J. Holec, JH 46/2022, photographed. – elev. 800 m, *Fagus*: fallen trunk (DF20), decay stage 3, DBH 85 cm, on branch, 17. 6. 2022 leg. et det. J. Holec, JH 9/2022 (PRM 959050).