

# CATATHELASMA

a journal on biodiversity, taxonomy and conservation of fungi

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***Hygrocybe calyptriformis***, Slovakia, Javorníky Mts., Čadca, Vojty village, 21 August 2014, J. Zajacová, M. Zajac (BRA). Photo M. Zajac; see p. 5–23.



***Hygrocybe spadicea***, Slovakia, Turzovská vrchovina Mts., Čadca, Sihelník village, 26 October 2013, J. Zajacová, M. Zajac (BRA).  
Photo M. Zajac; see p. 5–23.



***Hygrocybe flavipes***, Slovakia, Turzovská vrchovina Mts., Čadca, Sihelník village, 21 September 2013, J. Zajacová, M. Zajac (BRA).  
Photo M. Zajac; see p. 5–23.

## Catathelasma

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## Instructions to Authors

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  - **data from internet:** Thiers, B. (on-line). *Index Herbariorum: A global directory of public herbaria and associated staff*. <http://sweetgum.nybg.org/ih/> [accessed 30 April 2015].
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## GENUS *HYGROCYBE* IN KYSUCE REGION, NORTHWESTERN SLOVAKIA, PART II.

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Zajac, M., Zajacová, J., Kunca, V. & Cechová, M. 2016. Genus *Hygrocybe* in Kysuce region, northwestern Slovakia, part II. *Catathelasma* 17: 5–23. Twenty-one species of the genus *Hygrocybe* were recorded during the mycological research in 2013–2014 in the Kysuce region (Jablunkovské medzihorie, Javorníky, Kysucké Beskydy and Turzovská vrchovina Mts). For the studied area, three new unpublished species (*H. nitrata*, *H. phaeococcinea* and *H. spadicea*) were identified. One new species (*H. subpapillata*) and two new varieties (*H. glutinipes* var. *rubra* and *H. chlorophana* var. *aurantiaca*) were identified during the revision of the herbarium specimens collected in the first part of research in 2008–2012. In our paper, we adduce the main identification characters of all taxa, we rate the frequency of their occurrence, and complete the list of the localities in the Kysuce region.

Zajac, M., Zajacová, J., Kunca, V. & Cechová, M. 2016. Rod *Hygrocybe* na Kysuciach, severozápadné Slovensko. II. časť. *Catathelasma* 17: 5–23. Počas mykologického výskumu rodu *Hygrocybe* na Kysuciach (Jablunkovské medzihorie, Javorníky, Kysucké Beskydy a Turzovská vrchovina) sa v rokoch 2013–2014 zistilo celkovo 21 druhov. Pre skúmanú oblasť boli identifikované tri nové druhy (*H. nitrata*, *H. phaeococcinea* a *H. spadicea*). Jeden nový druh (*H. subpapillata*) a dve nové variety (*H. glutinipes* var. *rubra* and *H. chlorophana* var. *aurantiaca*) boli identifikované počas revízie herbarových exsikátov nájdených v období predošlého výskumu v rokoch 2008–2012. V príspevku uvádzame základné rozlišovacie znaky všetkých zistených taxónov, hodnotíme frekvenciu ich výskytu a doplníme zoznam lokalít na Kysuciach.

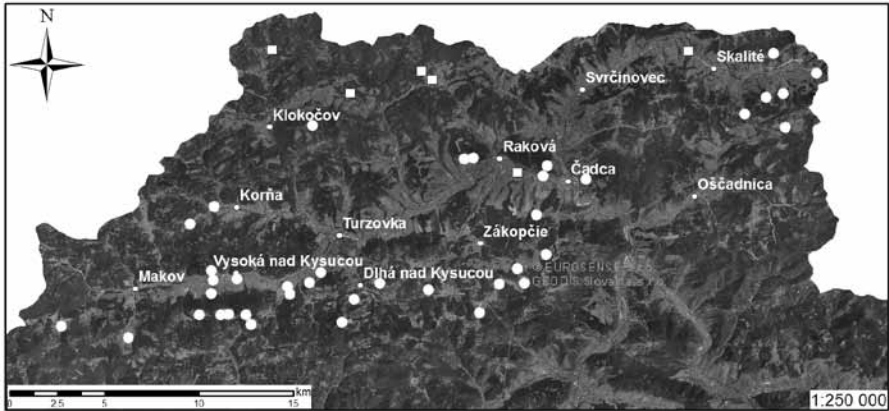
**Key words:** Agaricomycotina, *Hygrophoraceae*, grasslands, peat bogs

### Introduction

We are presenting the second part of the mycological research of the genus *Hygrocybe* in the Kysuce region. We are following our research realized in 2008–2012 (Zajac & Zajacová 2013) and the presented results represent a part of graduation thesis by Zajacová (2015). Our research complements knowledges of 18 species of the genus *Hygrocybe* in the Kysuce area recorded before 2008 (Šebek 1977, Kuthan 1987, 1989, Škubla 2003).

### Material and Methods

The research was provided in four geomorphological units of the Kysuce region (Jablunkovské medzihorie, Javorníky, Kysucké Beskydy and Turzovská vrchovina Mts) in 2013–2014. The total number of localities of the genus *Hygrocybe* recorded during complete research in 2008–2014 counts 45 (39 grasslands, 6 peat bogs, Map). The macromorphological characters were observed in fresh material. The micromorphological structures were observed in fresh and dried material using a light microscope. Taxonomic concept, nomenclature, determination characteristics, ecology of taxa and frequency in Europe follow Boertmann (2010). For each taxon, localities are listed alphabetically within the geomorphological units. At each locality, the name of the nearest village, type of habitat, altitude, geographic coordinates, square grid number (Q), date and name(s) of collector(s) are adduced. Position, geographic coordinates and altitude were determined by GPS navigation Garmin e-Trex 30. Only one herbarium specimen, most often with several basidiomata, was annually collected on each locality. Species frequency is estimated in accordance with the following scale: 1 locality – very rare species, 2–4 localities – rare species, 5–8 localities – common species, 9 and more localities – very common species. The specimens are deposited in Slovak National Museum herbarium (BRA).



Map. Research localities of the genus *Hygrocybe* in the Kysuce region visited in the years 2008–2014 (circles: grasslands, squares: peat bogs).

## Results

### *Hygrocybe calyptriformis* (Berk.) Fayod

A species with medium to large-sized basidiomata, rose, conical cap and pale whitish stem (see page 1). Although this species is included among 33 threatened fungi in Europe (Dahlberg & Croneborg 2003) and in the Red list of fungi of Slovakia (Lizoň 2001), it is very common in the Kysuce region.

**Jablunkovské medzihorie**, Skalité, Poľana, mesic meadow, mowed, alt. 758 m, 49° 30' 26.6" N, 18° 55' 54.3" E, Q 6479d, 22 August 2014, M. Zajac. **Javorníky**, Čadca, Vojty, old pasture, without management, alt. 693–700 m, 49° 24' 11.90" N, 18° 46' 27.82" E, 21 August 2014, Q 6578d, J. Zajacová, M. Zajac. – Čadca, Vojty, mesic meadow, mowed, alt. 616 m, 49° 30' 39.14" N, 18° 51' 49.30" E, 21 August 2014, Q 6578d, J. Zajacová, M. Zajac. **Kysucké Beskydy**, Skalité, Kýčera, mesic meadow, mowed, alt. 778 m, 49° 29' 6.5" N, 18° 56' 27.4" E, Q 6579b, 23 August 2014, M. Zajac, M. Cechová. – Skalité, Firkova Kýčera, mesic meadow, mowed, alt. 760 m, 49° 29' 17.1" N, 18° 55' 45.2" E, Q 6579b, 11 October 2014, M. Zajac, M. Cechová. – Skalité, Drobiská, mesic meadow, mowed, alt. 566 m, 49° 28' 41.7" N, 18° 54' 57.5" E, Q 6579a, 11 October 2014, M. Zajac, M. Cechová.

***Hygrocybe cantharellus*** (Schwein.) Murrill

A species with small, reddish or orange basidiomata, dry squamulose cap and decurrent gills. It is a common species in Europe. In the Kysuce region, we recorded it only at three localities during the previous research (Zajac & Zajacová 2010). However, in 2013–2014, *H. cantharellus* was found in 15 other localities and it belongs among the very common species in the Kysuce region.

**Jablunkovské medzihorie**, Skalité, Poľana, mesic meadow, mowed, alt. 758 m, 49° 30' 26.6" N, 18° 55' 54.3" E, Q 6479d, 22 August 2014, M. Zajac, M. Cechová. **Javorníky**, Čadca, Vojty, old pasture, without management, alt. 693 m, 49° 24' 11.90" N, 18° 46' 25.6" E, Q 6578d, 21 August 2014, J. Zajacová, M. Zajac. – Makov, Kršlisko, mesic meadow, mowed, alt. 779 m, 49° 21' 02.3" N, 18° 25' 59.6" E, Q 6676b, 11 October 2014, J. Zajacová, M. Zajac. – Turzovka, under the Kýčerca hill, mesic meadow, mowed, alt. 521 m, 49° 22' 57.1" N, 18° 36' 53.6" E, Q 6677b, 7 October 2014, M. Zajac. – Turzovka, under the Veľká lúka hill, old pasture, without management, alt. 531 m, 49° 23' 14.7" N, 18° 37' 03.2" E, Q 6677b, 7 October 2014, M. Zajac. – Turzovka, over the Semeteš road, near the forest, mesic meadow, mowed, alt. 570 m, 49° 22' 35.92" N, 18° 35' 45.31" E, Q 6677b, 27 August 2014, J. Zajacová, M. Zajac. – Vysoká nad Kysucou, Janetkovský potok, mesic meadow, intensively grazed, alt. 600 m, 49° 22' 14.97" N, 18° 32' 06.41" E, Q 6677a, 31 August 2014, J. Zajacová. – Zákopčie, Blažkovci, mesic meadow (fallow), mowed, alt. 761 m, 49° 23' 15.5" N, 18° 45' 34.9" E, Q 6678b, 21 August 2014, J. Zajacová, M. Zajac. – Zákopčie, Holých, mesic meadow, mowed, alt. 640 m, 49° 23' 41.4" N, 18° 45' 37.6" E, Q 6678b, 28 September 2013, J. Zajacová, M. Zajac. – Zákopčie, view-tower Petránky, mesic meadow, mowed and extensively grazed, alt. 832 m, 49° 22' 26.3" N, 18° 43' 57.0" E, Q 6678a, 21 August 2014, J. Zajacová, M. Zajac. **Kysucké Beskydy**, Skalité, Firkova Kýčera, mesic meadow, mowed, alt. 760 m, 49° 29' 17.1" N, 18° 55' 45.2" E, Q 6578d, 11 October 2014, M. Zajac, M. Cechová. – Skalité, Kýčera, mesic meadow, mowed, alt. 778 m, 49° 29' 6.5" N, 18° 56' 27.4" E, Q 6578d, 23 August 2014, M. Zajac, M. Cechová. – Skalité, Skalaňka, mesic meadow, alt. mowed, 695 m, 49° 29' 56.55" N, 18° 58' 10.28" E, Q 6579b, 18 August 2014, M. Zajac, M. Cechová. – Skalité, Skalaňka, the border of forest, alt. 732 m, 49° 29' 15.76" N, 18° 57' 29.31" E, Q 6579b, 18 August 2014, M. Zajac, M. Cechová. **Turzovská vrchovina**, Raková, Bukovina, mesic meadow, mowed, alt. 505 m, 49° 26' 47.22" N, 18° 43' 10.37" E, Q 6578c, 31 October 2014, J. Zajacová, M. Zajac.



***Hygrocybe ceracea*** (Sowerby) P. Kumm.

A species with small, yellow basidiomata, lubricous cap, dry stem and adnate to decurrent gills. It is common species in Europe and very common species in the research area. We think that it is often undistinguished or neglected.

**Javorníky**, Turzovka, over the Semeteš road, near the forest, mesic meadow, mowed, alt. 570 m, 49° 22' 35.92" N, 18° 35' 45.31" E, Q 6677b, 27 August 2014, J. Zajacová, M. Zajac. – Zákopčie, Holých, mesic meadow, mowed, alt. 700 m, 49° 23' 40.7" N, 18° 45' 37.6" E, Q 6678b, 28 September 2013, J. Zajacová, M. Zajac. **Kysucké Beskydy**, Oščadnica, Vreščovka, mesic meadow, mowed, alt. 664 m, 49° 28' 21.0" N, 18° 56' 41.5" E, Q 6579b, 11 October 2014, M. Zajac.

***Hygrocybe chlorophana*** (Fr.) Wünsche

A species with medium-sized, yellow to orange-yellow basidiomata, viscid cap, smooth, finely squamulose on top, dry or moist stem and adnexed gills. It belongs to the very common species in the Europe and in the research area.

**Jablunkovské medzihorie**, Skalité, Poľana, mesic meadow, mowed, alt. 758 m, 49° 30' 26.6" N, 18° 55' 54.3" E, Q 6479d, 22 August 2014, M. Zajac, M. Cechová. **Javorníky**, Čadca, Kýčerka, mesic meadow, mowed, alt. 527 m, 49° 25' 23.2" N, 18° 45' 47.9" E, Q 6578d, 31 October 2014, J. Zajacová, M. Zajac. – Dlhá nad Kysucou, Kamenité, mesic meadow, mowed, alt. 830 m, 49° 21' 54" N, 18° 38' 03" E, Q 6677b, 26 October 2013, J. Zajacová, M. Zajac. – Makov, Kršlisko, mesic meadow, mowed, alt. 779 m, 49° 21' 02.3" N, 18° 25' 59.6" E, Q 6676b, 11 October 2014, J. Zajacová, M. Zajac. – Turzovka, under the Kýčerka hill, mesic meadow, mowed, alt. 612 m, 49° 23' 01.1" N, 18° 36' 58.8" E, Q 6677b, 7 October 2014, M. Zajac. – Turzovka, under the Veľká lúka hill, mesic meadow, mowed, alt. 612 m, 49° 23' 01.1" N, 18° 36' 58.8" E, Q 6677b, 7 October 2014, M. Zajac. – Turzovka, over the Semeteš road, near the forest, mesic meadow, mowed, alt. 570 m, 49° 22' 35.40" N, 18° 35' 46.90" E, Q 6677b, 26 October 2013, J. Zajacová, M. Zajac. – Turzovka, over the Semeteš road, recultivated meadow, mowed, alt. 517 m, 49° 22' 45.0" N, 18° 35' 35.10" E, Q 6677b, 27 August 2014, J. Zajacová, M. Zajac. – Zákopčie, Blažkovci, mesic meadow (fallow), mowed, alt. 761 m, 49° 23' 15.5" N, 18° 45' 34.9" E, Q 6678b, 21 August 2014, J. Zajacová, M. Zajac.

– Zákopčie, Holých, mesic meadow, mowed, alt. 640 m, 49° 23' 41.4" N, 18° 45' 37.6" E, Q 6678b, 28 September 2013, J. Zajacová, M. Zajac. – Zákopčie, Holešovci, mesic meadow, mowed and extensively grazed, alt. 789 m, 49° 23' 17.5" N, 18° 44' 47.1" E, Q 6678a, 28 September 2013, J. Zajacová, M. Zajac. – Zákopčie, view-tower Petránky, mesic meadow, mowed and extensively grazed, alt. 832 m, 49° 22' 26.3" N, 18° 43' 57.0" E, Q 6678a, 21 August 2014, J. Zajacová, M. Zajac. **Kysucké Beskydy**, Skalité, Firkova Kýčera, mesic meadow, mowed, alt. 760 m, 49° 29' 17.1" N, 18° 55' 45.2" E, Q 6579b, 11 October 2014, M. Zajac, M. Cechová. – Skalité, Kýčera, ruderalized meadow, mowed, alt. 720 m, 49° 29' 20.5" N, 18° 56' 28.9" E, Q 6579b, 23 August 2014, M. Zajac, M. Cechová. – Skalité, Skalaňka, mesic meadow, mowed, alt. 695 m, 49° 29' 56.55" N, 18° 58' 10.28" E, Q 6579b, 27 July 2014, M. Zajac, M. Cechová. **Turzovská vrchovina**, Korňa, Korduliakovci, mesic meadow, mowed, alt. 569 m, 49° 24' 48.6" N, 18° 32' 02.5" E, Q 6577c, 21 August 2014, J. Zajacová, M. Zajac. Korňa, Kormaníková, mesic meadow, mowed, alt. 626 m, 49° 24' 15.17" N, 18° 31' 09.5" E, Q 6577c, 21 August 2014, J. Zajacová, M. Zajac.

### ***Hygrocybe chlorophana* var. *aurantiaca* Bon**

This variety differs from the nominate variety of the species in orange or reddish colours of cap and stem. It was found only once with the nominate variety in 2010 and additionally identified from the photos in 2014.

**Javorníky**, Vysoká nad Kysucou, Dučkov, mesic meadow, mowed, alt. 719 m, 49° 21' 38.30" N, 18° 31' 49.24" E, Q 6677a, 2 October 2010, M. Zajac.

### ***Hygrocybe citrinovirens* (J. E. Lange) Jul. Schäff.**

A species with medium to large-sized, lemon yellow to greenish-yellow, non-blackening and dry basidiomata, radially fibrillose and conical cap and a smooth or finely fibrillose stem. It is presented as a rare species in Europe and it is listed in the IUCN Red List of Threatened Species (Kautmanová et al. on-line). In 2014, it was found on 11 new localities and it was one of the most common species in our study area this year. It belongs to the very common species in the Kysuce region.

**Jablunkovské medzihorie**, Skalité, Poľana, mesic meadow, mowed, alt. 758 m, 49° 30' 26.6" N, 18° 55' 54.3" E, Q 6479d, 22 August 2014,

M. Zajac, M. Cechová. **Javorníky**, Čadca, Vojty, old pasture, without management, alt. 693 m, 49° 24' 11.90" N, 18° 46' 25.6" E, 6578d, 21 August 2014, J. Zajacová, M. Zajac. – Turzovka, under the Kýčerka hill, mesic meadow, mowed, alt. 612 m, 49° 23' 01.1" N, 18° 36' 58.8" E, Q 6677b, 7 October 2014, M. Zajac. – Turzovka, under the Veľká lúka hill, mesic meadow, mowed, alt. 612 m, 49° 23' 01.1" N, 18° 36' 58.8" E, Q 6677b, 7 October 2014, M. Zajac. – Turzovka, over the Semeteš road, near the forest, mesic meadow, mowed, alt. 570 m, 49° 22' 35.92" N, 18° 35' 45.31" E, Q 6677b, 27 August 2014, J. Zajacová, M. Zajac. – Zákopčie, view-tower Petránky, mesic meadow, mowed and extensively grazed, alt. 832 m, 49° 22' 26.3" N, 18° 43' 57.0" E, Q 6678a, 21 August 2014, J. Zajacová, M. Zajac. **Kysucké Beskydy**, Skalité, Drobiská, mesic meadow, mowed, alt. 566 m, 49° 28' 41.7" N, 18° 54' 57.5" E, Q 6579a, 11 October 2014, M. Zajac, M. Cechová. – Skalité, Firkova Kýčera, mesic meadow, mowed, alt. 760 m, 49° 29' 17.1" N, 18° 55' 45.2" E, Q 6579b, 11 October 2014, M. Zajac, M. Cechová. – Skalité, Kýčera, mesic meadow, mowed, alt. 778 m, 49° 29' 6.5" N, 18° 56' 27.4" E, Q 6579b, 23 August 2014, M. Zajac, M. Cechová. – Skalité, Skalaňka, mesic meadow, mowed, alt. 697 m, 49° 29' 56.6" N, 18° 58' 11.1" E, Q 6579b, 18 August 2014, M. Zajac, M. Cechová. **Turzovská vrchovina**, Čadca, Sihelník, mesic meadow, mowed, alt. 418 m, 49° 26' 28.81" N, 18° 45' 56.92" E, Q 6578d, 21 August 2014, J. Zajacová, M. Zajac.

***Hygrocybe coccinea*** (Schaeff.) P. Kumm.

A species with medium-sized basidiomata, lubricous, scarlet, convex cap and broadly adnate gills. It is a common species in Europe and very common in Kysuce region.

**Jablunkovské medzihorie**, Skalité, Poľana, mesic meadow, mowed, alt. 758 m, 49° 30' 26.6" N, 18° 55' 54.3" E, Q 6479d, 22 August 2014, M. Zajac, M. Cechová. **Javorníky**, Makov, Čerenka, mesic meadow, mowed (ski-lift), alt. 836 m, 49° 20' 28.6" N, 18° 28' 35.4" E, Q 6676d, 11 October 2014, J. Zajacová. – Turzovka, over the Semeteš road, near the forest, mesic meadow, mowed, alt. 570 m, 49° 22' 35.92" N, 18° 35' 45.31" E, Q 6677b, 26 October 2013, J. Zajacová, M. Zajac. – Vysoká nad Kysucou, mesic meadow, mowed and extensively grazed, in manse garden alt. 539 m, 49° 22' 44.3" N, 18° 32' 47.7" E, Q 6677a, 1 November 2013, J. Zajacová. – Vysoká nad Kysucou, Semeteš, Cipár, mesic meadow, mowed, alt. 699 m, 49° 21' 30.7" N, 18° 33' 57.3" E,

Q 6677a, 24 October 2013, J. Zajacová. – Vysoká nad Kysucou, Vrchrieka, Šupíkovci, mesic meadow, mowed, alt. 767 m, 49° 21' 41.3" N, 18° 33' 15.7" E, Q 6677a, 24 October 2013, J. Zajacová. – Zákopčie, Holých, mesic meadow, mowed, alt. 640 m, 49° 23' 41.4" N, 18° 45' 37.6" E, Q 6678b, 28 September 2013, J. Zajacová, M. Zajac. **Turzovská vrchovina**, Korňa, Kormaníková, mesic meadow, mowed, alt. 626 m, 49° 24' 15.17" N, 18° 31' 09.5" E, Q 6577c, 21 August 2014, J. Zajacová, M. Zajac.

***Hygrocybe conica*** (Schaeff.) P. Kumm.

A species with variable-sized, yellow, orange to red basidiomata, ± conical cap with yellowish fibrillose stem that always becomes black when handled or with age. It is a very common species in Europe and in the study area. It generally grows singly, or in the small groups, often in the intensified meadows.

**Jablunkovské medzihorie**, Skalité, Poľana, mesic meadow, mowed, alt. 758 m, 49° 30' 26.6" N, 18° 55' 54.3" E, Q 6479d, 22 August 2014, M. Zajac, M. Cechová. **Javorníky**, Čadca, Vojty, old pasture, without management, alt. 693 m, 49° 24' 11.90" N, 18° 46' 25.6" E, Q 6578d, 21 August 2014, J. Zajacová, M. Zajac – Dlhá nad Kysucou, Kormanovci, mesic meadow, mowed, alt. 670 m, 49° 22' 28" N, 18° 38' 39" E, Q 6677b, 26 October 2013, J. Zajacová, M. Zajac. – Vysoká nad Kysucou, Janetkovský potok, mesic meadow (three years old fallow), mowed, in the garden, alt. 600 m, 49° 22' 14.97" N, 18° 32' 06.41" E, Q 6677a, 20 August 2014, J. Zajacová, M. Zajac. – Zákopčie, Blažkovci, mesic meadow (fallow), mowed, alt. 761 m, 49° 23' 15.5" N, 18° 45' 34.9" E, Q 6678b, 21 August 2014, J. Zajacová, M. Zajac. **Turzovská vrchovina**, Čadca, Sihelník, mesic meadow, mowed, alt. 418 m, 49° 26' 28.81" N, 18° 45' 56.92" E, Q 6578d, 21 August 2014, J. Zajacová, M. Zajac. – Raková, Bukovina, mesic meadow, mowed, alt. 495 m, 49° 26' 46.87" N, 18° 42' 51.27" E, Q 6578c, 31 October 2014, J. Zajacová, M. Zajac.

***Hygrocybe flavipes*** (Britzelm.) Arnolds

A medium-sized species with greyish to greyish-brown cap, whitish stem with yellowish base and decurrent gills (see page 2 down). It is a very rare species in Europe and it grows only on the well-preserved, *Hygrocybe* species-rich grasslands. With a total number of 5 localities, it is a common species in the research area, but in Slovakia was collected only rarely.

**Jablunkovské medzihorie**, Skalité, Poľana, mesic meadow, mowed, alt. 758 m, 49° 30' 26.6" N, 18° 55' 54.3" E, Q 6479d, 22 August 2014, M. Zajac, M. Cechová. **Kysucké Beskydy**, Skalité, Drobiská, mesic meadow, mowed, alt. 566 m, 49° 28' 41.7" N, 18° 54' 57.5" E, Q 6579a, 11 October 2014, M. Zajac, M. Cechová. **Turzovská vrchovina**, Čadca, Sihelník, mesic meadow, mowed, alt. 418 m, 49° 26' 28.81" N, 18° 45' 56.92" E, Q 6578d, 9 November 2013, J. Zajacová, M. Zajac. – Čadca, Sihelník, mesic meadow, mowed, alt. 418 m, 49° 26' 27.22" N, 18° 45' 55.84" E, Q 6578d, 21 September 2013, M. Zajac. – Vysoká nad Kysucou, Klinkovský vrch, mesic meadow, mowed, alt. 582 m, 49° 23' 00.71" N, 18° 32' 12.64" E, Q 6677a, 27 October 2014, M. Zajac.

***Hygrocybe glutinipes*** (J. E. Lange) R. Haller Aar.

A species with small, yellow to yellow-orange basidiomata, viscid cap and stem and adnate to subdecurrent gills. It is a rare species in Europe, but common in the study area. It could be often undistinguished or probably often neglected because of its small sized basidiomata.

**Jablunkovské medzihorie**, Skalité, Poľana, mesic meadow, mowed, alt. 758 m, 49° 30' 26.6" N, 18° 55' 54.3" E, Q 6479d, 22 August 2014, M. Zajac, M. Cechová. **Javorníky**, Makov, Čerenka, mesic meadow, mowed (ski-lift), alt. 836 m, 49° 20' 28.6" N, 18° 28' 35.4" E, Q 6676d, 11 October 2014, J. Zajacová. – Turzovka, under the Kýčerka hill, terrace overgrown by common hazel, alt. 581 m, 49° 22' 56.1" N, 18° 36' 41.32" E, Q 6677b, 7 October 2014, M. Zajac. – Turzovka, under the Kýčerka hill, mesic meadow, mowed, alt. 581 m, 49° 23' 07.6" N, 18° 37' 00.7" E, Q 6677b, 7 October 2014, M. Zajac. – Vysoká nad Kysucou, Dučkov, mesic meadow, mowed, alt. 719 m, 49° 21' 38.30" N, 18° 31' 49.24" E, Q 6677a, 10 October 2014, J. Zajacová. **Turzovská vrchovina**, Raková, Bukovina, mesic meadow, mowed, alt. 495 m, 49° 26' 46.87" N, 18° 42' 51.27" E, Q 6578c, 31 October 2014, J. Zajacová, M. Zajac.

***Hygrocybe glutinipes* var. *rubra*** Bon

This variety has similar basidiomata as *H. glutinipes* var. *glutinipes*, but with reddish or scarlet colours on the cap and stem. It was collected only once in 2010, but unpublished and additionally identified only in 2014 from the herbarium specimen.

**Turzovská vrchovina**, Raková, Bukovina, mesic meadow, mowed, alt. 495 m, 49° 26' 46.87" N, 18° 42' 51.27" E, Q 6578c, 9 October 2010, J. Zajacová, M. Zajac.

***Hygrocybe ingrata*** J. P. Jensen & F. H. Møller

A medium-sized species with reddish-brown to orange-brown cap, cream coloured stem and gills. It smells nitrous and the flesh is reddening after cut. It is a rare species in Europe, listed in the IUCN Red List of Threatened Species (Kautmanová et al. on-line). In 2014, we collected it on several localities and it belongs among the very common species in the Kysuce region.

**Jablunkovské medzihorie**, Skalité, Poľana, mesic meadow, mowed, alt. 758 m, 49° 30' 26.6" N, 18° 55' 54.3" E, Q 6479d, 22 August 2014, M. Zajac, M. Cechová. – Zákopčie, Holých, mesic meadow, mowed, alt. 640 m, 49° 23' 41.4" N, 18° 45' 37.6" E, Q 6678b, 21 August 2014, J. Zajacová, M. Zajac. **Javorníky**, Turzovka, over the Semeteš road, near the forest, mesic meadow, mowed, alt. 570 m, 49° 22' 35.92" N, 18° 35' 45.31" E, Q 6677b, 27 August 2014, J. Zajacová, M. Zajac. **Kysucké Beskydy**, Skalité, Firkova Kýčera, mesic meadow, mowed, alt. 760 m, 49° 29' 17.1" N, 18° 55' 45.2" E, Q 6579b, 23 August 2014, M. Zajac, M. Cechová. – Skalité, Skaľanka, mesic meadow, mowed, 675 m, 49° 29' 58.6" N, 18° 58' 07.1" E, Q 6579b, 18 August 2014, M. Zajac, M. Cechová. **Turzovská vrchovina**, Čadca, Sihelník, mesic meadow, mowed, alt. 418 m, 49° 26' 28.81" N, 18° 45' 56.92" E, Q 6578d, 21 August 2014, J. Zajacová, M. Zajac. – Korňa, Kormaníková, mesic meadow, mowed, alt. 626 m, 49° 24' 15.17" N, 18° 31' 09.5" E, Q 6577c, 21 August 2014, J. Zajacová, M. Zajac.

***Hygrocybe insipida*** (J. E. Lange) M. M. Moser

A small species with orange or yellowish basidiomata characterised by lubricous cap, moist stem and decurrent or subdecurrent gills. This species is common in Europe and also in our study area, but undistinguished, sometimes neglected and especially in adverse weather hardly determinable in the field (Boertmann 2010).

**Jablunkovské medzihorie**, Skalité, Poľana, mesic meadow, mowed, alt. 758 m, 49° 30' 26.6" N, 18° 55' 54.3" E, Q 6479d, 22 August 2014, M. Zajac, M. Cechová. **Javorníky**, Turzovka, under the Kýčerka hill,

mesic meadow, mowed, alt. 581 m, 49° 23' 07.6" N, 18° 37' 00.7" E, Q 6677b, 7 October 2014, M. Zajac. – Turzovka, under the Veľká lúka hill, mesic meadow, mowed, alt. 527 m, 49° 23' 16.1" N, 18° 37' 07.3" E, Q 6677b, 7 October 2014, M. Zajac. – Turzovka, over the Semeteš road, near the forest, mesic meadow, mowed, alt. 570 m, 49° 22' 35.92" N, 18° 35' 45.31" E, Q 6677b, 26 October 2013, J. Zajacová, M. Zajac. – Zákopčie, Blažkovci, mesic meadow (fallow), mowed, alt. 761 m, 49° 23' 15.5" N, 18° 45' 34.9" E, Q 6678b, 21 August 2014, J. Zajacová, M. Zajac. – Zákopčie, Holých, mesic meadow, mowed, alt. 640 m, 49° 23' 41.4" N, 18° 45' 37.6" E, Q 6678b, 28 September 2013, J. Zajacová, M. Zajac. – Zákopčie, u Polievkov, mesic meadow, mowed, alt. 590 m, 49° 22' 53.1" N, 18° 41' 47.6" E, Q 6678b, 26 October 2013, J. Zajacová, M. Zajac. **Kysucké Beskydy**, Skalité, Skaľanka, mesic meadow, mowed, alt. 684 m, 49° 29' 57.9" N, 18° 58' 08.7" E, Q 6579b, 18 August 2014, M. Zajac, M. Cechová.

### ***Hygrocybe irrigata* (Pers.) Bon**

A species with brownish or greyish coloured basidiomata, viscid on both cap and stem. This species is rarer in Europe, but as it was found on many localities in fair weather in 2014, it belongs to the very common species in the Kysuce region.

**Javorníky**, Dlhá nad Kysucou, Vircovci, mesic meadow, mowed, alt. 709 m, 49° 22' 58.9" N, 18° 39' 11.0" E, Q 6677b, 26 October 2013, J. Zajacová, M. Zajac. – Makov, Kršlisko, mesic meadow, mowed, alt. 779 m, 49° 21' 02.3" N, 18° 25' 59.6" E, Q 6676b, 11 October 2014, J. Zajacová, M. Zajac. – Makov, Kršlisko, overgrown balk on the border of meadow, alt. 811 m, 49° 20' 56.9" N, 18° 26' 05.6" E, Q 6676b, 11 October 2014, J. Zajacová, M. Zajac. – Turzovka, under the Kýčerka hill, mesic meadow, mowed, alt. 612 m, 49° 23' 01.1" N, 18° 36' 58.8" E, Q 6677b, 7 October 2014, M. Zajac. – Turzovka, under the Veľká lúka hill, mesic meadow, mowed, alt. 612 m, 49° 23' 01.1" N, 18° 36' 58.8" E, Q 6677b, 7 October 2014, M. Zajac. – Zákopčie, view-tower Petránky, mesic meadow, mowed and extensively grazed, alt. 832 m, 49° 22' 26.3" N, 18° 43' 57.0" E, Q 6678a, 21 August 2014, J. Zajacová, M. Zajac. **Kysucké Beskydy**, Skalité, Drobiská, mesic meadow, mowed, alt. 566 m, 49° 28' 41.7" N, 18° 54' 57.5" E, Q 6579a, 11 October 2014, M. Zajac, M. Cechová. – Skalité, Firkova Kýčera, mesic meadow, mowed, alt. 760 m, 49° 29' 17.1" N, 18° 55' 45.2" E, Q 6579b, 11 October 2014, M. Zajac,

M. Cechová. – Skalité, Kýčera, mesic meadow, mowed, alt. 755 m, 49° 29' 11.2" N, 18° 56' 28.5" E, Q 6579b, 23 August 2014, M. Zajac. – Skalité, Skaľanka, mesic meadow, mowed, alt. 697 m, 49° 29' 56.6" N, 18° 58' 11.1" E, Q 6579b, 18 August 2014, M. Zajac, M. Cechová. **Turzovská vrchovina**, Čadca, Sihelník, mesic meadow, mowed, alt. 418 m, 49° 26' 28.81" N, 18° 45' 56.92" E, Q 6578d, 26 October 2013, J. Zajacová, M. Zajac. – Turzovka, Hlinené, mesic meadow, mowed, alt. 800 m, 49° 27' 24.8" N, 18° 36' 05.6" E, Q 6577b, 7 October 2014, M. Zajac.

***Hygrocybe laeta*** (Pers.) P. Kumm.

A species with small or medium-sized basidiomata. The viscid basidiomata smell like burnt rubber and they are characteristic by dull brownish-orange cap and stem and whitish, decurrent gills. Generally, it does not belong to the rarest species in Europe, nevertheless it is very rare in our research area.

**Javorníky**, Čadca, Vojty, old pasture, without management, alt. 693 m, 49° 24' 11.90" N, 18° 46' 25.6" E, Q 6578d, 31 October 2013, J. Zajacová, M. Zajac.

***Hygrocybe miniata*** (Fr.) P. Kumm.

A small to medium-sized species with reddish basidiomata, dry and finely squamulose cap and broadly adnate gills. In Europe, it is a very common species, but in the Kysuce region it was found only on two localities by our research (one locality in the recent research). However possibly could be more common.

**Jablunkovské medzihorie**, Skalité, Poľana, mesic meadow, mowed, alt. 758 m, 49° 30' 26.6" N, 18° 55' 54.3" E, Q 6479d, 22 August 2014, M. Zajac, M. Cechová.

***Hygrocybe nitrata*** (Pers.) Wünsche

A species with medium sized greyish-brown basidiomata, clearly nitrous smell and usually with a squamulose or fibrillose cap. The fruitbodies are without colour changes (reddening). It belongs to the very rare species in Europe, much like in our study area.

**Jablunkovské medzihorie**, Skalité, Poľana, mesic meadow, mowed, alt. 743 m, 49° 30' 20.1" N, 18° 55' 34.9" E, Q 6479d, 22 August 2014, M. Zajac, M. Cechová.



***Hygrocybe phaeococcinea*** (Arnolds) Bon

A species with a small, dry, dark red cap with black coating in the centre and deep orange or reddish gills. It belongs to the rare species in Europe and also in the Kysuce region, but it could be often undistinguished, neglected or incorrect identified.

**Javorníky**, Turzovka, under the Veľká lúka hill, old pasture, without management, alt. 531 m, 49° 23' 14.7" N, 18° 37' 03.2" E, Q 6677b, 7 October 2014, M. Zajac. **Turzovská vrchovina**, Raková, Bukovina, mesic meadow, mowed, alt. 459 m, 49° 26' 39.6" N, 18° 43' 01.5" E, Q 6578c, 24 October 2014, (only one fruitbody), J. Zajacová, M. Zajac.

***Hygrocybe pratensis*** (Fr.) Murill

A species with medium or large basidiomata, with pale to dull orange cap and decurrent gills. It is common outside Europe and very common in our study area.

**Jablunkovské medzihorie**, Skalité, Poľana, mesic meadow, mowed, alt. 758 m, 49° 30' 26.6" N, 18° 55' 54.3" E, Q 6479d, 22 August 2014, M. Zajac, M. Cechová. **Javorníky**, Čadca, Kýčerka, mesic meadow, mowed, alt. 530 m, 49° 25' 23.2" N, 18° 45' 47.9" E, Q 6578d, 31 October 2013, M. Zajac. – Čadca, Vojty, old pasture, without management, alt. 693 m, 49° 24' 11.90" N, 18° 46' 25.6" E, Q 6578d, 21 August 2014, J. Zajacová, M. Zajac. – Dlhá nad Kysucou, Vircovci, mesic meadow, mowed, alt. 709 m, 49° 22' 58.9" N, 18° 39' 11.0" E, Q 6677b, 26 October 2013, J. Zajacová, M. Zajac. – Makov, Čerenka, mesic meadow, mowed (ski-lift), alt. 836 m, 49° 20' 28.6" N, 18° 28' 35.4" E, Q 6676d, 11 October 2014, J. Zajacová. – Turzovka, under the Kýčerka hill, mesic meadow, mowed, alt. 621 m, 49° 22' 57.1" N, 18° 36' 53.6" E, Q 6677b, 7 October 2014, M. Zajac. – Turzovka, under the Kýčerka hill, mesic meadow, mowed, alt. 581 m, 49° 23' 07.6" N, 18° 37' 00.7" E, Q 6677b, 7 October 2014, M. Zajac. – Turzovka, under the Veľká lúka hill, mesic meadow, mowed, alt. 527 m, 49° 23' 16.1" N, 18° 37' 07.3" E, Q 6677b, 7 October 2014, M. Zajac. – Turzovka, over the Semeteš road, near the forest, mesic meadow, mowed, alt. 570 m, 49° 22' 35.92" N, 18° 35' 45.31" E, Q 6677b, 26 October 2013, J. Zajacová, M. Zajac. – Vysoká nad Kysucou, Semeteš, Cipár, mesic meadow, mowed, alt. 699 m, 49° 21' 30.7" N, 18° 33' 57.3" E, Q 6677a, 24 October 2013, J. Zajacová. **Kysucké Beskydy**, Skalité, Drobiská, mesic meadow, mowed, alt. 566 m, 49° 28' 41.7" N,

18° 54' 57.5" E, Q 6579a, 11 October 2014, M. Zajac, M. Cechová. – Skalité, Firkova Kýčera, mesic meadow, mowed, alt. 760 m, 49° 29' 17.1" N, 18° 55' 45.2" E, Q 6579b, 11 October 2014, M. Zajac, M. Cechová. – Skalité, Skaľanka, mesic meadow (fallow), mowed, alt. 687 m, 49° 29' 43.4" N, 18° 57' 42.8" E, Q 6579b, 22 November 2013, M. Zajac, M. Cechová. **Turzovská vrchovina**, Korňa, Kormaníková, mesic meadow, mowed, alt. 626 m, 49° 24' 15.17" N, 18° 31' 09.5" E, Q 6577c, 21 August 2014, J. Zajacová, M. Zajac.

***Hygrocybe psittacina*** (Schaeff.) P. Kumm.

A species with small to medium-sized basidiomata, green, yellowish or pinkish, viscid cap and stem. Generally, it is a widely distributed species in Europe and also very common in our study area.

**Jablunkovské medzihorie**, Skalité, Poľana, mesic meadow, mowed, alt. 758 m, 49° 30' 26.6" N, 18° 55' 54.3" E, Q 6479d, 22 August 2014, M. Zajac, M. Cechová. – Vysoká nad Kysucou, Vrchrieka, Šupíkovci, mesic meadow, mowed, 767 m, 49° 21' 41.3" N, 18° 33' 15.7" E, Q 6677a, 24 October 2013, J. Zajacová. **Javorníky**, Dlhá nad Kysucou, Kamenité, mesic meadow, mowed, alt. 830 m, 49° 21' 54" N, 18° 38' 03" E, Q 6677b, 26 October 2013, J. Zajacová, M. Zajac. – Turzovka, over the Semeteš road, mesic meadow, mowed, alt. 570 m, 49° 22' 35.92" N, 18° 35' 45.31" E, Q 6677b, 26 October 2013, J. Zajacová, M. Zajac. – Zákopčie, Holých, mesic meadow, mowed, alt. 640 m, 49° 23' 41.4" N, 18° 45' 37.6" E, 28 September 2013, J. Zajacová, M. Zajac. – Zákopčie, Holešovci, mesic meadow, mowed and extensively grazed, alt. 789 m, 49° 23' 17.5" N, 18° 44' 47.1" E, Q 6678a, 21 August 2014, J. Zajacová, M. Zajac. **Kysucké Beskydy**, Skalité, Drobiská, mesic meadow, mowed, alt. 566 m, 49° 28' 41.7" N, 18° 54' 57.5" E, Q 6579a, 11 October 2014, M. Zajac, M. Cechová. – Skalité, Firkova Kýčera, mesic meadow, mowed, alt. 760 m, 49° 29' 17.1" N, 18° 55' 45.2" E, Q 6579b, 11 October 2014, M. Zajac, M. Cechová. – Skalité, Skaľanka, mesic meadow, mowed, alt. 766 m, 49° 29' 45.8" N, 18° 58' 14.70" E, Q 6579b, 22 November 2013, M. Zajac, M. Cechová.

***Hygrocybe punicea*** (Fr.) P. Kumm.

A species with a medium to large basidiomata, dark red lubricous to viscid cap and coarsely fibrillose stem. It grows only in the meadows with highly conservation value (McHugh et al. 2001), often together with many

other *Hygrocybe* species. It belongs to the rare species in Europe and common species in the Kysuce region.

**Javorníky**, Turzovka, over the Semeteš road, near the forest, mesic meadow, mowed, alt. 570 m, 49° 22' 35.92" N, 18° 35' 45.31" E, Q 6677b, 26 October 2013, J. Zajacová, M. Zajac. – **Zákopčie**, Holých, mesic meadow, mowed, alt. 640 m, 49° 23' 41.4" N, 18° 45' 37.6" E, Q 6678b, 28 September 2013, J. Zajacová, M. Zajac. **Turzovská vrchovina**, Vysoká nad Kysucou, Klinkovský vrch, meadow without management, alt. 560 m, 49° 22' 52.68" N, 18° 32' 13.80" E, Q 6677a, 16 November 2013, J. Zajacová, M. Zajac.

***Hygrocybe spadicea*** (Scop.) P. Karst.

A species with a medium-sized basidiomata, dark brown and radially fibrillose, sometimes slightly viscid cap and yellow stipe and gills (see page 2 up). It belongs to the rarest species in Europe and, simultaneously, it is a very rare species recorded in our study area, collected only once. It is also listed in the Red List of Fungi of Slovakia (Lizoň 2001).

**Turzovská vrchovina**, Čadca, Sihelník, mesic meadow, mowed, alt. 418 m, 49° 26' 28.81" N, 18° 45' 56.92" E, Q 6578d, 26 October 2013, J. Zajacová, M. Zajac.

***Hygrocybe subpapillata*** Kühner

A species with small, reddish or orange basidiomata, lubricous, often papillate cap, dry stem and broadly adnate gills. It belongs to the rare species in Europe, but sometimes it is hard to identify it and it could also be often neglected. It is very rare also in our study area, collected only once in 2012. It was additionally identified in 2014 from the herbarium specimen.

**Javorníky**, Vysoká nad Kysucou, Janetkovský potok, mesic meadow, intensively grazed, alt. 590 m, 49° 22' 14.97" N, 18° 32' 06.41" E, Q 6677a, 20 August 2012, J. Zajacová, M. Zajac.

***Hygrocybe virginea*** (Wulfen) P. D. Orton & Watling

A species with small to medium-sized, white basidiomata, slightly lubricous cap and decurrent gills. It is relatively tolerant to the change of natural conditions in the biotopes and it belongs to the very common species in Europe and also in our study area.

**Jablunkovské medzihorie**, Skalité, Poľana, mesic meadow, mowed, alt. 758 m, 49° 30' 26.6" N, 18° 55' 54.3" E, Q 6479d, 22 August 2014, M. Zajac, M. Cechová. **Javorníky**, Čadca, Vojty, old pasture, without management, alt. 693 m, 49° 24' 11.90" N, 18° 46' 25.6" E, Q 6578d, 21 August 2014, J. Zajacová, M. Zajac. – Dlhá nad Kysucou, Vircovci, mesic meadow, mowed, alt. 709 m, 49° 22' 58.9" N, 18° 39' 11.0" E, Q 6677b, 26 October 2013, J. Zajacová, M. Zajac. – Dlhá nad Kysucou, Kormanovci, mesic meadow, mowed, alt. 670 m, 49° 22' 28" N, 18° 38' 39" E, Q 6677b, 26 October 2013, J. Zajacová, M. Zajac. – Makov, Čerenka, mesic meadow, mowed (ski-lift), alt. 836 m, 49° 20' 286" N, 18° 28' 354" E, Q 6676d, 11 October 2014, J. Zajacová. – Turzovka, under the Veľká lúka hill, mesic meadow, mowed, alt. 527 m, 49° 23' 161" N, 18° 37' 073" E, Q 6677b, 7 October 2014, M. Zajac. – Turzovka, over the Semeteš road, near the forest, mesic meadow, mowed, alt. 570 m, 49° 22' 3592" N, 18° 35' 4531" E, Q 6677b, 26 October 2013, J. Zajacová, M. Zajac. – Vysoká nad Kysucou, Semeteš, Cipár, mesic meadow, mowed, alt. 699 m, 49° 21' 30.7" N, 18° 33' 57.3" E, Q 6677a, 24 October 2013, J. Zajacová. – Vysoká nad Kysucou, Vrchrieka, Šupíkovci, mesic meadow, mowed, alt. 767 m, 49° 21' 41.3" N, 18° 33' 15.7" E, Q 6677a, 24 October 2013, J. Zajacová. – Zákopčie, Blažkovci, mesic meadow (fallow), mowed, alt. 790 m, 49° 23' 15.5" N, 18° 45' 34.9" E, Q 6678b, 28 September 2013, J. Zajacová, M. Zajac. – Zákopčie, Holešovci, mesic meadow, mowed and extensively grazed, alt. 789 m, 49° 23' 17.5" N, 18° 44' 47.1" E, Q 6678a, 28 September 2013, J. Zajacová, M. Zajac. **Kysucké Beskydy**, Skalité, Drobiská, mesic meadow, mowed, alt. 566 m, 49° 28' 41.7" N, 18° 54' 57.5" E, Q 6579a, 11 October 2014, M. Zajac, M. Cechová. – Skalité, Firkova Kýčera, mesic meadow, mowed, alt. 760 m, 49° 29' 17.1" N, 18° 55' 45.2" E, Q 6579b, 11 October 2014, M. Zajac, M. Cechová. – Skalité, Skaľanka, mesic fallow, mowed, alt. 687 m, 49° 29' 43.4" N, 18° 57' 42.84" E, Q 6579b, 22 November 2014, M. Zajac, M. Cechová.

### Discussion

We recorded 22 species of the genus *Hygrocybe* during our research in the Kysuce region in 2013 and 2014 (Table). In comparison with our previous research in 2008–2012 (we recorded 25 species and 2 varieties that time), we have found three new species for the region (*Hygrocybe nitrata*, *H. phaeococcinea* and *H. spadicea*). We have also collected *Hygrocybe laeta* known from previous research before 2008 (CR4933

and CR4990, J. Kuthan 1966 and 1967 in BRA), but not found in 2008–2012. One new species (*Hygrocybe subpapillata*) and two new varieties (*Hygrocybe glutinipes* var. *rubra* and *H. chlorophana* var. *aurantiaca*) found in the first part of research in 2008–2012 were additionally identified after revision of herbarium specimens in 2014.

Table. The taxa of the genus *Hygrocybe* recorded in the Kysuce region

**Column I** – taxon. **Column II** – taxon recorded before 2008 (Šebek 1977, Kuthan 1987, 1989, Škubla 2003). **Column III** – taxon recorded in 2008–2012 with number of localities (Zajac & Zajacová 2013). **Column IV** – taxon recorded during the recent research with number of localities (this paper)

I	II	III	IV	I	II	III	IV
<i>Hygrocybe acutoconica</i>	✓	1	-	<i>Hygrocybe insipida</i>	-	4	8
<i>Hygrocybe aurantiosplendens</i>	✓	-	-	<i>Hygrocybe intermedia</i>	-	1	-
<i>Hygrocybe calyptriformis</i>	✓	8	4	<i>Hygrocybe irrigata</i>	✓	2	12
<i>Hygrocybe cantharellus</i>	✓	2	15	<i>Hygrocybe laeta</i>	✓	-	1
<i>Hygrocybe ceracea</i>	-	7	3	<i>Hygrocybe miniata</i>	✓	1	1
<i>Hygrocybe citrinovirens</i>	✓	2	11	<i>Hygrocybe nitrata</i>	-	-	1
<i>Hygrocybe coccinea</i>	✓	9	7	<i>Hygrocybe ovina</i>	✓	-	-
<i>Hygrocybe coccineocrenata</i>	-	6	-	<i>Hygrocybe phaeococcinea</i>	-	-	2
<i>Hygrocybe conica</i>	✓	8	4	<i>Hygrocybe pratensis</i>	-	8	12
<i>Hygrocybe flavipes</i>	-	1	5	<i>Hygrocybe psittacina</i>	✓	8	8
<i>Hygrocybe fornicata</i>	✓	-	-	<i>Hygrocybe punicea</i>	✓	5	1
<i>Hygrocybe glutinipes</i>	-	3	6	<i>Hygrocybe quieta</i>	✓	-	-
<i>Hygrocybe glutinipes</i> var. <i>rubra</i>	-	1	-	<i>Hygrocybe reidii</i>	-	1	-
<i>Hygrocybe helobia</i>	-	1	-	<i>Hygrocybe spadicea</i>	-	-	1
<i>Hygrocybe chlorophana</i>	✓	10	16	<i>Hygrocybe subpapillata</i>	-	1	-
<i>Hygrocybe chlorophana</i> var. <i>aurantiaca</i>	-	1	-	<i>Hygrocybe turunda</i>	-	1	-
<i>Hygrocybe ingrata</i>	✓	2	7	<i>Hygrocybe virginea</i>	-	11	12
<i>Hygrocybe irrigata</i>	✓	6	9				

We recorded four very rare species (*Hygrocybe acutoconica*, *H. laeta*, *H. nitrata*, *H. spadicea*, *H. subpapillata*), 2 rare species (*Hygrocybe miniata*, *H. phaeococcinea*), two common species (*H. flavipes*, *H. punicea*) and 14 very common species (*Hygrocybe calyptriformis*, *H. cantharellus*, *H. ceracea*, *H. citrinovirens*, *H. coccinea*, *H. conica*, *H. glutinipes*,

*H. chlorophana*, *H. ingrata*, *H. insipida*, *H. irrigata*, *H. pratensis*, *H. psittacina*, *H. virginea*) in our study area. The most common species (*Hygrocybe conica*, *H. chlorophana*, *H. pratensis* and *H. virginea*) occurring also the intensified meadows. We recorded also several new localities of rarer species (*Hygrocybe citrinovirens*, *H. ingrata*) in fair weather year 2014. The species richest localities are Čadca, Sihelník (16 species); Čadca, Vojty (16); Skalité, Poľana (15); Vysoká nad Kysucou, Klinkovský vrch (15) and Vysoká nad Kysucou, Vrchrieka (15). These grasslands are mowed or extensively pastured for decades, without ploughing or manuring. The *Hygrocybe* species are occurred in the Kysuce region mainly in small area (localities under one hectare) and also very fragmentary, only in the well-preserved parts of the meadows or pastures.

*Hygrocybe spadicea*, a very rare species in Europe (Boertmann 2010), was recorded only the fifth time in Slovakia (Škubla 2003), last time in 1988 from "Važecké lúky, Soliská" in foothill of High Tatras (Kuthan 1989). Approximately 10 basidiomata were found on the mowed meadow in Čadca, Sihelník locality together with 15 other species of the genus *Hygrocybe* (*H. calyptriformis*, *H. cantharellus*, *H. ceracea*, *H. citrinovirens*, *H. coccinea*, *H. conica*, *H. flavipes*, *H. chlorophana*, *H. ingrata*, *H. insipida*, *H. irrigata*, *H. pratensis*, *H. psittacina*, *H. punicea* and *H. virginea*). Moreover, new localities of species, which are considered to be very rare in Europe (Boertman 2010), were discovered during one research: four localities for *H. calyptriformis*, eleven for *H. citrinovirens*, five for *H. flavipes*, seven for *H. ingrata*, one for *H. nitrata* and two for *H. phaeococcinea* new localities recorded in our recent research.

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**BOOK NOTICES**

Soňa Jančovičová

N. P. Pridiuk. 2015. **Flora gribov Ukrainy. Bol'bitievye i koprinovye griby**. [Flora of the fungi of Ukraine. *Bolbitiaceae* and *Coprinaceae*]. Nacional'naja akademija nauk Ukrainy, Institut botaniki im. N. G. Gholodnovo, Kiev, [1]-600 p., hardcover, price not available, ISBN 978-966-02-7328-3.

If you want to know more on fungi of the families *Bolbitiaceae* and *Coprinaceae* by N. P. Pridiuk, you should be able to read the Cyrillic. If you are not, never mind, the line drawings are so beautiful that it is worth to have this book just because of them.

The monograph has two parts – a general and a taxonomic part. The general part includes chapters like delimitation of studied area, material and methods, general characteristics of macroscopical and microscopical features, ecology and distribution and practical usage of fungi of the families *Bolbitiaceae* and *Coprinaceae*.

In the taxonomic part, there are the keys for identification of taxa (species and infraspecific taxa) of the appropriate genera resp. sections. Within the *Bolbitiaceae* family, they are the taxa of the genera *Galeropsis* (1 taxon), *Bolbitius* (4 taxa), *Conocybe* (22) and *Pholiotina* (26). Within the *Coprinaceae* family, they are the taxa of *Coprinus* (99), *Lacrymaria* (3), *Psathyrella* (45), *Panaeolus* (7) and *Panaeolina* (1). Each taxon is provided with the synonyms, references to illustration(s), description of macroscopical and microscopical features (including the diagnostic features), ecology, distribution in Ukraine as well in the world.

A yellow-green hard cover of the book protects 600 pages of original knowledge on fungi of the families *Bolbitiaceae* and *Coprinaceae* from Ukraine. Anyway, the best protection for data on those fungi is their dissemination among the community – and it was started by publication of this book. It should be on the shelf of all those who are interested in dark spored agarics.



## FIELD IDENTIFICATION OF SOME MELANOLEUCA SPECIES (AGARICOMYCOTINA, TRICHOLOMATACEAE)

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Ďuriška, O., Tomšovský, M., Antonín, V. & Jančovičová, S. 2016. Field identification of some *Melanoleuca* species. *Catathelasma* 17: 25–33.

Identification of most taxa of the genus *Melanoleuca* is very complicated, requiring complex of micromorphological and molecular analyses. Within the genus, there are also some taxa that are determinable relatively easily in the field: *M. cognata*, *M. juliannae* var. *juliannae*, *M. strictipes* and *M. verrucipes*. In this paper, we present descriptions of morphological characters of these taxa, with emphasis on their field features, as well as their actual or supposed occurrence in Slovakia in the years 2012–2015.

Ďuriška, O., Tomšovský, M., Antonín, V. & Jančovičová, S. 2016. Určovanie niektorých druhov rodu *Melanoleuca* v teréne. *Catathelasma* 17: 25–33.

Určovanie väčšiny taxónov rodu *Melanoleuca* je veľmi komplikované, vyžadujúce zložité mikromorfologické a molekulárne analýzy. V rámci tohto rodu sú však aj taxóny, ktoré sú určiteľné relatívne ľahko priamo v teréne: *M. cognata*, *M. juliannae* var. *juliannae*, *M. strictipes* a *M. verrucipes*. V predkladanom článku uvádzame opisy morfológických znakov uvedených taxónov, s dôrazom na ich terénne znaky, a prezentujeme ich aktuálny alebo predpokladaný výskyt na Slovensku v rokoch 2012–2015.

**Key words:** Slovakia, morphology, *Melanoleuca cognata*, *M. juliannae* var. *juliannae*, *M. strictipes*, *M. verrucipes*

## Introduction

The genus *Melanoleuca* Pat. is a morphologically well-defined genus of agaricomycetous fungi, family *Tricholomataceae*. It is characterized by the spores with amyloid verrucose ornamentation and the absence of clamp connections (e.g. Vesterholt 2012). Morphological characters are, however, insufficient for identification at species level. The most *Melanoleuca* species have basidiomata coloured in indistinct and variable shades of brown and grey; micromorphological characters are often unspecific and overlapping (e.g. Moser 1978, Bon 1991, Boekhout 1999). Application of molecular methods is therefore not only helpful, but in many cases the only solution how to identify the species of the genus *Melanoleuca* (Vizzini et al. 2011, Ďuriška et al. 2013a, 2013b).

In years 2012–2015 we made a taxonomic revision of the genus *Melanoleuca* in Europe using morphological and molecular methods (Ďuriška et al. 2013a, Ďuriška et al. 2013b, Antonín et al. 2014, Antonín et al. 2015). Our studies resulted in the identification of 28 taxa of the genus *Melanoleuca* in Europe, 21 of them in Slovakia. Our field experiences also enabled us to recognise four taxa that can be identified only based on their macromorphological characters. They are *M. cognata* (Fr.) Konrad & Maubl., *M. juliannae* Rimóczi, Antonín, L. Nagy & Tomšovský var. *juliannae*, *M. strictipes* (P. Karst.) Jul. Schäff. and *M. verrucipes* (Fr.) Singer, and we present them in this paper. Each taxon is provided with note on its field identification, photo of basidiomata, as well as full description of macromorphological and micromorphological characters. The occurrence of these taxa in Slovakia in years 2012–2015 is also commented.

## Material and Methods

The studied material includes specimens collected in Slovakia, Hungary, Romania and USA. The specimens are kept in the institutional herbaria SLO, BP and BRNM. The herbarium acronyms follow Thiers (2016). Taxonomic concept and nomenclature of included *Melanoleuca* taxa follows Kirk (2016).

The macromorphological characters were observed on fresh basidiomata. The micromorphological characters were observed on dried specimens using a Leica DM 1000 and Olympus BX41 light microscopes with an oil-immersion lens at a magnification of 1000. Microscopic mounts were

prepared in water and in 5% aqueous solution of KOH. For accentuate individual structures, the Melzer reagent and Congo red were used. Statistic calculations of spores are based on 30 measurements per specimen and given as minimum, maximum (in parentheses), average  $\pm$  standard deviation and average (av.) values. Statistic calculations of other characters are based on 20 measurements per specimen and given as minimum and maximum.

Abbreviations: Q = ratio of length and width of spores, L = number of lamellae reaching the point of attachment, I = number of lamellulae between each pair of lamellae. Descriptive terminology is adopted from Vellinga (1988) and Vizzini et al. (2011).

## Results

***Melanoleuca cognata*** (Fr.) Konrad & Maubl.

(see page 75 up)

**Field identification:** *Melanoleuca cognata* is an easily determinable species by its pale orange or salmon-orange colour of lamellae. Pileus, stipe and context are usually also coloured in some shades of orange. No other European *Melanoleuca* species possess such orange colouration which is typical just for *M. cognata*.

**Description:** Pileus 50–80 mm broad, applanate, plano-convex to convex, with central umbo, with straight or slightly undulate margin, not hygrophanous, not striate, not pruinose, smooth, glabrous, pale brown-orange, darker in centre. Lamellae rather close, L = 60–65, I = 3–4, emarginate with decurrent tooth, up to 6 mm wide, pale orange or salmon-orange. Stipe 50–80  $\times$  7–12 mm, cylindrical, slightly broadened at apex or clavate, up to 17 mm broad at base, longitudinally fibrillose or striate, finely pruinose, especially at apex, beige or pale brown with orange tones, darker towards base. Context whitish with orange tones or pale orange, sometimes grey-brown under the pileipellis, without any smell or with slightly sweetish smell and mild taste.

Spores (7)7.1–9.3(10)  $\times$  (4.5)4.7–5.3(6)  $\mu\text{m}$ , av. 8.2  $\times$  5  $\mu\text{m}$ , Q = (1.27)1.39–1.83(2.0), av. Q = 1.61, broadly ellipsoid, ellipsoid or narrowly ellipsoid, ornamentation verrucose, amyloid. Basidia 4-spored, 25–32  $\times$  7–9  $\mu\text{m}$ , clavate. Cheilocystidia of the macrocystis type (despite taxonomic position of this species in the subgenus *Urticocystis*), abundant, 33–55  $\times$  10–13  $\mu\text{m}$ , non-septate, without apical crystals or

sometimes with inconspicuous crystals at apex. Pleurocystidia rare, similar to cheilocystidia. Caulocystidia of the macrocystis type, abundant, 38–62 × 8–13 µm, non-septate or with one septum, with apical crystals. Pileipellis a cutis transient to a trichoderm, composed of cylindrical, thin-walled, up to 10 µm wide hyphae.

**Occurrence in Slovakia in years 2012–2015:** As *Melanoleuca cognata* is a taxonomically relatively clear species, we did not focus our research to collect this material. Might be because of this, we collected it only at one locality in Slovakia in the years 2012–2015.

**Specimens studied:** Slovakia, Vysoké Tatry Mts., Podbanské village, Tichá dolina valley, 950 m a. s. l., in grass and other herbs, on soil with wood debris, 26 October 2012, leg. S. Jančovičová (SLO 1560). – Slovakia, Biele Karpaty Mts., Chvojnica village, 600 m a. s. l., in grass, on soil with wood debris, 14 April 2006, leg. V. Ridzoň (SLO1953).

***Melanoleuca juliannae*** Rimóczi, Antonín, L. Nagy & Tomšovský **var. juliannae**

(see page 75 down)

**Field identification:** *Melanoleuca juliannae* var. *juliannae* is typical by its blue to violet colour of context in the base of stipe. The shades of blue or violet can be recognized also on surface of stipe and sometimes also in context of pileus. These features are unique in the genus *Melanoleuca* and typical just for *M. juliannae* var. *juliannae*. As epithet “decolorans” said, the variety *M. juliannae* var. *decolorans* Antonín & Tomšovský lacks the typical blue or violet colour and its field identification is impossible.

**Description:** Pileus 20–95 mm broad, slightly convex then applanate to slightly infundibuliform with small central umbo and involute margin when young, dull, smooth, rarely slightly felty at centre, otherwise innately fibrillose, especially when old. Not striate or slightly striate in old specimens, dark greyish brown when young, then melleous to pale deer-brown with darker centre. Lamellae medium to almost close, L = 55–65, l = 2–4, narrowly to broadly adnate, 2–6(8) mm wide, off-white to pale beige or pale grey, but may have slight blue tinge when old. Stipe 20–70 × 2–7 mm, straight, cylindrical, sometimes slightly broadened at apex and/or at base, floccose-felty at apex, longitudinally fibrillose to fibrillose-squamulose, pale yellow-brown, darker towards base with ± distinct greyish blue or steel blue tinge, sometimes blue colour ascending towards stipe apex, at base with poor pallid tomentum. Context very thin and soft

in pileus, fibrillose-stuffed, then hollow in stipe, off-white when young, then becoming pale greyish beige under pileipellis and near lamellae, silky white in stipe in very young specimens, then quickly turning pale brownish grey in upper part and darker greyish brown towards base; at base, the colour becomes gradually violaceous-blue and then almost blackish-blue at very base; dark blue colour of stipitipellis often runs upwards; bluish colour of the stipe context is also distinct in exsiccates. Smell and taste indistinct.

Spores (7)8–10(12) × 5–7 μm, av. 9 × 6 μm, Q = (1.43–)1.57–1.64, ellipsoid, ellipsoid-fusoid, or subovoid, ornamentation verrucose, rarely with small ridges, amyloid. Basidia 4-spored, 32–41 × 9–13 μm, clavate. Cheilocystidia urticoid, 28–49 × 6–11 μm, of two types: the excissa type more common, the brevipes type less frequent. Pleurocystidia absent. Pileipellis an ixocutis composed of radially arranged, ± thin-walled, gelatinized, up to 9 μm wide hyphae. Caulohymenium of (a) 20–40 × 9–12 μm, clavate, cylindrical, thin-walled cells, (b) 32–46 × 8–13 μm, urticoid caulocystidia similar to cheilocystidia, and (c) 24–32 × 10–13 μm, caulobasidia, 4-spored, cylindrical to clavate; urticoid caulocystidia and caulobasidia may be rare or even absent (for original description see Antonín et al. 2014).

**Occurrence in Slovakia in years 2012–2015:** *Melanoleuca juliannae* var. *juliannae* is relatively new taxon described from Hungary in 2014, where it was found at six localities on sandy soil in *Festucetum vaginatae stipetosum*, *Junipero-Populetum albae*, and secondary *Brometum tectorum*. Typical for them are loose sandy soils poor in humus (1–2 %), with xeric surface soils rich in chalk (Antonín et al. 2014). Ecologically similar localities exist in southern part of Slovakia: Čenkovská step, Čenkovská lesostep, Marcelovské piesky and Chotínske piesky. Despite our extensive field research on these localities, we did not confirm the occurrence of *M. juliannae* var. *juliannae* in Slovakia. The presence of this taxon at our territory is probable.

**Specimens studied:** Hungary, Budapest, Rákospalota, on loose sandy soils poor in humus in *Festucetum vaginatae stipetosum*, *Junipero-Populetum albae*, and secondary *Brometum tectorum*, 29 November 2013, leg. I. Rimóczi (BP 104371 and BRNM 751957). – Hungary, Kiskunság National Park, Örkény, on loose sandy soils poor in humus in *Festucetum vaginatae stipetosum*, *Junipero-Populetum albae*, and secondary *Brometum tectorum*, 30 September 2005, leg. I. Rimóczi (BP 104372 and BRNM 751958).

***Melanoleuca strictipes*** (P. Karst.) Jul. Schäff.  
(see page 76 up)

**Field identification:** *Melanoleuca strictipes* is characterized by its white or whitish basidiomata and growth on mountain pastures, less frequently in broad-leaved forests. A rare albino form of *M. diverticulata* could be confused with *M. strictipes*, but it does not prefer mountain pastures and has different type of cystidia (urticoid cystidia).

**Description:** Pileus 60–115 mm broad, applanate, plano-convex to convex, with central distinct to indistinct umbo, with straight or slightly reflexed margin, sometimes slightly striated, not pruinose, smooth, glabrous, not hygrophanous, white to whitish, in centre darker, whitish to creamy or beige. Lamellae rather close, L = 50–70, l = 3–4, emarginated, up to 13 mm wide, white to whitish. Stipe 40–100 × 6–11 mm, cylindrical, slightly broadened at base, up to 17 mm, longitudinally fibrillose, not pruinose, whitish, sometimes creamy to beige. Context white, without any smell or with slightly earthy smell and mild taste.

Spores (7)7.4–9.5(10) × (4)4.3–5.5(6) μm, av. 8.5 × 4.9 μm, Q = (1.5)1.58–1.87( 2.0), av. Q = 1.73, ellipsoid to narrowly ellipsoid, ornamentation verrucose, amyloid. Basidia 4-spored, 19–29 × 6–9 μm, clavate, sometimes cylindrical. Cheilocystidia of the macrocystis type, abundant, 18–65 × 9–17 μm, non-septate, without apical crystals or rarely with inconspicuous crystals at apex. Pleurocystidia rare or sometimes absent, 32–58 × 8–13 μm, non-septate, without apical crystals or rarely with inconspicuous crystals at apex. Caulocystidia absent. Pileipellis a cutis transient to ixocutis, composed of cylindrical, thin-walled, up to 10 μm wide hyphae.

**Occurrence in Slovakia in years 2012–2015:** Despite our intensive field research in years 2012–2015, we found *Melanoleuca strictipes* only at one locality in Slovakia, namely in the Západné Tatry Mts. In the past, the species probably occurred more frequently, e.g. Kubička (1957, 1976) referred to numerous records from the Vysoké Tatry Mts. The decrease of abundance of *M. strictipes* can relate with a decrease of grazing in Slovak mountains during the last years.

**Specimens studied:** Slovakia, Západné Tatry Mts., Zuberec village, Sedlo pod Osobitou, 1680 m a. s. l., on soil in grass, 11 October 2014, leg. O. Ďuriška (SLO 1669). – Romania, Gilăului Mts., Someșu Rece, on soil in grass, 4 October 2014, leg. S. Jančovičová, (SLO 1661, SLO 1662, SLO 1663).

***Melanoleuca verrucipes*** (Fr.) Singer  
(see page 76 down)

**Field identification:** With the presence of dark brown to black squamules on its whitish or creamy stipe, *Melanoleuca verrucipes* is a unique and unambiguous species within the genus *Melanoleuca*.

**Description:** Pileus 35–120 mm broad, low convex to applanate, and broadly funnel-shaped, with usually prominent central umbo, margin inflexed, costate to  $\pm$  irregular especially when old, lustrous, smooth or finely concentrically rugulose (like *Russula olivacea*), glabrous, sometimes slightly tomentose or leathery at centre, white or pale cream coloured, with ochraceous or brownish centre. Lamellae moderately close, L = 60, I = 2–4, emarginate and attached with small tooth, white, later cream coloured (4A2), edge concolorous, later darker, uneven, pubescent. Stipe 50–100  $\times$  7–20 mm, cylindrical, with broadened base (up to 30 mm broad), slightly broadened at apex, white, covered with dense brown-black or black squamules. Context white, with unpleasant rancid-farinaceous smell and mild taste.

Spores (7)7.8–9.2(10)  $\times$  (4)4.4–5.3(6)  $\mu\text{m}$ , av. 8.5  $\times$  4.9  $\mu\text{m}$ , Q = (1.4)1.54–2.0(2.25), av. Q = 1.77, ellipsoid to narrowly ellipsoid, rarely broadly ellipsoid, ornamentation verrucose, amyloid. Basidia 4-spored, 25–32  $\times$  7–9  $\mu\text{m}$ , clavate. Cheilocystidia urticoid, 42–55  $\times$  5–10  $\mu\text{m}$ , with one septum, with or sometimes without apical crystals. Pleurocystidia rare or absent, similar to cheilocystidia. Caulocystidia very rare or absent, cylindrical, non-septate, with apical crystals, 40–50  $\times$  4–8  $\mu\text{m}$ . Pileipellis a cutis, composed of cylindrical, thin-walled, up to 7  $\mu\text{m}$  wide hyphae.

**Occurrence in Slovakia in years 2012–2015:** Despite our intensive field research, we did not find *Melanoleuca verrucipes* in Slovakia in years 2012–2015. On the webpage nahuby.sk (Baranovič on line), however, there are two references on its occurrence in Slovakia in that period, namely in Zvolenská kotlina and in Liptov region. *Melanoleuca verrucipes* seems to be a very rare species in Slovakia.

**Specimens studied:** Czech Republic, České Švýcarsko National Park, Doubice, close to a site called Panenská jedle, 7 June 2012, leg. V. Antonín and S. Komínková (BRNM 737663). – Czech Republic, Svitavy, vicinity of the Rosnička pond, 12 Aug. 2014, leg. J. Zedník (BRNM 761965). – Czech Republic, Kukle, forest called “Brand” (the same forest complex as previous locality), on wooden and bark remnants, 23 September 2015, leg. J. Zedník (BRNM 772089). – Czech Republic, Brno, Lužánky

park, on a mulched flower-bed, 19 May 2014, leg. F. Kučera (BRNM 761866). – USA, Connecticut, Derby, in grass on soil, 16 May 2010, leg. M. Melicharová (SLO 1677).

### Acknowledgements

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**BOOK NOTICES**

Soňa Jančovičová

Arne Aronsen & Thomas Læssøe. 2016. **The genus *Mycena* s. l.** (Fungi of Northern Europe – vol. 5.). Svampetryk, Tilst, [1]-376 p., hardcover, 105 eur, ISBN 978-87-983581-2-1.

“The genus *Mycena* s.l.” is the fifth volume in the series of “Fungi of Northern Europe”. Comparing with the previous volumes (vol. 1. the genus *Hygrocybe* 1995 and 2010, vol. 2. the genus *Lactarius* 1998, vol. 3. the genus *Hebeloma* 2005, vol. 4. the genus *Tricholoma* 2013), the *Mycena* book has three superlatives: it is the heaviest (it weighs 1097 g), the most voluminous (it has 376 pages) and includes the most species (113 northern European species of *Mycena* s.l., including *Resinomycena*, *Roridomyces*, *Atheniella* and *Phloeomana*).

As said in the authors preface, the present volume is somewhat less scientific than the preceding *Tricholoma* volume, where all accepted taxa had been sequenced. Nevertheless, two new species are introduced – *Mycena mucoroides* and *M. pasvikensis* – and some new synonyms are given. There has been no phylogenetic treatment running in parallel with the writing of this identification manual.

The book provides three identification keys: the key to  $\pm$  mycenoid genera (and species), the key to species mainly based on macroscopical characters, and the key based on microscopical characters. The keys are followed by the most extensive part – “Descriptions and illustrations of the species”. Each species is provided with the description of macroscopical and microscopical features, ecology and distribution and discussion (mostly focused on confusion with similar species). Colour photographs of high quality are catching both – field habitus of basidiomata and details on basidiomata concerning with the differentiating characters. There do not lack the drawings of microstructures. Texts are clear and understandable also because of the general and very useful introduction chapters on the genus *Mycena*, such as Generic description, Conservation, Toxicity, Parasites on *Mycena* fruitbodies and others.

The authors, Arne Aronsen (Norway) and Thomas Læssøe (Denmark), are smiling on the photograph at back cover of the book. They look like young happy boys despite the book have taken / have given them more than 30 years of experience with this fascinating group of often tiny but beautiful agarics.

**ASCOMYCETEN, EXSICCATAE COLLECTION BY H. REHM.  
2. INDEX OF TAXA ISSUED IN FASCICLES 1–11 (1–550)<sup>1</sup>**

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Lizoň, P. 2016. Ascomyceten, exsiccatae collection by H. Rehm. 2. Index of taxa issued in fascicles 1–11 (1–550). *Catathelasma* 17: 35–74.

Index of specimens and taxa published in 11 fascicles of the exsiccatae collection.

Lizoň, P. 2016. Ascomyceten, exsikátová zbierka H. Rehma. 2. Index taxónov uverejnených v zošitoch 1–11 (1–550). *Catathelasma* 17: 35–74.

Index položiek a taxónov uverejnených v prvých 11 zošitoch exsikátovej zbierky.

**Key words:** list, types, new taxa, new combinations, references to fungaria

### Labels

Labels for fasc. 1–20 (no. 1–1000) and fasc. 27 (no. 1301–1350) were handwritten. Labels for the rest of fascicles were printed. All have heading “Rehm: Ascomyceten” and description of the collection site, substrate, date and collectors name. No description of new taxa were included so new names presented on labels are not validly published there (*nomina nuda*).

### Descriptions of new taxa

Descriptions for new taxa issued in first 2 fascicles were published by Winter (1872) and repeated later by Rehm (1881). Rehm’s paper has also list and descriptions for fascicles 3–11.

### Extra numbers

Simultaneously with specimens carrying basic numbers were issued numerous extra specimens. They appeared in irregular order at later dates (together with later fascicles) and represented usually the same taxon as basic number. Comments on these extra specimens can be found at the end of published accounts of Rehm’s exsiccatae. In this index extra numbers are listed together with the basic numbers (with reference in which fascicle they were issued).

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<sup>1</sup> 1<sup>st</sup> part: Bibliography and contributors. *Catathelasma* 16: 27–40. 2015.

### Location of Rehm's Ascomyceten

An undistributed set of this exsiccatae has BPI<sup>2</sup> (**seen**, incomplete, here marked as BPI Rehm), FH, DAOM and ILL (Pfister 1985<sup>3</sup> and Stevenson 1971<sup>4</sup>). Probably incomplete set distributed in the general collection has S (**seen**), BPI, CUP, UPS, C, PC, BM, HBG (Pfister 1985), M (acquired with F. Arnolds collections), E, NY, K(M). It seems that no fungarium houses a fully complete set (from no. 1 to no. 2175).

It should be noted that numerous collections were issued simultaneously in another exsiccatae, such as North American Fungi (J. B. Ellis and B. M. Everhart) and Mycotheca universalis (F. de Thümen).

### How to read the index

Each entry is arranged in this order: consecutive number of the specimen, original name as presented on the label, collection(s) acronym with accession number<sup>5</sup> (**boldfaced** indicates the type<sup>6</sup>) + notes stored with the specimen (all in parentheses), double slash // is followed by the name published in Rehm's list. When the name on the label and in the published list is the same it is not repeated after double slash; but it is repeated (and followed by the reference) if representing a new name (**boldfaced**) or new combination (*italicized*, reference supplemented by the basionym). Available data about recent taxonomical treatments and/or lectotypifications are noted but relevant references were not specifically searched.

The names of taxa are presented here as originally written/printed on labels and published in the lists. Corrected was only the spelling of names. Names of authorities of taxa are presented as used by Rehm (even if incorrectly); only their abbreviations are unified to standard forms. For dates of issue of exsiccatae see Catathelasma 16: 29-32, 2015.

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2 acronyms of collections follow Index herbariorum, <http://sweetgum.nybg.org/science/ih>

3 A bibliographic account of exsiccatae containing fungi. Mycotaxon 23: 1-139, 1985 (corrections: Mycotaxon 25: 141-145, 1986)

4 An account of fungus exsiccati. Beih. Nova Hedwigia (36): [i]-viii, 1-563

5 Collections at BPI (US National Fungus Collections, Beltsville) and at S (Naturhistoriska riksmuseet, Stochholm) were studied on site. Specimens missing in there two fungaria were searched in on-line collection databases. Specimens that may not be issued within Ascomycetes are marked by question mark (?).

6 representing syntypes (not isotypes as sometimes incorrectly cited) or lectotypes (if validly designated)

### Publications (fasc. 1–11)

- Winter, G. 1872. Diagnosen und Notitzen zu Rehm's Ascomyceten. *Flora* 55: 508–511, 523–527, 542–544.<sup>7</sup> Lists and descriptions of taxa issued in fasc. 1–2.
- Cooke, M. C. & Ellis, J. B. 1877. New Jersey fungi. *Grevillea* 6: 1–18.<sup>8</sup> Description of *Asterina cupressina* Cooke (no. 394).
- Cooke, M. C. 1875. Synopsis of the discomycetous fungi of the United States (Part II). *Bull. Buffalo Soc. Nat. Sci.* 3: 21–37.<sup>9</sup> Description of *Dermatea tabacina* Cooke (no. 359), *Colpoma juniperinum* Cooke & Peck (no. 270).
- Arnold, F. 1877. Lichenologische fragmente. *Flora* 60: 298–302.<sup>10</sup> Description of *Xeosphaeria apocalypta* Rehm (no. 346).
- Saccardo, P. A. 1878. Enumeratio pyrenomycetum Hypocreaceorum hucusque cognitorum systemate carpologico dispositorum. *Michelia* 1: 277–325.<sup>11</sup> Description of *Nectria thujana* Rehm (no. 338), *Hypocrea tuberculariformis* Rehm (no. 435) and *Nectria magnusiana* Rehm (no. 436).
- Winter, G. 1880. Mykologisches aus Graubünden. *Hedwigia* 19: 159–167. Description of *Leptosphaeria juncicola* Rehm (no. 533).
- Rehm, H. 1881. Ascomyceten. Fasc. I – XI. *Ber. Naturhist. Ver. Augsburg* 26: 1–132.<sup>12</sup> Lists, repeated descriptions from papers by other authors and original descriptions of taxa issued in fasc. 1–11.

### Index of specimens issued in fascicles 1–11

1. *Ascobolus furfuraceus* Pers. (S F179755; UPS F-663110) //
- 1b. *Ascobolus furfuraceus* Pers. [fasc. 12] (S F1797260) //
2. *Leucoloma carnea* (Pers.) (S F13137; UPS F-663111) // *Ascophanus carneus* (Pers.) Boud.
3. *Crouania asperior* Nyl. (BPI Rehm; S F189643; UPS F-663112) // *Leucoloma asperior* (Nyl.) Rehm (*Ber.* 26: 5, *Peziza* a.)
4. *Crouania humosa* (Fr.) Fuckel (BPI Rehm; S F189527; S F189528; UPS F-663117) // *Leucoloma constellatio* (Berk. & Broome) Rehm (*Ber.* 26: 5, *Peziza* c.)
5. *Humaria hemisphaerica* (F. H. Wigg.) (S F178280; UPS F-663118) //

7 cited in the index as „Flora 55“

8 cited in the index as „Grev.“

9 cited in the index as „Buffalo“

10 cited in the index as „Flora 60“

11 cited in the indech as „Mich.“

12 cited in the index as „Ber.“

- 5b. *Lachnea hemisphaerica* (F. H. Wigg.) Gill. [fasc. 32] (BPI 572895; S F178296) //
6. *Humaria gregaria* Rehm (**BPI Rehm; S F6075; S F154580; S F154632; UPS F-663119; E E00456267**) // ***Humaria gregaria*** Rehm ex G. Winter (Flora 55: 508)
- 6b. *Lachnea gregaria* Rehm [fasc. 26] (BPI 573056; S F190971; S F190976; UPS F-663120; UPS F-672201) //
7. *Peziza luteo-pallens* Nyl. (BPI Rehm; S F203858; UPS F-663121) // *Pyronema luteo-pallens* (Nyl.) Rehm (Ber. 26: 6, *Peziza* l.)
8. *Pustularia cupularis* (L.) Fuckel (S F190827; UPS F-663122) //
- 8b. *Pustularia cupularis* (L.) Fuckel [fasc. 21] (S F110948; S F190765; UPS F-663124; UPS F-671681) //
9. *Helotium virgultorum* f. *fructigenum* (Bull.) Rehm (UPS F-663125) // *Helotium virgultorum* f. *fructigenum* (Bull.) Rehm (Ber. 26: 7, *Peziza* f.)
10. *Helotium virgultorum* f. *conigenum* Rehm (UPS F-663126) //
11. *Helotium epiphyllum* (Pers.) Fr. (BPI Rehm; UPS F-663127) //
12. *Helotium herbarum* (Pers.) Fr. (BPI Rehm; S F156470; UPS F-663129) //
- 12b. *Helotium herbarum* var. *urticae* [fasc. 32] (BPI 655110; S F156283; S F156284) // *Helotium herbarum* (Pers.) Fr.
13. *Ciboria firma* (Pers.) Fuckel (UPS F-663130) //
14. *Dasyscypha virginea* (Batsch) Fuckel (UPS F-663131) //
- 15a. *Pyrenopeziza lojkae* Rehm (**S F10418; UPS F-663133**) // *Heterosphaeria lojkae* (Rehm [ex G. Winter]) J. Schröt. [***Pyrenopeziza lojkae*** Rehm ex G. Winter (Flora 55: 509)]
- 15b. *Leptosphaeria nitschkei* Rehm (**BPI Rehm; S F6907; S F6918**) // ***Leptosphaeria nitschkei*** Rehm ex G. Winter (Flora 55: 510)
- 15bis. ?<sup>13</sup> [fasc. 11] // *Heterosphaeria lojkae* Rehm
- 15c. ?<sup>14</sup> [fasc. 13] // *Heterosphaeria patella* f. *lojkae* Rehm
16. *Lachnella barbata* (Kuntze) Fr. (UPS F-663135; UPS F-672212) //
17. *Calloria vinosa* Alb. & Schwein. (UPS F-663136; UPS F-663136) //
18. *Durella aeruginascens* Rehm (**S F11672; UPS F-663137**) // *Durella connivens* (Fr.) Rehm (Ber. 26: 9, *Peziza* c.) [***Durella aeruginascens*** Rehm ex G. Winter (Flora 55: 510)]
19. *Melaspilea peltigerae* Nyl. (BPI Rehm; UPS F-663138) //

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13 the specimen not located

14 the specimen not located

- Pseudopeziza peltigerae Fuckel
20. Scutula epigena (Nyl.) (UPS F-663139) // *Scutula epigena* (Nyl.) Rehm (Ber. 26: 9, Lecidea e.)
  21. Karschia nigricans Rehm (S F43934; UPS F-663140; E E00456270; ? BPI 374167) // *Karschia strickeri* Körb.
  22. Stictis ollaris Wallr. (BPI Rehm; UPS F-663141) // *Schmitzomia papula* (Fr.) Fr.
  23. Stictis carestiae De Not. (BPI Rehm; UPS F-663142) // *Schmitzomia radiata* var. *carestiae* (De Not.) Rehm (Ber. 26: 10, Stictis c.)
  24. Hysterium pinicolum Rebent. (BPI Rehm; S F977; UPS F-663143) // *Pseudographis pinicola* (Rebent.) Rehm (Ber. 26: 10, Peziza p.)
  25. Hysterium elatinum Pers. (UPS F-663144) // *Pseudographis elatina* (Ach.) Nyl.
  26. Hysterographium fraxini (Pers.) De Not. (UPS F-663146) //
  27. Colpoma quercinum Wallr. (UPS F-663147) //
  28. Baggea pachyascus Auersw. (BPI Rehm; UPS F-663148) //
  29. Leciographa pulvinata Rehm (S F256653; UPS F-663149) // *Leciographa pulvinata* (Rehm) Arnold
  30. Ostropa cinerea (Pers.) Fr. (BPI Rehm; UPS F-663150) //
  - 30b. Ostropa cinerea [fasc. 51] (UPS F-671682) //
  31. Ostropa cubicularis Fuckel (BPI Rehm; S F277500; UPS F-663151) // *Robergea unica* Desm.
  32. Sphaerella hageniae Rehm (**BPI Rehm; S F79552; UPS F-663152**) // **Pharcidia hageniae** Rehm ex G. Winter (Flora 55: 523)
  33. Pharcidia congesta Körb. (S F78913; UPS F-663153) //
  34. Sporormia minima Auersw. (?BPI 622843; UPS F-663154) //
  35. Leptosphaeria agnita (Desm.) De Not. & Ces. (BPI Rehm; UPS F-663155) //
  - 35b. Leptosphaeria ogilviensis (Berk. & Broome) Ces. & De Not. [fasc. 52] (BPI 621385) //
  36. Melanomma pomiforme (Pers.) Fuckel (BPI Rehm; UPS F-663156; UPS F-672235) // *Melanopsamma pomiformis* (Pers.) Nitschke
  37. Nectriella robergei (Desm.) (BPI Rehm; S F280038; UPS F-672120; UPS F-663157; UPS F-672236) // *Nectria lichenicola* (Ces.) Sacc.
  38. Nectria lecanodes Ces. (BPI Rehm; S F279991; UPS F-672237;

- UPS F-663158) //
39. *Nectria lamyi* De Not. (UPS F-663159) // *Pleonectria lamyi* (Desm.) Sacc.
- 39b. *Nectria lamyi* De Not. [fasc. 6] (UPS F-663160) // *Pleonectria lamyi* (Desm.) Sacc.
40. *Nectria pyrrochlora* Auersw. (S F279646; UPS F-663161) // *Thyronectria pyrrochlora* (Auersw.) Sacc.
41. *Amphisphaeria xylostei* (Pers.) De Not. (UPS F-663162) // *Anthostoma xylostei* (Pers.) Sacc.
- 41b. *Amphisphaeria xylostei* (Pers.) De Not. [fasc. 43] (BPI 583482; UPS F-672242; UPS F-671683) // *Anthostoma xylostei* (Pers.) Sacc.
42. *Teichospora obducens* (Fr.) Fuckel (UPS F-663163) //
43. *Bertia querceti* Rehm (BPI Rehm; S F11598; UPS F-663164) // *Enchnosphaeria pinetorum* Fuckel [*Bertia querceti* Rehm ex G. Winter (Flora 55: 524)]
44. *Diaporthe fibrosa* Nitschke (BPI Rehm; UPS F-663165) //
- 44b. *Diaporthe fibrosa* [fasc. 20] (UPS F-671684) // *Diaporthe fibrosa* (Pers.) Fuckel
45. *Aglaospora profusa* (Fr.) De Not. (UPS F-663166) //
- 45b. *Pseudovalsa profusa* (De Not.) G. Winter [fasc. 52] (BPI 622698) //
46. *Cryptospora suffusa* (Fr.) Tul. (BPI Rehm; UPS F-663167) //
- 46b.<sup>15</sup> *Cryptospora suffusa* f. *octospora* (UPS F-663168)
- 46c. *Cryptospora suffusa* f. *octospora* [fasc. 9] (UPS F-663169) // *Cryptospora suffusa* (Fr.) Tul.
47. *Valsa eunomia* (Fr.) Nitschke (UPS F-663170) // *Cryptospora eunomia* (Fr.) Fuckel
- 48a. *Valsa ambiens* (Pers.) Fr. (UPS F-663171) //
- 48b. *Valsa ambiens* f. *octospora* [fasc. ?<sup>16</sup>] (UPS F-663172)
49. *Quaternaria dissepta* (Fr.) Sacc. (UPS F-663173) //
50. *Raphidospora carduorum* Tul. (UPS F-663174) // *Ophiobolus acuminatus* Sacc.
51. *Helvella lacunosa* Afzel. (S F125098; UPS F-663175) //
52. *Ascobolus cookei* Crouan (BPI Rehm; S F190875; UPS F-663176) // *Ryparobius crustaceus* (Fuckel) Rehm (Ber. 26: 17, *Ascobolus* c.)

15 reference to the number appeared only with no. 46c but in the list for fascicle 1 has only no. 46

16 not located in published lists



- 52b. *Ryparobius crustaceus* (Fuckel) Rehm [fasc. 28] (BPI 663808; S F190860; S F190861; UPS F-663177; UPS F-672257) //
53. *Peziza tarzetta* Cooke (BPI Rehm; S F189137; UPS F-663178) // *Pustularia tarzetta* (Cooke) Rehm (Ber. 26: 17, *Peziza* t.)
54. *Leucoloma ascoboloides* Rehm (**S F10474**; **S F155159**; **UPS F-663179**; **E E00429572**) // *Leucoloma piliferum* (Cooke) Rehm (Ber. 26: 18, *Peziza* p.) [**Leucoloma ascoboloides** Rehm ex G. Winter (Flora 55: 525)]
55. *Pithya chrysophthalma* (Pers.) Rehm (BPI Rehm; NY 01681019; UPS F-663180) // *Dasyscypha resinaria* (Cooke & W. Phillips) Rehm (Ber. 26: 18, *Peziza* r.)
56. *Helotium virgultorum* var. *scutula* (UPS F-663181) // *Helotium virgultorum* (Vahl) Fr.
57. *Helotium amenti* (Batsch) Fuckel (UPS F-663182) //
- 57b. *Phialea amenthi* (Batch) Quél. [fasc. 41] (BPI Rehm; BPI 655659; BPI 655666) //
58. *Peziza convivalis* Fr. (BPI Rehm; UPS F-663183) // *Helotium dolosellum* P. Karst.
- 58b. *Mollisia minutella* Sacc. (?BPI 658268; ?BPI 658269) [fasc. 49] //
59. *Peziza urticae* Pers. (UPS F-663184) // *Helotium urticae* (Pers.) P. Karst.
60. *Peziza humuli* Lasch (BPI Rehm; UPS F-663185) // *Helotium humuli* (Lasch) De Not.
61. *Peziza clandestina* Bull. (BPI Rehm; S F154721; UPS F-663186) // *Dasyscypha clandestina* (Bull.) Fuckel
62. *Dasyscypha* (*Peziza*) *calycina* (Schaer.) (UPS F-663187) // *Dasyscypha willkommii* (Hartig) Rehm (Ber. 26: 19, *Peziza* w.)
- 62b. *Dasyscypha willkommii* Hartig [fasc. 25] (BPI 662247; UPS F-663188; UPS F-672267) //
63. *Pezizella avellanae* Lasch (BPI Rehm; S F184662; UPS F-663190) // *Helotium albellum* (With.) P. Karst.
64. *Peziza hungarica* Rehm (**BPI Rehm**; **S F9719**; **UPS F-663191**; **NY 01168140**) // ***Pezizella hungarica*** Rehm ex G. Winter (Flora 55: 526)
- 65a. *Trichopeziza leucophaea* (Pers.) Rehm (S F183497; UPS F-663192) // *Trichopeziza leucophaea* (Pers.) Rehm (Ber. 26: 20, *Peziza* l.)<sup>17</sup>

17 listed as "65. *Trichopeziza leucophaea*" by Rehm (Ber. 26: 20) and as "65.a et b. *Trichopeziza leucophaea* form. minor" by Winter (Flora 55: 526)

- 65b. *Trichopeziza leucophaea* (Pers.) f. *minor* (BPI Rehm; S F183428; UPS F-663189) // *Trichopeziza leucophaea* (Pers.) Rehm
66. *Pyrenopeziza* (*Peziza*) *artemisiae* (Lasch) (UPS F-663193) // *Niptera cinerea* f. *artemisiae* (Lasch) Rehm (Ber. 26: 20, *Peziza* a.)
67. *Pyrenopeziza vitis* Rehm (**BPI Rehm; S F7612; UPS F-663194**) // **Pyrenopeziza vitis** Rehm ex G. Winter (Flora 55: 526)
68. *Pyrenopeziza carduorum* Rehm (**S F7722; ?S F7725; UPS F-663195; E E00456117**) // **Pyrenopeziza carduorum** Rehm ex G. Winter (Flora 55: 526)
69. *Pyrenopeziza fuscorubra* Rehm (**BPI 717601; S F7698; UPS F-663196; E E00456113**) // *Niptera fuscorubra* (Rehm) Rehm (Ber. 26: 21, *Pyrenopeziza* f.) [**Pyrenopeziza fuscorubra** Rehm ex G. Winter (Flora 55: 526)]
- 69b. *Pyrenopeziza artemisiae* (Lasch) Rehm [fasc. 49] (BPI 658416; BPI 658470) //
70. *Niptera polygona* Rehm (**S F270940; UPS F-663197**) // **Niptera polygona** Rehm ex G. Winter (Flora 55: 543)
- 70b. *Niptera polygona* Rehm [fasc. 4] (BPI Rehm; UPS F-663198) //
- 70c. *Niptera polygona* (Cooke) Rehm [fasc. 10] (UPS F-663199) //
71. *Calloria coccinella* f. *vinosella* Nyl. (BPI Rehm; UPS F-663200) // *Calloria coccinella* (Sommerf.) Rehm (Ber. 26: 21, *Peziza* c.)
- 71b. ?<sup>18</sup> [fasc. 14] // *Calloria coccinella* (Sommerf.) Rehm
72. *Calloria fusarioides* Tul. (UPS F-663201) //
73. *Durella macrospora* Fuckel (BPI Rehm; S F198279; S F198288; UPS F-663202; UPS F-672121; UPS F-672276) // *Durella compressa* (Pers.) Fr.
74. *Bulgaria inquinans* f. *tetraspora* (UPS F-663203) // *Bulgaria inquinans* (Pers.) Fr.
75. *Hysterium prostii* Duby (BPI Rehm; UPS F-663204) //
76. *Propolis versicolor* (Fr.) Fuckel (UPS F-663206; UPS F-672122; UPS F-672123; UPS F-672280) // *Propolis faginea* (Schrad.) P. Karst.
77. *Uncinula bicornis* Lév. (BPI Rehm; UPS F-663207) // *Uncinula bicornis* (Link) Lév.
78. *Hypoxylon udum* (Pers.) Fr. (BPI 739021; UPS F-663208; UPS F-672282; UPS F-672900) //

- 78b. *Nectria indigens* Arnold [fasc. ?<sup>19</sup>] (BPI Rehm)  
 79. *Valsa ampelina* Nitschke (BPI 797195; UPS F-663209) //  
 80. *Diaporthe vepris* (Lacroix) Nitschke (**UPS F-663210**) // **Diaporthe vepris f. appendiculata** Rehm (Ber. 26: 23)  
 81. *Valsa rhodophila* Berk. & Broome (BPI Rehm; UPS F-663211) // *Valsa rhodophila* f. *rosaecola* Fuckel  
 82. *Valsa salicina* f. *tetraspora* (Curr.) (UPS F-663212) // *Valsa salicina* f. *tetraspora* (Curr.) *salicum*  
 82b. *Valsa salicina* f. *octospora* Rehm [fasc. 51] (BPI 575197) //  
 83. *Valsa salicina* f. *tetraspora* (UPS F-663213) // *Valsa salicina* f. *tetraspora* (Curr.) *aceris*  
 84. *Cryptospora suffusa* f. *polyspora* Tul. (BPI Rehm; UPS F-663214) // *Ditopella fusispora* De Not.  
 84b. ?<sup>20</sup> [fasc. 20] // *Ditopella fusispora* De Not.  
 85. *Nectria indigens* (Arnold) Rehm (S F84838; UPS F-663216) // *Nectria indigens* (Arnold) Rehm (Ber. 26: 24, *Secoliga* i.)  
 86. *Gibbera winteri* Rehm (**BPI Rehm; S F9946; UPS F-663217; E E00433514**) // ***Gibbera winteri*** Rehm ex G. Winter (Flora 55: 543)  
 87. *Trematosphaeria morthieri* Fuckel (BPI Rehm; UPS F-663218) //  
 88. *Lophiostoma caulium* De Not. (UPS F-663219) // *Lophiostoma insidiosum* (Desm.) Ces. & De Not.  
 88b. ?<sup>21</sup> [fasc. 13] // *Lophiostoma insidiosum* (Desm.) Ces. & De Not.  
 88c. ?<sup>22</sup> [fasc. 13] // *Lophiostoma insidiosum* (Desm.) Ces. & De Not.  
 88d. *Lophiostoma insidiosum* f. *artemisiae* Rehm [fasc. 15] (**BPI Rehm; S F75507; S F75508**) // ***Lophiostoma insidiosum* f. artemisiae** Rehm (Hedw. 23: 77, 1884)  
 89. *Rosellinia rimiricola* Rehm (**BPI Rehm; S F7353; UPS F-663221; E E00429514**) // ***Rosellinia rimiricola*** Rehm ex G. Winter (Flora 55: 543)  
 90. *Enchosphaeria pinetorum* Fuckel (BPI Rehm; UPS F-663222) //  
 91a. *Leptosphaeria modesta* (Desm.) Auersw. (BPI Rehm; UPS F-663223) //  
 91b. *Leptosphaeria modesta* (Desm.) Auersw. (BPI Rehm; UPS F-663224) //

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19 not located in published lists

20 the specimen not located

21 the specimen not located

22 the specimen not located

- 91c. *Leptosphaeria modesta* (Desm.) Auersw. [fasc. 3] (BPI Rehm; UPS F-663225) //
- 91d. *Leptosphaeria modesta* (Desm.) Auersw. [fasc. 7] (UPS F-663226) //
- 91e. *Leptosphaeria modesta* (Desm.) Auersw. [fasc. 7<sup>23</sup>] (BPI Rehm; BPI 621237) //
- 91f. *Leptosphaeria modesta* f. *saxifragae* Rehm [fasc. 7] (BPI Rehm; UPS F-663229) // *Leptosphaeria modesta* (Desm.) Auersw.
- 91g. ?<sup>24</sup> [fasc. 13] // *Leptosphaeria modesta* f. *gentianae* Rehm
92. *Leptosphaeria rubicunda* Rehm (**BPI Rehm; S F29400; S F70958; UPS F-663247**) // ***Leptosphaeria rubicunda*** Rehm ex G. Winter (Flora 55: 543)
- 93a, b. *Pleospora doliolum* (UPS F-663230; UPS F-663232; UPS F-672301; UPS F-672124) // *Leptosphaeria doliolum* (Pers.) Ces. & De Not.
- 93b. *Pleospora doliolum* (Pers.) Tul. [fasc. 32] (BPI Rehm; BPI 718094) // *Leptosphaeria doliolum* (Pers.) Ces. & De Not.
94. *Raphidospora rubella* (Pers.) Fuckel (UPS F-663233) // *Ophiobolus rubellus* (Pers.) Rehm (Ber. 26: 26, *Sphaeria* r.)
95. *Gnomonia vulgaris* De Not. (UPS F-672303; UPS F-663235) //
96. *Gnomonia tubaeformis* (Tode) Auersw. (UPS F-663236) //
97. *Sphaeria genistae* Fuckel (BPI Rehm; UPS F-663237) // *Didymella genistae* (Fuckel) Rehm (Ber. 26: 26, *Sphaeria* g.)
98. *Sphaeria spurca* Wallr. (BPI Rehm; S F66818; UPS F-663239; E E00456145<sup>25</sup>) // *Sphaerulina intermixta* (Berk. & Broome) Sacc.
99. *Sphaeria bryoniae* f. *astragalina* Rehm (**BPI Rehm; S F263361; UPS F-663240**) // ***Didymella bryoniae* f. *astragalina*** Rehm (Ber. 26: 27)
100. *Sphaerella tussilaginis* Rehm (**BPI Rehm; S F9831; E E00456158; UPS F-663241**) // ***Sphaerella tussilaginis*** Rehm ex G. Winter (Flora 55: 544)
101. *Leotia lubrica* f. *minor* Rehm (BPI Rehm; UPS F-663248) // *Leotia lubrica* (Scop.) Fr.
- 102a. *Ascobolus immersus* Pers. (S F179801; UPS F-672310; UPS F-663249) //

23 referred to "Rehm Ascomyc. 91a-d." without data on collecting site; UPS has a specimen (F-663228) labeled as 91e. *Leptosphaeria modesta* f. *aconiti* Rehm included in the list for fasc. 48 as *Leptosphaeria modesta* (Desm.) Rabenh.

24 the specimen lot located

25 *Schedula rectificata: Stigmatea seriata* G. Winter (Flora 55: 544, 1872)

- 102b. *Ascobolus immersus* Pers. (S F179802; UPS F-663250) //
- 103a. *Ascophanus pilosus* f. *equinus* Boud. [fasc. 30] (BPI Rehm; S F109869; UPS F-663251) // *Lasiobolus equinus* (Müll.) P. Karst.
- 103b. *Ascophanus equinus* (Müll.) P. Karst. (S F109765; S F109766; S F110641; UPS F-663253; UPS F-663254) // *Ascophanus pilosus* f. *vaccinus* Boud.
104. *Ascobolus granuliformis* Crouan (BPI Rehm; S F182408; UPS F-663255) // *Ascophanus granuliformis* (Crouan) Boud.
- 104b. *Ascophanus granuliformis* (Crouan) Boud. [fasc. 30] (UPS F-663256) //
105. *Ascobolus dubius* Boud. (BPI Rehm; UPS F-663257) // *Ryparobius dubius* Boud.
106. *Ciboria pseudotuberosa* Rehm (**S F11307; UPS F-638289**<sup>26</sup>; **UPS F-638289**) // ***Ciboria pseudotuberosa*** Rehm (Ber. 26: 28)
- 106b. *Ciboria pseudotuberosa* Rehm [fasc. 13] (BPI 653260) //
107. *Sclerotinia ciborioides* (Fr.) (UPS F-663258) // *Sclerotinia ciborioides* (Fr.) Rehm (Ber. 26: 29, Peziza c.)
- 107b. *Sclerotinia trifoliorum* Erikss. [fasc. 38] (BPI Rehm) //
- 107c. *Sclerotinia trifoliorum* Erikss. [fasc. 38] (BPI Rehm; BPI 653262; BPI 653239) //
108. *Pithya chrysophthalma* f. *major* Rehm (BPI Rehm; UPS F-663259) // *Dasyscypha chrysophthalma* (Pers.) Rehm (Ber. 26: 29, Peziza c.)
- 108b. *Pithya chrysophthalma* (Pers.) Rehm [fasc. 16] (S F153491; FH 00434728; NY 0168) //
- 108c. *Lachnellula chrysophthalma* (Pers.) P. Karst. [fasc. 31]<sup>27</sup> (BPI 658837; S F15349) //
109. *Helotium rhododendri* Rehm (**BPI Rehm; S F11989; E E00433431; NY 01179510; UPS F-663260**) // ***Dermatea rhododendri*** Rehm (Ber. 26: 29)
110. *Dasyscypha bicolor* var. *rhododendri* Rehm (**S F6142; UPS F-663261; E E00433608**) // ***Dasyscypha bicolor* var. *rhododendri*** Rehm (Ber. 26: 30)
111. *Dasyscypha latebricola* Rehm (**BPI Rehm; S F6263; UPS F-663262; NY 01721749; E E00433605**) // ***Dasyscypha calyculiformis* var. *latebricola*** Rehm (Ber. 26: 30)

26 note by Olariaga: The material was distributed in 1870 without description. When validly published in 1881 with a description, a legitimate name that should have been adopted is cited as synonym, *Sclerotinia batschiana*. Therefore, *Ciboria pseudotuberosa* could be interpreted as a superfluous name

27 listed also in the list for fasc. 45

- 111b. *Dasyscypha calyculiformis* Schumach. [fasc. 11]<sup>28</sup> (BPI Rehm; UPS F-663263) // *Dasyscypha calyculaeformis* var. *latebricola* Rehm
112. *Dasyscypha fuscanguinea* Rehm (**BPI Rehm; S F6122; E00433606; UPS F-663264**) // ***Dasyscypha fuscanguinea*** Rehm (Ber. 26: 30)
- 112b. *Dasyscypha fuscanguinea* Rehm [fasc. 12] (NY 01721664; E00433607) //
- 112c. *Dasyscypha fuscanguinea* var. *aurantiaca* Höhn. [fasc. 34]<sup>29</sup> (BPI Rehm; BPI 661600; S F63316; S F63319; UPS F-695218) // *Dasyscypha fuscanguinea* var. *aurantiaca* Höhn. ex Rehm (Ann.<sup>30</sup> 3: 230, 1905)
113. *Dasyscypha kneiffii* Rehm (S F6139; S F6369; UPS F-663265; K(M) 157912) // *Dasyscypha winteri* (Cooke) Rehm (Ber. 26: 30, *Peziza* w.)
114. *Peziza littorea* Fr. (BPI Rehm; S F160912; UPS F-663266) // *Dasyscypha controversa* (Cooke) Rehm (Ber. 26: 31, *Peziza* c.)
115. *Micropeziza graminis* (Desm.) (BPI Rehm; UPS F-663267) // *Pirottaea graminis* (Desm.) Rehm (Ber. 26: 31, *Peziza* g.)
116. *Pezizella tyrolensis* Rehm (**BPI Rehm; S F6362<sup>31</sup>; E E00456191; NY 01179635; UPS F-663268**) // ***Pezizella tyrolensis*** Rehm (Ber. 26: 31)
- 116b. *Pezizella tyrolensis* Rehm [fasc. 37] (BPI 655982) //
117. *Pyrenopeziza rugulosa* Fuckel (BPI Rehm; UPS F-663269) //
118. *Calloria fusarioides* var. *alpigena* Rehm (**BPI Rehm; S F63884; UPS F-663270**) // ***Habrostictis diaphana* var. *alpigena*** Rehm (Ber. 26: 32)
- 118b. *Naevia diaphana* Rehm [fasc. 28] (BPI 667935; S F84179; S F183857; UPS F-663271; UPS F-672326) //
119. *Lachnella berberidis* (Pers.) Fuckel (BPI Rehm; S F259981; UPS F-663272) //
120. *Blitridium arnoldii* Rehm (**S F6022<sup>32</sup>; E E00012592; NY 01169247; UPS F-663273; UPS F-672131; UPS F-672132**) // ***Pseudographis arnoldii*** Rehm (Ber. 26: 32)

28 no. 111b is included as *Dasyscypha calyculiformis* (Schumach.) also in the list for the fascicle 12  
29 presented also in the list for fasc. 50

30 Ann. Mycol. (Annales mycologici) cited in the index as „Ann.“

31 marked by Chlebická (2009) as lectotype

32 marked as lectotype

121. *Stictis foveolaris* Rehm (BPI Rehm; **S F11728**<sup>33</sup>; E E 00433621; UPS F-632596) // **Stictis foveolaris** Rehm (Ber. 26: 33)
122. *Schmitzomia radiata* Fr. (BPI Rehm; UPS F-663274) //
123. *Xylographa spilomatica* (Anzi) Th. Fries (UPS L-663275) //
- 123b. *Xylographa minutula* [fasc. ?<sup>34</sup>] (UPS L-663276)
124. *Xylographa parallela* (Ach.) Fr. (UPS L-663277) //
125. *Hysterium acuminatum* Fr. (**S F65860**; **UPS F-663278**) // **Hysterium acuminatum f. alpinum** Rehm (Ber. 26: 34)
126. *Hysterium rhododenri* Ces. (BPI Rehm; S F72674; UPS F-663284) // *Lophodermium rhododendri* Ces.
127. *Lophodermium pinastri* (Schrad.) Chevall. (UPS F-663285) //
128. *Lophodermium juniperinum* (Fr.) (BPI Rehm; UPS F-663286) //
- 128b. *Lophodermium juniperinum* (Fr.) DC. [fasc. 33] (BPI 651634) //
129. *Mytilidion gemmiferum* Fuckel (UPS F-663287) //
130. *Exoascus pruni* (Tul.) Fuckel (BPI Rehm; UPS F-663288) //
131. *Ascospora himantia* (Fr.) Rehm (BPI Rehm; UPS F-663289) // *Ascospora himantia* (Fr.) Rehm (Ber. 26: 35, Asteroma h.)
- 131b. *Mycosphaerella himantia* (Pers.) Died. [fasc. 49] (BPI 608436; UPS F-671685) //
132. *Lasiobotrys lonicerae* J. Kunze (BPI Rehm; BPI 566337; UPS F-663290) //
133. *Sphaerella arenosa* Rehm (BPI Rehm; S F45258; UPS F-663291) //
134. *Sporormia intermedia* Auersw. (BPI 622119; UPS F-663292) //
135. *Amphisphaeria betulina* f. *pinicola* Rehm (**S F13557**; **UPS F-663293**) // **Amphisphaeria pinicola** Rehm (Ber. 26: 36)
136. *Sordaria setosa* G. Winter (BPI Rehm; S F8278<sup>35</sup>; UPS F-663294) //
137. *Sordaria fimicola* (Roberge) Ces. & De Not. (UPS F-663295) //
- 137b. *Sordaria fimicola* (Roberge) Ces. & De Not. [fasc. 47] (BPI 580860) //
138. *Sordaria apendiculata* Auersw. (BPI Rehm; UPS F-663296) // *Sordaria curvula* de Bary
139. *Plagiostoma devexa* f. *petiolicola* Fuckel (BPI Rehm; S F277671; UPS F-663297) // *Gnomonia devexa* f. *petiolicola* Fuckel

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33 lectotype: Baloch, Gilenstam & Wedin, Fung. Div. 38: 60, 2009

34 not located in published lists

35 marked by Lundqvist (1970) as lectotype

140. *Rhaphidospora fruticum* (Roberge) Fuckel (BPI Rehm; UPS F-663298) // *Ophiobolus fruticum* (Roberge) Rehm (Ber. 26: 37)
141. *Gnomonia epilobii* Auersw. (BPI Rehm; UPS F-663299; ?UPS F-672127; ?UPS F-672351) //
- 141b. *Didymella fenestrans* (Duby) Sacc. [fasc. 19<sup>36</sup>] (BPI 617840; S F109240; S F109233; UPS F-663300) // *Gnomonia epilobii* Auersw.
142. *Leptosphaeria typharum* (Desm.) Auersw. (UPS F-663301) //
143. *Leptosphaeria culmicola* (Fr.) Auersw. (BPI Rehm; UPS F-663302; UPS F-672353) // *Leptosphaeria culmicola* f. *minor* Sacc.
144. *Leptosphaeria agnita* (Desm.) De Not. (BPI Rehm; UPS F-663303) //
- 144b. *Leptosphaeria agnita* (Desm.) De Not. [fasc. 27] (BPI 620336; UPS F-663304) // *Leptosphaeria agnita* var. *ambigua* Berl.
- 144c. *Leptosphaeria ogilviensis* (Berk. & Broome) Ces. & De Not. [fasc. 32] (BPI 621384) //
- 144d. *Leptosphaeria ogilviensis* (Berk. & Broome) Ces. & De Not. [fasc. 37] (BPI 621380) //
145. *Pleospora herbarum* f. *foliicola* Rehm (**BPI Rehm; UPS F-663305**) // ***Pleospora herbarum* f. *foliicola*** Rehm (Ber. 26: 38)
146. *Cucurbitaria laburni* (Tul.) De Not. (BPI Rehm; UPS F-663306) //
- 146b. *Cucurbitaria laburni* f. *cytisi sessilifolii* [fasc. 21] (UPS F-663307; UPS F-672358) //
147. *Cucurbitaria pithyophila* f. *cembrae* Rehm (S F11788; UPS F-663308) // *Cucurbitaria pithyophila* (Fr.) De Not.
148. *Melanconis alni* Tul. (BPI Rehm; UPS F-663309) //
- 148b. *Melanconis alniella* Rehm [fasc. 6] (BPI Rehm; UPS F-663310) // *Melanconis alni* Tul.
- 148c. *Melanconis alni* Tul. [fasc. 22] (UPS F-663311) //
- 148d. *Melanconis alni* Tul. [fasc. 52] (BPI Rehm; BPI 614879) //
149. *Diaporthe quercina* f. *quercina* Nitschke (BPI Rehm; UPS F-663312) // *Diaporthe carpini* f. *quercina* (Nitschke) Rehm (Ber. 26: 39, *Diaporthe* q.)
150. *Xylaria carpophila* (Pers.) Fr. (S F271427; UPS F-663313) //
151. *Geoglossum viride* Pers. (BPI Rehm; UPS F-663315) //
- 151b. ?<sup>37</sup> [fasc. 54] // *Geoglossum viride* (Fr.) Gill.
152. *Helotium immutabile* Fuckel (BPI Rehm; UPS F-663316) //

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36 presented also in the list for fasc. 27

37 specimen not located



153. *Tapesia fusca* (Pers.) Fuckel (UPS F-663317) //
- 153b. *Tapesia fusca* (Pers.) Fuckel [fasc. 10] (S F109432; UPS F-663321) //
154. *Tapesia rosae* (Pers.) Fuckel (UPS F-663318) //
155. *Tapesia maculans* Rehm (**BPI Rehm; S F8991; E E00456147; UPS F-663319**) // **Niptera maculans** Rehm (Ber. 26: 40)
156. *Peziza schweinitzii* Auersw. (BPI Rehm; S F155131; UPS F-663320) // *Dasyscypha patens* (Fr.) Rehm (Ber. 26: 41, *Peziza clandestina*  $\beta$  p.)
157. *Peziza rosea* Rehm (**BPI Rehm; S F6369<sup>38</sup>; S F6370<sup>39</sup>; E E00456204; UPS F-633427**) // *Dasyscypha rosea* Rehm (Ber. 26: 41)
158. *Peziza spicarum* Rehm (**BPI Rehm; S F11679<sup>40</sup>; E E00456200; NY 01179527; NY 01179528; NY 01179529; UPS F-633409**) // **Helotium spicarum** Rehm (Ber. 26: 41)
159. *Peziza calycioides* Rehm (**BPI Rehm; S F69788; E00456209; UPS F-633420**) // **Dasyscypha calycioides** Rehm (Ber. 26: 42)
160. *Trichopeziza caduca* Rehm (**BPI Rehm; S F69699; E E00456600; UPS F-663323**) // **Trichopeziza caduca** Rehm (Ber. 26: 42)
- 160b. *Trichopeziza caduca* Rehm [fasc. 9] (BPI Rehm; UPS F-663322) //
161. *Micropeziza iridis* Rehm (**BPI Rehm; S F7708; UPS F-663324; ?CUP 035263, CUP D-04122 and CUP D-06764**) // **Micropeziza iridis** Rehm (Ber. 26: 42)
162. *Pezizella chlorotica* Rehm (BPI Rehm; S F9693; S F9694; E E00456197; UPS F-663325) // *Pezizella punctoidea* (P. Karst.) Rehm (Ber. 26: 42, *Helotium* p.)
163. *Pezizella aconiti* Rehm (**BPI Rehm; S F12164; NY 01168128; UPS F-663326**) // **Pezizella aconiti** Rehm (Ber. 26: 43)
164. *Xylographa flexella* (Fr.) Nyl. (S F90463; UPS L-663328) //
- 164b. *Xylographa flexella* (Fr.) Nyl. [fasc. ?<sup>41</sup>] (S F90464)
165. *Saccobolus violascens* Boud. (BPI Rehm; UPS F-663329) //
166. *Saccobolus kerverni* (Crouan) Boud. (UPS F-663330) //
167. *Lophodermium hysterooides* f. *pyri* Rehm (S F196157; S F196159) // *Ascophanus subfuscus* Boud.

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38 marked by Chlebická (2009) as lectotype

39 marked by Chlebická (2009) as isotype

40 marked by Carpenter (1979) lectotype

41 not located in published lists

168. *Poronia punctata* Fr. (BPI Rehm; UPS F-663332) //
169. *Eutypa acharii* Tul. (UPS F-663333) //
170. *Myrmaecium rubricosum* var. *quercicolum* Fuckel (BPI Rehm; UPS F-663334) // *Myrmaecium rubricosum* f. *quercicolum* Fuckel
- 170b. *Myrmaecium rubricosum* Tul. [fasc. 11] (BPI Rehm; UPS F-663335) // *Myrmaecium rubricosum* f. *quercicolum* Fuckel
171. *Valsa ambiens* f. *octospora* Rehm (UPS F-663336) // *Valsa ambiens* f. *quercus* Rehm
172. *Valsa ambiens* (UPS F-663337) // *Valsa ambiens* f. *aceris* Rehm
173. *Valsa macrostoma* Rehm (**BPI Rehm; S F5715; E E00429507; UPS F-663338**) // ***Valsa macrostoma*** Rehm (Ber. 26: 45)
174. *Valsa diatrypa* (Fr.) Nitschke (BPI Rehm; UPS F-663339; UPS F-672382) //
- 174b. *Valsa diatrypa* (Fr.) Nitschke [fasc. 6] (BPI Rehm; UPS F-663340) //
175. *Valsa kunzei* Fr. (BPI Rehm; UPS F-663341) //
176. *Dialytes tessera* Fr. (BPI Rehm; UPS F-663342) // *Diaporthe tessella* (Fr.) Nitschke
177. *Diaporthe innesii* (Curr.) Fuckel (UPS F-663343) //
178. *Thyridium betulae* Nitschke (BPI Rehm; S F66536; UPS F-663344) //
179. *Thyridium vestitum* f. *coluteae* Rehm (BPI Rehm; UPS F-663345; UPS F-672387) // *Thyridium vestitum* (Fr.) Fuckel
180. *Pyrenophora trichostoma* (Fr.) Fuckel (BPI Rehm; S F62138; BPI 627968; UPS F-663346) //
181. *Lophiostoma caulium* De Not. (BPI Rehm; UPS F-663347) //
182. *Lophiostoma compressum* Nitschke (BPI Rehm; UPS F-663348) //
- 182b. *Lophidium compressum* f. *ruborum* [fasc. 10] (S F29203; UPS F-663349) // *Lophiostoma compressum* (Pers.) De Not.
- 182c. *Lophidium compressum* Pers. [fasc. 13] (S F29207) // *Lophiostoma compressum* (Pers.) Nitschke
- 182d. *Lophidium compressum* Pers. [fasc. ?<sup>42</sup>] (S F29209)
- 182e. *Lophidium compressum* f. *ruborum* [fasc. 55] (BPI 645919; S F29203; S F29205; S F29206; CUP F1319) // *Platystomum compressum* (Crouan)
183. *Lophiostoma sedi* Fr. (**BPI Rehm; S F71875; UPS F-663350**) // ***Lophiostoma glaciale*** Rehm (Ber. 26: 45)

184. *Nectria cinnabarina* f. *obscura* Rehm (**S F84504; UPS F-663351**)  
// ***Nectria cinnabarina* f. *obscurata*** Rehm (Ber. 26: 48)
185. *Cucurbitaria elongata* Grev. (BPI Rehm; ?UPS F-663352) //
186. *Melanomma rhododendri* Rehm (BPI Rehm; S F29418; S F49996;  
UPS F-672893; UPS F-672935; UPS F-672937; UPS F-672938;  
UPS F-672939; UPS F-663353) //
- 186b. *Melanomma rhododendri* Rehm. [fasc. 6] (BPI Rehm; S F29418;  
UPS F-663354) //
187. *Massaria pupula* (Fr.) Tul. (UPS F-663355) //
188. *Rhaphidospora rudis* (Riess) Fuckel (BPI Rehm; S F256911;  
UPS F-663356) // *Ophiobolus rudis* (Riess) Rehm (Ber. 26: 48,  
Entodesmium r.)
- 188b. ?<sup>43</sup>
- 188c. ?<sup>44</sup> [fasc. 31] // *Lophidium compressum* (Pers.) Sacc.
189. *Rhaphidospora compressa* Rehm (**BPI Rehm; S F12720; UPS  
F-663357**) // ***Ophiobolus compressus*** Rehm (Ber. 26: 49)
190. *Rhaphidospora echii* Rehm (**BPI Rehm; S F70866; E E 00429520;  
UPS F-663358**) // ***Ophiobolus echii*** Rehm (Ber. 26: 49)
191. *Leptospora radiata* Fuckel (BPI Rehm; UPS F-663359) //
- 191b. *Ophiobolus cesatianus* (Mont.) Sacc. [fasc. 49] (BPI 628990) //
192. *Rosellinia sordaria* (Fr.) Rehm (BPI Rehm; UPS F-663360) //  
*Rosellinia sordaria* (Fr.) Rehm (Ber. 26: 49, Sphaeria s.)
193. *Leptosphaeria arundinacea* (Sowerby) Sacc. (BPI Rehm; UPS  
F-663361) //
194. *Pleospora doliolum* (UPS F-663362) // *Leptosphaeria doliolum*  
f. *conoidea* De Not.
- 194b. *Leptosphaeria conoidea* De Not. [fasc. 39] (BPI Rehm; BPI  
620553) //
195. *Leptosphaeria culmifraga* (Fr.) Ces. & De Not. (BPI Rehm;  
S F70872; UPS F-663363) //
196. *Microthelia atomaria* Körb. (UPS F-663364) //
197. *Leptorhaphis acerina* Rehm (**S L1668; UPS L-547485**) //  
***Leptorhaphis acerina*** Rehm (Ber. 26: 51)
198. *Sordaria coprophila* (Fr.) Ces. & De Not. (S F11170<sup>45</sup>; UPS  
F-663365) //
199. *Sordaria minuta* Fuckel (BPI Rehm; UPS F-663366) //

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43 either specimen or published name located

44 the specimen not located

45 marked by Lundqvist (1970) as paratypus

200. *Sordaria curvula* de Bary (UPS F-663367) //
201. *Peziza cerea* Sowerby (BPI Rehm; S F188479; UPS F-663368) // *Pustularia cerea* (Sowerby) Rehm (Ber. 26: 51, *Peziza* c.)
202. *Sclerotinia tuberosa* (Bull.) Fuckel (BPI Rehm; UPS F-663369; FH) //
- 202b. *Sclerotinia tuberosa* (Bull.) Fuckel [fasc. 16] (PH 00301521) //
- 202c. *Sclerotinia tuberosa* (Hedw.) Fuckel [fasc. ?<sup>46</sup>] (BPI Rehm; BPI 653203; MICH 267536)
- 202d. *Sclerotinia tuberosa* (Hedw.) Fuckel [fasc. 35<sup>47</sup>] (BPI 653203) //
203. *Leucoloma rubricosum* (Fr.) Fuckel (BPI Rehm; UPS F-663370) //
204. *Trichopeziza relicina* (Fr.) Fuckel (BPI Rehm; UPS F-663371) //
205. *Tapesia leucostoma* Rehm (**BPI Rehm; S F11887; UPS F-672125; UPS F-672133; UPS F-672134; UPS F-663372**) // ***Dasyscypha leucostoma*** Rehm (Ber. 26: 53)
- 205b. *Tapesia leucostoma* Rehm [fasc. 7] (BPI Rehm; UPS F-663373) // *Dasyscypha leucostoma* Rehm
206. *Dasyscypha cerina* (Pers.) Fuckel (UPS F-663374) //
207. *Dasyscypha calyculaeformis* Schumach. (BPI Rehm; S F154593; NY 01721064; UPS F-663375) // *Trichopeziza calyculaeformis* (Schumach.) Rehm (Ber. 26: 53, *Peziza* c.)
208. *Helotium salicellum* (Fr.) (UPS F-663376; FH 00434496) //
209. *Pyrenopeziza lojkae* f. *fuscoatra* Rehm (UPS F-663377) // *Heterosphaeria lojkae* Rehm
- 209b. *Eutypa flavovirens* (Hoffm.) Tul. [fasc. 53] (CUP F-0897) //
210. *Calloria diaphana* Rehm (BPI Rehm; S F49448; UPS F-663378) // *Habrostictis diaphana* Rehm<sup>48</sup>
211. *Ascobolus leveillei* Boud. (BPI Rehm; S F7297; UPS F-663379) //
212. *Excipula petiolicola* Fuckel (BPI Rehm; S F277888; UPS F-663380) // *Trochila petiolicola* (Fuckel) Rehm (Ber. 26: 54, *Excipula* p.)
213. *Cenangium prunastri* Fr. (UPS F-663381) //
214. *Hysterium angustatum* Alb. & Schwein. (BPI Rehm; UPS F-663382) //
215. *Hysterium pulicare* Pers. (UPS F-663383) //

46 not located in published lists

47 listed as „202b, ...Waldfriedhof in München, Rehm“

48 Previously issued no. 118 has only the description of *Habrostictis diaphana* var. *alpigena* Rehm. The species *Habrostictis diaphana* Rehm was validly published in Rehm's *Ascomycetes* Lojkani p. 16, 1882.

216. *Mytilidion lineare* Rehm (**BPI Rehm; S F10889; UPS F-663384**)  
// **Mytilidion lineare** Rehm (Ber. 26: 55)
217. *Exoascus alni* de Bary (BPI Rehm; UPS F-663387) //
- 217b. ?<sup>49</sup> [fasc. 16] // *Exoascus flavus* Sadenb.
218. *Eutypa aspera* (Nitschke) Fuckel (UPS F-663386) //
219. *Eutypa flavovirens* (Hoffm.) Tul. (UPS F-663388; UPS F-672452)  
//
- 220a. *Diatrype stigma* (Hoffm.) Fr. (UPS F-663389) //
- 220b. *Diatrype stigma* (Hoffm.) Fr. (UPS F-663390; UPS F-672453) //
221. *Hypoxylon fuscum* (Pers.) Fr. (UPS F-663391) //
222. *Anthostoma schmidtii* (UPS F-663392) // *Anthostoma melanotes*  
(Berk. & Broome) Sacc.
223. *Valsa ambiens* f. *coryli* Rehm (UPS F-663393) //
224. *Valsa cincta* Fr. (BPI Rehm; UPS F-663394) //
225. *Valsa translucens* De Not. (BPI Rehm; UPS F-663395; UPS  
F-672454) //
- 225b. *Valsa translucens* (De Not.) Ces. & De Not. [fasc. 38] (BPI Rehm)  
//
- 225c. *Valsa translucens* (De Not.) Ces. & De Not. [fasc. 42] (BPI Rehm;  
BPI 575417) //
226. *Valsa cypri* var. *fraxini* Rehm (**UPS F-663480**) // **Valsa cypri** var.  
**fraxini** Rehm (Ber. 26: 57)
227. *Melanconis umbonata* (UPS F-663483) // *Pseudovalsa umbonata*  
(Tul.) Sacc.
228. *Phyllachora graminis* (Pers.) Fuckel (UPS F-663486) //
- 228a. ?<sup>50</sup> [fasc. 17] // *Phyllachora graminis* (Pers.) Fuckel
- 228b. *Phyllachora graminis* (Pers.) Fuckel [fasc. 35] (BPI 637517; UPS  
F-671686; CUP F-1899) //
229. *Cucurbitaria rhamni* Fr. (BPI Rehm; UPS F-663489) //
230. *Gibberella pulicaris* (Fr.) Sacc. (UPS F-663492) //
231. *Nectria coryli* Fuckel (BPI Rehm; UPS F-663495) //
232. *Nectriella dacrymycella* Nyl. (BPI Rehm; S F279963; UPS  
F-672126; UPS F-672455; UPS F-663499) // *Calonectria*  
*dacrymycella* (Nyl.) Sacc.
- 232b. *Nectriella dacrymycella* (Nyl.) Rehm [fasc. 8] (BPI Rehm;  
S F279960; S F279961; UPS F-663506) // *Calonectria*  
*dacrymycella* (Nyl.) Sacc.

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49 the specimen not located

50 the specimen not located

233. *Sordaria bombardoides* Auersw. (BPI Rehm; S F728; UPS F-663503) //
234. *Sordaria coprophila* (Fr.) Ces. & De Not. (BPI Rehm; UPS F-663508) //
235. *Sordaria fimiseda* Ces. & De Not. (UPS F-663511) //
236. *Massaria rhodostoma* Tul. (BPI Rehm; UPS F-663514) //
237. *Didymosphaeria acerina* Rehm (**S F6561<sup>51</sup>**; **UPS F-663518**; ?NY 01047125) // **Didymosphaeria acerina** Rehm (Ber. 26: 59)
- 237b. *Didymosphaeria acerina* Rehm [fasc. 52<sup>52</sup>] (BPI 617676; S F13664; A. Aptroot 1993: *Amphisphaeria multipunctata*; S F13683) //
238. *Lophiostoma excipuliforme* Fr. (BPI Rehm; UPS F-663522; UPS F-016648) // *Lophiostoma excipuliforme* var. *balsamianum* De Not.
239. *Teichospora ampullacea* Rehm (**BPI Rehm**; **S F6314**; **UPS F-663525**; **E E00456138**; **NY 00914192**) // **Teichospora ampullacea** Rehm (Ber. 26: 60)
240. *Leptosphaeria culmorum* Auersw. (S F70999; UPS F-663527) //
- 240b. *Leptosphaeria culmorum* Auersw. [fasc. 30] (UPS F-663530) //
- 240c. *Leptosphaeria culmorum* Auersw. [fasc. 43] (BPI 621194) //
241. *Sphaeria unicaudata* Berk. & Broome (BPI Rehm; UPS F-663532) // *Rebentischia unicaudata* (Berk. & Broome) Sacc.
- 241b. *Rebentischia unicaudata* (Berk. & Broome) Sacc. [fasc. 32] (BPI 620059; S F24141; S F24140) //
242. *Sordaria intermixta* Berk. & Broome (**BPI Rehm**; **S F7492<sup>53</sup>**; **UPS F-663535**) // **Massaria polymorpha** Rehm (Ber. 26: 60)
243. *Gnomonia pruni* Fuckel (BPI Rehm; UPS F-663538) // *Gnomonia melanostyla* (DC.) Fuckel [as no. 244 in Ber.]
244. *Gnomonia melanostyla* Fuckel (BPI Rehm; UPS F-663541; UPS F-672459) // *Gnomonia pruni* Fuckel (as no. 243 in Ber.)
245. *Capnodium fuliginodes* Rehm (BPI Rehm; S F10966; S F10967; UPS F-663545; E 00429433) // *Spheconisca humilis* Norman (Ber. 26: 61)
246. *Stigmatea robertiani* Fr. (BPI Rehm; UPS F-663551) //
247. *Hypoxylon diathrauston* Rehm (S F7386; UPS F-663554) //

51 lectotype; Aptroot (Nova Hedwigia 60: 330, 1995) presented specimen in S as holotype and specimens in FH and NY as isotypes

52 presented also in the list for fasc. 54 as *Massariopsis acerina* Rehm

53 marked by Aptroot (1996) as holotype of *M. polymorpha*; see also Aptroot, Nova Hedwigia 66: 126, 1998

- Chaetomium elatum J. Kunze
- 247b. *Chaetomium elatum* J. Kunze [fasc. 46] (BPI 580341) //
248. *Calocladia comata* Lév. (BPI Rehm) //
249. *Erysiphe martii* f. *leguminosarum* Link (BPI Rehm; S F245241; UPS F-663560) // *Erysiphe martii* f. *vincae*
250. *Sphaerotheca castagnei* f. *humuli* (DC.) (BPI Rehm; UPS F-663563)
251. *Otidea leporina* (Batsch) Fuckel f. *minor* (**S F88382**<sup>54</sup>; S F189442; UPS F-641412) //
- 251b. *Otidea leporina* f. *minor* Rehm [fasc. 17] (S F88367 and S F88368: J. Ax. Nannfeldt 1966: *O. caligata* (Nyl.) Sacc.; UPS F-629314)
252. *Peziza nigrella* Nyl. (BPI Rehm; S F132635; UPS F-663599) // *Pseudoplectania nigrella* (Pers.) Fuckel
253. *Velutaria rhododendri* (Ces.) (BPI Rehm; BPI 1108285; UPS F-663603) //
254. *Helotium apostata* Rehm (**S F11635**<sup>55</sup>; E E00433440; UPS F-633491; NY 01169354; NY 01169355) // *Belonium vexatum* De Not.
- 254b. *Helotium apostata* Rehm [fasc. 8] (BPI Rehm; S F51470; S F51471; UPS F-663609; E E00433441) // *Belonidium vexatum* De Not.
255. *Helotium glanduliforme* Rehm (BPI Rehm; **S F11645**<sup>56</sup>; UPS F-663617; E E00456184; ?NY 01169466; NY 01169467; NY 01169468) // ***Helotium glanduliforme*** Rehm (Ber. 26: 64)
256. *Pyrenopeziza diffindens* Rehm (BPI Rehm; S F10292; **S F10291**<sup>57</sup>; UPS F-663621; E 00456116) // ***Odontotrema diffindens*** Rehm (Ber. 26: 64)
257. *Pyrenopeziza molluginis* Rehm (**BPI Rehm; S F7701; UPS F-663622; E E00456111**) // ***Pyrenopeziza molluginis*** Rehm (Ber. 26: 64)
258. *Hyalopeziza ciliaris* (Schrad.) Fuckel (BPI Rehm; UPS F-663623) // *Trichopeziza ciliaris* (Schrad.) Rehm (Ber. 26: 64, *Peziza* c.)
- 258b. *Lachnum ciliare* (Schrad.) [fasc. 28] (BPI 659516; UPS F-663624) //

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54 lectotype designated by Olariaga & al., *Persoonia* 35: 185, 2015, S F189442 as isolectotype

55 lectotype designated by Carpenter (Mem. New York Bot. Gard. 33: 60, 1981)

56 Carpenter, Mem. New York Bot. Gard. 33: 81, 1981

57 marked by Sherwood (1980) as type and noted "differs considerably from the type of *Odontotrema* in the structure of its margin and probably merits recognition as a distinct genus"; lectotype: Baloch, Gilenstam & Wedin, *Mycologia* 105: 389, 2013

259. *Hyalopeziza echinulata* Rehm (**BPI Rehm; S F69072; UPS F-663625**) // ***Trichopeziza echinulata*** Rehm (Ber. 26: 65)
260. *Tapesia prunicola* Fuckel (UPS F-663626) //
- 260b. *Tapesia prunicola* Fuckel [fasc. 9] (UPS F-663627) //
261. *Micropeziza punctum* Rehm (**BPI Rehm; S F6989; S F6986; UPS F-013995**) // ***Micropeziza punctum*** Rehm (Ber. 26: 65)
- 261b. *Beloniella punctum* Rehm [fasc. 18] (S F237582; S F237596) //
262. *Niptera citrinella* Rehm (**BPI Rehm; S F9775; UPS F-663628; NY 01179562**) // ***Niptera citrinella*** Rehm (Ber. 26: 66)
263. *Dasyscypha patens* var. *sphaerocephalum* (Wallr.) Rehm (BPI Rehm; S F155016; UPS F-663629) // *Dasyscypha patens* var. *sphaerocephalum* (Wallr.) Rehm (Ber. 26: 66, Peziza s.)
264. *Calloria primulae* Rehm (**BPI Rehm; S F10903; S F88303; UPS F-663630; E E004429441**) // ***Calloria primulae*** Rehm (Ber. 26: 66)
265. *Habrosticis ocellata* Fuckel (BPI Rehm; UPS F-663631) //
266. *Habrostictis aurantiaca* Rehm (**BPI Rehm; S F12975<sup>58</sup>; UPS F-663632; E E00455429; ?NY 00914947**) // ***Habrostictis aurantiaca*** Rehm (Ber. 26: 67)
267. *Arthonia proximella* Nyl. (S F75895; S F75942; UPS L-663633) //
268. *Heterosphaeria nardincola* Rehm (**BPI Rehm; S F10294; UPS F-663634; E E00433427**) // ***Crumenula nardincola*** Rehm (Ber. 26: 67)
269. *Hysterium tortile* Schwein. (BPI Rehm; S F196047; UPS F-663635) // *Mytilinidion tortile* (Schwein.) Sacc.
270. *Hypoderma aquilinum* (Schumach.) Rehm (BPI Rehm; UPS F-663636) // *Hypoderma aquilinum* (Schumach.) Rehm (Ber. 26: 67, *Hysterium* a.)
271. *Lophodermium arundinaceum* f. *culmigenum* (Fr.) (BPI Rehm; UPS F-663637) //
272. *Colpoma juniperinum* Rehm (**BPI Rehm; S F83960; UPS F-663638; NYS F-001614**) // *Colpoma juniperinum* Rehm (Ber. 26: 69)<sup>59</sup>
- 272b. *Colpoma juniperi* (P. Karst.) Rehm [fasc. 34] (BPI Rehm; BPI 648953) // *Clithris juniperi* (P. Karst.) Rehm
273. *Taphrina aurea* (Pers.) Fr. (BPI Rehm; UPS F-663639; UPS F-672458) //

58 marked by Verkley (1999) as holotype

59 priority has description by Cooke & Peck in Cooke (Bull. Buffalo Soc. Nat. Sci. 3: 36, 1875)



- 273b. *Taphrina aurea* (Pers.) Fr. [fasc. 30] (UPS F-663640; UPS F-672493) //
274. *Hypoxyton diathrauston* Rehm (**K (M)**<sup>60</sup>; BPI 716185; S F7386; UPS F-663641; UPS F-672495; UPS F-672931; UPS F-672932; UPS F-672933; UPS F-672934; E E00433418; NY 01089538) // **Hypoxyton diathrauston** Rehm (Ber. 26: 69)
275. *Diatrypella tocciaeana* De Not. (UPS F-663642) //
276. *Diaporthe inequalis* (Curr.) Nitschke (BPI Rehm; UPS F-663643) //
- 276b. *Diaporthe inaequalis* [fasc. ?<sup>61</sup>] (BPI Rehm; UPS F-663644)
277. *Diaporthe linearis* (Nees) Nitschke (UPS F-663645) //
278. *Diaporthe velata* (Pers.) Nitschke (UPS F-663646) //
279. *Valsa diatrype* var. *hippophaeës* Rehm (**BPI Rehm; S F118901; UPS F-663648**) // **Valsa diatrype** var. **hippophaeës** Rehm (Ber. 26: 70)
280. *Valsa oxystoma* Rehm (**BPI 884138 [BPI Rehm]**<sup>62</sup>; BPI 738235; NY 01293359; S F5709; S F147829; UPS F-663653; E E00429505) // **Valsa oxystoma** Rehm (Ber. 26: 70)
281. *Cucurbitaria berberidis* (Pers.) Tul (BPI Rehm; UPS F-663660; UPS F-672497) //
282. *Nectria cinnabarina* var. *berberidis* (UPS F-663661) // *Nectria cinnabarina* var. *berberidis* (Pers.) Rehm (Ber. 26: 71, *Sphaeria* b.)
283. *Bertia lichenicola* De Not. (BPI Rehm; UPS F-663662) //
284. *Melanomma rhododendri* f. *alni* Rehm (S F29420; UPS F-663663) //
285. *Trematosphaeria lichenoides* Rehm (**BPI Rehm; S F6203; UPS F-663665**) // **Winteria lichenoides** Rehm (Ber. 26: 72)
- 285b. *Winteria lichenoides* Rehm cf. *senilis* [fasc. 16] (S F13276; S F83860) //
286. *Trematosphaeria excellens* Rehm (**BPI Rehm; S F5684; S F205117; UPS F-663666; E E00456599** [coll. by Arnold]; **E E00456598** [coll. by Rehm]) // **Winteria excellens** Rehm (Ber. 26: 72)<sup>63</sup>

60 lectotype designated by Miller, A monograph of the world species of *Hypoxyton* p. 61, 1961

61 not located in published lists

62 lectotype designated by Walker & al., *Persoonia* 29: 149, 2012, and BPI 738235 and NY 01293359 as isoelectotypes

63 Specimen no. 286 includes two collections – one from Bavaria (Arnolds), one from Tirolia (Rehm). Description cites only the Tirolian collection.

287. *Chaetosphaeria nidulans* Schw. (BPI Rehm; S F81977; UPS F-663667) //
288. *Pleospora leguminum* Rabenh. (BPI Rehm; UPS F-663668) // *Pleospora herbarum* f. *leguminum* (Rabenh.) Rehm (Ber. 26: 73, *Pleospora* l.)
289. *Lophiostoma insculptum* Rehm (**BPI Rehm; UPS F-663669; E E00456230**) // **Lophiostoma insculptum** Rehm (Ber. 26: 73)
290. *Anthostoma cubiculare* Nitschke (S F277514; UPS F-663670) //
291. *Gnomonia fimbriata* (Pers.) Fuckel (BPI Rehm; UPS F-663671) //
292. *Venturia inaequalis* (Cooke) G. Winter (BPI Rehm; UPS F-663672) //
- 292b. *Venturia chlorospora* (Ces. & De Not.) P. Karst. [fasc. 33] (BPI 612424; S F107704; S F107706) //
293. *Venturia barbula* Berk. & Broome (BPI Rehm; UPS F-663673) //
294. *Sphaerella affinis* G. Winter (BPI Rehm; S F9215; UPS F-663674) //
295. *Sphaerella primulae* Rehm (**BPI Rehm; S F9593; UPS F-663675; E E00456162**) // **Sphaerella tassiana** var. **primulae** Rehm (Ber. 26: 74)
296. *Sphaerella populi* Auersw. (BPI Rehm; UPS F-663676) //
297. *Microthyrium cytisi* Fuckel (BPI Rehm; UPS F-663677) //
298. *Leptorhaphis pyrenopezizoides* Rehm (**S F10265<sup>64</sup>; E E00429585; UPS F-663678**) // **Pyrenopeziza raphidospora** Rehm (Ber. 26: 75)
299. *Microsphaera penicillata* f. *viburni* (BPI Rehm; UPS F-663679) // *Calocladia viburni* (Duby) Rehm (Ber. 26: 75, *Erysiphe* v.)
300. *Sordaria papyricola* G. Winter (BPI Rehm; UPS F-663681) //
301. *Peziza fascicularis* Alb. & Schwein. (BPI Rehm; UPS F-663684) // *Dermatea fascicularis* (Alb. & Schwein.) Fr.
- 301b. *Cenangium populneum* (Pers.) Tul. [fasc. 47] (BPI 664433) //
302. *Dasyscypha bicolor* (Bull.) Fuckel (S F157138; UPS F-663685) //
303. *Dasyscypha ellisiana* Rehm<sup>65</sup> (BPI Rehm; UPS F-663686) // *Dasyscypha lachnoderma* (Berk.) Rehm (Ber. 26: 76, *Peziza* l.)
304. *Peziza pruinifera* Rehm (**BPI Rehm; S F12082; S F63858; UPS F-663688**) // **Belonidium pruiniferum** Rehm (Ber. 26: 76)

64 both specimens are marked as lectotypes and designation says only "SI—lectotype; KI E!—isolectotypes" (Aguirre-Hudson, Bull. Brit. Mus., Nat. Sci., Bot., 21: 181, 1991)

65 Stevenson (1971: 139) connected *Peziza ellisiana* Rehm (Grev. 4: 169, 1876) with this specimen even there is no reference to Ascomyceten in the protologue

305. *Helotium calathicum* Rehm (**BPI Rehm; S F51466**<sup>66</sup>; **S F51467**<sup>67</sup>; **UPS F-633702**; ?NY 01169382; NY 01169383) // ***Helotium calathicum*** Rehm (Ber. 26: 77)
306. *Helotium cyathoideum* (Bull.) P. Karst. (UPS F-663689) //
307. *Peziza nigrescens* Cooke<sup>68</sup> (BPI Rehm; S F92315; UPS F-663690) // *Helotium nigrescens* (Cooke) Rehm (Ber. 16: 77, *Peziza* n.)
308. *Trichopeziza leucophaea* f. *alpestris* Rehm (**BPI Rehm; S F63860**; **UPS F-663692**) // ***Trichopeziza leucophaea* f. *alpestris*** Rehm (Ber. 26: 77)
309. *Trichopeziza punctiformis* (Fr.) Rehm (BPI Rehm; UPS F-663694) // *Trichopeziza punctiformis* (Fr.) Rehm (Ber. 26: 78, *Peziza* p.)
310. *Pseudopeziza protrusa* (Berk.) Rehm (BPI Rehm; UPS F-663696) // *Pseudopeziza protrusa* (Berk. & M. A. Curtis) Rehm (Ber. 26: 77, *Peziza* p.)
311. *Patellaria cucurbitaria* (Cooke) (BPI Rehm; S F277914; UPS F-663698) // *Triblidium cucurbitaria* (Cooke) Rehm (Ber. 26: 78, *Dermatea* c.)
312. *Habrostictis tithymalina* (J. Kunze) Rehm (BPI Rehm; UPS F-663703) // *Habrostictis tithymalina* (J. Kunze) Rehm (Ber. 26: 78, *Calloria* t.)
313. *Hysterium cesareense* Ellis (BPI Rehm; S F88354; UPS F-663704) // *Mytilinidion nova-caesariense* (Ellis) Rehm (Ber. 26: 79, *Hysterium* n.<sup>69</sup>)
314. *Hysterium hiascens* Cooke & Berk. (**BPI Rehm; S F113758**; **UPS F-663705**) // ***Hysterographium hiascens*** Rehm (Ber. 26: 79)
315. *Hysterium flexuosum* Schwein. (BPI Rehm; UPS F-663706) // *Hysterographium vulvatum* (Schwein.) Rehm (Ber. 26: 79, *Hysterium* v.)
316. *Hysterographium viticolum* (Cooke) Rehm (BPI Rehm; S F278053; UPS F-663707) // *Hysterographium viticolum* (Cooke & Peck) Rehm (Ber. 26: 79, *Hysterium* v.)
317. *Hypoderma vincetoxici* (Duby) (BPI Rehm; UPS F-663708) //
318. *Hypoderma smilacis* (Schwein.) Duby (BPI Rehm; S F277999);

66 marked by Carpenter (1979) as lectotype

67 according to Carpenter (Mem. New York Bot Gard. 33: 46, 1981): lectotype S, isolectotypes: K, NY 68 Protologue (Hedwigia 14: 83, 1875; Bull. Buffalo Soc. Nat. Sci. 2: 295, 1875) has no direct reference to Rehm's Ascomyceten so it is questionable if no. 307 represents a syntype for this taxon. Issued also *Mycotheca universalis* and North American fungi.

69 Bull. Torrey Bot. Club 6[1875-1879](24): 133, 1876 (no reference to Ascomyceten); issued also in *Mycotheca universalis* and North American fungi

- S F278001; UPS F-663709) //
319. *Lophodermium arundinaceum* var. *gramineum* Fuckel (**S F63865; UPS F-663710**) // ***Lophodermium arundinaceum* var. *alpinum*** Rehm (Ber. 26: 80)
- 319b. *Lophodermium arundinaceum* var. *alpinum* Rehm [fasc. 24] (UPS F-663712) //
- 319c. ?<sup>70</sup> [fasc. 49] // *Stegia fenestrata* (Rob.) Rehm
320. *Scutula sterecaulorum* (Anzi) Körb. (S F199215; UPS F-663711) //
321. *Phacidium repandum* Fr. (BPI Rehm; UPS F-663713) // *Leptotrochila repanda* (Fr.) P. Karst.
322. *Dothiora sphaeroides* Fr. (BPI Rehm; UPS F-663714) //
323. *Duplicaria empetri* (Fr.) (BPI Rehm; UPS F-663715) // *Rhytisma empetri* Fr.
324. *Heterosphaeria socia* Rehm (BPI Rehm; S F74360; S F74359; UPS F-663716) // *Heterosphaeria empetri* (Fuckel) Rehm (Ber. 26: 81, *Sphaeria* e.)
325. *Diatrype obesum* Berk. & M. A. Curtis (BPI Rehm; S F48807; UPS F-663717) // *Myrmaecium quadratum* (Schwein.) Rehm (Ber. 26: 81, *Diatrype* q.)
326. *Valsa ceratophora* var. *rosae* (BPI Rehm; UPS F-663718) // *Valsa ceratophora* var. *rosarum* De Not.
327. *Valsa auerswaldii* Nitschke (BPI Rehm; ?UPS F-663719) //
328. *Valsa nivea* var. *tetraspora* (BPI Rehm; UPS F-663721) //
329. *Melanops quercuum* (Schwein.) Rehm (BPI Rehm; UPS F-663722) // *Melanops quercuum* (Schwein.) Rehm (Ber. 26: 82, *Sphaeria* q.)
- 329b. ?<sup>71</sup> [fasc. 32] // *Eutypa spinosa* (Pers.) Tul.
330. *Diaporthe spina* Fuckel (UPS F-663724) //
331. *Diaporthe orthoceras* (UPS F-663725) // *Diaporthe orthoceras* f. *achilleae* Sacc.
- 331b. *Diaporthe orthoceras* f. *achilleae* (Auersw.) [fasc. 42] (BPI Rehm; BPI 616723) //
332. *Diaporthe arctii* (UPS F-663727) // *Diaporthe arctii* (Lasch) Rehm (Ber. 26: 83, *Sphaeria* a.)
- 332b. ?<sup>72</sup> [fasc. 15] // *Diaporthe arctii* f. *lappae* Rehm

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70 the specimen not located

71 the specimen not located

72 the specimen not located

333. *Diaporthe carpinicola* Fuckel (UPS F-663728) //
- 333b. *Diaporthe carpinicola* Fuckel [fasc. 42] (BPI Rehm; BPI 615830) //
334. *Diaporthe resecans* Nitschke (BPI Rehm; UPS F-663730) //
335. *Cryptospora limitata* J. Kunze (BPI Rehm; S F8162; UPS F-663735) // *Cryptospora chondrospora* (Ces.) Niessl
336. *Cucurbitaria elongata* Grev. (BPI Rehm; UPS F-663736) //
337. *Nectria punicea* f. *ilicola* Rehm (S F279777; UPS F-663737) // *Nectria rubicarpa* Cooke
338. *Nectriella thujana* Rehm<sup>73</sup> (**BPI Rehm; S F86333; UPS F-663738**) // ***Nectria thujana*** Rehm ex Sacc. (Mich. 1: 295)
339. *Massaria anthostomoides* Rehm (**BPI Rehm; S F63870; UPS F-663739**) // ***Leptosphaeria anthostomoides*** Rehm (Ber. 26: 84)
340. *Pleospora herbarum* (Pers.) Tul. (BPI Rehm; S F95048; UPS F-663740) // *Pleospora herbarum* f. *siliquaria* J. Kunze
341. *Pleospora armeriae* (Corda) J. Kunze (BPI Rehm; UPS F-663741) // *Pleospora herbarum* f. *armeriae* (Corda) Rehm (Ber. 26: 85, *Sphaeria* a.)
342. *Pleospora comata* var. *macrochaeta* Sacc. (BPI Rehm; UPS F-663742) // *Pleospora comata* var. *hispida* Niessl
343. *Leptosphaeria doliolum* f. *conoidea* De Not. (BPI Rehm; UPS F-663743) //
344. *Didymosphaeria brunneola* f. *sarmentorum* Niessl (BPI Rehm; UPS F-663744) // *Didymosphaeria epidermidis* var. *brunneola* f. *sarmentorum* Niessl
345. *Didymosphaeria rehmii* J. Kunze (BPI Rehm; S F263347; S F263415; UPS F-663745) //
346. *Xeosphaeria apocalypta* Rehm (**BPI Rehm; S F63873; UPS F-663746**) // ***Xeosphaeria apocalypta*** Rehm ex Arnold (Flora 60: 302)
347. *Venturia pulchella* Cooke & Peck (S F242670; UPS F-663748) //
348. *Sphaerella hyperopta* Rehm (BPI Rehm; UPS F-663751) // *Sphaerella proximella* P. Karst.
349. *Calocladia ehrenbergii* Lév. (BPI Rehm; UPS F-663752) //
350. *Erysiphe communis* f. *circeae* Fuckel (UPS F-663754) //
351. *Leucoloma hedwigii* Fuckel (BPI Rehm; S F43765; S F43766: D. Benkert 2005: *Octospora humosa* (Fr.) Dennis; UPS F-663766) // *Leucoloma luculentum* (Cooke) Rehm (Ber. 26: 87, *Peziza* l.)

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73 issued also in *Mycotheca universalis* and North American fungi

- 351b. *Humaria leucoloma* (Hedw.) Boud. [fasc. 36] (BPI Rehm; S F43762; S F43761; S F43760) //
352. *Pyrenopeziza eryngii* Fuckel (BPI Rehm; S F103025; S F103028; UPS F-663795) //
- 352b. *Pyrenopeziza eryngii* Fuckel [fasc. 16] (S F103024; S F103027) //
353. *Niptera denigrata* J. Kunze (BPI Rehm; S F270866; S F270867; UPS F-663797) // *Pyrenopeziza denigrata* (J. Kunze) Rehm (Ber. 26: 87, *Niptera* d.)
354. *Hysteropeziza erumpens* (Grev.) Rabenh. (BPI Rehm; UPS F-663799) // *Pyrenopeziza erumpens* (Grev.) Rehm (Ber. 26: 88, *Peziza* e.)
355. *Patellaria rhabarbarina* Berk. (BPI Rehm; UPS F-663802) // *Pezicula rhabarbarina* (Berk.) Tul.
356. *Tympanis pinastri* Tul. (UPS F-663803; UPS F-672456) //
357. *Patellaria spermatiospora* Nyl. (BPI Rehm; UPS F-663805) // *Tympanis spermatiospora* (Nyl.) P. Karst.
358. *Tympanis amphiboloides* Nyl. var. *hypopodiza* (BPI Rehm; ?UPS F-663807) //
359. *Dermatea tabacina* Cooke (**S F266912; S F266913; S F266914; UPS F-663808**) // ***Dermatea tabacina*** Cooke (Buffalo 3: 24; Ber. 26: 89)
360. *Propolis leucaspis* Ellis (BPI Rehm; UPS F-663809) // *Propolis leonis* (Tul.) Ellis
361. *Angelina rufescens* (Schwein.) Duby (BPI Rehm; S F125533; S F125535; UPS F-663810) //
362. *Hypoderma virgultorum* f. *rubi* (Pers.) Rehm (UPS F-663812) //
- 362b. *Hypoderma virgultorum* f. *rubi* (Pers.) DC. [fasc. 30] (UPS F-663811) //
363. *Hysterographium mori* (Schwein.) Rehm (BPI Rehm; S F278054; S F278057; UPS F-663813) // *Hysterographium mori* (Schwein.) Rehm (Ber. 26: 90, *Hysterium* m.)
364. *Hysterium viticolum* Cooke & Peck (BPI Rehm; S F277978; S F277976; UPS F-663814) // *Hysterographium viticola* var. *ruborum* Cooke [*Hysterographium viticola* (Cooke & Peck) Rehm (Ber. 26: 90, *Hysterium* v.)]
365. *Glonium lineare* (Fr.) De Not. (UPS F-663815; UPS F-672457) //
- 365b. *Glonium lineare* (Fr.) De Not. [fasc. 35] (BPI Rehm; BPI 646719) //

366. *Rhytisma punctatum* (Pers.) Fr. (BPI Rehm<sup>74</sup>; UPS F-663816) //
367. *Rhytisma acerinum* (Pers.) Fr. (BPI Rehm; UPS F-663817) //
- 367b. *Rhytisma acerinum* var. *dasycarpi* Rehm [fasc. 53] (**BPI 672383**; **BPI 672409**; **S F69137**; **S F69138**; **S F69139**; **S F69140**, **S F69141**: *Rhytisma acerinum* (Pers.) Fr.; **UPS F-695219**) // **Rhytisma acerinum** var. **dasycarpi** Rehm (Ann. 11: 395, 1913)
368. *Odontotrema minus* Nyl. (BPI Rehm; UPS F-663818) //
369. *Schizoxylon berkeleyanum* (Durieu & Lév.) Fuckel (BPI Rehm; UPS F-663819) //
370. *Ascomyces deformans* Berk. (**BPI Rehm**; **S F109768**: *Exoascus deformans* f. *persicae*; **UPS F-663820**) // **Exoascus deformans** f. **persicae** Rehm (Ber. 26: 91)
- 370b. ?<sup>75</sup> [fasc. 15] // *Exoascus deformans* f. *persicae* Rehm
371. *Dothidea mezerei* Fr. (UPS F-663821) //
372. *Diaporthe niesslii* J. Kunze (BPI Rehm; S F262866; S F262867; UPS F-663822) // *Cryptospora niesslii* (J. Kunze) Niessl
373. *Diaporthe fallaciosa* Nitschke (BPI Rehm; UPS F-663824) //
374. *Diaporthe fuckelii* J. Kunze (**BPI Rehm**; **S F262839**; **S F262840**; **UPS F-663826**) // **Diaporthe fuckelii** J. Kunze ex Rehm (Ber. 26: 92)
375. *Diaporthe salicis* (Fr.) Nitschke (UPS F-663827) // *Cryptospora salicella* (Fr.) Fuckel
- 375b. *Diaporthe salicis* (Fr.) Nitschke [fasc. 10] (UPS F-663829; UC 2033558; ?BPI 617038) // *Cryptospora salicella* (Fr.) Fuckel
- 375c. *Diaporthe salicis* (Fr.) Nitschke [fasc. 42] (BPI Rehm; BPI 617038; UC 2033558) //
376. *Diaporthe carpini* (Pers.) Fuckel (UPS F-663834) //
377. *Phyllachora cynodontis* (Sacc.) Niessl (BPI Rehm; UPS F-663835) //
- 377b. *Phyllachora cynodontis* (Sacc.) Niessl [fasc. 53] (BPI 636943) //
378. *Cryptospora hypodermia* (Fr.) Fuckel (BPI Rehm; UPS F-663836; UPS F-663839) //
- 378b. *Cryptospora hypodermia* (Fr.) Fuckel [fasc. 9] (BPI Rehm) //
379. *Melanconis modonia* Tul. (UPS F-663840) //
- 379b. ?<sup>76</sup> [fasc. 13] // *Melanconis modonia* Tul.
380. *Ottia rosae* Fuckel (BPI Rehm; UPS F-663841) //

74 2<sup>nd</sup> specimen stored in the folder 402-698 with no. 474 and 479

75 the specimen not located

76 the specimen not located

381. *Gibbera pulicaris* Fr. (BPI Rehm; ?UPS F-663842) // *Gibberella pulicaris* var. *saubinetii* (Durieu & Mont.) Sacc.
- 381b. *Gibberella saubinetii* (Mont.) Sacc. [fasc. 32] (BPI 632342) //
382. *Trematosphaeria corticivora* Rehm (BPI Rehm; S F7300; S F7301; S F7303; UPS F-663843) // *Lophiostoma duplex* P. Karst.
383. *Leptosphaeria derasa* (Berk.) Niessl (BPI Rehm; UPS F-663845) //
384. *Teichospora obtuse* Fuckel (BPI Rehm; S F78088; S F78089; UPS F-663847) //
385. *Pleospora socialis* Niessl & J. Kunze (BPI Rehm; S F95202; S F95203; UPS F-663850) //
386. *Linospora candida* Fuckel (BPI Rehm; UPS F-663851) //
387. *Amphisphaeria rehmii* Thüm. (BPI Rehm; S F6616; S F6915; UPS F-663872) // *Anthostomella rehmii* (Thüm.) Rehm (Ber. 26: 95, *Amphisphaeria* r.)
388. *Sphaeria coniothyrium* Fuckel (BPI Rehm; UPS F-663853) // *Leptosphaeria coniothyrium* (Fuckel) Sacc.
389. *Didymosphaeria albescens* Niessl (BPI Rehm; S F12030<sup>77</sup>; UPS F-663854) // *Didymosphaeria epidermidis* f. *myricariae* Rehm<sup>78</sup>
390. *Gnomonia tetraspora* G. Winter (BPI Rehm; UPS F-663856) //
391. *Gnomonia leptostyla* Fr. (BPI Rehm; UPS F-663858) // *Gnomonia leptostyla* (Fr.) Ces. & De Not.
392. *Gnomonia erythrostoma* (Pers.) Fuckel (BPI Rehm; UPS F-663859) //
393. *Gnomonia graphis* Fuckel (BPI Rehm; UPS F-663863) //
394. *Venturia cupressina* Rehm (**BPI Rehm; S F5783; S F5785; S F12345; UPS F-663864**) // ***Asterina cupressina*** Cooke (Grev. 6: 17; Ber. 26: 96)
395. *Meliola macowaniana* Thüm. (BPI Rehm; S F58136; S F58138; S F58139; UPS F-663861) // *Asterina macowaniana* (Thüm.) Cooke
396. *Erysiphe montagnei* f. *lapphae* Fuckel (BPI Rehm; UPS F-663867) //
397. *Erysiphe horridula* f. *symphyti* Rehm (**BPI Rehm; UPS F-663868**) // ***Erysiphe horridula* f. *symphyti*** Rehm (Ber. 26: 97)

77 marked by Aptroot (1993) as holotype but in his monograph of *Didymosphaeria* (Stud. Mycol. 37, 1995) he presented as the type specimen issued as no. 84 in *Fungi Selecti Exsiccati*  
 78 Aptroot (Stud. Mycol. 37, 1995): "S, holotype; H, isotype"



398. *Erysiphe martii* f. *urticae* Fuckel (BPI Rehm; UPS F-663869) //
399. *Erysiphe communis* f. *ononidis* Fuckel (BPI Rehm; BPI 565059; UPS F-663870) //
400. *Ucinula bivonae* Lév. (BPI Rehm; UPS F-663871) //
401. *Acetabula vulgaris* Fuckel (S F121574; S F121601; UPS F-663874) //
- 401b. *Acetabula vulgaris* Fuckel [fasc. 31] (S F121563; S F121618) //
402. *Peziza ancilis* Pers. (BPI Rehm; S F10381<sup>79</sup>; UPS F-663876) // *Plicaria venosa* (Pers.) Cooke
- 402b. *Discina venosa* (Pers.) Sacc. [fasc. 32] (S F128685; S F128689) //
403. *Melachroia xanthomela* (Pers.) Boud. f. *americana* (BPI Rehm; S F96472; S F96473; UPS F-663878) // *Humaria xanthomela* (Pers.) Cooke
- 403b. *Melachroia xanthomela* f. *americana* Rehm [fasc. 34] (**BPI Rehm; BPI 571548; S F96472; S F96473; MICH 14349**) // **Melachroia xanthomela f. americana** Rehm (Ann. 3: 230, 1905)
404. *Humaria tenuis* Fuckel (BPI Rehm; UPS F-663879) //
405. *Humaria trechispora* (Berk. & Broome) Rehm (S F189544; S F189614; UPS F-663882) // *Humaria trechispora* (Berk. & Broome) Rehm (Ber. 26: 99, *Peziza* t.)
406. *Leucoloma constellatio* (Berk. & Broome) Rehm (S F189515; S F189525; S F189526; S F189544; UPS F-663883) // *Leucoloma constellatio* (Berk. & Broome) Rehm (Ber. 26: 99, *Peziza* c.)
- 406b. *Leucoloma constellatio* (Berk. & Broome) Rehm [fasc. 12] (S F189543) //
- 406c. ?<sup>80</sup> [fasc. 16] (?BPI 570104) // *Leucoloma constellatio* (Berk. & Broome) Rehm
- 406d. *Crouania Constellatio* (Berk. & Broome) [fasc. 46] (S F189540) // *Detonia constellatio* (Berk. & Broome) Sacc.
407. *Peziza rufo-olivacea* Alb. & Schwein. (BPI Rehm; UPS F-663885) // *Velutaria rufo-olivacea* (Alb. & Schwein.) Fuckel
408. *Chlorosplenium aeruginascens* (Nyl.) P. Karst. (UPS F-663886) //
409. *Chlorosplenium aeruginosum* (Oeder) De Not. (UPS F-663887) //
- 409b. ?<sup>81</sup> [fasc. 12] // *Chlorosplenium aeruginosum* De Not.
410. *Helotium fagineum* (Pers.) Fr. (BPI Rehm; UPS F-663888) //

79 marked by Nannfeldt as cotypus of *Peziza rehiana* Sacc. (*Michelia* 1: 544, 1879)

80 the specimen not located

81 the specimen not located

411. *Trichopeziza pteridis* (Alb. & Schwein.) Rehm (UPS F-663889) // *Trichopeziza pteridis* (Alb. & Schwein.) Rehm (Ber. 26: 100, Peziza p.)
412. *Dasyscypha erubescens* Rehm (**BPI Rehm; S F45736; UPS F-663890**) // **Pirottaea erubescens** Rehm (Ber. 26: 100)
413. *Tapesia fusca* f. *myricariae* Rehm (BPI Rehm; UPS F-663891) // *Niptera ligni* (Desm.) Rehm (Ber. 26: 101, Cenangium l.)
414. *Pezizella sordida* Fuckel (BPI Rehm; S F156976; S F156985; UPS F-663893) // *Helotium sordidum* (Fuckel) Rehm (Ber. 26: 101, Peziza s.) (BPI Rehm)
415. *Pezizella conorum* Rehm (**BPI Rehm; S F9695<sup>82</sup>; UPS F-663894; NY 01168136**) // *Helotium conigenum* (Pers.) Fuckel [**Pezizella conorum** Rehm, Discom. 663, 1892]
416. *Pyrenopeziza rubi* (Fr.) Rehm (BPI Rehm; UPS F-663896) // *Pyrenopeziza rubi* (Fr.) Rehm (Ber. 26: 101, Excipula r.)
- 416b. *Pyrenopeziza rubi* [fasc. ?<sup>83</sup>] (UPS F-663897)
417. *Micropeziza subvelata* Rehm (**BPI Rehm; S F93955; UPS F-663**) // **Micropeziza subvelata** Rehm (Ber. 26: 102)
- 417b. *Stegia subvelata* Rehm [fasc. 29]<sup>84</sup> (BPI 670581; UPS F-663900 //
418. *Lachnella flammea* (Alb. & Schwein.) Fr. (BPI Rehm; UPS F-663902) //
- 418b. *Lachnella flammea* (Alb. & Schwein.) Fr. [fasc. 25] (BPI 659999; UPS F-663901; UPS F-672494) //
419. *Naevia paradoxa* Rehm (BPI Rehm; **S F10066<sup>85</sup>**; UPS F-663903) // **Naevia paradoxa** Rehm (Ber. 26: 102)
420. *Schmitzomia pachyspora* Rehm (**BPI Rehm; S F105709; UPS F-663904**) // **Schmitzomia pachyspora** Rehm (Ber. 26: 102)
421. *Cenangium cerasi* (Pers.) Fr. (UPS F-663905) //
422. *Cenangium ribis* Fr. (BPI Rehm; UPS F-663907) // *Sclerodermis ribesia* (Pers.) P. Karst.
423. *Tympanis fasciculata* Schwein. (BPI Rehm; UPS F-663908) //
424. *Celidium stictarum* Tul. (BPI Rehm; S F76646; UPS F-663909) //
425. *Ascobolus carneus* f. *conglobatus* Rehm (BPI Rehm; S F131382; UPS F-663910) // *Ascophanus carneus* f. *conglobatus* Rehm

82 marked by Carpenter (1979) and Raitviir & Galán (1994) as lectotype

83 not located in published lists

84 presented also in the list for fasc. 32

85 lectotype; Nannfeldt (Sydowia 35: 172, 1982): „holotypus; S“

- 425b. *Ascophanus carneus* (Pers.) Boud. [fasc. 22] (S F131389; S F131467; UPS F-663913; UPS F-672460) //
426. *Spathularia flavida* (UPS F-663911) // *Spathularia clavata* (Schaeff.) Sacc.
- 426b. *Spathularia clavata* (Schäff.) [fasc. 28] (BPI 568822; S F107161; S F107162; UPS F-663912; UPS F-672461) //
427. *Xylaria polymorpha* (Pers.) Grev. (BPI Rehm; UPS F-663915) // *Xylaria polymorpha* f. *spathulata* Pers.
- 427b. ?<sup>86</sup> [fasc. 19] // *Xylaria polymorpha* (Pers.) Grev.
428. *Epichloe typhina* (Pers.) Tul. (UPS F-663916) //
- 428b. ?<sup>87</sup> [fasc. 54] // *Epichloe typhina* (Pers.) Tul.
429. *Diaporthe strumella* Fr. (BPI Rehm; UPS F-663917) //
430. *Diaporthe spiculosa* Alb. & Schwein. (BPI Rehm; UPS F-663918) //
- 430b. ?<sup>88</sup> [fasc. 15] // *Diaporthe spiculosa* (Alb. & Schwein.) Nitschke
431. *Diatrype disciformis* Fr. (BPI Rehm; S F263336; UPS F-663919; UPS F-672463) // *Diaporthe disciformis* var. *magnoliae* Thüm.
- 431b. *Diatrype tremellophora* Ellis [fasc. 31] (S F263288; S F263289) //
432. *Valsa pini* Alb. & Schwein. (BPI Rehm; UPS F-663920) //
433. *Cryptosphaeria millepunctata* Grev. (**BPI Rehm; UPS F-663921**) // ***Cryptosphaeria millepunctata* f. *populi*** Rehm (Ber. 26: 106)
- 433b. ?<sup>77</sup> [fasc. 24] // *Cryptosphaeria populina* (Pers.) Sacc.
- 433c. *Cryptosphaeria populina* [fasc. ?<sup>89</sup>] (UPS F-663923; UPS F-672464)
434. *Cryptosphaeria millepunctata* Grev. (BPI Rehm; UPS F-663922) // *Cryptosphaeria millepunctata* f. *sarothamni* Rehm
435. *Hypocrea tuberculariformis* Rehm (**BPI Rehm; S F86646; UPS F-634242; ?NY 01013270**) // ***Hypocrea tuberculariformis*** Rehm ex Sacc. (Mich. 1: 302)
- 435b. ?<sup>77</sup> [fasc. 37] // *Nectria tuberculariformis* (Rehm) G. Winter //
- 435c. ?<sup>77</sup> [fasc. 37] (?BPI 551025) // *Nectria tuberculariformis* (Rehm) G. Winter
- 435d. *Nectria tuberculariformis* (Rehm) G. Winter [fasc. 37] (BPI 553254; BPI 553253) //
- 435e. *Nectria tuberculariformis* (Rehm) G. Winter [fasc. 51] (BPI 553255) //

86 the specimen not located

87 the specimen not located

88 the specimen not located

89 not located in published lists

436. *Nectria magnusiana* Rehm (**BPI Rehm; S F84956; S F84960; UPS F-634243**) // *Nectria magnusiana* Rehm ex Sacc. (Mich. 1: 294)
437. *Massaria foedans* (Fr.) Fuckel (BPI Rehm; UPS F-663924) //
438. *Massaria vomitoria* Berk. & M. A. Curtis (BPI Rehm; UPS F-663925) //
- 438b. *Massaria vomitoria* Berk. & M. A. Curtis [fasc. 34] (BPI Rehm; BPI 619989; ?UPS F-645701) //
439. *Leptosphaeria echinella* (BPI 627346; UPS F-663926) // *Pleospora calvescens* (Fr.) Tul.
- 439b. ?<sup>90</sup> [fasc. 15] // *Pleospora calvescens* (Fr.) Tul.
440. *Pleospora spinosella* Rehm (**BPI Rehm; S F60535; UPS F-663927**) // *Pleospora spinosella* Rehm (Ber. 26: 107)
441. *Didymosphaeria grumata* (Cooke & Ellis) Rehm (**BPI Rehm; S F7478; UPS F-663928**) // *Didymosphaeria grumata* (Cooke & Ellis) Rehm (Ber. 26: 108, *Sphaeria* g.<sup>91</sup>) [**Didymosphaeria grumata** Cooke ex Rehm<sup>92</sup>]
442. *Bertia moriformis* (Tode) De Not. (BPI Rehm; S F333; UPS F-663929; UPS F-672465) //
443. *Sphaerella aquilina* (Fr.) Fuckel (BPI Rehm; UPS F-663931) //
444. *Sphaerella berberidis* Fuckel (BPI Rehm; UPS F-663933) //
- 444b. *Sphaerella berberidis* Fuckel [fasc. 21] (UPS F-663935; UPS F-672466) //
445. *Venturia inaequalis* f. *salicis* Rehm (BPI Rehm; UPS F-663936) //
446. *Microsphaera ravenelii* Berk. (BPI Rehm; UPS F-663938) // *Calocladia ravenelii* (Berk.) Rehm (Ber. 26: 108, *Microsphaeria* r.)
447. *Microthyrium smilacis* De Not. (BPI Rehm; UPS F-663943) //
448. *Calocladia holosericea* Lév. (BPI Rehm; UPS F-663944) //
449. *Erysiphe martii* f. *leguminosarum* Link (BPI Rehm; UPS F-663560; UPS F-663946) // *Erysiphe martii* f. *trifolii* Fuckel
450. *Erysiphe communis* var. *arnicae* Rehm (**BPI Rehm; UPS F-663948**) // ***Sphaerotheca castagnei* var. *arnicae*** Rehm (Ber. 26: 109)
451. *Plicaria trachea* Rehm (BPI Rehm; S F131229; UPS F-663964) // *Boudiera areolata* Cooke & W. Phillips
452. *Plicaria viridaria* f. *obscurata* Rehm (**S F96384; UPS F-663965**) // ***Plicaria viridaria* f. *obscurata*** Rehm (Ber. 26: 110)

90 the specimen not located

91 invalid name

92 see also Aptroot (Stud. Mycol. 37, 1995)

453. *Humaria albocincta* (Berk. & M. A. Curtis) Rehm (UPS F-663966) // *Humaria albocincta* (Berk. & M. A. Curtis) Rehm (Ber. 26: 110, Peziza a.)
454. *Humaria hirta* (Schum.) (**S F190984; UPS F-663967; ?CUP 061701**) // **Humaria hirtella** Rehm (Ber. 26: 110)
455. *Humaria chateri* (W. G. Sm.) Rehm (UPS F-663970) // *Humaria chateri* (W. G. Sm.) Rehm (Ber. 26: 111, Peziza ch.)
456. *Humaria umbrata* f. *pallida* Rehm (**S F190914; UPS F-663972**) // **Humaria umbrata** f. **pallida** Rehm (Ber. 26: 111) [*Humaria umbrata* (Fr.) Rehm (Ber. 26: 111, Peziza u.)]
457. *Dasyscypha fuscescens* Pers. (**BPI Rehm; S F154814; UPS F-663973**) // **Dasyscypha fuscescens** f. **fagi** Rehm (Ber. 26: 111)
458. *Dasyscypha fuscescens* Pers. (**BPI Rehm; S F154816; UPS F-663974**) // **Dasyscypha fuscescens** f. **quercus** Rehm (Ber. 26: 112)
459. *Pyrenopeziza betulicola* Fuckel (BPI Rehm; UPS F-663980) //
460. *Pezizella mali* Rehm (**BPI Rehm; S F158150; UPS F-663982; CUP K-0659**) // **Pezizella mali** Rehm (Ber. 26: 112)
461. *Calloria scoliospora* f. *minor* Rehm (**BPI Rehm; S F88320<sup>93</sup>; UPS F-663983**) // **Calloria rubella** f. **minor** Rehm (Ber. 26: 112) [*Calloria rubella* (Pers.) Rehm (Ber. 26: 112, Peziza r.)]
462. *Pezicula livida* f. *tetraspora* Rehm (**S F90542; UPS F-663984**) // **Pezicula livida** f. **tetraspora** Rehm (Ber. 26: 112) [*Pezicula livida* (Berk. & Broome) Rehm (Ber. 26: 112, Patellaria l.)]
463. *Pezicula quercina* f. *alni* Fuckel (S F74749; UPS F-663987) //
- 463b. *Dermatea alni* (Fuckel) [fasc. 23] (S F90428; S F90429; UPS F-663986; UPS F-672496) //
464. *Lecanidion fusco-atrum* Rehm (**S F70220; UPS F-663988**) // **Durella fusco-atra** Rehm (Ber. 26: 113)
465. *Propolis glauca* Ellis (BPI Rehm; S F97002; S F97003; UPS F-663989) //
466. *Cenangium ericae* Fr. (BPI Rehm; UPS F-663990) //
467. *Glonium emergens* Duby (UPS F-663992) //
468. *Rhytisma andromedae* (Pers.) Fr. (UPS F-663993) //
469. *Schmitzomia arundinacea* f. *luzulae* (UPS F-663994) // *Schmitzomia arundinacea* (Pers.) P. Karst.
- 469b. *Stictis arundinacea* Pers. [fasc. 51] (BPI 668490) //

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93 marked by Baral (2014) as *Orbilina rehmi*; sp. nov. holotype

470. *Ascobolus cinereus* Crouan (S F109476; UPS F-663995) // *Ascophanus cinereus* (Crouan) Boud.
471. *Torrubia ophioglossoides* (Ehr.) Tul. (UPS F-663997) //
472. *Diatrypella verrucaeformis* (Ehr.) Nitschke (UPS F-663998) //
473. *Phyllachora flabella* (Schwein.) Thüm. (UPS F-663999) //
474. *Scirrhia rimosa* (Auersw.) (BPI Rehm; UPS F-664000) // [missing in Ber. 26, listed as appendix to the list for fasc. 13]
- 474b. *Scirrhia rimosa* (Alb. & Schwein.) Nitschke [fasc. 47] (BPI 642338) //
475. *Diaporthe dulcamarae* Nitschke (UPS F-664002) //
- 475b. *Diaporthe dulcamarae* Nitschke [fasc. 43] (BPI 616091) //
476. *Diaporthe leiphaemia* (Fr.) Sacc. (UPS F-664003; UPS F-672467) //
477. *Valsa prunastri* (Pers.) Fr. (UPS F-664005) //
478. *Schizoxylon albo-atrum* Rehm (**S F105587; UPS F-014683; NY 00914491; NY 00914492; CUP R.A.478**) // ***Schizoxylon albo-atrum*** Rehm (Ber. 26: 116)
479. *Trematosphaeria vindelicorum* Rehm (**BPI Rehm; S F73615; UPS F-664006**) // ***Melanomma vindelicorum*** Rehm (Ber. 26: 116)
480. *Trematosphaeria prorumpens* Rehm (**BPI Rehm; S F60488; UPS F-664007**) // ***Trematosphaeria prorumpens*** Rehm (Ber. 26: 116)
481. *Lophiostoma nucula* (Fr.) Fuckel (BPI Rehm; S F28125; L. Holm 1983: *Lophiostoma nukuloides* Sacc.; UPS F-664008; UPS F-016645) //
482. *Lophiostoma macrostomoides* De Not. (UPS F-664009) //
- 482b. *Lophiostoma macrostomoides* [fasc. ?<sup>94</sup>] (UPS F-664010) //
483. *Lophiostoma subcorticale* Fuckel (BPI Rehm; S F28177; UPS F-664011) //
484. *Lophiostoma caulium* f. *minutum* Rehm (**S F71865; UPS F-664012**) // ***Lophiostoma caulium* f. *minutum*** Rehm (Ber. 26: 117)
485. *Lophiostoma vicinum* Sacc. (BPI Rehm; UPS F-645127; UPS F-664013) //
486. *Pleospora herbarum* f. *resedae* Rehm (**S F95054; UPS F-664014**) // ***Pleospora herbarum* f. *resedae*** Rehm (Ber. 26: 117)
487. *Leptosphaeria niessleana* Rabenh. (BPI Rehm; UPS F-664016) //

488. *Leptosphaeria aucta* Niessl (BPI Rehm; UPS F-664017) //
489. *Gibbera pulicaris* f. *sarothamni* Rehm (**UPS F-664018**) // ***Gibberella pulicaris* f. *sarothamni*** Rehm (Ber. 26: 118)
490. *Phaeospora decolorans* Rehm (**S F93889; UPS F-664019**) // ***Trichothecium decolorans*** Rehm (Ber. 26: 118)
491. *Trichosphaeria andromedae* Rehm (**BPI Rehm; S F61013; UPS F-664020**) // ***Trichosphaeria andromedae*** Rehm (Ber. 26: 118)
492. *Meliola quinquesepitata* Rehm (BPI Rehm; S F48414; S F48415; UPS F-664021) // *Meliola inermis* Kalchbr. & Cooke<sup>95</sup>
493. *Linospora caprae* (DC.) Fuckel (UPS F-664023) //
494. *Gnomonia setacea* f. *quercus* Rehm (**UPS F-664024**) // ***Gnomonia setacea* f. *quercus*** Rehm (Ber. 26: 119)
- 494b. *Gnomonia setacea* (Pers.) Fuckel [fasc. 28] (BPI 611631; UPS F-664022) //
495. *Gnomonia setacea* f. *betulae* Rehm (**UPS F-664025**) // ***Gnomonia setacea* f. *betulae*** Rehm (Ber. 26: 119)
- 495b. *Gnomonia setacea* f. *betulae* Rehm [fasc. 43] (BPI 611660) //
496. *Sphaerella carpinea* Rehm (S F94022; UPS F-664026) // *Apiospora carpinea* (Fr.) Rehm (Ber. 26: 119, *Sphaeria* c.)
497. *Sphaerella subadians* (L.) Auersw. (BPI Rehm; UPS F-664027) // *Sphaerella asteroma* (Fr.) P. Karst.
498. *Sordaria appendiculata* (Auersw.) Niessl (UPS F-664028) //
499. *Calocladia berberidis* (DC.) Lév. (UPS F-664029) //
500. *Erysiphe martii* f. *heraclei* Rehm (**UPS F-664030**) // ***Erysiphe martii* f. *heraclei*** Rehm (Ber. 26: 120)
501. *Morchella esculenta* (L.) Fr. (S F129863; UPS F-664034) //
502. *Gyromitra esculenta* (Pers.) Fr. (BPI Rehm; S F112163; UPS F-664035) //
503. *Geoglossum glabrum* Pers. (UPS F-664036) //
- 503b. *Geoglossum sphagnophilum* Ehrenb. [fasc. 23] (S F221299; S F221300; UPS F-672468; UPS F-664037; FH 00433497; NCU F-0011551) //
- 503c. *Geoglossum ophioglossoides* (L.) Sacc. [fasc. 51] (BPI 568426) //
504. *Aleuria aurantia* (Oeder) Fuckel (S F134703; UPS F-664039) //
- 504b. *Aleuria aurantia* (Müller) Fuckel [fasc. 25] (S F134673; S F134701; UPS F-664038; UPS F-672469) //
505. *Humaria hirta* (Schumach.) Rehm (S F190965; UPS F-664041) //

95 According to Kalchbrenner & Cooke (Grev. 9: 34, 1880) *Meliola quinquesepitata* Rehm is not identical with their species.

- Humaria hirta* (Schumach.) Rehm (Ber. 26: 122, Peziza h.)
506. *Humaria stercorea* (Pers.) Fuckel (S F11270; UPS F-664042) //
507. *Peziza echinospora* P. Karst. (BPI Rehm; UPS F-664043) //  
*Plicaria echinospora* (P. Karst.) Rehm (Ber. 26: 122, Peziza e.)
508. *Ombrophila limosella* P. Karst. (BPI Rehm; UPS F-664045) //
509. *Pirottaea veneta* Sacc. & Speg. (BPI Rehm; S F60976; UPS F-664046; UPS F-664055) //
- 509b. *Pirottaea veneta* Sacc. & Speg. [fasc.42] (BPI Rehm; BPI 659227) //
510. *Trichopeziza longiciliata* Rehm (BPI Rehm; S F183955; S F183971; UPS F-664056) // *Dasyscypha spirotricha* (Oudem.) Rehm (Ber. 26: 123, Peziza s.)
511. *Pyrenopeziza laricina* Rehm (**BPI Rehm; S F69079; S F69081; UPS F-664059**) // **Pyrenopeziza laricina** Rehm (Ber. 26: 123)
512. *Pyrenopeziza molluginis* f. *centaureae* Rehm (**S F8709; UPS F-664060**) // **Pyrenopeziza aterrima** Rehm (Ber. 26: 123)
513. *Helotium vitellinum* Rehm (BPI Rehm; **S F10431**<sup>96</sup>; S F10432; NY 01179473; NY 01179474; UPS F-664063) // **Helotium vitellinum** Rehm (Ber. 26: 124)
514. *Habrostictis ocellata* f. *populi* Rehm (UPS F-664066) //
515. *Arthonia proximella* f. *tiliaecola* Rehm (S F75898; UPS L-664068) //
516. *Sarea resinae* (Fr.: Fr.) Kuntze (UPS F-664069) // *Tromera resinae* (Fr.) Körb.
517. *Plowrightia ribesia* (UPS F-664070) // *Dothidea ribesia* (Pers.) Fr.
518. *Exoascus alni* f. *strobilina* Thüm. (UPS F-664081) //
519. *Hysterium tumidum* Fr. (BPI Rehm; UPS F-664082) //  
*Lophodermium tumidum* (Fr.) Rehm (Ber. 26: 125, Hysterium t.)
520. *Anthostoma ostropoides* Rehm (**BPI Rehm; S F63395; UPS F-664084**) // **Anthostoma ostropoides** Rehm (Ber. 26: 125)
521. *Diatrype disciformis* f. *fagi* Rehm (**UPS F-664086**) // **Diatrype disciformis f. fagi** Rehm (Ber. 26: 125)
- 521b. *Diatrype disciformis* (Hoffm.) Fr. [fasc. 53] (S F263307; S F263308; S F263309; S F263310) //
522. *Phyllachora pteridis* (Rebent.) Rehm (UPS F-664091) //
- 522b. *Cryptomyces pteridis* (Rebent.) Rehm [fasc. 32] (BPI 641113) //
523. *Diaporthe orthoceras* Fr. (**BPI Rehm; UPS F-664092**) // **Diaporthe**

96 marked by Carpenter (1979) as lectotype; a specimen in S (without accession number) Carpenter presented (Mem. New York Bot. Gard. 33: 270, 1981) as the holotype



- orthoceras f. cichorii** Rehm (Ber. 26: 126)
524. *Valsa germanica* Nitschke (BPI Rehm; UPS F-664093) //
525. *Valsa ceratophora f. rubi* Rehm (UPS F-664094) //
526. *Nectria coryli* Fuckel (BPI Rehm; UPS F-664095) // *Nectria coryli f. populi* Rehm
527. *Cucurbitaria spartii* (Nees) De Not. (BPI Rehm: as 527a; UPS F-664096) //
528. *Lophiostoma melainon* Rehm (BPI Rehm; S F71894; UPS F-664098) // *Lophiostoma collinum* Speg.
529. *Lophiostoma caulium var. pseudomacrostromum* Rehm (UPS F-664101) // *Lophiostoma macrostromum* (Tode) Fuckel
530. *Trematosphaeria pleurostoma* Rehm (**BPI Rehm; S F29402; UPS F-664103**) // ***Trematosphaeria pleurostoma*** Rehm (Ber. 26: 127)
531. *Ceratosphaeria aeruginosa* Rehm (**BPI Rehm; S F50953; UPS F-664104**) // ***Ceratosphaeria aeruginosa*** Rehm (Ber. 26: 127)
532. *Leptosphaeria nitschkei* Rehm (BPI Rehm; UPS F-664105) //
- 532b. *Leptosphaeria nitschkei f. adenostylidis* Rehm [fasc. 13] (S F222762; S F222764) //
533. *Leptosphaeria juncicola* Rehm (**BPI Rehm; UPS F-664106**) // [***Leptosphaeria juncicola*** Rehm ex G. Winter (Hedwigia 19: 167)]
534. *Leptosphaeria ogilviensis* Berk. & Broome (BPI Rehm; UPS F-664107; UPS F-672470) //
535. *Didymosphaeria epidermidis* (Fr.) Fuckel (BPI Rehm; UPS F-664108) //
- 535b. *Melanomma megalosporum* De Not. [fasc. ?<sup>97</sup>] (BPI Rehm)
536. *Melanomma megalospora* (De Not.) Sacc. (BPI Rehm; S F29406; UPS F-664109) //
- 536b. *Melanomma megalosporum* [fasc. ?<sup>98</sup>] (UPS F-664110)
537. *Lasiosphaeria ambigua* Sacc. (**BPI Rehm; S F505; S F762; UPS F-664111**) // ***Lasiosphaeria ambigua var. carbonaria*** Rehm (Ber. 26: 129)
538. *Rosellinia aquila* (Fr.) Tul. (UPS F-664112) //
539. *Physalospora festucae* (Lib.) Sacc. (BPI Rehm; UPS F-664113) //
540. *Sphaerella vaccinii* Cooke (UPS F-664114) //
- 540b. *Sphaerella vaccinii* Cooke [fasc. 17] (S F83790; S F83791) //

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97 not located in published lists

98 not located in published lists

541. *Sphaerella latebrosa* Cooke (UPS F-664115) //
542. *Stigmatea andromedae* Rehm (**BPI Rehm; S F63852; UPS F-664116**) // ***Stigmatea andromedae*** Rehm (Ber. 26: 130)
- 542b. *Stigmatea andromedae* Rehm (BPI 610485; S F218026; S F218027; UPS F-664117) [fasc. 27] //
543. *Gnomonia errabunda* Desm. (**BPI Rehm; S F277831; UPS F-664118**) // ***Gnomonia errabunda f. carpini*** Rehm (Ber. 26: 130)
544. *Sphaerotheca castagnei f. adenostylidis* Rehm (**UPS F-664119**) // ***Sphaerotheca castagnei f. adenostylidis*** Rehm (Ber. 26: 130)
545. *Sphaerotheca castagnei f. plantaginis* Rehm (**UPS F-664120**) // ***Sphaerotheca castagnei f. plantaginis*** Rehm (Ber. 26: 130)
546. *Erysiphe communis f. ranunculi* Rehm (**UPS F-664121**) // ***Erysiphe communis f. ranunculi*** Rehm (Ber. 26: 131)
547. *Erysiphe communis f. thalictri* Rehm (**UPS F-664123**) // ***Erysiphe communis f. thalictri*** Rehm (Ber. 26: 131)
548. *Erysiphe tortilis* (Wallr.) Link (**UPS F-664124**) // *Erysiphe corni* (Wallr.) Rehm (Ber. 26: 131, Alphithomorpha c.)
549. *Uncinula adunca f. salicum* Rabenh. (UPS F-664125) //
550. *Uncinula adunca* (BPI 554815; UPS F-664126; UPS F-664139; UPS F-671687) // *Uncinula adunca f. populorum* Rabenh.

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***Melanoleuca cognata***, Slovakia, Vysoké Tatry Mts., Podbanské village, Tichá dolina valley, 26 October 2012, S. Jančovičová (SLO 1560). Photo O. Ďuriška; see p. 25–33.



***Melanoleuca juliannae* var. *juliannae***, Hungary, Budapest, Rákospalota, 29 November 2013, I. Rimóczi (BP 104371 and BRNM 751957). Photo originally published in Antonín et al. (2014); see p. 25–33.



***Melanoleuca strictipes***, Romania, Gilăului Mts., Someșu Rece, 4 October 2014, S. Jančovičová (SLO 1663). Photo S. Jančovičová; see p. 25–33.



***Melanoleuca verrucipes***, Czech Republic, České Švýcarsko National Park, Doubice, close to a site called Panenská jedle, 7 June 2012, V. Antonín and S. Komínková (BRNM 737663). Photo: V. Antonín; see p. 25–33.