

## Revised list of the genus *Peltigera* (lichenized *Ascomycotina*) and peltigericolous fungi from Lithuania

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Motiejūnaitė J., Miadlikowska J.: Revised list of the genus *Peltigera* (lichenized *Ascomycotina*) and peltigericolous fungi from Lithuania. Acta Mycol. 33 (2): 309–316, 1998.

Fifteen species of *Peltigera* genus and 5 species of *Peltigera* inhabiting fungi are reported from Lithuania. Three *Peltigera* species (*P. degenii*, *P. hymenina* and *P. ponojensis*) and all peltigericolous fungi are new to the studied area. One earlier recorded species – *Peltigera collina*, is not included in the present list. Distribution maps for all *Peltigera* species are provided.

**Key words:** lichens, *Peltigera*, lichenicolous fungi, distribution, Lithuania.

### INTRODUCTION

The present paper is the first one dealing in details with genus *Peltigera* in Lithuania. In the checklist of Lithuanian lichens (Rudzinskaitė 1982) 11 species and 3 varieties of the genus *Peltigera* are included. In some later works two more species were added to the list: *P. neckeri* (Motiejūnaitė 1988) and *P. membranacea* (Motiejūnaitė 1995). The present list includes 3 new for Lithuanian flora *Peltigera* species: *P. degenii*, *P. hymenina* and *P. ponojensis*.

This paper deals with modern as well as old herbarium data. Literature data where no herbarium material was available was not treated, for critical revision of known herbarium material showed that considerable part of it does not agree with original reports. Following this principle *Peltigera collina* (Ach.) Schrader was not included in the present list, the only record of this species in Lithuania being the manuscript by Pabrėža (1843), which lacks whatever collecting locality indications or herbarium voucher.

Distribution of lichenicolous fungi in Lithuania was not studied before (only one species, *Muelerella pigmaea* (Körb.) D. Hawksw. known from earlier reports (Motiejūnaitė 1990). Thus all five species of peltigericolous fungi, are new to the studied area, however random was their study.

The data on soils and climate of Lithuania are presented by Basalykas (1958), phytogeography — Natkevičaitė-Ivanauskienė (1983). The area under study in the present paper includes whole territory of Lithuania, however, more field work is still required, especially in some central and northern districts.

## MATERIAL AND METHODS

This study is based on modern as well as old herbarium collections from Lithuania which authors of the paper were able to track in various herbaria. Most of the modern material is deposited in BILAS (Botanical Institute, Vilnius, Lithuania) and WI (Vilnius University, Dept. of Botany and Genetics, Lithuania), some duplicates of it are in UGDA (Gdańsk University, Poland), and H (Botanical Museum, University of Helsinki, Finland). Old collections were studied in BILAS, WI, H and one specimen from KRAM-L (Herbarium of the Academy of Sciences, Kraków, Poland). The names of *Peltigera* species are cited after Vitikainen (1994), of lichenicolous fungi — after Santesson (1993) and Hawksworth (1981). The species were determined on the base of their morphological characters, some critical specimens were revised by Dr. Orvo Vitikainen.

## LIST OF *PELTIGERA* SPECIES

Abbreviations: Bač — Bačiauskaitė; Mich — Michalski; Min — Minkevičius; Mo — Motiejūnaitė; Pab — Pabrėža; Rudz — Rudzinskaitė.

*P. aphthosa* (L.) Willd. (Fig. 1). On soil and stones among the mosses.

Specimens examined: WI: Palanga, 18..., Pab; Trakai: Rekalnis, 1930, Mich.

*P. canina* (L.) Willd. (Fig. 2). On soil among and on mosses, on decaying tree stumps and trunk bases, on moss-covered concrete, in forests and meadows. Often associated with other terricolous lichen species: *Cetraria aculeata*, *C. ericetorum*, *C. islandica*, *Cladonia arbuscula*, *C. chlorophaea*, *C. crispata*, *C. fimbriata*, *C. furcata*, *C. glauca*, *C. phyllophora*, *C. scabriuscula*, and most of *Peltigera* species found at present. Common in Lithuania.

Specimens examined: **BILAS**: Neringa, Juodkrantė, 1984, Mo; Šakiai: Vaidgiris forest, 1987, Mo; Kretinga: Darbėnai, 1986, 1987, Mo; Salantai, 1987, Mo; Varėna: Samūniškės, 1990, Mo; Panevėžys: Žalioji giria forest, 1992, Mo; Jurbarkas: Šilinė, 1987, Mo; Molėtai: Videniškiai, 1988, Mo; Švenčionys: Pabradė military forestry, 1994, 1995, Mo; Klaipėda: Kairiai military forestry, 1994, 1995, Mo; Nemirseta military forestry, 1994, 1995, Mo; Marijampolė: Bagotoji military forestry, 1995, Mo; Palanga, 1988, Adamonytė; Trakai: Kazokiškis forest, 1994, Dringelis; Šalčininkai: Rudninkai, 1962, Min; **WI**: Trakai, 1929, anonymous; Vilnius: Karoliniškės, 1932, Mich; Antaviliai, 1956, Min; Zarasai, 1935, Bač; Anykščiai, 1960, Rudz; Trakai: Tolkiškės, 1978, Vaičiulytė; Trakai-Semeliskės, 1960, Snarskis; Neringa, Juodkrantė, 1976, Rudz; Varėna: Valkininkai, 1977, Rudz; Puvočiai, 1985, Grigaitė; Palanga, 18..., Pab, 1947, Snarskis; **H**: Kaunas, Veršvina, Freda, 1931, Linkola.

*P. degenii* Gyeln. (Fig. 3). On soil and mosses in forest.

Specimen examined: **WI**: Trakai: Varninkėliai forest, 1930, Mich.

*P. didactyla* (With.) J. R. Laundon var. *didactyla* (Fig. 4). On soil in pine and pine-birch forests and dry meadows, in recently disturbed places – gravel-pits, forest quarter lines, on mosses, covering stonewalls, rarely – on old decaying polypore fruit-bodies. Often associated with other terricolous lichen species: *Cetraria aculeata*, *C. chlorophaea*, *C. fimbriata*, *C. furcata*, *C. glauca*, *C. phyllophora*, *C. scabriuscula*, other *Peltigera* species: *P. canina*, *P. hymenina*, *P. ponojensis*, *P. rufescens*. When growing on decaying tree stumps and old polypores are associated with *Cladonia coniocraea*, *C. fimbriata*, *Hypogymnia physodes*. On disturbed and burned soil – with *Placynthiella uliginosa* and *Stereocaulon condensatum*. Common in Lithuania.

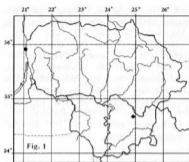
Specimens examined: **BILAS**: Šakiai: Vaidgiris forest, 1987, Mo; Neringa, Juodkrantė forestry, 1987, Mo; Jurbarkas: Šilinė, 1987, Mo; Jurbarkas forest, 1987, Mo; Ignalina: Motiejūnai, 1989, Mo; Varėna: Marcinkonys, 1992, Mo; Panevėžys: Žalioji giria forest, 1992, Mo; Vilnius, Verkiai park, 1987, Mo; Marijampolė: Bagotoji military forestry, 1995, Mo; Klaipėda: Nemirseta military forestry, 1994, 1995, Mo; Jonava: Gaižiūnai military forestry, 1994, Mo; Kaišiadorys: Neprėkšta, 1994, Mo; Švenčionys: Lakaja forest, 1994, Mo; Šalčininkai: Rudninkai military forestry, 1995, Mo; Utena: Aukštaitija National Park, Vaišnoriskė, 1995, Mo; Trakai: Kazokiškis forest, 1994 Dringelis; Tauragė: Viešvilė reserve, 1994, Uselienė; **WI**: Vilnius: Karoliniškės, 1931, Mich; Žalieji ežerai, 1961, Rudz; Šalčininkai: Jašiūnai, 1961, Min; Zarasai: Turmantas-Dūkštas, 1963, Min.

– var. *extenuata* (Nyl. ex Vain.) Goffinet et Hastings (Fig. 4). On soil in meadow, on mosses on path side in pine forest. Rare, new to Lithuania.

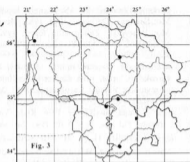
Specimens examined: **BILAS**: Varėna: Zervynos forestry, 1993, Mo; Švenčionys: Pabradė military forestry, 1994, Mo.

*P. hymenina* (Ach.) Delise (Fig. 5). On mosses and fallen leaves in meadows, heathlands and birch forests. Often associated with other *Peltigera* species: *P. canina*, *P. didactyla*, *P. rufescens* and terricolous *Cladonia fimbriata* and *C. furcata*. Scattered. New to Lithuania.

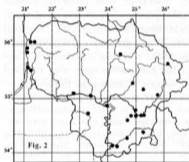
Specimens examined: **BILAS**: Kretinga: Darbėnai, 1987, Mot; Jurbarkas: Jūrava forestry, 1987, Mo; Neringa, Juodkrantė forestry, 1987, 1988, Mo; Panevėžys: Žalioji giria forest, 1992, Mo; Klaipėda: Nemirseta military forestry, 1995, Mo; Tauragė: Viešvilė reserve, 1994, Uselienė; **WI**: Palanga, 18..., Pab; Plungė: Ringė forest, 1938, Bač; Kuršiu spit, 1970, 1976, Rudz.



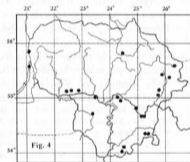
*Petigera ephrosa* (L.) Willd.



● *Petigera polydactylon* (Neck.) Hoffm.  
 ■ *Petigera degenii* Gyllen.



*Petigera canina* (L.) Willd.



● *Petigera didactyla* (Willd.) Laundén var. *didactyla*  
 ■ *Petigera didactyla* var. *extenuata* (Nyl. ex Vainio)  
 Goffinet & Hastings

*P. lepidophora* (Vain.) Bitter (Fig. 6). On soil-covered boulder.

Specimen examined: **WI**: Kretinga: Slučkai, 1938, Min.

*P. malacea* (Ach.) Funck (Fig. 7). On soil and mosses in heathlands, pine and pine-birch forests. Often associated with *P. canina*, *P. rufescens*, *Cetraria ericetorum* and *Cladonia crispata*. Rather common.

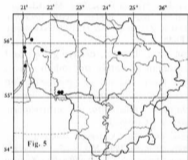
Specimens examined: **BILAS**: Šakiai: Vaidgiris forest, 1987, Mo; Neringa, Juodkrantė, 1987, Mo; Varėna: Skroblus reserve, 1994, Mo; Kapiniškės forest, 1992, Mo; Jonava: Gaižiūnai military forestry, 1994, Mo; Šalčininkai: Jašiūnai forest, 1986, Mo; Rūdninkai military forestry, 1994, Mo; Švenčionys: Pabradė military forestry, 1994, 1995, Mo; Trakai: Kazokiškis forest, 1994, Dringelis; **WI**: Trakai: Užtrakis forest, 1948, Min; (Švenčionys: Pabradė, 1962, Min; Vilnius: Ružiškės, 1961, Min; Nemenčinė, 1961, Rudz; Ignalina: Baluošas, 1979, Rudz; Lazdijai: Statiškė forest, 1981, Ambrozaitienė; Kuršiu spit, 1968, Rudz; Varena: Valkininkai, 1977, Rudz; Puvočiai, 1985, Baltrūnaitė; Kaišiadorys: Gastilony, 1957, Lalytė; Zarasai: Salakus, 1961, Rudz.

*P. membranacea* (Ach.) Nyl. (Fig. 8). On soil in pine and pine-birch forests, on mossy tree trunks in humid shaded sites. When growing on soil is associated with *P. polydactylon*, *P. rufescens*, *Cladonia scabriuscula*. Scattered.

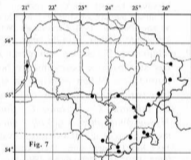
Specimens examined: **BILAS**: Kretinga: Darbėnai, 1986, Mo; Neringa, Juodkrantė forestry, 1987, Mo; Klaipėda: Nemirseta military forestry, 1994, Mo; Varėna: Zervynas, 1995, Grigaitė; Tauragė: Viešvilė reserve, 1994, Usčienė; WI: Palanga, 18..., Pab; Vilnius, Karoliniškės, 1931, Mich.

*P. neckeri* Hepp ex Müll. Arg. (Fig. 9). On mosses in grasslands, pine forests and forest edges, rarely on mossy boulders. Often associated with *P. rufescens* and *Cladonia furcata*. Scattered.

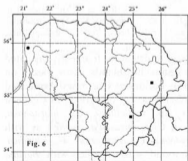
Specimens examined: **BILAS**: Kelmė: Kurtuvėnai Regional Park, 1994, Prigodina; Lazdijai: Meteliai, 1986, Mo; Kretinga: Salantai, 1986, Mo; Mauhiai forest, 1987, Mo; Neringa, Juodkrantė, 1987, Mo; Varėna: Puvočiai, 1993, 1995, Mo; Vilnius, Kairėnai, 1993, Junenaitė.



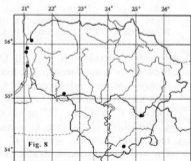
*Peltigera hymenina* (Ach.) Delise



*Peltigera malacea* (Ach.) Funck



● *Peltigera leptophora* (Vain.) Bitter  
● *Peltigera venosa* (L.) Hoffm.



*Peltigera membranacea* (Ach.) Nyl.

*P. polydactylon* (Neck.) Hoffm. (Fig. 3). On soil and mosses in grasslands and forest edges, on decaying tree trunks in shaded humid forests. When growing on soil often is associated with *P. rufescens* and *Cladonia scabriuscula*. Rare.

Specimens examined: **BILAS**: Kretinga, Salantai, 1986, Mo; Panevėžys: Žalioji giria forest, 1992, Mo; Varėna: Puvočiai, 1993, Mo; Klaipėda: Nemirseta military forestry, 1994, Mo; Jonava: Gaižiūnai military forestry, 1994, Mo; **H**: Kaunas: Raudondvaris, 1931, Linkola.

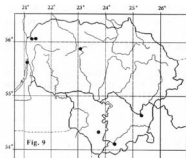
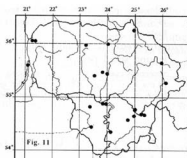
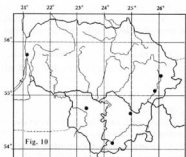
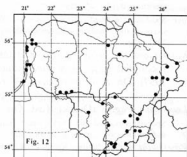
*P. ponojensis* Gyeln. (Fig. 10). On soil in grassland, on earth bank at forest edge, on mosses in pine-birch and spruce forests. Associated with other terricolous lichens: *Cetraria aculeata*, *C. islandica*, *Cladonia arbuscula*, *C. chlorophaea*, *C. furcata*, *C. phyllophora*, *C. scabriuscula*, other *Peltigera* species: *P. canina*, *P. didactyla*, *P. praetextata*, *P. rufescens*. Scattered. New to Lithuania.

Specimens examined: **BILAS**: Švenčionys: Pabradė military forestry, 1994, Mo; Klaipėda: Nemirseta military forestry, 1995, Mo; Marijampolė: Bagotoji military forestry, 1995, Mo; Varėna: Puvočiai, 1993, Černevskaia; **WI**: Trakai: Rėkalnis, 1932, Mich; Užrakis forest, 1961, Min; Ignalina: Ažvinčiu forest, 1979, Rudz.

*P. praetextata* (Flörke ex Sommerf.) Zopf. (Fig. 11). On decaying logs and tree-stumps, tree bases, mossy boulders, more rarely on soil in shady, humid sites. When growing on soil is associated with *P. ponojensis*, on tree trunk base – with *Cladonia cenotea*, *C. coniocraea*, *C. cornuta*, *C. crispata*, *C. digitata*, *C. fimbriata*, *C. macilenta*, *C. ochrochlora*, *Hypogymnia physodes*, *Vulpicidia pinastris*. Common.

Specimens examined: **BILAS**: Alytus: Vidzgiris, 1985, Mo; Kėdainiai: Petkūnai forest, 1989, Mo; Dotnuva forest, 1991, Kovėra, Pakruojis forest, 1991, Mo; Šiauliai: Gubernija forest, 1991, Mo; Biržai forest, 1992, Mo; Marijampolė: Bukta forest, 1986, Mo; Bagotoji military forestry, 1995, Mo; Kretinga: Grūšlaukis forest, 1987, Mo; Mažučiai forest, 1987, Mo; Varniškis forest, 1987, Mo; Vilnius: Verkiai park, 1987, Mo; Čekoniškės, 1986, Mo; Žalieji ežerai, 1993, Lapelė; Neringa, Juodkrantė, 1988, Mo; Švenčionys: Pakretuonė, 1995, Mo; **WI**: Vilnius: Karoliniškės, 1930, 1931, Mich; Verkiai, 1930, Mich; Žalieji ežerai, 1961, Min; Trakai: Naujieji Trakai, Rėkalnis, 1930, Mich; Tolkiskės, 1978, Vaičiulytė; Zarasai: Antalieptė, 1995, Prigodina; **KRAM-L**: Raseiniai: Blinstrubiskiai, 1909, Janczewski; **H**: Kaunas: Freda, Jiesia, Veršviai, Raudondvaris, 1931, Linkola.

*P. rufescens* (Weiss) Humb. (Fig. 12). On soil in dry, most frequently insolated habitats – pine forests, meadows, dunes, heathlands, more rarely on mossy boulders and concrete blocks or deciduous tree bases. Associated with all *Peltigera* species found at present, variety of terricolous *Cladonia* species: *C. cariosa*, *C. cervicornis* ssp. *verticillata*, *C. chlorophaea*, *C. fimbriata*, *C. furcata*, *C. ramulosa*, *C. scabriuscula*, as well as with terricolous *Cetraria* species: *C. aculeata*, *C. ericetorum*, *C. islandica*. On soil in calcareous heaths it is found with together with *Bacidia bagliettoana*. Common.

*Peltigera neckeri* Hepp ex Mull. Arg.*Peltigera praenatala* (Sommerf.) Zapf.*Peltigera poenensis* Gyeln.*Peltigera rufescens* (Wittsb.) Humb.

Specimens examined: **BILAS**: Neringa, Juodkrantė forestry, 1987, Mo; Utena: Minčia, 1984, Mo; Aukštaitija National Park, Vaišniunai, 1995, Mo; Kretinga: Reivai forest, 1960, Jaskonis; Tubausiai, 1987, Mo; Darbėnai, 1987, Mo; Mažučiai forest, 1987, Mo; Pakruojis: Rozalimas forest, 1991, Mo; Varėna: Kapiniškiai forest, 1992, Mo; Merkinė, 1992, Mo; Linėlis lake, 1986, Mo; Rudnia forestry, 1993, Mo; Puvočiai, 1993, 1995, Mo; Klaipėda: Kairiai military forestry, 1995, Mo; Nemirseta military forestry, 1994, 1995, Mo; Švenčionys: Pabradė military forestry, 1994, 1995, Mo; Marijampolė: Bagotoji military forestry, 1995, Mo; Šakūninkai: Rūdinkai military forestry, 1994, Mo; Jonava: Gaižiūnai military forestry, 1994, Mo; Panevėžys: Žalioji giria forest, 1992, Mo; Jurbarkas: Šilinė, 1987, Mo; Jurbarkas forest, 1987, Mo; Jurava forestry, 1987, Mo; Molėtai: Rudešėlis, 1990, Mo; Videniškiai, 1988, Mo; Zarasai: Tilžė, 1986, Mo; Ignalina, 1986, Mo; Alytus, 1986, Mo; Vilnius, Verkiai, 1984, Mo; Lazdijai: Gerdašiai, 1987, Treigienė; Trakai, 1961, Jaskonis; Palanga, 1988, Adamonytė; Vilnius, Visoriai, 1992, Adamonytė; Tauragė: Viedvilė reserve, 1991, Lapelė; **WI**: Kaunas: Kleboniškis, 1935, 1937, Klemas; Panemunė, 1936, Klemas; Palanga, 18..., Pab; Trakai: Rėkalnis, 1930, 1932, Mich; Varninkėliai forest, 1961, Min; Tolkiškės, 1978, Vaičiulytė; Molėtai: Baltieji Lakajai, 1962, Min; Neringa: Pervalka, 1962, Abišalaitė & Min; Nida, 1944, Bač; Karčiama hill, 1976, Rudz; Vilnius: Baltoji Voke, 1946, Bač; Vilnius: Antakalnis, 1985, Širvinskaitė;

Belmontas park, 1985, Venskutė; Ignalina: Palušė, 1973, Rudz; Varėna: Pičiupiai, 1977, Rudz; Valkininkai, 1977, Rudz; Puvočiai, 1984, Kiškytė; Zarasai: Salakas, 1961, Rudz.

*Peltigera venosa* (L.) Hoffm. (Fig. 6). On soil in pine forest, on earth bank among small pebbles.

Specimens examined: **WI**: Trakai: Rėkalnis, 1930, Mich; Molėtai: Baltieji Lakajai, 1928, Min. **M o w s z o w i c z** (1957) reports the species from Vilnius (Verkiai, Grybiškės) as well, however, locality of these herbarium specimens is not known.

## PELTIGERICOLOUS FUNGI

*Corticifraga fuckelii* (Rehm) D. Hawksw. et R. Sant. On *P. didactyla* var. *extenuata*, on *P. rufescens*, on *P. ponojensis*.

Specimens examined: **BILAS**: Varėna: Zervynos forestry, 1987, Mo; Puvočiai, 1993, Černevska; Švenčionys: Pabradė military forestry, 1994, Mo; **WI**: Trakai: Užtrakis forest, 1961, Min.

*Karsteniomyces peltigeræ* (P. Karsten) D. Hawksw. (the anamorph (macroconidial state) of *Scutula miliaris* (Wallr.) Trevis. (Triebel et al. 1997). On *P. membranacea*, *P. canina*.

Specimens examined: **WI**: Palanga, 18..., Pab; Trakai, 1929, anonymous.

*Leocarpus fragilis* (Dicks.) Rost. On *P. malacea*.

Specimens examined: **BILAS**: Varėna: Kapiniškiai forest, 1992, Mo. This *Myxomycetes* species is fortuitous on lichens and can not be considered as lichenicolous.

*Libertiella malmedyensis* Speg. et Roum. (the anamorph (mesoconidial state) of *Scutula miliaris* (Triebel et al. 1977). On *P. didactyla*.

Specimens examined: **BILAS**: Tauragė: Viešvilė reserve, 1994, Uselienė.

*Nectria lecanodes* Cesati On *P. didactyla* var. *extenuata*.

Specimens examined: **BILAS**: Varėna: Zervynos military forestry, 1987, Mo.

*Pronectria erythrinella* (Nyl.) Lowen On *P. didactyla*.

Specimens examined: **WI**: Vilnius, Žaliejai ežerai, 1961, Rudz.

## FINAL REMARKS

Genus *Peltigera* in flora of Lithuania can be considered rather rich. Of 29 species in the genus, known in Europe 15 are reported from the studied area. Taking in consideration, that 11 of all European species according to distributional data in Vitikainen (1994) are very unlikely to be found in Lithuania, the species composition of Lithuanian *Peltigera* is rather complete.



As species distribution still requires studies, not much can be said about spreading of some species in the studied area. Especially this concerns *P. aphthosa*, *P. venosa*, *P. lepidophora*, *P. degenii* – of which very few localities are known, all of them – from old collections. Most widely spread taxa appear to be *P. rufescens*, *P. canina*, *P. praetextata*, *P. didactyla*. Two species in their distribution pattern show rather different area preferences: *P. malacea* is more common in eastern, more continental districts, meanwhile *P. hymenina* was not found in the eastern part of Lithuania, preferring territory with marine influence.

**ACKNOWLEDGEMENTS.** J. Motiejūnaitė is obliged to the Centre for International Mobility, Helsinki and Open Lithuania Foundation for financial support to work at the Herbarium of Botanical Museum, University of Helsinki in 1996 and J. Miądlkowska to the Committee for Scientific Research in Poland (KBN) for financial support (grant no 1170/PO4/96/10). Both authors want to express their sincere gratitude to Dr. Orvo Vitikainen, Botanical Museum, Helsinki University, for revision of critical *Peltigera* specimens and Dr. Gražina Adamonytė, Institute of Botany, Vilnius, for determination of *Leocarpus* species.

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Zrewidowana lista gatunków z rodzaju *Peltigera* (*Ascomycotina lichenisata*)  
i grzybów występujących na plechach gatunków z rodzaju *Peltigera*  
na Litwie

Streszczenie

Zrewidowano materiały zielnikowe porostów z rodzaju *Peltigera* na Litwie, zdeponowane głównie w herbariach wileńskich (BILAS i WI). Przyjmując współczesne koncepcje gatunków okazy identyfikowano na podstawie cech morfologicznych. Podano 15 taksonów *Peltigera*, z których trzy: *P. degenii*, *P. hymenina* i *P. ponojensis*, stwierdzono po raz pierwszy na Litwie. Nie potwierdzono występowania *P. collina*, gatunku uwzględnianego we wcześniejszych publikacjach z tego obszaru. Zamieszczono mapy rozmieszczenia poszczególnych gatunków. Zidentyfikowano ponadto pięć gatunków grzybów rosnących na plechach *Peltigera*; żaden z nich nie był dotychczas notowany na Litwie.