

Integrácia základného výskumu diverzity kryptogamov do vedeckých spoluprác a praktických výstupov

Anna Bérešová



CENTRUM
BIOLÓGIE RASTLÍN
A BIODIVERZITY
SAV, v. v. i.

Oddelenie nižších rastlín

Oddelenie nižších rastlín: 12 VŠ pracovníkov, 2 doktorandi, 4 technickí pracovníci

RNDr. Anna Lackovičová, CSc.

1.10.2000
15.10.2007

APVT-51-005102 Dynamics of lichen diversity of Slovakia

APVV-0566-07 Zamedzenie procesu eutrofizácie vo vodných nádržiach použitím kompozitného sorbentu

biodiverzita
taxonómia
zoznamy („checklists“)

Mgr. Viktor Kučera, PhD.

16.10.2007
31.3.2016

APVV-51-040805 Impact of changes in air quality of an urban area of Bratislava on lichens

biosystematika
nomenklatúra
fylogénéza
environmentálny stres
biomonitoring
hodnotenie kvality prostredia

Mgr. Slavomír Adamčík, PhD.

1.4.2016
30.9.2020

APVV-15-0210 DIPOFUNGI

funkčná diverzita pôdnych húb
interakcie symbiontov
trofické skupiny húb
funkčné skupiny
fylogeografia
ekologická biogeografia
ekologické niky

Mgr. Miroslav Caboň, PhD.

1.10.2020
31.12.2021

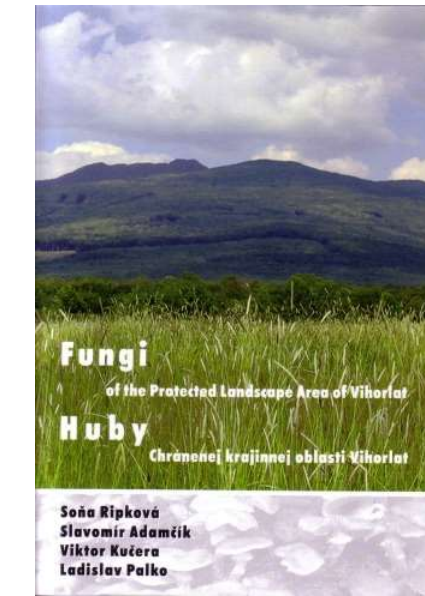
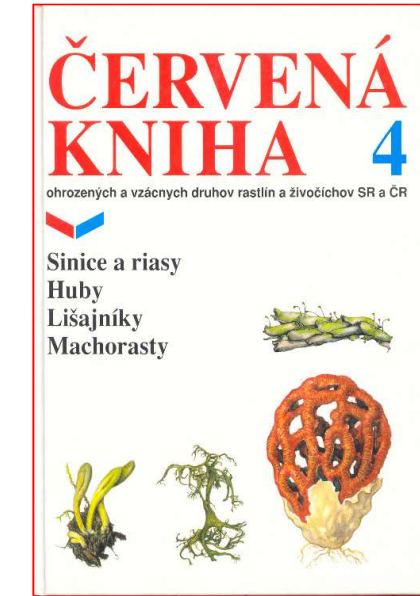
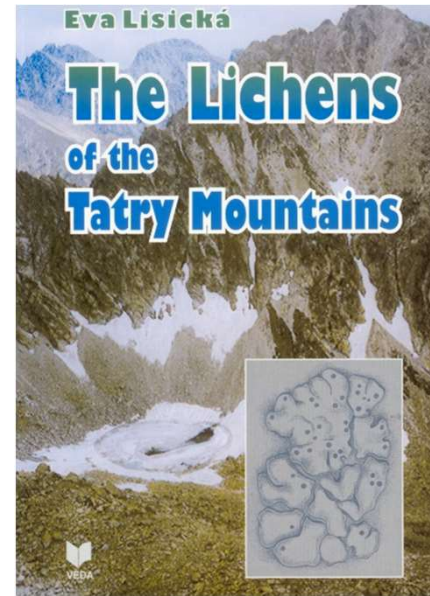
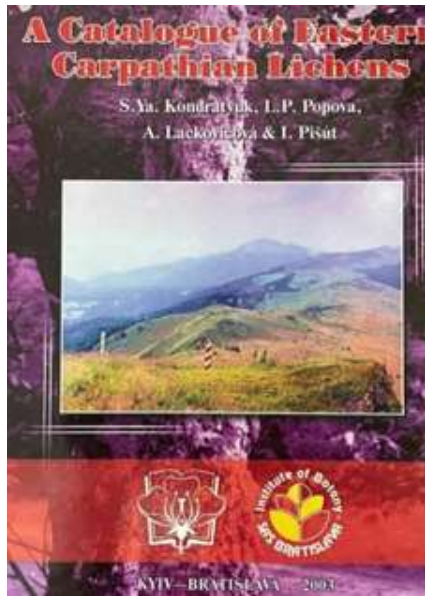
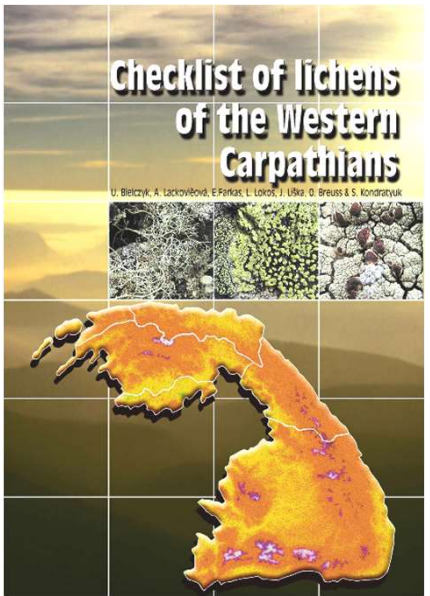
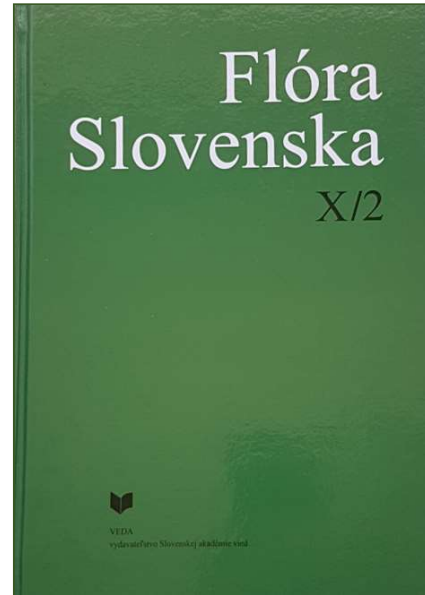
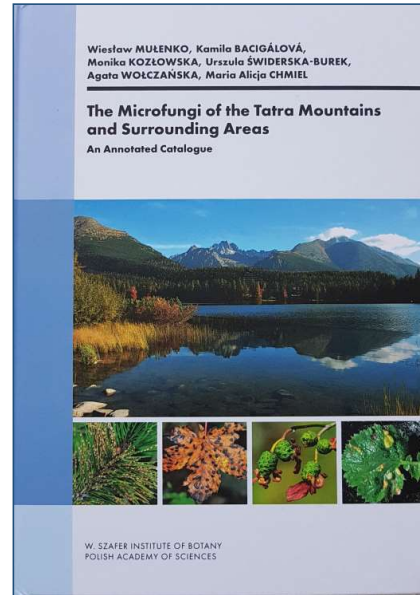
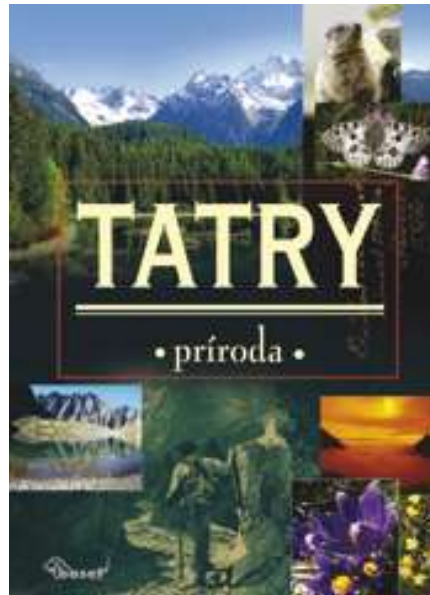
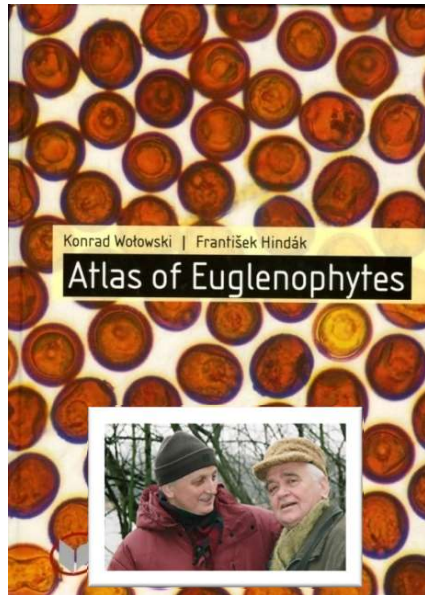
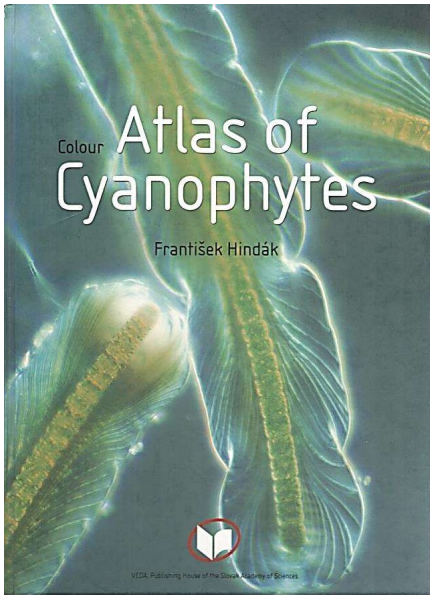
APVV-20-0257 STRAKA
APVV-20-0284 FUNPOXHYB
APVV-19-0134 PLANTIN

ekologické interakcie, funkcie,
procesy v pôde
funkčná diverzita
trofické preferencie
diferenciácia ekologických ník
interakcie lišajníkových symbiontov
extra-mediterránne refúgiá
vikarizmus

zahraničné pobyty vedeckých pracovníkov a doktorandov:

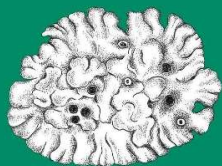
- formovali oddelenie
- umožnili zaviesť metodiky
- priniesli publikácie a nové kontakty

**nové výskumné smery
oslovenie širšej vedeckej komunity**



CENTRAL EUROPEAN LICHENS

diversity and threat



MWD100A

Dr. František HINDÁK

Flora Zatoki Gdańskiej
i wód przyległych (Bałtyk Południowy)

Marcin Pliński & František Hindák

Zielenice – Chlorophyta
(Green Algae)

(with the English key
for the identification to the genus)

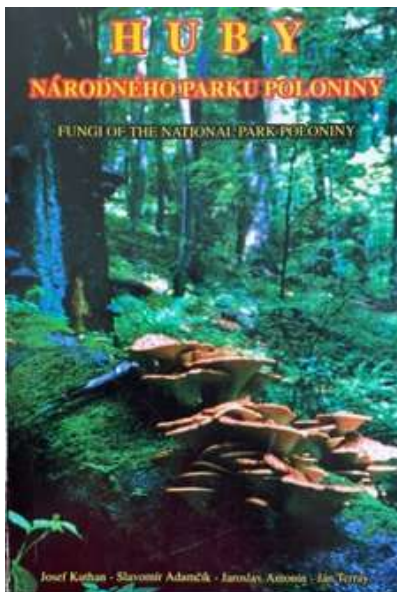
7/1

Wydawnictwo Uniwersytetu Gdańskiego

HUBY

NÁRODNEHO PARKU POLOONINY

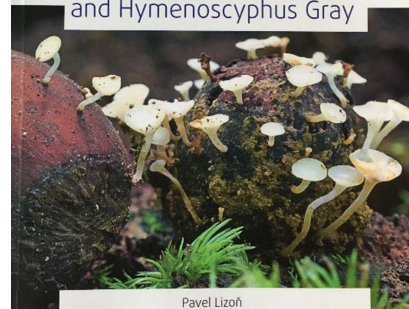
FUNGI OF THE NATIONAL PARK POLOONINY



Josef Kuthan - Slavomir Adamčík - Jaroslav Antonín - Jan Tereš

Institute of Botany, Slovak Academy of Sciences

Catalogue of Discomycetes
referred to the genera
Helotium Pers.
and Hymenoscyphus Gray



Pavel Lizoň
Viktor Kučera

Botany - Lower Plants
Botanika - Nižšie rastliny
Hindák F., Šoltés R., Gáper J., Gáperová S., Kyselová Z., Hindáková A.

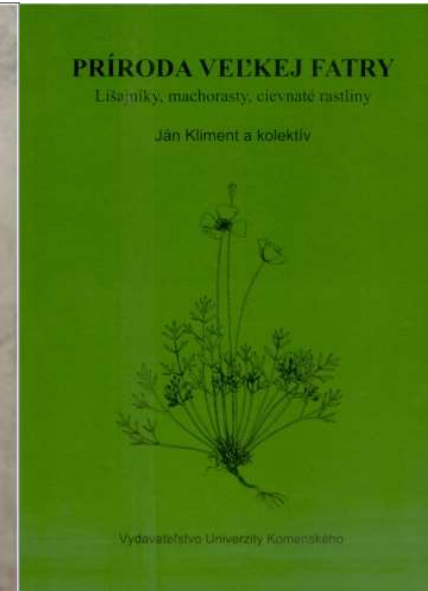
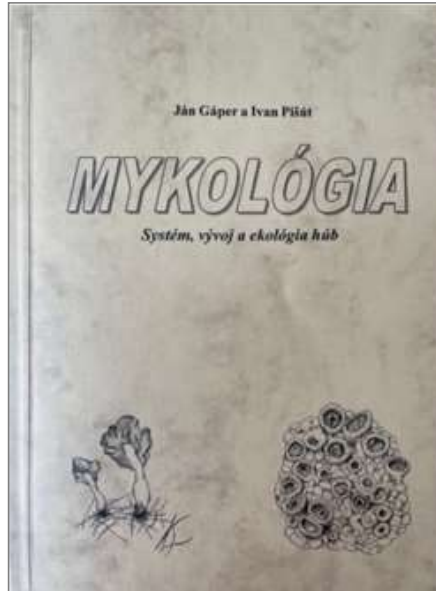
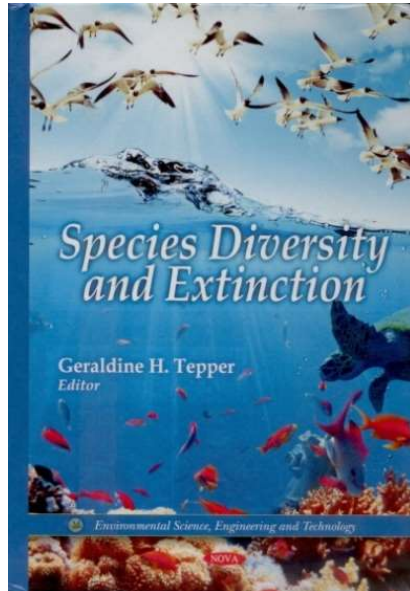
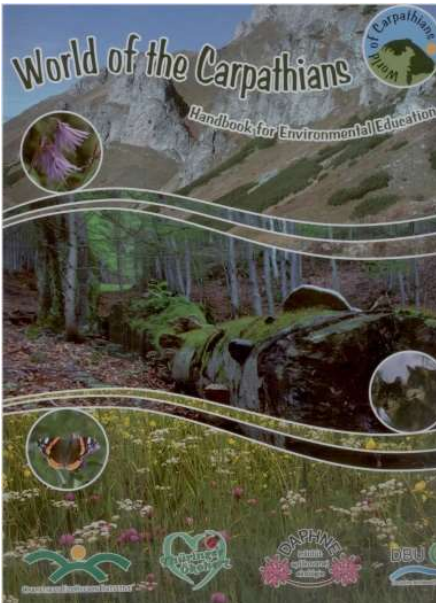


Guide books for nature protection guards and
rangers - University of Zilina series

Series Editor M. Janiga



European
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Smolenice



Greenalgae Workshops, Poznań: keynote speaker Prof. F. Hindák

medzinárodné kontakty a stretnutia

International Symposium of Biology and Taxonomy of Green Algae



Polish Phycological Society 2013: Konin-Mikorzyn

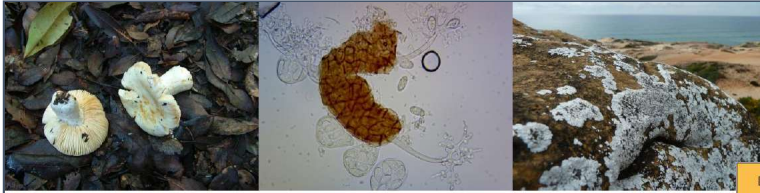


Medzinárodný lichenologický seminár 2015



domáci a zahraniční Bc., Mgr., PhD. študenti





APVV-15-210. DIPOFUNGI

Distribučný potenciál rôznych trofických skupín húb v Európe

Zodpovedný riešiteľ: Slavomír Adamčík

Ektomykorizné huby
Russula subsection
Maculatinae

Miroslav Caboň
Soňa Jančovičová
Slavomír Adamčík

Parazitické huby
Múčnatky na drevinách

Petra Mikušová
Katarína Pastirčáková
Katarína Adamčíková

Lichenizované huby
Rod Solenopsora a
Placyntium

Anna Bérešová
Zuzana Fačkovcová
Alica Hindáková
Alica Košúthová

Štatistické vyhodnotenie dát: Dušan Senko, Anna Bérešová, Zuzana Fačkovcová

Technická podpora: Gabriela Kozárová, Jana Krížanová

Disentangling identity of species of the genus *Taphrina* parasitizing herbaceous *Rosaceae*, with proposal of *Taphrina gei-montani* sp. nov.

Jana Petrydesová,¹ Jaromír Kučera,¹ Kamila Bacigálová,¹
Renáta Vadkertiová,² Ksenija Lopandic,³ Peter Vďačný⁴ and
Marek Slovák¹

***Taphrina gei-montani* Bacigálová & Petrydesová
sp. nov.**

Mycobank number: MB815677.

¹Institute of Botany, Slovak Acad

²Culture Collection of Yeasts, Insc
cesta 9, 845 38 Bratislava, Slov

³VIBT-Extremophile Center, Univ
Vienna, Austria

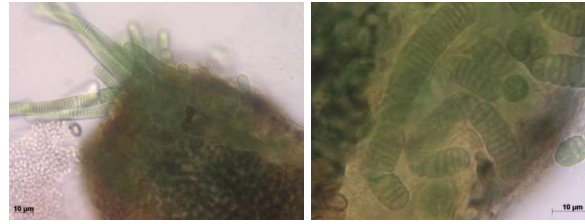
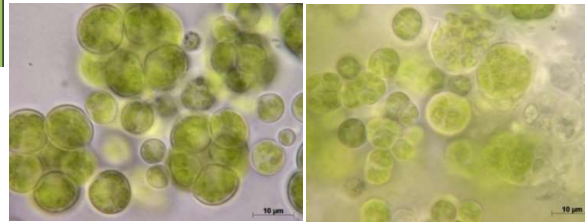
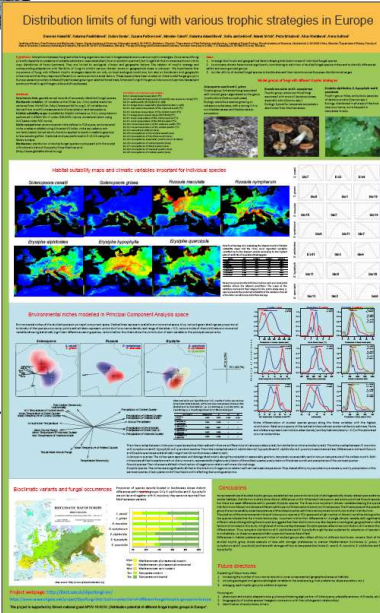
⁴Department of Zoology, Comeni
Slovakia

Five strains (CCY 058-007-001
and CCY 058-007-005) of a no
isolated from leaf tissues of *Geu
Mountains, Slovakia. Genetic an
substitutions in the ITS region ar
the genus *Taphrina* analysed hit
species of the genus *Taphrina* b
strains represent a novel species
The type strain is CCY 058-007
MB815677. The present study a
Taphrina parasitize the herbaceo
montanum and *Taphrina tormen**

Type. The holotype strain CCY 058-007-001^T was isolated from the infected host plant tissue of *Geum montanum* L. (herbarium specimen: SAV KI789, deposited in the SAV). Locality: Slovakia, Vysoké Tatry Mts, Dolina Zlomisk valley, Ladové pleso tarn, 24 July 2013; collectors: Kamila Bacigálová, Jana Petrydesová & Marek Slovák.

Etymology. The species epithet consists of two united Latin words in the genitive [*Ge-um*, -i, n and *montan-um*, -i, n], referring to the host species *Geum montanum*. Syllabification: *gei-montani*, N.L. gen. n. *gei-montani*, of *Geum montanum*. According to Article 60.9+Ex.26 of the *International Code of Nomenclature for algae, fungi, and plants*, the proposed species epithet must be hyphenated because it is constructed from two words each declined separately.

Description. Vegetative mycelium grows in the intercellular spaces of the host's parenchyma and forms networks beneath the epidermis and the cuticle. The mycelial cells, separated by layered septa, are variable in their length and shape. In the subcuticular layer of the infected tissue, the mycelial cells enlarge and give rise to ascogenous cells. These cells are ovoid in their early ontogenetic stages, subsequently become broader and form asci. Single-celled asci are developed irregularly inside the subcuticular layer and recline on the upper side of the leaf tissue (above the palisade parenchyma). The asci are 20–58×8–20 µm (most frequently 24–33×10–12 µm) in size, ovoid and with a narrow base attached to a short pedicel. Ascospores are formed in the early stage of ascus maturation. They are ovoid or spherical and 4–5×3–5 µm in size. The ascospores bud directly inside the asci and give rise to ovoid blastoconidia, being 2–3.5×2–3 µm in size. Afterwards, the asci increase in size and penetrate the cuticle.



fotobionty lišajníkov - kultivácia

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Slavomír Adamčík



Miroslav Caboň



Soňa Jančovičová



Katarína Adamčíková



Gabriela Kozárová



Michaela Caboňová



Vasilii Shapkin



Kamila Bacigálová

Laboratórium molekúlárnej ekológie a mykológie: hostujúci výskumníci a študenti



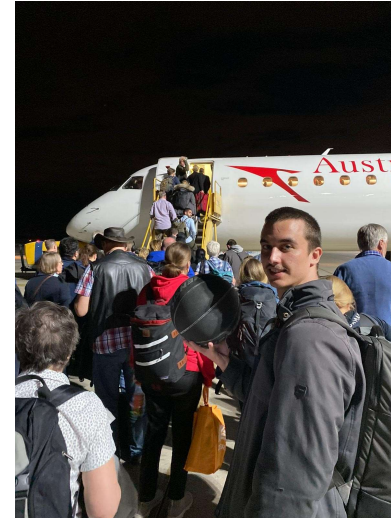
Chance Noffsinger



Cathrin Manz



Felix Hampe



Benjamin Avis



Munazza Kiran

spoločné WOS
publikácie



Michelle Vera Castellanos



Ruben de Lange



Junaid Khan



Susana Villa Laschuetza

Laboratórium molekulárnej ekológie a mykológie: publikácie

2019 Najdôležitejšie výsledky SAV: 2. oddelenie vied – základný výskum

Evolutionary mechanisms and taxonomy of the genus *Russula*

Slavomír Adamčík, Miroslav Caboň

APVV-15-0210

2016-2021 Najdôležitejšie výsledky CBRB SAV

Fungal Diversity (2019) 99:369–449
<https://doi.org/10.1007/s13225-019-00437-2>

ORIGINAL RESEARCH



The quest for a globally comprehensible *Russula* language

Slavomír Adamčík¹ · Brian Looney² · Miroslav Caboň¹ · Soňa Jančovičová³ · Katarína Adamčíková⁴ · Peter G. Avis⁵ · Magdalena Barajas⁵ · Rajendra P. Bhatt⁶ · Adriana Corrales⁷ · Kanad Das⁸ · Felix Hampe⁹ · Aniket Ghosh⁶ · Genevieve Gates¹⁰ · Ville Kälviäinen¹¹ · Abdul Nasir Khalid¹² · Munazza Kiran¹² · Ruben De Lange¹³ · Hyun Lee¹⁴ · Young Woon Lim¹⁴ · Alejandro Kong¹⁵ · Cathrin Manz¹⁶ · Clark Ovrebo¹⁷ · Malka Saba¹⁸ · Tero Taipale¹⁹ · Annemieke Verbeken¹³ · Komsit Wisitrasameewong¹⁴ · Bart Buyck²⁰



február 2018: medzinárodné pracovné stretnutie – spoločná publikácia odštartovala éru návštev kolegov zo zahraničia

Caboň et al. *IMA Fungus* 2019, 10:5
<https://doi.org/10.1186/s43008-019-0003-9>



RESEARCH

Open Access



Phylogenetic study documents different speciation mechanisms within the *Russula globispora* lineage in boreal and arctic environments of the Northern Hemisphere

Miroslav Caboň¹, Guo-Jie Li², Malka Saba^{3,4,8}, Miroslav Kolařík⁵, Soňa Jančovičová⁶, Abdul Nasir Khalid⁴, Pierre-Arthur Moreau⁷, Hua-An Wen², Donald H. Pfister³ and Slavomír Adamčík¹

IMA Fungus



ELSEVIER

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Gfö Ecological Society of Germany,
Austria and Switzerland

Basic and Applied Ecology 52 (2021) 24–37

Basic and
Applied Ecology

www.elsevier.com/locate/baue

Mulching has negative impact on fungal and plant diversity in Slovak oligotrophic grasslands

Miroslav Caboň^{a,*}, Dobromil Galváněk^a, Andrew P. Detheridge^b, Gareth W. Griffith^b, Silvia Maráková^a, Slavomír Adamčík^a



Cena SAV za rok 2018 v kategórii "Špičková časopisecká publikácia SAV"

Persoonia 41, 2018: 18–38
www.ingentaconnect.com/content/nhn/pimj

RESEARCH ARTICLE

ISSN (Online) 1878-9080
<https://doi.org/10.3767/persoonia.2018.41.02>



Towards an understanding of the genus *Glutinoglossum* with emphasis on the *Glutinoglossum glutinosum* species complex (Geoglossaceae, Ascomycota)

A.G. Fedosova¹, E.S. Popov¹, P. Lizoň², V. Kučera²

Key words
earth tongues
key
morphology
new species
systematics
specification

Abstract *Glutinoglossum* is one of the earth tongue genera with viscid or glutinous ascocarps. Based on morphology and ITS1-5.8S-ITS2, nrLSU and *tef1* sequence data, seven new species are described: *G. circinatum*, *G. lumbricale*, *G. orientale*, *G. peregrinans*, *G. proliferatum*, *G. pseudoglutinosum*, and *G. triseptatum*. The lectotypes for *Geoglossum glutinosum* var. *lubricum* and for *Geoglossum glabrum* var. *majus* as well as the epitype for *Glutinoglossum glutinosum* are designated. The comprehensive morphological study of *G. heptaseptatum* resulted in the discovery of ascospores germinating by conidia inside the asci, which is first noted for *Glutinoglossum* species. The status of *Cibalocoryne* is discussed.



Viktor Kučera

veľké spolupráce

Fungal Planet description sheets: 1112–1181. Persoonia, 2020, vol. 45, p. 251- 409. (2019: 8.227 - IF, Q1 - JCR, 4.256 - SJR, Q1 - SJR).

Fungal Planet description sheets: 1042-1111. Persoonia, 2020, vol. 44, p. 301-459. (2019: 8.227 - IF, Q1 - JCR, 4.256 - SJR, Q1 - SJR).

Fungal Planet description sheets: 625-715. Persoonia, 2017, vol. 39, p. 270-467. (7.511 - IF2016).

The lab of Plant and Fungal Evolution and Biogeography



Lab Alliance



Daphne arbuscula

Solenopsis cesatii

Living on the edge: legacy of environmental extremes

How rock-dwelling species cut through challenging rocky environment to maximize their fitness and long-term survival?

Which adaptations and/or symbiotic relationships facilitate their persistence in such inhospitable habitats?



Anna Bérešová (Guttová)



Zuzana Fačkovcová



Jaromír Kučera
Marek Slovák



Dušan Senko

spoločné WOS publikácie

Hostujúci výskumníci



Valeriy Darmostuk



Luca Paoli



Silvana Munzi, Laura Concostrina Zubiri



Contents lists available at ScienceDirect

Molecular Phylogenetics and Evolution

journal homepage: www.elsevier.com/locate/ympev



Spatio-temporal formation of the genetic diversity in the Mediterranean dwelling lichen during the Neogene and Quaternary epochs

Zuzana Fačková^{a,*}, Marek Slovák^{a,b}, Peter Vďačný^c, Andrea Melichárková^a, Judita Zozomová-Lihová^a, Anna Guttová^a

The Lichenologist 51(1): 75–88 (2019) © British Lichen Society, 2018
doi:10.1017/S0024282918000543

Ecological specialization of lichen congeners with a strong link to Mediterranean-type climate: a case study of the genus *Solenopsora* in the Apennine Peninsula

Anna GUTTOVÁ, Zuzana FAČKOVCOVÁ, Stefano MARTELLOS, Luca PAOLI, Silvana MUNZI, Elena PITTAO and Silvia ONGARO

Preslia 89: 63–85, 2017

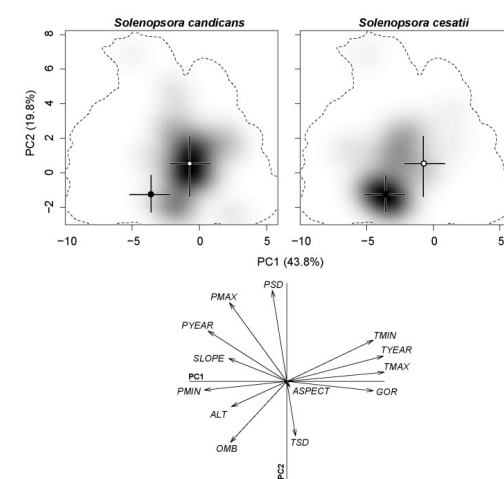
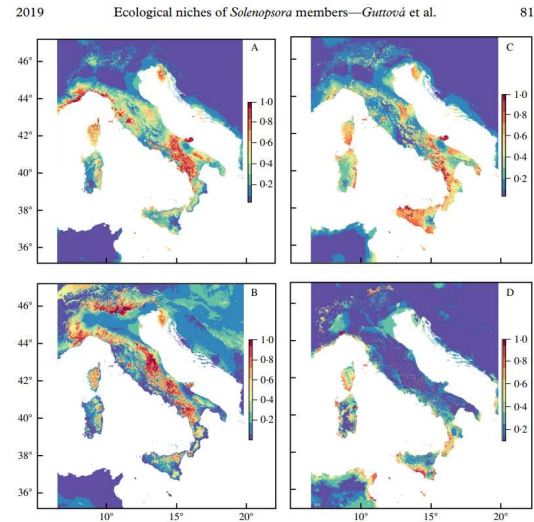
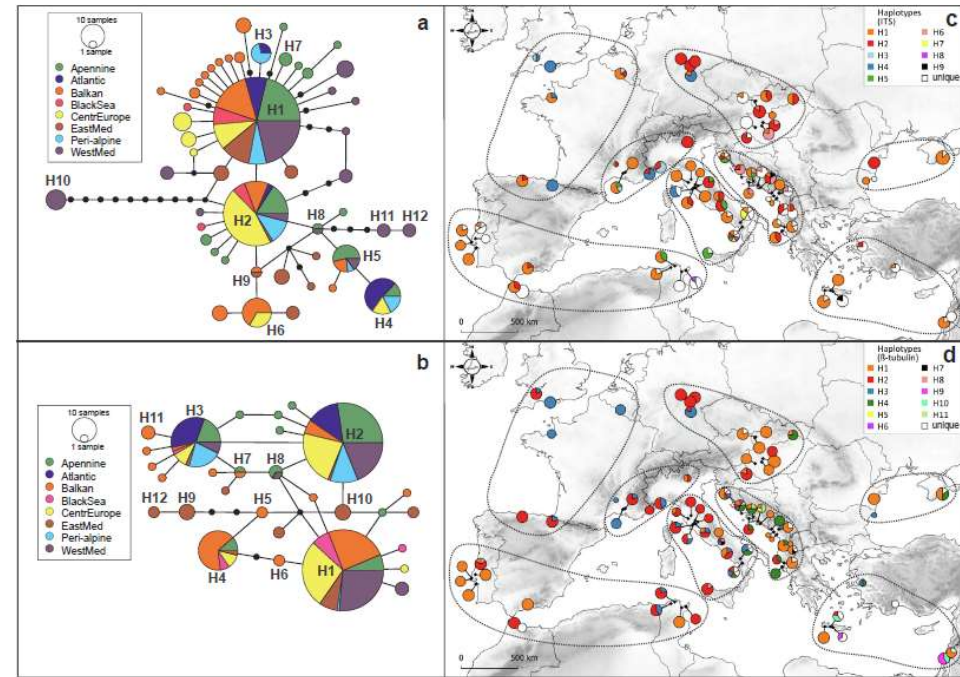
63

Ecological niche conservatism shapes the distributions of lichens: geographical segregation does not reflect ecological differentiation

Ekologický konzervatismus nik určuje rozšíření lišejníků – geografická segregace neodpovídá ekologické diferenciaci

Zuzana Fačková¹, Dušan Senko¹, Marek Svitok² & Anna Guttová¹

¹Institute of Botany, Plant Science and Biodiversity Centre, Slovak Academy of Sciences, Dúbravská cesta 9, SK-845 23 Bratislava, Slovakia, e-mail: zuzana.fackovcova@savba.sk, dušan.senko@savba.sk, anna.guttova@savba.sk; ²Technical University in Zvolen, Faculty of Ecology and Environmental Sciences, T. G. Masaryka 24, SK-960 53 Zvolen, Slovakia, e-mail: svitok@tuzvo.sk



pedagogické aktivity

Album Na Tilgnerke realizujeme medzinárodný výskum lišajníkov



Používateľ **Biologia na Tilgnerke** pridal 5 nových fotiek.
18. december 2017 · 🌐

Dňa 5. októbra 2017 sa na našej škole uskutočnila jedna z najzaujímavejších prednášok akú sme mali kedy česť počuť. Hlavnou témou boli lišajníky a prezentovala ich Mgr. Anna Béréšová, PhD., ktorá je riaditeľkou Centra biológie rastlín a biodiverzity SAV. Prednáška bola zameraná na lišajníky - aby sme sa o nich dozvedeli čo najviac informácií zábavným a náučným spôsobom. Lišajníky sme už všetci videli, na kóre stromov, na pôde, na skalách. Plnia v prírode množstvo užitočných f... [Zobraziť viac](#)



👍❤️ Vy, Dita Kresáňová, Katka Kresáňová a 9 ďalších

Komentáre: 2 1 zdieľanie

Úspešne ukončení interní doktorandi:

Mgr. Viera Slezáková – Orthová

Mgr. Katarína Kresáňová

Mgr. Viktor Kučera

Mgr. Petra Mikušová

Mgr. Jana Petrýdesová

Mgr. Zuzana Fačkovcová

Mgr. Miroslav Caboň



Article

Evernia Goes to School: Bioaccumulation of Heavy Metals and Photosynthetic Performance in Lichen Transplants Exposed Indoors and Outdoors in Public and Private Environments

Luca Paoli ¹, Zuzana Fačkovcová ², Anna Guttová ², Caterina Maccelli ³, Katarína Kresáňová ⁴ and Stefano Loppi ^{3,*}

¹ Department of Biology, University of Pisa, Via L. Ghini, 13-56126 Pisa, Italy; luca.paoli@unipi.it

² Plant Science and Biodiversity Centre, Slovak Academy of Sciences, Dúbravská Cesta, 9-84523 Bratislava, Slovakia; zuzana.fackovcova@savba.sk (Z.F.); anna.beresova@savba.sk (A.G.)

³ Department of Life Sciences, University of Siena, Via PA Mattioli, 4-53100 Siena, Italy; caterina.maccelli@student.unisi.it

⁴ Spojená škola Tilgnerova, 714/14 Karlova Ves, 84105 Bratislava, Slovakia; kaliakatka@gmail.com

* Correspondence: stefano.loppi@unisi.it; Tel.: +39-0577-233-740

Received: 12 April 2019; Accepted: 8 May 2019; Published: 13 May 2019





huby – lišajníky - riasy – cyanobaktérie: zdroj dôležitých otázok pre udržateľné využívanie životného prostredia

pracovné skupiny: príležitosť pre nových kolegov na vzdelávanie, profesijný a osobný rast

