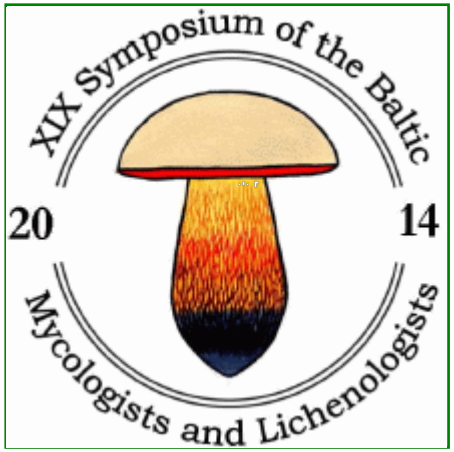
PROGRAMME AND ABSTRACTS

22–26 September, 2014

XIX SYMPOSIUM OF THE BALTIC MYCOLOGISTS AND LICHENOLOGISTS



Skede, LATVIA, Sep 22–26, 2014

PRINCIPAL SUPPORTING ORGANIZATIONS

Latvian Mycological Society | Latvian Museum of Natural History | Latvia University of Agriculture | University of Latvia | Latvian State Forest Research Institute

OTHER SUPPORTING ORGANIZATIONS

Programme

as on September 22, 2014

Click to go to:	Mo, Sep 22	Tu, Sep 23	We, Sep 24	Th, Sep 25	Fr, Sep 26
Click to go to:	Session 1	Session 2	Session 3	Session 4	Posters1,2

Monday, September 22

14.00	**Participant arrival in Riga**, Latvian Museum of Natural History (Kr.Barona Str. 4)
15.00	**Departure from Riga** to Mežmāja, Šķēde
18.00	**Registration**
19.00	**Get-together party**

Tuesday, September 23

16.00 -16.15	Jurga Motiejūnaitė, Gražina Adamonytė, Mindaugas Dagys, Reda Iršėnaitė, Tatjana Iznova, Audrius Kačergius, Jonas Kasparavičius, Ernestas Kutorga, Svetlana Markovskaja, Dalytė Matulevičiūtė, Dalia Pečiulytė, Ričardas Taraškevičius. Fungi under eutrophication: a case of great cormorant colony in pine forest.
16.15 -16.30	Sandrina A. Heleno, Isabel C.F.R. Ferreira, Ana Ćirić, Jasmina Glamočlija, Anabela Martins, Maria João R.P. Queiroz, Marina Soković. *Coprinopsis atramentaria* extract, organic acids and synthesized methylated derivatives as antibacterial and antifungal agents.
16.30 -17.30	**Poster Session**
16.30	Yuli Shatz (MedPro Nutraceuticals). *Phallus impudicus* properties and its use.
18.00	**Dinner**

Wednesday, September 24

08.30 -09.00	**Breakfast**	
09.00 -13.00	**Field trip**	
13.00 -14.00	**Lunch**	
14.00 -16.00	**Session 4**	**Co-chairs: Ieva Druva-Lūsīte, Rossitza Rodeva**
14.00 -14.15	Rasa Buožytė, Gražina Adamonytė, Reda Iršėnaitė, Jonas Kasparavičius, Elena Klyukina, Ernestas Kutorga, Svetlana Markovskaja, Jurga Motiejūnaitė. The experiment of nitrogen addition and artificial drought in scots pine stand: an effect on fungal communities	
14.15 -14.30	Leho Tedersoo and The Fungal Macroecology Consortium. Global Biodiversity of Soil Fungi and the Potential Effect of Climate Change	
14.30 -14.45	Ieva Druva-Lūsīte, Daina Feldmane, Valentīna Pole, Imants Missa, Edgars Rubauskis. Seasonal activity of arbuscular mycorrhiza into sour cherries (*Prunus mahaleb*) roots.	
14.45 -15.00	S. Deshaware, O. Pastinen, H. Ojamo, Salem Shamekh. Truffle growth and cultivation: media optimization and investigation of biomolecules.	
15.00 -15.15	Rossitza Rodeva, Z. Stoyanova, S. Nedyalkova. *Davidiella tassiana* as a component of leaf spotting disease complex on durum wheat.	
15.15 -15.30	Julija Volkova, Lelde Grantina-Ievina. Identification of main causal agents of apple rot before harvest and during storage.	

asociated fungi on Norway spruce in declining Norway spruce stands in Latvia.
Jūratė Repečkienė, Jurgita Švedienė, Algimantas Paškevičius, Rūta Tekorienė, Vita Raudonienė, Eglė Gudeliūnaitė, Pranas Baltrėnas, Alvydas Zagorskis, Antonas Misevičius. Fungi, yeasts and bacteria in plate-type air treatment biofilter during filtration of volatile compounds.
Alvydas Zagorskis, Antonas Misevičius. Fungi, yeasts and bacteria in plate-type air treatment biofilter during filtration of volatile compounds.
Jurgita Švedienė, Vita Raudonienė, Jūratė Repečkienė, Algimantas Paškevičius, Rūta Tekorienė, Eglė Gudeliūnaitė, Edita Baltrėnaitė. The change of microorganisms quantity in biofilter with pine biocarbon.
Svetlana Markovskaja, Vitalij Novickij, Audrius Grainys, Jurij Novickij. Susceptibility
of water molds to high intensity magnetic field treatment.
Ângela Fernandes, Amilcar L. Antonio, João C.M. Barreira, M. Beatriz P.P. Oliveira, Anabela Martins, Isabel C.F.R. Ferreira. Gamma irradiation preserves the nutritional profile of wild *Boletus edulis* Bull.:FR.
Triin Varvas, Kertu Kais. Fungal endophytes from leaves of three ericaceous plants in Estonia.
Lauma Brūna, Natālija Arhipova, Tālis Gaitnieks. Species richness of wood-inhabiting fungi on logs and stumps of Norway spruce infected by *Heterobasidion parviporum*.
Astra Zaļuma, Lauma Brūna, Tālis Gaitnieks. Distribution of Heterobasidion spp. and Armillaria spp. in young pine forest stands in Latvia, *one-year observations*.
Jūratė Ramanauskienė, Irena Gaurilčikienė, Rūta Česnulevičienė. Effects of eyespot severity on the productivity of winter wheat.
Biruta Bankina, Gunita Bimšteine, Antons Ruža, Ingrīda Neusa-Luca, Ance Roga, Dāvids Fridmanis. *Oculimacula spp.* – important pathogen of wheat crown rot.
Karina Stumbriene, Skaidre Suproniene, Povilas Svegzda, Simonas Sakalauskas. Changes in *Fusarium spp.* species composition from Lithuanian wheat in year 2005-2013.
Olga Treikale, Zane Vigule, Brigita Javoiša, Jeļena Pugačova. The pathogenic mycoflora of cereals in Latvia
Jeļena Pugačova, Brigita Javoiša, Olga Treikale. Control of *Lophodermium seditiosum* on *Pinus sylvestris* seedlings in Latvian forest nursery.
Jūlija Volkova. The fungal flora on cultivated highbush blueberries in Latvia differs from what is found on native *Vaccinium* species.
Inga Moročko-Bičevska, Jamshid Fatehi, Olga Sokolova. Diversity of Diaporthalean fungi on *Rubus* and *Fragaria* hosts.
Olga Sokolova, Inga Moročko-Bičevska, Jamshid Fatehi. Diversity of pear pathogen *Venturia pyrina*.

Website constructed by Edgars Mukins, 2014

GAMMA IRRADIATION PRESERVES THE NUTRITIONAL PROFILE OF WILD BOLETUS EDULIS BULL.: FR.

Ângela Fernandes[1, 2], Amilcar L. Antonio[1, 3, 4], João C.M. Barreira[1, 2], M. Beatriz P.P. Oliveira[2], Anabela Martins[1], Isabel C.F.R. Ferreira[1]

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2. REQUIMTE/ Depto. de Ciências Químicas, Faculdade de Farmácia, Universidade do Porto, Portugal.
3. IST/ITN, Instituto Tecnológico e Nuclear, Sacavém, Portugal.
4. Departamento de Física Fundamental, Universidade de Salamanca, Spain

Mushrooms contain about 90% water, which leads to a faster deterioration due to senescence, browning, water loss and microbial attack. Wild species are characterized for their seasonality, demanding the application of suitable preservation technologies. Irradiation is recognized as a safe and effective method for conservation, being used worldwide to extend the shelf-life of raw foods]. The present work reports the effects of gamma irradiation on the chemical composition of *Boletus edulis* Bull.:Fr. Wild samples. The fruiting bodies were collected in Trás-os-Montes (Northeast of Portugal) in November 2012. The irradiation was performed in experimental equipment with four 60Co sources, at 1 and 2 kGy. Proximate composition was evaluated by official procedures, fatty acids were analyzed by gas-chromatography coupled to flame ionization detection (GC-FID), while sugars and tocopherols were determined by high performance liquid chromatography (HPLC) coupled to refraction index (RI) and fluorescence detectors, respectively.

The nutritional profiles (proximate composition) were not affected in high extension. Fatty acids and sugars were slightly affected, decreasing with increasing doses. On the other hand, there has been a preservation of tocopherols content with 1 kGy dose. Nevertheless, despite these detected differences, the results of nutritional parameters (the most relevant in terms of mushroom acceptability by consumers) were less affected. Gamma irradiation, up to the doses used in this work, might represent a useful technology for mushrooms conservation.

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