



Slovak University of Agriculture in Nitra

Faculty of Agrobiology and Food Resources

Faculty of Biotechnology and Food Sciences

Faculty of Horticulture and Landscape Engineering



Co-funded by the
European Union

PROGRAMME

Scientific Conference of PhD Students

with international participation

10th November 2022

(in person event)

Conference programme

- 07.45 – 08.30** Registration
- 08.30 – 08.50** Opening ceremony, opening remarks (Lecture Hall Z-01)
- 09.00 – 11.30** Parallel sessions
- 12.00 – 12.30** Closing ceremony (Lecture Hall Z-01)
Lunch
- 13.30 –** Departure by bus (from AgroBioTech Research Centre)
- 14.00 – 16.00** Social event (Oponice)
- 16.30** Estimated arrival to Nitra

Section 1	Animal Production, Technology, Quality and Safety of Raw Materials and Foodstuffs of Animal Origin, Biotechnology, Applied and Molecular Biology
Venue	T Pavilion, Lecture Hall AT-33, 3 rd floor

Committee

Chairman: prof. RNDr. Martin Bačkor, DrSc.

Member: doc. Mgr. Peter Juhás, PhD.

Member: doc. Ing. Jiřina Zemanová, PhD.

Organizer

Ing. Michal Lenický

Ing. Michal Mihaľ

9.00 – 10.00

Jaroslav DÓBI*, Klára VAVRIŠÍNOVÁ

The beef quality of imported French Charolais and Aubrac breeds raised with the same conditions

Slovak University of Agriculture in Nitra, Institute of Animal Husbandry (FAFR)

Bence IVÁNOVICS*

Characterization of non-lethal aflatoxin B1 exposure-induced inflammation and immune modulation in zebrafish embryos

Hungarian University of Agriculture and Life Sciences, Gödöllő, Hungary

Lukáš JURČAGA*, Marek BOBKO, Andrea MESÁROŠOVÁ, Alica BOBKOVÁ, Alžbeta DEMIANOVÁ, Katarína POLÁKOVÁ

Pomegranate (*Punica granatum*) as a source of natural antioxidant for meat products

Slovak University of Agriculture in Nitra, Institute of Food Sciences (FBFS)

Xinyue LIANG*

Chronic effects of carbamazepine, progesterone and their mixtures at environmentally relevant concentrations on biochemical markers of zebrafish (*Danio rerio*)

Hungarian University of Agriculture and Life Sciences, Gödöllő, Hungary

10.00 – 10.15 **coffee break**

10.15 – 11.15

Viktória ZACHAR LOVÁSZOVÁ*

Microbiological quality of bee products

Slovak University of Agriculture in Nitra, Institute of Food Sciences (FBFS)

Olha BALYTSKA, Michal MIHAL, Simona BALDOVSKA, Ladislav KOHUT, Adriana KOLESAROVA

In vitro effects of gallic acid on human ovarian granulosa cells

Slovak University of Agriculture in Nitra, Institute of Applied Biology (FBFS)

Eva ŠEBOVÁ*, Věra HEDVIČÁKOVÁ, Věra SOVKOVÁ, Eva FILOVÁ

A new approach to anti-osteoporotic drug testing

Institute of Experimental Medicine CAS, Prague, Czech Republic

Tomáš VLČKO*, Piotr KULAWIK, Marzena ZAJĄC, Magda JANIK, Wondyfraw TADELE, Ewelina JAMRÓZ, Vedran MILOSAVLJEVIĆ

Antimicrobial effect of edible coatings enriched with bioactive peptides applied to pork meat stored under freezer conditions

Slovak University of Agriculture in Nitra, Institute of Food Sciences (FBFS)

Section 2.1 Plant Production and Technology, Quality and Safety of Raw Materials and Foodstuffs of Plant Origin

Venue Pavilion A, Conference room AA – 32, 3rd floor

Committee

Chairman: doc. Ing. Oleg Paulen, PhD.

Member: doc. Ing. Ľuboš Vozár, PhD.

Member: doc. Ing. Ján Mareček, PhD.

Organizer

Ing. Júlia Fabianová

Ing. Monika Ňorbová

9.00 – 10.00

Júlia FABIANOVÁ*, Miroslav ŠLOSÁR, Erika KORPÁŠOVÁ, Ivana TIRDIĽOVÁ

The influence of the selected soil biostimulant on the yield potential and quality of radish (*Raphanus sativus* L. var. *major*)

Slovak University of Agriculture in Nitra, Institute of Horticulture (FHLE)

Nikola KOTLÁROVÁ*

Morphometric analysis of fruits of selected representatives of the genus *Prunus* in the Liptovská kotlina basin

Slovak University of Agriculture in Nitra, Institute of Plant and Environmental Sciences (FAFR)

Martina KUNKELOVÁ* – Juraj SAKÁČ*– Jakub SITKEY*

Labile forms of organic carbon in garden ecosystem

Slovak University of Agriculture in Nitra, Institute of Agronomic Sciences (FAFR)

Monika ŇORBOVÁ*, Alena VOLLMANNOVÁ, Hana FRANKOVÁ, Silvia FEDORKOVÁ, Natália ČERYOVÁ

The content of vitamin C in selected types of fruit

Slovak University of Agriculture in Nitra, Institute of Food Sciences (FBFS)

10.00 – 10.15 **coffee break**

10.15 – 11.30

Katarína POLÁKOVÁ*, Alica BOBKOVÁ, Alžbeta DEMIANOVÁ, Marek BOBKO, Ľubomír BELEJ, Lukáš JURČAGA, Andrea MESÁROŠOVÁ, Miroslav ŽIAK, Judita LIDIKOVÁ

Effect of different post-harvest processing on the sensory profile of *Coffea Arabica*
Slovak University of Agriculture in Nitra, Institute of Food Sciences (FBFS)

Nela PRUSOVA*, Adam BEHNER, Zbynek DZUMAN, Jana HAJŠLOVA, Milena STRANSKA

Quantification of conjugated type A trichothecenes in cereals using immuno-affinity clean-up and enzymatic hydrolysis

University of Chemistry and Technology, Prague

Oliver OBROČNÍK*

Quantitative analysis of wheat growth and photosynthetic activity under drought conditions

Slovak University of Agriculture in Nitra, Institute of Landscape Engineering (FHLE)

Ali ZESHAN*, Ľudovít CAGÁŇ, Aqsa ABBAS, Ali JABRAN

Phytotoxic effects of essential oils on plants under laboratory conditions

Slovak University of Agriculture in Nitra, Institute of Agronomic Sciences (FAFR)

Miroslav ŽIAK*, Patrícia JOANIDIS, Ľubomír BELEJ, Katarína POLÁKOVÁ, Alžbeta DEMIANOVÁ, Alica BOBKOVÁ

Effect of vacuum frying on the sensory attributes of potato chips from different varieties

Slovak University of Agriculture in Nitra, Institute of Food Sciences (FBFS)

Patrícia MÁČAJOVÁ*, Veronika KRCHŇAVÁ

Tackling common ragweed with herbicides in sunflower, soybean, and corn

Slovak University of Agriculture in Nitra, Institute of Agronomic Sciences (FAFR)

Section 2.2	Plant Production and Technology, Quality and Safety of Raw Materials and Foodstuffs of Plant Origin
Venue	Pavilion CH, Conference room AC – 1-19, 1 st floor

Committee

Chairman: prof. RNDr. Alžbeta Hegedúsová, PhD.

Member: Ing. Dávid Ernst, Ing.Paed.IGIP, PhD.

Member: prof. Ing. Katarína Ražná, PhD.

Member: doc. Ing. Martina Fikselová, PhD.

Organizer

Ing. Natália Čeryová

Ing. Adam Kováčik

9.00 – 10.00

Adam BEHNER*, Nela PRUSOVA, Zbynek DZUMAN, Jana HAJŠLOVA, Milena STRANSKA

Analytical strategy for identification of unknown transformation products of mycotoxins after their decontamination by Pulsed Electric Field technology

University of Chemistry and Technology, Prague

Simona ČERTEKOVÁ*

Genomic screening of *Lavandula* spp. depending on the climatic conditions of Slovakia

Slovak University of Agriculture in Nitra, Institute of Plant and Environmental Sciences (FAFR)

Natália ČERYOVÁ*, Judita LIDIKOVÁ, Eduard PINTÉR, Marek ŠNIRC, Hana FRANKOVÁ, Monika ŇORBOVÁ, Silvia FEDORKOVÁ

Antioxidant activity and bioactive compounds of garlic (*Allium sativum* L.) cultivars

Slovak University of Agriculture in Nitra, Institute of Food Sciences (FBFS)

Alžbeta DEMIANOVÁ*, Alica BOBKOVÁ, Katarína POLÁKOVÁ, Lukáš JURČAGA, Marek BOBKO, Andrea MESÁROŠOVÁ, Ľubomír BELEJ

Decaffeination and heat treatment and their effect on the content of volatiles in *Coffea arabica*

Slovak University of Agriculture in Nitra, Institute of Food Sciences (FBFS)

10.00 – 10.15 **coffee break**

10.15 – 11.30

Silvia FARKASOVÁ*

Application of in silico and PCR approach in the screening of allergens in spring wheat (*Triticum aestivum* L.)

Slovak University of Agriculture in Nitra, Institute of Plant and Environmental Sciences (FAFR)

Angéla HODOSY VARGAOVÁ*

Study of the effect of in vitro induced nutritional stress on linseed (*Linum usitatissimum* L.) genomic polymorphism by miRNA-based markers in the context of lignans content

Slovak University of Agriculture in Nitra, Institute of Plant and Environmental Sciences (FAFR)

Lucia KLONGOVÁ*

Genetic diversity of peanut (*Arachis hypogaea* L.) Employing CDDP Markers

Slovak University of Agriculture in Nitra, Institute of Plant and Environmental Sciences (FAFR)

Adam KOVÁČIK*

Variability of the presence of homologues of profilin and vicilin in legumes

Slovak University of Agriculture in Nitra, Institute of Plant and Environmental Sciences (FAFR)

Dagmar MORAVČÍKOVÁ*

Analysis of genomic variability of citrus PR-10 allergen homologues

Slovak University of Agriculture in Nitra, Institute of Plant and Environmental Sciences (FAFR)

Section 3	Multifunctional Agriculture, Environment, Landscape Architecture and Rural Development
Venue	Pavilion Z, Conference room AZ-12, 1 st floor

Committee

Chairman: doc. Ing. Ľuboš Moravčík, PhD.

Member: doc. RNDr. Jana Urminská, PhD.

Member: Ing. Joanna Korczyk-Szabó, PhD.

Organizer

Ing. Dávid Dežerický

Ing. Katarína Slobodníková

9.00 – 10.00

Katarína JANKECHOVÁ*, Miroslav ČIBIK

Reminiscence of the first meeting – intervention in public space

Institute of Literary and Artistic Communication, UKF in Nitra, Slovakia

Kostiantyn SOKOLCHUK*

The importance of the hydrological measurement network for the management of river basins in urbanized areas (on the example of Kyiv)

Institute of Hydrology SAS, Bratislava, Slovakia

Andrej SEMAN*

Ichthyological surveys carried out for the purpose of assessing the ecological status of the water bodies in 2022

Water research institute, Department of hydrobiology and microbiology, Bratislava, Slovakia

Katarína SLOBODNÍKOVÁ*

Co-designing open spaces with local communities

Slovak University of Agriculture in Nitra, Institute of Landscape Architecture (FHLE)

10.00 – 10.15 **coffee break**

10.15 – 11.00

Kateryna SURAI*, Kostiantyn SOKOLCHUK

Assessment of climate change using GIS methods on the example of the Siverskyi Donets river basin (within Ukraine)

Ukrainian Hydrometeorological Institute, NASU (UHMI), Kyiv, Ukraine

Mubarak Abdelrahman Salim EISA*, Mohamed A SHEBL, Ľudovít CAGÁŇ, Robert CHLEBO, Olha MATSERA

Bee pollinators (Hymenoptera: Apoidea) diversity in Nitra city, Slovakia, during summer season

Slovak University of Agriculture in Nitra, Institute of Agronomic Sciences (FAFR)

Tímea ŽOLOBANIČOVÁ*, Roberta ŠTĚPÁNKOVÁ

Lost Places in the City

Slovak University of Agriculture in Nitra, Institute of Landscape Architecture (FHLE)

Natália ČMIKOVÁ*, Lucia GALOVIČOVÁ

Determination of antimicrobial activity of water seaweeds extracts

Slovak University of Agriculture in Nitra, Institute of Horticulture (FHLE)

Lucia GALOVIČOVÁ*, Natália ČMIKOVÁ, Ivana TIMORACKÁ, Patrik MIHALA, Georg Richard JENCŠÖ

Antimicrobial activity of *Cinnamomum camphora* essential oil

Slovak University of Agriculture in Nitra, Institute of Horticulture (FHLE)

Veronika VALKOVÁ*, Hana ĎÚRANOVÁ, Lucia GALOVIČOVÁ, Miroslava KAČÁNIOVÁ

Antifungal activity of *Mentha citrata* essential oil against selected *Penicillium* fungi tested in both in vitro and the vapor phase conditions

Slovak University of Agriculture in Nitra, Institute of Horticulture (FHLE)

Section 4 Nutrition

Venue Pavilion T, Conference room 15, 4th floor

Committee

Chairman: prof. Ing. Miroslav Juráček, PhD.

Member: Ing. Jana Kopčeková, PhD.

Member: Ing. Petra Lenártová, PhD.

Organizer

Ing. Marie Hamadová

Ing. Dušan Solár

9.00 – 10.00

Simona ALMÁŠIOVÁ*, Róbert TOMAN, Martina PŠENKOVÁ, Vladimír TANČIN, Šimon MIKLÁŠ

Concentrations of elements in goat milk from organic and conventional farm
Slovak University of Agriculture in Nitra, Institute of Animal Husbandry (FAFR)

Maroš BIHARI *, Marta HABÁNOVÁ

Health benefits of products containing bioactive substances in a selected group of obese women
Slovak University of Agriculture in Nitra, Institute of Nutrition and Genomics (FAFR)

Maria JOLJI*, Tamás KISS

The development of vegan protein bars suitable for elderly nutrition
University of Debrecen, Hungary

Mária KALÚZOVÁ*, Miroslav JURÁČEK

The concentration of mycotoxins in maize silages with the addition of additives
Slovak University of Agriculture in Nitra, Institute of Nutrition and Genomics (FAFR)

10.00 – 10.15 **coffee break**

10.15 – 11.15

Mária KAPUSNIAKOVÁ*, Milan ŠIMKO

Analysis of dairy nutrition in selected agricultural cooperative
Slovak University of Agriculture in Nitra, Institute of Nutrition and Genomics (FAFR)

Karolina ŁANOSZKA*, Nimasha RANASINGHE, Renata KOSTOGRYS

Effect of dietary modification on lipid profile in ApoE/LDLr^{-/-} mice

University of Agriculture in Krakow, Poland

Mária LEVICKÁ*

Bioactive substances in the prevention and treatment of human diseases

Slovak University of Agriculture in Nitra, Institute of Horticulture (FHLE)

Nimasha RANASINGHE*, Karolina ŁANOSZKA, Renata B. KOSTOGRYS

A new potential therapeutic target for the prevention of atherosclerosis

University of Agriculture in Krakow, Poland

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