

THE MINISTRY OF EDUCATION
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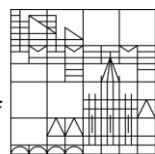
INTERNATIONAL SYMPOSIUM RESEARCH AND EDUCATION IN INNOVATION ERA

5th Edition

November 06-07, 2014, Arad

ESCORENA European System of Cooperative Research Networks in Agriculture

University of
Konstanz



CHEMISTRY AND APPLICATION FIELDS

THURSDAY, November 06, 2014

15.00-16.00 Room S27 - PLENARY SESSION

Chair: CS I Cecilia SÎRGHIE, PhD

Prof. Carmen G. BOERIU, PhD

15.00-15.20 PL 1 BIOCATALYTIC ROUTES FOR HIGH VALUE CHEMICALS FROM RENEWABLE RESOURCES

Carmen G. BOERIU

Wageningen UR Food and Biobased Research, Subdivision Biobased Products, Wageningen, The Nederlands

15.20-15.40 PL 2 CHARACTERISATION OF FOLATE-BASED NANOPARTICLES

Florentina-Daniela MUNTEANU,^{1,2} Artur CAVACO-PAULO³

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³*University of MINHO, Departamento de Engenharia Biologica (DEB), Portugal*

15.40-16.00 PL 3 VOLATILE ORGANIC COMPOUNDS EMITTED BY PLANTS DETERMINATION USING NEW GAS CHROMATOGRAPHY MASS-SPECTROMETRY METHODS

Lucian COPOLOVICI^{1,2}, Astrid KÄNNASTE³, Andreea PAG¹, Daniel TOMESCU¹, Adina BODESCU^{1,2}, Ülo NIINEMETS³

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16.00-16.15 Coffee break

16.15-17.45 Room S27 - ORAL PRESENTATIONS

Chair: Prof. Florentina-Daniela MUNTEANU, PhD

Prof. Alina Diana ZAMFIR, PhD

16.15-16.30 OP 1 SPECTRAL CHARACTERIZATION AND DETERMINATION OF TOTAL ANTIOXIDANT CAPACITY OF BURDOCK EXTRACTS USING CHEMILUMINESCENCE TECHNIQUE

Anca Mihaela DICU, Simona PERTA CRISAN

Faculty of Food Engineering, Tourism and Environmental Protection, “Aurel Vlaicu” University, 2 Elena Dragoi St., 310330, Arad, Romania

16.30-16.45 OP 2 EVALUATION OF HEMP SHIVES USAGE FOR BIOREMEDIATION OF SALINITY SOILS

Cecilia SÎRGHIE^{1,2}, Florin CRIȘAN¹, Lucian COPOLOVICI^{1,2}

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16.45-17.00 OP 3 VOLATILE ORGANIC COMPOUND EMISSIONS FROM PEDUNCULATE OAK UNDER ABIOTIC AND BIOTIC STRESS

Andreea Ioana PAG¹, Daniel TOMESCU¹, Astrid KÄNNASTE², Adina BODESCU^{1,3}, Ülo NIINEMETS², Lucian COPOLOVICI^{1,3}

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17.30-17.45 OP 4 ATOMIC FORCE MICROCOPY

Dana M. COPOLOVICI^{1,2}, Cecilia SÎRGHIE^{1,2}

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POSTER SESSION: 17.45-18.15

P 1 ANALYSING THE USAGE DEGREE OF ECO-LABELED LOCAL DETERGENTS

Eugenia TIGAN, Monica LUNGU

Faculty of Food Engineering, Tourism and Environmental Protection, "Aurel Vlaicu" University, 2 Elena Dragoi St., 310330, Arad, Romania

P 2 THE YELLOW WATERMELON WITH HORNS (*CUCUMIS METULIFERUS*) – FOOD AND THERAPEUTIC SPECIES WITH ADAPTATION POSSIBILITIES IN ARAD AGROECOLOGICAL AREA

Lucian HĂLMĂGEAN, Mihaela MEŞTER, Monica ZDREMȚAN, Maria BALINT, Daniela DIACONESCU, Virgil CIUTINA

Faculty of Food Engineering, Tourism and Environmental Protection, "Aurel Vlaicu" University, 2 Elena Dragoi St., 310330, Arad, Romania

P 3 RESEARCHES CONCERNING EXTRACTION AND DOSAGE TECHNOLOGY OF PYRIDOXAMINE AND THIAMINE BY USING SOME GARDEN SOME PLANTS OF THE FABACEAE FAMILY

Sergiu PALCU, Virgil CIUTINA, Sabin CHIS

Faculty of Food Engineering, Tourism and Environmental Protection, "Aurel Vlaicu" University, 2 Elena Dragoi St., 310330, Arad, Romania

P 4 CHANGES IN PHYSICAL PROPERTIES OF SOME FRUITS AFTER VACUUM IMPREGNATION TREATMENT

Anca DICU¹, Ioan CALINOVICI¹, Amelia RUS², Claudiu URSACHI¹

¹*Department of Natural Sciences and Technology. University „Aurel Vlaicu” Arad, Romania.*

²*S.C. Lazăr & Sohne S.R.L., Romania*

P 5 NANOESPRORAY QUADRUPOLE TIME-OF-FLIGHT TANDEM MASS SPECTROMETRIC ANALYSIS OF LONG CHAIN POLYSACCHARIDES

Mirela SARBU,¹ Roxana M. GHIULAI² and Alina D. ZAMFIR¹

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²*"Victor Babes" University of Medicine and Pharmacy, Timisoara, Romania*

P 6 FULLY AUTOMATED CHIP-BASED NANOESPRORAY MASS SPECTROMETRY OF FRUCTOOLIGOSACCHARIDES SYNTHESIZED BY LSCA FROM SUCROSE

Cristina MOSOARCA,¹ Triinu VISNAPUU,² Tiina ALAMAE,² Adrian CHIRIAC¹ and Alina D. ZAMFIR³

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P 7 STUDY OF L-GLUTAMIC ACID INFLUENCE ON THE THERMAL BEHAVIOR OF NATIVE WHEAT STARCH

Iolandă TOLAN¹, Dorina-Rodica CHAMBRÉ²

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² Research Development Innovation in Natural and Technical Sciences Institute of “Aurel Vlaicu” University. Arad, Elena Drăgoi 2, Arad 310330, Romania

P 8 **THE INFLUENCE OF TEMPERATURE STRESS ON THE EMISSIONS OF BIOGENIC VOLATILE ORGANIC COMPOUNDS AND PHOTOSYNTHETIC PARAMETERS OF *QUERCUS ROBUR* TREES**

Adina BODESCU^{1,2}, Astrid KANNASTE³, Andreea PAG¹, Ülo NIINEMETS³ and Lucian COPOLOVICI^{1,2}

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P 9 **VOLATILE ORGANIC COMPOUND EMISSIONS FROM OAK UNDER DROUGHT STRESS**

Daniel TOMESCU¹, Andreea PAG¹, Adina BODESCU^{1,2}, Astrid KÄNNASTE³, Ülo NIINEMETS³, Lucian COPOLOVICI^{1,2}

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P 10 **THE EVOLUTION OF PHENOLIC COMPOUNDS DURING TECNOLOGICAL PROCESS AT SUPERIORS RED WINES FROM MINIS VINEYARD**

Claudia MURESAN, Virgil CIUTINA, Sergiu PALCU, Claudiu URSACHI

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P 11 **PRELIMINARY STUDIES TO ATTEST THE ABILITY OF BOTRYTIS ACLADA FUNG TO PRODUCE LACCASES**

Simona GAVRILAS¹, Kitti MUEANGTOOM², Michaela Dina STANESCU³

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