

**P.I.9. INFLUENCE OF DIFFERENT *IN VITRO* SIMULATORS
FOR HYDRIC STRESS FOR GROWTH AND DEVELOPMENT
OF POTATO**

Andreea TICAN¹, Mihaela CIOLOCA¹, Nicoleta CHIRU¹, Carmen BADARAU^{1,2}

¹National Institute of Research and Development for Potato and Sugar Beet Brasov, 2 Fundaturii Street, Brasov, Romania

²Faculty of Food and Tourism, Transilvania University of Brasov, 148 Castelului Street, Brasov, Romania

Corresponding author e-mail: tican_andreea@yahoo.com

Keywords: *hydric stress, in vitro, osmotic agent, potato*

Necessity of finding genotypes adapted to drought has become urgent due to the effect of this type of stress on potato production. The most important phase, indispensable for improving drought tolerance is to identify genotypes tolerant and sensitive to drought. In this study, to induce in vitro water stress were used polyethylene glycol and sorbitol that was comparable with the basic medium MS, considered control. Determinations were performed 4 weeks after inoculation of mini cuttings belonging to five varieties of plantlets (Ruxandra, Sarmis, Gared, Marvis, Rustic) and the parameters analyzed were next: number of leaves, number of internodes, height of plantlets, root length, weight of fresh plantlet, weight of fresh root. Medium in which was added PEG with different concentrations significantly reduced the average weight of fresh plantlet and root compared with the control medium and medium with sorbitol and significantly reduced the mean number of internodes, the average height of the plantlet, the average root length. This osmotic agent (PEG) can be recommended for in vitro simulation of drought to identify tolerant genotypes to hydric stress.



UNIVERSITY OF AGRONOMIC SCIENCES
AND VETERINARY MEDICINE OF BUCHAREST
FACULTY OF BIOTECHNOLOGIES

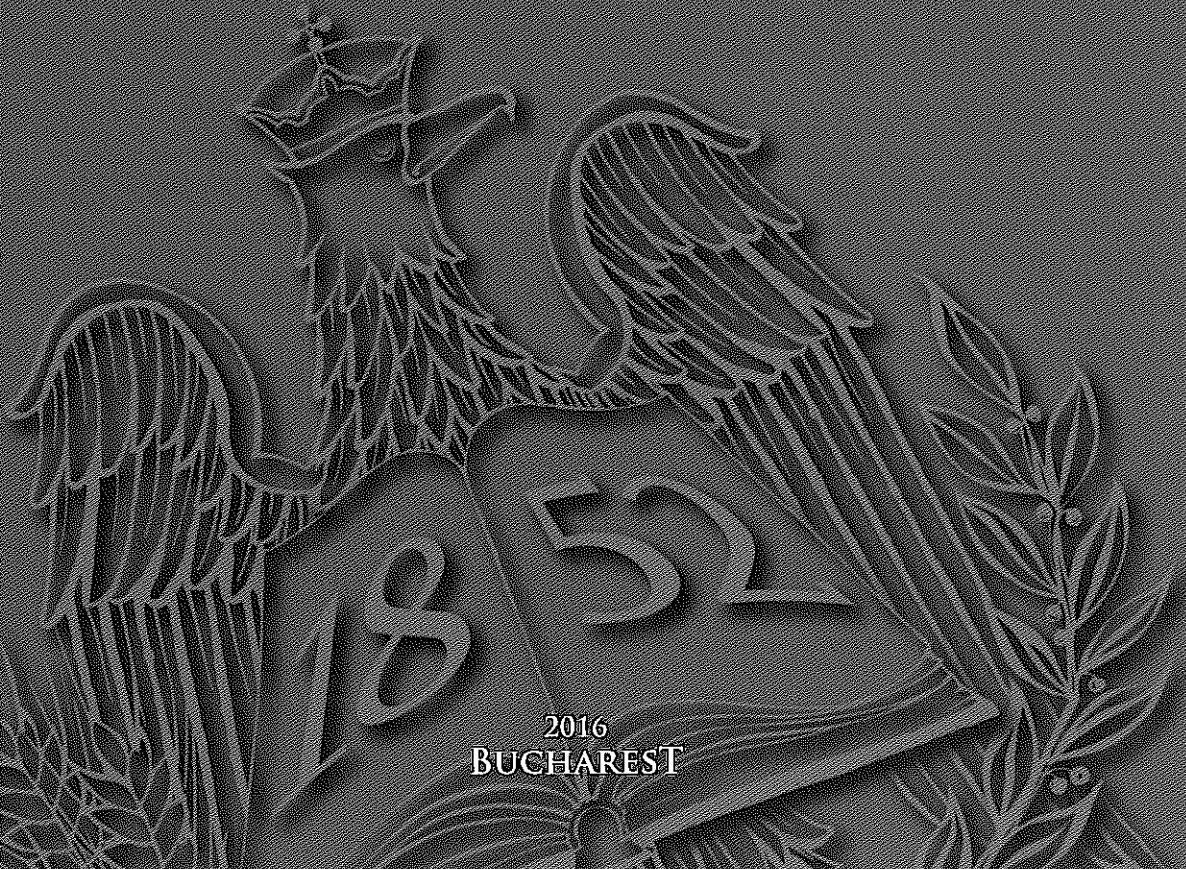


International Conference
"Agriculture for Life, Life for Agriculture"

BOOK OF ABSTRACTS

SECTION 6

BIOTECHNOLOGY



2016
BUCHAREST

UNIVERSITY OF AGRONOMIC SCIENCES
AND VETERINARY MEDICINE OF BUCHAREST
FACULTY OF BIOTECHNOLOGIES

International Conference
"Agriculture for Life, Life for Agriculture"

BOOK OF ABSTRACTS

SECTION 6

BIOTECHNOLOGY

2016
BUCHAREST

EDITORIAL BOARD OF THE BIOTECHNOLOGY SECTION

General Editor: Călina Petruța CORNEA

Executive Editor: Ștefana JURCOANE

Editorial Secretary: Silvana DĂNĂILĂ-GUIDEA, Mira TURTOI, Luminița VIȘAN

PUBLISHERS:

**University of Agronomic Sciences and Veterinary Medicine of Bucharest,
Faculty of Biotechnologies, Romania**

Address: 59 Mărăști Blvd., District 1, Zip code 011464, Bucharest, Romania,

Phone: + 40 21 318 25 64, Fax: +40 21 318 28 88,

E-mail: florentina.matei@biotehnologii.usamv.ro

Webpage: <http://biotechnologyjournal.usamv.ro>

CERES Publishing House

Address: 1 Piața Presei Libere, District 1, Zip code 013701, Bucharest, Romania

Phone: + 40 21 317 90 23, E-mail: edituraceres@yahoo.com,

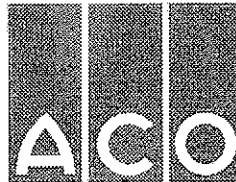
Webpage: www.editura-ceres.ro

Copyright 2016

To be cited: Book of Abstracts, International Conference "Agriculture for Life,
Life for Agriculture", Section 6: Biotechnology, 2016

SPONSOR:

SC ACO SRL



www.aco.com

*The publisher is not responsible for the opinions published in this volume.
They represent the authors' point of view.*

ISSN 2343-9653 (PRINT)

ISSN-L 2343-9653

THE INTERNATIONAL CONFERENCE
"AGRICULTURE FOR LIFE, LIFE FOR AGRICULTURE"

SCIENTIFIC BOARD – SECTION 6: BIOTECHNOLOGY

SCIENTIFIC BOARD – SECTION 6: BIOTECHNOLOGY

- Veronika ABRAM – Biotechnical Faculty, University of Ljubljana, Slovenia
- Petru ALEXE – Faculty of Food Science and Engineering, University of “Dunarea de Jos Galati”, Romania
- Ioan ARDELEAN – Institute of Biology, Romanian Academy
- Narcisa BABEANU – Faculty of Biotechnologies, UASVM Bucharest, Romania
- Gabriela BAHIRIM – Faculty of Food Science and Engineering, University of “Dunarea de Jos Galati”, Romania
- Gustavo V. BARBOSA-CANOVAS – Washington State University Pullman, State of Washington, US
- Judith BARETTE – Manchester Metropolitan University, United Kingdom
- Ingrid BAUMAN – Faculty of Food Technology and Biotechnology, Zagreb, Croatia
- Nastasia BELC – Faculty of Biotechnologies, UASVM Bucharest, Romania
- Daniela BORDA – Faculty of Food Science and Engineering, University of “Dunarea de Jos Galati”, Romania
- Dorica BOTAU – Faculty of Agriculture, UASVM Banat, Timisoara, Romania
- Calina Petruta CORNEA – Faculty of Biotechnologies, UASVM Bucharest, Romania
- Delia DIMITRIU – Manchester Metropolitan University, United Kingdom
- Paulo Jose do AMARAL SOBRAL – Depto de Eng. De Alimentos – FZEA USP, Pirassununga, Brazil
- Katherine FLYNN – European Association for Food Safety, Brussels, Belgium
- Helmut GLATTES – ISEKI Food Association, Austria
- Gustavo Fidel GUTIERREZ-LOPEZ – ENCB-IPN, National School of Biological Sciences, National Polytechnic Institute, Mexico
- Florentina ISRAEL ROMING – Faculty of Biotechnologies, UASVM Bucharest, Romania
- Stefana JURCOANE – Faculty of Biotechnologies, UASVM Bucharest, Romania
- Huub LELIEVELD – GHI Association Netherlands and EFFoST Executive Committee, Netherlands
- Florentina MATEI – Faculty of Biotechnologies, UASVM Bucharest, Romania
- Lynn McINTYRE – Food Microbiology, Harper Adams University College Edgmond, Newport, United Kingdom

**BOOK OF ABSTRACTS
SECTION 6: BIOTECHNOLOGY**

- Amalia Carmen MITELUT – Faculty of Biotechnologies, UASVM Bucharest, Romania
- Dumitru MILITARU – Institute Pasteur, Bucharest, Romania
- Anca NICOLAU – Faculty of Food Science and Engineering, University of “Dunarea de Jos Galati”, Romania
- Tatiana Vassu – University of Bucharest, Romania
- Estela de Oliveira NUNES – Santa Catarina West University – UNOESC Biotechnological Nucleus, Brazil
- Paola PITTIA – Dipartimento di Scienze, degli Alimenti University degli Studi di Teramo, Italy
- Mona Elena POPA – Faculty of Biotechnologies, UASVM Bucharest, Romania
- Cristina SILVA – ISEKI Food, Catholic University of Portugal
- Margarida VIEIRA – Directora do Dep. De Engenharia Alimentar, Instituto Superior de Engenharia, Universidade do Algarve, Portugal
- Medana ZAMFIR – Institute of Biology, Romanian Academy

ORGANIZING COMMITTEE – SECTION 6: BIOTECHNOLOGY

Coordinator: Professor PhD, Stefana Jurcoane
Associate Professor PhD. Florentina Israel Roming
Associate Professor PhD. Florentina Matei
Associate professor PhD Amalia Carmen Mitelut
Associate Professor PhD. Luminita Visan
Lecturer PhD. Mira Turtoi
Lecturer PhD. Gabriela Popa
Lecturer PhD. Diana Groposila-Constantinescu
Lecturer PhD. Silvana Guidea-Danaila
Lecturer PhD. Radu Toma
Lecturer PhD Gabriela Margarit
Lecturer PhD. Catalina Voaides
Assistant PhD. Mihaela Ghidurus Panagopoulou
Assistant PhD. Camelia Diguta

PRESENTATIONS

ORAL PRESENTATIONS

SUBSECTION I: AGRICULTURAL BIOTECHNOLOGY

O.I.1. WATER USE EFFICIENCY ON CABBAGE AND CAULIFLOWER TREATED WITH A NEW BIOSTIMULANT COMPOSITION

Ana-Maria SECIU, Anca OANCEA, Alexandra GASPAS, Lucia MOLDOVAN,
Oana CRACIUNESCU, Laura STEFAN, Valentin PETRUS, Florentina GEORGESCU

O.I.2. PRELIMINARY RESULTS REGARDING THE TESTING OF TREATMENTS WITH LIGHT-EMITTING DIODE (LED) ON THE SEED GERMINATION OF *ARTEMISIA DRACUNCULUS* L.

Irina-Maria ENACHE, Oana LIVADARIU

O.I.3. DRY FLOWABLE FORMULATION OF BIOSTIMULANTS *TRICHODERMA* STRAINS Florin OANCEA, Iulia RAUT, Tatiana Eugenia SESAN, Petruta Calina CORNEA

O.I.4. RESEARCH ON AGRICULTURE APPLICATIONS OF SOME NEWLY DEVELOPED BIOBASED PRODUCTS

Mihaela GEICU-CRISTEA, Mona Elena POPA, Amalia Carmen MITELUT, Silvana Mihaela DANAILA-GUIDEA, Gabriela NEATA, Rica BURNICHI, Elena Elisabeta TANASE,
Mihaela Cristina DRAGHICI, Paul Alexandru POPESCU

O.I.5. INFLUENCE OF DIETHANOLAMINE SALT OF 4-NITROBENZOIC ACID IN CALLUS CULTURE AT *MOMORDICA CHARANTIA* L.

Alina SIMINA, Manuela CRISAN, Sorin CIULCA, Dorica BOTAU

O.I.6. STRUCTURAL ANALYSIS OF A-GLUCOSIDASE (AGLU) ENZYME IN INSECTS Samin SEDDIGH, Maryam DARABI

SUBSECTION III: FOOD BIOTECHNOLOGY

O.III.1. MUSHROOM MYCELIA CULTIVATION ON DIFFERENT AGRICULTURAL WASTE SUBSTRATES

Mihai Bogdan NICOLCIOIU, Gabriela POPA, Florentina MATEI

O.III.2. COLOR CHANGES DURING THE STORAGE IN BOTTLES OF MUSCAT OTTONEL WINE TREATED WITH ASCORBIC ACID AND GLUTATHIONE

Gianina Antonela Badea, Arina Oana Antoce

O.III.3. EFFECTS OF TREATMENTS WITH ASCORBIC ACID AND GLUTATHIONE ON THE SAUVIGNON BLANC WINE COLOUR DURING BOTTLE AGING

Gianina Antonela BADEA, Arina Oana ANTOCE

O.III.4. PHYSICAL AND CHEMICAL CHARACTERISTICS OF CROSSED OLIVES AND THEIR CONVENIENCE TO GREEN TABLE OLIVE FERMENTATION BY USING *LACTOBACILLUS PLANTARUM* AS A STARTER CULTURE

Yasin Ozdemir, Sefik Kurultay

O.III.5. COMPARATIVE EFFECT OF GAMMA IRRADIATION, DRYING, AND FREEZING ON SENSORY AND HYGENIC QUALITY OF PARSLEY (*PETROSELINUM CRISPUM* (MILL.) FUSS VAR. *NEAPOLITANUM*)

Giorgiana M. CATUNESCU, Ioan ROTAR, Roxana VIDICAN, Florina BUNGHEZ,
Mircea MUNTEAN, Ovidiu MARIAN, Ancuta M. ROTAR

O.III.6. PRODUCTION AND THERAPEUTIC PROPERTIES OF KEFIR. A REVIEW Oktay YERLIKAYA

BOOK OF ABSTRACTS
SECTION 6: BIOTECHNOLOGY

- O.III.7.** ANTIFUNGAL ACTIVITY OF TWO BOTANICAL EXTRACTS ON ROSE CROP (*ROSA L. SP.*), AGAINST *SPHAEROTHECA PANNOSA* VAR. *ROSAE*
Carlos T. CÁRDENAS, Wilmer E. R. POZO, Marcia B. ROJAS, Annele Q. ROQUE,
Raluca A. MIHAI

SUBSECTION IV: INDUSTRIAL AND ENVIRONMENTAL BIOTECHNOLOGY

- O.IV.1.** PRODUCTION OF L-ASPARAGINASE FROM *A. TERREUS* BY OPTIMIZATION OF CONDITIONS IN LIQUID STATE FERMENTATION
Muhammad Anjum ZIA, Maleeha AROOG, Khalil-ur-RAHMAN and Misbah LATIF
- O.IV.2.** LIFE CYCLE ASSESSMENT (LCA) ON EUROPEAN SKIMMED MILK POWDER PROCESSING PRODUCTION PLANT
Magdalini KROKIDA, Maria TAXIARCHOU, Antonis POLITIS, Antonis PEPPAS, Konstantina KYRIAKOPOULOU
- O.IV.3.** MILD ALKALINE PRETREATMENT APPLIED IN THE BIOREFINERY OF SORGHUM BIOMASS FOR ETHANOL AND BIOGAS PRODUCTION
Adrian TRULEA, Teodor VINTILA, Georgeta POP
- O.IV.4.** EVALUATION OF THE CAPACITY OF DIFFERENT MICROORGANISMS TO SOLUBILIZE SEVERAL COMPOUNDS OF PHOSPHOROUS AND ZINC
Andreea DOBRE, Laura Alexandra MARIN, Carmen MANOLE, Nicoleta ANDREI, Calina Petruta CORNEA
- O.IV.5.** OPTIMIZATION OF HYDROLASE ENZYME DOSAGE IN THE PROCESS OF CELLULOSE HYDROLYSIS OF REJECT PULP AND BIOETHANOL FERMENTATION BY MICROBIAL CONSORTIUM
Ratu SAFITRI, Athena DINANTY, Gustan PARI, Moh. NURZAMAN

SUBSECTION V: FOOD SAFETY

- O.V.1.** UNCONVENTIONAL TREATMENTS OF FOOD: MICROWAVE vs. RADIOFREQUENCY
Georgiana-Aurora STEFANOIU, Elisabeta Elena TANASE, Amalia Carmen MITELUT, Mona Elena POPA
- O.V.2.** IDENTIFICATION OF THE MOST RELEVANT QUALITY PARAMETERS FOR BERRIES - A REVIEW
Elisabeta Elena TANASE, Viad Ioan POPA, Mona Elena POPA, Mihaela GEICU-CRISTEA, Paul POPESCU, Mihaela DRAGHICI, Amalia Carmen MITELUT
- O.V.3.** THE EFFECTS OF HEAT TREATMENT TECHNIQUES ON MILK COMPONENTS IN TERMS OF FOOD SECURITY AND HUMAN NUTRITION
Oktay YERLIKAYA, Ecem AKAN, Asli AKPINAR, Ozer KINIK

SUBSECTION VI: MISCELLANEOUS

- O.VI.1.** MICROBIAL XYLANASE: A REVIEW
Aglaiia BURLACU, Calina Petruta CORNEA, Florentina ISRAEL-ROMING

THE INTERNATIONAL CONFERENCE
"AGRICULTURE FOR LIFE, LIFE FOR AGRICULTURE"

POSTER PRESENTATIONS

SUBSECTION I: AGRICULTURAL BIOTECHNOLOGY

- P.I.1.** THE INFLUENCE OF THE FEMALE PARENT ON THE INDUCING RATE WITH FIVE DIFFERENT INDUCER LINES IN MAIZE DH TECHNOLOGY
Ana Raluca BITICA, Aurel GIURA, Calina Petruta CORNEA
- P.I.2.** THE INFLUENCE OF GENOTYPE AND SOIL TILLAGE SYSTEM ON FORMING PRODUCTION COMPONENTS FOR SWEET CORN UNDER SOIL-CLIMATE CONDITIONS SPECIFIC TO ROMANIAN PLAIN
Maria Cristiana Oncica (Moraru), Ricuta-Vasilica Dobrinou, Luminita Visan, Silvana Danaila-Guidea, Izabela Oprea
- P.I.3.** THE INFLUENCE OF TECHNOLOGICAL LINKS UPON SWEET CORN YIELD QUALITY UNDER SOIL-CLIMATE CONDITIONS OF THE ROMANIAN PLAIN
Maria Cristiana Oncica (Moraru), Ricuta-Vasilica Dobrinou, Luminita Visan, Silvana Danaila-Guidea, Andrei Gabriel Ivan
- P.I.4.** EVALUATION OF THE GENETIC VARIABILITY CORRELATED WITH MULTILEAFLET TRAIT IN ALFALFA
Sorina Popescu, Oana-Maria Boldura, Sorin Ciulca
- P.I.5.** GENETIC CONTROL OF GRAIN SIZE AND WEIGHT IN WHEAT- WHERE WE ARE NOW?
Daniel Cristina, Matilda Ciuca, Petruta Calina Cornea
- P.I.6.** PROTEIN CONTENT, THOUSAND KERNEL WEIGHT (TKW) AND VOLUMETRIC MASS (VM) VARIABILITY IN A SET OF WHEAT MUTATED AND MUTATED/RECOMBINANT DH LINES
Paula Steliana Dobre, Aurel Giura
- P.I.7.** EXTRACTION AND ANALYTICAL METHODS OF CAPSAICINOIDS – A REVIEW
Roxana-Madalina Stoica, Misu Moscovici, Caterina Tomulescu, Narcisa Babeanu
- P.I.8.** THE PARASITE BROOMRAPE (*OROBANCHE CUMANA*) IN SUNFLOWER – IDENTIFYING SOURCES FOR GENETIC RESISTANCE
Gabriel Florin Anton, Maria Joita-Pacureanu, Calina Petruta Cornea
- P.I.9.** INFLUENCE OF DIFFERENT *IN VITRO* SIMULATORS FOR HYDRIC STRESS FOR GROWTH AND DEVELOPMENT OF POTATO
Andreea Tican, Mihaela Cioloca, Nicoleta Chiru, Carmen Badarau
- P.I.10.** ACCELERATED MICROPROPAGATION OF ENDEMIC *FRITILLARIA AUREA SCHOTT*
Suleyman Kizil, Tahsin Sogut, Ugur Sesiz, Khalid Mahmood Khawar
- P.I.11.** MICROFLORA ASSOCIATED WITH MAIZE GRAINS DURING STORAGE PERIOD
Roxana Dudoiu, Stelica Cristea, Carmen Lupu, Daria Popa, Maria Oprea
- P.I.12.** COMPARISON OF THREE DETECTION METHODS OF PHYTOPLASMA AT APPLE TREES PROVES THE ADVANTAGE OF AMPLIFICATION OF SPECIFIC 16SRADN
Desareda Mero, Ariola Bacu, Margarita Hysko
- P.I.13.** GETTING PLANTS *NICOTIANA TABACUM*, THAT SIMULTANEOUSLY EXPRESSING HETEROLOGOUS GENE OF TWO ACYL-LIPID DESATURASE CYANOBACTERIUM *DESC* AND *DESA*
Tetyana Kyrpa-Nesmiian
- P.I.14.** GENETIC ANALYSIS OF QTLs CONTROLLING CARPEL NUMBER IN CITRUS
Osman Gulsen, Aydin Uzun, Ihsan Canan
- P.I.15.** PHYTOHORMONE-LIKE PRODUCING *BACILLUS* INCREASE TOMATO SEEDLINGS QUALITY
Oana-Alina Siciua, Sorina Dinu, Florica Constantinescu
- P.I.16.** THE INFLUENCE OF SEVERAL ABIOTIC FACTORS ON *FUSARIUM* SPP. BIOLOGY
Roxana Dudoiu, Stelica Cristea, Daria Popa, Carmen Lupu, Maria Oprea

BOOK OF ABSTRACTS

SECTION 6: BIOTECHNOLOGY

- P.I.17.** INCREASING THE ANTIOXIDANT ACTIVITY, TOTAL PHENOLIC AND ASSIMILATORY PIGMENTS CONTENT BY OPTIMIZING THE *IN VITRO* GROWTH CONDITIONS OF *LYCIUM BARBARUM* PLANT
Mihaela Dutu, Aurel Ardelean, Mirela Ardelean, Dorina Cachita-Cosma, Marian Burducea, Andrei Lobiuc, Elida Rosenhech
- P.I.18.** PRELIMINARY RESULTS OF THE WINTER PEAS BREEDING PROGRAM
Ancuta Cringasu (Barbieru)
- P.I.19.** LEATHER HYDOLYSATE EVALUATED AS BIOACTIVE POTATO FERTILIZER
Mioara Ancuta Dumitru, Gabriel Corbu, Stefana Jurcoane
- P.I.20.** AMOUNT OF DNA EXTRACTED FROM DIFFERENT TISSUES OF APPLE TREES IN SPRINGTIME CAN BE USED TO DESCRIBE THE LEVEL OF INFECTION
Desareda Mero, Ariola Bacu
- P.I.21.** COMPARATIVE ANALYSIS OF GENOTYPE EFFECT ON VEGETATIVE GROWTH AND PRODUCTION COMPONENTS IN DIFFERENT LINES AND VARIETIES OF *CAMELINA SATIVA* L.
Simona Copaci, Stefana Jurcoane, Ana Rosu, Silvana-Mihaela Danaila-Guidea, Radu Cristian Toma
- P.I.22.** EFFECT OF LIGHT AND GENOTYPE ON CALLUSING IN SUNFLOWER ANTHERS
Sergun Dayan, Hayati Arda
- P.I.23.** ANALYSES OF HORDEIN CONCENTRATION IN BARLEY BEFORE AND AFTER MALTING: A POSSIBILITY OF SCREENING FOR GLUTEN-FREE BEER PRODUCTION
Guerry Olivier, El Hour Mehdi
- P.I.24.** CYTOLOGICAL ASPECTS AND ANTHOCYANIN ACCUMULATION OBSERVED IN SEDUM *TELEPHIUM* SSP. *MAXIMUM* L. CALLUS
Mirela Ardelean, Aurel Ardelean, Anca Hermenean, Dorina Cachita, Andrei Lobiuc, Elida Rosenhech
- P.I.25.** POTENTIAL OF RHIZOBACTERIAL STRAINS IN CHANGING THE ROOT ARCHITECTURE OF *ARABIDOPSIS THALIANA* AND GROWTH PROMOTION OF *TRITICUM AESTIVUM* PLANT
Atia Iqbal
- P.I.26.** RELATIVE STUDY OF VARIATIONS IN MICROBIAL DIVERSITY OF *HELLANTHUS ANNUUS* ACROSS THE GROWTH SEASON
Sahar Mehmood

SUBSECTION II: BIOTECHNOLOGY IN VETERINARY MEDICINE

- P.II.1.** STUDIES CONCERNING OPTIMISATION OF REVERSE TRANSCRIPTION POLYMERASE CHAIN REACTION TECHNIQUE OF PAN-SIMBU VIRUS GROUP
Maria Rodica Gurau, Stelian Baraitareanu, Marius Andrei Manescu, Mihaela Cristiana Popp, Doina Danes
- P.II.2.** VALIDATION RT-QPCR TECHNIQUE FOR DETECTION OF *BRUCELLA* GENOME IN MILK SHEEP AND GOAT IN WEST BANK PART OF PALESTINE
Elena Awwad, Mohaminad Farraj, Tamer Essawi, Israr Sabri, Kamel Adwan, Issa Rumi, Assad Manasra, Stelian Baraitareanu, Maria Rodica Gurau, Doina Danes
- P.II.3.** MICROBIAL LOAD OF *INULA* SP. PLANT EXTRACT – A PRELIMINARY PROPOSAL FOR PRODUCT STANDARDISATION
Tomina Purcaru, Camelia Diguta, Florentina Matei

SUBSECTION III: FOOD BIOTECHNOLOGY

- P.III.1.** MOLECULAR IDENTIFICATION AND METABOLIC SCREENING OF SOME YEAST STRAINS FROM FOODS
Ortansa Csutak, Emilia Sabau, Diana Pelinescu, Viorica Corbu, Ioana Cirpici, Tatiana Vassu

**THE INTERNATIONAL CONFERENCE
"AGRICULTURE FOR LIFE, LIFE FOR AGRICULTURE"**

P.III.2. GROWTH/SURVIVAL OF SOME FUNCTIONAL LACTIC ACID BACTERIA UNDER DIFFERENT STRESS CONDITIONS

Silvia-Simona Grosu-Tudor, Iulia-Roxana Stefan, Medana Zamfir

P.III.3. PHYSICAL CHEMICAL STUDIES REGARDING CIDER STABILITY STORED UNDER AMBIENT CONDITIONS

Iuliana Beleuzu Boda, Marius Cristian Boda

P.III.4. COMPARISON OF MINERAL ELEMENT CONSTITUENTS AND CHEMICAL COMPOSITION OF VOLATILE OIL IN *ALLIUM URSINUM* AND *NECTAROSCORDUM SICULUM*

Aneta POPOVA, Dasha MIHAYLOVA, Iordanka ALEXIEVA, Maria DIMITROVA

P.III.5. EFFECT OF EXTRACTION VARIABLES ON THE OMEGA-3 EICOSAPENTAENOIC ACID (EPA) CONTENT OF (*NANNOCHLOROPSIS OCULATA*) MICROALGA OIL

Osman Kadir Topuz, Adem Kaya, Ali Can Alp

P.III.6. SCREENING FOR S-LAYER PRODUCTION BY SOME LACTOBACILLI FROM HOME-MADE FERMENTED FOODS

Iulia-Roxana Stefan, Silvia-Simona Grosu-Tudor, Medana Zamfir, Petruta-Calina Cornea

P.III.7. ALGAL OIL: A NOVEL SOURCE OF OMEGA-3 FATTY ACIDS FOR HUMAN NUTRITION

Osman Kadir Topuz

P.III.8. STUDIES ON THE CHROMATIC CHARACTERISTICS OF SOME ROMANIAN RED WINES

Luminita Valerica Visan, Ricuta Vasilica Dobrinouiu, Silvana Danaila-Guidea, Diana Groposila-Constantinescu

P.III.9. ANTIOXIDATIVE PROPERTIES OF *PLANTAGO LANCEOLATA* L. EXTRACTS EVALUATED BY CHEMILUMINESCENCE METHOD

Cornelia Nichita, Georgeta Neagu Ana Cucu, Virginia Vulturescu, S.V.G. Bertesteanu

P.III.10. USE OF HAPTEN-CARRIER COMPLEXES FOR BENZIMIDAZOLE PESTICIDES IMMUNOASSAYS DEVELOPMENT

Veronica Tanasa, Radu I. Tanasa, Madalina Doltu, Gabriela Hristea, Narcisa Babeanu

P.III.11. ANTIOXIDANT AND ANTIMICROBIAL PROPERTIES OF *LAETIPORUS SULPHUROUS* (BULL.) MURRILL

Gabriela Popa, Calina Petruta Cornea, Gabriela Luta, Evelina Gherghina, Florentina Israel-Roming, Corina Bubueanu, Radu Toma

P.III.12. SOME PROPERTIES OF CAROB POD AND ITS USE OF IN DIFFERENT AREAS INCLUDING FOOD TECHNOLOGY

Selda Bulca

P.III.13. STUDY CONCERNING THE USE OF GERMINATED OAT FLOUR IN OBTAINING OF DIETARY BREAD

Dorica Botau, Panfil Pirvulescu, Ersilia Alexa

P.III.14. DETECTION OF GENETIC VARIABILITY IN *PLEUROTUS ERYNGII* USING TUBULIN-BASED POLYMORPHISM MOLECULAR MARKERS

Gabriela Popa, Catalina Voaides, Matilda Ciuca, Calina Petruta Cornea

P.III.15. PHYSICO-CHEMICAL CONSTITUENTS AND SENSORY ACCEPTABILITY OF READY TO SERVE SOYMILK-SEA BUCKTHORN BEVERAGE

Nicoleta Maftei, Ana Ramos-Villarroel, Elpida Paltenea, Gabriela Balan, Camelia Diaconu

P.III.16. CHEMICAL ANALYSIS AND ANTIMICROBIAL ACTIVITY OF *LAVANDULA OFFICINALIS* L. ESSENTIAL OILS

Dana M. Copolovici, Dana G. Radu, Georgeta Pop, Lucian Copolovici

SUBSECTION IV: INDUSTRIAL AND ENVIRONMENTAL BIOTECHNOLOGY

P.IV.1. BIOCONTROL ACTIVITY OF *TRICHODERMA* STRAINS AGAINST *PHYTOPHTHORA SOJAE* UNDER GREENHOUSE CONDITIONS

Iuliana Raut, Mariana Calin, Tatiana Eugenia Sesan, Luiza Jecu

BOOK OF ABSTRACTS

SECTION 6: BIOTECHNOLOGY

- P.IV.2.** GASTROPROTECTIVE POTENTIAL OF *FAGUS SYLVATICA* LEAVES EXTRACTS ON STRESS-INDUCED ULCER MODEL ON RATS
Lucia Pirvu, Ioana Nicu, Stelian Schiopu, Dragomir Coprean
- P.IV.3.** EXTRACTION AND IDENTIFICATION OF A SERINE PROTEASE INHIBITOR FROM FLAX SEED (*LINUM USITATISSIMUM* L.)
Mihaela-Carmen Eremia, Irina Lupescu, Gabriela Valeria Savoiu, Maria Spiridon
- P.IV.4.** HPTLC PHENOLIC COMPOUNDS FINGERPRINT AND ANTIOXIDANT ACTIVITY OF *SAMBUCUS EBULUS* LEAVES AND FRUIT
Corina Bubueanu, Ramona Daniela Pavaloiu, Fawzia Sha'at, Angela Casarica
- P.IV.5.** INDOOR CULTIVATION OF SELECTED OIL - CONTAINING CONSORTIA OF PHOTOSYNTHETIC MICROORGANISMS FOR FURTHER BIODIESEL PRODUCTION; PRELIMINARY FINANCIAL EVALUATION
Joan I. Ardelean, Damian Manca
- P.IV.6.** SHORT TERM EXPERIMENTS ON SYNTHETIC WASTEWATER TREATMENT IN LABORATORY ACTIVATED SLUDGE SEQUENCING BATCH REACTOR
Mirela C. Iordan, Ioan I. Ardelean
- P.IV.7.** NITROGEN AND PHOSPHORUS REMOVAL FROM MUNICIPAL WASTEWATER USING CONSORTIA OF PHOTOSYNTHETIC MICROORGANISMS
Roxana Gh. Manca, Ioan I. Ardelean
- P.IV.8.** FERMENTATION OF ACID-PRETREATED TEA PROCESSING WASTE FOR ETHANOL PRODUCTION USING *SACCHAROMYCES CEREVISIAE*
Mustafa Germec, Irfan Turhan, Ercan Yatmaz, Nedim Tetik, Mustafa Karhan
- P.IV.9.** *IN VITRO* BIODEGRADATION OF KERATINIZED SUBSTRATES BY KERATINOPHILIC FUNGI
Mariana Calin, Olguta Dracea, Iuliana Raut, Gelu Vasilescu, Mihaela Badea Doni, Melania Liliana Arsene, Elvira Alexandrescu, Diana Constantinescu-Aruxandei, Luiza Jecu, Veronica Lazar
- P.IV.10.** A PRELIMINARY HINT OF BACTERIAL DIVERSITY IN HYPERSALINE WATER STREAMS LOCATED IN LOPATARI, ROMANIA
Irinel Proca, Larisa Ursu, Camelia Diguta, Florentina Matei, Stefana Jurcoane
- P.IV.11.** OBTAINING GROWTH CURVES FOR *SCHEFFERSOMYCES STIPITIS* STRAINS AND THEIR MODELING
Mustafa Germec, Fatma Kubra Kartal, Hazal Guldali, Merve Bilgic, Asli Isci, Irfan Turhan
- P.IV.12.** LEVAN - A MINI REVIEW
Caterina Tomulescu, Roxana Stoica, Claudia Sevcenco, Angela Casarica, Misu Moscovici, Adrian Vamanu

SUBSECTION V: FOOD SAFETY

- P.V.1.** INVESTIGATION OF SOME EXTRACTION METHODS FOR THE RECOVERY OF PEANUT PROTEINS FROM OILS AND FATS
Elena Mihai (Draghici), Maria Pele
- P.V.2.** ADVANTAGES AND DISADVANTAGES OF ACTIVE CARBON IN QUECHERS SAMPLE PREPARATION METHOD FOR PESTICIDE RESIDUES
Vojislava Bursić, Gorica Vuković, Tijana Zeremski, Mirjana Ljubojević, Đorđe Malenčić, Dušan Marinković, Sonja Gvozdenac
- P.V.3.** ESTIMATION OF QUALITY OF 4 MONOFLORAL HONEY SAMPLES: ACACIA HONEY, LIME HONEY, OILSEED RAPE HONEY AND RASPBERRY HONEY
Ramona Iuliana Szasz-Zima, Monica Enache
- P.V.4.** PHYSICO-CHEMICAL AND MICROBIOLOGICAL CHARACTERIZATION OF WHEAT FLOURS ON ROMANIAN MARKET IN RELATION TO THE SHELF LIFE
Radiana Tamba-Berehoiu, Ciprian-Nicolae Popa

**THE INTERNATIONAL CONFERENCE
"AGRICULTURE FOR LIFE, LIFE FOR AGRICULTURE"**

- P.V.5. THE INFLUENCE OF PHYSICAL PARAMETERS OF MALT IN THE QUALITY OF WORT FOR BEER**
Tanja Kamburi Luljeta Xhangolli
- P.V.6. VEGETABLE OIL CONVERSION INTO CORE-SHELL BIOPRODUCTS FOR STORED GRAIN PROTECTION**
Mariana Popescu, Florin Oancea, Malina Desliu-Avram
- P.V.7. INFRARED-SPECTROSCOPY – A USEFUL TOOL FOR BEE POLLEN CHARACTERISATION**
Roxana Spulber, Dan Mihaiescu, Ovidiu Popa, Narcisa Babeanu
- P.V.8. ANTIFUNGAL ACTIVITY OF SOME POLY(3-HYDROXYBUTYRATE)/CHITOSAN BASED COMPOSITE MATERIALS**
Amalia Carmen Mitelut, Elisabeta Elena Tanase, Mona Elena Popa, Paul Alexandru Popescu, Maria Rapa
- P.V.9. IMPROVING FOOD SAFETY THROUGH THE DEVELOPMENT AND IMPLEMENTATION OF ACTIVE AND BIODEGRADABLE FOOD PACKAGING SYSTEMS**
Amalia Carmen Mitelut, Mona Elena Popa, Elisabeta Elena Tanase, Paul Popescu, Mihaela Draghici, Mihaela Geicu–Cristea, Silvana Danaila-Guidea, Gabriela Neata
- P.V.10. THE EVALUATION OF TRANSFER LEVEL FOR PESTICIDE RESIDUES, IN CASE OF PROCESSING BY SOLVENT EXTRACTION OF MEDICINAL PLANTS**
Veronica DRUMEA, Roxana NITA, Lenuta ZGLIMBEA, Laura OLARIU

SUBSECTION VI: MISCELLANEOUS

- P.VI.1. BENEFITS OF E-LEARNING PLATFORMS AND CLOUD COMPUTING IN THE BIOTECHNOLOGY EDUCATION**
Radu Cristian Toma, Gabriela Margarit, Diana Groposila, Dana Barba
- P.VI.2. CULTIVATION OF FLORIDA OYSTER MUSHROOM ON VARIOUS TYPES OF SUBSTRATE**
Denisa Stanescu, Emanuel Vamanu
- P.VI.3. SATISFACTION LEVEL OF STUDYING THROUGH E-LEARNING SYSTEM FOR THE STUDENTS ENROLLED IN THE BIOTECHNOLOGY EDUCATION**
Gabriela Margarit, Radu Cristian Toma, Diana Groposila, Dana Barba
- P.VI.4. THE DYNAMICS OF LIVE AND DEAD CELLS AND COLONY FORMING UNITS OF *E. COLI* DH5A STRAIN KEPT FOR FIVE DAYS AT 18°C IN MICROCOSMS CONTAINING FILTERED AND UNFILTERED SEA WATER**
Roxana Gabriela Cristina, Ioan I. Ardelean
- P.VI.5. NEW BIOACTIVE COMPOSITES BASED ON BACTERIAL CELLULOSE AND NATURAL PRODUCTS**
Angela Casarica, Corina Bubueanu, Ana Despina Ionescu, Ioana Nicu
- P.VI.6. ANTIMICROBIAL ACTIVITY OF TEXTILES TREATED WITH ROSEMARY AND ORANGE ESSENTIAL OILS AGAINST A SELECTION OF PATHOGENIC FUNGI**
Ovidiu Iordache, Andreea Cozea, Elena Varzaru, Elena Stoica, Corneliu Platon, Iuliana Dumitrescu
- P.VI.7. SELECTIVE FRACTIONS WITH ANTIOXIDANT ACTIVITY FROM ROMANIAN CULTIVATED *CYNARA SCOLYMUS* L.**
Svetlana Colceru-Mihul, Sultana Nita, Alice Grigore, Corina Bubueanu, Elena Draghici, Emanuel Vamanu, Domnica Rughimis
- P.VI.8. ANTIMICROBIAL ACTIVITY OF DIFFERENT TEA SOURCED KOMBUCHA**
Bogdan Matei, Iustinian Tomescu, Ovidiu Popa, Laura-Dorina Dinu, Camelia Diguta



ISSN 2343 – 9653
ISSN-L 2343 – 9653