

SUMMARY

SUBSECTION I: AGRICULTURAL BIOTECHNOLOGY

1. MIXED MICROBIAL AND THERMAL DEGRADATION OF AGRICULTURAL DERIVED PLANT WASTES - **Eleonora CALZONI, Alessio CESARETTI, Nicolò MONTEGIOVE, Debora CASAGRANDE PIERANTONI, Laura CORTE, Luca ROSCINI, Carla EMILIANI, Leonardo LEONARDI, Gianluigi CARDINALI** 11
2. INFLUENCE OF AGROINFILTRATION CONDITIONS ON THE TRANSIENT GREEN FLUORESCENT PROTEIN EXPRESSION IN *Nicotiana rustica* L. PLANTS - **Oksana VARCHENKO, Mykola KUCHUK, Myroslav PARI, Yuriy SYMONENKO** 17
3. ESTABLISHMENT OF SOME CULTIVATION STAGES AT VEGETATION HOUSE LEVEL IN ECOLOGICAL SYSTEM ON THREE ROMANIAN TOMATOE VARIETIES - **Silvana Mihaela DĂNĂILĂ-GUIDEA, Gabriela NEAȚĂ, Floarea BURNICHI, Paul-Alexandru POPESCU, Mihaela DRĂGHICI, Elisabeta Elena POPA, Alexandru-Alin SANDA, Alexandra ȘOGOR, Ricuța-Vasilica DOBRINOIU, Valerica-Luminița VIȘAN, Gabriela Lucica MĂRGĂRIT, Mihaela GEICU-CRISTEA, Amalia Carmen MITELUȚ, Mona Elena POPA** 23
4. THE EFFECT OF TiO₂ AND ZnO₂ NANOPARTICLES UPON SOME BIOMETRICAL CHARACTERISTICS IN SOYBEAN (*Glycine max* L. Merril) *IN VITRO* CULTURES - **Doina CLAPA, Orsolya BORSAL, Loredana LEOPOLD, Cristina COMAN, Alexandra TOMA, Ioana OPREA, Monica Hârța** 31

SUBSECTION II: FOOD BIOTECHNOLOGY

1. EFFECT OF VARIOUS EXTRACTION METHODS ON PEANUT PROTEIN EXTRACTION EFFICIENCY - **Elena MIHAI (DRĂGHICI), Ramona-Daniela PAVALOIU, Fawzia SHA'AT, Maria PELE** 39
2. EFFECT OF DRY SOURDOUGH ADDITION IN WHEAT FLOUR ON DOUGH RHEOLOGICAL PROPERTIES - **Andreea VOINEA** 45
3. COMPARATIVE STUDY OF THE QUALITY OF TRADITIONAL HONEY AND INDUSTRIAL HONEY - **Diana GROPOȘILĂ-CONSTANTINESCU, Gabriela POPA, Valerica-Luminița VIȘAN, Gabriela Lucica MĂRGĂRIT, Radu-Cristian TOMA, Dana BARBA** 50
4. EVOLUTION OF CONTENT IN ORGANIC ACIDS OF RED WINE IN RELATIONSHIP WITH THE VARIETY AND PEDOCLIMATIC CONDITIONS FROM VALEA CALUGĂREASCĂ VINEYARD - **Elena COARFĂ, Mona Elena POPA** 55
5. HEAVY METALS CONTAMINATION OF FOOD CONTACT MATERIALS IN ROMANIA - **Elena UNGUREANU, Gabriel MUSTĂȚEA, Mona Elena POPA** 63
6. THE INFLUENCE OF PLANT-BASED PROTEIN INGREDIENTS ON THE QUALITY OF HIGH-PROTEIN BREAD - **Gabriela Daniela STAMATIE, Denisa Eglantina DUȚĂ, Florentina ISRAEL-ROMING** 69
7. TRENDS AND CHALLENGES IN GLUTEN-FREE BAKING PRODUCTS INGREDIENTS: A REVIEW - **Iulia-Elena SUSMAN, Alina CULEȚU, Livia APOSTOL, Mona Elena POPA** 76

8. STABILITY OF <i>Lactobacillus plantarum</i> , <i>L. casei</i> AND <i>L. rhamnosus</i> IN TWO TYPES OF MICROCAPSULES - LILIANA LUCA, MIRCEA OROIAN	84
9. COMPARATIVE STUDY BETWEEN GENETICALLY MODIFIED PRODUCTS OBTAINED BY CONVENTIONAL TRANSGENESIS AND BY NEW TECHNIQUES OF TARGETED MUTAGENESIS - Luminița Raluca SIMIONESCU, Narcisa BĂBEANU, Călina Petruța CORNEA	93
10. BY-PRODUCTS INGREDIENTS IN CORN BASED PASTA: EFFECTS ON THE TECHNOLOGICAL AND QUALITY CHARACTERISTICS - Mădălina UNGUREANU-IUGA	97
11. ANTIOXIDANTS IN FRESH AND COOKED BROCCOLI (<i>Brassica oleracea</i> var. Avenger) AND CAULIFLOWER (<i>Brassica oleracea</i> var. Alphina F1) - Mihaela MULȚESCU, Marta ZACHIA, Nastasia BELC, Floarea BURNICHI, Florentina ISRAEL-ROMING	107
12. <i>Candida (Pichia) guilliermondii</i> CMGB44 WITH VERSATILE ANTIMICROBIAL ACTIVITY - Ortansa CSUTAK, Călina Petruța CORNEA, Viorica CORBU	114
13. COMPREHENSIVE EVALUATION OF LIPIDIC CONTENT IN DRY PET FOOD RAW MATERIALS: COMPARISON BETWEEN FRESH MEATS AND MEAT MEALS - Nicolò MONTEGIOVE, Eleonora CALZONI, Alessio CESARETTI, Husam ALABED, Roberto Maria PELLEGRINO, Carla EMILIANI, Alessia PELLEGRINO, Leonardo LEONARDI ..	122

SUBSECTION III: MEDICAL AND PHARMACEUTICAL BIOTECHNOLOGY

1. ANTIMICROBIAL POTENTIAL OF KOMBUCHA BACTERIAL BIOPOLIMER - Bogdan MATEI, Camelia Filofteia DIGUȚĂ, Florentina MATEI, Ovidiu POPA	133
2. COMPARATIVE ANALYSIS OF <i>Artemisia annua</i> EXTRACTS OBTAINED BY MODERN AND CLASSIC EXTRACTION TECHNIQUES - Corina BUBUEANU, Iulian TECU, Denis NEGREA, Ioana TABREA, Adela STARAS, Ionica BAJENARU	138
3. METHODS FOR SCREENING OF NOVEL L-ASPARAGINASE FROM MICROORGANISMS - Georgiana MICU, Florentina ISRAEL-ROMING, Călina Petruța CORNEA	144
4. PRELIMINARY RESULTS ON BACTERIAL CROSS-RESISTANCE ASSESSMENT ASSOCIATED WITH POVIDONE IODINE USAGE - Getuța DOPCEA, Alina Elena NANU, Ioan DOPCEA, Călina Petruța CORNEA, Camelia Filofteia DIGUȚĂ, Florentina MATEI	154
5. PURIFICATION FLOW OF COSMETIC CAMELINA OIL - Ana-Simona COPACI, Ștefana JURCOANE	158

SUBSECTION IV: INDUSTRIAL AND ENVIRONMENTAL BIOTECHNOLOGY

1. BIOTECHNOLOGICAL APPROACHES TO <i>Paulownia</i> IN VITRO PROPAGATION AND IN VIVO ADAPTATION - Anastasya FOKINA, Tetiana SATAROVA, Kateryna DENYSIUK, Mykola KHARYTONOV, Mykhaylo BABENKO, Iryna RULA	167
2. THE GIANT BAMBOO AND THE EVOLUTION OF THE EUROPEAN INDUSTRY TOWARDS THE SUSTAINABILITY OF MATERIALS - Davide VITALI, Ricuța-Vasilica DOBRINOIU	177

3. BIOTECHNOLOGICAL ASPECTS OF FERULOYL ESTERASE - Aglaia POPA (BURLACU), Florentina ISRAEL-ROMING, Călina Petruța CORNEA, Maria Mihaela ZUGRAVU (MICUȚI)	187
4. EFFECT O SOME STRESSORS ON BIOLOGICAL AND BIOCHEMICAL PARAMETERS IN THE <i>Rd</i> GREEN MICROALGA - Ana-Valentina ARDELEAN, Călina Petruța CORNEA, Cristina MOISESCU, Ioan ARDELEAN	193
5. SCREENING OF HALOTOLERANT BACTERIA PRODUCING HYDROLYTIC ENZYMES WITH BIOTECHNOLOGICAL APPLICATIONS - Irinel Gabriel PROCA, Camelia Filofteia DIGUȚĂ, Ștefana JURCOANE, Florentina MATEI	197

SUBSECTION V: MISCELLANEOUS

1. DIMINISHING FOOD LOSS AND WASTE: A CHALLENGE TO MAINTAIN SUSTAINABLE FOOD CHAIN AND COMBAT THE GLOBAL PROBLEM OF HUNGER AND MALNUTRITION - Imana PAL	205
2. RESEARCH ON THE POTENTIAL COSMETIC APPLICATION OF A POLY-HERBAL PREPARATION - Alice GRIGORE, Svetlana COLCERU-MIHUL, Corina BUBUEANU, Lucia PIRVU, Roxana MATEI, Ionica BAJENARU, Ileana Paraschiv, Cornelia NICHITA	209
3. IDENTIFICATION OF OUTDOOR POLLEN - RESULTS FROM A POLLEN TRAPPING EXPERIMENT - Monica ENACHE, Matei COMAN, Marius HANGAN	214