

## SUMMARY

### AGRICULTURAL BIOTECHNOLOGY

Preliminary studies on <i>in vitro</i> behavior of various somatic explants from some cultivated <i>Amaranthus</i> genotypes - Silvana DĂNĂILĂ GUIDEA, Narcisa BĂBEANU, Ovidiu POPA, Denisa STANCIU, Ioana POPA .....	9
Biological characterization of some microorganisms of biotechnological interest - Mihaela-Monica DINU, Cristina FĂTU, Ana-Maria ANDREI .....	15
Isolation and identification of local wine yeast strains from Dealurile Bujorului vineyard - Adrian GĂGEANU, Gheorghe CÂMPEANU, Camelia DIGUȚĂ, Florentina MATEI .....	22
The influence of growth regulators concentrations on <i>in vitro</i> micropropagation of <i>Ribes rubrum</i> species - Carmen Gabriela MANOLE, Viorica BĂLAN, Ioana Claudia MENCINICOPSCHI, Diana GOLEA, Steliana RODINO, Alina BUTU .....	26
Bio-based composite use in fertilization of petunia and carnation culture - Gabriela NEAȚĂ, Mona POPA, Amalia MITELUT, Silvana GUIDEA, Bela PUKANSKI .....	30
The semi-solid state cultivation of edible mushrooms on agricultural organic wastes - Marian PETRE, Violeta PETRE .....	36
Researches regarding the image analysis in wheat quality evaluation - Ciprian Nicolae POPA, Radiana Maria TAMBA-BEREHOIU, Stela POPESCU .....	40
Defense response induced in tomato plants ( <i>Lycopersicon Esculentum</i> ) by microbial infections - Gabriela POPA, Loredana POHRIB, Călina Petruța CORNEA .....	45
Research on biocomposite compost influence on the development of hybrid tomato seedlings "SYMPATHIE" F1 (family <i>Solanaceae</i> ) - Mona Elena POPA, Gabriela NEAȚĂ, Silvana Mihaela DANAILA-GUIDEA, Nicolae Florian CISMARU, Amalia MITELUT, Steven VERSTICHEL .....	50
Ecological products for agriculture - Nicoleta RADU, Ana Aurelia CHIRVASE, Nela ZAMBILA .....	56
Screening of antagonistic <i>Trichoderma</i> for biocontrol activities on phytopathogens - Iuliana RAUT, Mariana CONSTANTIN, Gelu VASILESCU, Luiza JECU, Tatiana ȘESAN .....	63
New screening methods for evaluation of <i>Fusarium</i> sporulation inhibition by <i>Bacillus</i> biocontrol strains - Oana-Alina SICUIA, Florin OANCEA, Călina-Petruța CORNEA .....	67
The effect of the <i>Fusarium</i> sp. attack on the quality parameters of Romanian wheat - Radiana Maria TAMBA-BEREHOIU, Ciprian Nicolae POPA, Stela POPESCU, Alexandru SUCIU .....	73

### FOOD BIOTECHNOLOGY

Preliminary study of lactic acid production from inulin hydrolysates using <i>Lactobacillus acidophilus</i> LA-5 - Octavian BASTON, Camelia NEAGU BONCIU, Gabriela BAHRIM .....	79
Comparative study of the antioxidants content in some berries fruits - Gabriela LUȚĂ, Florentina ISRAEL-ROMING, Daniela BĂLAN, Evelina GHERGHINA, Nicolae GONȚEA, Mihai CURTAȘU .....	86
Biotechnology of submerged fermentation to produce nutritive mycelial biomass through controlled cultivation of edible and medicinal mushrooms - Marian PETRE, Alexandru TEODORESCU, Florin PĂTRULESCU .....	89
Variability of polyphenolic composition of quality red wines depending on the origin of raw material and winemaking conditions - Luminița VIȘAN, Diana GROPOȘILĂ-CONSTANTINESCU .....	94

## INDUSTRIAL AND ENVIRONMENTAL BIOTECHNOLOGY

<b>A new biotechnological medium for biotransformation of substrates with different water-solubility</b> - Melania-Liliana ARSENE, Mihaela DONI, Luiza JECU, Emilia OCNARU, Gelu VASILESCU .....	99
<b>Optimisation of culture medium to obtain maximal increase of the extracellular starch degradation activity by the enzymes as products released of the <i>Acidiphilum</i> genus</b> - Carmen Mădălina CISMASIU .....	103
<b>Colonization and degradation of polyethylene composites by fungal strains isolated</b> - Mariana CONSTANTIN, Iuliana RAUT, Gelu VASILESCU, Melania Liliana ARSENE, Luiza JECU .....	109
<b>Enzymatic bioprocessing of vegetable oils for the production of biodiesel</b> - Alexandra GHIORGHITĂ, Gheorghe CÂMPEANU, Mircea POPESCU, Florentina ISRAEL, Gabriela NEAȚĂ .....	113
<b>Studies on biodegradation of tanned leather</b> - Florentina ISRAEL-ROMING, Evelina GHERGHINA, Gabriela LUȚĂ Daniela BĂLAN, Alina POPA, Roxana ȘTEFAN, Carmen CÎMPEANU, Călina Petruța CORNEA .....	119
<b>Study of high efficiency systems to ractopmine detection in environmental samples</b> - Simone PERAZZOLI, Maíra MALLMANN, Estela NUNES .....	124

## FOOD SAFETY

<b>Research regarding the sensory characteristics of some vegetables</b> - Manuela Adriana COSTACHE, Gheorghe CÂMPEANU, Gabriela NEAȚĂ .....	135
<b>Preliminary research to develop active packaging for bakery products using essential oils</b> - Alina A. DOBRE, Petru NICULITĂ .....	139
<b>Evaluating some sensorial, physic-chemical and microbiological characteristics of peas preserved by usual methods</b> - Nicușor DOBREA, Mira TURTOI, Mihaela GHIDURUS .....	145
<b>Organic versus conventional food products: physico-chemical and microbiological comparative analysis</b> - Mihaela DRĂGHICI, Petru NICULITĂ, Mihaela GEICU, Alexandra POPA, Denisa DUȚĂ .....	149
<b>Comparing some characteristics of fresh, frozen and canned strawberries</b> - Raluca NĂSTASE, Mira TURTOI, Mihaela GHIDURUS .....	156
<b>Prevalent <i>Salmonella</i> serotypes in some Romanian poultry farms</b> - Elena ROTARU, Stelian BARAITAREANU, Sorin PARVU, Doina DANES .....	160
<b>Quality attributes of fresh-cut lettuce treated with cold plasma</b> - Irina SMEU, Matthias BAIER, Antje FRÖHLING, Anca Ioana NICOLAU, Mona Elena POPA, Oliver SCHLÜTER .....	164

## MISCELLANEOUS

<b>In vitro evaluation of the relationships between some fungal pathogens of black currant crop and some saprophytic fungi</b> - Eugenia PETRESCU, Tatiana-Eugenia ȘESAN, Maria OPREA .....	175
<b>Risk factors for human giardiasis in two Romanian counties</b> - Mala-Maria STAVRESCU-BEDIVAN, Mioara VARGA .....	179
<b>A study of stochastic model to predict the growth evolution of food born moulds</b> - Mioara VARGA, Florentina MATEI, Mala-Maria STAVRESCU-BEDIVAN .....	182