

CONTENT

Marius Mihășan, Vlad Artenie, Roderich Brandsch – Cloning and purification of a tetrameric oxidoreductase from <i>Arthrobacter nicotinovorans</i> pAO1	.....	1
Cristina Sturzoiu, Andrei Tanase, Anca Dinischiotu, Gheorghe Stoian – <i>Zymomonas mobilis</i> levan production in the presence of antimetabolic angents	.....	7
Andrei Tănase, Cristina Sturzoiu, Iulia Florescu, Gheorghe Stoian – Studies regarding chaotropic effects of sodium perchlorate on <i>Zymomonas mobilis</i> bacterial membrane	.....	15
Andrei Lobiuc, Zenovia Olteanu, Marius Mihășan – Studies regarding cellulolytic enzymes production by bacterial strains isolated from natural environments, grown in liquid media with raw and pretreated sawdust	.....	25
Zenovia Olteanu, Ștefania Surdu, Crăița Roșu, Elena Truță, Maria Magdalena Zamfirache, Lăcrămioara Oprică – Dynamics of alkaloid biosynthesis in correlation with lipid biosynthesis in submerged cultivated strains of <i>Claviceps purpurea</i>	.....	33
Alexandru Manoliu, Elena Tutu, Lăcrămioara Oprică, Elena Ciornea, Petronela Grădinariu – Influence of the culture medium pH on the activity of some oxidoreductases in <i>Monilinia laxa</i> (Aderh.&Ruhl) honey parasite on plum	.....	41
Alexandru Manoliu, Mihaela Bălan, Lăcrămioara Oprică, Petronela Grădinariu – The evolution of catalase and peroxidase activity in <i>Phanerochaete chrysosporium</i> grown on media containing beech and fir sawdust and under the influence of some amino acids	.....	47
Monica Tatarciuc, Ionut Cristian Zamfirache, Marius Stefan, Anca Vitalariu, Diana Diaconu – Microbiologic study regarding the risk of cross infection in the technical laboratory	.....	53
Ema Achitei, Marius Stefan, Marius Mihăsan, Lucian Hritcu, Simona Dunca – Siderophores and indole-3-acetic acid production by bacterial strains isolated from soybean rhizosphere	.....	59

Andreea Apostu, Narcis Petriman, Iulian Trăsnea, Marius Mihasan, Simona Dunca, Marius Stefan – Isolation and characterization of some rhizobacterial strains with phosphorus solubilizing capabilities	.....	67
Simona Dunca, Marius Ștefan, Mariana Murgoci – The influence of fertilization on the quantitative distribution of denitrifying bacteria in the soil	.....	75
Marius Mihășan, Vlad Artenie, Zenovia Olteanu – In- silico identification of key residues for shifting the coenzyme specificity of an aldehyde-dehydrogenase	.....	81
Vasilica Manea, Andrei Tănase, Angela Casarica, Radu Albulescu, Georgeta Rădulescu, Gheorghe Câmpeanu, Florentina Israel-Roming, Gheorghe Stoian – Study of the chemical composition of sweet sorghum stalks depleted in carbohydrates with applications in obtaining bioethanol	.....	87
Sabina Ioana Cojocaru, Miruna Stan, Elena Ciornea, Dumitru Cojocaru, Gogu Ghiorghiță, Anca Dinischiotu, Gheorghe Stoian – Studies regarding the chromatographic separation of some <i>Chelidonium majus</i> L. alkaloids using different solvent systems	.....	97
Sabina Ioana Cojocaru, Mihai Anton, Miruna Stan, Elena Ciornea, Gogu Ghiorghita, Anca Dinischiotu, Gheorghe Stoian – Studies regarding the analysis of different extraction conditions for the separation of <i>Chelidonium majus</i> L. alkaloids	.....	107
Nicoleta Bădăluță, Zenovia Olteanu, Lăcrămioara Opriță, Gogu Ghiorghiță – The contents variations of the carotenoid pigments and total lipids in seabuckthorn false fruit and fruit	.....	117
Nicoleta Bădăluță, Maria-Magdalena Zamfirache, Lăcrămioara Opriță, Zenovia Olteanu, Gogu Ghiorghiță – The monthly dynamics of the protein biosynthesis in the leaves harvested from <i>Hippophae</i> <i>rhamnoides</i> L. varieties	.....	123
Cristian S. Cîmpeanu, Mirela M. Cîmpeanu, Calin L. Maniu – Electromagnetic radiation influence on some physiological and cytogenetic parameters in <i>Secale</i> <i>cereale</i> L.	.....	129

Mirela M. Cîmpeanu, Lucian Gorgan, Cristian S. Cîmpeanu – Cytogenetic effects induced by bark extract from <i>Hippophae rhamnoides</i> on <i>Secale cereale</i> L.	.....	135
Smaranda Vantu – In vitro multiplication of <i>Jovibarba sobolifera</i>	.....	145
Smaranda Vantu – In vitro cultivation of the endemic species <i>Andryala levitomentosa</i>	.....	151
Mihaela-Liliana Ionescu, Dragoș Lucian Gorgan, Mirela Mihaela Cîmpeanu, Gogu Ghiorghită – Carassius genetic diversity investigation from Tautesti Lake (lasi County)	.....	155
Călin Lucian Maniu, Ion Neacsu, Cristian Câmporeanu – Low frequency low intensity pulse electromagnetic field in vivo influence on blood cells permeability in rat	.....	163
Călin Lucian Maniu, Lucian Hrițcu – Low frequency low intensity pulse electromagnetic field in vivo influence on immune capacity in rat	.....	171
Ana-Maria Stratulat, Elena Ciornea, Gabriela Dumitru, Sabina Ioana Cojocaru – Data on the activity of superoxide-dismutase and catalase in two summer-old <i>Ctenopharyngodon idella</i> species	.....	177
Andrei Alexandru Constantinescu, Maria Dobreanu, George Popoiu, Andrei Tănase, Cristina Sturzoiu, Ghorghe Stoian – Studying the aging of banked erythrocytes using a fluorescence marker, hypericin	.....	183
Irina Dobrin, Alin Ciobica, Manuela Padurariu, Bogdan Stoica, Cristinel Stefanescu, Roxana Chirita – Comparison between the effects of typical and atypical antipsychotics on oxidative stress status in schizophrenic patients	.....	197
Irina Dobrin, Lucian Hritcu, Alin Ciobica, Romeo Dobrin – Spatial memory deficits induced by systemic lipopolysaccharide administration	.....	203
Lucian Hritcu, Marius Stefan, Marius Mihasan, Roderich Brandsch – 6-hydroxy-L-nicotine from <i>Arthrobacter nicotinovorans</i> facilitate spatial memory formation in rats	.....	207

Mihai Bularda Morozan, Dumitru Cojocaru – Biochemical changes in the multiple myeloma	.....	213
Csilla Iuliana Băra, Camelia Greșanu – Research regarding the frequency of AB0 blood groups in a population of pupils from Piatra Neamț, Neamț County	.....	223
Cristina Maxim, Dumitru Cojocaru – Dynamics of some water quality indicators on Șomuzu Mare River during 2008	.....	229
Zenovia Olteanu, Mihaela Scutaru, Marius Mihășan – Chemical and biochemical indicators in the characterization of polluted waters from the Bahlui River, Iasi city sector	.....	233
Cristina Maxim, Valerian Antohe, Dumitru Cojocaru – Study concerning the mathematical simulation and the interpretation of quality indicators of Suceava River	.....	245
Instructions for Authors	.....	255