

CONTENTS

Alfonsas MERKYS. On the 100 th anniversary of Professor Jonas Dagys.....	1
Genetics	
Reza MAALI A., Irina V. GOLDENKOVA-PAVLOVA, Vasiliy P. PCHELKIN, Vladimir D. TSYDENDAMBAEV, Dimitry A. LOS, Alexander M. NOSOV. Acyl-lipid Δ12-desaturase of the cyanobacterium increases the unsaturation degree in transgenic potato (<i>Solanum tuberosum</i> L.)	4
J. PROSCEVIČIUS, V. RANČELIENĖ, D. DAMBRAUSKAITĖ. Cytogenetic analysis of progeny derived from allotriploid inter-specific hybrids of <i>Lilium</i>	8
Biochemistry	
Edvardas KAZLAUSKAS, Vytautas A. ŠLAPAKAUSKAS, Zigmuntas J. BERESNEVIČIUS, Ingrida TUMOSIENĖ. Effect of β-alanine hydrazide derivatives on <i>Phaseolus vulgaris</i> photochemistry and CO ₂ assimilation	13
Dariusz LATOWSKI, Reimund GOSS, Joanna GRZYB, Hans-Erik AKERLUND, Kveta BURDA, Jerzy KRUK, Kazimierz STRZAŁKA. De-epoxidases of xanthophyll cycles require non-bilayer lipids for their activity.....	16
Plant Biotechnology	
N. BURBULIS, A. BLINSTRUBIENĖ, A. SLIESARAVIČIUS, R. KUPIRIENĖ. Some factors affecting callus induction in ovary culture of flax (<i>Linum usitatissimum</i> L.)	21
Simas GLIOŽERIS, Alfonsas TAMOŠIŪNAS, Laimutė ŠTUOPYTĖ. Effect of some growth regulators on chlorophyll fluorescence in <i>Viola × wittrockiana</i> 'Wesel Ice'.....	24
Signe TOMSONE, Ārija GALENIECE, Agnese AKERE, Gunta PRIEDE, Lita ZĪRA. <i>In vitro</i> propagation of <i>Syringa vulgaris</i> L. cultivars	28
Microbiology	
Vytautas MELVYDAS, Elena SERVIENE, Olga CERNISHOVA, Giedre PETKUNIENE. A novel X factor secreted by yeast inhibits <i>Saccharomyces cerevisiae</i> K1, K2 and K28 killer toxins	32
Plant Immunology	
D. VALIŪNAS, L. URBANAVIČIENĖ, R. JOMANTIENĖ, R. E. DAVIS. Molecular detection, classification and phylogenetic analysis of subgroup 16SrI-C phytoplasmas detected in diseased <i>Poa</i> and <i>Festuca</i> in Lithuania	36
Plant Physiology	
J. DARGINAVIČIENĖ, J. ŽEMĖNAS, S. JURKONIENĖ, I. MEŠKIENĖ, V. ŠVEIKAUSKAS, L. CHRAMOVA, N. BAREIKIENĖ. Signalling of indole-3-acetic acid: inhibitory analysis of MAP kinase / phosphatase pathways	40
M. JODINSKIENĖ, N. ANISIMOVİENĖ. Peculiarities of two different IAA binding sites functioning in kidney bean hypocotyl plasmalemma cell.....	44
N. PETRAITYTĖ, A. SLIESARAVIČIUS, A. DASTIKAITĖ. Potential reproduction and real seed productivity of <i>Vicia villosa</i> L.....	48
Antonina F. POPOVA, Galina F. IVANENKO. Embryogenesis in <i>Sium latifolium</i> L. (Umbelliferae) under different water regimes.....	52
Danguolė RAKLEVICIENĖ, Danguolė ŠVEGŽDIENĖ, Ramunė STANEVIČIENĖ, Regina LOSINSKA. Effects of illumination on the growth and histogeny of garden cress seedlings under altered gravity	55
D. SMALIUKAS, R. NOREIKA, D. KARALIUS. Clonal selection of <i>Salix</i> L. taxa perspective for biofuel production, evaluation of their dendrometric characteristics and accumulation of biomass in short rotation plantations	59
Danguolė ŠVEGŽDIENĖ, Danguolė RAKLEVICIENĖ, Dalia KORYZNIENĖ. Gravisioning in hypocotyls and roots of garden cress seedlings	63
R. VYŠNIAUSKIENĖ, V. RANČELIENĖ, A. RADŽIŪNAITĖ-PAUKŠTIENĖ, R. SPALINSKAS. The UV-B impact upon the enzyme of antioxidant system superoxide dismutase (SOD) of potato somatic hybrids	67



Biologija

Molekulinė biologija • Genetika • Biochemija •
Biofizika • Biotechnologija • Mikrobiologija •
Virusologija • Imunologija • Fiziologija •
Ląstelės biologija • Bendroji biologija

Molecular Biology • Genetics • Biochemistry •
Biophysics • Biotechnology • Microbiology •
Virology • Immunology • Physiology •
Cell Biology • General Biology