

---

# Contents – Turinys

---

## The Problems of Botany and Mycology in Lithuania. Proceedings of the conference in honour of eminent botanists of Vilnius University

### Part Two. Plant Physiology

<i>Brazaitytė A., Duchovskis P., Juknys R., Žukauskaitė I.</i> Influence of unfavourable natural factors and pollutants on the complex of tomato photosynthetic pigments .....	4
Santrauka .....	7
<i>Būdydytė A.</i> The effect of long-term storage conditions on seed germination in vegetables and medicinal plants .....	8
Santrauka .....	10
<i>Darginavičienė J., Maksimov G.</i> The role of basipetal IAA transport in the hormonal regulation of plant cell growth .....	11
Santrauka .....	13
<i>Duchovskienė Z., Šikšnianienė J.</i> Peroxidase isoenzymic spectra of cabbage, kohlrabi and red beet during flowering induction and generative development .....	14
Santrauka .....	16
<i>Kenstavičienė P.</i> Influence of gravity on the meristem structure of primary cress ( <i>Lepidium sativum</i> L.) roots .....	17
Santrauka .....	20
<i>Kmitienė G., Ragažinskienė O.</i> Anatomic structure of axial organs of <i>Echinacea purpurea</i> (L.) Moench .....	21
Santrauka .....	24
<i>Kupčinskienė E.</i> <i>Pinus sylvestris</i> needle surface characteristics in alkalisied environment .....	25
Santrauka .....	27
<i>Lapinskas E.</i> Efficiency of combination of phytohormones and <i>R. leguminosarum</i> <i>bv. trifolii</i> and <i>S. meliloti</i> strains for clover and lucerne .....	28
Santrauka .....	30
<i>Lisova R.</i> Efficiency of pesticides in spring barley sowing .....	31
Santrauka .....	33
<i>Maksimov G., Šveikauskas V.</i> Isolation and characteristics of closed inverted fragments of plant cell plasmalemma .....	34
Santrauka .....	36
<i>Miliuvienė L., Gavelienė V.</i> The effect of diethylamine derivative (3-DEC) on modification of barley and rape stem growth .....	37
Santrauka .....	39

<i>Novickienė L., Gavelienė V.</i> Physiological potentials for rape ( <i>Brassica napus</i> L.) yield improvement .....	40
Santrauka .....	42
<i>Petronienė D., Duchovskienė Z.</i> Generative development of various red beet cultivars after flowering induction .....	43
Santrauka .....	46
<i>Ramaškevičienė A., Kupčinskienė E., Sliesaravičius A., Blažytė A.</i> Physiological responses of Lithuanian cultivars of <i>Hordeum sativum</i> ssp. <i>distichum</i> L. to Al exposure .....	47
Santrauka .....	49
<i>Ričkienė A.</i> New ideas in plant genetics and physiology in Lithuania during the 7 <sup>th</sup> decade .....	50
Santrauka .....	53
<i>Skuodienė L.</i> Quantitative changes in aminoacid proline and chlorophyll in the needles of <i>Picea abies</i> Karst. (L.) during stress and adaptation .....	54
Santrauka .....	56
<i>Šlepetys J.</i> Changes in the chemical composition of grass seed and stem during the period of ripening .....	57
Santrauka .....	61
<i>Švegždienė D., Koryznienė D., Laurinavičius R.</i> Structure and functioning of statocytes in <i>Lepidium</i> seedlings grown in weightlessness and under 1 g conditions .....	62
Santrauka .....	64

### Part Three. Plant Ecology and Population Biology

<i>Bakūnaitė J., Kostkevičienė J.</i> Phytoplankton dynamics in the Skroblus River longitudinal section (South East Lithuania) .....	66
Santrauka .....	69
<i>Balevičius A.</i> Distribution of <i>Lychnothamnus barbatus</i> community in Lithuania .....	70
Santrauka .....	73
<i>Čiuberkis S.</i> Changes in weed flora depending on the rate of manure on acid and limed soils .....	74
Santrauka .....	76
<i>Kalinauskaitė N., Naujalis J. R.</i> The liverwort flora of Vištytis Regional Park .....	77
Santrauka .....	79
<i>Kasperovičienė J.</i> The summer phytoplankton structure of some lakes located in Lithuanian protected areas .....	80
Santrauka .....	83
<i>Kostkevičienė J., Bakūnaitė J., Naujalis J. R.</i> Analysis of phytoplankton structure in Lithuanian rivers .....	84
Santrauka .....	87

<i>Meškauskaitė E., Naujalis J. R.</i> Some aspects of composition dynamics of <i>Primula farinosa</i> L. populations .....	88	<i>Prigodina-Lukošienė I., Naujalis J. R.</i> Methods used to study the epiphytic lichen communities in oak woods of Lithuania .....	102
Santrauka .....	90	Santrauka .....	104
<i>Motiekaitytė V.</i> Plant associations of <i>Dauco-Melilotion</i> alliance in Lithuania .....	91	<i>Stankevičiūtė J.</i> Correlation between species number and homogeneity in plant communities of the Lithuanian seacoast .....	105
Santrauka .....	95	Santrauka .....	107
<i>Olšauskas A. M., Olšauskaitė Urbonienė R.</i> Anthropogenic impact on the population of <i>Lathyrus maritimus</i> (L.) Bigelow on the Lithuanian protective coastal dune .....	96	<i>Sprainaitis A., Paplauskienė V.</i> Development of white clover cv. 'Sūduviai' in communities of various grass species .....	108
Santrauka .....	98	Santrauka .....	110
<i>Ozolinčius R., Stakėnas V.</i> Effects of air pollution and droughts on forest condition in Lithuania .....	99	<i>Pukienė R.</i> Natural changes in bog vegetation reconstructed by sub-fossil tree remnant analysis .....	111
Santrauka .....	101	Santrauka .....	113