

Списък на научните публикации за участие в конкурса за „доцент“ (2003-2017)

на главен асистент Григор Трайков Зехиров, лаборатория Растително-почвени взаимодействия
Институт по физиология на растенията и генетика

1. Boycheva I, Vassileva V, Revalska M, **Zehirov G**, Iantcheva A. Role of the histone acetyltransferase HAC1 gene in development of the model species *Medicago truncatula*, *Lotus japonicus* and *Arabidopsis thaliana*. *Protoplasma*, 2016, ISI IF:2.343
2. Boycheva I, Vassileva V, Revalska, M, **Zehirov G**, Iantcheva A. Cyclin-like F-box protein plays a role in growth and development of the three model species *Medicago truncatula*, *Lotus japonicus* and *Arabidopsis thaliana*. *Research and Reports in Biology*, 6, Dovepress, 2015, DOI:http://dx.doi.org/10.2147/RRB.S84753, 117-130
3. Doncheva S, Stoyanova Z, Georgieva K, Nedeva D, Dikova, R, **Zehirov G**, Nikolova A. Exogenous succinate increases resistance of maize plants to copper stress. *Journal of Plant Nutrition and Soils Sciences*, 169, 2, Wiley, 2006, DOI:10.1002/jpln.200520560, 247-254. ISI IF:1.459
4. Geneva M, **Zehirov G**, Stancheva I, Georgiev G. Effect of soil fertilizer, foliar fertilizer, and growth regulator application on milk thistle (*Silybum marianum* L.) development, seed yield, and silymarin content. *Communications in Soil Science and Plant Analysis*, 39, 1-2, Taylor and Francis, 2008, ISSN:0010-3624, 17-24. ISI IF:0.39
5. Geneva M, **Zehirov G**, Djonova E, Kaloyanova N, Georgiev G, Stancheva I. The effect of inoculation of pea plants with mycorrhizal fungi and *Rhizobium* on N and P assimilation. *Plant, Soil and Environment*, 52, 10, Czech Academy of Agricultural Sciences, 2006, ISSN:1805-9368, 435-440. ISI IF:1.078
6. Iantcheva A, Revalska M, **Zehirov G**, Boycheva I, Magne K, Radkova M, Ratet P, Vassileva V. Tnt1 retrotransposon as an efficient tool for development of an insertional mutant collection of *Lotus japonicus*. *In Vitro Cell.Dev.Biol.—Plant*, 52, 2016, 338-347. ISI IF:1.152
7. Iantcheva A, Revalska M, **Zehirov G**, Vassileva V. Agrobacterium-mediated transformation of *Medicago truncatula* cell suspension culture provides a system for functional analysis. *In Vitro Cellular and Developmental Biology – Plant*, 50, 2, 2014, 147-157. ISI IF:1.139
8. Ishihara H, Koriyama H, Osawa A, **Zehirov G**,, Uchiumi T. Characteristics of bacteroids in indeterminate nodules of the leguminous tree *Leucaena glauca*. *Microbes and Environments*, 26, 2, 2011, 156-159. ISI IF:1.906
9. Revalska M, Vassileva V, **Zehirov G**, Goormachtig S, Iantcheva A. Assessment of the function and expression pattern of auxin response factor B3 in the model legume plant *Medicago truncatula*. *Turkish Journal of Biology*, 40, 2016, 1602-36.
10. Revalska M, Vassileva V, **Zehirov G**, Iantcheva A. Analysing the function and the expression pattern of auxin response factor B3 from *Medicago truncatula* in the model plant *Lotus japonicus*. *Bulgarian Journal of Agricultural Science*, 22, 2, 2016, 253-261. ISI IF:0.14
11. Revalska M, Vassileva V, **Zehirov G**, Iantcheva A. Evaluation of the function and expression pattern of *Medicago truncatula* Auxin Response Factor B3 after heterologous expression in *Arabidopsis thaliana*. *Bulgarian Journal of Agricultural Science*, 2016, ISI IF:0.14

12. Revalska M, Vassileva V, **Zehirov G**, Iantcheva A. Is the auxin influx carrier LAX3 essential for plant growth and development in the model plants *Medicago truncatula*, *Lotus japonicus* and *Arabidopsis thaliana*?. *Biotechnology and Biotechnological Equipment*, 29, 4, 2015, 786-797. ISI IF:0.3
13. Simova-Stoilova L, Kirova E, **Zehirov G**, Vaseva I, Feller U. Aminopeptidase activities in roots and leaves of drought stressed winter wheat seedlings. *Genetics and Plant Physiology*, 6, 3-4, Prof. Marin Drinov Academic Publishing House, 2016, ISSN:1314-6394, 116-134
14. Stancheva I, Geneva M, **Zehirov G**, Georgiev G. Effects of foliar fertilizer concentration on the biomass accumulation and nitrate assimilation rate of milk thistle (*Silybum marianum* L.). *Proceedings from Balkan Scientific Conference of Biology in Plovdiv*, 2005, 343-348.
15. Stancheva, I, Geneva, M, **Zehirov G**, Tsvetkova, G, Hristozkova, M, Georgiev, G. Effects of combined inoculation of pea plants with arbuscular mycorrhizal fungi and *Rhizobium* on nodule formation and nitrogen fixing activity. *General Appl. Plant Physiol.*, special issue, Institute of Plant Physiology and Genetics - Bulgarian Academy of Sciences, Printing House The Prof. Marin Drinov Academic Publishing House, 2006, ISSN:1314-5770, 61-66
16. Van de Velde W, **Zehirov G**, Szatmari A, Mergaert P. Plant peptides govern terminal differentiation of bacteria in symbiosis.. *Science*, 2010, DOI:10.1126/science.1184057, 1122-1126. ISI IF:31.364
17. Vaseva I, **Zehirov G**, Kirova E, Simova-Stoilova L. Transcript profiling of serine- and cysteine protease inhibitors in *Triticum aestivum* varieties with different drought tolerance. *Cereal Research Communications*, 44, 1, Akadémiai Kiadó, 2016, ISSN:0133-3720, DOI:http://dx.doi.org/10.1556/0806.43.2015.032, 79-88. ISI IF:0.607
18. Vaseva, I, **Zehirov G**, Stoychev V, Kirova E, Simova-Stoilova L, Kidrič M. Semi-quantitative RT-PCR analysis of selected protease inhibitors in drought-stressed *Triticum aestivum*.. *Genetics and Plant Physiology Special Issue*, 4, 1-2, 2014, 57-67
19. Vassileva V, **Zehirov G**, Ugrinova M, Iantcheva, A. Variable leaf epidermal morphology in Tnt1 insertional mutants of the model legume *Medicago truncatula*. *Biotechnology & Biotechnological Equipment*, 24, 4, 2010, 2060-2065. ISI IF:0.503
20. **Zehirov G**, Georgiev G. Changes in beta-glucosidase activity related to the phenolic content in apoplast of boron deficient soybean root during infection with *Bradyrhizobium japonicum*. *Comp. Rend de l'Acad. Bulg. Des Sci.*, 56, 8, 2003, 55-60
21. **Zehirov G**, Georgiev G. Effect of boron starvation on the apoplastic and total solute concentrations influencing nodule growth and acetylene reduction rate. *Bulg. J. Plant Physiol.*, Special issue, 2003, 367-373
22. **Zehirov G**, Georgiev G. Effects of boron starvation on lignin content and mineral composition of N₂-fixing soybean plants (*Glycine max* L. *merr*). *Proceedings from Balkan Scientific Conference of Biology in Plovdiv*, 2005, 373-380
23. **Zehirov G**, Georgiev G. Relationships between cell membrane stability, exudate content and infectivity of *Bradyrhizobium japonicum* strain 639 to boron starved soybean plants.. *Acta Physiol. Plant.*, 28, 2, 2006, ISSN:0137-5881, 523-531. ISI IF:0.528
24. **Zehirov G**, Stancheva I, Geneva M, Georgiev G. Comparison of the effects of different site of supply (root or foliar) of phosphate and nitrate on the growth and nitrate assimilation enzymes activity in Milk Thistle (*Silybum Marianum* L.) plants. *Ecololy and Future*, 4, 1, 2005, ISSN:1312-076X, 10-13

25. Станчева И, Генева М, Христовозкова М, Цветкова Г, **Зехиров Г**, Георгиев Г. Физиологическая роль некоторых минеральных элементов для образования клубеньков и фиксации атмосферного азота у бобовых растений. Известия ТСХА, 2, 2007, ISSN:ISSN 0021-342X, 99-103