

Списък на научните трудове на гл. ас. д-р Петя Николаева Първанова, представени във връзка с участието в конкурс за академичната длъжност „доцент” по професионално направление 4.3. Биологически науки, научна специалност „Генетика“

(1) Научни трудове, на основата на които е защитена дисертация

- (i1) Tzvetkova, N., **P. Parvanova**, Anev, S., Donev, E. Ozone monitoring in some urban and mountain regions of Bulgaria and the effect of ozone on tree vegetation. Environment and Ecology in the Mediterranean Region, Monograph, Cambridge scholars publishing, 2012, Chapter Twelve, 135-147, 423; ISBN (10): 1-4438-3757-1, ISBN (13): 978-1-4438-3757-6.
- (i2) **Първанова П.**, Н. Цветкова, Св. Братанова-Дончева, Р. Фикова, Светослав Анев. 2008. Експериментални методи за изследване на ефекта от тропосферен озон върху горски екосистеми. Лесовъдска мисъл, 1-2 (36), 97-112.
- (i3) **Parvanova P.** 2009. Responses of *Quercus robur* and *Quercus rubra* seedlings to ambient ozone based on some physiological characteristics and superoxide-dismutase activity. Forest science, 4, 3-17.

(2) Научни трудове извън дисертацията

В4 - Хабилизационен труд – научни публикации в издания, които са реферирани и индексирани в световноизвестни бази данни с научна информация

- B4.1.** Chankova, S., Todorova, T., **Parvanova, P.**, Miteva, D., Mitrovska, Z., Angelova, O., Imreova, P., Mucaji, P. Kaempferol and jatropham: are they protective or detrimental for *Chlamydomonas reinhardtii*? Comptes rendus de l'Académie bulgare des Sciences, 2013, 66 (8), 1121- 1128, ISSN: 1310-1331, **IF=0.211, Q2**
- B4.2.** Angelova O., Miadokova E., **Parvanova P.**, Gregan F., Chankova S. Differences in the bioactivity of methanolic and water extracts of poppy (*Papaver rhoeas* L.). Compt. rend. Acad. bulg., 2014, 67, (2), 245-252, ISSN:1310-1331, **IF=0.211, Q3**
- B4.3.** **Parvanova, P.**, Todorova, T., Sidjimova, B., Nikolova, M., Berkov, S., Chankova, S. 2024. Narcissus cv. Hawera leaves' extract cleaves DNA in *Chlamydomonas reinhardtii* by inducing DSBs. Comptes rendus de l'Académie bulgare des Sciences, 77(3), 346-353. <https://doi.org/10.7546/CRABS.2024.03.04>, **IF=0.329, Q3**
- B4.4.** Dimitrova, M, Miteva, D, Todorova, T, **Parvanova, P**, Yovkova, M, Dimitrov, M., Chankova, S. DNA-repair deficient strains *Chlamydomonas reinhardtii* as good tools for environmental toxicology. Comptes rendus de l'Académie bulgare des Sciences, 75, 2, 2022, DOI:DOI:10.7546/CRABS.2022.02.07, 223-229, **IF=0.378, Q3**
- B4.5.** Chankova, S., **Parvanova, P.**, Yurina, N. 2024, Early warning signals of drought induced oxidative stress and genotype tolerance (mini review), Bulgarian Journal of Agricultural Science, accepted, **IF=0.5, Q3**

B4.6. Dimitrova, M., **Parvanova, P.**, Todorova T., Nikolova, M, Berkov, S, Chankova, S. Polar and non-polar fraction from *Origanum vulgare* spp. hirtum methanolic extract - differences in their bioactivity on *Chlamydomonas reinhardtii* test system. Biorisk, 17, Pensoft, 2022, DOI:<https://doi.org/10.3897/biorisk.17.78169>, 191-200, **SJR=0.235, Q2**

B4.7. Dimitrova, M, **Parvanova, P.**, Todorova, T, Dronchev, G, Nikolova, M, Berkov, S, Chankova, S. On the mode of action of *Origanum vulgare* spp. hirtum methanolic extract and essential oil on *Chlamydomonas reinhardtii*. Biorisk, 17, Pensoft, 2022, DOI:<https://doi.org/10.3897/biorisk.17.77313>, 179-190, **SJR=0.235, Q2**

B4.8. Todorova, T, **Parvanova, P.**, Çavuş, H, Yovkova, M, Dimitrova, M, Mohafrash, S, Mossa, AT, Boyadzhiev, K, Dimitrov, M., Chankova, S. Set of tests for chlorpyrifos toxicity screening. Ecologia Balkanica, Special Edition 3, 2020, 227-238, **SJR=0.13, Q2**

Г7. Научна публикация в издания, които са реферирани и индексирани в световноизвестни бази данни с научна информация (Web of Science и Scopus), извън хабилитационния труд

Г7.1. Todorova, T., Boyadzhiev, K., Dimitrov, M., **Parvanova, P.** Bee venom genotoxicity on *Saccharomyces cerevisiae* cells – The role of mitochondria and YAP1 transcription factor. Toxicology, 503, Elsevier, 2024, DOI:<https://doi.org/10.1016/j.tox.2024.153768>, **IF=4.5, Q1**

Г7.2. **Parvanova P.**, Tzvetkova N., Bratanova-Doncheva S., Chipev N., Fikova R., Donev E. Responses of *Fraxinus excelsior* L. seedlings to ambient ozone exposure in urban and mountain areas based on physiological characteristics and antioxidant activity. Environ Sci Process Impacts, 2013, 15(7): 1452-8. ISSN 2050-7887, **IF=2.225, Q1**

Г7.3. Chaneva, G., **Parvanova, P.**, Tzvetkova, N., Uzunova, A. Photosynthetic Response of Maize Plants Against Cadmium and Paraquat Impact. Water, Air, and Soil Pollution, 2010, 208 (1-4), 287-293, **IF=1.765, Q1**

Г7.4. Angelova, T., **Parvanova, P.**, Miteva, D., Chankova, S. Set of reliable markers for the evaluation of drought induced stress in *Phaseolus vulgaris* L. Genotypes. Comptes Rendus de L'Academie Bulgare des Sciences. Volume 70, Issue 10, 2017, pp. 1411-1420, **IF=0.270, Q2**

Г7.5. Lyubenova, M., Dineva, S., Georgieva, N., Miteva, T., Karadjova, I. and Parvanova, P., 2012. Ecotoxicological Assessment Model of Cultural Plant-Soil Complex Treated with Waste Water. *Biotechnology & Biotechnological Equipment*, 26(2), pp.2883-2893. DOI: 10.5504/bbeq.2011.0158; ISSN 1310-2818, **IF=0.760, Q3**

Г7.6. Todorova, T., Ivanova, I., **Parvanova, P.**, Chankova, S. 2024. *Clinopodium vulgare* L. extract counteracts DNA damaging action of radiomimetic Zeocin accelerating DSBs rejoining in *Saccharomyces cerevisiae*, Comptes rendus de l'Académie bulgare des Sciences, 77(2), 196-203, <https://doi.org/10.7546/CRAbs.2024.02.04>, **IF=0.3, Q3**

Г7.7. Shaban, N.T., Tzvetkova, N., Cherkez, R., **Parvanova, P.** Evaluation of response of lettuce (*Lactuca sativa* L.) to temperature and light stress. Acta Agrobotanica. Volume 69, Issue 2, 2016, Article number 1664, **SJR=0.229, Q3**

Г7.8. Todorova, T, Boyadzhiev, K, Shkondrov, A, **Parvanova, P**, Dimitrova, M, Ionkova, I, Krasteva, I, Kozuharova, E, Chankova, S. Screening of *Amorpha fruticosa* and *Ailanthus altissima* extracts for genotoxicity/antigenotoxicity, mutagenicity/antimutagenicity and carcinogenicity/anticarcinogenicity. Biorisk, 17, Pensoft, 2022, DOI:<https://doi.org/10.3897/biorisk.17.77327>, 201-212, **SJR=0.235, Q2**

Г7.9. Marinovska, P., Todorova, T., Tomova, A., Pisareva, E., Boyadzhiev, K., Dimitrov, M., **Parvanova, P.**, Todorova, M., Chankova, S., & Petrova, V. (2022). *Saccharomyces cerevisiae* yeast cells as a test system for assessing Zeocin toxicity. BioRisk, 17, 105-116. **SJR=0.235, Q2**

Г7.10. Marinovska, P., Todorova, T, Boyadzhiev, K., Pisareva, E., Tomova, A., **Parvanova, P.**, Dimitrova, M., Chankova, S, Petrova, V. Cellular susceptibility and oxidative stress response to Menadione of logarithmic, quiescent and nonquiescent *Saccharomyces cerevisiae* cell populations. Biorisk, 17, 2022, DOI:<https://doi.org/10.3897/biorisk.17.77320>, 127-138, **SJR=0.235, Q2**

Г7.11. Todorova TI, **Parvanova PN**, Boyadzhiev KP, Dimitrov MD, Chankova SG (2023) Genotype differences towards lead chloride harmful action. In: Chankova S, Danova K, Beltcheva M, Radeva G, Petrova V, Vassilev K (Eds) Actual problems of Ecology. BioRisk 20: 37–57. <https://doi.org/10.3897/biorisk.20.97598>, **SJR=0.3, Q2**

Г7.12. Chankova SG, Yurina NP, Todorova TI, **Parvanova PN** (2023) Does overproduction of chaperone proteins favour the repair of DNA injuries induced by oxidative stress? (Mini review). In: Chankova S, Danova K, Beltcheva M, Radeva G, Petrova V, Vassilev K (Eds) Actual problems of Ecology. BioRisk 20: 7–22. <https://doi.org/10.3897/biorisk.20.97569>, **SJR=0.3, Q2**

Г7.13. Svetleva, D, Krastev, VI., Dimova, D., Mitrovska, Zh, Miteva, D., **Parvanova, P.**, Chankova, S. Drought tolerance of Bulgarian common bean genotypes, characterized by some biochemical markers for oxidative stress. Journal of Central European Agriculture, 2012, 13(2), 349-361, DOI: 10.5513/JCEA01/13.2.1059, ISSN 1332-9049, **SJR=0.029, Q4**

Г8 - Публикувана глава от книга или колективна монография

8.1. Тодорова, Т, **Първанова, П**, Йовкова, М, Димитрова, М, Чанкова, С. Афицидна активност, генотоксичен и мутагенен потенциал на етерично масло от бял риган. Биоцидни свойства на етерично масло от *Origanum vulgare* subsp. *hirtum* (Link) letsw. (гръцки, бял риган), Интел Ентранс, 2021, 41-58. ISBN:978-619-7554-79-3

8.2. Chankova S., Todorova T. and **Parvanova P.** Does the DNA Protective Capacity of *Lilium candidum* Extract and its Components Depend on the Experimental Design? Cutting Edge Research in Biology Vol. 3, Chapter 7. pp. 90-100, DOI: 10.9734/bpi/cerb/v3/17472D

Списък на публикации, които не влизат в показателите за заемане на академична длъжност „доцент“

Пълни текстове и кратки съобщения

- ii1 Parvanova P., R. Fikova, S. Bratanova, M. Lyubenova.** 2008. Tropospheric ozone pollution in the city of Sofia and its vicinity – data from passive biomonitoring. Proceeding of III Congress of Ecologists of the Republic of Macedonia with international participation, 361-366.
- ii2 Първанова П.,** Св. Братанова-Дончева, Р. Фикова, М. Любенова. 2008. Екотоксични ефекти на тропосферния озон на ниво растителна биосистема. Екология, Биология, Биотехнология. София, 4, 3-18
- ii3 Traykov I., T. Stoyanova, K. Georgieva, P. Parvanova.** 2008. Toxicological Characteristics of Leached Waste Liquid from Souhodol Landfill, Bulgaria: Journal of Balkan Ecology, 11 (4), 429-435.
- ii4 Bratanova-Doncheva, S., Parvanova, P., Fikova, R., Hristova, R., Ignatova, N., Ljubenova, M., Groseva, M., Garrec, J-p.** Biomonitoring of O₃ pollution using tobacco plants (*Nicotiana tabacum* L. cv. Bel-W3); an application for the city of Sofia and suburbans. Ecological engineering and environment protection, 2010, 1, 35-41, ISSN 1311 – 8668.
- ii5 Parvanova, P., Tzvetkova, N., Donev, E., Ivanov, D., Danchovski, V.** Ozone-induced reduction in foliage chlorophyll concentration of tobacco (*Nicotiana tabacum* L.) cultivars in urban area. Journal of International Scientific Publication: Ecology and Safety, 2010, 4 (1), 324-333, ISSN 1313-2563, online: <http://www.science-journals.eu>.
- ii6 Tzvetkova, N., Parvanova, P., Anev, S.** Foliar water loss of *Fagus sylvatica* trees under ozone impact in urban and mountain areas. Journal of International Scientific Publication: Ecology and Safety, 2010, 4 (2), 485-493, ISSN 1313-2563, online: <http://www.science-journals.eu>.
- ii7 Tzvetkova N., S. Anev and P. Parvanova.** 2012. Ozone Load on Beech Forest Stands in the Western Balkan Mountain of Bulgaria. BALWOIS 2012 - Ohrid, Republic of Macedonia, 1-6
- ii8 Parvanova, P., Tzvetkova, N., Donev, E.,** Effects of ambient ozone at urban and mountain areas on photosynthetic pigments in leaves of tobacco (*Nicotiana tabacum* L.) cultivars. Seminar of ecology – 2012, Proceedings, Sofia 2012, short communication, p. 278-279.
- ii9 Parvanova, P., Angelova, Ts., Mitrovska, Z., Miteva, D., Svetleva, D., Yurina, N., Chankova, S.** Biochemical and molecular characteristics of two cultivars *Phaseolus vulgaris* L. under drought stress. Seminar of ecology – 2013, Proceedings, Sofia, 2013, extended abstract, p. 158-159.
- ii10 Angelova, Ts., Parvanova, P., Mitrovska, Z., Miteva, D., Svetleva, D., Mokerova, D., Yurina, N., Chankova, S.** Biochemical and molecular responses of *Phaseolus vulgaris* L. cultivar and three mutantlines drought stress. Seminar of ecology – 2014, with international participation, Proceedings, Sofia, 2015, short communication, p. 92-95.
- ii11 Parvanova, P., Simões, F., Veloso, M. M., Mendonça, D., Guimarães, J., Stoilova, T., Svetleva, D., Matos, J., Chankova, S.** Genetic polymorphisms of Bulgarian and Portuguese common bean (*Phaseolus vulgaris* L.) germplasm. Seminar of ecology – 2014, with international participation, Proceedings, Sofia, 2015, short communication, p. 46-48.

- ii12** Apostolova, E., Krastev, V., Yahubyan, G., Svetleva, D., **Parvanova, P.**, Mitrovska, Z., Chankova, S. Molecular analysis of Bulgarian common bean genotypes and their characterization after growing under rainfed and irrigated conditions. *International Journal of Agricultural Sciences and Natural Resources*, 2014, 1(4), 50-57.
- ii13** **Petya Parvanova**, Teodora Lyubomirova, Nikolina Tzvetkova, Vladimir Ilinkin – Effect of auxin on protein content during in vitro rhizogenesis of *Syringa vulgaris* L. Годишник на Софийския Университет „Св. Климент Охридски“ Биологически Факултет, книга 4 – Първа Национална Конференция по Биотехнология, София 2014 Том 100, 208-215
- ii14** Angelova, Ts, **Parvanova, P.**, Miteva, D, Chankova, S. Biochemical markers for assessment of oxidative stress in two genotypes *Phaseolus vulgaris* L. Публикувано във вид на пълен текст в *Proceedings Seminar of Ecology - 2015 with international participation*, Фараго, 2016, ISBN:979-853-476-132-4, 121-128
- ii15** **Parvanova, P.**, Mitrovska, Z., Sidjimova, B., Nikolova, M., Berkov, S., Chankova, S. Screening for genotoxicity of Amaryllidaceae plants extracts on the *Chlamydomonas reinhardtii*. *Proceedings of 10th anniversary "Seminar of Ecology – 2017"*, with international participation, ФАРАГО, 2018, ISBN:979-853-476-132-4, 126-128
- ii16** **Parvanova, P.**, Todorova, T., Miteva, D., Mitrovska, Z., Chankova, S.. DNA susceptibility of *Chlamydomonas reinhardtii* and *Saccharomyces cerevisiae* to Nurelle D. *Proceedings of 10th anniversary "Seminar of Ecology – 2017"*, with international participation, Фараго, 2018, ISBN:979-853-476-132-4, 129-131
- ii17** **Parvanova, P.**, Mitrovska, Z, Sidjimova, B, Nikolova, M, Berkov, S, Chankova, S. Genotoxic and mutagenic effects of *Narcissus triandrus* L. total leaf extract on *Chlamydomonas reinhardtii*. *Proceedings of 11th "Seminar of Ecology – 2018"*, with international participation, Institute of Biodiversity and Ecosystem research, 2019, ISBN:978-954-9746-45-7, 106-109
- ii18** Todorova, T, **Parvanova, P.**, Mohafrash, S. M. M., Kostadinov, K, Dimitrov, M, Iliev Ivan, Mitrovska, Z, Mossa, A. T. H., Chankova, S.. Nurelle D® bioactivity depending on the test system. *Proceedings of 11th "Seminar of Ecology – 2018"*, with international participation, Institute of Biodiversity and Ecosystem Research, 2019, ISBN:978-954-9746-45-7, 87-98
- ii19** **Parvanova, P.**, Yovkova, M, Dimitrova, M, Chankova, S. Bioactivity of *Origanum vulgare* subsp. *hirtum* methanolic extract and essential oil on different test systems. *Proceedings of International Seminar of Ecology - 2019*, Farago, 2020, ISBN:978-619-206-153-1, 41-44
- ii20** Todorova, T., **Parvanova, P.**, Dimitrova, M., Mitrovska, Z., Chankova, S. Optimization of CFGE for *Saccharomyces cerevisiae* strain with a wild type cell wall structure. *Proceedings of International Seminar of Ecology - 2019*, Farago, 2020, ISBN:978-619-206-153-1, 39-41
- ii21** Стефка Чанкова, Теодора Тодорова, Мария Тодорова, **Петя Първанова**, Мария Йовкова. Мутагенеза от околната среда - съвременно предизвикателство. Списание на БАН, 2, Издателство на БАН „Проф. Марин Дринов“, 2020, ISSN:0007-3989, 56-61
- ii22** Zlatev, Z, Berova, M, Krastev, V, Svetleva, D, Parvanova, P, Miteva, D, Mitrovska, Z, Chankova, S. Drought tolerance of Bulgarian common bean genotypes, characterized by some physiological and biochemical parameters. *Agricultural sciences*, Volume 12, Issue 27, Agricultural University – Plovdiv, 2020, DOI:10.22620/agrisci.2020.27.003, 15-24