

prof. dr Branka Vuković-Gačić (bibliografija 2009 -2018)

Istaživačke oblasti:

1. Biologija mikroorganizama
2. Genotoksikologija i ekogenotoksikologija

### **Međunarodni časopis izuzetnih vrednosti M21a (10)**

1. Gačić, Z., Kolarević, S., Sunjog, K., Kračun-Kolarević, M., Paunović, M., Knežević-Vukčević, J., **Vuković-Gačić, B.** (2014), The impact of *in vivo* and *in vitro* exposure to base analogue 5-FU on the level of DNA damage in haemocytes of freshwater mussels *Unio pictorum* and *Unio tumidus*, Environmental Pollution 191, 145-150. **IF 4.143**
2. Sunjog, K., Kolarević, S., Kračun-Kolarević, M., Višnjić-Jeftić, Ž., Skorić, S., Gačić, Z., Lenhardt, M., Vasić, N., **Vuković-Gačić, B.**, (2016) Assessment of status of three water bodies in Serbia based on tissue metal and metalloid concentration (icp-oes) and genotoxicity (comet assay), Environmental Pollution, 213 600-607 **IF 5,099**
3. Matić, M., Vlahović, M., Kolarević, S., Perić Mataruga, V., Ilijin, L., Mrdaković, M., **Vuković-Gačić, B.**, (2016). Genotoxic effects of cadmium and influence on fitness components of *Lymantria dispar* caterpillars, Environmental Pollution 218 1270-1277 **IF 5,099**
4. Aborgiba, M., Kostić, J., Kolarević, S., Kračun-Kolarević, M., Elbahi, S., Knežević-Vukčević, J., Lenhardt, M., Paunović, M., Gačić, Z., **Vuković-Gačić, B.**, (2016) Flooding modifies the genotoxic effects of pollution on a worm, a mussel and two fish species from the Sava River Sci Total Environment 540 358–367 **IF 4.900**
5. Kolarević, S., Kračun-Kolarević, M., Kostić, J., Slobodnik, J., Liška, I., Gačić, Z., Paunović, M., Knežević-Vukčević, J., **Vuković-Gačić, B.**, (2016) Assessment of the genotoxic potential along the Danube River by application of the comet assay on haemocytes of freshwater mussels: The Joint Danube Survey 3 Sci Total Environment 540 377–385 **IF 4.900**
6. Kračun-Kolarević, M., Kolarević, S., Jovanović, J., Marković, V., Ilić, M., Simonović, P., Simić, V., Gačić, Z., Diamantini, E., Stella, E., Petrović, M., Majone, B., Bellin, A., Paunović, M., **Vuković-Gačić, B.**, (2016). Evaluation of genotoxic potential throughout the upper and middle stretches of Adige river basin. Sci Total Environment, 571, 1383-1391. **IF 4.900**
7. Deutschmann, B., Kolarević, S., Brack, W., Kaisarevic, S., Kostic, J., Kracun-Kolarević, M., Liska, I., Paunović, M., Seiler, T.B., Shao, Y., Sipos, S., Slobodnik, J., Teodorović, I., **Vuković-Gačić, B.**, Hollert, H., (2016). Longitudinal profile of the genotoxic potential of the River Danube on erythrocytes of wild common bleak (*Alburnus alburnus*) assessed using the comet and micronucleus assay. Sci Total Environment. 573, 1441-1449. **IF 4.900**

8. Vrzel, J., **Vuković-Gačić, B.**, Kolarević, S., Gačić, Z., Kračun-Kolarević, M., Kostić, J., Aborgiba, M., Farnleitner, A., Reischer, G., Linke, R., Paunović, M., Ogrinc, N., (2016). Determination of the sources of nitrate and the microbiological sources of pollution in the Sava River Basin. *Sci Total Environment*. 573, 1460-1471. **IF 4.900**
9. Kostić, J., Kolarević, S., Margareta Kračun-Kolarević, M., Aborgiba, M., Gačić, Z., Paunović, M., Višnjić-Jeftić, Ž., Rašković, B., Poleksić, V., Lenhardt, M., **Vuković-Gačić, B.**, (2017) The impact of multiple stressors on the biomarkers response in gills and liver of freshwater breams during different seasons, *Sci Total Environment* 601–602, 1670–1681. **IF 4.900**
10. Jovanović, J., Kolarević, S., Milošković , A., Radojković, N., Simić, V., Dojčinović, B., Kračun-Kolarević, M., Paunović, M., Kostić, J., Sunjog, K., Timilić, J., Đorđević, J., Gačić, Z., Žegura, B., **Vuković-Gačić, B.**, (2018) Evaluation of genotoxic potential in the Velika Morava River Basin *in vitro* and *in situ*, *Sci Total Environment* 621, 1289-1299. **IF 4.900**
11. Tokodi, N., Drobac, D., Meriluoto, J., Lujić, J., Marinović, Z., Važić, T., Nybom, S., Simeunović, J., Dulić, T., Lazić, G., Petrović, T., **Vuković-Gačić, B.**, Sunjog, K., Kolarević, S., Kračun-Kolarević, M., Subakov-Simić, G., Miljanović, B., Coddh, G.A., Svirčev, Z., (2018) Cyanobacterial effects in Lake Ludoš, Serbia - Is preservation of a degraded aquatic ecosystem justified? *Sci Total Environment* 635, 1047–1062. **IF 4.900**

## **Rad u vrhunskom naučnom časopisu M21 (8)**

1. Mitić-Ćulafić, D., Žegura, B., Nikolić, B., **Vuković-Gačić, B.**, Knežević-Vukčević, J., Filipić, M., (2009) Protective effect of Linalool, Myrcene and Eucalyptol against *t*-butyl hydroperoxide induced genotoxicity in bacteria and cultured human cells, *Food Chem. Toxicol.* 47, 260-266. **IF 2.766**
2. Nikolić, B., Mitić-Ćulafić, D., **Vuković-Gačić, B.**, Knežević-Vukčević (2011) Modulation of genotoxicity and DNA repair by plant monoterpenes champhor, eucalyptol and thujone in *E. coli* and mammalian cells, *Food Chem. Toxicol.* 49, 2035-2045. **IF 2.999**
3. Sunjog, K., Gačić, Z., Kolarević, S., Višnjić-Jeftić, Ž., Jarić, I., Knežević-Vukčević, J., **Vuković-Gačić, B.**, Lenhardt, M., (2011) Heavy metal accumulation and the genotoxicity in barbel (*Barbus barbus*) as indicators of the Danube River pollution, *The Scientific World Journal*, Volume 2012, Article ID 351074, doi:10.1100/2012/351074 **IF 1.524**
4. Marin, M., Novaković, M., Tešević, V., Vučković, I., Milojević, N., **Vuković-Gačić, B.**, Marin, P.D. (2012) Antioxidative, antibacterial and antifungal activity of the essential oil of wild-growing *Satureja montana* L. from Dalmatia, Croatia. *Flavour and Fragrance Journal.* 27, 216-223. DOI 10.1002/ffj.3082 **IF 1.849**
5. Radaković M, Stevanović J, Djelić N, Lakić N, Knežević-Vukčević J, **Vuković-Gačić B.**, Stanimirović, Z. (2013) Evaluation of the DNA damaging effects of amitraz on human lymphocytes in the Comet assay. *J. Biosci.* 38 (1), 53-62 **IF 1.939**

6. Sunjog, K., Kolarević, S., Héberger, K., Gačić, Z., Knežević-Vukčević, J., **Vuković-Gačić, B.**, Lenhardt, M. (2013) Comparison of comet assay parameters for estimation of genotoxicity by sum of ranking differences Anal Bioanal Chem 405:4879–4885 **IF 3.578**

7. Kolarević, S., Knežević-Vukčević, J., Paunović, M., Kračun, M., Vasiljević, B., Tomović, J., **Vuković-Gačić, B.**, Gačić, Z., (2013) Monitoring of DNA damage in haemocytes of freshwater mussel *Sinanodonta woodiana* sampled from the Velika Morava River in Serbia with the comet assay, Chemosphere 93, 243–251. **IF 3.449**

8. **Vuković-Gačić B.**, Kolarević S, Sunjog K., Tomović J., Knežević-Vukčević J., Paunović M., Gačić Z. (2014) Comparative study of the genotoxic response of freshwater mussels *Unio tumidus* and *Unio pictorum* to environmental stress, Hydrobiologia, 735:221–231 DOI: 10.1007/s10750-013-1513-x **IF 2.275**

9. Martinović, R., Kolarević, S., Kračun-Kolarević, M., Kostić, J., Marković, S., Gačić, Z., Kljajić, Z., **Vuković-Gačić, B.**, (2015) Assessment of genotoxic potential and heart rate disorders in the Mediterranean mussel *Mytilus galloprovincialis* exposed to diesel oil related pollution, Marine Environmental Research, 108, 83-90. **IF 2.762**

10. Kostić, J., Kolarević, S., Kračun-Kolarević, M., Aborgiba, M., Gačić, Z., Lenhardt, M., **Vuković-Gačić, B.**, (2016) Genotoxicity assessment of the Danube River using tissues of freshwater bream (*Abramis brama*), Environmental Science and Pollution Research DOI: 10.1007/s11356-016-7213-0 **IF 2.760**

11. Kolarević, S., Kračun-Kolarević, M., Kostić, J., Aborgiba, M., Paunović, M., Simonović, P., Simić, V., Milošković, A., Reicher, G., Farnleitner, A., Gačić, Z., Milačić, R., Zuliani, T., Pergal, M., Piria, M., **Vuković-Gačić, B.**, (2016) Evaluation of genotoxic pressure along the Sava River, PLOS ONE | DOI:10.1371/journal.pone.0162450 September 15, 2016 1 / 23 **IF 2.806**

## Rad u istaknutom međunarodnom časopisu M22 (5)

1. Mimica-Dukić, N., Bugarin, D., Grbović, S., Mitić-Ćulafić, D., **Vuković-Gačić, B.**, Orčić, D., Jovin, E., Couladis, M., (2010), Essential oil of *Myrtus communis* L. as a potential antioxidant and antimutagenic agents (Review), Molecules, 15, 2759-2770. **IF 1,738**

2. Sunjog, K., Kolarević, S., Kračun-Kolarević, M., Gačić, Z., Skorić, S., Đikanović, V., Lenhardt, M., **Vuković-Gačić, B.** (2014), Variability in DNA damage of chub (*Squalius scepahalus* L.) blood, gill and liver cells during the annual cycle, Environmental Toxicology and Pharmacology, 37, 967–974 **IF 2.094**

3. Heberger, K., Kolarević, S., Kračun-Kolarević, M., Sunjog, K., Gačić, Z., Kljajić, Z., Mitrić, M., **Vuković-Gačić, B.** (2014), Evaluation of single-cell gel electrophoresis data: Combination of variance analysis with sum of ranking differences. Mutation Research/Genetic Toxicology and Environmental Mutagenesis 771, 15-22. **IF 2.481**

4. Kračun-Kolarević, M., Kolarević, S., Atanacković, A., Marković, V., Gačić, Z., Paunović, M., **Vuković-Gačić, B.**, (2015) Effects of 5-fluorouracil, etoposide and cdcl<sub>2</sub> in aquatic oligochaeta *limnodrilus udekemianus* clparede (tubificidae) measured by comet assay Water, Air, and Soil Pollution, 226:242 Pages 9, DOI 10.1007/s11270-015-2511-6 **IF 1.685**
5. Nikolić, B., Vasilijević, B., Mitić-Ćulafić, D., **Vuković-Gačić, B.**, Knežević-Vukčević, J., (2015) Comparative study of genotoxic, antigenotoxic and cytotoxic activities of monoterpenes camphor, eucalyptol and thujone in bacteria and mammalian cells Chemico-Biological Interactions 242, 263-271 **IF 2.982**
6. Simić, V., Kolarević, S., Brčeski, I., Jeremić, D., **Vuković-Gačić, B.** (2015) Cytotoxicity and antiviral activity of palladium (ii) and platinum (ii) complexes 1 with 2-(diphenylphosphyno) benzaldehyde 1-adamantoylhydrazone, Turkish Journal of Biology 40, 661-669. **IF 1.343**
7. Kolarević, S., Gačić, Z., Kostić, J., Sunjog, K., Kračun-Kolarević, M., Paunović, M., Knežević Vukčević, J., **Vuković-Gačić, B.** (2016). Impact of common cytostatics on DNA damage in freshwater mussels *Unio pictorum* and *U. tumidus*. CLEAN–Soil, Air, Water. 44, 1471–1476 **IF 1.716**
8. Martinović, R., Kolarević, S., Kračun-Kolarević, M., Kostić, J., Jokanović, S., Gačić, Z., Joksimović, D., Djurović, M., Kljajić, Z., **Vuković-Gačić, B.**, (2016) Comparative assessment of cardiac activity and DNA damage in haemocytes of the Mediterranean mussel *Mytilus galloprovincialis* in exposure to tributyltin chloride, Environmental Toxicology and Pharmacology, 47, 165–174 **IF 2.187**
9. Kolarević, S., Milovanović, D., Kračun-Kolarević, M., Kostić, J., Sunjog, K., Martinović, R., Đorđević, J., Novaković, I., Sladić, D., **Vuković-Gačić, B.** (2017). Evaluation of genotoxic potential of avarol, avarone, and its methoxy and methylamino derivatives in prokaryotic and eukaryotic test models. Drug and chemical toxicology, 1-10. **IF 1.732**
10. Đorđević, J., Kolarević, S., Jovanović, J., Kostić-Vuković, J., Novaković, I., Jeremić, M., Sladić, D., **Vuković-Gačić, B.** (2018). Evaluation of genotoxic potential of tert-butylquinone and its derivatives in prokaryotic and eukaryotic test models. Drug Cheml Tox, 1-9. **IF 1.732**

### **Rad u međunarodnom časopisu M23 (3)**

1. Nikolić, B., Mitić-Ćulafić, D., **Vuković-Gačić, B.**, Knežević-Vukčević, J., (2011), Antimutagenic effect of momnoterpenes against UV-irradiation, 4NQO and *t*-BOOH in *E. coli*, Arch. Biol. Sci., 63 (1), 117-128. **IF 0.360**
2. Kolarević, S., Knežević-Vukčević, J., Paunović, M., Tomović, J., Gačić, Z., **Vuković-Gačić, B.**, (2011) Antropogenic impact on water quality of the River Danube in Serbia: microbiological analysis and genotoxicity monitoring, Arch. Biol. Sci., 63 (4), 1209 -1217. **IF 0.360**

3. Nikolić, B., Mitić-Ćulafić, D., Stajković-Srbinović, O., **Vuković-Gačić, B.**, Knežević-Vukčević, J., (2012) Effect of metabolic transformation of monoterpenes on antimutagenic potential in bacterial tests, Arch. Biol. Sci., 64 (3), 885-894. **IF 0.791**
4. Kolarevic, S., Knežević-Vukčević, J. Paunović, M., Vasiljević, B., Kračun, M., Gačić, Z., **Vuković-Gačić, B.** (2012) Seasonal variations of microbial parameters of water quality of the Velika Morava river in Serbia, Arch. Biol. Sci., 64 (3), 1017-1027. **IF 0.791**
5. Lenhardt, M., Smederevac-Lalić, M., Djikanović, V., Cvijanović, G., **Vuković-Gačić, B.**, Gačić, Z., Jarić, I. (2014) Biomonitoring and genetic analysis of sturgeons in Serbia: A contribution to their conservation (Article), Acta Zoologica Bulgarica, 66, Issue SUPPL. 7, 69-73. **IF 0.532**
6. Lenhardt, M., Poleksić, V., **Vuković-Gačić, B.**, Rašković, B., Sunjog, K., Kolarević, S., Jarić, I., Gačić, Z., (2015) Integrate d use of different fish related parameters to assess the status of water bodies, Slov Vet Res; 52 (1): 5 -13, Review Article **IF 0.314**
7. Novaković Jovanović, B. Nikolić, S. Šećatović, G. Zavišić, D. Mitić-Ćulafić, **B. Vuković-Gačić, J.** Knežević-Vukčević , (2015) Characterization of some potentially probiotic Lactobacillus strains of human origin, Food Sci Biotech, 24(5): 1781-1788 **IF 0.656**
8. Bošnjak-Neumüller, J., Radaković, M., Djelić, N., **Vuković-Gačić, B.**, Dajić Stevanović, Z., Kolarević, S., Mišić, D., Stanković, M., Knežević-Vukčević, J., Spremo-Potparević, B., Stanimirović, Z., (2017) *Nepeta rtanjensis* (Lamiaceae), a plant endemic to the Balkans: Phenolic composition, antioxidant activity, and *in vitro* antigenotoxic effects in triiodothyronine-induced DNA damage in human lymphocytes, Pak. J. Pharm. Sci., Vol.30, No.2(Suppl), 625-634. **IF 0.581**
9. Bošnjak-Neumüller, J., Djelić, N., Radaković, M., Kolarević, S., Mitić-Ćulafić, D., Dajić Stevanović, Z., **Vuković-Gačić, B.**, Knežević-Vukčević, J., Stanimirović, Z., (2017), Genotoxicity of triiodothyronine: Effects on *Salmonella typhimurium* TA100 and Human Lymphocytes In Vitro“ Genetika, 49 (2) 387 - 397 **IF 0.308**
10. Marin, M., Novaković, M., Vučković, I., Tešević, V., Kolarević , S., **Vuković-Gačić, B.**, (2018) Wild *Thymus capitatus* Hoff. Et Link. Chemical composition, antioxidant and antimicrobial activities of the essential oil, Journal of Essential Oil Bearing Plants, Published ISSN Online: 0976-5026 <https://doi.org/10.1080/0972060X.2018.1449668> **IF 0.681**
11. Marin M. A, Novaković M. M, Tešević V. V, Kolarević, S. M, **Vuković-Gačić, B. S** (2018) Comparision of the compositions, antimicrobial and antioxidant activities of essential oils from the endemic species Thymus Malyi Ronninger and Thymus Lycae Degen Et Jav. Acta scientiarum polonorum hortorum cultus 17 (5):157-165 **IF 0.448**
12. Duletić-Laušević, S., Alimpić Aradski, A., Kolarević, S., **Vuković-Gačić, B.**, Oalđe, M., Živković, J., Šavikin, K., Marin, P.D., (2018), Antineurodegenerative, antioxidant and

antibacterial activities and phenolic components of *Origanum majorana* L. (Lamiaceae) extracts  
Journal of Applied Botany and Food Quality 91, 126 - 134 **IF 1.115**

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