

## TANJA TRAKIĆ, PHD in BIOLOGICAL SCIENCES

Associate professor

Department of Biology and Ecology

Faculty of Science, University of Kragujevac

Address: Radoja Domanovica 12, 34000 Kragujevac, Serbia

E-Mail: [tanja.trakic@pmf.kg.ac.rs](mailto:tanja.trakic@pmf.kg.ac.rs)

ORCID ID: <https://orcid.org/0000-0001-9607-0668>

ResearchGate: [Tanja Trakić \(researchgate.net\)](https://www.researchgate.net/profile/Tanja-Trakic)

Scopus: 23052087800

h-index: 12      Citations: 372



### RESEARCH AREA

- Scientific and research work in the field of ecology, biogeography, environmental protection, and zoology
- Study of zoogeography, biodiversity, and conservation status of Lumbricidae (Annelida) of Serbia and the Balkans
- Soil ecology
- Determination of bioindicator endemic species, their role in ecosystems
- Ecosystem's relations (ecology of soil organisms, soil processes)

### SKLLIS

- Morpho-anatomic identification earthworms (Lumbricidae)
- Identification endemic and relict species earthworms using the taxonomic literature
- Comparative morphoanatomical variability
- Estimating species richness and biodiversity according for different ecological index
- Laboratory acute and chronic laboratory tests, effect of certain substances on the test organisms (*Eisenia fetida*, *Dendrobaena veneta*)
- Classificaton of determined species into different ecological categories
- Field research (collecting materials from different locations for analysis)
- Teaching to students of Biology and Ecology at Bachelor and Master academic studies

### WORK EXPERIENCE

- 2024- current Associate professor in the Department of Biology and Ecology, Faculty of Science, University of Kragujevac, Serbia
- 2019–2024 Assistant professor in the Department of Biology and Ecology, Faculty of Science, University of Kragujevac, Serbia
- 2014-2019 Research associate and teaching assistant in the Department of Biology and Ecology, Faculty of Science, University of Kragujevac, Serbia

- 2008- 2014 PhD student and teaching assistant in the Department of Biology and Ecology, Faculty of Science, University of Kragujevac, Serbia
- 2006-2008 Junior Research in the Department of Biology and Ecology, Faculty of Science, University of Kragujevac, Serbia

## **EDUCATION**

- PhD 2014 in Biological sciences. Field of research: Ecology, biogeography, and environmental protection, in the Department of Biology and Ecology, Faculty of Science, University of Kragujevac, Serbia. Topic: Zoogeography, diversity and conservation status of Lumbricidae (Annelida) in western Serbia.
- Sc. 2004 Diploma in Biology and Ecology in the Department of Biology and Ecology, Faculty of Science, University of Kragujevac, Serbia. Topic: The use of plants in the treatment of cancer in scientific and folk medicine.

## **TEACHING AND COURSES**

- Soil ecology
- Soil protection
- Ecological environmental monitoring
- Pedofauna
- Ecosystem dynamics
- Ecotoxicology of invertebrates
- Animal development
- Basics of animal embryonic development

## **OTHER PROFESSIONAL ACTIVITIES**

- Scientific reviewer for the Biodiversa+
- Reviewer of different journals (Biodiversity and Conservation, Land, Agronomy, Sustainability, Zootaxa, North-Western Journal of Zoology, Acta zoologica Bulgarica, Ecologia Balkanica)
- Mentor one doctoral dissertation and member of the commission of three doctoral dissertation.
- Mentor and member of the commission 9 diploma theses.
- Mentor and member of the commission at the Regional Center for Young Talents
- Translator papers for Frontiers for Young Minds (German Center for Integrative Biodiversity Research (iDiv)).
- She took part in the creation of the IUCN Red Lists and Red Books of Serbia (Oligochaeta).
- Participation in the development of the ErIK 2 web and mobile application
- Participation in the GloWorm project
- Participant as a researcher in the implementation of a scientific research project: CA18237 Eudaphobase (2019-2024) and Preclinical trials of bioactive substances (2011-2019).

## SELECTED PUBLICATIONS

1. **Trakić, T.**, Popović, F., Sekulić, J., Hackenberger, D.K. 2024. Ecotoxicological effects of commercial microplastics on earthworm *Eisenia fetida* (Savigny, 1826) (Clitellata; Lumbricidae). *Agriculture*, 14, 267. <https://doi.org/10.3390/agriculture14020267>.
2. Sekulić, J., Milovac, Ž., Marjanović, A. J., Bajagić, M., **Trakić, T.**, Popović, F. 2023. Effect of single and mixture of insecticides on earthworms: results from field and laboratory experiments, *Zemdirbyste-Agriculture*, 110 (2): 129-138. <https://doi.org/10.13080/z-a.2023.110.016>.
3. Misirlioglu, M., Reynolds, J.W., Stojanović-Petrović, M., **Trakić, T.**, Sekulić, J., James, S.W., Csuzdi, C., Decaëns, T., Lapied, E., Phillips, H.R.P., Cameron, E.K., Brown, G.G. (2023) Earthworms (Clitellata, Megadrili) of the world: an updated checklist of valid species and families, with notes on their distribution, *Zootaxa* 5255 (1): 417–438. <https://doi.org/10.11646/zootaxa.5255.1.33>
4. Sekulić, J., Milovac, Ž., Jeromela, A.M., Bajagić, M., **Trakić, T.**, Popović, F. (2023) Effect of single and mixture of insecticides on earthworms: results from field and laboratory experiments, *Zemdirbyste-Agriculture*, 110 (2): 129-138. DOI 10.13080/z-a.2023.110.016
5. Popović, F., Stojanović, M., Domínguez, J., Sekulić, J., **Trakić, T.**, Marchán, D. (2022) Molecular analysis of five controversial Balkanic species of *Allolobophora (sensu lato)* Eisen, 1873 (Lumbricidae, Clitellata) with emendation of the genus *Cernosvitovia* Omodeo, 1956., *Zootaxa*, 5116 (3): 351–372; DOI:10.11646/zootaxa.5116.3.3
6. Sekulić, J., Stojanović, M., Popović, F., **Trakić, T.** (2022) Checklist of the earthworm fauna of Bosnia & Herzegovina (Oligochaeta: Lumbricidae). *Zootaxa*, 5093 (5): 501–518.
7. Stojanović-Petrović, M., **Trakić, T.**, Sekulić, J. (2020) Kišne gliste (Oligochaeta: Lumbricidae) Srbije. Univerzitet u Novom Sadu. p. 276.
8. Stojanović, M., **Trakić, T.**, Sekulić, J. (2019) New and additional records of earthworms (Annelida: Clitellata) from Central Serbia: First finding of *Bimastos parvus* (Eisen, 1874) in Serbia. *Biologia*, 74 (3): 269-278.
9. Stojanović, M., Sekulić, J., **Trakić, T.** (2018) Checklist of earthworms (Oligochaeta: Lumbricidae) from Serbia: a review. *Zootaxa*, 4496 (1): 124–155.
10. **Trakić, T.**, Valchovski, H., Stojanović, M. (2016) Endemic earthworms (Oligochaeta: Lumbricidae) of the Balkan Peninsula: a review. *Zootaxa*, 4189: 251-274.
11. Stojanović, M., **Milutinović, T.** (2013) Checklist of earthworms (Oligochaeta: Lumbricidae) from Montenegro: Diversity and biogeographical review. *Zootaxa*, 3710 (2): 147–164.
12. Stojanović, M., **Milutinović, T.**, Karaman, S. (2008) Earthworm (Lumbricidae) diversity in the Central Balkans: An evaluation of their conservation status. *European Journal of Soil Biology*, 44: 54–67.