

## PERSONAL INFORMATION

Name and surname	<b>Dr. Aleksandra Milošković</b>
Date and place of birth	1982., Ofenbah, Germany
Scientific title	Research Associate
E-mail	<a href="mailto:aleksandra@uni.kg.ac.rs">aleksandra@uni.kg.ac.rs</a>
Educational-scientific / educational-artistic field	Natural and mathematical sciences
University, Faculty, Organizational unit	University of Kragujevac, Institute for Information Technologies, Department of Natural and Mathematical Sciences, Department of Biology
Research field and areas	Biology

## EDUCATION

### BACHELOR

Year	2009.
Place	Kragujevac
Institution	Institute of Biology and Ecology, Faculty of Science, University of Kragujevac

### DOCTORAL DISSERTATION

Year	2017.
Place	Kragujevac
Institution	Institute of Biology and Ecology, Faculty of Science, University of Kragujevac
Title of doctoral dissertation	"Spatial monitoring of heavy metals in inland waters of Serbia based on bioaccumulation in fish"
Scientific title	Research Associate
Research area	Biology

## PROFESSIONAL BIOGRAPHY – ELECTION IN RESEARCH OR SCIENTIFIC TITLE

Date	Institution	Scientific title
2010.	Faculty of Science	Junior Research Assistant
2013.	Faculty of Science	Research Assistant
2016.	Faculty of Science	Research Assistant
25.04.2018.	Faculty of Science	Research Associate

## PROFESSIONAL BIOGRAPHY - TRAINING

Year	Institution	Duration

## ENGAGEMENT IN THE FORMATION OF SCIENTIFIC PERSONNEL

1. Member of the Commission for the evaluation of the scientific value of the topic of the doctoral dissertation of candidate Ms. Marijana Nikolić "The possibility of using the fish species *Alburnus alburnus* (Linnaeus 1758) as a bioindicator of the microplastics load in aquatic habitats" (Decision of the Council for Natural and Mathematical Sciences of the University of Kragujevac, dated 04.02.2022. year) at the Faculty of Science in Kragujevac.
2. Member of the Commission for evaluation and defense of candidate Nataša Kojadinović's doctoral dissertation "Possibility of conservation of fragmented fish populations using the example of barbel (*Barbus balcanicus* Kotlik, Tsigenopoulos. Ráb & Berrebi, 2002)" (Decision of the Council for Natural and Mathematical Sciences of the University of Kragujevac, number IV- 01-791/1 from 29 October 2020) at the Faculty of Science in Kragujevac.

3. Member of the selection committee for the title of Research Associate of candidate Nataša Kojadinović, Ph.D., at the Faculty of Science, University of Kragujevac (decision number 150/VI-1 dated March 10, 2021).

4. Member of the selection committee for the position of Research Assistant of the candidate Marijana Nikolić at the Faculty of Science, University of Kragujevac (decision number 180/VII-1 dated March 30, 2022).

#### **PARTICIPATION IN NATIONAL PROJECTS FINANCED BY MINISTRY OF EDUCATION/MINISTRY OF SCIENCE AND TECHNOLOGICAL DEVELOPMENT/SCIENCE FUND OF THE REPUBLIC OF SERBIA:**

1. "The influence of the quality of components in the diet of cyprinids on the quality of meat, losses, and economy of production" (reg. no. 31011), prof. Dr. Miroslav Ćirković, 2011-2019.

2. "Development of practical skills of students of Ecology and Biology in the field of sustainable use of biological resources of inland waters through the subjects "Hydroecology and water protection", "Conservation biology", and "Sustainable fisheries and aquaculture" through the improvement of the content and functioning of the Aquarium and repro center at the Faculty of Science in Kragujevac", Ministry of Education, Science and Technological Development (contract number: 401-00-00712/2017-06), Prof. Dr. Vladica Simić, 2017–2018.

#### **PARTICIPATION IN INTERNATIONAL PROJECTS**

1. „Stone Crayfish *Austropotamobius torrentium* (Schrank, 1803) in Serbia: Distribution, Population Density, Genetic Diversity and Conservation”, The Rufford Foundation, Dr. Katarina Zorić, 2017–2018.

2. COST action CA18239: Conservation of freshwater mussels: a pan-European approach - CONFREMU, Action Chair Tadeusz Zając, Polish Academy of Sciences, Poland, 2019–2023.

3. Performing analyzes and studies of species and natural habitats in Bulgaria, subject to reporting according to Art. 17 of the Directive on habitats and Art. 12 of the Birds Directive, NATURA 2020), 2018-2022.

## MEMBERSHIP IN SCIENTIFIC AND PROFESSIONAL ASSOCIATIONS

## ORGANIZATION OF NATIONAL/INTERNATIONAL SCIENTIFIC MEETINGS (CONFERENCES, CONGRESSES...)

Dr. Aleksandra Milošković was a member of the organizing committee of the international conference AdriBioPro2019, Adriatic Biodiversity Protection, organized by the Institute of Marine Biology in Kotor, Montenegro (April 7-10, 2019).

## LIST OF SCIENTIFIC PAPERS:

Monographs, Monographic anthologies, studies, Thematic	Sum
1. <b>Milošković A</b> , Đuretanović S, Radenković M, Kojadinović N, Veličković T, Milošević Đ, Simić V (2022) Pollution of Small Lakes and Ponds of the Western Balkans-Assessment of Levels of Potentially Toxic Elements. In: Pešić V., Milošević D., Miliša M. (eds) Small Water Bodies of the Western Balkans. Springer Water. Springer, Cham, pp 419-435. <a href="https://doi.org/10.1007/978-3-030-864781_19">https://doi.org/10.1007/978-3-030-864781_19</a>	1
Papers published in scientific journals of international scientific importance	Sum
1. <b>Milošković A</b> , Milošević Đ, Radojković N, Radenković M, Đuretanović S, Veličković T, Simić V (2018) Potentially toxic elements in freshwater ( <i>Alburnus</i> spp.) and marine ( <i>Sardina pilchardus</i> ) sardines from the Western Balkan Peninsula: An assessment of human health risk and management. Science of the Total Environment 644:899-906. IF <sub>2016</sub> = 4,900. <a href="https://doi.org/10.1016/j.scitotenv.2018.07.041">https://doi.org/10.1016/j.scitotenv.2018.07.041</a> .	14
2. Jovanović J, Kolarević S, <b>Milošković A</b> , Radojković N, Simić V, Dojčinović B, Kračun-Kolarević M, Paunović M, Kostić J, Sunjog K, Timiljić J, Djordjević J, Gačić Z, Žegura B, Vuković-Gačić B (2018) Evaluation of genotoxic potential in the Velika Morava River Basin in vitro and in vivo.	

Science of The Total Environment 621:1289-1299. IF<sub>2016</sub> = 4,900.  
<https://doi.org/10.1016/j.scitotenv.2017.10.099>

3. Kolarević S, Aborgiba M, Kračun-Kolarević M, Kostić J, Simonović P, Simić V, **Milošković A**, Reischer G, Farnleitner A, Gačić Z, Milačić R, Zuliani T, Vidmar J, Pergal M, Piria M, Paunović M, Vuković-Gačić B (2016) Evaluation of Genotoxic Pressure along the Sava River. PLoS ONE 11(9):e0162450. IF<sub>2014</sub> = 3,234.  
<https://doi.org/10.1371/journal.pone.0162450>.

4. **Milošković A**, Dojčinović B, Kovačević S, Radojković N, Radenković M, Milošević Dj, Simić V (2016) Spatial monitoring of heavy metals in the inland waters of Serbia: a multispecies approach based on commercial fish. Environmental Science and Pollution Research 23 (10):9918-9933. IF<sub>2014</sub> = 2,828. <https://doi.org/10.1007/s11356-016-6207-2>.

5. Đuretanović S, Jaklič M, **Milošković A**, Radojković N, Radenković M, Simić V, Maguire I (2017) Morphometric variations among *Astacus astacus* populations from different regions of the Balkan Peninsula. Zoomorphology 136 (1):19-27. IF<sub>2017</sub> = 1,400. <https://doi.org/10.1007/s00435-016-0331-x>

6. **Milošković A**, Stojković Piperac M, Kojadinović N, Radenković M, Đuretanović S, Čerba D, Milošević Đ, Simić V (2022) Potentially toxic elements in invasive fish species Prussian carp (*Carassius gibelio*) from different freshwater ecosystems and human exposure assessment. Environmental Science and Pollution Research 29:29152–29164. IF<sub>2021</sub> = 5,190. <https://doi.org/10.1007/s11356-021-17865-w>

7. **Milošković A**, Branković S, Simić V, Kovačević S, Ćirković M, Manojlović D (2013) The Accumulation and Distribution of Metals in Water, Sediment, Aquatic Macrophytes and Fishes of the Gruža Reservoir, Serbia. Bulletin of Environmental Contamination and Toxicology 90 (5):563-569. IF<sub>2013</sub> = 1,216.  
<https://doi.org/10.1007/s00128-013-0969-8>

8. **Milošković A**, Dojčinović B, Simić S, Pavlović M, Simić V (2014) Heavy Metal and Trace Element Bioaccumulation in Target Tissues of Three Edible Predatory Fish Species from Bovan Reservoir (Serbia). Fresenius Environmental Bulletin 23 (8A):1884-1891. IF<sub>2012</sub> = 0,641.

9. **Milošković A**, Simić V (2015) Arsenic and Other Trace Elements in Five Edible Fish Species in Relation to Fish Size and Weight. Potential Health Risk for Human Consumption, Serbia. Polish Journal of Environmental Studies 24 (1):199-206. IF<sub>2014</sub> = 0,871.

10. Radojković N, Marinović Z, **Milošković A**, Radenković M, Đuretanović S, Lujić J, Simić V (2019). Effects of Stream Damming on Morphological Variability of Fish: Case Study on Large Spot Barbell *Barbus balcanicus*. Turkish Journal of Fisheries and Aquatic Sciences 19(3):231-239. IF<sub>2019</sub> = 0,869. [https://doi.org/10.4194/1303-2712-v19\\_3\\_06](https://doi.org/10.4194/1303-2712-v19_3_06)

11. Kojadinović N, Marinović Z, Veličković T, **Milošković A**, Jakovljević M, Horváth A, Simić V (2020) Cryopreservation of Danube barbel *Barbus balcanicus* sperm and its effects on sperm subpopulation structure. Archives of Biological Sciences 72 (4):525-534. IF<sub>2020</sub> = 0,956. <https://doi.org/10.2298/ABS200831046K>

12. Veličković T, Simić V, Šanda R, Radenković M, **Milošković A**, Radojković N, Marić S (2020) New Record of a Population of *Telestes souffia* (Risso, 1827) (Actinopterygii: Cyprinidae) in Serbia. Acta zoologica Bulgarica 72 (1):13-20. IF<sub>2020</sub> = 0,448.

13. Radenković M, Stojković Piperac M, **Milošković A**, Kojadinović N, Đuretanović S, Veličković T, Jakovljević M, Nikolić M, Simić V (2022) Diet seasonality and food overlap of *Perca fluviatilis* (Actinopterygii: Perciformes: Percidae) and *Rutilus rutilus* (Actinopterygii: Cypriniformes: Cyprinidae) juveniles: A case study on Bovan Reservoir, Serbia. Acta Ichthyologica et Piscatoria 52(1):77-90. IF<sub>2020</sub> = 0,928 <https://doi.org/10.3897/aiep.52.78215>

14. Nikolić M, **Milošković A**, Jakovljević M, Radenković M, Veličković T, Đuretanović S, Kojadinović N, Nikolić M, Simić V (2022) The first observation of the presence of microplastics in wild common bleak (*Alburnus alburnus* L.) and standardization of extraction protocols. Kragujevac Journal of Science 44:267-282.; UDC 574.5:504.5:628.4.043:597.551.21(497.11); ISSN: 1450-9636. <https://doi.org/10.5937/KgJSci2244267N>

**Proceedings of international scientific conferences**

**Sum**

1. Simić V, Simić S, Petrović A, Ćirković M, **Milošković A**, Kovačević S, Radojković N, Rajković M (2011) Preliminarna Crvena lista Rhodophyta, dekapodnih rakova i riba Srbije, dobijena analizom baze podataka „BAES ex situ“. Interational conference „Nature protection in XXIst century“, Žabljak, Montenegro, September 20-23, Proceedings of the conference (Book 2) pp 473-477. ISBN 978-86-907229-9-0.
2. Kovačević S, Radojković N, Simić S, Simić V, Pavlović M, **Milošković A** (2011) Relation between autochthonous and allochthonous fish species in some Serbian reservoirs. V International conference „Aquaculture & Fishery“, Faculty of Agriculture, Belgrade - Zemun, Serbia, June 1-3, Book of Proceedings pp 474-478. ISBN 978-86-7834-119-9 COBISS.SR-ID 183737100.
3. **Milošković A**, Pavlović M, Simić S, Simić V, Kovačević S, Radojković N (2011) Breeding of tench fish (*Tinca tinca*) in laboratory. V International conference „Aquaculture & Fishery“, Faculty of Agriculture, Belgrade - Zemun, Serbia, June 1-3, Book of Proceedings pp 450-456. ISBN 978-86-7834-119-9.
4. Pavlović M, **Milošković A**, Petrović A, Đorđević N, Simić S, Ćirković M, Simić V (2012) The new sites of tench (*Tinca tinca*) in Serbia. „Conference on water observation and information system for decision support, Balwois“, Ohrid, Republic of Macedonia. www.balwois.com. ISBN 978-608-4510-10-9.
5. Kovačević S, Radojković N, Pavlović M, **Milošković A**, Simić S, Ćirković M, Simić V (2012) Invasive Species of Macroinvertebrates and Fish in Reservoirs of Central Serbia. „Conference on water observation and information system for decision support, Balwois“, Ohrid, Republic of Macedonia. www.balwois.com. ISBN 978-608-4510-10-9.
6. **Milošković A**, Pavlović M, Kovačević S, Radojković N, Simić S, Simić V (2013) The presence of zinc in muscle tissue of Prussian carp and bream in the Gruža and Bovan Reservoirs. VI International conference „Water & fish“, Faculty of Agriculture, Belgrade - Zemun, Serbia, June 12-14, Book of Proceedings pp 283-287. ISBN 978-86-7834-155-7.

7. **Milošković A**, Radojković N, Simić V, Kovačević S, Simić S, Radenković M (2015) Bleak (*Alburnus alburnus*) as potential bioindicator of heavy metal pollution. 7th International conference „Water & fish“, Faculty of Agriculture, Belgrade - Zemun, Serbia, June 10-12, Book of Proceedings pp 373-379. ISBN 978-86-7834-224-0.
8. Kovačević S, Radojković N, **Milošković A**, Radenković M, Simić S, Ćirković M, Simić V (2015) The possibility of conservation and sustainable use of noble crayfish *Astacus astacus* in Serbia. 7th International conference „Water & fish“, Faculty of Agriculture, Belgrade - Zemun, Serbia, June 10-12, Book of Proceedings pp 328-333. ISBN 978-86-7834-224-0.
9. Radojković N, **Milošković A**, Kovačević S, Veličković T, Simić S, Ćirković M, Horváth A, Simić V (2015) Results of breeding of juveniles of huchen (*Hucho hucho*) obtained by insemination with fresh and cryopreserved sperm in artificial conditions. First International Symposium of Veterinary Medicine „One Health-New Challenges“ (ISVM2015), Novi Sad, May 21-23, Proceedings pp 369-373. ISBN: 978-86-82871-36-1.
11. Radojković N, Đuretanović S, **Milošković A**, Radenković M, Veličković T, Petrović A, Simić V (2017) Preliminary results of length-weight relationship and condition factor of *Barbus balcanicus* in fragmented and non-fragmented habitats in Central Serbia. “5th Congress of Ecologists of the Republic of Macedonia with International Participation”, October 19-22, Ohrid, Macedonia, Proceedings 2017, pp 14-16. ISBN 978-9989-648-37-3.
12. Marković V, Zorić K, Ilić M, Marinković N, Djuretanović S, **Milošković A**, Radojković N (2017) A contribution to the knowledge on the distribution of native crayfish *Austropotamobius torrentium* (Schrank, 1803) in Serbia. XXV International Conference “Ecological truth” ECO-IST'17, June 12-15, Vrnjačka Banja, Serbia, Proceedings, pp 96-99. ISBN 978-86-6305-062-4.
13. Jerinić M, Perić M, **Milošković A**, Radojković N, Radenković M, Veličković T, Simić V (2018) Reservoirs as fishing waters in Serbia - their significance and further perspective. 8<sup>th</sup> International conference “Water & fish“, Faculty of Agriculture, June 15-18, Belgrade, Book of proceedings, pp 400-405. ISBN 978-86-7834-308-7.



14. Zorić K, Ilić M, Marinković N, Đuretanović S, **Milošković A**, Radojković N, Marković V (2018) New record of native crayfish *Austropotamobius torrentium* (Schrank, 1803) in Serbia. 8th International conference "Water & fish", Faculty of Agriculture, June 15-18, Belgrade, Book of proceedings, pp 418-423. ISBN 978-86-7834-308-7.

15. **Milošković A**, Kojadinović N, Radenković M, Đuretanović S, Veličković T, Nikolić M, Simić V (2021) Potentially toxic elements in lowland Great Morava River – bioindication with bleak (*Alburnus alburnus*). 1st International Conference on Chemo and Bioinformatics ICCBIKG 2021, October 26-27, Kragujevac, Serbia, Book of Proceedings, pp 97-100. ISBN-978-86-82172-01-7. <https://doi.org/10.46793/ICCBI21.97M>

16. Đuretanović S, Veličković T, **Milošković A**, Radenković M, Nikolić M, Maguire I, Simić V (2021) Preliminary results regarding phylogeny of the noble crayfish (Decapoda, Astacidae, *Astacus astacus*) in Serbia. 1st International Conference on Chemo and Bioinformatics ICCBIKG 2021, October 26-27, Kragujevac, Serbia, Book of Proceedings, pp 222-225. ISBN-978-86-82172-01-7. <https://doi.org/10.46793/ICCBI21.222.DJ>

17. **Milošković A**, Kojadinović N, Radenković M, Veličković T, Đuretanović S, Simić V (2022) Aquatic species in studies of potentially toxic elements in waters of Serbia. 1th International Conference „Conference on advances in science and technology“ COAST 2022, May 26-29, Herceg Novi, Montenegro, Proceedings, pp 406-415. ISBN 978-9940-611-04-0.

18. Veličković T, Marić S, **Milošković A**, Đuretanović S, Radenković M, Kojadinović N, Simić V (2022) Preliminary results of genetic characterization of brown trout (*Salmo trutta* L.) from the "Tolišnica" reprocentar, Serbia. 1th International Conference „Conference on advances in science and technology“ COAST 2022, May 26-29, Herceg Novi, Montenegro, Proceedings, pp 421-427. ISBN 978-9940-611-04-0.

19. Simić V, Simić S, Ćirković M, Kovačević S, **Milošković A** (2012) Population status of Asian species, white and gray carp, in fishing waters of Serbia forty years after their introduction. „6th World Fisheries Congress“, Edinburg, Scotland, May 7-11, Book of abstracts p 183.

20. Veličković T, Radojković N, Bernáth G, Kovačević S, **Milošković A**, Radenković M, Petrović A, Horváth A, Simić V (2015) The application of cryopreservation as a method of conservation of endangered fish species in the case of hucho (*Hucho hucho*). „III World biodiversity congress“, Mokra Gora, Serbia, October 26-29, Abstracts p 114.

21. Simić V, Simić S, Petrović A, Đorđević N, Đuretanović S, **Milošković A**, Radenković M, Radojković N, Veličković T (2016) Efforts of Aquarium „PMF KG“ in biodiversity conservation of aquatic ecosystems in Serbia. Naučna konferencija povodom 20 godina Prirodno-matematičkog fakulteta iz oblasti prirodnih i matematičkih nauka“, Banja Luka, Republika Srpska, pp 19-20.

22. Jovanović J, Kolarević S, **Milošković A**, Radojković N, Simić V, Dojčinović B, Kračun-Kolarević M, Paunović M, Kostić J, Sunjog K, Timiljić J, Djordjević J, Gačić Z, Vuković-Gačić B (2017) Application of sos/umuc assay in eco/genotoxicology. 10th Balkan Congress of Microbiology, Microbiologia Balkanica'2017, November 16-18, Sofia, Bulgaria. Abstracts, p 385.

23. Simić V, Simić S, Petrović A, **Milošković A**, Đorđević N, Radenković M, Đuretanović S, Radojković N, Veličković T (2019) Role of the Center for fishery and biodiversity conservation of inland waters Aquarium “Kragujevac” in ex situ protection. International Conference Adriatic Biodiversity Protection AdriBioPro2019, April 7–10, Kotor, Montenegro, Book of Abstracts, p 84. ISBN 978-9940-9613-2-9. <https://doi.org/10.5281/zenodo.2614428>

24. Đuretanović S, Veličković T, **Milošković A**, Kojadinović N, Jakovljević M, Maguire I, Simić V (2021) Preliminary modification of the Eshippo Crayfish model. International Bioscience Conference and the 8th International PSU- UNS Bioscience Conference IBSC, November 25-26, Novi Sad, Serbia, Book of abstracts, pp 54-55. ISBN 978-86-7031-541-9.

25. Veličković T, Radenković M, Đuretanović S, **Milošković A**, Petrović A, Nikolić M, Simić V (2022) Status of *Salmo trutta* populations in some protected and unprotected areas in Serbia. International conference “Adriatic Biodiversity Protection - AdriBioPro2022”, June 13-17, Institute of

Marine Biology, Kotor, Montenegro. Book of Abstracts, p 84. ISBN 978-9940-9613-3-6. <https://doi.org/10.5281/zenodo.6635581>

<b>Proceedings of national scientific conferences</b>	<b>Sum</b> <b>2</b>
<p>1. Radenković M, <b>Milošković A</b>, Kojadinović N, Đuretanić S, Veličković T, Nikolić M, Jakovljević M, Simić V (2021) Ishrana grabljivih vrsta riba i njihov uticaj na održavanje stabilnosti akumulacije Bovan. XXVI Savetovanje o biotehnologiji sa međunarodnim učešćem, Mart 12-13, Čačak, Zbornik radova, str 345-350. DOI: 10.46793/SBT26.345R; ISBN 978-86-87611-80-1.</p> <p>2. Veličković T, Radojković N, <b>Milošković A</b>, Radenković M, Jerinić M, Perić M, Petrović A, Simić V (2018) Konzervacija biodiverziteta makrozoobentosa i riba vrela Mlave i Krupajskog vrela. Drugi kongres biologa Srbije, Osnovna i primenjena istraživanja, metodika nastave, Septembar 25-30, Knjiga sažetaka, str 119. ISBN 978-86-81413-08-1.</p>	
<b>Monographs of national importance</b>	<b>Sum</b> <b>1</b>
<p>1. Simić V, <b>Milošković A</b>, Radenković M, Radojković N, Veličković T (2018) Priručnik za softversku podršku sadržaja Hidroekologije i Konzervacione biologije u praksi (Hidrobiologija II). Univerzitet u Kragujevcu, Prirodno-matematički fakultet, Kragujevac, 120 str.; ilustr.; tiraž 150; Bibliografija uz svako poglavlje. ISBN 978-86-6009-056-2; Hidrobiologija – Računarska tehnologija – Priručnici; COBISS.SR-ID 264652556; CIP -Katalogizacija u publikaciji Narodna biblioteka Srbije 574.5(282):004.42(035).</p>	
<b>Scientific papers in national journals</b>	<b>Sum</b> <b>2</b>
<p>1. Veličković T, Antonijević A, Petrović A, Radojković N, <b>Milošković A</b>, Radenković M, Simić V (2018) Biodiversity Specificity of the Mlava and Krupaja springs-Proposal for Conservation Measures. Water Research and Management 8 (1):27-33. UDK: 592/595:556.36(282.249)(497.11)597.2/.5:556.36(282.249)(497.11)502.17:556.36(282.249)(497.11); ISSN: 2217-5237; COBBIS.SR-ID-266056972.</p> <p>2. Branković S, Glišić R, Đelić G, Topuzović M, Simić Z, <b>Milošković A</b>, Đekić V (2017) Bioaccumulation of Elements in Species <i>Polygonum</i></p>	

*Amphibium* L. in Reservoir "Gruža" (Serbia). Water Research and Management 7 (2):21-26. UDK: 582.665.11-19:669-018.674(285)(497.11). ISSN: 2217-5237; COBBIS.SR-ID-266056972.

<b>Technical solutions</b>	<b>Sum</b>
<b>Patents</b>	<b>Sum</b>

### CITATION OF SCIENTIFIC PAPERS

Papers of Dr. Aleksandra Milošković were cited 122 times in total (heterocitations).

### BRIEF DESCRIPTION OF RESEARCH IN THE PREVIOUS PERIOD

In the previous period, scientific research included complete hydrobiological research of aquatic ecosystems. Different communities of freshwater invertebrates and vertebrates were studied. A special emphasis of the research was on the detection of potentially toxic elements in the consumable part (meat) of commercially important fish species. Also, in the past period, efforts were made to find a "model organism", i.e. fish species that would be further used in toxicological studies. The research results were published in the form of one chapter in a monograph of international importance, several scientific papers in journals from ISI list, and announcements at international and national scientific conferences. Research on the presence of microplastics in the aquatic ecosystems of Serbia has also been started. The analysis included the content of microplastics in the digestive tract of freshwater pelagic species bleak (*Alburnus alburnus*) in reservoirs in Serbia and wider. In 2022, research was started on embryos of the zebrafish species (*Danio rerio*), which will be tested for the toxicity of chemical compounds using toxicity tests.

### BRIEF DESCRIPTION OF PLANNED RESEARCH IN THE NEXT PERIOD

In the next period, hydrobiological research will continue with a special emphasis on contaminated aquatic ecosystems. The goal of the research will be to determine the presence of potentially toxic elements in the consumable part (meat) of commercially important fish species in the aquatic ecosystems of Serbia and microplastics in the intestinal tract of the pelagic fish species bleak (*Alburnus alburnus*) in potentially contaminated reservoirs. The research will include both field work, which involves the collection of biological material, and work in the laboratory, which involves the preparation of biological material (fish tissues) for further analysis of the presence of potentially toxic elements and microplastics and the analysis of the mentioned pollutants. Also, work will continue in the laboratory with the zebrafish (*Danio rerio*), using toxicity tests.