



# Sara Milojevic

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**ORCID**: <https://orcid.org/0000-0002-9755-2762>

**Date of birth**: 17/01/1996 **Nationality**: Serbian

## WORK EXPERIENCE

[ 13/05/2022 – Current ]

### Junior Researcher of Molecular Biology

**Faculty of Science, University of Kragujevac** <https://ibe.pmf.kg.ac.rs/index.html>

**City**: Kragujevac | **Country**: Serbia | **Name of unit or department**: Institut for Biology and Ecology

- conducting research
- literature review
- data analysis
- participation in interdisciplinary research projects and meetings
- documentation and reporting
- laboratory management
- presentation and results
- training and mentorship
- etc.

## EDUCATION AND TRAINING

[ 2015 – 2019 ]

### Bachelor's Degree in Ecology

**Faculty of Science University of Kragujevac** <https://www.pmf.kg.ac.rs/>

**City**: Kragujevac | **Country**: Serbia | **Field(s) of study**: Natural sciences, mathematics and statistics | **Final grade**: 9.10

[ 2019 – 2021 ]

### Master's Degree in Biology

**Faculty of Science University of Kragujevac** <https://www.pmf.kg.ac.rs/>

**City**: Kragujevac | **Country**: Serbia | **Field(s) of study**: Natural sciences, mathematics and statistics: • *Biology* | **Final grade**: 9.80 | **Thesis**: "Evaluation of pathophysiological effects of clinical concentrations of proinflammatory interleukin-6 detected in patients with COVID-19 on homeostasis of human trophoblast cells"

[ 2021 – Current ]

### phD in Biology

**Faculty of Science University of Kragujevac** <https://www.pmf.kg.ac.rs/>

**City**: Kragujevac | **Country**: Serbia | **Field(s) of study**: Natural sciences, mathematics and statistics: • *Biology* • *Inter-disciplinary programmes and qualifications involving natural sciences, mathematics and statistics*

- Molecular biology of cancer
- Biochemistry and pharmacology of rosmarinic acid and phenethyl esters
- In silico analysis (computational modeling and simulations)
- In vitro analysis (laboratory-based experiments with cell cultures)
- Cell culture techniques (handling and maintenance of choriocarcinoma cells)
- Investigation of cellular processes (proliferation, migration, and apoptosis)
- Bioinformatics tools for molecular mechanism analysis
- Experimental design and data interpretation
- Statistical analysis of research data
- Scientific reporting and presentation of research findings

## LANGUAGE SKILLS

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**Mother tongue(s):** Serbian

**Other language(s):**

### English

LISTENING B2 READING B2 WRITING B2

SPOKEN PRODUCTION B2 SPOKEN INTERACTION B2

### German

LISTENING A1 READING A1 WRITING A1

SPOKEN PRODUCTION A1 SPOKEN INTERACTION A1

### Spanish

LISTENING A2 READING A1 WRITING A1

SPOKEN PRODUCTION A1 SPOKEN INTERACTION A1

*Levels: A1 and A2: Basic user; B1 and B2: Independent user; C1 and C2: Proficient user*

## DIGITAL SKILLS

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### My Digital Skills

#### Programming Languages

R programming | Python

#### Data Analysis and Statistics

GraphPad Prism | R Studio | SPSS

#### Bioinformatics Tools

GO | GEO

#### Software and Applications

Google Office Package | Skype | Microsoft Office Suite

#### Web-based Research and Databases

NCBI | Scopus | Google Scholar | PubMed

## PUBLICATIONS

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- [ 2022 ] [The physiological role of interleukin-6 in the placenta and its pathological potential in pregnancy](#)
- Matić M, Obradović A, Paunović M, Milošević M, **Milojević S**, Planojević N, Ognjanović B. The physiological role of interleukin-6 in the placenta and its pathological potential in pregnancy. *Biologia Serbica*, 44(1), 2022., pp. 52–57. Zenodo. doi: 10.5281/zenodo.7075110.
- [ 2024 ] [Freshwater algae \*Cladophora glomerata\* and \*Vaucheria\* sp. from Serbia as sources of bioactive compounds: Chemical analysis and biological activities](#)
- Stefanović O, Rakonjac A, Nikodijević D, **Milojević S**, Dinić A, Simić S. Freshwater algae *Cladophora glomerata* and *Vaucheria* sp. from Serbia as sources of bioactive compounds: Chemical analysis and biological activities. *Archives of Biological Sciences*, 76(2), 2024, p. 175-189. doi: 10.2298/ABS240215012S.
- [ 2024 ] [Exploring \*Amanita muscaria\* \(L.\) Lam.: Cytotoxic, proapoptotic and antiferroptotic effect of acetone extract on JAR choriocarcinoma cell line](#)
- Milojević S**, Nikodijević D, Milutinović M, Kosanić M, Petrović N, Jovanović Krivokuća M, Nacka-Aleksić M. Exploring *Amanita muscaria* (L.) Lam.: Cytotoxic, proapoptotic and antiferroptotic effect of acetone extract on JAR choriocarcinoma cell line. *Kragujevac Journal of Science*, Volume 46(1), 2024, 121-135. Doi:10.5937/KgJSci2401121M

## CONFERENCES AND SEMINARS

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- [ 2021 ] **10th Conference of Serbian Biochemical Society „Biochemical Insights into Molecular Mechanisms“**  
Kragujevac, Serbia
- Milojević S**, Obradović A, Paunović M, Milošević M, Ognjanović B, Matić M. Evaluation of pathophysiological effects of clinical concentrations of proinflammatory interleukin-6 detected in patients with COVID-19 on homeostasis of human trophoblast cells. *10th Conference of Serbian Biochemical Society „Biochemical Insights into Molecular Mechanisms“, Kragujevac, Serbia*. 2021, pp.101. ISBN 978-86-7220-108-6 (FOC).
- [ 2022 ] **Treći kongres biologa Srbije** Zlatibor, Serbia
- Planojević N, Obradović A, **Milojević S**, Vukić M, Vuković N, Matić M. Ispitivanje antitumorskog delovanja esencijalnog ulja crnog bibera (*Piper nigrum* L.) u ćelijama humanog hepatocelularnog karcinoma HepG2. *Treći kongres biologa Srbije, Zlatibor, Srbija*. 2022, str. 381, ISBN: 978-86-81413-09-8.
- Matić M, Obradović A, Paunović M, **Milojević S**, Milošević M, Ognjanović B. Fiziološke uloge interleukina-6 u trofoblastima i patofiziološke implikacije. *Treći kongres biologa Srbije, Zlatibor, Srbija*. 2022, str. 345, ISBN: 978-86-81413-09-8.
- [ 2023 ] **Prva konferencija Srpskog biološkog društva „Stevan Jakovljević“**  
Kragujevac, Serbia
- Blagojević S, Jovankić J, Andrić B, Milutinović M, Nikodijević D, **Milojević S**, Radenković N, Arsenijević P, Cvetković D. Dijagnostički značaj mikroRNK-126 u ranom stadijumu adenokarcinoma endometrija. *Prva konferencija Srpskog biološkog društva „Stevan Jakovljević“, Kragujevac, Srbija*, 2023., pp.102. ISBN 978-86-905643-4-7.
- [ 2023 ] **CoMBoS2 - 2nd Congress of Molecular Biologists of Serbia** Belgrade, Serbia
- Blagojević S, Jovankić J, Andrić B, Milutinović M, Nikodijević D, **Milojević S**, Radenković N, Arsenijević P, Cvetković D. MIR200A and MIR210 as potential markers in detection of endometrial adenocarcinomas. *CoMBoS2 - 2nd Congress of Molecular Biologists of Serbia, Belgrade, Serbia*. 2023, pp. 54. ISBN 978-86-7078-173-3.
- [ 2024 ] **XIII Conference of Serbian Biochemical Society "Amplifying Biochemistry Concepts"**  
Kragujevac, Serbia
- Milojević S**, Nikodijević D, Milutinović M, Kosanić M, Petrović N, Jovanović Krivokuća M, Nacka-Aleksić M. Cytotoxic, Proapoptotic, and Antiferroptotic Effects of *Amanita muscaria* on Choriocarcinoma Cells. *XIII Conference of Serbian Biochemical Society "Amplifying Biochemistry Concepts", Kragujevac, Serbia*. 2024.

## NETWORKS AND MEMBERSHIPS

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- [ 2023 – Current ] **Serbian Biological Society "Stevan Jakovljević"** Kragujevac, Serbia  
membership
- [ 2023 – Current ] **Serbian Biochemical Society** Belgrade, Serbia  
membership

## COMMUNICATION AND INTERPERSONAL SKILLS

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### Ability to communicate and collaborate effectively

- **Verbal and Written Communication** (clear conveyance of information in both spoken and written form)
- **Active Listening** (attentively listening and responding to others' needs)
- **Presentation Skills** (confidently delivering presentations with visual aids)
- **Teamwork** (effective collaboration within multidisciplinary teams)
- **Conflict Resolution** (ability to mediate and resolve disputes)
- **Negotiation** (successful negotiation skills for mutual benefits)
- **Emotional Intelligence** (understanding others' emotions and adjusting your approach)
- **Cultural Sensitivity** (communicating effectively with people from diverse backgrounds)

## DRIVING LICENCE

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**Cars:** B

## HOBBIES AND INTERESTS

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### Volleyball

- amateur playing
- professional referee for 8 years