



# Stefan Blagojević

**Nationality:** Serbian **Date of birth:** 05/08/1993 **Gender:** Male

✉ **Email address:** [stefan.blagojevic@pmf.kg.ac.rs](mailto:stefan.blagojevic@pmf.kg.ac.rs)

in **LinkedIn:** <https://www.linkedin.com/in/stefan-blagojevic-91a347195/>

👤 **ResearchGate:** <https://www.researchgate.net/profile/Stefan-Blagojevic>

👤 **ORCID:** <https://orcid.org/0000-0002-5640-6267>

🌐 **Website:** <https://www.pmf.kg.ac.rs/?id=646>

📍 **Work:** Radoja Domanovića 12, 34000 Kragujevac (Serbia)

## ABOUT ME

---

**Research topic:** Identification of potential tumor markers in cancer by studying miRNAs, mRNAs, proteins, and DNA polymorphisms. Research involves the application of molecular and cellular biology techniques to better understand cancer mechanisms, with a particular focus on cancer proliferation, invasion, migration, and angiogenesis.

## EDUCATION AND TRAINING

---

### Bachelor's degree in biology

*Faculty of Science, University of Kragujevac* [ 2012 – 2016 ]

City: Kragujevac | Country: Serbia | Website: <https://www.pmf.kg.ac.rs/>

### Master's degree in biology – molecular biology

*Faculty of Science, University of Kragujevac* [ 2016 – 2017 ]

City: Kragujevac | Country: Serbia | Website: <https://www.pmf.kg.ac.rs/>

### ERASMUS+ CREDIT MOBILITY PROGRAMME

*Faculty of Biology and Environmental Protection, University of Lodz* [ 02/2017 – 07/2017 ]

City: Lodz | Country: Poland | Website: <https://www.uni.lodz.pl/en/>

### PhD in Biology

*Faculty of Science, University of Kragujevac* [ 2017 – Current ]

City: Kragujevac | Country: Serbia | Website: <https://www.pmf.kg.ac.rs/>

- Scientific Writing (preparation of research papers, reports, and presentations)
- Experimental Design
- Equipment Maintenance (troubleshooting of lab equipment)
- Cell Culture and tissues (maintenance, subculturing, and cryopreservation of cell lines)
- PCR (Polymerase Chain Reaction) and qPCR (Quantitative PCR)
- Western Blotting and SDS-PAGE
- ELISA (Enzyme-Linked Immunosorbent Assay)
- Immunohistochemistry (IHC) and Immunofluorescence (IF)
- Microscopy (light, fluorescence, and confocal)
- RNA/DNA Extraction and Purification
- Protein Purification and Quantification (Bradford)
- Spectrophotometry
- Electrophoresis (DNA, RNA, and protein gel electrophoresis)
- RFLP (Restriction fragment length polymorphism)
- Sanger sequencing

## WORK EXPERIENCE

---

### Junior Researcher

*Faculty of Science, University of Kragujevac* [ 23/06/2018 – 16/06/2021 ]

City: Kragujevac | Country: Serbia

- conducting research
- literature review
- data analysis
- participation in interdisciplinary conferences and meetings
- documentation and reporting
- laboratory management
- presentation and results

### Research Assistant

*Faculty of Science, University of Kragujevac* [ 16/06/2021 – Current ]

City: Kragujevac | Country: Serbia

- conducting research
- literature review
- data analysis
- publication of manuscripts
- participation in research project proposals
- documentation and reporting
- laboratory management
- presentation and result
- led practical exercises for second-year biology students and master's molecular biology and physiology students

## PROJECTS

---

[ 23/06/2018 – 31/12/2019 ]

**Preclinical Investigation of Bioactive Substances – PIBAS** Project no. III41010 funded by the Ministry of Education, Science and Technological Development, Republic of Serbia.

## NETWORKS AND MEMBERSHIPS

---

**Serbian Biological Society "Stevan Jakovljević"** Membership

**Serbian Biochemical Society** Membership

**Serbian Society for Molecular Biology** Membership

## HONOURS AND AWARDS

---

[ 24/09/2021 ] Serbian Biochemical Society

**3rd prize for poster presentation** A poster entitled "Impact of gold (III) and ruthenium (II) complexes on miRNA expression involved in metastasis on primary ovarian cell culture isolated from ascites" was awarded the 3rd prize for poster presentation at the X Conference of Serbian Biochemical Society.

[ 2015 ] Ministry of Education, Science and Technological Development, Republic of Serbia.

**Scholarship of Fond for young talents "Dositeja"**

## VOLUNTEERING

---

Active participant in the "Researcher's Night", "Museum Night" and "Science Festival" events.

## DIGITAL SKILLS

---

Microsoft Office™ tools / GraphPad Prism / SPSS / Chromas / MEGA / BLAST / Ensemble / CalcuSyn / ImageJ / ChemAxon Marvin

## LANGUAGE SKILLS

---

**Mother tongue(s):** Serbian

**Other language(s):**

**English**

**LISTENING B2 READING B2 WRITING B2**

**SPOKEN PRODUCTION B2 SPOKEN INTERACTION B2**

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

## DRIVING LICENCE

---

**Driving Licence:** B

## PUBLICATIONS

---

[2024]

**Resistance to 5-fluorouracil: The molecular mechanisms of development in colon cancer cells** Radenković N, Nikodijević D, Jovankić J, Blagojević S, Milutinović M. (2024). Resistance to 5-fluorouracil: The molecular mechanisms of development in colon cancer cells. *European Journal of Pharmacology*, 983: 176979.

[2024]

**Synthesis, structural properties and DNA protective activity of ferrocenyl N-acyl pyrazolines** Novaković SB, Bogdanović GA, Ratković Z, Blagojević S, Matić SLJ, Muškinja J. (2024). Synthesis, structural properties and DNA protective activity of ferrocenyl N-acyl pyrazolines. *Applied Organometallic Chemistry*, 38(6), e7464.

[2023]

**Expression analysis of COPB2 and Bcl-2 in early stages of endometrial carcinoma** Andrić B, Cvetković D, Blagojević S, Stanković M, Kokošar N, Sretenović D, Šljivančanin D, Milošević B, Milošev D, Arsenijević P. (2023). Expression analysis of COPB2 and Bcl-2 in early stages of endometrial carcinoma. *Clinical and Experimental Obstetrics & Gynecology*, 50(12), 254.

[2023]

**MicroRNA expression as a diagnostic parameter in early endometrial cancer** Blagojević S, Andrić B, Jovankić J, Milutinović M, Nikodijević D, Arsenijević P, Cvetković D. (2023). MicroRNA expression as a diagnostic parameter in early endometrial cancer. *International Journal of Gynecological Cancer*, 33(9), 1394-1401.

[2020]

**Dinuclear ruthenium(II) polypyridyl complexes: Mechanistic study with biomolecules** Medjedović M, Simović A, Čočić D, Milutinović M, Senft L, Blagojević S, Milivojević N, Petrović B. (2020). Dinuclear ruthenium(II) polypyridyl complexes: Mechanistic study with biomolecules, DNA/BSA interactions and cytotoxic activity. *Polyhedron*, 178, 114334.

[2022]

**The biological activity of *Ocimum minimum* L. flowers on redox status parameters in HCT-116 colorectal carcinoma cells** Jovankić JV, Nikodijević DD, Blagojević SZ, Radenković NM, Jakovljević DZ, Grbović FJ, Cvetković DM. (2022). The biological activity of *Ocimum minimum* L. flowers on redox status parameters in HCT-116 colorectal carcinoma cells. *Kragujevac Journal of Science*, 44, 155-168.

[2021]

### **DNA-based molecular identification of *Urnula mediterranea* (Ascomycota, Pezizales) collected in central**

**Serbia** Arsenijević DD, Blagojević SZ, Planojević NS, Nikezić AG, Vidanović DS, Milosavljević N, Marković SD. (2021).

DNA-based molecular identification of *Urnula mediterranea* (Ascomycota, Pezizales) collected in central Serbia. *Kragujevac Journal of Science*, 43, 53-62.

[2020]

### **Bioinformatics online support for bioactive substances cytotoxicity testing and their statistical analysis**

Blagojević SZ, Cvjetković VM, Nikezić AG, Milutinović MG, Marković SD. (2020). Bioinformatics online support for bioactive substances cytotoxicity testing and their statistical analysis. *Kragujevac Journal of Science*, 42, 55-72.

[2020]

### **Comparative analysis of human DNA extraction methods and mitochondrial DNA HV1 and HV2 haplogroup**

**determination** Nikezić AG, Blagojević SZ, Čupurdija MĐ, Planojević NS, Jovankić JV, Rakobradović JD, Vidanović DS, Arsenijević DD, Marković SD. (2020). Comparative analysis of human DNA extraction methods and mitochondrial DNA HV1 and HV2 haplogroup determination. *Kragujevac Journal of Science*, 42, 73-83.

## **CONFERENCES AND SEMINARS**

---

[ 19/09/2024 – 20/09/2024 ] Kragujevac

### **Serbian Biochemical Society XIII Conference “Amplifying Biochemistry Concepts”**

1. Blagojević S, Jovankić J, Andrić B, Nikodijević D, Milojević S, Arsenijević P, Milutinović M, Cvetković D. Dysregulation in expression of miRNA machinery genes *DICER1* and *AGO2* in endometrial adenocarcinoma. Serbian Biochemical Society XIII Conference “Amplifying Biochemistry Concepts”, Kragujevac, 19-20.09.2024. pp123. ISBN: 978-86-7220-141-3 (FOC)
2. Radenković N, Nikodijević D, Jovankić J, Blagojević S, Milutinović M. Isorhamnetin activates apoptotic signaling pathways in colon cancer cells. Serbian Biochemical Society 13th Conference „Amplifying Biochemistry Concepts”, Kragujevac, Serbia. September 19-20.09.2024. pp.112. ISBN: 978-86-7220-141-3 (FOC)

[ 29/05/2024 – 01/06/2024 ] Herceg Novi

### **3rd International Conference „Conference on Advances in Science and Technology” COAST 2024**

Radenković N, Nikodijević D, Jovankić J, Blagojević S, Nikezić A, Ristanović F, Milutinović M. Mechanisms of resistance development to 5-fluorouracil in HT-29 colorectal cancer cells. 3rd International Conference „Conference on Advances in Science and Technology” COAST 2024, Herceg Novi, Montenegro. 29.05-01.06.2024. pp.76.

[ 01/11/2023 – 30/11/2023 ] Basel

**Conference on Medicinal Chemistry** Muškinja J, Ratković Z, Milutinović M, Blagojević S, Novaković SB, Bogdanović GA, Matić S. *In vitro* DNA protective potential of selected ferrocenyl N-acyl pyrazolines, in Proceedings of the 9th International Electronic Conference on Medicinal Chemistry, 1–30.11.2023. MDPI: Basel, Switzerland.

Link: <https://doi.org/10.3390/ECMC2023-15643>

[ 06/10/2023 – 08/10/2023 ] Belgrade

### **CoMBoS2 - 2nd Congress of Molecular Biologists of Serbia**

1. 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. 06-08.10.2023, pp. 54. ISBN: 978-86-7078-173-3
2. Radenković N, Nikodijević D, Jovankić J, Blagojević S, Milutinović M. Isorhamnetin - Antitumor potential and impact on drug resistance in colorectal carcinoma cell lines. CoMBoS2 - 2nd Congress of Molecular Biologists of Serbia, Belgrade, Serbia. 06-08.10.2023, pp. 145. ISBN 978-86-7078-173-3
3. Jovankić J, Nikodijević D, Milutinović M, Blagojević S, Radenković N, Cvetković D. Imbalance in redox homeostasis induced by Orlistat in breast cancer cells. CoMBoS2 - 2nd Congress of Molecular Biologists of Serbia, Belgrade, Serbia. 06-08.10.2023, pp. 150. ISBN 978-86-7078-173-3

[ 21/09/2023 – 23/09/2023 ] Belgrade

**Serbian Biochemical Society Twelfth Conference „Biochemistry in Biotechnology”** Radenković N, Milutinović M, Nikodijević D, Jovankić J, Blagojević S, Jurišić V, Predojević D, Vukajlović F, Pešić S. Silk of Indian meal moth induces apoptosis of SW-480 colorectal cancer cells. Serbian Biochemical Society Twelfth Conference „Biochemistry in Biotechnology”, Belgrade, Serbia. 21-23.09.2023, pp. 135. ISBN: 978-86-7220-140-6 (FOC)

[ 20/09/2023 – 22/09/2023 ] Kragujevac

**Prva konferencija Srpskog biološkog društva „Stevan Jakovljević”**

1. 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 endometrijuma. Prva konferencija Srpskog biološkog društva „Stevan Jakovljević”, Kragujevac, Srbija 20-22.09.2023, pp.102. ISBN 978-86-905643-4-7
2. Jovankić J, Milutinović M, Blagojević S, Nikodijević D, Radenković N, Cvetković D. Efekat *Ocimum minimum* L. na koncentraciju lipida u MDA-MB-468 ćelijama karcinoma dojke. Prva konferencija Srpskog biološkog društva „Stevan Jakovljević”, Kragujevac, Srbija 20-22.09.2023, pp.103. ISBN 978-86-905643-4-7

[ 03/12/2021 ] Belgrade

**The 5th Congress of the Serbian Association for Cancer Research with international participation „Translational potential of cancer research in Serbia”**

1. Jovankić JV, Nikodijević DD, Milutinović MG, Nikezić AG, Planojević NP, Blagojević SZ, Cvetković DM. Anti-obesity drug Orlistat (Xenical®) induces antiangiogenic potential in breast cancer cell lines. The 5th Congress of the Serbian Association for Cancer Research with international participation „Translational potential of cancer research in Serbia”, Virtual event, Belgrade, Serbia, 03.12.2021, pp. 53. ISBN: 987-86-919183-3-0
2. Nikodijević D, Jovankić J, Cvetković D, Nikezić A, Blagojević S, Planojević N, Milutinović M. Bee venom and melittin induce apoptosis in colon cancer cell lines by Caspase 8 activation. The 5th Congress of the Serbian Association for Cancer Research with international participation „Translational potential of cancer research in Serbia”, Virtual event, Belgrade, Serbia, 03.12.2021, pp. 75. ISBN 978-86-919183-3-0

[ 24/09/2021 ] Kragujevac

**10th Conference of Serbian Biochemical Society “Biochemical Insights into Molecular Mechanisms”**

1. Blagojević S, Planojević N, Nikezić A, Milutinović M, Jovankić J, Arsenijević D, Radisavljević S, Međedović M, Petrović B, Arsenijević P, Jović N, Mujković S, Marković S. Impact of gold(III) and ruthenium(II) complexes on miRNA expression involved in metastasis on primary ovarian cell culture isolated from ascites. 10th Conference of Serbian Biochemical Society “Biochemical Insights into Molecular Mechanisms”, Kragujevac, Serbia, 24.09.2021, pp. 52. ISBN 978-86-7220-108-6 (FOC)
2. Nikezić A, Jovankić J, Nikodijević D, Milutinović M, Blagojević S, Planojević N, Grbović F, Marković S. Anticancer potential of *Alchemilla vulgaris* L. on triple negative breast cancer cell lines. 10th Conference of Serbian Biochemical Society “Biochemical Insights into Molecular Mechanisms”, Kragujevac, Serbia, 24.09.2021, pp. 110. ISBN 978-86-7220-108-6 (FOC)
3. Planojević N, Blagojević S, Nikezić A, Milutinović M, Jovankić J, Radenković N, Radisavljević S, Međedović M, Petrović B, Arsenijević P, Jović N, Mujković S, Marković S. The influence of newly synthesized Au(III) and Ru(II) complexes on gene expression on primary ovarian cancer cell culture from ascites. 10th Conference of Serbian Biochemical Society “Biochemical Insights into Molecular Mechanisms”, Kragujevac, Serbia, 24.09.2021, pp.128. ISBN 978-86-7220-108-6 (FOC)

[ 14/10/2019 – 16/10/2019 ] Belgrade

**9th Conference of Serbian Biochemical Society “Diversity of Biochemistry”**

1. Nikezić A, Blagojević S, Planojević N, Ćupurdija M, Jovankić J, Cvetković D, Veličković T, Simić V, Marković SD. Comparative analysis of DNA extraction methods from human buccal swabs and fish tissue samples. 9th

Conference of Serbian Biochemical Society "Diversity of Biochemistry". Belgrade, Serbia 14-16. 10. 2019, pp. 140. ISBN: 987-86-7220-101-7

2. Čupurdija M, Planojević N, Blagojević S, Nikezić A, Jovankić J, Milutinović M, Lazović M, Grbović F, Marković SD. Comparative study of different DNA isolation methods from plants and fungus. 9th Conference of Serbian Biochemical Society "Diversity of Biochemistry", Belgrade, Serbia, 14-16.10.2019, pp. 83. ISBN: 987-86-7220-101-7

[ 16/10/2018 ] Novi Sad

**8th Conference of Serbian Biochemical Society "Coordination in Biochemistry and Life"** Blagojević S, Milutinović M, Milivojević N, Živanović M, Marković S. Cytotoxic and proapoptotic effects of extracts from *Vitis vinifera* L. petiole on colon cancer cell lines. 8th Conference of Serbian Biochemical Society "Coordination in Biochemistry and Life", Novi Sad, Serbia, 16.10.2018, pp. 117. ISBN: 978-86-7220-096-6

[ 10/10/2017 ] Belgrade

**7th Conference of Serbian Biochemical Society "Biochemistry of Control in Life and Technology"** Blagojević SZ, Furtula B, Nikezić AG, Milutinović MG, Živanović MN, Marković SD. Statistical clustering of IC50 values as indicators of cytotoxicity of bioactive substances on HCT-116 and SW-480 cell line on colon cancer. 7th Conference of Serbian Biochemical Society "Biochemistry of Control in Life and Technology", Belgrade, Serbia, 10.10.2017, pp. 129. ISBN: 978-86-7220-091-1