

Nevena Vujinović



Curriculum vitae

Personal information:

- Birth: may 20, 1993
- Nationality: Serbian
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Personal skills:

- Mother tongue(s): Serbian
- Other language(s): English – advanced level
German – basic level
Latin – basic level
- Other skills: MS Office (Word, Excel, Power Point), Windows, SPSS, CalcuSyn, Ensembl, Primer3, OligoCalc.

Education:

- PhD student,
Faculty of Sciences, Kragujevac (Serbia);
2017- currently
- Masters of Science in Molecular biology
Faculty of Science, Kragujevac (Serbia);
2016 – 2017
average mark: 9.67
- Bachelor in Biology
Faculty of Sciences, Kragujevac (Serbia);
2012 – 2016
average mark: 8.64
- Pediatric nurse
High School for Medical Technicians „, Sestre Ninkovic",
Kragujevac (Serbia)
2008 - 2012

Work experience:

- Research Assistant
Department of Biology and Ecology, Faculty of Science,
University of Kragujevac, Serbia
2021 – currently
- Junior Researcher
Department of Biology and Ecology, Faculty of Science,
University of Kragujevac, Serbia
2018 - 2021

Researching work:

Research in the Field of Molecular and Cell Biology of Cancer focused on understanding the cellular and molecular mechanisms driving tumor initiation, growth, and metastasis. The research involves analyzing signaling pathways and interactions between cancer cells and their microenvironment. The objective is to identify key biomarkers and novel therapeutic targets to improve cancer treatment strategies.

Scientific and other projects:

Preclinical Testing of Bioactive Substances (PIBAS), Ministry of Science and Education, Republic Serbia 41010 /

- Scholarship fellow from 2018
- Researcher from 2019.

Bibliography:

Publications:

1. Radisavljević S, Čočić D, Jovanović S, Šmit B, Petković M, Milivojević N, **Planojević N**, Marković S, Petrović B. Synthesis, characterization, DFT study, DNA/BSA-binding affinity, and cytotoxicity of some dinuclear and trinuclear gold(III) complexes. *Journal of Biological Inorganic Chemistry*, 2019, 24: 1057–1076, ISSN: 0949-8257, IF2018: 3.632; DOI:10.1007/s00775-019-01716-8. **M21**
2. Jovanović MM, Šeklić DS, Rakobradović JD, **Planojević NS**, Vuković NL, Vukić MD, Marković SD. Royal jelly and Trans-10-Hydroxy-2-Decenoic Acid Inhibit Migration and Invasion of Colorectal Carcinoma Cells. *Food Technology and Biotechnology*. 2022; 60(2): 213-224. ISSN: 1330-9862, IF (2020) 3.918 doi: 10.17113/ftb.60.02.22.7495. **M21**

3. Soldatović T, Selimović E, Šmit B, Asanin D, **Planojević N**, Marković S, Puchta R, Alzoubi B. Interactions of zinc(II) complexes with 5'-GMP and their cytotoxic activity. *Journal of Coordination Chemistry*, 2019, 72 (4): 690–706, ISSN: 0095-8972, IF2018: 1.685; DOI:10.1080/00958972.2019.1569229. **M22**
4. Grujičić D, Marković A, Tubić Vukajlović J, Stanković M, Radović Jakovljević M, Ćirić A, Djordjević K, **Planojević N**, Milutinović M, Milošević-Djordjević O. Genotoxic and cytotoxic properties of two medical plants (*Teucrium arduini* L. and *Teucrium flavum* L.) in relation to their polyphenolic contents. *Mutat Res Gen Tox En*, 2020, 852: 2-9. ISSN: 1383-5718, IF2020: 2.506; DOI: 10.1016/j.mrgentox.2020.503168. **M22**
5. Nikezić A, Blagojević S, Ćupurdija M, **Planojević N**, Jovankić J, Rakobradović J, Vidanović D, Arsenijević D, Marković S. Comparative analysis of human DNA extraction methods and mitochondrial DNA HV1 and HV2 haplogroup determination. *Kragujevac J. Sci*, 2020, 42: 73-83. ISSN: 1450-9636. **M24**
6. Arsenijević DD, Blagojević SZ, **Planojević NS**, Nikezić AG, Vidanović DS, Milosavljević N, Marković SD. DNA-based molecular identification of *Urnula mediterranea* (Ascomycota, Pezizales) collected in central Serbia. *Kragujevac J. Sci*, 2021, 43: 53-62. ISSN: 1450-9636. **M24**
7. Stanković MM, Arsenijević DD, **Planojević NS**, Terzić JN, Stefanović OD. BIOACTIVE COMPOUNDS FROM *Taraxacum officinale* EXTRACTS OBTAINED BY OPTIMIZED ULTRASOUND-ASSISTED EXTRACTION. *Kragujevac J. Sci*, 2022, 44: 169–187. ISSN: 1450-9636. doi: 10.5937/KgJSci2244169S. **M24**
8. Matić M, Obradović A, Paunović M, Milošević M, Milojević S, **Planojević N**, Ognjanović B. (2022). The physiological role of interleukin-6 in the placenta and its pathological potential in pregnancy. In *Biologia Serbica* (Vol. 44, Number 1, pp. 52–57). Zenodo. <https://doi.org/10.5281/zenodo.7075110> **M51**

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1. Soldatović T, Selimović E, Šmit B, Asanin D, **Planojević N**, Marković S, Puchta R, Alzoubi B. Interactions of zinc(II) complexes with N-donor ligands with 5'-GMP and their cytotoxic activity, 5th International Electronic Conference on Medicinal Chemistry, Sciforum Electronic Conference Series, vol. 5, no. 027261, Switzerland, 1. - 30. November 2019, pp. 1 – 11. ISBN: 10.3390/ECMC2019-06286. **M33**
2. Jovanović MM, Šeklić DS, Vukić MD, Vuković NL, **Planojević NS**, Marković SD. Unsaturated Fatty Acid 10H2DA Content in Serbian Royal Jelly and Its Effects on Motility of Colorectal Carcinoma Cell Lines. The 25th International Electronic Conference on Synthetic Organic Chemistry *Chem. Proc*, 1. – 15. november 2022, ECSOC-25 **M33**
3. Nikezić A, Blagojević S, **Planojević N**, Čupurdija M, Jovankić J, Cvetković D, Veličković T, Simić V, Marković S. 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. November 14-16. 2019, pp. 140. ISBN: 987-86-7220-101-7 (FOC) **M34**
4. Čupurdija M, **Planojević N**, Blagojević S, Nikezić A, Jovankić J, Milutinović M, Lazović M, Grbović F, Marković S. Comparative study of different DNA isolation methods from plants and fungus. 9th Conference of Serbian Biochemical Society "Diversity of Biochemistry", Belgrade, Serbia. November 14-16. 2019, pp. 83. ISBN: 978-86-7220-101-7 (FOC) **M34**
5. **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. September 24. 2021, pp.128. ISBN 978-86-7220-108-6 (FOC) **M34**
6. 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. September 24. 2021, pp. 52. ISBN 978-86-7220-108-6 (FOC) **M34**
7. 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. September 24. 2021, pp. 110. ISBN 978-86-7220-108-6 (FOC). **M34**
 8. Stefanović O, Stanković M, Terzić J, Arsenijević D, **Planojević N**, Radenković N, Marković S. Antibacterial and cytotoxic activity of *Tanacetum macrophyllum* extracts. 10th Conference of Serbian Biochemical Society “Biochemical Insights into Molecular Mechanisms”, Kragujevac, Serbia. September 24. 2021, pp.153. ISBN 978-86-7220-108-6 (FOC) **M34**
 9. 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, December 3, 2021., pp. 53, ISBN: 987-86-919183-3-0 **M64**
 10. 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. 5th CONGRESS OF THE SERBIAN ASSOCIATION FOR CANCER RESEARCH "TRANSLATIONAL POTENTIAL OF CANCER RESEARCH IN SERBIA", Belgrade, December 2021, P48, page 75. ISBN 978-86-919183-3-0 **M64**
 11. **Планојевић Н**, Обрадовић А, Милојевић С, Вукић М, Вуковић Н, Матић М. Испитивање антитуморског деловања есенцијалног уља црног бибера (*Piper nigrum* L.) у ћелијама хуманог хепатоцелуларног карцинома HepG2. Трећи конгрес биолога Србије, Златибор, Србија. Септембар 21 – 25. 2022, стр. 381. **M64**

Additional work:

In her research title, Nevena Planojević coordinated and participated in the experimental work of biology students at the Faculty of Science in

Kragujevac who produced their final papers in the field of Animal and Human Physiology and Molecular Biology in the Laboratory of Cellular and Molecular Biology.

Active participant at the "Researcher's Night" and "Science Festival" events, where she promoted scientific work as a representative of the Department of Biology and Ecology, Faculty of Science, University of Kragujevac.