



PROFILE

Date of birth: 24.01.1994.

Place of birth: Jagodina, Serbia

Nationality: Serbian

Present citizenship: Serbia

CONTACT

Work address:

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JOVICA BRANKOVIĆ

Research Assistant

University of Kragujevac, Faculty of Science, Department of Chemistry

EDUCATION

University of Kragujevac, Faculty of Science

2019 – present

Chemistry PhD

University of Kragujevac, Faculty of Science

2018 – 2019

Master's degree-Chemistry

University of Kragujevac, Faculty of Science

2014 – 2018

Bachelor's degree- Chemistry (Research & Development)

Medical school

2009 – 2013

Secondary School

Čuprija, Serbia

Primary school

2001 – 2009

Duboka, Serbia

BIBLIOGRAPHY

- M. D. Vukić, **J. Branković**, M. B. Đukić, Chemical composition and biological effects of *Citrus aurantium* var. *dulce* essential oil. *Acta hort regiotec* 2023, 26, 14–20
- M. D. Vukić, **J. Branković**, M. S. Ristić, GC, GC/MS analysis, and biological effects of *Citrus aurantium amara* essential oil. *Acta hort regiotec* 2023, 26, 21–27
- **J. Branković**, V. M. Milovanović, Z. D. Petrović, D. Simijonović, V. P. Petrović, Pyrazolone-type compounds (part II): *in vitro* and *in silico* evaluation of antioxidant potential; structure–activity relationship. *RSC Adv.*, 2023, 13, 2884
- J. Brankovic, V. M. Milovanović, D. Simijonović, S. Novaković, Z. D. Petrović, S. S. Trifunović, G. A. Bogdanović, V. P. Petrović, Pyrazolone-type compounds: synthesis and *in silico* assessment of antiviral potential against key proteins of SARS-CoV-2. *RSC Adv.*, 2022, 12, 16054
- **J. Branković**, N. Milivojević, V. Milovanović, D. Simijonović, Z. Petrović, Z. Marković, D. Šeklić, M. Živanović, M. Vukić, V. Petrović, Evaluation of antioxidant and cytotoxic properties of phenolic N-acylhydrazones: Structure-activity relationship, *R. Soc. Open Sci.*, 2022, 9: 211853
- **Jovica, B.**; Marios, G. K.; Irini, D.; Kyriakos, P.; Zorica, D. P.; Petrović, V. P. Antioxidant and Cytotoxic Activities of Selected Salicylidene Imines: Experimental and Computational Study. *Mol. Divers.*, 2022, 26, 3115–3128
- Milovanović V., **Branković J.**, Pirazolski derivati: „zelená“ sinteza i medicinski značaj, *Hemijski pregled*, 62 (2021) 80-85, ISSN: 0440-6826
- Milovanović, V.; Petrović, Z. D.; Novaković, S.; Bogdanović, G. A.; Simijonović, D.; Mladenović, M.; **Branković, J.**; Petrović, V. P. Pyrazole Derivatives of Medically Relevant Phenolic Acids: Insight into Antioxidative and Anti-LOX Activity. *Med. Chem. (Los Angeles)*. 2021, 17 (8), 807–819
- **J. Branković**, V. Milovanović, Z. D. Petrović, V. P. Petrović, Gallic acid Hydrazones: *In silico* inhibition of thioredoxin reductase. *1st International Conference on Chemo and Bioinformatics*, October 26-27, 2021. Kragujevac, Serbia. Book of proceedings (320-323)
- **J. Branković**, V. M. Milovanovic, V. P. Petrović, Cyclooxygenase-2 as *in silico* Target of phenolic hydrazone-type derivatives. *1st International Conference on Chemo and Bioinformatics*, October 26-27, 2021. Kragujevac, Serbia. Book of proceedings (324-327)

- Novaković S.B., Bogdanović G.A., Petrović Z.D., Simijonović D., Milovanović V.M., **Branković J.**, Petrović V.P., Crystal structures of two methoxybenzene- pyrazolone derivatives, *27th Conference of the Serbian Crystallographic Society*, Kragujevac, Serbia, September 16–17, 2021, Abstracts pp. 70–71.
- **Branković J.**, Milovanović V.M., Simijonović D., Petrović V.P., Pyrazolone derivatives: synthesis, antioxidant activity, and binding to S and Mpro proteins of SARS-CoV-2 inferred by molecular docking, *57th Meeting of the Serbian Chemical Society*, Kragujevac, Serbia, June 18–19, 2021, Book of abstracts pp. 79.
- Milovanović V.M., Petrović Z.D., Simijonović D., Petrović V.P., **Branković J.**, Antioxidant activity of chromeno-pyrimidine fused heterocycles obtained in green reaction, *Proceedings of ISER 210th International Conference*, Florence, Italy, 19-20 July 2019, Book of abstracts pp. 15-18.

PROJECTS

- Program for scientific research and artistic projects for young researchers and artists funded by the Center for Scientific Research of SANU and University of Kragujevac and the University of Kragujevac:
- “*In silico* design of potential antiviral pyrazolone-type agents: S and Mpro proteins of virus SARS-CoV-2 as targets” – PyrAnt

AWARDS

- Award from the Serbian Chemical Society for extraordinary success during the studies of chemistry
- Plaque of the city of Jagodina, for exceptional results achieved in natural science competitions during primary school.
- Diploma “Vuk Karadžić” for all excellent marks throughout primary school.

LANGUAGES

- Serbian (mother)
- English
- Romanian

WORK/RESEARCH EXPERIENCE

- organic and bioorganic chemistry
- organic synthesis
- NMR, IR, and UV-Vis methods
- antioxidant activity
- density functional theory (DFT)
- molecular docking

COMPUTER SKILLS

- The Internet in search and use of pertinent information
- Microsoft Office
- ChemOffice;
- Origin
- Gaussian, GaussView
- Multiple molecular docking software

COURSES

- **Coca-Cola Youth Empowered**, 2018
Coca-Cola HBC Serbia, Kragujevac
(Skills development: Professional orientation, successful communication, project management, business planning, and business administration)
- **Summer school “Jagodinski animirani film”**, 2006.

STUDENT ACTIVISM

- member of the Faculty Board, University of Kragujevac, Faculty of Science 2021
- member of the student parliament, University of Kragujevac, Faculty of Science 2021
- student vice-dean, University of Kragujevac, Faculty of Science 2017 – 2019

OTHER INFORMATION

- Professional Societies: Serbian Chemical Society
- Driver license: B category