

JELENA RUPAR

Employment Information:

- 2016 – present Teaching Assistant, Department of Physical Chemistry and Instrumental Methods, University of Belgrade – Faculty of Pharmacy
- 2015 – 2016 Research Assistant, Department of Physical Chemistry and Instrumental Methods, University of Belgrade – Faculty of Pharmacy

Education:

- 2014 – Master's degree in Pharmacy, defended thesis entitled: „*An investigation of electrochemical behavior of quinoxaline and its derivatives using voltammetric methods on carbon electrodes*”, University of Belgrade – Faculty of Pharmacy
- 2009 – Pharmacy Technician, Medical High School, Dulić Dr. Vojislav, Požarevac

Training:

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Academic awards and distinctions:

- 2009 – Award as part of the Annual award for the best students of Integrated Studies at the University of Belgrade – Faculty of Pharmacy

Teaching activities:

- Integrated academic studies, practical exercises– Courses:
 - Physical Chemistry (study programs: Pharmacy and Pharmacy - Medical Biochemistry);
 - Physical Chemistry (for foreign students study program: Pharmacy)
 - Instrumental Methods (study programs: Pharmacy and Pharmacy - Medical Biochemistry);
 - Colloid Chemistry (study programs: Pharmacy and Pharmacy - Medical Biochemistry);
 - Colloid Chemistry (for foreign students study program: Pharmacy)
- Member of 5 Committees for undergraduate theses at University of Belgrade – Faculty of Pharmacy
- Co-mentor of 2 students scientific research papers presented at Student congress of biomedical sciences of Serbia, with international participation

Textbooks:

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Activities within the Faculty:

- Member of the Commission for property inventory of the Department of Physical Chemistry and Instrumental Methods (2019)

Activities within wider Academic Community:

- Member of the Society of Physical Chemists of Serbia

Projects:

- The Program IDEAS, “Utilization of interplay between inflammation and cancer in the development of compounds with anticancer activity”, project manager Dr. Vladimir Dobričić, Assoc. Prof., University of Belgrade – Faculty of Pharmacy, grant number 7739840, since 2022
- Member of the research team of the University of Belgrade – Faculty of Pharmacy, research topic: “Design, synthesis, investigation of physico-chemical and biopharmaceutical properties of pharmacologically active compounds” research group Dr. Vladimir Dobričić, Assoc. Prof., University of Belgrade – Faculty of Pharmacy, contract number :451-03-68/2020-14/200161, since 2020
- Development of molecules with anti-inflammatory and cardioprotective effect: structural modifications, modeling, physicochemical characterization and formulation tests, project manager Prof. Dr. Sote Vladimirov, University of Belgrade – Faculty of Pharmacy, grant number 172041, Ministry of Education, Science and Technological Development Republic of Serbia, 2018 – 2019
- Bilateral Project (Slovenia), “*In vitro* estimation of lipophilicity and gastrointestinal absorption and molecular modeling integrative approach in the development of novel dual DNA gyrase and topoisomerase IV inhibitors”, project manager Dr. Vladimir Dobričić, Assoc. Prof. project number 451-03-01963/2017-09/35, 2018 – 2020

Publications:

1. **Rupar, J.,** Aleksić, M., Dobričić, V., Brborić, J., Čudina O.: [An electrochemical study of 9-chloroacridine redox behavior and its interaction with double-stranded DNA](#). *Bioelectrochemistry*. 2020; 135: 107579.

DOI: 10.1016/j.bioelechem.2020.107579. ISSN: 1567-5394

2. **Rupar, J.**, Dobričić, V., Grahovac, J., Radulović, S., Skok, Ž., Ilaš, J., Aleksić, M., Brborić J., Čudina O.: [Synthesis and evaluation of anticancer activity of new 9-acridinyl amino acid derivatives](#). *RSC Med. Chem.* 2020; 11(3): 378–386.
DOI: 10.1039/C9MD00597H. ISSN: 2632-8682
3. **Rupar, J.**, Aleksić, M., Nikolić, K., Popović Nikolić, M.: [Comparative electrochemical studies of kinetic and thermodynamic parameters of Quinoxaline and Brimonidine redox process](#). *Electrochimica acta.* 2018; 278: 220–231.
DOI: 10.1016/j.electacta.2018.03.114 ISSN: 0013-4686
4. **Rupar J.**, Dobričić V., Aleksić M., Brborić J., Čudina O.: [A review of published data on acridine derivatives with different biological activities](#). Kragujevac Journal of Science 2018, 40: 83-101.
DOI: 10.5937/KgJSci1840083R
5. Aleksić M., **Pantić J.**, Kapetanović V.: [Evaluation of kinetic parameters and redox mechanism of quinoxaline at glassy carbon electrode](#). FACTA UNIVERSITATIS Series: Physics, Chemistry and Technology 2014, 12: 55-63
DOI: 10.2298/FUPCT1401055A
6. Aleksić M., Lijeskić N., **Pantić J.**, Kapetanović V.: [Electrochemical behavior and differential pulse voltammetric determination of ceftazidime, cefuroxime-axetil and ceftriaxone](#). FACTA UNIVERSITATIS Series: Physics, Chemistry and Technology 2013, 11: 55-66
DOI: 10.2298/FUPCT1301055A