

JELENA MITROVIĆ

Employment Information:

- *February 2022 – today* **teaching assistant** at the Department of pharmaceutical technology and cosmetology
- *May 2021 – February 2022* **research associate** at the Department of pharmaceutical technology and cosmetology, with the contribution to the organization of practical courses
- *April 2018 – May 2021* **junior researcher** at the Department of pharmaceutical technology and cosmetology, from 2018 to 2019 researcher at the project TR 34031: *Development of micro- and nanosystems for drugs with anti-inflammatory effect and methods for their characterization*, with the contribution to the organization of practical courses
- *October 2017 – April 2018* **teaching associate** at the Department of pharmaceutical technology and cosmetology

Education:

- *2017 – today* **doctoral studies**, module pharmaceutical technology, Faculty of Pharmacy, University of Belgrade
- *2016 – 2017* **pharmacy internship** at Benu pharmacies and the hospital pharmacy of the Emergency center at Clinical center of Serbia, state exam for pharmacists passed in May 2017
- *2011 – 2016* **integrated academic studies**, course pharmacy, Faculty of Pharmacy, University of Belgrade
- *2007 – 2011* **High school in Čačak**

Training:

- *2019* *Boosting capacities for advanced characterization of nanodispersed drug delivery systems*, Nanobiotechnology laboratory of the EC Joint Research Center, Ispra, Italy
- *2018* Principles of use of animals for scientific purposes

Academic awards and distinctions:

- *2020* Annual award for the doctoral students at the Faculty of Pharmacy, University of Belgrade – 2nd prize
- *2019* Poster Prize Award BioNanoMed 2019 (Graz, Austria) - 3rd prize, issued by Erwin Schrödinger Society for Nanosciences

- 2019 CEEPUS Mobility Grant, for three months at the University of Ljubljana, Ljubljana, Slovenia

Teaching activities:

Involvement in the practical courses for two subjects at the Department of pharmaceutical technology and cosmetology:

- Pharmaceutical technology 1 - compulsory subject, VI semester
- Pharmaceutical technology 2 - compulsory subject, VII semester

Projects:

- 2022 *Neuroimmune aspects of mood, anxiety and cognitive effects of leads/drug candidates acting at GABAA and/or $\sigma 2$ receptors: In vitro/in vivo delineation by nano- and hiPSC-based platforms (NanoCellEmoCog)*, Science Fund of the Republic of Serbia, program IDEAS
- 2022 *Nanoparticle Enabled Medicinal Products: Temptations in the Step-by-Step Characterization (NanoTemptAble)*, Nanobiotechnology laboratory of the EC Joint Research Center, Ispra, Italy
- 2021 – today H2020 IMI2-2017-13-10 - *Improving the preclinical prediction of adverse effects of pharmaceuticals on the nervous system (NeuroDeRisk)*
- 2020 – 2021 *Innovative nanoformulations for brain/skin delivery*, bilateral project with the University of Tübingen Department of Pharmaceutical Technology, Germany
- 2019 *EC Joint Research Center Training and Capacity Building Project Boosting Capacities for Advanced Characterization of Nano-Dispersed Drug-Delivery Systems (NanoDiction, 2019)*, Ispra, Italy
- 2018 – 2019 *Development of micro- and nanosystems for drugs with anti-inflammatory effect and methods for their characterization (TR34031)*, national project, Ministry of Education, Science and Technological Development

Publications:

- Mitrović JR, Divović-Matović B, Knutson DE, Đoković JB, Kremenović A, Dobričić VD, Randjelović DV, Pantelić I, Cook JM, Savić, MM, Savić SD. Overcoming the low oral bioavailability of deuterated pyrazoloquinolinone ligand dk-i-60-3 by nanonization: A knowledge-based approach. *Pharmaceutics* 2021; 13(8): 1188.

- Đoković JB, Savić SM, **Mitrović JR**, Nikolic I, Marković BD, Randjelović DV, Antic-Stankovic J, Božić D, Cekić ND, Stevanović V, Batinić, B, Arandjelović J, Savić MM, Savić SD. Curcumin Loaded PEGylated Nanoemulsions Designed for Maintained Antioxidant Effects and Improved Bioavailability: A Pilot Study on Rats. *Int J Mol Sci.* 2021; 22(15): 7991.
- **Mitrović JR**, Divović B, Knutson DE, Đoković JB, Vulić PJ, Randjelović DV, Dobričić VD, Čalić BR, Cook JM, Savić MM, Savić SD. Nanocrystal dispersion of DK-I-56-1, a poorly soluble pyrazoloquinolinone positive modulator of $\alpha 6$ GABAA receptors: Formulation approach toward improved in vivo performance. *Eur J Pharm Sci.* 2020; 152:105432.