

Ana Micov, PhD

Employment Information:

Department of Pharmacology, Faculty of Pharmacy – University of Belgrade

- 2016. **Assistant Professor**
- 2014. **Teaching Assistant (re-election)**
- 2011. **Teaching Assistant**
- 2008. **Teaching Associate**

Education:

- 2019. **Pharmacy Specialist**
Academic specialization *Pharmacotherapy in pharmaceutical practice*,
University of Belgrade – Faculty of Pharmacy
- 2013. **Doctor of Medical Sciences – pharmacy**
Defended doctoral dissertation: *Antinociceptive effect, mechanism of action and interaction of levetiracetam in models of somatic, visceral and neuropathic pain*,
Department of Pharmacology, University of Belgrad – Faculty of Pharmacy;
mentor: Prof. Dr. Radica Stepanović-Petrović.
- 2008. **Passed professional exam for Graduate Pharmacists**
Ministry of Health of the Republic of Serbia
- 2007. **Graduate Pharmacist**
University of Belgrade – Faculty of Pharmacy
- 1999. **Finished elementary and high school in Bosilegrad**

Academic awards and distinctions:

- 2014. Award of the Belgrade Chamber of Commerce in the category of the best doctoral dissertation for the 2013/2014 school year
- 2009. Annual award of the Faculty of Pharmacy, University of Belgrade for the best scientific research work in postgraduate studies

Teaching activities:

Integrated academic studies

- Preparation and implementation of classes in the following subjects: Pharmacology 1, Pharmacology 2, Pharmacotherapy, Pharmacotherapy in Pediatrics, Student Professional Practice
- Final papers (mentor and member of the commission for preparation and defense of several final papers)

Specialist health studies in pharmacotherapy

- Preparation and implementation of classes in the following subjects: Pharmacology, Pharmacotherapy

Specialist health studies in pharmaceutical technology

- Preparation and implementation of classes in the following subject: Selected Chapters of Pharmacotherapy

Specialist academic studies - Pharmacotherapy in Pharmaceutical Practice

- Preparation and implementation of classes in the following subjects: Pharmacotherapy 1, Pharmacotherapy 2, Pharmacotherapy 3

Doctoral academic studies

- Preparation and implementation of classes in the following subjects: Pharmacology of Pain, Critical evaluation of the literature, Preparation of project documentation
- Doctoral dissertations: Member of the commission for the defense of three doctoral dissertations in the field of pharmacology and pharmaceutical technology at the University of Belgrade – Faculty of Pharmacy. Appointed mentor of one doctoral dissertation at the Faculty of Pharmacy, University of Belgrade (*in the preparation*).

Studentski naučno-istraživački radovi

- Mentor or co-mentor of several student research papers; co-mentor on the awarded (I place) student research paper at the XI Mini-Congress of Students of the Faculty of Pharmacy (Belgrade, 2018); member of the expert commission of the VIII and XI Mini-Congress of Students of the Faculty of Pharmacy (Belgrade, 2015 and 2018).

Textbooks:

- Co-author of the basic textbook *Pharmacotherapy for pharmacists* (Faculty of Pharmacy, University of Belgrade, 1st edition: 2011, 2014; 2nd edition: 2016, 2017, 2018, 2021)
- Co-author of a professional publication of national importance *Pharmacotherapeutic Guide* (7th Edition: 2022, Medicines and Medical Devices Agency of Serbia)

Activities within the Faculty:

- 2019–today Head of the specialist academic studies *Pharmacotherapy in pharmaceutical practice*
- 2019–today Member of the Commission for the Preparation and Implementation of the Knowledge-Retention Test
- 2019–today Member of the Commission for Postgraduate Teaching – Specialist Academic Studies
- 2019–today Member of the Commission for Monitoring and Improving the Quality of Teaching – Postgraduate Studies

- 2019–today Member of the Commission for Student Professional Practice
- 2010–today Member of the Council of the Years II, III, IV and V of the University of Belgrade – Faculty of Pharmacy

Activities within wider Academic Community:

- Lecturer/moderator at national continuing education courses/professional gatherings organized by the Association of Pharmaceutical Associations of Serbia (SFUS), Serbian Pharmacological Society (SFD), National Association of Pharmacy Students – Serbia (NAPSer) and Student Organization of the Faculty of Pharmacy (BPSA)
- Member of the *Serbian Pharmacological Society*, *Society for Neuroscience of Serbia* and *International Association for the Study of Pain (IASP)*

Projects:

- 2022–2024 Researcher on the Science Fund of the Republic of Serbia project The IDEAS Program: Multimodal control of chronic pain and comorbidities with atypical analgesics - “two birds with one stone”, Acronym: **Fight_PainAndComorb**
- 2019–today Researcher within the institutional scientific research work at the Faculty of Pharmacy by the Ministry of Education, Science and Technological Development of the Republic of Serbia
- 2011–2019 Researcher on *Investigation of the mechanism of action, interactions and toxic effects of adjuvant analgesics*, basic research project, field of Medicine, number 175045
- 2009–2010 Researcher on *Investigation of the mechanism of action, interactions and toxic effects of analgesics and vasoactive substances*, basic research project, field of Medicine, number 145030

Publications:

1. Djuretić J, Dimitrijević M, Stojanović M, Stevuljević JK, Hamblin MR, **Micov A**, Stepanović-Petrović R, Laposavić G. Infrared radiation from cage bedding moderates rat inflammatory and autoimmune responses in collagen-induced arthritis. *Sci Rep*. 2021 Feb 3;11(1):2882. doi: 10.1038/s41598-021-81999-7.
2. **Micov AM**, Tomić MA, Todorović MB, Vuković MJ, Pecikoza UB, Jasnic NI, Djordjevic JD, Stepanović-Petrović RM. Vortioxetine reduces pain hypersensitivity and associated depression-like behavior in mice with oxaliplatin-induced neuropathy. *Prog Neuropsychopharmacol Biol Psychiatry*. 2020 Dec 20;103:109975. doi: 10.1016/j.pnpbp.2020.109975.
3. Tomić M, Pecikoza U, **Micov A**, Vučković S, Stepanović-Petrović R. Antiepileptic drugs as analgesics/adjuvants in inflammatory pain: current preclinical evidence. *Pharmacol Ther*. 2018 Dec;192:42-64. doi: 10.1016/j.pharmthera.2018.06.002.

4. Janićijević J, Milić J, Čalija B, **Micov A**, Stepanović-Petrović R, Tomić M, Daković A, Dobričić V, Nedić Vasiljević B, Krajišnik D. Potentiation of the ibuprofen antihyperalgesic effect using inorganically functionalized diatomite. *J Mater Chem B*. 2018 Sep 28;6(36):5812-5822. doi: 10.1039/c8tb01376d.
5. Djekic L, Martinovic M, Stepanović-Petrović R, **Micov A**, Tomić M, Primorac M. Formulation of hydrogel-thickened nonionic microemulsions with enhanced percutaneous delivery of ibuprofen assessed in vivo in rats. *Eur J Pharm Sci*. 2016 Sep 20;92:255-65. doi: 10.1016/j.ejps.2016.05.005.
6. **Micov A**, Tomić M, Pecikoza U, Ugrešić N, Stepanović-Petrović R. Levetiracetam synergises with common analgesics in producing antinociception in a mouse model of painful diabetic neuropathy. *Pharmacol Res*. 2015 Jul;97:131-42. doi: 10.1016/j.phrs.2015.04.014.
7. Tomić M, Popović V, Petrović S, Stepanović-Petrović R, **Micov A**, Pavlović-Drobac M, Couladis M. Antihyperalgesic and antiedematous activities of bisabolol-oxides-rich matricaria oil in a rat model of inflammation. *Phytother Res*. 2014 May;28(5):759-66. doi: 10.1002/ptr.5057.
8. Stepanovic-Petrovic RM, **Micov AM**, Tomic MA, Kovacevic JM, Boškovic BD. Antihyperalgesic/antinociceptive effects of ceftriaxone and its synergistic interactions with different analgesics in inflammatory pain in rodents. *Anesthesiology*. 2014 Mar;120(3):737-50. doi: 10.1097/ALN.0000435833.33515.ba.
9. Tomić MA, **Micov AM**, Stepanović-Petrović RM. Levetiracetam interacts synergistically with nonsteroidal analgesics and caffeine to produce antihyperalgesia in rats. *J Pain*. 2013 Nov;14(11):1371-82. doi: 10.1016/j.jpain.2013.06.003.
10. **Micov A**, Tomić M, Popović B, Stepanović-Petrović R. The antihyperalgesic effect of levetiracetam in an inflammatory model of pain in rats: mechanism of action. *Br J Pharmacol*. 2010 Sep;161(2):384-92. doi: 10.1111/j.1476-5381.2010.00877.x.