

## RADICA STEPANOVIĆ-PETROVIĆ

### Employment Information:

- 2007: **Professor**, Department of Pharmacology, Faculty of Pharmacy, University of Belgrade
- 2002: **Associate Professor**, Department of Pharmacology, Faculty of Pharmacy, University of Belgrade
- 1996: **Assistant Professor**, Department of Pharmacology, Faculty of Pharmacy, University of Belgrade
- 1990: **Teaching Assistant**, Department of Pharmacology, Faculty of Pharmacy, University of Belgrade
- 1985: **Junior Teaching Assistant**, Department of Pharmacology, Faculty of Pharmacy, University of Belgrade

### Education:

- 2009: **Pharmacotherapy specialist**
- Specialist thesis: “*Therapeutic application of mitoxantrone*”, Department of Pharmacology, Faculty of Pharmacy, University of Belgrade, Mentor: Prof. Nenad Ugrešić, PhD
- 1995: **PhD**  
PhD thesis: “*The influence of potential antidotes on delayed neurotoxic effects of organophosphates*”, Department of Pharmacology, Clinical Pharmacology and Toxicology, School of Medicine, University of Belgrade, Mentor: Prof. Bogdan Bošković, PhD, Co-mentor: Prof. Draganja Anđelković, PhD
- 1990: **MSc**  
Master thesis: “*The influence of histamine on endothelium and smooth muscle cells of peripheral blood vessels from rats, guinea pigs and rabbits*“, Department of Pharmacology, Faculty of Pharmacy, University of Belgrade, Mentor: Prof. Milovan Krstić, PhD
- 1985: **BPharm**  
Faculty of Pharmacy, University of Belgrade
- 1977: **Primary and secondary school in Belgrade**

### Academic awards and distinctions:

- 2008: Second prize in the category *Best technological innovation in the field of medicine and genetics*, awarded by the Ministry of Science and Technological development of Serbia
- 2001: *Annual prize for the best PhD thesis* awarded by Galenika
- 1985: *Prize for the best grade point average achieved during studies* awarded by the University of Belgrade

### Teaching activities:

- Integrated academic studies  
Subjects (Courses):
  - ❖ Pharmacology 1
  - ❖ Pharmacology 2
  - ❖ Pharmacology 3
  - ❖ Pharmacotherapy
- Specialised professional studies in pharmacotherapy  
Subjects (Courses):
  - ❖ Pharmacology
  - ❖ Pharmacotherapy
- Specialised academic studies in pharmacotherapy in pharmaceutical practice  
Subjects (Courses):
  - ❖ Pharmacotherapy 1
  - ❖ Pharmacotherapy 2
  - ❖ Pharmacotherapy 3
- Doctoral academic studies in pharmacology  
Subjects (Courses):
  - ❖ Mechanisms of Drug Action
  - ❖ Pharmacology of Nervous System
  - ❖ Pharmacology of the Cardiovascular System
  - ❖ Methodology of Nervous System Pharmacology
  - ❖ Methodology of the Cardiovascular Pharmacology
  - ❖ Inflammation and Anti-inflammatory Agents
  - ❖ Seminar 1
  - ❖ Seminar 2
  - ❖ Seminar 3
  - ❖ Seminar 4
- Doctoral academic studies in pharmacokinetics and clinical pharmacy  
Subjects (Courses):
  - ❖ Selected Chapters of Pharmacology
- Student graduate and specialist theses – Mentor of numerous graduate and specialist theses and committee member in the process of thesis defense
- Master theses – Committee member for one master thesis defense at the School of Medicine, University of Belgrade
- PhD theses - Mentor of one completed PhD thesis in pharmacology at the Faculty of Pharmacy (candidate name: assist. Ana Micov, PhD). Committee member for three PhD theses defenses (in the field of immunochemistry, pharmacology and pharmacognosy) at the Faculty of Pharmacy and the School of Medicine, University of Belgrade
- Student scientific-research work - Mentor or co-mentor of 10 student scientific-research works (abstracts)

### **Textbooks:**

- Co-author of a Serbian version of pharmacology textbook - *Pharmacology*, Rang HP, Dale MM, Ritter JM, Moore PK (5<sup>th</sup> edition, 2003)
- Co-author of a professional publication of national importance – *Pharmacotherapy Guide* (1<sup>st</sup>, 2<sup>nd</sup>, 3<sup>rd</sup> and 4<sup>th</sup> edition, 2004, 2005, 2006, 2008) which is published by the Medicines and Medical devices Agency of Serbia
- Co-author of the *Handbook of Pharmacology* (1<sup>st</sup> and 2<sup>nd</sup> edition, 2009, 2011) which is published by the Faculty of Pharmacy, University of Belgrade
- Editor and co-author of a textbook in pharmacotherapy – *Pharmacotherapy for pharmacists* (1<sup>st</sup> and 2<sup>nd</sup> edition, 2011, 2014) which is published by the Faculty of Pharmacy, University of Belgrade

### **Activities within the Faculty:**

- from 2012: Member of the University of Belgrade Council for medical sciences
- from 2012: Member of the Faculty of Pharmacy Council
- from 2007: Member of the Committee for specialised studies
- from 2008: Member of the Ethics Committee for the use of experimental animals
- from 2007: Member of the Faculty of Pharmacy Program Council
- 2004: Member of a workgroup appointed for the making of the Syllabus (for the Faculty of Pharmacy). Also, member of a workgroup appointed for the making of documents related to continued education of licenced pharmacists
- Head of the specialised professional studies program in pharmacotherapy

### **Activities within wider Academic Community:**

- Expert of the Medicines and Medical devices Agency of Serbia, as well as the Agency for medicines and medical devices of Montenegro.
- Courses of continued education for licenced pharmacists:
  - Antibiotics – mechanism of action and clinical relevance of resistance patterns
  - Obesity – a challenge for contemporary pharmacy
  - Dyslipidemia – what pharmacists can accomplish
- Symposiums of the Pharmaceutical Association of Serbia:
  - Analgesics and sedatives in pediatric practice (59<sup>th</sup> Symposium; Zlatibor, 2012)
  - Drug influence on appetite and body weight (57<sup>th</sup> Symposium; Vrnjačka Banja, 2011)
  - Pharmacotherapy of asthma and chronic obstructive pulmonary disease (56<sup>th</sup> Symposium; Kopaonik, 2011)
  - Oral contraceptives and hormon substitution therapy (55<sup>th</sup> Symposium; Kopaonik, 2010)
  - Cardiovascular diseases in the elderly (54<sup>th</sup> Symposium, Belgrade, 2009)

- Coronary vasodilators (52<sup>nd</sup> Symposium; Novi Sad, 2008)
- Antidepressants pharmacology (49<sup>th</sup> Symposium; Kopaonik, 2007)
- Drugs used in therapy of peptic ulcer, gastroesophageal reflux disease and inflammatory bowel disease (44<sup>th</sup> Symposium; Kopaonik 2004)
- Congresses of the Pharmaceutical Association of Serbia
  - Resistance to clopidogrel (5<sup>th</sup> Congress of Serbian Pharmacists, Belgrade, 2010)
  - Opioid and alternative analgesics (4<sup>th</sup> Congress of Serbian Pharmacists, Belgrade, 2006)
- Other symposiums:
  - Oral hypoglycemic drugs (9<sup>th</sup> Symposium of masters of pharmacy and biochemistry of Republika Srpska; Banja Vrućica, 2012)
  - Pharmacology of antiepileptic drugs (IX Symposium of pharmacists and biochemists of Republika Srpska; Teslić, 2007)
- Membership in national/international professional organisations:
  - Member of the Committee for the rational use of drugs (Serbian Ministry of Health). Member of the Pharmaceutical Association of Serbia, Serbian Association of Pharmacologists, Serbian Neuroscience Society and the International Association for the Study of Pain (IASP). Deputy editor of the national journal Arhiv za farmaciju.
- Reviewer in national journals: Arhiv za farmaciju and Vojnosanitetski pregled
- Reviewer in international journals:
  - European Journal of Pain, Neuroscience Letters, Fundamental and Clinical Pharmacology, Canadian Journal of Physiology and Pharmacology

### **Projects:**

- Involved in scientific projects funded by the Ministry of Education, Science and Technological Development of Serbia:
  - **2011 – 2014**: “Examination of the mechanisms of action, interactions and toxic effects of adjuvant analgesics“, basic research project in the field of medicine, Project number: 175045
  - **2006 – 2010**: “Examination of mechanisms of action, interactions and toxic effects of analgesics and vasoactive substances“, basic research project in the field of medicine, Project number: 145030
  - **1991 – 2012**: “Mechanism of action of biologically active substances that modify the tone of blood vessels”
  - **1986 – 1990**: “Chemical and pharmacokinetic investigation of medicines”

### Most important publications:

1. Stepanović-Petrović RM, Micov AM, Tomić MA, Kovačević JM, Bošković BD. Antihyperalgesic/Antinociceptive Effects of Ceftriaxone and Its Synergistic Interactions with Different Analgesics in Inflammatory Pain in Rodents. *Anesthesiology* 2014;120:737-50.
2. Tomić MA, Micov AM, Stepanović-Petrović RM. Levetiracetam Interacts Synergistically With Nonsteroidal Analgesics and Caffeine to Produce Antihyperalgesia in Rats. *Journal of Pain* 2013;14:1371-82.
3. Stepanović-Petrović RM, Micov AM, Tomić MA, Ugrešić ND. The local peripheral antihyperalgesic effect of levetiracetam and its mechanism of action in an inflammatory pain model. *Anesthesia and Analgesia* 2012;115:1457-66.
4. Stepanović-Petrović RM, Tomić MA, Vučković SM, Poznanović G, Ugrešić ND, Prostran MŠ, Bošković B. Pharmacological interaction between oxcarbazepine and two COX inhibitors in a rat model of inflammatory hyperalgesia. *Pharmacology Biochemistry and Behavior* 2011;97:11-8.
5. 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. *British Journal of Pharmacology* 2010;161:384-92.
6. Stepanović-Petrović RM, Tomić MA, Vučković SM, Paranos S, Ugrešić ND, Prostran MS, Milovanović S, Bošković B. The antinociceptive effects of anticonvulsants in a mouse visceral pain model. *Anesthesia and Analgesia* 2008;106:1897-903.
7. Stepanović-Petrović RM, Tomić MA, Vučković SM, Kocev N, Ugrešić ND, Prostran MS, Bosković B. GABAergic mechanisms are involved in the antihyperalgesic effects of carbamazepine and oxcarbazepine in a rat model of inflammatory hyperalgesia. *Pharmacology* 2008;82:53-8.
8. Tomić MA, Vučković SM, Stepanović-Petrović RM, Ugrešić N, Prostran MS, Bošković B. The anti-hyperalgesic effects of carbamazepine and oxcarbazepine are attenuated by treatment with adenosine receptor antagonists. *Pain* 2004;111:253-60.
9. Krstić MK, Stepanović R, Ilić K, Krstić SK. Endothelium-independent contractile and relaxant responses to histamine in the rabbit aorta and common carotid, mesenteric, renal, and femoral arteries. *General Pharmacology = Vascular Pharmacology* 1996;27:529-33.

10. Jokanović M, Maksimović M, Stepanović RM. Interaction of phosphamidon with neuropathy target esterase and acetylcholinesterase of hen brain. *Archives of Toxicology* 1995;69:425-8.