

## **IVANA PANTELIĆ (maiden name Jakšić)**

### **Employment Information:**

- 2016: Assistant Professor, Department of Pharmaceutical Technology and Cosmetology, University of Belgrade – Faculty of Pharmacy
- 2009: Teaching assistant, Department of Pharmaceutical Technology and Cosmetology, University of Belgrade – Faculty of Pharmacy
- 2007: Research assistant, Department of Pharmaceutical Technology and Cosmetology, University of Belgrade – Faculty of Pharmacy
- 2007: Internship at Pharmacy “Beograd”; license obtained in July 2008.

### **Education:**

- 2018: Specialist in Cosmetology
- 2013: PhD in Medical Sciences – Pharmacy; dissertation entitled „Dermal bioavailability of anti-inflammatory drugs from sugar emulsifier stabilized bases: comparative application of *in vitro/in vivo* characterization methods”
- 2007: Graduated from the Faculty of Pharmacy, University of Belgrade
- 2001: III Belgrade high school (certificate „Vuk Karadžić”)
- 1997: Experimental elementary school for French language „Vladislav Ribnikar” in Belgrade (certificate „Vuk Karadžić”)

### **Training:**

- 2019: TAIEX workshops: Workshop on Safety Assessment of Cosmetics and Workshop on Borderline Issues in the Context of Cosmetics
- 2013: Seminar „Fundamental and Applications of Controlled Release and Drug Delivery” (program coordinator prof. Nicholas A. Peppas)
- 2012: „Advanced Dissolution Seminar” organized by Tempus PQPharm project
- 2009, 2011, 2012, 2017: Research stays at the Institut für Pharmazeutische Technologie Eberhard Karls Universität Tübingen, Germany
- 2006: French language certificate “*Course de Langue et Civilisation Française de la Sorbonne*”, University Sorbonne, Paris
- 1998-2000: English language certificates: *Cambridge Certificate of Proficiency in English*, *Cambridge Certificate in Advanced English* and *Cambridge First Certificate in English*.

### **Academic awards and distinctions:**

- 2009: Scholarship of the German Academic Exchange Service (DAAD) entitled „Sonderprogramm Serbien – Forschungspraktika in Deutschland für Studierende und Graduierte aus Serbien”, which has enabled a research stay at the Institute for Pharmaceutical Technology of the Eberhard Karls University Tübingen, Germany.

### Teaching activities:

- Involved in courses Pharmaceutical Technology 1, Cosmetology, Fundamentals of Pharmaceutical Biotechnology, and Drug Dosage Forms for Paediatric Population (integrated academic studies), specialist academic studies in Cosmetology, doctoral studies in Pharmacy (modules Pharmaceutical Technology and Cosmetology)
- Member of the Commissions (or mentor) for the defense of more than 70 graduate papers, 15 specialist thesis and 3 PhD dissertations
- Work with students during their experimental projects as a part of the *Center for students scientific research* activities.

### Textbooks:

Ivana is the co-author of the following textbooks used within integrated academic studies in Pharmacy:

- Vasiljević D, Đekić Lj, Krajišnik D, **Pantelić I**. Priručnik za praktičnu nastavu iz farmaceutske tehnologije 1, Univerzitet u Beogradu-Farmaceutski fakultet, 2019. ISBN 978-86-6273-060-2
- Lukić M, **Pantelić I**, Ilić T, Nikolić I. Praktikum iz kozmetologije, Univerzitet u Beogradu-Farmaceutski fakultet, 2021. ISBN 978-86-6273-077-0

### Activities within the Faculty:

- 2021: mentor of the „*III Compounding Event – Skills in preparing pharmaceutical products*” organized by the student organization BPSA on 28.11.2021. at the Faculty of Pharmacy, entitled „Acne as inevitable problem of today: How to treat them? Let’s find the right ally!“
- 2020: member of the Commission of student enrolment to the 1st year of integrated academic studies at the University of Belgrade-Faculty of Pharmacy (for the academic year 2020/2021).
- 2019: member of the Organization board of the national symposium with international participation at the University of Belgrade-Faculty of Pharmacy, celebrating 80<sup>th</sup> anniversary of studies in Pharmacy, entitled *Pharmaceutical*

*products and services: competences based on evidence and innovation of knowledge* (19.10.2019.); accreditation B-73/19; decision 153-02-1413/2019-01.

- 2019: Within the manifestation „Open doors of the Faculty of Pharmacy“, coordinated the workshop entitled „*Micro- and nanocarriers in pharmacy and cosmetology: from creams to nanoparticles*“ (20.10.2019.).
- From 2018: member of the Working group for research and international cooperation.
- 2016: member of the Commission for the Annual award for the best scientific papers of postgraduate students.
- From 2016: member of the Council of courses realised during the 3<sup>rd</sup> year of the studies in Pharmacy.

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

- Together with prof. Snežana Savić, acts as the guest editor of the special issue of the journal *Pharmaceutics*, entitled „Skin Performance of Drug Delivery Systems: Scope, Challenges and Future Research and Regulatory Prospects“ (journal's impact factor for 2020 = 6,321; category M21)
- Reviewer for the journals: *Materials*, *Polymers*, *Pharmaceutics*, *Journal of Pharmaceutical Sciences*, *Acta Biomaterialia*, *Current Drug Delivery*, *Journal of Cosmetic Dermatology*, *Current Traditional Medicine*, *Hemijska Industrija*, *Arhiv za farmaciju*, *Current Computer-Aided Drug Design*, *Current Drug Targets*, *Nanoscience&Nanotechnology-Asia*, *Drug Development Industrial Pharmacy*, *Advanced Technologies*, *International Journal of Nanomedicine*.
- Held 8 lectures and 5 workshops in various accredited courses and professional meetings.
- 2018: *Pro bono* lecture for the Serbian Chamber of Commerce on Product information files of cosmetic products.

#### **Projects:**

- 2022 - 2024: Project from the Ideas call of the Science fund, Republic of Serbia: 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 (project leader Miroslav Savić)
- 2020 – 2021: Proof of Concept project funded by the Innovation Fund (Republic of Serbia): Natural cosmetic nano-serum with Red Raspberry Seed Oil of Serbian origin for antioxidant treatment of skin photoaging (leader Snežana Savić)
- 2020 – 2021: Bilateral project with Germany: Innovative nanoformulations for brain/skin delivery of patented vs. reference active substances: novel formulation approaches and tailored in vitro/in vivo methods for delivery assessment (Snežana Savić/Dominique Lunter)

- 2020: EC/JRC Call 2020- 1-TCB- NanoBiotech: Access to JRC Physical Research Infrastructures Training and Capacity Building for E&I countries: Advanced In Chemico/In Vitro Training and Capacity Building for Safe Cosmetic Nanomaterials and Nanostructured Products (NanoCosMetrics) (Snežana Savić)
- 2017 – present: MC member substitute of COST Action 16321 European Network of Vaccine Adjuvants
- 2017 – 2018: Bilateral project with Germany: Biosurfactants and biopolysaccharides/film-forming polymers as cosmetic raw materials and prospective pharmaceutical excipients: formulation of colloidal and film-forming delivery systems (Snežana Savić/Dominique Lunter)
- 2015 – 2016: Bilateral project with Germany: Formulation of micro-, nano- and surfactant-free emulsion systems for poorly soluble drugs: development and optimization of ex vivo and in vivo evaluation methods (Snežana Savić/Rolf Daniels)
- 2011 – 2019: project of technological development entitled „Development of micro- and nanosystems as carriers for anti-inflammatory drugs and methods for their characterization“ (TR-34031), Ministry of education, science and technological development of the Republic of Serbia (Snežana Savić)
- 2011 – 2019: project of fundamental research entitled „Development of molecules with anti-inflammatory and cardioprotective action: structural modification, modeling, physicochemical characterization and formulation investigations“ (OI-172041), Ministry of education, science and technological development of the Republic of Serbia (Sote Vladimirov, then Zorica Vujić)
- 2010 – 2011: project of technological development entitled: „Development and characterization of colloid carriers for anti-inflammatory drugs“ (TR-19058), Ministry of education and science of the Republic of Serbia.

### **Selected Publications:**

- Ilić T, Pantelić I, Savić S. The implications of regulatory framework for topical semisolid drug products: from critical quality and performance attributes towards establishing bioequivalence. *Pharmaceutics* 2021, 13(5), 710; <https://doi.org/10.3390/pharmaceutics13050710>.
- Lemoine C, Thakur A, Krajišnik D, Guyon R, Longet S, Razim A, Gorska S, Pantelić I, Ilić T, Nikolić I, Lavelle E, Gamian A, Savić S, Milicic A. Technological approaches for improving vaccination compliance and coverage. *Vaccines* 2020; 8 (2): 304. doi: 10.3390/vaccines8020304.
- Pantelić I, Lukić M, Gojgić-Cvijović G, Jakovljević D, Nikolić I, Lunter DJ, Daniels R, Savić S. *Bacillus licheniformis* levan as a functional biomaterial in topical drug dosage forms: from basic colloidal considerations to actual

- pharmaceutical application. *European Journal of Pharmaceutical Sciences* 2020; 142: 105109; <https://doi.org/10.1016/j.ejps.2019.105109>
- Nikolic I, Mitsou E, Pantelic I, Randjelovic D, Markovic M, Papadimitriou V, Xenakis A, Lunter DJ, Zugic A, Savic S. Microstructure and biopharmaceutical performances of curcumin-loaded low-energy nanoemulsions containing eucalyptol and pinene: terpenes' role overcome penetration enhancement effect? *European Journal of Pharmaceutical Sciences* 2020; 142: 105135; <https://doi.org/10.1016/j.ejps.2019.105135>
  - Schmidberger M, Nikolic I, Pantelic I, Lunter D. Optimization of Rheological Behaviour and Skin Penetration of Thermogelling Emulsions with Enhanced Substantivity for Potential Application in Treatment of Chronic Skin Diseases. *Pharmaceutics*. 2019; 11 (8): pii: E361. doi: 10.3390/pharmaceutics11080361.
  - Pantelić I, Savić S, Ilić T, Todosijević M, Savić M, Savić S. From physicochemically stable nanocarriers to targeted delivery: In vivo pharmacokinetic, pharmacodynamic and biodistribution studies. In: Grumezescu A. (ed). *Nanoscale Fabrication, Optimization, Scale-up and Biological Aspects of Pharmaceutical Nanotechnology*. Oxford: Elsevier/William Andrew, 2018; 301-333. ISBN: 978-0-12-813629-4; DOI: <http://dx.doi.org/10.1016/B978-0-12-813629-4.00008-5>.
  - Ilić T, Pantelić I, Lunter D, Đorđević S, Marković B, Ranković D, Daniels R, Savić S. Critical quality attributes, in vitro release and correlated in vitro skin permeation - in vivo tape stripping collective data for demonstrating therapeutic (non)equivalence of topical semisolid: a case study of "ready-to-use" vehicles. *International Journal of Pharmaceutics* 2017; 528: 253-67; <http://dx.doi.org/10.1016/j.ijpharm.2017.06.018>
  - Isailović T, Đorđević S, Marković B, Randelović D, Cekić N, Lukić M, Pantelić I, Daniels R, Savić S. Biocompatible Nanoemulsions for Improved Aceclofenac Skin Delivery: Formulation Approach Using Combined Mixture-Process Experimental Design. *Journal of Pharmaceutical Sciences* 2016; 105 (1): 308-23; DOI: 10.1002/jps.24706
  - Pantelic I, Milic J, Vuleta G, Dragicevic N, Savic S. Natural emulsifiers of the alkyl polyglucoside type and their influence on the permeation of drugs. In: N. Dragicevic and H. I. Maibach, eds. *Percutaneous Penetration Enhancers Chemical Methods in Penetration Enhancement: Modification of the Stratum Corneum*. Springer-Verlag, Berlin Heidelberg. 2015. p. 231-250. ISBN: 978-3-662-47038-1; doi: 10.1007/978-3-662-47039-8\_14
  - Pantelic I (editor). *Alkyl Polyglucosides: From natural-origin surfactants to prospective delivery systems*. Cambridge: Woodhead Publishing (an imprint of Elsevier), 2014, 1-187