

SILVANA PETROVIĆ

Employment Information:

- **January 19th 2010 – present. Full Professor**
Department of Pharmacognosy, University of Belgrade - Faculty of Pharmacy
- **2004 – 2010. Associate Professor**
Institute of Pharmacognosy, University of Belgrade - Faculty of Pharmacy
- **1999 – 2004. Assistant Professor**
Institute of Pharmacognosy, University of Belgrade - Faculty of Pharmacy
- **1996 – 1999. Teaching Assistant**
Institute of Pharmacognosy, University of Belgrade - Faculty of Pharmacy
- **1993 – 1996. Junior Teaching Assistant**
Institute of Pharmacognosy, University of Belgrade - Faculty of Pharmacy
- **1992 – 1993. Teaching Associate**
Institute of Pharmacognosy, University of Belgrade - Faculty of Pharmacy

Education:

- **1999. PhD in Pharmaceutical Sciences (Dr. Sc. Pharm.)**
Scientific area: Pharmacognosy. University of Belgrade - Faculty of Pharmacy.
PhD thesis: "Comparative pharmacognostic investigation on *Hieracium* L. species, *Asteraceae*."
- **1995. MSc in Pharmaceutical Sciences (Mr. Sc. Pharm.) (10/10)**
Scientific area: Pharmacognosy. University of Belgrade - Faculty of Pharmacy.
MSc thesis: "Pharmacognostic investigation on *Hieracium plumulosum* A. Kerner, *Asteraceae*."
- **1994.** License exam for pharmacists, Ministry of Health, Republic of Serbia
- **1992. Dipl. Pharm. (MPharm) (9.81/10).**
University of Belgrade - Faculty of Pharmacy.
Graduate thesis: "Lactones of hawkweed, *Hieracium waldsteinii* Tausch, *Asteraceae*."

Training:

- 1997 (1.5–30.11.). Institute of Pharmaceutical Biology, Albert Ludwig University of Freiburg (Germany).

Academic awards and distinctions:

- 2018. Annual prize for scientific research awarded by the Faculty of Pharmacy, University of Belgrade.
- 1.5-31.10.1997. Scholarship of the German Academic Exchange Service, Deutscher Akademischer Austauschdienst (DAAD).
- 1992. Prize for the best grade point average achieved during studies awarded by the Faculty of Pharmacy, University of Belgrade.
- 1991-1993. Scholarship of the Republic Foundation for Development of Scientific and Artistic Youth of Serbia.
- 1989-1990. Scholarship of the Swiss pharmaceutical company Hoffmann-La Roche.

Teaching activities:

- Integrated academic studies (IAS): mandatory courses (subjects) *Pharmacognosy*; *Phytotherapy*; elective course *Analysis of herbal drugs and preparations*.
- Doctoral academic studies (DAS) of pharmaceutical sciences: elective courses *Selected chapters of pharmacognosy*; *Plant isolates: preparation, characterization and potentials of use*; *Valorization of ethnomedicinal use of plants*.
- Specialist academic studies (SAS) in Pharmacotherapy in pharmaceutical practice: mandatory courses *Phytotherapy 1*; *Phytotherapy 2*.
- Specialist academic studies (SAS) in Cosmetology: elective course *Plant extracts in cosmetic products*.
- 2000-2022. Integrated academic studies (IAS) at the Department of Pharmacy / Pharmacognosy, Faculty of Medicine, University of Banja Luka (Republika Srpska, Bosnia and Herzegovina): mandatory courses *Pharmacognosy 1*, *Pharmacognosy 2*, elective course *Phytotherapy*.
2010-2022. Head of the Department of Pharmacognosy, Faculty of Medicine, University of Banja Luka.
- 2009-2021. Doctoral academic studies (DAS) at the Faculty of Biology, University of Belgrade - study program Biology: elective course *Pharmacological activity of secondary plant metabolites*.
- 2001-2003. At the Faculty of Agriculture, University of Belgrade, Department of Fruit Science and Viticulture, participated in the undergraduate course *Medicinal plants*.

- Mentor of seven defended doctoral dissertations (PhD theses) at the University of Belgrade - Faculty of Pharmacy (candidates / year of defense: Sofija Đorđević, PhD / 2008, Gordana Zdunić, PhD / 2013, Jelena Kukić-Marković, PhD / 2013, Višnja Popović, PhD / 2013, Ivan Pavlović, PhD / 2015, Ljuboš Ušjak, PhD / 2019, Violeta Milutinović, PhD / 2021).
- Member of the Committee for the defense of one doctoral dissertation defended at the Faculty of Technology and Metallurgy, University of Belgrade.
- Mentor of one defended MSc thesis at the University of Belgrade - Faculty of Pharmacy (Ana Tomić, MSc / 2007).
- Member of the Committee for the defense of one MSc thesis defended at the University of Belgrade - Faculty of Pharmacy.
- Member of the Committees for the defense of two specialist theses in Specialist Academic Studies in Cosmetology.
- Mentor of 87 student graduate theses/final works and member of the Committees for the defense of 41 student graduate theses at the University of Belgrade-Faculty of Pharmacy. Mentor of four student graduate theses at the Department of Pharmacy / Pharmacognosy, Faculty of Medicine, University of Banja Luka.
- Mentor of six student scientific research works within the activities of the Center for Scientific Research of Students of the University of Belgrade-Faculty of Pharmacy.

Textbooks:

- Silvana D. Petrović, Zoran A. Maksimović, Tatjana D. Kundaković. *Analysis of Herbal Drug Constituents* (Manual for theoretical and practical classes in Pharmacognosy). University of Belgrade - Faculty of Pharmacy. Belgrade, 2009, 3rd edition 2018. ISBN 978-86-80263-67-0.
- Silvana D. Petrović, Zoran A. Maksimović, Tatjana D. Kundaković. *Chemical Analysis of Herbal Drugs and Constituents* (Exercise book). University of Belgrade - Faculty of Pharmacy. Belgrade, 2009, 3rd edition 2018. ISBN 978-86-80263-68-7.
- Tatjana D. Kundaković, Milica M. Drobac, Silvana D. Petrović, Zoran A. Maksimović, Mirjana D. Marčetić. *Macroscopic and Microscopic Analysis of Herbal Drugs* (Manual for practical classes in Pharmacognosy). University of Belgrade - Faculty of Pharmacy. Belgrade, 2017, 2nd edition 2022. ISBN 978-86-6273-038-1.

Activities within the Faculty:

- April 2025-present and 2007-2019. Head of the Department of Pharmacognosy.
- May 2025-present. Leader of the Research Group for Natural Products.
- 2022-present and 2007-2009. Member of the Faculty of Pharmacy Council.
- 2020-present. Coordinator for the scientific area Pharmacognosy of Doctoral academic studies of Pharmaceutical sciences (program accredited in 2020).
- 2019-present and 2010-2013. Member of the Commission for doctoral studies.
- 2019-2020 and 2009-2012. Director of the module Pharmacognosy of Doctoral academic studies.
- 2015-2022 and 2011-2013. Member of the Program Council of the Centre for continuing education.
- 2017. Member of the Working Group for re-accreditation of integrated academic studies.
- 2003-2004. Member of the Faculty of Pharmacy Working Group appointed for the making of the *Syllabus*.
- In several terms from 1996-2006., member of the Commission for postgraduate academic studies

Activities within wider Academic Community:

- Member by invitation of the Committee for Marketing Authorisation of Human Medicinal Products at the Medicines and Medical Devices Agency of Serbia (ALIMS).
- External expert of the Medicines and Medical Devices Agency of Serbia (ALIMS), as well as of the Agency for Medicines and Medical Devices of Montenegro (CALIMS).
- 2007-2014. President of the Committee for Marketing Authorisation of Traditional Medicinal Products at the Medicines and Medical Devices Agency of Serbia (ALIMS).
- Reviewer in about 30 international and national scientific journals.
- 2017-2022. Member of the Editorial Board of the international scientific journal *Chemistry & Biodiversity* (ISSN 1612-1872).
- Guest Editor of the special issue of the journal *Arhiv za farmaciju* (Archives of Pharmacy) "*Herbal medicinal products in modern pharmaceutical practice*", 2019; 69(4): 221-321.
- 2001-2024. Held 26 lectures at 24 accredited continuing education courses and professional symposiums.

- 2007-2019. Member of the Expert Committee of the Pharmaceutical Association of Serbia.
- 2004-2008. President of the Section for Medicinal Plants of the Pharmaceutical Association of Serbia.
- 2005-2007. President of the Committee for Herbal and Homeopathic Medicines at the Agency for Medicines of Republika Srpska (B&H).
- 2004-2005. Member of the Team for Homeopathy and Traditional Medicine at the Pharmaceutical Chamber of Serbia.
- 2004-2008. Member of the Committee for recognition of varieties of medicinal, aromatic, spice and other industrial plants at the Ministry of Agriculture, Forestry and Water Management of the Republic of Serbia.
- 2000. Member of the Expert Group for harmonisation of the Yugoslav Pharmacopoeia 2000 (Ph. Jug. V) monographs - Volume III; section: Herbal Drugs.
- Member of the Pharmaceutical Association of Serbia (SFUS).
- Member of the Society for Medicinal Plant and Natural Product Research (GA).
- Member of the Association for the Medicinal & Aromatic Plants of Southeast European Countries (AMAPSEEC).

Professional publications:

- **Petrović S**, Kundaković-Vasović T, Drobac M, Maksimović Z, Marčetić M, Stojanović M, Tadić V. *Supplement to the Formulae Magistrales 2008 (MF 2008) - Herbal Teas*. The Pharmaceutical Association of Serbia. Belgrade, 2024. ISBN 978-86-910113-5-2. ISBN of the electronic edition 978-86-910113-6-9.
- Co-author of the publication / supplementary textbook *Pharmacotherapy Guide 7* (section: *Phytotherapy*). The Medicines and Medical Devices Agency of Serbia. Belgrade, 2022. ISSN 1451-4680.
- Co-author of *the Medicines Registry of Republika Srpska with the Fundamentals of Pharmacotherapy* (section: *Herbal medicinal products*). The Agency for Medicines of Republika Srpska. Banja Luka, 2006. ISBN 99938-818-1-3.

Projects:

Researcher in national scientific projects:

- 2011-2019. "Investigation on medicinal potential of plants: morphological, chemical and pharmacological characterization" (OI 173021). Ministry of Education, Science and Technological Development, Republic of Serbia.
- 2011-2019. "Examination of the mechanisms of action, interactions and toxic effects of adjuvant analgesics" (OI 175045). Ministry of Education, Science and Technological Development, Republic of Serbia.
- 2006-2010. "Investigation on medicinal potential of plants: morphological, chemical and pharmacological characterization" (OI 143012). Ministry of Science and Environmental Protection / Ministry of Science and Technological Development, Republic of Serbia.
- 2002-2005. "Investigation of the medicinal potential of wild plants: morphological, chemical and pharmacological characterization" (1568). Ministry of Science, Technology and Development, Republic of Serbia.
- 2002-2005. "Characterization of the potential psychotropic action of some new synthesized and natural neuroactive substances" (1704). Ministry of Science, Technology and Development, Republic of Serbia.
- 1996-2000. Project "Bio-pharmaceutical and chemical-technological research of medicinal substances and medicinal plants" (13M02). Subproject "Investigation of physiologically active and nutritive constituents of medicinal, aromatic and edible plants" (P22). Topic "Study of medicinal and aromatic plants of Yugoslavia". Ministry of Science, Technology and Development, Republic of Serbia, FRY.
- 1993-1995. Project 13141. Subproject "Investigation of physiologically active and nutritive constituents of medicinal, aromatic and edible plants". Ministry of Science, Technology and Development, Republic of Serbia, FRY.

Projects within international scientific cooperation:

- 2023-2025. Leader of the bilateral project "Chemotaxonomic investigations and biological potential of *Stachys recta* group (Lamiaceae) from the area of Balkan Peninsula" between Serbian Academy of Sciences and Arts and Bulgarian Academy of Sciences.
- 2014-2016. Researcher on the bilateral project "Taxonomy, phytogeography and conservation of plant taxa from *Hieracium* s. str. (Asteraceae) in the Bulgarian and Serbian floras with special emphasis on *H.* sect. *Pannosa*" between Serbian Academy of Sciences and Arts and Bulgarian Academy of Sciences.
- 2004-2008. Leader of the bilateral project "*Hieracium* sections *Hololeia* and *Pannosa* in Serbia; taxonomical-phytogeographical analysis" between Serbian Academy of Sciences and Arts and Polish Academy of Sciences.

Selected publications:

1. Cvetković S, Ignjatijević A, Kukić-Marković J, Vuletić S, Ušjak L, Milutinović V, Mitić-Ćulafić D, **Petrović S**, Nikolić B. Further insights into antimicrobial and cytotoxic potential of *Achillea millefolium* herb methanol and dichloromethane extracts. *Industrial Crops and Products* 2025; 225: 120553.
2. Ušjak L, Stojković D, Carević T, Milutinović V, Soković M, Niketić M, **Petrović S**. Chemical analysis and investigation of antimicrobial and antibiofilm activities of *Prangos trifida* (Apiaceae). *Antibiotics* 2024; 13(1): 41.
3. Milutinović V, Niketić M, Krunic A, Nikolić D, Petković M, Ušjak L, **Petrović S**. Sesquiterpene lactones from the methanol extracts of twenty-eight *Hieracium* species from the Balkan Peninsula and their chemosystematic significance. *Phytochemistry* 2018; 154: 19-30.
4. Milutinović V, Niketić M, Ušjak L, Nikolić D, Krunic A, Zidorn C, **Petrović S**. Methanol extracts of 28 *Hieracium* species from the Balkan Peninsula – Comparative LC–MS analysis, chemosystematic evaluation of their flavonoid and phenolic acid profiles and antioxidant potentials. *Phytochemical Analysis* 2018; 29(1): 30-47.
5. **Petrović S**, Ušjak L, Milenković M, Arsenijević J, Drobac M, Drndarević A, Niketić M. *Thymus dactyloides* as a new source of antioxidant and antimicrobial metabolites. *Journal of Functional Foods* 2017; 28: 114-121.
6. **Petrović S**, Drobac M, Ušjak L, Filipović V, Milenković M, Niketić M. Volatiles of roots of wild-growing and cultivated *Armoracia macrocarpa* and their antimicrobial activity, in comparison to horseradish, *A. rusticana*. *Industrial Crops and Products* 2017; 109: 398-403.
7. Popović V, Heyerick A, **Petrović S**, Van Calenbergh S, Karalić I, Niketić M, Deforce D. Sesquiterpene lactones from the extracts of two Balkan endemic *Laserpitium* species and their cytotoxic activity. *Phytochemistry* 2013; 87: 102-111.
8. Kukić J, Popović V, **Petrović S**, Mučaji P, Ćirić A, Stojković D, Soković M. Antioxidant and antimicrobial activity of *Cynara cardunculus* extracts. *Food Chemistry* 2008; 107(2): 861-868.
9. Đorđević S, **Petrović S**, Dobrić S, Milenković M, Vučićević D, Žižić S, Kukić J. Antimicrobial, anti-inflammatory, anti-ulcer and antioxidant activities of *Carlina acanthifolia* root essential oil. *Journal of Ethnopharmacology* 2007; 109(3): 458-463.
10. Rakić S, **Petrović S**, Kukić J, Jadranin M, Tešević V, Povrenović D, Šiler-Marinković S. Influence of thermal treatment on phenolic compounds and antioxidant properties of Oak acorns from Serbia. *Food Chemistry* 2007; 104(2): 830-834.