

NAME AND FAMILY NAME

Olivera Čudina

Employment Information:

- 2019-now: Full time professor, Department of Pharmaceutical Chemistry, University of Belgrade-Faculty of Pharmacy
- 2014-2019. Associate professor, Department of Pharmaceutical Chemistry, University of Belgrade-Faculty of Pharmacy
- 2009-2018. Visiting professor, University of Montenegro, Faculty of Medicine, Study program *Pharmacy*
- 2009-2010. Assistant professor hired under contract at the Faculty of Pharmacy, Tuzla, Bosnia and Herzegovina
- 2009-2014. Assistant professor, Department of Pharmaceutical Chemistry, University of Belgrade-Faculty of Pharmacy
- 1996-2009. Assistant, Department of Pharmaceutical Chemistry and Drug Analysis, University of Belgrade-Faculty of Pharmacy
- 1991-1996. Teaching assistant, Department of Pharmaceutical Chemistry and Drug Analysis, University of Belgrade-Faculty of Pharmacy
- 1990-1991. Teaching associate, Department of Pharmaceutical Chemistry and Drug Analysis, University of Belgrade-Faculty of Pharmacy
- 1989-1990. Bachelor of Pharmacy, Biochemical laboratory of Clinical center “Zvezdara”

Education:

- 2008. Drug testing and quality control specialist. Defended specialist theses entitled “*Quantitative analysis of fluocortolone, fluocortolone hexanoate and fluocortolone pivaloate in pharmaceutical dosage forms using UV-spectrophotometry and liquid chromatography *** Pharmacotherapeutic use of dermocorticoids*” mentored by Professor S. Vladimirov, University of Belgrade-Faculty of Pharmacy.
- 2007. PhD, defended PhD thesis entitled “*Interactions of pharmacologically active compounds with micelles as a model system for biomembranes*” mentored by Professor S. Vladimirov, University of Belgrade-Faculty of Pharmacy. Scientific field: Medicinal-pharmaceutical chemistry and structural analysis
- 1996. Master of pharmaceutical sciences, defended master thesis entitled

"Synthesis of 1,4-dihydrazinophthalazine derivatives of desoximethasone, fluorometholone, fluocortolone and their spectrophotometric determination" mentored by Professor S. Vladimirov, University of Belgrade-Faculty of Pharmacy. Scientific field: Medicinal-pharmaceutical chemistry and structural analysis

- 1989. Bachelor of Pharmacy, University of Belgrade-Faculty of Pharmacy (average grade 9.50/10)

Training:

- September 2016. Training (one month) at Perelman School of Medicine (University of Pennsylvania, USA)
- April 2016. GMP-Good Manufacturing Practice
- April 2016. Knowledge tests in measuring educational outcomes
- November 2015. Training for leading laboratory evaluator (SRPS ISO/IEC 17025:2006)
- October 2014. Internal trainings of the quality management system according to the standard SRPS ISO 9001:2008
- 1989-1990. Training in Biochemical Laboratory of Clinical Center "Zvezdara"

Teaching activities:

- Integrated academic studies:
Pharmaceutical Chemistry 2, Pharmaceutical Chemistry 3, Pharmaceutical Chemistry, Selected topics of Pharmaceutical Chemistry
- Doctorial studies, module *Pharmaceutical Chemistry* (accredited in 2013.):
Seminar 2, Mechanisms of degradation and origin of impurities in pharmaceuticals, Chemical approach to prodrug design of pharmacologically active compounds
Doctorial studies (accredited in 2020.):
Literature review, Mechanisms of degradation and biotransformation of biologically active compounds
- Specialist studies required by healthcare system (Drug testing and quality control):
Pharmaceutical Chemistry
Specialist academic studies (Medical Products Release):
Active pharmaceutical ingredients and excipients

Mentor of one defended doctoral thesis, two specialization required by healthcare system, eleven final thesis on Integrated academic studies and six students scientific works within the activity of CNIRS.

Textbooks:

- Olivera Čudina. Steroidni hormoni i vitamini. Beograd, 2018.
- Slavica Erić, Olivera Čudina, Vladimir Dobričić, Jelena Savić. Praktikum iz Farmaceutske hemije II. Beograd, 2018.
- Zorica Vujić, Jasmina Brborić, Olivera Čudina, Slavica Erić, Branka Ivković, Katarina Vučićević, Bojan Marković. Priručnik za praktičnu nastavu iz farmaceutske hemije I i II deo, treće izmenjeno i dopunjeno izdanje, Beograd 2004. (2001, 2003.)

Activities within the Faculty:

- 2021- Head of the Department of Pharmaceutical Chemistry
- 2020- Membership in the Commission before the competition at the Faculty of Pharmacy
- 2019-2021. Coordination and membership of the Commission for Doctoral studies at the Faculty of Pharmacy
- 2018- Membership in the Faculty Council
- 2013-2019. Membership in the Commission for Specialist studies at the Faculty of Pharmacy
- 2015- Membership in the Laboratory for Drug testing and quality control at the Faculty of Pharmacy
- 2009-2013. President of the Commission for Student evaluation of pedagogical work
- 2013. Member of the Enrolment Commission at the Faculty of Pharmacy, University of Belgrade

Activities within wider Academic Community:

- 1990- Membership in Association of Pharmaceutical Associations of Serbia
- 2013-2018. Expert of Medicines and Medical Devices Agency of Montenegro
- 2011. Lecturer at course for continuing education "Treatment of diabetes

on molecular-chemical bases”, Faculty of Pharmacy, University of Belgrade

- Reviewer for international scientific journals: *Chromatographia*, *Acta Chromatographica*, *Journal of Serbian Chemical Society*, *Croatica Chemica Acta*, *Journal of Surfactants and Detergents*

Projects:

- 2022-2024. Program Ideas, Science Fund of the Republic of Serbia: „*Utilization of interplay between inflammation and cancer in the development of compounds with anticancer activity*” (**InfCanPlay**) University of Belgrade-Faculty of Pharmacy
- 2018-2021. COST CA17104; „*New diagnostic and therapeutic tools against multidrug resistant tumors*“
- 2018-2019. Bilateral project between the Faculty of Pharmacy, University of Belgrade, Serbia and the Faculty of Pharmacy, University of Ljubljana, Slovenia: “*In vitro assessment of lipophilicity and gastrointestinal absorption and molecular modeling - integrative approach in development of new dual inhibitors of DNA gyrase and topoisomerase IV*” (project number 451-03-01963/2017-09/35; 2018-2019).
- 2011-2019. Fundamental Research Project in the field of Chemistry, Ministry of Education, Science and Technological Development of Republic of Serbia: “*Development of molecules with antiinflammatory and cardioprotective activity: structural modifications, modelling, physicochemical characterization and formulation investigations*“ (172041), University of Belgrade-Faculty of Pharmacy
- 2011-2019. Technological development project, Ministry of Science and Technological Development of Republic of Serbia: “*Development of micro- and nanosystems as carriers for drugs with anti-inflammatory effect ad methods for their characterization*” (TR 34031), University of Belgrade-Faculty of Pharmacy
- 2006-2010. Fundamental Research Project in the field of Chemistry, Ministry of Science of Republic of Serbia: “*Substances for pharmaceutical use: modeling, synthesis, physico-chemical and biological properties, impurity degree and investigation of dosage forms*“, University of Belgrade-Faculty of Pharmacy
- 2001-2005. Fundamental Research Project in the field of Chemistry, Ministry of Science and Environment of Republic of Serbia: “*Molecular structures, chemical transformations, physico-chemical characterization, pharmaceutical purity and*

analysis of pharmacologically active substances“, University of Belgrade-Faculty of Pharmacy

- 2001-2005. Fundamental Research Project in the field of Chemistry, Ministry of Science and Environment of Republic of Serbia: “*Research and development of radiopharmaceutics and other agents for application in medicine*”, Institute of Nuclear Sciences - Vinča

Publications:

1. Vladimir Dobričić, Jelena Bošković, Dragana Vukadinović, Sote Vladimirov and Olivera Čudina. Estimation of lipophilicity and design of new 17 β -carboxamide glucocorticoids using RP-HPLC and quantitative structure-retention relationships analysis. *Acta Chromatogr.* 2021, 34(2), 130-137.
2. Jelena Rugar, Vladimir Dobričić, Jelena Grahovac, Siniša Radulović, Žiga Skok, Janez Ilaš, Mara Aleksić, Jasmina Brborić and Olivera Čudina. Synthesis and evaluation of anticancer activity of new 9-acridinyl amino acid derivatives RSC Medicinal Chemistry, 2020, 11 (3), 378-386.
3. B. Ivković, J. Brborić, V. Dobričić, O. Čudina. Development and Validation of a New Isocratic RP-HPLC Method for Simultaneous Determination of Sodium Metabisulfite and Sodium Benzoate in Pharmaceutical Formulations. *Acta Chromatogr.* 2019, 31 (2), 133-137.
4. Dobričić Vladimir, Vukadinović Dragana, Jančić-Stojanović Biljana, Vladimirov Sote, Čudina Olivera. AQbD-Oriented Development of a New LC Method for Simultaneous Determination of Telmisartan and Its Impurities *Chromatographia*, 2017, 80(8), 1199-1209.
5. V. Dobričić, K. Nikolic, S. Vladimirov, O. Čudina. Biopartitioning micellar chromatography as a predictive tool for skin and corneal permeability of newly synthesized 17 β -carboxamide steroids. *Eur. J. Pharm. Sci.* 2014, 56, 105-112.
6. V. Dobričić, B. Marković, K. Nikolić, S. Vladimirov. O. Čudina: 17 β -carboxamide steroids-*in vitro* prediction of human skin permeability and retention using PAMPA technique. *Eur. J. Pharm. Sci.* 2014, 52, 95-108.
7. V. Dobričić, B. Marković, N. Milenković, V. Savić, V. Jačević, N. Rančić, S. Vladimirov, O. Čudina. Design, synthesis and local anti-inflammatory activity of 17 β -carboxamide derivatives of glucocorticoids. *Arch. Pharm.* 2014, 347, 786 – 797.
8. Markovic Bojan D, Vladimirov Sote M, Cudina Olivera A, Odovic Jadranka V, Karljickovic-Rajic Katarina D. A PAMPA assay as fast predictive model of passive human skin permeability of new synthesized corticosteroid C-21 esters. *Molecules* 2012, 17, 480-491.
9. O. Čudina, J. Brborić, I. Janković, K. Karljicković-Rajić, S. Vladimirov. Study of

- valsartan interaction with micelles as a model system for biomembranes. *Colloid. Surface. B* 2008, 65, 80-84.
10. O. Čudina, K. Karljiković-Rajić, I. Ruvarac-Bugarčić, I. Janković: Interaction of hydrochlorothiazide with cationic surfactant micelles of cetyltrimethylammonium bromide. *Colloid. Surface. A* 2005, 256, 225-232.