

NAME AND SURNAME: Milkica (Adam) Crevar

Work experience:

11/2017 – assistant professor, Department of Pharmaceutical Chemistry, Faculty of Pharmacy, Belgrade University

01/2015 – 11/2017 Expert Associate, Department of Pharmaceutical Chemistry, Faculty of Pharmacy, Belgrade University

01/2013 – 01/2015 Teaching Associate, Department of Pharmaceutical Chemistry, Faculty of Pharmacy, Belgrade University

02/2007 – 01/2013 Teaching Assistant, Department of Pharmaceutical Chemistry, Faculty of Pharmacy, Belgrade University

03/2005 – 02/2007 Teaching Associate, Department of Pharmaceutical Chemistry, Faculty of Pharmacy, Belgrade University

Education:

2020. enrolled in specialist studies in Drug Analysis and Control, Faculty of Pharmacy, Belgrade University

2006-2015. Postgraduate studies, course: Pharmaceutical medicinal chemistry and structural analysis, Faculty of Pharmacy, Belgrade University (Doctoral thesis entitled *Influence of artichoke leaf extract on atorvastatin metabolism and optimization of liquid chromatography methods for determination of atorvastatin and metabolites in biological material* she defended on 04.06.2015. under mentorship of prof. Zorica Vujić)

1999-2005. Faculty of Pharmacy, University of Belgrade

1995-1999. gimnasium 'Uroš Predić', Pančevo

Training:

April 2016. Course " Knowledge tests in measuring educational outcomes" organized by Faculty of Pharmacy, Belgrade University

December 2014. – Advanced School of Mass Spectrometry (Belgrade, Serbia)

October 2013. – 1st Romanian Waters LC/MS School (Timisoara, Romania)

June 2010. – Course Transfer of analytical methods (Belgrade, Serbia)

Novembar 2007. – Simpozijum Nečistoće u farmaceutskim proizvodima (Vršac, Srbija)

September 2007. - Course New perspectives for fast HPLC using two micron packing material, broader pressure, flow and temperature range of analytical equipment on Agilent 1200RR system (Ohrid, Macedonia)

Teaching:

Organization, preparation and performance of practical classes within the integrated academic studies in compulsory subjects: Pharmaceutical Chemistry I, Pharmaceutical Chemistry II, Pharmaceutical Chemistry III and Pharmaceutical Chemistry.

Conducting theoretical classes in postgraduate studies; teacher on the subject Critical Review of Literature.

Textbooks:

- Manual for Practical Lessons in Pharmaceutical Chemistry III, Belgrade, 2018.

Faculty activities:

- **2019.** until today - Member of the Commission for monitoring and improving the quality of postgraduate studies
- **2013 – 2016.** Member of the Commission for Solidarity Assistance
- **2014.** Member of the Commission for the inventory of receivables and liabilities
- **2009.** Member of the Commission for the inventory of property at the Institute of Pharmaceutical Chemistry
- **2008.** Member of the Enrollment Commission

Activities within the wider academic community:

- **2009.** to this day she is a member of the Pharmaceutical Society of Serbia
- **2005.** to this day she is a member of Union of Pharmaceutical Associations of Serbia

Reviewer at M20 category journals

Acta Chromatographia, Clinical and Experimental Pharmacology and Physiology

Projects:

- **Project IDEJE, 2022-2024,** *Utilization of interplay between inflammation and cancer in the development of compounds with anticancer activity (InfCanPlay)*
Faculty of Pharmacy, Belgrade University (Ministry of Science and Technological Development, Republic of Serbia)
- **Project of the Ministry of Science, Education and Technological Development of the Republic of Serbia for the period of 2011 and further.**
Development of molecules with anti-inflammatory and cardioprotective effects: structural modifications, modeling, physico-chemical characteristics and formulation tests (OI172041), Faculty of Pharmacy, Republic of Serbia
- **Project of the Ministry of Science and Technological Development of the Republic of Serbia for the period 2005 - 2010.** Substances for pharmaceutical use: modeling, synthesis, physical-chemical and biological properties, degree of

purity and testing of dosage forms, (project 142072) Faculty of Pharmacy, University of Belgrade

Chosen publications:

- Jelena Džudović, **Milkica Crevar Sakač**, Marko Antunović, Aleksandra Repić, Slobodan Obradović, Snežana Đorđević, Jelena Savić, Boris Džudović, Development and validation of LC-MS/MS method for determination of plasma apixaban, *Acta Chromatographica*, 2021., <https://doi.org/10.1556/1326.2021.00948>
- Ivana Kurćubić, Una-Jovana Vajić, Sandra Cvijić, **Milkica Crevar Sakač**, Nataša Bogavac Stanojević, Zoran Miloradović, Nevena Mihajlović Stanojević, Milan Ivanov, Danijela Karanović, Đurđica Jovović, Jelena Đuriš, Mucoadhesive buccal tablets with propranolol hydrochloride: Formulation development and in vivo performances in experimental essential hypertension, *International Journal of Pharmaceutics*, 2021, <https://doi.org/10.1016/j.ijpharm.2021.121266>
- Milena Stevanović, Marija Đošić, Ana Janković, Vesna Kojić, Maja Vukašinović-Sekulić, Jovica Stojanović, Jadranka Odović, **Milkica Crevar Sakač**, Rhee Kyong Yop, Vesna Mišković Stanković, Antibacterial graphene-based hydroxyapatite/chitosan coating with gentamicin for potential applications in bone tissue engineering, *Journal of Biomedical Materials Research*, 2020, DOI: 10.1002/jbm.a.36974
- Jadranka Odović, **Milkica Crevar Sakač**, Zorica Vujić, The correlation of plasma protein binding and molecular properties of selected antifungal drugs, *Journal of the Serbian Chemical Society*, 2019, <https://doi.org/10.2298/JSC190925125O>
- Milena Stevanović, Marija Đošić, Ana Janković, Vesna Kojić, Maja Vukašinović-Sekulić, Jovica Stojanović, Jadranka Odović, **Milkica Crevar Sakač**, Kyong Yop Rhee, Vesna Mišković-Stanković, Gentamicin-Loaded Bioactive Hydroxyapatite/Chitosan Composite Coating Electrodeposited on Titanium, *ACS Biomaterials Science & Engineering*, 2018, DOI: 10.1021/acsbiomaterials.8b00859
- Ana Ninić, Vesna Spasojević Kalimanovska, Miron Sopić, Jelena Munjas, Nataša Bogavac Stanojević, Zorana Jelić Ivanović, Jelena Kotur Stevuljević, Slavica Spasić, **Milkica Crevar Sakač**, Marina Milenković, Zorica Vujić, Paraoxonases gene expression and distribution in rats organs treated with

atherogenic diet and atorvastatin therapy, *Indian Journal of Biotechnology*, 2018, Volume 17: 217-223

- Nataša Bogavac Stanojević, Jelena Kotur Stevuljević, Darko Černe, Janja Župan, Janja Marc, Zorica Vujić, **Milkica Crevar Sakač**, Miron Sopić, Jelena Munjas, Miroslav Radenković, Zorana Jelić Ivanović, The role of artichoke leaf tincture (*Cynara scolymus*) in the suppression of DNA damage and atherosclerosis in rats fed an atherogenic diet, *Pharmaceutical Biology*, 2018, <https://doi.org/10.1080/13880209.2018.1434549>
- **Milkica Crevar Sakač**, Zorica Vujić, Zoran Vujčić, Bojan Marković, Dragana Vasiljević, LC–MS/MS Method for Quantification of Atorvastatin, o-Hydroxyatorvastatin, p-Hydroxyatorvastatin, and Atorvastatin Lactone in Rat Plasma, *Acta Chromatographica*, 2016, DOI: 10.1556/1326.2016.28.3.1
- Nikola Milašinović, Bojan Čalija, Bojana Vidović, **Milkica Crevar Sakač**, Zorica Vujić, Zorica Knežević Jugović, Sustained release of α -lipoic acid from chitosan microbeads synthesized by inverse emulsion method, *Journal of the Taiwan Institute of Chemical Engineers*, 2015, DOI: 10.1016/j.jtice.2015.10.037
- **Milkica Crevar Sakač**, Zorica Vujić, Jasmina Brborić, Vesna Kuntić, Snežana Uskoković Marković, An Improved HPLC Method with the Aid of a Chemometric Protocol: Simultaneous Determination of Atorvastatin and Its Metabolites in Plasma, *Molecules*, 2013, doi:10.3390/molecules18032469