

DUŠANKA KRAJNOVIĆ

Employment Information:

- 2021 - *Full professor, Faculty of Pharmacy, University of Belgrade*
- 2016 - 2021 *Associate professor, Faculty of Pharmacy, University of Belgrade*
- 2005 - 2016 *Assistant professor, Faculty of Pharmacy, University of Belgrade*

Education:

- 2004, *PhD, Faculty of Pharmacy, University of Belgrade*
- 2000, *M Sc Faculty of Pharmacy, University of Belgrade*
- 2013, *Specialisation on Pharmacoeconomics and Pharmaceutical Legislation, Faculty of Pharmacy, University of Belgrade*
- 2013, *Specialisation on Pharmaceutical management and marketing, Faculty of Pharmacy, University of Belgrade*
- 2016, *Specialist of Pharmacy - Social Pharmacy*
- 1996, *BSc, Faculty of Pharmacy, University of Belgrade*

Training:

- *In the field of ethics in clinical research and good clinical practice at „Vienna School of Clinical Research“, Vienna*
- *1st International Conference Pharmacy Practice Research: Postgraduate students, postdoctoral fellows and supervisors Symposium Conference organised by the FIP Special interest group (SIGg) on Pharmacy Practice Research (25-27.06.2018)*
- *„TAIEX Workshop on Responsible Research & Innovation (RRI) as a cross-cutting issue of the Horizon 2020 program“ (2018)*
- *Four-day webinar of the Center for the Development of Pharmaceutical and Biochemical Practice "How to conduct research in Pharmaceutical practice" (19 - 27 September 2020)*
- *COST Action: IS1303 Meeting Title: Joint RDConnect/ CHIPME conference on „Ethically and legally sustainable partnership between industry and public funded research initiatives: PPP and Rare diseases as a case study“. Centre For Research Ethics And Bioethics, Uppsala, Sweden, 2017.god.*

Academic awards and distinctions:

Teaching activities:

Dr sc. Dušanka Krajnović participates in the realization of teaching in integrated academic studies for both study programs in 4 mandatory subjects: *Introduction to Pharmacy (MF)*, *Pharmaceutical Legislation and Ethics (MF)*, *Pharmaceutical Practice (MF)*, *Fundamentals of Pharmaceutical Management (MF)*, as well as 4 elective courses: *Ethics and Legislation (MB)*, *Public Health in Pharmaceutical Practice (MF)*, *Communication in Pharmaceutical Practice (MF)* and *Pharmaceutical Marketing (MF)*.

Dr sc. Dušanka Krajnović has been participating in postgraduate classes at the Faculty of Pharmacy, University of Belgrade, in specialist studies in: *Pharmaceutical Management and Marketing (FMM)* since 2006; *Pharmaceutical Legislation and Pharmacoeconomics (FEML)* since 2010 and *Placing the drug on the market (PLP)* since 2015.

Within these specialist studies, she is engaged in a number of subjects: *Pharmaceutical Legislation (FEFL)*, *Pharmaceutical Management 2 (FMM)*, *Pharmaceutical Marketing (FMM)*, *Communications in Pharmacy (FMM)*, *Competences and Personnel Management in Pharmacy (FMM)*, *Social marketing and new public health (FMM)*, *Business Communication in Pharmaceutical Practice (FMM)*; *Pharmaceutical Legislation and Professional Duties of a Qualified Pharmacist (PLP)*. In the health specialization, she participates in classes in the following subjects: *Public Health*, *Ethics and Patients' Rights*, *Social Pharmacy* and *Pharmaceutical Legislation*.

Within the Doctoral Academic Studies of Pharmacy, Dušanka Krajnović is engaged in teaching the compulsory subject *Methodology and Ethics in Research*. She is also engaged in doctoral academic studies in the field of *Social Pharmacy and Pharmaceutical Practice Research*, in the following subjects: *Social Pharmacy*, *Pharmaceutical Practice*, *History of Pharmacy*, *Biomedical Ethics*, *Methodology in Social Pharmacy Research and Pharmaceutical Practice*, *Integrated Communications in Pharmaceutical Practice*, *Health Research outcomes and modeling*. She has been engaged in teaching at the doctoral academic studies at the University of Belgrade, in the program History and Philosophy of Natural Sciences and Technology, since 2015. She participated in the realization of teaching (subject: *Pharmaceutical Ethics and Legislation*) of integrated academic studies of pharmacy, as well as in postgraduate studies of pharmacy at the Faculty of Pharmacy, University of Tuzla, Bosnia and Herzegovina from 2008 to 2017.

Participates in teaching integrated studies in the following subjects:

- *Pharmaceutical Legislation and Ethics (MF)*
- *Ethics and Legislation (MB)*
- *Basics of Pharmaceutical Management (MF)*
- *Basics of Health Management (MB)*
- *Drug supply management (MF)*
- *Pharmaceutical marketing (MF)*
- *Public Health in the pharmaceutical practice*

She is the Head of the health specialization in the field of Social Pharmacy, and the research group for social pharmacy and pharmaceutical practice, and an associate at the Center for Bioethical Studies.

She has been participating in postgraduate teaching at the Faculty of Pharmacy, in doctoral studies - social pharmacy and research of pharmaceutical practice, while she is engaged in several modules of specialist studies:

- *Pharmaceutical Management and Marketing*
- *Placing the drug on the market*
- *Pharmacoeconomics and pharmaceutical legislation*
- *Social pharmacy (spec. of Health workers)*

Mentor/member of Commission:

- *more than 200 specialist papers*
- *more than 270 undergraduate final papers*

Mentor of 6 defended doctoral dissertations, and one submitted doctoral dissertation.

Member of the commission:

- *5 doctoral dissertations i one submitted and one finished doctoral disertation.*
- *1 master thesis*

Textbooks:

Co-author of the textbook:

Tasić Lj, Krajnović D, Lakić D, Odalović M, Tadić I. Farmaceutska praksa. Udžbenik, 1. Izdanje. (2018, ISBN: 978-86-6273-048-0) izdavač Univerzitet u Beogradu – Farmaceutski fakultet, Beograd

Krajnović D, Lakić D. Uvod u farmaciju. Udžbenik, 1. izdanje (2019, ISBN: 978-86-6273-057-2) izdavač Univerzitet u Beogradu – Farmaceutski fakultet, Beograd

Co-author of manuals and practicums:

Tadić I, Odalović M, Lakić D, Krajnović D. Farmaceutska praksa - praktikum za studente farmacije (2019, ISBN: 978-86-6273-059-6) izdavač Univerzitet u Beogradu – Farmaceutski fakultet, Beograd

Krajnović D, Milošević Georgiev A, Marinković V. Praktikum Etika i zakonodavstvo, drugo izdanje (2019, ISBN 978-86-6273-015-2), izdavač Farmaceutski fakultet Univerziteta u Beogradu, Beograd

Krajnović D, Marinković V, Milošević Georgiev A. Praktikum Farmaceutsko zakonodavstvo i etika, peto izdanje (2018, ISBN 978-86-6273-014-5), izdavač Farmaceutski fakultet Univerziteta u Beogradu, Beograd

Zornić H, Krajnović D. Zakonska regulativa u odnosu na lekove koji deluju na nervni sistem. U: Todorović Z, Turza K, Drulović J. (ured.) Neuroetika (2017, ISBN: 978-86-7117-521-0), izdavač Medicinski fakultet Univerziteta u Beogradu, Beograd

Krajnović D, Marinković V, Milošević Georgiev A. Praktikum Farmaceutsko zakonodavstvo i etika, četvrto izdanje (2017, ISBN 978-86-6273-014-5), izdavač Farmaceutski fakultet Univerziteta u Beogradu, Beograd

Krajnović D, Marinković V, Milošević Georgiev A. Praktikum Farmaceutsko zakonodavstvo i etika, treće izdanje (2015, ISBN 978-86-6273-014-5), izdavač Farmaceutski fakultet Univerziteta u Beogradu, Beograd

Dužanka Krajnović, Valentina Marinković, Andrijana Milošević Georgiev, FARMACEUTSKO ZAKONODAVSTVO I ETIKA, Farmaceutski fakultet, Beograd, 2013, drugo izdanje 2015.

Dužanka Krajnović, Andrijana Milošević Georgiev, Valentina Marinković, ETIKA I ZAKONODAVSTVO, Farmaceutski fakultet, Beograd, 2013, drugo izdanje 2015.

Krajnović D, Milošević Georgiev A, Marinković V, Praktikum Etika i zakonodavstvo, prvo izdanje (2013, ISBN 978-86-6273-015-2), izdavač Farmaceutski fakultet Univerziteta u Beogradu, Beograd

Krajnović D, Marinković V, Milošević Georgiev A. Praktikum Farmaceutsko zakonodavstvo i etika, drugo izdanje (2013, ISBN 978-86-6273-014-5), izdavač Farmaceutski fakultet Univerziteta u Beogradu, Beograd

Tasić Lj, **Krajnović D**, Petrić M, Lakić D, **Tadić I**, Farmaceutska praksa – praktikum, drugo izdanje (Farmaceutski fakultet Univerziteta u Beogradu, Beograd, 2011)

Tasić Lj., Krajnović D., Jocić D., Jović S. Komunikacija u farmaceutskoj praksi, Farmaceutski fakultet Univerziteta u Beogradu, Beograd 2011, ISBN:978-86-80263-86-1 (Pomoćni udžbenik za diplomsku i poslijediplomsku specijalističku nastavu na Farmaceutskom fakultetu u Beogradu iz oblasti primenjenih i integriranih komunikacija)

Tasić Lj, **Krajnović D**, Petrić M, Lakić D, **Tadić I** Farmaceutska praksa – praktikum, prvo izdanje, Farmaceutski fakultet Univerziteta u Beogradu, Beograd, 2010

Tasić Lj., Parojčić D., Bogavac-Stanojević N, Ilić K., Jović S., Kocić-Pešić V. Promocija zdravlja i prevencija bolesti žena u farmaceutskoj praksi, Farmaceutski fakultet Univerziteta u Beogradu. 2007, ISBN: 978-86-80263-60-1 (Odlukom Nastavno-naučnog veća Farmaceutskog fakulteta Univerziteta u Beogradu br 01-290/3 verifikovana monografija kao udžbenik)

Monographic bibliographic publication (M43)

1. **Krajnović D.** Bulat P, Bojanić V, Ilić J. (ured.) Standardi za studentsku stručnu/kliničku praksu: Medicina, Farmacija, Stomatologija, Zdravstvena nega - Vodić za obezbeđenje kvaliteta. Univerzitet u Beogradu. Beograd, 2018.
2. Dušanka Parojčić. Razvoj etike u farmaciji od teorije do savremene prakse. Konstisi: Beograd, 2006.
ISBN: 86- 907539-1-5
Ključne reči: farmacija, etika, razvoj, etički normativ, apotekarska zakletva, etički kodeks
3. Nikolin M., Krajnović D. Zato što na zdravo imate pravo, istorijat apotekarstva Rasinskog okruga. Kruševac: Apoteka Kruševac, 2013. godine
4. Nikolin M., Kocić-Pešić V., Kostić L., Parojčić D. *Galerija farmaceutskih veština*. Placebo: Beograd, 2005.

Chapter in the thematic collection of national importance M45

1. Kostić L, Krajnović D. Promocija zdravlja žena u javnoj apoteci – veštine u komunikaciji. U: Ilić K, Tasić Lj. Zdravlje žena u Srbiji – Promocija zdravlja, prevencija bolesti i terapija. Farmaceutski fakultet Univerziteta u Beogradu 2009: 35-47; ISBN: 978-86-80263-66-3; *Ključne reči:* komunikacija, bazično poverenje, zdravlje žene, odnos farmaceut-korisnik zdravstvene usluge
2. Krajnović D. Etički aspekti farmaceutske zdravstvene zaštite. U: Ilić K, Tasić Lj. Zdravlje žena u Srbiji – Promocija zdravlja, prevencija bolesti i terapija. Farmaceutski fakultet Univerziteta u Beogradu 2009: 49-63; ISSN: 978-86-80263-66-3; *Ključne reči:* etika, farmaceutska praksa, farmaceutska etika, etički principi
3. Krajnović D. Ethical and Social Issues related to Rare Diseases (in Serbian: Etički i društveni aspekti u vezi sa retkim bolestima) In: Drezgić R., Radinković Ž, Krstić P (eds.) Horizont bioetike: moral u doba tehničke reprodukcije života, Beograd: Univerzitet u Beogradu-Institut za filozofiju i društvenu teoriju 2012: 231-52.

Activities within the Faculty:

- *President of the Disciplinary Committee*
- *Member of the Ethics Committee for Biomedical Research at the Faculty of Pharmacy, University of Belgrade (since 2015)*
- *President of the Ethics Commission of the Faculty of Pharmacy (2017-2020)*
- *Head of the Department of Social Pharmacy and Pharmaceutical Legislation (2013 - 2019)*

Activities within wider Academic Community:

- *Member of the Association of Private Pharmacists of Serbia*
- *Member of the Association of Pharmaceutical Associations of Serbia*
- *Member of the Pharmaceutical Care Network Europe*
- *Member of the International Society for the History of Pharmacy (Secretary General)*
- *Member (since 2018; President (2015-2018)) of the Ethics Committee of the Pharmaceutical Chamber of Serbia. She is the author of the Oath of Pharmacists and the Code of Ethics for members of the Pharmaceutical Chamber of Serbia.*

In addition, she was a co-mentor for the defense of a total of 16 student research papers,

- Dr sc. Dušanka Krajnović is the co-author of two textbooks for IAS at the Faculty of Pharmacy (2018, 2019), co-author of three auxiliary textbooks for undergraduate studies at the Faculty of Pharmacy, University of Belgrade (2018, 2019) and co-author of one chapter in the auxiliary textbook for postgraduate teaching at the Medical Faculty of Belgrade (2017).

Projects:

She has participated as a researcher / consultant / coordinator / board member in a number of projects: three national projects funded by the Ministry of Education and Science of Serbia, four COST Actions (COST Action IS1201-Disaster Bioethics: addressing ethical issues caused by disasters COST Action IS1303: Citizen's Health through public-private initiatives: public health, market and ethical perspectives, COST Action 19132: European Network to Advance Best practices & technoLogY on medication adherence, an Erasmus + project to strengthen the framework for experiential health education in Serbia (ReFEEHS) and one project from the program Proof of Concept no. 5622 "Pharmaceutical service for patients with diabetes - development of e-portal and mobile application as a concept for support based on user needs").

R 109 Participation in national projects

2020 - 2022 Proof of the concept - Ros, no. 5622, "Pharmaceutical service for patients with diabetes - development of e-portal and mobile application as a concept for support based on user needs" - researcher.

2011 - 2019 scientific research project MPNTR no. 41004, "Rare diseases: molecular pathophysiology, diagnostic and therapeutic modalities and social, ethical and legal aspects", within the subproject "Bioethical aspects: morally acceptable in the biotechnological and socially possible"

project of the Ministry of Culture and Information no. 401-01-101 / 2017-02: Implementation of the second phase of conservation and restoration measures to protect part of the library fund of the pharmacohistory collection of the Faculty of Pharmacy, University of Belgrade: protect for future generations and become visible on the European map of health culture, project manager

2008 - 2009 project of the Faculty of Pharmacy, University of Belgrade and Pharmacy Belgrade with the support of the Ministry of Health of the Republic of Serbia "Health promotion and prevention of women's diseases in pharmaceutical practice in Serbia" - coordinator for education and evaluation

2006 - 2007 project of the Faculty of Pharmacy, University of Belgrade "Health promotion and prevention of women's diseases" - coordinator for education and evaluation

2002-2006 scientific research project of the Ministry of Science and Environmental Protection no. 101432, "Endogenous parameters of xenobiotic exposure: analytics, monitoring, prophylaxis and therapy"

Dr. Dušanka Krajnović has so far published a total of 84 papers and 303 announcements.

Selected publications:

1. Levic M, Bogavac-Stanojevic N and **Krajnovic D** (2021) The Instruments Used to Assess Health Literacy and Pharmacotherapy Literacy of Diabetes Mellitus Type 2 Patients: A Scoping Review. *Front. Public Health* 9:747807. doi: 10.3389/fpubh.2021.747807
2. Jasmina B. Timic, Jelena Kotur-Stevuljevic, Heiner Boeing, **Dusica Krajnovic**, Brizita Djordjevic, Sladjana Sobajic. A cross-sectional survey of salty snack consumption among Serbian urban-living students and their contribution to salt intake. *Nutr. 2019*. *Nutrients* 2020, 12, 3290; doi:10.3390/nu12113290
3. Tatjana Crnjanski; **Dusanka Krajnovic**; Mirko Savic. Pharmacist's assessment of the difficulty and frequency of ethical issues encountered at community pharmacy

settings. *Sci Eng Ethics* 2019, Vol. 25 (4):1017–1036 doi: 10.1007/s11948-017-9870-x. [Epub ahead of print]

4. **Krajnović, D.**; Ubavić, S.; Bogavac-Stanojević, N. Pharmacotherapy Literacy of Parents in the Rural and Urban Areas of Serbia—Are There Any Differences? *Medicina* 2019, 55, 590. doi: 10.3390/medicina55090590
5. **Krajnović, D.**; Ubavić, S.; Bogavac-Stanojević, N. Pharmacotherapy Literacy and Parental Practice in Use of Over-the-Counter Pediatric Medicines. *Medicina* 2019, 55, 80. doi: 10.3390/medicina55030080
6. Milica Zekovic, Marija Djekic-Ivankovic, Marina Nikolic, Mirjana Gurinovic, **Dusanka Krajnovic**, Marija Glibetic. Validity of the Food Frequency Questionnaire assessing the folate intake in women of reproductive age living in the country without food fortification: application of the method of triads. *Nutrients* 2017, 128;9:1-17. Accepted for publication in 2017
7. **Krajnović D**, Jocić D. Experience and Attitudes Toward Informed Consent in Pharmacy Practice Research: Do Pharmacists Care? *Science and Engineering Ethics* (2016) doi:10.1007/s11948-016-9853-3
8. Milosavljevic J, Bogavac-Stanojevic N, **Krajnovic D**, Mitrovic-Jovanovic A. Serbian gynecologists' and pharmacists' beliefs about emergency contraception. *Women and Health* 2016 April 11:1-12 (Epub ahead of print) <http://dx.doi.org/10.1080/03630242.2016.1176099>;
9. Crnjanski T, **Krajnovic D**, Tadic I, Stojkov S, Savic M. An Ethical Issue Scale for Community Pharmacy Setting (EISP): Development and Validation. *Science and Engineering Ethics* 2016;22(2):497-508.
10. Budin-Ljøsne I, Mascalzoni D, Soini S, Machado H, Kaye J, Bentzen HB, Rial-Sebbag E, D'Abramo F, Witt M, Schamps G, Katić V, **Krajnovic D**, Working Group 1 COST Action CHIP ME IS1303 "Citizen's Health through public-private Initiatives: Public health, Market and Ethical perspectives", Harris JR. Feedback of individual genetic results to research participants: Is it feasible in Europe? *Biopreservation and Biobanking* 2016; 14 (3) , 241 -248. DOI: 10.1089/bio.2015.0115