**NAME AND SURNAME: ERVINA BEČIĆ**

**Work experience:**

* 2024. Full Professor

Department of Drug Analysis

* 2019 Associate Professor

Department of Drug Analysis

* 2014. Assistant Professor

Department of Pharmaceutical Analytics

* 2008. Senior Assistant

Department of Pharmaceutical Analytics

* 1998. Teaching Assistant

Department of Pharmaceutical Analytics

**Education:**

* 2014. PhD in pharmaceutical sciences

Doctoral thesis: „*Application of lanthanide complexes for determination of drug residues in the environment*“

University of Sarajevo - Faculty of Pharmacy.

* 2007*.* MSc in pharmaceutical sciences

*Master thesis: „Spectroscopic and chromatographic examination of newly synthesized 3-substituted 4-hydroxycoumarin derivatives*“

University of Sarajevo - Faculty of Pharmacy

* 2005. Specialization

Specialist in “Quality control of medicines*”*

* 1998*.* MPharm

University of Sarajevo - Faculty of Pharmacy

**Adittional education:**

* 2022. *ERASMUS+ staff mobility for training at the Faculty of Chemistry and Food Technology at the Slovaik University of Technology in Bratislava (Slovakia)*
* 2015. Long-life*Long-life learning program „Pedagogical education and enforcement of competencies of academic staff at the University of Sarajevo“ (TRAIN program) organized by University of Sarajevo*

**Academic/teaching work:**

***The integrated study programme of the first and second cycle of University of Sarajevo – Faculty of Pharmacy***

Subjects:

• compulsory subjects " "Quality Control of Medicines I", "Quality Control of Medicines II";

• elective subjects: "Selected chapters from Medicines Control - Good control and laboratory practice", "Selected chapters from Medicines Control - Impurities in medicines", "Selected chapters from Medicines Control - Quality control of border medical products;

• lecturer on the subject "Professional practice" for students in the final year of study.

***III (third) cycle/doctoral studies at the University of Sarajevo - Faculty of Pharmacy***

***University of Sarajevo - Faculty of Pharmacy***

Subjects:

• compulsory subject "Methodology and ethics of scientific research";

• elective subjects "Instrumental methods of protein analysis and biopharmaceuticals", and "New trends in the extraction of bioactive substances and their metabolites"

**Specializations:**

* Mentor and member of the examination committee for specialization Quality Control of Medicins of the Federal Ministry of Health.

**Other academic positions and involvements:**

* Mentor of students final theses.
* In the academic year 2018./19., 2019./20. and 2021./21 visiting teacher on the course Pharmaceutical Quality Control at the Faculty of Pharmacy of the University of Split.
* In the study year 2018./19. and 2021./22. participated in teaching at the PhD studies at the Faculty of Pharmacy, University of Tuzla.
* 2023 - today - head of the Department of Drug Analysis
* 2021. – 2023. - acting Head of the Department of Social Pharmacy and Pharmaceutical Legislation
* 2019. - 2021. - head of the Department of Drug Analysis

**Awards:**

* 2023. The award for the results of scientific research/artistic work for 2022 year. (awarded by the University of Sarajevo)

**Projects:**

***Project leader***

● "Alternative methods for determining antibiotic residues in honey" (scientific research project financed by the Ministry of Education and Science FBiH);

● "Determining the content of heavy metals and secondary metabolites in samples of hemp (*Cannabis sativa* L.) collected from areas polluted by heavy metals" (Bilateral scientific research project between the Republic of Slovenia and Bosnia and Herzegovina).

● "Equipping the laboratory for physical and chemical tests" (infrastructure-development project financed by the Ministry of Science Education FBiH

● "Modernization of the central educational-research laboratory of the University of Sarajevo - Faculty of Pharmacy" (infrastructure-development project financed by the Ministry of Science Education FBiH);

***Project associate***

• " Aerosols effects of different tobacco products on individual and community health" (scientific research project financed by the Ministry of Science, Higher Education and Youth of Sarajevo Canton);

• "Mother's exposure and child's health: Investigation of transplacental transfer of pollutants/TOXMOM" (scientific research project financed by the Ministry of Science, Higher Education and Youth of Sarajevo Canton);

• "Testing the stability of UV filters in suncreams and determining the toxic properties of the obtained degradation products" (Bilateral scientific research project between the Republic of Slovenia and Bosnia and Herzegovina).

• "Erasmus+ Key action 1 - Mobility for teachers and staff - higher education student and staff mobility - Slovakia - BiH, Faculty of Pharmacy Sarajevo UNSA - Slovak University of Technology in Bratislava (STU)

* "Erasmus + Project "Innovative Quality Assessment Tools for Pharmacy Studies in Bosnia and Herzegovina/IQPharm"

• "Interaction between omeprazole and gliclazide in CYP2C19 normal/ ultrarapid metabolisers" (Project funded by the Wellcome Trust Seed Award in Science)

• Development of alternative methods of identification and determination of derivatives of chlorophenoxy carboxylic acids".

• "Investigation of the pharmacological effect of medicinal drugs with antimicrobial and antiseptic action during and after the permitted period of use" (scientific-research project financed by the Ministry of Science, Higher Education and Youth of Sarajevo Canton);

• "Extraction, chemical characterization and antioxidant activity of the essential oil of the flower, leaf and fruit of the thorn (*Prunus spinosa*) from Bosnia and Herzegovina" (scientific-research project financed by the Ministry of Science, Higher Education and Youth of Sarajevo Canton);

• "Investigation of the presence of polychlorinated biphenyls in the soil of the catchment area on the territory of Sarajevo Canton" (scientific research project financed by the Ministry of Education and Science of FBiH);

• "Examination of stereomeric drugs by chromatographic methods" (scientific research project financed by the Ministry of Education and Science of FBiH);

• "Study of stereoselective separation of enantiomers of NSAID drugs using biocatalysts" (scientific research project financed by the Ministry of Education and Science of FBiH);

**Selected publications:**

Bečić E., Salihović M., Tüzün B., Omeragić E., Imamović B., Dedić M., Roca S., Špirtović-Halilović S. [Comparative study of experimental and DFT calculations for 3-cinnamoyl 4-hydroxycoumarin derivatives](https://content.iospress.com/articles/technology-and-health-care/thc231798).Technology and Health Care. 2024; 2673-2684.

Bečić E., Dedić M., Imamović B., Špirtović-Halilović S., Omeragić E. Substituent and Solvent Effects on the Spectral Properties of 3-Substituted Derivatives of 4-Hydroxycoumarin. *Kemija u Industriji*. 2024; 73 (1-2):1−6.

Dedić M., Omeragić E., Imamović B., Bilajac E., Mahmutović L., Glamočlija U., Bečić E. HPLC method for the determination of thymoquinone in growth cell medium. *Technology and Health Care*. 2024; 32: 2585-2598.

Bilajac E., Osmanović A., Glamočlija U., Veljović E., Imamović B., Bečić E., Roca S., Salihović M., Završnik D., Špirtović-Halilović S. Synthesis, *in silico* study and antitumor activity of coumarin compounds in lymphoma cells. *Pharmacia*. 2023; 71(6): 1263-1273

[Omeragic](https://www.nature.com/articles/s41598-022-11171-2#auth-Elma-Omeragic) E., [Dedic](https://www.nature.com/articles/s41598-022-11171-2#auth-Mirza-Dedic) M., [Elezovic](https://www.nature.com/articles/s41598-022-11171-2#auth-Alisa-Elezovic) A., [Becic](https://www.nature.com/articles/s41598-022-11171-2#auth-Ervina-Becic) E., [Imamovic](https://www.nature.com/articles/s41598-022-11171-2#auth-Belma-Imamovic) B., [Kladar](https://www.nature.com/articles/s41598-022-11171-2#auth-Nebojsa-Kladar) N., [Niksic](https://www.nature.com/articles/s41598-022-11171-2#auth-Haris-Niksic) H. [Application of direct peptide reactivity assay for assessing the skin sensitization potential of essential oils](https://www.nature.com/articles/s41598-022-11171-2). *Scientific Report.* 2022; 12: 1-10.

Imamović, B., Trebše, P., Omeragić, E., Bečić E., Pečet, A., Dedić, M. Stability and Removal of Benzophenone-Type UV Filters from Water Matrices by Advanced Oxidation Processes. Molecules. 2022; 27: 1874.

Bečić E., Dedić M., Imamović B., Omeragić E. Optimization and Validation of Europium-Sensitized Fluorescence Method for Determination of Tetracycline Antibiotics in Water from Fish Farms. *Bull. Chem.Tech. Bosnia and Herzegovina*. 2022; 59:11-16.

Imamović B, Ivazović I., Alispahić A., Bečić E., Dedić M. Assesment of the Suitability of Methods for Testing the Antioxidant Activity of Anti-Aging Creams. *Applied Sciences*. 2021; 11(4):1358.

Dedic M., Gutic S., Gicevic A., Becic E., Imamovic B., Markovic D. A[pplication of membrane filters in determination of the adsorption of tetracycline hydrochloride on graphene oxide](https://scholar.google.com/citations?view_op=view_citation&hl=hr&user=Gl9TUDYAAAAJ&sortby=pubdate&alert_preview_top_rm=2&citation_for_view=Gl9TUDYAAAAJ:g5m5HwL7SMYC). *Pharmacia*. 2020; 67:339.