**NAME AND SURNAME:**

**Belma Imamović**

**Work experience:**

* 2024 Full Professor

Department of Drug Analysis

* 2019 Associate Professor

Department of Drug Analysis

* 2014. Assistant Professor

Department of Pharmaceutical Analysis

* 2009. Senior Assistant

Department of Pharmaceutical Analysis

* 2000. Teaching Assistant

Department of Pharmaceutical Analysis

**Education:**

* 2014.Doctor of Philosophy in Pharmacy (PhD in Pharm.)

Doctoral dissertation: „*Investigation of the occurrence of organic UV filter by-products and their genotoxic and xenoestrogenic effects. "*University of Sarajevo, Faculty of Pharmacy.

* 2008*.* Master of science in Pharmacy (M.Sc. (Pharm.))

*Master thesis:* „*Identification and determination of UV filters and preservatives in sunscreen preparations "*University of Sarajevo, Faculty of Pharmacy

* 2005. Specialization

Specialist in “*Quality control of medicines”*

* 1999*.* Master of Pharmacy *MPharm*

Graduate thesis: *"Simultaneous determination of vitamins C and B1 in syrups"*University of Sarajevo, Faculty of Pharmacy

**Nastavni rad:**

She participates in the practical and theoretical teaching in the Integrated study of the 1st and 2nd cycles in: the compulsory courses "*Quality Control of Medicines* *I*" and " *Quality Control of Medicines* *II*", as well as the elective courses: " "*Selected Topics in Quality Control of Medicines - Good Control Laboratory Practice",* *"Selected Topics in Quality Control of Medicines - Impurities in Medicines" "Selected Topics in Quality Control of Medicines – Quality Control of Borderline Medicinal Products*". She participates as a lecturer in the subject *"Professional Student Practice"* for final year students.

She is involved in the delivery of teaching in the 3rd cycle of studies at the University of Sarajevo - Faculty of Pharmacy in the following courses: the compulsory courses*-"Research Techniques in Pharmacy" and "Ethical Principles and Good Laboratory and Clinical Practice"* and the elective courses*: "Modern Analytical Methods for Identification and Characterization of Impurities and Degradation Products in Drugs", "Instrumental Methods of Protein Analysis and Biopharmaceuticals" and "New Trends in the Extraction of Bioactive Substances and Their Metabolites*".

She participated in the development of the ESCTS-information package for 2015 for integrated studies of the 1st and 2nd cycles, as well as the development of the ESCTS-information package for 2023 for integrated studies of the 1st and 2nd cycles. Mentor of master's theses and supervisor for doctoral students. Since 2021, she has been participating in teaching at the 3rd cycle of studies at the Faculty of Pharmacy at the University of Tuzla in the course: *"Analytical methods in pharmacy".*

**Other academic positions and involments:**

* 2004-2005. Member of the Board of Directors of the Faculty of Pharmacy in Sarajevo
* 2013-2016: Deputy Chairman of the Faculty of Pharmacy Employee Council
* 2014-2017: Member of the Ethics Committee of the Faculty of Pharmacy, University of Sarajevo
* 2019-2024: Member of the UNSA Publishing Council in front of the medical group
* 2019- danas: Professor in charge in the Integrated study of 1st and 2nd cycles on the compulsory course "*Quality Control of Medicines I*" and elective course: "*Selected Topics in Quality Control of Medicines – Impurities in Medicines*"
* 2019-today: Member of the Doctoral Study Council at the University of Sarajevo - Faculty of Pharmacy
* 2019- danas: Professor in charge in the Doctoral studies on the elective course "*Modern analytical methods for the identification and characterization of impurities and degradation products in medicines*
* 2021-2023- Head of Department of Drug Analysis
* 2023: Chairwoman of the Doctoral Study Council of the University of Sarajevo - Faculty of Pharmacy

**Stručne aktivnosti:**

* 2014-danas: Mentor za specijalizacije iz „*Ispitivanja i kontrole lijekova*“ na Univerzitetu u Sarajevu-Farmaceutskom fakultetu, te angažovana kao ispitivač za specijalističke ispite iz „*Ispitivanja i kontrole lijekova*“ pri Federalnom ministarstvu zdravstva BiH.
* 2022-danas: Član Komisije za kozmetiku sa posebnom namjenom ispred Federalnog ministarstva zdravstva BiH
* 2020-danas: predavač i član ispitne Komisije u okviru programa cjeloživotnog učenja: „*Formulab:formulisanje preparata za njegu kože*“ koji se odvija na Univerzitetu Sarajevu-Farmaceutskom fakultetu.

**Training:**

* 2008: Pedagogical education of teachers and associates
* 2015: TRAIN: lifelong learning program in the field of pedagogical education and strengthening lifelong learning competencies at the University of Sarajevo
* 2022: Scientific conference: "Medical cannabis - evidence and controversies"
* 2019: Seminar: "New techniques of the Karl-Fisher method - application in the food, pharmaceutical and thermal energy industry"
* 2022: Seminar: "The importance of nitrosamine impurities in drugs"
* 2023: Seminar: Modern chromatographic solutions for your laboratory"
* 2022: ERASMUS+ staff mobility for training at the Faculty of Chemistry and Food Technology at the Slovaik University of Technology in Bratislava (Slovakia)

**Awards:**

* In 2023, the award for the results of scientific/artistic work for 2022 was awarded by the University of Sarajevo.

**Books:**

1. 2018: E. Bečić, B. Imamović, M. Šober, M. Dedić. Spectroscopic methods in drug analysis – Textbook for practical teaching.. ISBN: 978-9926-8299-0-2. CIP - cataloging in the publication National and University Library of Bosnia and Herzegovina (faculty edition)
2. 2022: Belma Imamović, Ervina Bečić, Mirza Dedić "Chromatographic and volumetric methods in drug analysis - Textbook for practical teaching" ISBN 978-9926-8620-3-9. CIP – cataloging in publications. COBISS number: 53558022. National and University Library of Bosnia and Herzegovina (Faculty Edition)
3. 2024: Belma Imamović, Ervina Bečić, Ognjenka Rahić "Impurities in Medicines" ISBN 978-9958-595-11-0 CIP- Cataloging in Publication. COBISS.BH-ID 59917830 National and University Library of Bosnia and Herzegovina, Sarajevo (university textbook) 2024: Omeragić E, Imamović B, Bečić E, Dedić M, Hashemi F. Modulating the human microbiome: the impact of xenobiotics on gut microbial composition and therapeutic strategies. In : Mohsin Khurshid, Muhammad Sajid Hamid Akash, editors. Human microbiome: techniques, strategies, and therapeutic potential. Springer; 2024.

**Projects:**

**Federal projects:**

1. Associate on the project: "Development of alternative methods for the identification and determination of chlorophenoxy carboxylic acid derivatives". F MONKS

2. Associate on the project: "Testing stereomeric drugs by chromatographic methods". FMO

3. Associate on the project: "Alternative methods for the determination of antibiotic residues in honey". (Project financed by the Federal Ministry of Education and Science,. Project leader.

4. Associate on the project: "Assessment of health risk from heavy metal contamination of children's playground soil in Sarajevo", (Project funded by the Federal Ministry of Health, Education and Science)

**Cantonal projects:**

1. Associate on the project: "Investigation of the presence of polychlorinated biphenyls in the soil of the water catchment area in the territory of the Sarajevo Canton"/. Project financed by the Government of the Sarajevo Canton

2. Associate on the project. “Investigation of the pharmacological effects of topical drugs with antimicrobial and antiseptic effects during and after the permitted period of application” Project funded by the Ministry of Education and Science of the Sarajevo Canton.

3. Associate on the project: “The impact of aerosols of various tobacco products on the health of the individual and the community” funded by the Ministry of Science, Higher Education and Youth of the Sarajevo Canton.

4. Associate on the project: “Orodispersible films of vitamin C: new medicinal preparations for the protection of the children's organism”, funded by the Ministry of Science, Higher Education and Youth of the Sarajevo Canton.

5. Associate on the project: "Maternal Exposure and Child Health: Research on Transplacental Transfer of Pollutants/TOXMOM", funded by the Ministry of Science, Higher Education and Youth of the Sarajevo Canton.

**Bilateral projects:**

1. Project leader: "Stability testing of UV filters in sunscreens and determination of toxic properties of the obtained degradation products". Project between the Republic of Slovenia and Bosnia and Herzegovina.

2. Project associate: "Determination of the content of heavy metals and secondary metabolites in hemp samples (Cannabis sativa L.) collected from areas polluted with heavy metals". Project between the Republic of Slovenia and Bosnia and Herzegovina.

**International projects:**

1. Collaborator on the project: "Interaction between omeprazole and gliclazide in CYP2C19 normal/ ultrarapid metabolisers" (209943/Z/17/Z). (The project is funded by the Wellcome Trust Seed Award in Science)

2. Member of the project team: Erasmus + Project No.: 618089-EPP-12020-1-BA-EPPKA2-CBHE-JP "Innovative Quality Assessment Tools for Pharmacy Studies in Bosnia and Herzegovina/IQPharm".

**Selected publications:**

1. Alisa Elezović, Amar Elezović, Miroslav Hadnađev, Adna Džemat, Emina Hrnčić, **Belma Imamović**, Ervina Bečić, Veljko Krstonošić. [Studies on allantoin topical formulations: in vitro drug release studies and rheological characteristics](https://scholar.google.com/scholar?oi=bibs&cluster=10505398525272944165&btnI=1&hl=hr). Pharmaceutical Development and Technology.2024; 29(9):1033-1041
2. O. Rahić, A.Tucak-Smajić, M. Šahinović, **B. Imamović,** L. Hindija, J. Hadžiabdić and E. Vranić. Correlation between Optical Characteristics of Orodispersible Films with Selected Process Parameters Supported by FTIR Analysis. Kemija u Industriji. 2024; 73(5-6):215-220.
3. Ognjenka Rahić, Sabina Behrem, Amina Tucak-Smajić, Jasmina Hadžiabdić, **Belma Imamović**, Lamija Hindija, Merima Šahinović, Edina Vranić. [Sweeteners in Orodispersible Films: How Much is too Much?](https://www.thieme-connect.com/products/ejournals/html/10.1055/a-2266-2522). Drug research.2024; 3(74):181-186
4. Mirza Dedić, Elma Omeragić, **Belma Imamović**, Esma Bilajac, Lejla Mahmutović, Una Glamočlija, Ervina Bečić. [HPLC method for the determination of thymoquinone in growth cell medium](https://scholar.google.com/scholar?oi=bibs&cluster=6539102968565849500&btnI=1&hl=hr). Technology and Health Care. 2024; 32:2585-2598
5. Ervina Bečić, Mirsada Salihović, Burak Tüzün, Elma Omeragić, **Belma Imamović**, Mirza Dedić, Sunčica Roca, Selma Špirtović-Halilović. [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.
6. E. Bečić, M. Dedić, **B. Imamović**, S. Špirtović-Halilović, and E. Omeragić. Substituent and Solvent Effects on the Spectral Properties of 3-Substituted Derivatives of 4-Hydroxycoumarin. Kemija u Industriji.2024; 73(1-2):1-6
7. Hashemi F., Hoepner L., Soleimani F., Haluza H.D., Abbasi S.A.A, Omeragić E., **Imamović B**. et all. A comprehensive health effects assessment of the use of sanitizers and disinfectants during COVID‑19 pandemic: a global survey. Environmental Science and Pollution Research. 2023; 30(8): 72368-72388
8. [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 Reports. 2022; 12: 1-10
9. **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
10. **Imamović, B**., Ivazović, I., Alispahić, A., Bečić, E., Dedić, M., Dacić, A**.**  Assessment of the Suitability of Methods for Testing the Antioxidant Activity of Anti-Aging Creams. Applied Sciences. 2021;11(4):1358.