**FIRST NAME AND SURNAME: Elma Omeragic (maiden name Makarevic)**

**Work experience:**

* 2022. Associate Professor

Department of Toxicology

* 2018. Assistant professor

Department of Pharmaceutical Analysis

* 2013. Senior teaching and research assistant

Department of Pharmaceutical Analysis

* 2007. Teaching and research assistant

Department of Pharmaceutical Analysis

**Education:**

* 2018. PhD in Pharmacy

***Doctoral disertation:*** *Use of passive sampling systems for polar and semipolar pollutants from Stockholm convention*

*University of Sarajevo, Faculty of Pharmacy*

* 2018. Spec.

Specialist degree in toxicological chemistry

* 2013. MSc in Pharmaceutical sciences

***Master thesis****: The content of polychlorinated biphenyls and organochlorinated pesticides in European date mussel' tissue (Lithophaga lithophaga L., 1875) as an indicator of long-term contamination of the coastal marine area*

*University of Sarajevo, Faculty of Pharmacy*

*Average grade:9,33*

* 2010. Doping control officer (DCO)

*Antidoping agency of Bosnia and Herzegovina*

* 2007. Master of Pharmacy

***Diploma thesis:*** *Application of Qiagen kit in isolation of DNA from saliva*

*University of Sarajevo, Faculty of Pharmacy*

*Average grade:9,25*

**Professional and Scientific Positions:**

* Society of Toxicology, Full Member
* Evidence-based Toxicology Collaboration (EBTC) at Johns Hopkins Bloomberg School of Public Health, Member,
* Society for the Advancement of Adverse Outcome Pathways (SAAOP)
* Genetic Association in Bosnia and Herzegovina/GENuiH, Member,
* Federation of European Toxicologists and European Societies of Toxicology (EUROTOX), Member,
* European Society of Toxicology *In Vitro* (ESTIV), Member,

**Study abroad:**

* 2015. Faculty of Health sciences, University of Ljubljana, Ljubljana, Slovenia (CEEPUS III International summer school “Hazardous Substances”)

**Academic/teaching work:**

*Integrated study of I and II cycle at Faculty of Pharmacy, University of Sarajevo*

* *Subjects:*  Toxicological chemistry I, Toxicological chemistry II, Selected topics in Toxicological chemistry: Misuse of drugs in sport, Selected topics in Toxicological chemistry: Food toxicology and food safety

*(III cycle) Doctoral study at Faculty of Pharmacy, University of Sarajevo*

* *Subjects:*  Alternative Approaches in Toxicity Testing, New Trends in Sample Extraction and Preparation for Pharmaceutical Analysis, Instrumental Methods for the Analysis of Proteins and Biopharmaceuticals, Design and Synthesis of New Pharmacologically Active Compounds, Methodology and Ethics of Scientific Research

**Other academic positions and involments:**

* 2019-Present: Vice Dean for Quality, University of Sarajevo - Faculty of Pharmacy

**Projects:**

* 2024–2025. Ministry of Science, Higher Education and Youth of the Canton of Sarajevo, “Maternal Exposure and Child Health: Research on Transplacental Transfer of Pollutants/TOXMOM”, project leader: Prof. Dr. Elma Omeragić

Researcher on projects:

* 024–2025, Federal Ministry of Education and Science, Scientific and research cooperation between the Republic of Slovenia and Bosnia and Herzegovina, “Determination of the content of heavy metals and secondary metabolites in hemp samples (Cannabis sativa L.) collected from areas contaminated with heavy metals”, Project leader: Prof. Dr. Ervina Bečić
* 2021–2023, Ministry of Science, Higher Education and Youth of the Canton of Sarajevo, “The effects of aerosols of various tobacco products on the health of individuals and the community”, Project leader: Assoc. Prof. Dr. Mirza Dedić
* 2021–2024, Erasmus+ Capacity Building in Higher Education Project, "Innovating quality assessment tools for pharmacy studies in Bosnia and Herzegovina – IQPharm", Project leader: Prof. Dr. Tamer Bego
* 2021–2023, Ministry of Science, Higher Education and Youth of the Canton of Sarajevo, "Secondary metabolites – target molecules in the identification of genetic variability of plant species of the genus Sorbus", Project leader: Prof. Dr. Haris Nikšić
* 2020-2023, Joint Research Centre of the European Commission (JRC), "Modelling the pathogenesis of COVID-19 using the Adverse Outcome Pathway Framework/CIAO", Project leader: Senior Expert Clemens WITTWEHR
* 2020–2021, Ministry of Education, Science and Youth of the Canton of Sarajevo, "Analysis of potential biomarkers in early diagnosis, monitoring of status and outcomes of patients with COVID-19", Project leader: Prof. Dr. Tamer Bego

**Selected publications (up to 10):**

**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 Human Microbiome: Techniques, Strategies, and Therapeutic Potential; Khurshid, M., Akash, M. S. H., Eds.; Springer Nature: Singapore, 2024; pp 587–623. https://doi.org/10.1007/978-981-97-3790-1\_19.

2. 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, No. Preprint, 1–14.

3. Hogberg, H. T.; Tsaioun, K.; Breidenbach, J. D.; Elmore, B.; Filipovska, J.; Garcia-Reyero, N.; Hargreaves, A. J.; Joshi, O.; **Omeragic, E**.; Plant, S.; Ram, R.; Virmani, I.; Waspe, J.; Macmillan, D. S. A Systematic Scoping Review of the Neurological Effects of COVID-19. NeuroToxicology 2024, 103, 16–26. https://doi.org/10.1016/j.neuro.2024.05.003.

4. **Omeragić, E.;** Krais, A. M.; Meseldžić, N.; Bečić, E.; Imamović, B.; Dedić, M.; Kurtalić, L.; Bedak, O.; Prnjavorac, L.; Prnjavorac, B. Per-and Polyfluoroalkyl Substances as a Factor Modulating COVID-19: Preliminary Data. Presented at: Conference of Biochemists and Molecular Biologists in B&H, 18-20.May 2023., Sarajevo, Bosnia and Herzegovina

5. Hashemi, F.; Hoepner, L.; Hamidinejad, F. S.; Haluza, D.; Afrashteh, S.; Abbasi, A.; **Omeragić, E.** et. al. A Comprehensive Health Effects Assessment of the Use of Sanitizers and Disinfectants during COVID-19 Pandemic: A Global Survey. Environmental Science and Pollution Research International 2023, 30 (28), 72368. https://doi.org/10.1007/s11356-023-27197-6.

6. Begić, E.; Aziri, B.; **Omeragić, E.;** Medjedović, E.; Iglica, A.; Stanetić, B.; Kovačević-Preradović, T.; Živanović, Ž.; Begić, A.; Janković, S. Heat-Not-Burn Tobacco Products and Cardiovascular Risk Reduction: A Systematic Review of Randomized Controlled Trials. Technology and Health Care 2023, 31 (4), 1457–1491.

7. Clerbaux, L.-A.; Albertini, M. C.; Amigó, N.; Beronius, A.; Bezemer, G. F. G.; Coecke, S.; Daskalopoulos, E. P.; del Giudice, G.; Greco, D.; Grenga, L.; Mantovani, A.; Muñoz, A.; **Omeragic, E**.; Parissis, N.; Petrillo, M.; Saarimäki, L. A.; Soares, H.; Sullivan, K.; Landesmann, B. Factors Modulating COVID-19: A Mechanistic Understanding Based on the Adverse Outcome Pathway Framework. Journal of Clinical Medicine 2022, 11 (15), 4464. https://doi.org/10.3390/jcm11154464.

8. 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 (6), 1874. https://doi.org/10.3390/molecules27061874.

9. Niksic, H.; Becic, F.; Koric, E.; Gusic, I.; **Omeragic, E**.; Muratovic, S.; Miladinovic, B.; Duric, K. Cytotoxicity Screening of Thymus Vulgaris L. Essential Oil in Brine Shrimp Nauplii and Cancer Cell Lines. Sci Rep 2021, 11 (1), 13178. https://doi.org/10.1038/s41598-021-92679-x.

10. **Omeragic, E.;** Marjanovic, A.; Djedjibegovic, J.; Turalic, A.; Causevic, A.; Niksic, H.; Caklovica, F.; Sober, M. Arsenic, Cadmium, Mercury, and Lead in Date Mussels from the Sarajevo Fish Market (Bosnia and Herzegovina): A Preliminary Study on the Health Risks. Turkish Journal of Veterinary & Animal Sciences 2020, 44 (2), 435–442. https://doi.org/10.3906/vet-1908-13.