**NAME AND SURNAME: Šaćira Mandal**

**Work experience:**

* 2017. Associate Professor in Analytical chemistry I and Analytical chemistry II

Department of Natural Sciences in Pharmacy

* 2012. Assistant Professor in Analytical chemistry I and Analytical chemistry II

Department of Natural Sciences in Pharmacy

* 2009. Senior Assistant in Analytical chemistry I and Analytical chemistry II; Laboratory safety measures

Department of Natural Sciences in Pharmacy

* 2005. Senior Assistant in Analytical chemistry; Inorganic chemistry

Department of Natural Sciences in Pharmacy

* 1997. Assistant in Analytical chemistry; General and Inorganic chemistry

Department of Analytical chemistry

**Education:**

* 2011. PhD

Doctoral dissertaion: “Analysis and determination of the content and type of free fatty acids present in patients with type 2 diabetes mellitus”

University of Sarajevo, Faculty of Science, Department of Chemistry, Sarajevo

* 2003. Mr sc

Master thesis: “Synthesis of fatty acid methyl esters by transesterification method and their separation”

University of Sarajevo, Faculty of Science, Department of Chemistry, Sarajevo

* 1995. Professor in chemistry

Graduate thesis: “A new homogeneous-catalytic kinetic method for the determination of In (III) in solution”

University of Belgrade, Faculty of Science, Department of Chemistry, Priština

**Study abroad:**

* 2013. Programme for cooperation and exchange of academic staff between the University of Sarajevo-BIH and Ondokuz Mayıs University-Turkey within the "Mevlana Programme", visited Faculty of Arts and Sciences, Ondokuz Mayıs University from 17. until December 30., 2013 as a lecturer at the Department of Chemistry - Analytical Chemistry.
* 2014. CEEPUS Programme CIII-HR-0611-03-1314 „Novel diagnostic and therapeutic approaches to complex genetic disorders“, Teacher exchanges visited the Faculty of Pharmacy and Biochemistry, University of Zagreb, from 01. until April 15., 2014 as a lecturer and associate at the Department of Medical Biochemistry and Molecular Biology - Analytical Biochemistry.
* 2015. Programme for cooperation and exchange of academic staff between the University of Sarajevo-BIH and Ondokuz Mayıs University-Turkey within the "Mevlana Programme", visited Faculty of Arts and Sciences, Ondokuz Mayıs University from 23. until May 31., 2015 as a lecturer at the Department of Chemistry - Analytical Chemistry.
* 2018. CEEPUS Programme CIII-SI-0611-07-1718-M-118398 “Novel diagnostic and therapeutic approaches to complex genetic disorders“, International CEEPUS Summer School 2018, visited the Department of Clinical Biochemistry, Faculty of Pharmacy, University of Ljubljana, in the period from 18. until July 23., 2018 Associate Professor in Analytical chemistry.

**Academic/teaching work:**

*Integrated study of 1st and 2nd cycle of Faculty of Pharmacy, University of Sarajevo*

* Graduate courses: Analytical chemistry I and Analytical chemistry II; Selected Topics in Analytical Chemistry-Bioanalytical Chemistry

*III cycle of studies at the Faculty of Pharmacy, University of Sarajevo*

* Courses: Molecular basis of disease; Oxidative stress in disease pathogenesis with reference to biomarkers; Methods for metabolism and drug disposition analysis

**Other academic positions and involments:**

* 2019- today: Head of department of Natural Sciences in Pharmacy
* 2016- today: Member of the Quality Assurance Committee at the Faculty of Pharmacy, University of Sarajevo

**Projects:**

| 2004 | *Pharmacological preclinical and clinical trial of ENCORTEN® ”,* Institute of Pharmacology, Faculty of Medicine, University of Sarajevo, 2004/05 (within FP7 program) Project leader: Prof. Dr Nedžad Mulabegović |
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| 2012 | *Pharmacogenetic factors associated with optimal type 2 diabetes therapy*  Project leader: Prof. Dr Sabina Semiz  Financier: Federal Ministry of Education and Science |
| 2013 | Ceepus“ CIII-HR-0611-03-1314“ -„*Novel diagnostic and therapeutic approaches to complex genetic disorders*  Project leader: Prof. Dr Adlija Čaušević  Financier: Federal Ministry of Education and Science |
| 2013 | *Personalized therapy and prognosis for the development of type 2 diabetes through a European network of scientific teams.*  Project leader: Prof. Dr Sabina Semiz  Financier: Council of Ministers of Bosnia and Herzegovina/Ministry of Civil Affairs, Financing a project for EU-FP7 project preparation |
| 2015 | *Farmakogenomika Tipa 2 dijabetesa.*  Project leader: Prof. dr. Sabina Semiz  Finansijer: Council of Ministers of Bosnia and Herzegovina/Ministry of Civil Affairs, Financing a project for EU-FP7 project preparation |
| 2017 | *Investigation of the pharmacological action of main drugs with antimicrobial and antiseptic activity during and after the permitted period of administration*  Project leader: Prof. Dr Fahir Bečić  Financier: Ministry of Education, Science and Youth of Sarajevo Canton |
| 2017 | *Extraction and determination of antitumor, antioxidant and antimicrobial activity of extracts of flower, leaf and fruit of thorns (Prunus spinosa* L*.) from Bosnia and Herzegovina*  Project leader: Doc.dr.sc. Hurija Džudžević Čančar  Financier: Federal Ministry of Education and Science |
| 2017 | *Chemical composition and antioxidant potential of edible wild mushrooms of Bosnia and Herzegovina*  Project leader: Doc.dr.sc. Mirsada Salihović  Financier: Federal Ministry of Education and Science |
| 2018 | *Determination of the content of macro and microelements in selected samples of wild and farmed representatives of the genus Mentha from Bosnia and Herzegovina*  Project leader: Prof. Dr Šaćira Mandal  Financier: Federal Ministry of Education and Science |

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

* **2019.**

**Š. Mandal,** A. Alispahić, A. Dedić, H. Džudžević-Čančar. „*Spectrophotometric Determination of Magnesium Oxide Content in Supplements of Magnesium*“, Kem. Ind., 68(5-6), 197–200.

**Mandal S.** “*Genes associated with free fatty acid levels and dyslipidemia in Type 2 diabetes patients*”, CMBEBIH International Conference on Medical and Biological Engineering in Bosnia and Herzegovina, IFMBE Proceedings Volume 73, pp 550-560.

**Šaćira Mandal**, Haris Lokvančić, Adlija Čaušević, Sabina Semiz. “*Association of FADS1 gene polymorphism with desaturase activity in type 2 diabetes*“, Genetics & Applications An Aspiring Interdisciplinary Journal of Genetic Research, Volume 3, Number 2, Special edition Book of abstracts, pp 38

* **2018.**

**Mandal Š.,** Čaušević A. „*Correlation between hemoglobin A1c and lipid profile in Bosnian diabetic patients - gender differences*“, Bulletin of the Chemists and Technologists of Bosnia and Herzegovina, 50, 35-42.

* **2017.**

**Šaćira Mandal,** Adlija Čaušević. „*The Correlation between C-Reactive Protein and Regulation of Glycemia in Type-2 Diabetic Patients*“, Bulletin of the Chemists and Technologists of Bosnia and Herzegovina, 48, 5-8.

**Šaćira Mandal,** Nejra Keškić, Naida Marevac. „*The determination of iron levels in Menthae tea (Mentha piperita L.)*“, Bulletin of the Chemists and Technologists of Bosnia and Herzegovina, 48, 21-26.

* **2014.**

**Sacira Mandal**, Adlija Causevic,Besim Prnjavorac, Sabina Semiz. „*Non-esterified fatty acids as possible biomarkers in glucose control of prediabetes and Type 2 diabetes*“, J. Res. Pharm. Sci. Vol.1, No.1, 28-38.

* **2012.**

**Š Mandal**, A Čaušević,M Malenica, Š Hadžidedić, B Prnjavorac and S Semiz. “*Age and gender related differences in free fatty acid levels in patients with type 2 diabetes mellitus*“, Journal of Health Sciences, Journal of the University of Sarajevo Faculty of Health Studies 2012; 2(3):184-191.

* **2010.**

Kulo A, Kusturica J, **Mandal Š**, Mulabegović N. „*Method of pharmacokinetics' analysis of Alpha-adrenocorticotropine 1-13 and methionine-enkephalin combination*“, HealthMED Journal of Society for development of teaching and business processes in new net environment in B&H, Volume 4, Number 4, 873-879.

* **2009.**

Kusturica J, Mulabegović N, Kapić E, Krehić J, **Mandal Š**, Bečić F. *„Pharmacokinetics of Encorten*®“ (*Farmakokinetika Encortena*),HealthMED Journal of Society for development of teaching and business processes in new net environment in B&H, Volume 3, Number 2, 159-165.