

**COMMITTEE FOR PREPARATION OF PROPOSALS FOR APPOINTMENT INTO ACADEMIC TITLE OF
ASSISTANT PROFESSOR FOR SCIENTIFIC FIELD OF "BIOLOGICAL SCIENCES"**

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**KOMISIJA ZA PRIPREMANJE PRIJEDLOGA ZA IZBOR U AKADEMSKO ZVANJE DOCENTA ZA NAUČNU
OBLAST „BIOLOŠKE NAUKE”**

ATTN: TO THE COUNCIL OF FENS

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VIJEĆU FAKULTETA PRIRODNIH I TEHNIČKIH NAUKA

International University of Sarajevo			
PRIMLJENO-ARHIVE 28.02.2024.			
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Pursuant to Article 124, of the Law on Higher Education ("Official Gazette of Sarajevo Canton" 36/22) and based on the Decision of the Council of the Faculty of Engineering and Natural Sciences, number: IUS-FENS 06-634/24, acting in accordance with the submitted Confirmation by the Faculty Secretary No. IUS-FENS-06-597/24 (attached to this Report) the Committee for preparation of proposals for the appointment to academic title of assistant professor for scientific area of Biological Sciences, composed of:

1. **Assoc. Prof. Dr. Altijana Hromić-Jahjefendić**, associate professor at the Faculty of Engineering and Natural Sciences; appointed for scientific field of *Biological Sciences* (Committee Chair),
2. **Asst. Prof. Dr. Muhamed Adilović**, assistant professor at the Faculty of Engineering and Natural Sciences; appointed for scientific field of *Biological Sciences* (Committee Member)
3. **Asst. Prof. Dr. Jasmin Šutković**, assistant professor at the Faculty of Engineering and Natural Sciences; appointed for scientific field of *Biological Sciences* (Committee Member).

Evaluated application of:

Dr. Lejla Mahmutović

for the appointment into position of *Assistant Professor* in the field of *Biological Sciences* upon public vacancy announcement published in newspaper "Nezavisne novine" and web page on February 8, 2024. The above-mentioned application is full and timely submitted and may be subject for further proceeding. The committee submits the following:

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Na osnovu člana 124. Zakona o visokom obrazovanju („Službene novine Kantona Sarajevo“ 36/22), postupajući na osnovu Odluke Vijeća Fakulteta prirodnih i tehničkih nauka, broj: IUS-FENS 06-634/24 i Potvrde sekretara fakulteta, broj: IUS-FENS-06-597/24, koja je sastavni dio ovog izvještaja, Komisija za pripremanje prijedloga za izbor u akademsko zvanje docenta za naučnu oblast „Biološke nauke“, u sastavu:

1. **Vanr. Prof. dr. Altijana Hromić-Jahjefendić**, vanredni profesor na Fakultetu prirodnih i tehničkih nauka Internacionalnog univerziteta u Sarajevu, izabrana za za naučnu oblast „Biološke nauke“ (predsjednik komisije),

2. **Doc. dr. Muhamed Adilović**, docent na Fakultetu prirodnih i tehničkih nauka Internacionalnog univerziteta u Sarajevu, izabran za naučnu oblast „Biološke nauke“(član komisije), i
3. **Doc. dr. Jasmin Šutković**, docent na Fakultetu prirodnih i tehničkih nauka Internacionalnog univerziteta u Sarajevu, izabran za naučnu oblast „Biološke nauke“(član komisije).

Evaluirana aplikacija kandidata:

Dr. Lejla Mahmutović

za izbor u zvanje docenta u naučnoj oblasti „Biološke nauke“ po konkursu za izbor akademskog osoblja objavljenim u dnevnim novinama „Nezavisne novine“ i na web stranici univerziteta od 08.02.2024. godine. Primljena prijava je potpuna i blagovremeno podnesena i može biti predmetom daljnog postupka. Komisija u nastavku podnosi sljedeći:

REPORT / IZVJEŠTAJ

- I. **Applicant's name: Lejla Mahmutović, per application for appointment into academic title of Assistant Professor**
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Kandidat: Lejla Mahmutović, postupajući po prijavi za izbor u zvanje docenta

Biographical data:

Dr. Lejla Mahmutović obtained her PhD degree from International University of Sarajevo, Department of Genetics and Bioengineering in 2021. with the dissertation title "Combinatorial Treatment of Diffuse Large B-Cell Lymphoma with metformin and Novel Therapeutic Candidates". She obtained Master degree (in 2016.) and Bachelor degree (in 2015.) from the International University of Sarajevo. In the period 2021-2023, Dr. Mahmutović obtained the position of assistant at the Department of Genetics and Bioengineering at International University of Sarajevo. Since 2023. Dr. Mahmutović held the position of senior assistant at International University of Sarajevo. Since September 2023 she works as Manager of Research and Development Center at International University of Sarajevo.

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Biografiski podaci:

Dr. Lejla Mahmutović je doktorirala na Internacionalnom univerzitetu u Sarajevu, Odsjek za genetiku i bioinženjeringu 2021. godine sa naslovom disertacije „Kombinatorno liječenje difuznog velikog B-ćelijskog limfoma metforminom i novim terapijskim kandidatima“. Magistrirala je (2016.) i diplomirala (2015.) na Internacionalnom univerzitetu u Sarajevu. U periodu 2021-2023. dr. Mahmutović je stekla zvanje asistenta na studijskom programu Genetika i Bioinžinjering Internacionalnog univerziteta u Sarajevu. Od 2023. godine dr. Mahmutović je na poziciji višeg asistenta na Internacionalnom univerzitetu u Sarajevu. Od septembra 2023. godine radi kao menadžer Centra za istraživanje i razvoj na Internacionalnom univerzitetu u Sarajevu.

A. EDUCATION/OBRAZOVARANJE

Degree/Stepen	Higher Education Institution / Visokoškolska ustanova	GPA / Prosjek ocjena	Year/Godina
Bachelor Degree	International University of Sarajevo, Faculty of Engineering and Natural Sciences, Biological Sciences and Engineering Program	3.81/9.34	2015
Master Degree	International University of Sarajevo, Faculty of Engineering and Natural Sciences, Biological Sciences and Engineering Program	3.57/9.17	2016
PhD Degree	International University of Sarajevo, Faculty of Engineering and Natural Sciences, Department of Genetics and Bioengineering	3.73/9.33	2021

B. LIST OF SCIENTIFIC AND OTHER PUBLICATIONS SUMMITTED IN APPLICATION TO THE VACANCY / PREGLED NAUČNIH I DRUGIH RADOVA DOSTAVLJENIH U PRIJAVI ZA KONKURS

1. Dedic, M., Omeragic, E., Becic, E., Bilajac, E., **Mahmutovic, L.**, Glamoclija, U., Imamovic. B. HPLC method for determination of thymoquinone in growth cell medium. Acta Chemica Slovenica. 10.3233/THC-231432, Technology and Health Care, vol. Pre-press, no. Pre-press, pp. 1-14, 2024, January 2024.
2. Sezer, A., **Mahmutovic, L.**, Akcesme, B. *In silico* study of polyphenols as potential inhibitors of MALT-1 protein in non-Hodgkin lymphoma. Medical Oncology, 41:37. <https://doi.org/10.1007/s12032-023-02261-w>, November 2023.
3. Bilajac E., Glamočlija U., Osmanovic A., **Mahmutovic L.**, Sezer A., Roca S., Spirtovic-Halilovic S., Salihovic M., Hromić-Jahjefendić A., Veljovic E., Analysis of Antitumor Potential of Xanthene Compounds in Lymphoma Cells. Croatica Chemica Acta, 96 (1), 59-68. <https://doi.org/10.5562/cca4007>, August 2023.
4. Bilajac E., **Mahmutovic L.**, Glamočlija U., Osmanovic A., Hromić-Jahjefendić A., Tambuwala M., Suljagic M. Curcumin Decreases Viability and Inhibits Proliferation of Imatinib-Sensitive and Imatinib-Resistant Chronic Myeloid Leukemia Cell Lines. Metabolites, 13(1), 58; <https://doi.org/10.3390/metabo13010058>, January 2023.
5. Bilajac E., **Mahmutovic L.**, Lundstrom K., Glamočlija U., Šutković J., Sezer A., Hromić-Jahjefendić A. Viral Agents as Potential Drivers of Diffuse Large B-Cell Lymphoma Tumorigenesis. Viruses, 14(10):2105, doi: 10.3390/v14102105, September 2022.
6. Glamoclija, U., **Mahmutovic, L.**, Bilajac E., Soljic, V., Vukojevic, K., Suljagic M. Metformin and Thymoquinone Synergistically Inhibit Proliferation of Imatinib-Resistant Human Leukemic Cells. Frontiers in Pharmacology, 13:867133, April 2022.

7. Kumasin, A., **Mahmutovic, L.**, Hromic-Jahjefendic, A. Testing temperature and pH stability of the catalase enzyme in the presence of inhibitor. Periodicals of Engineering and Natural Sciences, 10 (2), 18-29, February 2022.
8. Pleh, A., **Mahmutovic, L.**, Hromic-Jahjefendic, A. Evaluation of phytochemical antioxidant levels by hydrogen peroxide scavenging assay. Bioengineering Studies, vol.2, No. 1, pp. 1-10, June 2021.
9. **Mahmutović L.**, Bilajac E., Hromić-Jahjefendić A. Meet the Insidious Players: Review of Viral Infections in Head and Neck Cancer Etiology with an Update on Clinical Trials. Microorganisms, 9 (5), 1001, May 2021.
10. Adilovic A., **Mahmutović L.**, Huseinbegović E., Suljagic M. Characterization of solvents and optimization of stability and solubility of bioactive compounds used in lymphoma cell culture treatments. Periodicals of Engineering and Natural Sciences, 8 (4), 2553-2563, December 2020.
11. Sutkovic J., **Mahmutovic L.**, Huseinbegovic E., Adilovic M., Sinanovic F., Akcesme Berat F. Ethical, legal and social implications of genetically modified organism in the shadow of advanced genetic tools. Periodicals of Engineering and Natural Sciences, 8 (4), 2118-2128, October 2020.
12. **Mahmutovic, L.**, Bego, T., Sterner, M., Gremsperger, G., Ahlqvist, E., Velija Asimi, Z., Prnjavorac, B., Hamad, N., Causeciv, A., Groop, L., Semiz, S. Association of IRS1 genetic variants with glucose control and insulin resistance in type 2 diabetic patients from Bosnia and Herzegovina. Drug Metabolism and Personalized Therapy, 34(1), 38-41, March 2019.
13. **Mahmutovic, L.**, Akcesme, B., Durakovic, C., Akcesme, F., Maric, A., Adilovic, M., Hamad, N., Wjst, M., Feeney, O. and Semiz, S. Perceptions of students in health and molecular life sciences regarding pharmacogenomics and personalized medicine. Human Genomics, 12(1) Nov. 2018.
14. **Mahmutovic, L.** The Gut-Brain Axis in Foetal-Maternal Relationship. Southeast Europe Journal of Soft Computing, 7(1) March 2018.
15. **Halilovic, L.**, Bego, T., Causevic, A., Hamad, N., Velija Asimi Z., Semiz, S. Association of IRS1 Genetic Variation with Type 2 Diabetes and Insulin Resistance in Patients from Bosnia and Herzegovina, The FEBS Journal, 283 (S1), Sept. 2016.
16. Hamad, N., Bego, T., Causevic, A., **Halilovic, L.**, Velija Asimi Z., Semiz, S., Effects of ADRA2A genetic variants on Type 2 diabetes-related traits, The FEBS Journal, 283 (S1), Sept. 2016.

C. INTRODUCTORY LECTURE / PRISTUPNO PREDAVANJE

Dr. Lejla Mahmutović does not need to deliver introductory lecture since she participated in the implementation of the teaching process at the higher education institution.

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Dr. Lejla Mahmutović nije obavezna održati pristupno predavanje obzirom da je sudjelovala u realizaciji nastavnog procesa na visokoškolskoj ustanovi.

PROPOSAL AND RATIONALE / PRIJEDLOG I OBRAZLOŽENJE

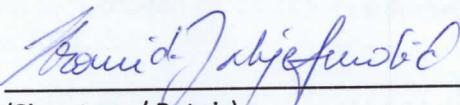
According to the evaluation of candidate who applied to vacancy for appointment of academic staff to the academic title of assistant professor for the scientific field of "Biological Sciences" at the Faculty Engineering and Natural Sciences, dated February 8, 2024, and in accordance with the Law on Higher Education of Sarajevo Canton ("Official Gazette of Sarajevo Canton" No: 36/22), we are proposing to the Council of the Faculty of Engineering and Natural Sciences to appoint Dr. LEJLA MAHMUTOVIĆ to the academic title of ASSISTANT PROFESSOR in the scientific field of "Biological Sciences", at the Faculty of Engineering and Natural Sciences of the International University of Sarajevo, as the best evaluated candidate on the vacancy.

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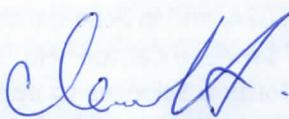
Prema izvršenoj evaluaciji kandidata prijavljenog na konkurs za izbor u akademsko zvanje "docent" za naučnu oblast "Biološke nauke" na Fakultetu prirodnih i tehničkih nauka od 08.02.2024. godine, u skladu sa odredbama Zakona o visokom obrazovanju Kantona Sarajevo ("Službene novine Kantona Sarajevo" br: 36/22) i internim aktima IUS-a, predlažemo Vijeću Fakulteta prirodnih i tehničkih nauka Internacionalnog univerziteta u Sarajevu da se dr. LEJLA MAHMUTOVIĆ izabere za nastavnika u naučnonastavnom zvanju DOCENT za naučnu oblast "Biološke nauke", na Fakultetu prirodnih i tehničkih nauka Internacionalnog univerziteta u Sarajevu.

COMMITTEE / KOMISIJA

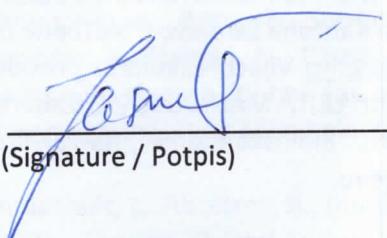
1. **Vanr. Prof. dr. Altijana Hromić-Jahjefendić (chair/predsjednik)**


(Signature / Potpis)

2. **Doc. dr Muhamed Adilović (member/član)**


(Signature / Potpis)

3. **Doc. dr Jasmin Šutković (member/član)**


(Signature / Potpis)