



INTERNATIONAL UNIVERSITY OF SARAJEVO
INTERNACIONALNI UNIVERZITET U SARAJEVU

INTERNATIONAL UNIVERSITY OF SARAJEVO			
PROPOSAL NO. 26.12.2025.			
OP. JED.	KL. OZ.	KL. B.	D. PR.
17.		3533-1/25	

COMMITTEE FOR PREPARATION OF PROPOSAL FOR APPOINTMENT INTO THE SCIENTIFIC-TEACHING TITLE OF ASSISTANT PROFESSOR FOR THE SCIENTIFIC AREA OF "MEDICAL AND HEALTH SCIENCES", SCIENTIFIC FIELD OF "GENERAL MEDICINE", SCIENTIFIC BRANCHES: "MEDICAL CHEMISTRY AND BIOCHEMISTRY" AND "MEDICAL BIOLOGY WITH GENETICS"/KOMISIJA ZA PRIPREMANJE PRIJEDLOGA ZA IZBOR AKADEMSKOG OSOBLJA U NAUČNONASTAVNO ZVANJE DOCENTA ZA NAUČNU OBLAST "MEDICINSKE I ZDRAVSTVENE NAUKE", NAUČNO POLJE "OPŠTA MEDICINA", NAUČNE GRANE: „MEDICINSKA HEMIJA I BIOHEMIJA“ I „MEDICINSKA BIOLOGIJA SA GENETIKOM“.

**TO THE FACULTY COUNCIL OF THE FACULTY OF MEDICAL SCIENCES/
VIJEĆU FAKULTETA MEDICINSKIH NAUKA**

Pursuant the Article 121 of the Law on Higher Education ("Official Gazette of Sarajevo Canton", No.: 36/22 and 28/25), Article 141 of the Statute of IUS – revised text, no. IUS-SENAT-11-3326/24 dated October 22nd, 2024, and Proposal of the Faculty Council, no. IUS-FMS-17-3159/25 dated October 28th, 2025, upon the consent provided by the Senate of the International University of Sarajevo, no. IUS-SENAT-11-3276/25 dated November 7th, 2025, the Faculty of Medical Sciences published the announcement for the appointment of one professor (Assistant Professor) for the scientific area of "Medical and Health Sciences", the scientific field "General Medicine", scientific branches: "Medical Chemistry and Biochemistry" and "Medical Biology with Genetics".

Na osnovu člana 121. Zakona o visokom obrazovanju Kantona Sarajevo ("Službene novine Kantona Sarajevo", broj: 36/22 i 28/25), člana 141. Statuta Internacionalnog univerziteta u Sarajevu – prečišćen tekst, broj: IUS-SENAT-11-3326/24 od 22.10.2024. godine, te prijedloga Vijeća Fakulteta medicinskih nauka, broj: IUS-FMS-17-3159/25 od 28.10.2025. godine i Saglasnosti Senata, broj: IUS-SENAT-11-3276/25 od 07.11.2025. godine, raspisan je Konkurs za izbor akademskog osoblja u naučnonastavno zvanje docenta za naučnu oblast „Medicinske i zdravstvene nauke“, naučno polje „Opšta medicina“, naučne grane: „Medicinska hemija i biohemija“ i „Medicinska biologija sa genetikom“ za jednog izvršioca.

Pursuant the Article 124 paragraph (1) of the Law on Higher Education, the Council of the Faculty of Medical Sciences, by the Decision, No. IUS-FMS-17-3533/25 dated December 5th, 2025, appointed the following professors as the members of the Committee for

preparation of the proposal for appointment into the scientific-teaching title of Assistant Professor for the scientific area of "Medical and Health Sciences", the scientific field "General Medicine", scientific branches: "Medical Chemistry and Biochemistry" and "Medical Biology with Genetics":

Na osnovu člana 124. stav (1) Zakona o visokom obrazovanju, Vijeće Fakulteta medicinskih nauka je Odlukom, broj: IUS-FMS-17-3533/25 od 05.12.2025. godine, imenovalo Komisiju za pripremanje prijedloga za izbor člana akademskog osoblja u naučnonastavno zvanje docenta za naučnu oblast „Medicinske i zdravstvene nauke“, naučno polje „Opšta medicina“, naučne grane: „Medicinska hemija i biohemija“ i „Medicinska biologija sa genetikom“ za jednog izvršioca, u sljedećem sastavu:

1. **Dr. Jasmin Mušanović**, Full Professor appointed in the scientific field "Medical Biology with Human Genetics" at the Faculty of Medicine, University of Sarajevo (Chair)/**Dr. Jasmin Mušanović**, redovni profesor izabran za naučnu oblast "Medicinska biologija sa humanom genetikom" na Medicinskom fakultetu Univerziteta u Sarajevu (predsjednik);
2. **Dr. Emina Kiseljaković**, Full Professor appointed in the scientific field "Medical Biochemistry" at the Faculty of Medicine, University of Sarajevo (Member)/**Dr. Emina Kiseljaković**, redovna profesorica izabrana za naučnu oblast "Medicinska biohemija" na Medicinskom fakultetu Univerziteta u Sarajevu (član);
3. **Dr. Altijana Hromić-Jahjefendić**, Associate Professor appointed in the scientific branches "Bioengineering" and "Biotechnology" at the Faculty of Engineering and Natural Sciences of the International University of Sarajevo (Member)/**Dr. Altijana Hromić-Jahjefendić**, vanredna profesorica izabrana za naučne grane „Bioinženjering i „Biotehnologija“ na Fakultetu prirodnih i tehničkih nauka Internacionalnog univerziteta u Sarajevu (Member).

In accordance with all said above, the Committee hereby submits the following:

Shodno svemu navedenom, Komisija podnosi sljedeći:

REPORT/IZVJEŠTAJ

The following candidates applied for the vacancy announcement for the appointment of one Assistant Professor for the scientific area of "Medical and Health Sciences", the scientific field "General Medicine", scientific branches: "Medical Chemistry and Biochemistry" and "Medical Biology with Genetics", that was published on November 12th, 2025 in the newspaper "Nezavisne novine" and on the IUS website:

Na konkurs objavljen 12.11.2025. godine u dnevnom listu "Nezavisne novine" i na web stranici IUS-a, za izbor akademskog osoblja u naučno-nastavno zvanje docenta za naučnu oblast „Medicinske i zdravstvene nauke“, naučno polje „Opšta medicina“, naučne grane: „Medicinska hemija i biohemija“ i „Medicinska biologija sa genetikom“, u propisanom konkursnom roku prijavile su se dvije kandidatkinje:

1. Dr. Irma Mahmuljin
2. Dr. Adna Sijerčić - Maksimović

The Committee thoroughly reviewed the candidates' application. The submitted scientific works and academic achievements are presented in detail in the following section of this document.

Komisija je izvršila detaljan pregled prijave kandidatkinja. Priloženi naučni radovi i akademska postignuća detaljano su prikazani u narednom dijelu izvještaja.

1. APPLICANT/KANDIDAT: DR. IRMA MAHMULJIN

PER APPLICATION FOR APPOINTMENT INTO THE TITLE OF ASSISTANT PROFESSOR
PO PRIJAVI ZA IZBOR U ZVANJE DOCENTA

A. BIOGRAPHICAL INFORMATION AND ACADEMIC DEGREE OF THE CANDIDATE *BIOGRAFSKI PODACI I PODACI O NAUČNOM STEPENU KANDIDATA*

Dr. Irma Mahmuljin is a PhD in Natural Sciences – Biology with expertise in Biochemistry, Molecular Biology, and Genetics, and extensive experience in laboratory diagnostics and research project management. She completed her PhD at the Faculty of Science, University of Zagreb, with a dissertation entitled “Anti-glycan antibodies and IgG glycosylation in colorectal cancer.” She earned her undergraduate degree in Biology at the Faculty of Science, University of Sarajevo, which has been verified and recognized as equivalent to a Master’s degree at the University of Zagreb. Dr. Mahmuljin has held several leadership and specialist positions in laboratory diagnostics, including Head of the Department of Laboratory Diagnostics at the Polyclinic and Day Hospital “Dr. Al-Tawil,” and the Molecular Analysis Laboratory at the “NALAZ” Institute. In her work, she has implemented new laboratory methods, managed laboratory information systems and accreditation, coordinated teams, and led international projects such as UEFA SYNLAB. She also served as a Senior Assistant at the International Burch University, teaching courses in Cell Biology, Genetics, Immunology, and Systems Physiology, while mentoring students on research and final projects. Her research interests include Glycobiology, Cancer Biology, and Immunology, and she has been actively involved in EU-funded international scientific projects. Dr. Mahmuljin has published numerous articles in recognized journals, contributed chapters to books, and presented at international conferences. She is highly skilled in laboratory techniques, including PCR, NGS, Western blot, HPLC, mass spectrometry, and serological analyses. She speaks English, Spanish, French, and Turkish, with Bosnian as her native language, and is an active member and president of the Biologists’ Association of Bosnia and Herzegovina and the Biochemists and Molecular Biologists Association of Bosnia and Herzegovina.

Dr. Irma Mahmuljin je doktorica bioloških nauka sa ekspertizom u biohemiji, molekularnoj biologiji i genetici i sa bogatim iskustvom u laboratorijskoj dijagnostici i vođenju istraživačkih projekata. Doktorski studij završila je na Prirodoslovno-matematičkom fakultetu Sveučilišta u Zagrebu sa disertacijom na temu: „Protuglikanska protutijela i glikozilacija imunoglobulina G u raku debeloga crijeva“. Diplomirala je biologiju na Prirodno-matematičkom fakultetu Univerziteta u Sarajevu, a stečena diploma je verificirana i priznata kao ekvivalent magistarskom stepenu na Sveučilištu u Zagrebu. dok je diplomski studij biologije završila na Prirodno-matematičkom fakultetu Univerziteta u Sarajevu. Dr. Mahmuljin je radila na više rukovodnih i stručnih pozicija u laboratorijskoj dijagnostici, uključujući vođenje Odjela laboratorijske dijagnostike u Poliklinici i dnevnoj bolnici „Dr. Al-Tawil“, te Laboratorija za molekularne analize pri Zavodu „NALAZ“. U svom radu implementirala je nove laboratorijske metode, upravljala laboratorijskim informacionim sistemima i akreditacijom, koordinirala timove i upravljala međunarodnim projektima poput UEFA SYNLAB. Također, bila je viši asistent na Internacionalnom Burč univerzitetu, gdje je predavala predmete iz oblasti ćelijske biologije, genetike, imunologije i sistemske fiziologije, te mentorirala studentske istraživačke i završne radove. Njena istraživačka područja uključuju glikobiologiju, biologiju raka i imunologiju, a aktivna je i u međunarodnim naučnim projektima financiranim od EU. Objavila je brojne radove u priznatim časopisima, poglavlja u knjigama i prezentacije na međunarodnim konferencijama. Dr. Mahmuljin je također iskusna u laboratorijskim tehnikama, uključujući PCR, NGS, Western blot, HPLC, masenu spektrometriju i serološke analize. Govori engleski, španski, francuski i turski jezik, a maternji joj je bosanski. Aktivna je članica i predsjednica Udruženja biologa u BiH i Udruženja biohemičara i molekularnih biologa u BiH.

B. EDUCATION/OBRAZOVANJE

Degree/Stepen	Higher Education Institution/Visokoškolska ustanova	Year/Godina
PhD	University of Zagreb, Faculty of Science, Department of Biology/Sveučilište u Zagrebu, Prirodoslovno-matematički fakultet, Odsjek za Biologiju, Doktorski studij biologije	2015
Bachelor and Master's Degree	University of Sarajevo, Faculty of Science, Department of Biology/Univerzitet u Sarajevu, Prirodno-matematički fakultet, Odsjek za biologiju, opći smjer	2008

C. LIST OF SCIENTIFIC AND OTHER PUBLICATIONS

PREGLED NAUČNIH I DRUGIH RADOVA

C.1. Book Chapters / *Poglavlja u knjigama*

1. Altijana Hromić-Jahjefendić, Abas Sezer, Irma Mahmuljin, *Chapter Eight - The Impact of COVID-19 on Autoimmune Diseases*, Progress in Molecular Biology and Translational Science, Academic Press, Volume 213, 2025, Pages 315-345, ISSN 1877-1173, ISBN 9780443238321, <https://doi.org/10.1016/bs.pmbts.2025.01.007>

C.2. Journal Papers / *Radovi objavljeni u naučnim časopisima*

1. Hukić M, Avdihodžić H, Kurolt IC, Markotić A, Hanjalić J, Kapur-Pojškić L, **Mahmuljin I**, Avdić M, Salimović-Bešić I, Smajlović-Skenderagić L. (2020) *A Novel Flavivirus Strain Detected in Phlebotomine Sandflies in Bosnia and Herzegovina*. MED GLAS (Zenica), 17(2):301-307. DOI: 10.17392/1212-20.
2. Mujezinović N, **Mahmuljin I** (2016) *Determination of Living Organisms on Stone Walls of the Architectural Heritage Buildings in Southern Herzegovina (Stolac, Počitelj, Hutovo)*. Technoscience, 1(1), April 2016.
3. Horvat T, Deželjin M, Redžić I, Barišić D, Herak-Bosnar M, Lauc G, Zoldoš V. (2013) *Reversibility of Membrane N-Glycome of HeLa Cells upon Treatment with Epigenetic Inhibitors*. PLOS ONE, 8(1):e54672. DOI:10.1371/journal.pone.0054672.
4. Thanabalasingham G, Huffman JE, Kattla JJ, Novokmet M, Rudan I, Gloyn AL, Hayward C, Adamczyk B, Reynolds RM, Muzinic A, Hassanali N, Pucic M, Bennett AJ, Essafi A, Polasek O, Mughal SA, **Redžić I**, Primorac D, Zgaga L, Kolcic I, Hansen T, Gasperikova D, Tjora E, Strachan MW, Nielsen T, Stanik J, Klimes I, Pedersen OB, Njolstad PR, Wild SH, Gyllensten U, Gornik O, Wilson JF, Hastie ND, Campbell H, McCarthy MI, Rudd PM, Owen KR, Lauc G, Wright AF. (2013) *Mutations in HNF1A Result in Marked Alterations of Plasma Glycan Profile*. Diabetes, 62(4):1329-1337. DOI: 10.2337/db12-0880.
5. Novokmet M, Pučić M, **Redžić I**, Muzinić A, Gornik O. (2012) *Robustness Testing of the High Throughput HPLC-Based Analysis of Plasma N-Glycans*. Biochim Biophys Acta, 1820(9):1399-1404. DOI: 10.1016/j.bbagen.2012.01.002.
6. Huffman JE, Knezevic A, Vitart V, Kattla J, Adamczyk B, Novokmet M, Igl W, Pucic M, Zgaga L, Johansson Å, **Redžić I**, Gornik O, Zemunik T, Polasek O, Kolcic I, Pehlic M, Koeleman CA, Campbell S, Wild SH, Hastie ND, Campbell H, Gyllensten U, Wuhrer M, Wilson JF, Hayward C, Rudan I, Rudd PM, Wright AF, Lauc G. (2011) *Polymorphisms in B3GAT1, SLC9A9 and MGAT5 Are Associated with Variation within the Human Plasma N-Glycome of 3533 European Adults*. Hum Mol Genet, 20(24):5000-5011. DOI: 10.1093/hmg/ddr414.
7. Pucic M, Knezević A, Vidic J, Adamczyk B, Polašek O, Gornik O, Novokmet M, Šupraha-Goreta S, Wormald MR, **Redžić I**, Campbell H, Wright A, Hastie ND, Wilson JF, Rudan I, Wuhrer M, Rudd PM, Josić D, Lauc G. (2011) *High Throughput Isolation*

and Glycosylation Analysis of IgG – Variability and Heritability of the IgG Glycome in Three Isolated Human Populations. Mol Cell Proteomics, 10(10):M111.010090. DOI: 10.1074/mcp.M111.010090.

8. Lauc G, Essafi A, Huffman JE, Hayward C, Knežević A, Kattla JJ, Polašek O, Gornik O, Vitart V, Abrahams JL, Pučić M, Novokmet M, **Redžić I**, Campbell S, Wild SH, Borovečki F, Wang W, Kolčić I, Zgaga L, Gyllensten U, Wilson JF, Wright AF, Hastie ND, Campbell H, Rudd PM, Rudan I. (2010) *Genomics Meets Glycomics – The First GWAS Study of Human N-Glycome Identifies HNF1A as a Master Regulator of Plasma Protein Fucosylation.* PLoS Genet, 6(12):e1001256. DOI: 10.1371/journal.pgen.1001256.

C.3. Conference Papers / *Radovi objavljeni u zbornicima sa konferencija*

1. Zoldoš V, Biruš I, **Redžić I**, Muratović E, Šatović Z, Bečeheli I, Robin O, Pustahija F, Bogunić F, Vičić V, et al. (2012) *Putative Progenitor and Derivative Populations of Endemic Liliun bosniacum: Adaptation to Serpentine Soil as a Key Isolating Factor.* 3rd Congress of Croatian Geneticists with International Participation – Book of Abstracts, p.120.
2. Pučić M, Knežević A, Vidič J, Adamczyk B, Polašek O, Gornik O, Novokmet M, Šupraha-Goreta S, Wormald MR, **Redžić I**, et al. (2011) *High Throughput Isolation and Glycosylation Analysis of IgG – Variability and Heritability of the IgG Glycome in Three Isolated Human Populations.* 16th International Summer School on Immunology, Hvar, Croatia.
3. Pučić M, Knežević A, Vidič J, Adamczyk B, Polašek O, Novokmet M, Gornik O, Šupraha-Goreta S, Wormald M, **Redžić I**, Campbell H, Wright A, Hastie N, Wilson JF, Rudan I, Wuhler M, Rudd P, Josić Đ, Lauc G. (2011) *High Throughput Isolation and Glycosylation Analysis of IgG – Variability and Heritability of the IgG in Two Isolated Populations.* Glyco21, Vienna, Austria.
4. Redžić I, Gornik O, Shilova N, Kračun SK, Chen K, Bovin N, Blixt O, Campbell H, Lauc G. (2011) *Anti-Glycan Antibodies in Plasma of Patients with Colorectal Cancer.* Glyco21, Vienna, Austria.
5. Pucic M, Gornik O, Knežević A, **Redžić I**, Wagner J, Lauc G. (2009) *Temporal Stability of Individual Human Plasma N-Glycan Profiles.* 2009 Annual Conference of the Society for Glycobiology, San Diego, USA.
6. Gornik O, Knežević A, Pucic M, **Redžić I**, Wagner J, Lauc G. (2009) *Stability of N-Glycan Profiles in Human Plasma.* EMBO Young Scientists Forum, Zagreb, Croatia.
7. Gornik O, Knežević A, Pucic M, **Redžić I**, Wagner J, Lauc G. (2009) *Stability of N-Glycan Profiles in Human Plasma.* Sixth ISABS Conference on Human Genome Project Based Applications in Forensic Science, Anthropology and Individualized Medicine, Split, Croatia.
8. Rudan I, Hayward C, Essafi A, Huffman JE, Knežević A, Polašek O, Gornik O, Vitart V, Zgaga L, Pucic M, **Redžić I**, et al. (2009) *Genome-Wide Association Study Identifies*

Loci Involved in Regulation of Human Plasma N-Glycome. American Society of Human Genetics, 59th Annual Meeting, Honolulu, Hawaii.

D. INTRODUCTORY LECTURE

PRISTUPNO PREDAVANJE

Dr. Irma Mahmuljin gave introductory lecture on title "Biochemical Markers in Disease Diagnosis and Monitoring" in front of the Committee and visitors on 18.12.2025. in period from 13:00-13:30 in the premises of IUS (Conference room A G.15). Considering candidate's abilities in successful English communication, the capacity to engage students, and her knowledge on the selected topic, the Committee concluded that Irma Mahmuljin delivered the lecture excellently./*Dr. Irma Mahmuljin je održala uvodno predavanje na temu "Biohemijski markeri u dijagnostici i praćenju bolesti" pred Komisijom i posjetiocima 18.12.2025. godine periodu od 13:00 do 13:30 u prostorijama IUS-a (Konferencijska sala A G.15). Uzimajući u obzir sposobnost kandidatkinje u uspješnoj komunikaciji na engleskom jeziku, sposobnost da angažuje studente, kao i njeno znanje o odabranoj temi, Komisija je zaključila da je Dr. Irma Mahmuljin predavanje izvela odlično.*

2. APPLICANT/KANDIDAT: DR. ADNA SIJERČIĆ – MAKSIMOVIĆ

PER APPLICATION FOR APPOINTMENT INTO THE TITLE OF ASSISTANT PROFESSOR

PO PRIJAVI ZA IZBOR U ZVANJE DOCENTA

A. BIOGRAPHICAL INFORMATION AND ACADEMIC DEGREE OF THE CANDIDATE

BIOGRAFSKI PODACI I PODACI O NAUČNOM STEPENU KANDIDATA

Dr. Adna Sijerčić-Maksimović is a PhD in Genetics and Bioengineering. She was born and resides in Sarajevo, Bosnia and Herzegovina. She was born and resides in Sarajevo, Bosnia and Herzegovina. She completed her PhD studies in Genetics and Bioengineering at the International Burch University, where she had previously earned a Master's degree in Genetics and Anthropology, as well as a Bachelor's degree in Genetics and Bioengineering. During her academic engagement at the International Burch University, she was employed as a laboratory demonstrator and coordinator, participating in practical teaching and working closely with students at the Department of Genetics and Bioengineering. She was also a member of the editorial team of *Burch Gene Magazine*. She has experience in scientific communication, project management, and content administration. She worked as a consultant and scientific curator at Olawell, where she was responsible for the professional review and selection of scientific papers. She has participated in activities of organizations and initiatives in the fields of education, science, and health, including involvement in the BOSEPO Olympiad, the National Museum of Bosnia and Herzegovina, and the initiative "Znanjem do zdravlja". From 2024 to 2025, she

was engaged with the Bosnian-Herzegovinian American Academy of Arts and Sciences (BHAAAS) as a professional and technical associate, including project management, administration, website and social media management, and support in organizing scientific and educational activities. Dr. Sijerčić-Maksimović has participated in domestic and international scientific conferences as a presenter and attendee and is a co-author of conference papers in the fields of biomedicine and the application of modern technologies in healthcare. She speaks English at an advanced level (C1) and is a native speaker of Bosnian/Croatian/Serbian. She has extensive experience in project management, organizing scientific activities, and working in interdisciplinary teams.

Dr. Adna Sijerčić-Maksimović je doktorica nauka iz oblasti genetike i bioinženjeringa. Rođena je i živi u Sarajevu, Bosna i Hercegovina. Doktorski studij genetike i bioinženjeringa završila je na Internacionalnom Burč univerzitetu, gdje je prethodno stekla zvanje magistra genetike i antropologije, kao i diplomu iz genetike i bioinženjeringa. Tokom akademskog angažmana na Internacionalnom Burč univerzitetu bila je zaposlena kao laboratorijska demonstratorica i koordinatorica, te je učestvovala u izvođenju praktične nastave i radu sa studentima na Odsjeku za genetiku i bioinženjering. Također je bila članica uredničkog tima Burch Gene Magazine. Posjeduje iskustvo u naučnoj komunikaciji, projektnom radu i upravljanju sadržajem. Radila je kao konsultantica i kustosica naučnih sadržaja u kompaniji Olawell, gdje je bila zadužena za stručnu obradu i selekciju naučnih radova. Učestvovala je u radu organizacija i inicijativa iz oblasti obrazovanja, nauke i zdravstva, uključujući angažmane u okviru BOSEPO olimpijade, Zemaljskog muzeja Bosne i Hercegovine i inicijative „Znanjem do zdravlja“. Od 2024. do 2025. godine bila je angažovana u Bosansko-hercegovačko-američkoj akademiji nauka i umjetnosti (BHAAAS) kao profesionalna i tehnička saradnica, uključujući upravljanje projektima, administraciju, web-stranice i društvene kanale, te podršku u organizaciji naučnih i edukativnih aktivnosti. Dr. Sijerčić-Maksimović je učestvovala na domaćim i međunarodnim naučnim konferencijama kao izlagačica i učesnica, te je koautorica konferencijskih radova iz oblasti biomedicine i primjene savremenih tehnologija u zdravstvu. Govori engleski jezik na naprednom nivou (C1), a bosanski/hrvatski/srpski joj je maternji jezik. Posjeduje iskustvo u projektnom upravljanju, organizaciji naučnih aktivnosti i radu u interdisciplinarnim timovima.

B. EDUCATION/OBRAZOVANJE

Degree/Stepen	Higher Education Institution/Visokoškolska ustanova	Year/Godina
PhD	International Burch University, Faculty of Engineering and Natural Sciences, Department of Genetics and Bioengineering/Internacionalni Burč univerzitet, Fakultet za inženjering i prirodne nauke, Odsjek za genetiku i	2023

	<i>bioinženjering</i>	
Masters Degree	International Burch University, Faculty of Engineering and Natural Sciences, Department of Genetics and Bioengineering/ <i>Internacionalni Burč univerzitet, Fakultet za inženjering i prirodne nauke, Odsjek za genetiku i bioinženjering</i>	2020
Bachelor Degree	International Burch University, Faculty of Engineering and Natural Sciences, Department of Genetics and Bioengineering/ <i>Internacionalni Burč univerzitet, Fakultet za inženjering i prirodne nauke, Odsjek za genetiku i bioinženjering</i>	2017

C. LIST OF SCIENTIFIC AND OTHER PUBLICATIONS

PREGLED NAUČNIH I DRUGIH RADOVA

C.1. Journal Papers / *Radovi objavljeni u naučnim časopisima*

1. **Sijerčić, A.**, Jassin, Z., Avdić, M. (2019). *Effect of Food Coloring Dyes on Bacterial Growth*. Int. J. Innov. Sci. Res. Technol, 4, 676-679.
2. Boone, A.H., Kovačić Dž., Latinović D., Čustović A., **Sijerčić A.** (2020). *Re-examination of An Integrative Treatment Approach for SARS-CoV-2*. Int. J. Innov. Sci. Res. Technol., 5.
3. Boone, H. A., Medunjanin, D., **Sijerčić, A.** (2020). *Review on potential of phytotherapeutics in fight against COVID-19*. Int. J. Innov. Sci. Res. Technol, 5, 481-491.
4. **Sijerčić. A.**, Tahirović, E. (2020). *Smart Devices for Detection of Atrial Fibrillation – Literature Review*. Int. J. Innov. Sci. Res. Technol., 5.
5. Katalani, C., Booneh, H. A., Hajizade, A., **Sijercic. A.**, Ahmadian, G. (2020). *CRISPR-based diagnosis of infectious and noninfectious diseases*. Biological Procedures Online, 22(1), 1-14.
6. Mario Odak, **Adna Sijerčić** (2021). *A Study into how Covid-19 changed the public opinion of homeschooling*. Journal of Education and Humanities, 4(1), 44-63.
7. Tahirović, E., Kulić, M., **Sijerčić. A.**, Avdić, M., Latinović, D., Granov, N., Evens, S. (2021). *The use of a photoplethysmography-deriving smartphone app to screen for atrial fibrillation in primary stroke prevention during the COVID pandemic*. European Stroke Journal, 436-436.
8. **Sijerčić. A.**, Tahirović, E. (2022). *Photoplethysmography-Based Smart Devices for Detection of Atrial Fibrillation*. Texas Heart Institute Journal, 49(5), e217564.
9. Tahirović, E, **Sijerčić. A.**, Granov, N., Kulić, M., Latinović, D., & Naser, N. (2022).

Smartphone-Based Screening for Atrial Fibrillation – Experiences from Bosnia and Herzegovina. Journal of Atrial Fibrillation, 15(4), 46-49.

10. Sijerčić, A. (2023). *A Review of the Impact of Education on the Adoption of Smart Technologies for Atrial Fibrillation Detection.* Cardiologia Croatica, 18(7-8), 203-210.
11. Sijerčić-Maksimović, A. (2024). *A Review of the Impact of Education on the Adoption of Smart Technologies for Atrial Fibrillation Detection.* Cardiologia Hungarica, 54, 85-89.

C.2. Conference Papers / Radovi objavljeni u zbornicima sa konferencija

1. Sijerčić, A. (2015). *BioEcomat (BEC) – Machine for recycling biotech drugs.* International Conference on Medical and Biological Engineering in Bosnia and Herzegovina (CMBEBIH), Program and abstract book, pp. 123, Sarajevo, 13-15 March 2015.
2. E. Tahirović, M. Kulić, **A. Sijerčić**, M. Avdić, D. Latinović, N. Granov, S. Evens (2021). *The use of a photoplethysmography-deriving smartphone app to screen for atrial fibrillation in primary stroke prevention during the COVID pandemic.* 7th European Stroke Organisation Conference (ESOC 2021), Program and abstract book, #1370.
3. **Sijerčić, A.**, Tahirović, E. (2021). *Use of smart devices and technology for detection of atrial fibrillation in Canton Sarajevo – Bosnia and Herzegovina.* BHAAAS International Symposium in Primary Health Care II, Program book, pp. 35, Mostar, 24-27 June 2021.

D. INTRODUCTORY LECTURE

PRISTUPNO PREDAVANJE

Dr. Adna Sijerčić-Maksimović gave introductory lecture on title "Genetic and Epigenetic Regulation of Metabolic Disorders" in front of the Committee and visitors on 18.12.2025. in period from 13:30-14:00 in the premises of IUS (Conference room A G.15). Considering candidate's abilities in successful English communication, the capacity to engage students, and her knowledge on the selected topic, the Committee concluded that Adna Sijerčić-Maksimović performed very good./ *Dr. Adna Sijerčić-Maksimović je održala uvodno predavanje na temu "Genetska i epigenetska regulacija metaboličkih poremećaja" pred Komisijom i posjetiocima 18.12.2025. godine periodu od 13:30 do 14:00 u prostorijama IUS-a (Konferencijska sala A G.15). Uzimajući u obzir sposobnost kandidatkinje u uspješnoj komunikaciji na engleskom jeziku, sposobnost da angažuje studente, kao i njeno znanje o odabranoj temi, Komisija je zaključila da je Dr. Adna Sijerčić-Maksimović predavanje izvela vrlo dobro.*

PROPOSAL AND RATIONALE

PRIJEDLOG I OBRAZLOŽENJE

The Committee has thoroughly reviewed and considered the applications and determined that both candidates meet the requirements of the public vacancy call for appointment to the scientific-teaching title of Assistant Professor in accordance with the Law on Higher Education of Sarajevo Canton. The Committee's task was to propose a candidate for appointment based on the assessment of education and scientific work. After a detailed review and evaluation of the submitted documents and academic works, the Committee reached the following conclusions: The Committee has thoroughly reviewed the biographical data, academic qualifications, scientific publications, and introductory lectures of both candidates for appointment to the academic title of Assistant Professor in the scientific area of "Medical and Health Sciences", the scientific field "General Medicine", scientific branches: "Medical Chemistry and Biochemistry" and "Medical Biology with Genetics". The scientific output of Dr. Irma Mahmuljin is characterized by continuous and long-term research activity in the fields of biomedical and natural sciences, with a significant number of publications in high-ranking international journals. The candidate has multiple scientific papers indexed in Scopus and Web of Science, including publications in journals such as *PLOS ONE*, *PLoS Genetics*, *Diabetes*, *Human Molecular Genetics*, *Molecular & Cellular Proteomics*, and *Biochimica et Biophysica Acta*. Notably, she has contributed a chapter to a book published by the renowned Academic Press (Elsevier), in the series *Progress in Molecular Biology and Translational Science*, which is also indexed in both citation databases. Many of her publications are the result of international collaborative research, often involving numerous co-authors from multiple countries, further confirming the international recognition and relevance of her scientific contributions. The Committee notes that Dr. Mahmuljin's scientific output fully meets, and in certain aspects even exceeds, the standards required for appointment to the academic title of Assistant Professor. The scientific activity of Dr. Adna Sijerčić-Maksimović is predominantly focused on public health, digital health technologies, and education, with an emphasis on review and applied studies. The candidate has two publications indexed in Scopus and Web of Science: one in *Biological Procedures Online* and one in the *Texas Heart Institute Journal*. The majority of her remaining publications are in journals not indexed in international citation databases. Her conference contributions are exclusively published in programs and abstract books, without international citation indexing. The Committee concludes that, although Dr. Sijerčić-Maksimović demonstrates continuity in publishing and thematic focus, her scientific oeuvre has a significantly smaller international impact compared to that of Dr. Mahmuljin.

Komisija je detaljno pregledala i razmotrila aplikacije i utvrdila je da obje kandidatkinje ispunjavaju uslove konkursa za izbor u naučnonastavno zvanje docenta shodno Zakonu o visokom obrazovanju Kantona Sarajevo. Komisija je imala zadatak da predloži kandidata za izbor u zvanje na osnovu procjene obrazovanja i naučnog rada. Nakon detaljnog

pregleda i procjene dostavljenih dokumenata i radova, Komisija donosi sljedeće zaključke: Komisija je detaljno pregledala biografije, kvalifikacije, naučne radove i uvodna predavanja obje kandidatkinje za izbor u naučnonastavno zvanje docenta za naučnu oblast „Medicinske i zdravstvene nauke“, naučno polje „Opšta medicina“, naučne grane: „Medicinska hemija i biohemija“ i „Medicinska biologija sa genetikom“. Naučni opus kandidatkinje Dr. Irme Mahmuljin karakteriše kontinuiran i dugogodišnji istraživački rad u oblasti biomedicinskih i prirodnih nauka, sa značajnim brojem radova objavljenih u visokorangiranim međunarodnim časopisima. Kandidatkinja ima više naučnih radova indeksiranih u Scopus i Web of Science, uključujući radove objavljene u časopisima kao što su: PLOS ONE, PLoS Genetics, Diabetes, Human Molecular Genetics, Molecular & Cellular Proteomics, Biochimica et Biophysica Acta. Posebno se izdvaja poglavlje u knjizi objavljenoj kod renomiranog izdavača Academic Press (Elsevier), u seriji Progress in Molecular Biology and Translational Science, koje je također indeksirano u obje međunarodne baze podataka. Veći broj radova rezultat je međunarodnih kolaborativnih istraživanja, često sa velikim brojem koautora iz više zemalja, što dodatno potvrđuje međunarodnu prepoznatljivost i relevantnost naučnog doprinosa kandidatkinje. Komisija konstatuje da naučna produkcija Dr. Mahmuljin u potpunosti ispunjava, a u pojedinim segmentima i premašuje, uslove koji se zahtijevaju za izbor u naučnonastavno zvanje docenta. Naučna aktivnost kandidatkinje Dr. Sijerčić-Maksimović pretežno je usmjerena na teme iz oblasti javnog zdravstva, digitalnih zdravstvenih tehnologija i edukacije, sa naglaskom na pregledne i aplikativne radove. Kandidatkinja ima dva rada indeksirana u Scopus i Web of Science: jedan rad objavljen u časopisu Biological Procedures Online, jedan rad objavljen u Texas Heart Institute Journal. Veći dio preostalih radova objavljen je u časopisima koji nisu indeksirani u međunarodnim citatnim bazama. Konferencijski doprinosi kandidatkinje objavljeni su isključivo u programima i knjigama apstrakata, bez međunarodne citatne indeksacije. Komisija zaključuje da, iako kandidatkinja Dr. Sijerčić-Maksimović pokazuje kontinuitet u objavljivanju i tematsku fokusiranost, njen naučni opus ima značajno manji međunarodni naučni domet u poređenju sa kandidatkinjom Dr. Mahmuljin.


Based on the conducted analysis and the delivered introductory lectures, the Committee notes that Dr. Irma Mahmuljin, considering the structure, content, and international relevance of her scientific publications, as well as the pronounced continuity of her research in areas directly related to the relevant scientific branches, demonstrates a higher level of scientific competence and research maturity compared to the other candidate. It is particularly emphasized that her scientific publications are predominantly published in internationally recognized, high-impact journals indexed in relevant citation databases, and thematically cover areas of medical biochemistry, molecular biology, and genetics, which are in direct correlation with the scientific branches encompassed by this call. In view of the above, the Committee concludes that Dr. Irma Mahmuljin is the more suitable candidate for appointment to the academic title of Assistant Professor in the specified scientific area, field, and branches. Therefore, the Committee proposes to the Council of the Faculty of Medical Sciences to appoint Dr. Irma Mahmuljin to the academic

title of Assistant Professor in the scientific area of "Medical and Health Sciences", the scientific field "General Medicine", scientific branches: "Medical Chemistry and Biochemistry" and "Medical Biology with Genetics" at the Faculty of Medical Sciences of the International University of Sarajevo. The members of the Committee have assessed the candidate's academic achievements and research interests and have determined that she would make a significant contribution to the Faculty of Medical Sciences at the International University of Sarajevo.

Na osnovu izvršene analize i održanih pristupnih predavanja, Komisija konstatuje da kandidatkinja dr. Irma Mahmuljin, s obzirom na strukturu, sadržaj i međunarodnu relevantnost svojih naučnih radova, kao i na izražen kontinuitet istraživačkog rada u oblastima koje su neposredno povezane s predmetnim naučnim granama, pokazuje viši stepen naučne kompetentnosti i istraživačke zrelosti u odnosu na drugu kandidatkinju. Posebno se ističe činjenica da su njeni naučni radovi dominantno objavljeni u međunarodno priznatim, visoko rangiranim časopisima indeksiranim u relevantnim naučnim bazama, te da tematski obuhvataju oblasti medicinske biohemije, molekularne biologije i genetike, koje su u direktnoj korelaciji s naučnim granama obuhvaćenim konkursom. Imajući u vidu navedeno, Komisija zaključuje da je dr. Irma Mahmuljin podobnija kandidatkinja za izbor u naučnonastavno zvanje docenta za navedenu naučnu oblast, polje i grane. Stoga, Komisija predlaže Vijeću Fakulteta medicinskih nauka da izabere Dr. Irmu Mahmuljin u naučnonastavno zvanje docenta za naučnu oblast „Medicinske i zdravstvene nauke“, naučno polje „Opšta medicina“, naučne grane: „Medicinska hemija i biohemija“ i „Medicinska biologija sa genetikom“ na Fakultetu medicinskih nauka Internacionalnog univerziteta u Sarajevu. Članovi Komisije su ocijenili akademska postignuća i istraživačke interese kandidata, te utvrdili da bi ona dala značajan doprinos Fakultetu medicinskih nauka Internacionalnog univerziteta u Sarajevu.

COMMITTEE – KOMISIJA

1. Dr. Jasmin Mušanović (Chair/Predsjednik)



2. Dr. Emina Kiseljaković (Member/Član)



3. Dr. Altijana Hromić-Jahjefendić (Member/Članica)