

LIČNE INFORMACIJE



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Spol Ženski

RADNO ISKUSTVO

Mart 2022-do danas

Docent

Prirodno-matematički fakultet, Univerzitet u Sarajevu, Sarajevo

Oblasti: Molekularna biologija i Funkcionalna biologija

Angažman na predmetima: Molekularna biologija, Imunologija, Molekularne metode u biologiji, Dinamička biohemija, Genetika eukariota

Jul 2017-Mart 2022

Viši asistent

Prirodno-matematički fakultet, Univerzitet u Sarajevu, Sarajevo

Oblasti: Molekularna biologija i Funkcionalna biologija

Angažman na predmetima: Molekularna biologija, Imunologija, Molekularne metode u biologiji, Dinamička biohemija, Eksperimentalna biohemija, Genetika eukariota,

Mart 2014 – Jul 2017

Asistent

Prirodno-matematički fakultet, Univerzitet u Sarajevu, Sarajevo

Oblasti: Klinička biologija i Molekularna biologija

Angažman na predmetima: Molekularna biologija, Dinamička biohemija, Eksperimentalna biohemija, Fiziologija ćelije, Genetika kancerogeneze, Genetika eukariota, Histologija i embriologija životinja i čovjeka

Septembar 2013 – Jun 2014

Profesor

Medicinska škola, Zenica, Bosna i Hercegovina

Oblasti: Medicinska biohemija i Laboratorijska hematologija

Angažman na predmetima: Medicinska biohemija i Laboratorijska hematologija

EDUKACIJA

Januar 2015-Januar 2022

Doktor bioloških nauka u oblasti biohemije i fiziologije

Prirodno-matematički fakultet, Univerzitet u Sarajevu, Bosna i Hercegovina

Teza: *Molekularno-genetička osnova rezistencije na tirozin kinazne inhibitore kod pacijenata sa hroničnom mijeloidnom leukemijom*

Mentor: prof. dr. Amina Kurtović-Kozarić

Istraživanje je sprovedeno u OJ Patologija, citologija i humana genetika na Kliničkom centru Univerziteta u Sarajevu



Curriculum Vitae

Oktober 2013-Decembar 2014

Magistar biologije, usmjerenje biohemija i fiziologija

Prirodno-matematički fakultet, Univerzitet u Sarajevu, Bosna i Hercegovina

Teza: *Fiziološki i kliničko-dijagnostički značaj mutacije V617F JAK2 gena*

Mentor: prof. dr. Lejla Pojskić

Istraživanje je sprovedeno u Laboratoriji za humanu genetiku na Institutu za genetičko inženjerstvo i biotehnologiju, Univerzitet u Sarajevu

Septembar 2008-Oktober 2012

Bachelor/bakalaureat biologije, biohemije i fiziologije

Prirodno-matematički fakultet, Univerzitet u Sarajevu, Bosna i Hercegovina

Teza: *Određivanje koncentracije lipidnih materija u ekstratu tkiva jetre kod odabranih životinjskih vrsta*

Mentor: prof. dr. Edhem Hasković

Istraživanje je sprovedeno u laboratorijama Katedre za biohemiju i fiziologiju, Odsjek za biologiju, Prirodno-matematički fakultet, Univerzitet u Sarajevu

PROJEKTI

1. COST CA18233-European Network for Innovative Diagnosis and Treatment of Chronic Neutropenias (2020-2024)

Status: član upravnog odbora

2. Bioaktivni profil i prediktivno modeliranje djelovanja bijelog duda u borbi protiv antibiotske rezistencije i SARS-CoV-2

Finansijer: Federalno ministarstvo obrazovanja i nauke (2022)

Status: član projekta-istraživač

3. Inventarizacija korovske biljke vrste *Ambrosia artemisifolia* L. na javnim površinama Kantona Sarajevo

Finansijer: Kantonalno ministarstvo komunalne privrede, infrastrukture, prostornog uređenja, građenja i zaštite okoliša Kantona Sarajevo (2022)

Status: član projekta-saradnik

4. *In vitro* ispitivanje vitalnosti kancerogenih ćelijskih linija nakon aplikacije rutenij kompleksa

Finansijer: Federalno ministarstvo obrazovanja i nauke (2018)

Status: član projekta-istraživač

5. Detekcija i prisustvo molekularnih biljega klonalne hematopoeze u opštoj populaciji

Finansijer: Federalno ministarstvo obrazovanja i nauke (2018)

Status: član projekta-istraživač

6. PCR edukacija studenata biologije i srednjoškolaca na primjeru HLA tipizacije

Finansijer: Ministarstvo za nauku, visoko obrazovanje i mlade (2018)

Status: član projekta-istraživač

7. Molekularno-genetička osnova rezistencije na tirozin kinazne inhibitore kod pacijenata sa hroničnom mijeloidnom leukemijom

Finansijer: Federalno ministarstvo obrazovanja i nauke (2016)

Status: član projekta-istraživač

NAGRADE I PRIZNANJA

Zlatna značka Univerziteta u Sarajevu 2013-e godine.

ČLANSTVA Član Western Balkan Alumni Association
 Član European Association for Cancer Research
 Član European Hematology Association
 Član Udruženja biohemičara i molekularnih biologa u BiH -Association of Biochemists and Molecular Biologists in Bosnia and Herzegovina (ABMB in B&H) (Associate Member of FEBS)

DODATNE EDUKACIJE Siica School of Immunology, Italy (april-maj 2020)
 Radboud University, Nijmegen, Netherlands (avgust 2017)
 Ludwig Boltzmann Institute for Cancer Research, Vienna, Austria (juni-juli 2017)
 TRAIN – Training and Research for Academic Newcomers (juni-juli, 2016)
 FEBS Workshop on Molecular Life Sciences Education (septembar, 2015)

Publikacije i linkovi
<https://www.webofscience.com/wos/woscc/summary/f5239b10-1b27-4c23-9c8c-2642cb8b0872-3a75d259/relevance/1>
<https://scholar.google.com/citations?user=wfRJs2sAAAAJ&hl=en>
<https://orcid.org/0000-0002-1785-5035>
https://www.researchgate.net/profile/Erna_Islamagic

VJEŠTINE

Maternji jezik Bosanski (C2)

Drugi jezici Engleski

RAZUMIJEVANJE		GOVOR		PISANJE
Slušanje	Čitanje	Slušanje	Čitanje	
C1	C1	C1	C1	C1

Bibliografija

1. Suljević D, Hamzić A, **Islamagić E**, Fejzić E, Alijagić A. Haematopoietic thrombocyte precursors in rat femoral and sternal bone marrow. *Bulgarian Journal of Veterinary Medicine* 2021, 24(1): 22-31.
2. Haskovic E, Muhic-Sarac T, Lukic M, Marjanovic M, Zero S, **Islamagic E**. Determination of heavy metals in liver and skeletal muscles of pigs and calves: experience from Bosnia and Herzegovina. *Bulgarian Journal of Agricultural Science* 2021, 27(3): 593-599.
3. Kurtovic-Kozaric A, **Islamagic E**, Asic A, Mehinovic-Cavcic L, Besic L, Sahinbegovic H, Komic H, Kurtovic S, Burazerovic L. A Review of Molecular and Genetic Diagnostics of Myeloid Malignancies with Emphasis on Diagnostics in Bosnia and Herzegovina. *Acta Medica Academica* 2021, 50(1). IF=0.19
4. **Islamagic E**, Hasic A, Kurtovic S, Suljevic D, Kozaric M, Eminovic I, Kurtovic-Kozaric A. Clinical Outcomes of CML Patients After Delayed Start of Nilotinib Treatment. *International Journal of Hematology & Oncology* 2021, 31(1): 19-27.
5. Kurtovic-Kozaric A, **Islamagic E**, Komic H, Bilalovic N, Eminovic I, Burekovic A, Uzunovic A, Kurtovic S. The effects of mutational profiles on phenotypic presentation of myeloproliferative neoplasm subtypes in Bosnia: 18 year follow-up. *Bosnian Journal of Basic Medical Sciences* 2020, 20(2): 236.

6. Suljević D, **Islamagić E**, Čorbić A, Fočak M, Filipić F. Chronic cadmium exposure in Japanese quails perturbs serum biochemical parameters and enzyme activity. *Drug & Chemical Toxicology* 2020, 43(1): 37-42.
7. **Islamagić E**, Lisovac A, Focak M, Suljevic D. Comorbidity and gout: association between hyperuricemia and blood parameters as a predictor of gout. *Journal of IMAB* 2020, 26(2): 3092-3097.
8. Suljevic D, Corbic A, **Islamagić E**, Focak M, Filipic F, Alijagic A. Impairments of bone marrow hematopoietic cells followed by the sever erythrocyte damage and necrotic liver as the outcome of chronic in vivo exposure to cadmium: novel insights from quails. *Environmental Toxicology and Pharmacology* 2019, 72: 103250.
9. Suljevic D, **Islamagić E**, Hamzic A, Zubcevic N, Alijagic A. Hibernation perturbs the number of hemocytes and causes hematological turnover: basal traits to understand season-dependent physiological variations in *Helix pomatia* (Gastropoda: Helicidae). *Turkish Journal of Zoology* 2019, 43: 243-249.
10. Suljevic D, **Islamagić E**, Karahodzic A, Babic Z, Zukic E, Sehic E, Dzafic S, Alijagic A. Sodium Hypochlorite Provokes Stress Response in Rainbow trout: Variation in Blood Parameters as an Ecotoxicological Indicator of Freshwater Contamination. *Haceteppe Journal of Biology and Chemistry* 2019, 46(4), 569-575.
11. Suljević D, Filipić F, **Islamagić E**. Emperipolesis: Sternal and Femoral Microenvironment Induces Megakaryocyte Emperipolesis in the Wistar Strain. *Macedonian Veterinary Review* 2019; 42(1): 71-77.
12. Suljević D, **Islamagić E**, Filipić F, Fočak M. Seasonally dependent morphological variations of circulating hemocytes in *Helix pomatia*. *Environmental and Experimental Biology* 2018, 16: 299–305.
13. Alijagic A, **Islamagić E**, Focak M, Suljevic D. Effects of trivalent and hexavalent dietary chromium on blood biochemical profile in Japanese quails. *Bulgarian Journal of Veterinary Medicine* 2018, 21(4): 470-477.
14. Mehinovic L, **Islamagić E**, Husic-Selimovic A, Kurtovic-Kozaric A, Vukobrat-Bijedic Z, Suljevic D. Evaluation of Diagnostic Efficiency of Alpha-Fetoprotein in Patients with Liver Cirrhosis and Hepatocellular Carcinoma: Single-Center Experience. *Open access Macedonian journal of medical sciences* 2018, 6(9): 1668-1673.
15. Mehinovic L, Vukobrat-Bijedic Z, Husic-Selimovic A, Kurtovic-Kozaric A, **Islamagić E**, Suljevic D. Association between alpha-fetoprotein and other serological markers in patients with hepatocellular carcinoma: one center's experience. *Journal of IMAB* 2018, 24(3): 2160-2165.
16. Hasković E, Bureković A, Husić A, Fočak M, **Islamagić E**. Acid-Base Status of Patients with Diabetic Ketoacidosis and Ketonuria: Bosnia and Herzegovina Experience. *Acta facultatis medicae Naissensis* 2018, 35(2): 132-139.
17. Sušić A, Klepo L, **Islamagić E**, Fočak M, Ostojić J, Suljević D. Nicotine allergy in correlation with different sources and individual predispositions. *Albanian Medical Journal* 2018, 1: 13-19.
18. **Islamagić E**, Kurtovic S, Kozaric M, Suljovic Hadzimesic E, Hasic A, Mehinovic L, Kurtovic-Kozaric A. The Three Year Follow-up of CML Patients Treated with First-line Generic and First-line Branded Imatinib in Bosnia and Herzegovina. *International Journal of Hematology and Oncology* 2017, 27 (1): 8-12.
19. **Islamagić E**, Hasic A, Kurtovic S, Suljovic Hadzimesic E, Mehinovic L, Kozaric M, Kurtovic-Kozaric, A. The efficacy of generic imatinib as first- and second-line therapy:three year follow-up of chronic myeloid leukemia patients. *Clinical Lymphoma Myeloma & Leukemia* 2017, 17(4): 238-240.
20. Suljević D, Muhić A, **Islamagić E**, Fočak M. Temporal dependence between hibernation and post-hibernation period according to biochemical profile of hemolymph in *Helix pomatia* Linnaeus, 1758. *Acta Biologica Szegediensis* 2017, 61(2): 129-134.
21. Suljević D, Alijagić A, **Islamagić E**. Temporal influence of spawning on serum biochemical parameters in brown trout *Salmo trutta* (Teleostei: Salmonidae). *Bulgarian Journal of Agricultural Science* 2017, 23(3): 485-490.
22. Alijagić A, **Islamagić E**, Suljević D. Comparative study of cellular pathways and biochemical effects of chromium ions. *Veterinaria* 2017, 66(2): 53-56.

23. Suljević D, **Islamagić E**, Alijagić A, Fočak M, Mitrašinić-Brulić M. Morphological identification of haematopoietic cells in pronephros of common carp (*Cyprinus carpio* Linnaeus, 1758). *Acta Biologica Szegediensis* 2016, 60(2): 113-118.
24. Focak M, Haskovic E, Suljevic D, **Islamagic E**. Dexamethasone effects on serum glucose and potassium concentrations and platelet count of wistar rat. *Macedonian Journal of Animal Science* 2016, 6(2): 139-144.
25. Suljević D, Alijagić A, Mitrašinić-Brulić M, Fočak M, **Islamagić E**. Comparative physiological assessment of common carp (*Cyprinus carpio* Linnaeus, 1758) and crucian carp (*Carassius carassius* Linnaeus, 1758) based on electrolyte and hematological analysis. *Macedonian Journal of Animal Science* 2016, 6(2): 95-100.
26. Suljević D, **Islamagić E**, Fočak M. The effects of high temperature level on electrolytes and glucose concentration in tench (*Tinca tinca* Linnaeus, 1758) serum. *Veterinaria* 2015, 64 (2): 60-64.

Sažeci sa kongresa koji su objavljeni u časopisima

1. **Islamagic E**, Haskovic E, Marjanovic M, Zero S, Muhic-Sarac T. Heavy metals from the aquatic environment change the activity of organ-specific enzymes: an example of the brown trout. *FEBS OPEN BIO* 2021, 11, 368-368.
2. Kurtovic-Kozaric, A, **Islamagic E**, Mesanovic S, Burekovic A, Uzunovic A, Kurtovic S. PB1963 BCR-ABL1 transcripts e13a2 and e14a2 in relation to survival and molecular responses in CML patients in Bosnia. *HemaSphere* 2020, 0(S1): 893.
3. **Islamagic E**, Kurtovic S, Hasic A, Kurtovic-Kozaric A. How we treat CML patients in developing countries: 13 years experience. *European Journal of Human Genetics* 2019, E-P07.01.
4. **Islamagic E**, Kurtovic S, Komic H, Dizdarevic-Rekic A, Burekovic A, Uzunovic A, Kurtovic-Kozaric A. Mutational signatures affect the phenotypic presentation of disease subtypes in MPN patients from Bosnia and Herzegovina. *European Hematology Association* 2019, PB2234.
5. Komic H, **Islamagic E**, Kurtovic S, Burekovic A, Uzunovic A, Kurtovic-Kozaric A. Clinical outcomes of patients with *JAK2*, *CALR* and *MPL* positive myeloproliferative neoplasms. *European Journal of Human Genetics* 2019, E-P07.06.
6. Kurtovic-Kozaric A, Mehinovic L, **Islamagic E**, Dizdarevic-Rekic A, Komic H, Kurtovic S. Clinicopathological characteristics of patients with myeloid neoplasms from Bosnia and Herzegovina: 20 year follow-up. *European Journal of Human Genetics* 2019, E-P07.05
7. **Islamagic E**, Komic H, Eminovic I, Kurtovic S, Hasic A, Mehinovic L, Halilović Z, Suljovic Hadzimesic E, Kurtovic-Kozaric A. Long term clinical outcomes of MPN patients with *JAK2*, *CALR* and *MPL* mutations in Bosnia and Herzegovina: 17 years follow-up. *HemaSphere* 2018, 2(S1): 1017.
8. Kurtovic-Kozaric A, **Islamagic E**, Kurtovic S, Hasic A, Bijedic V, Colakovic F, Skobic Bovan N. Front-line nilotinib is a better choice than front-line imatinib for CML patients with delayed treatment: 11 year follow-up. *Haematologica* 2017, 102: 736-736.
9. Kurtovic Kozaric A, **Islamagic E**, Beslija S, Kurtovic S, Mehinovic M, Hasic A. Long term efficacy of nilotinib as front- and second-line therapy in Bosnia and Herzegovina: Real life experience. *Journal of Clinical Oncology* 2017, 35: e18549.
10. Komic H, Mehinovic L, **Islamagic E**, Eminovic I, Kurtovic-Kozaric A. Detection of Y microdeletion in Bosnian males with fertility disorders. *European Journal of Human Genetics* 2017, E-P01.64.
11. Kurtovic-Kozaric A, **Islamagic E**, Radich JP, Hadzimesic ES, Hasic A, Kurtovic S. The Comparison of Efficacy Between Generic and Branded Imatinib in Achievement of Overall Survival and Cytogenetic Responses in CML Patients in Bosnia and Herzegovina. *Blood* 2016,128(22): 5451-5451.

Kongresna priopćenja

1. Suljević D, Fočak M, **Islamagić E**. Total protein level as an indicator of physiological processes activation in Roman snail (*Helix pomatia*) after hibernation period. *Biosfera Book of Abstracts* 2018, 31.
2. Hasković E, Omerović A, Fočak M, **Islamagić E**, Kasumagić-Halilović E. Comparison of IgE concentrations and epicutaneous aeroallergen sensitization in patients with atopic dermatitis. *COMBOS Book of Abstracts*, 2017, 130.
3. Kurtovic S, Kurtovic-Kozaric A, **Islamagic E**, Skobic-Bovan N, Bijedic V. The efficacy of generic and branded imatinib in CML patients in Bosnia and Herzegovina. *2nd Congress of Hematology and Transfusion of B&H*, 2017, 85. 26-28. 10.2017. Sarajevo, BiH.
4. Kurtovic S, Kurtovic-Kozaric A, **Islamagic E**, Bijedic V, Colakovic F, Skobic Bovan N. First-line nilotinib compared to first-line imatinib in CML patients with delayed start of treatment. *2nd Congress of Hematology and Transfusion of B&H*, 2017, 99. 26-28.10.2017. Sarajevo, BiH.
5. Kurtovic S, Kurtovic-Kozaric A, **Islamagic E**, Skobic Bovan N, Bijedic V. Long term efficacy of nilotinib as second line therapy in Bosnia and Herzegovina: Real life experience. *2nd Congress of Hematology and Transfusion of B&H*, 2017, 100. 26-28.10.2017. Sarajevo, BiH.

Publikacije u neindeksiranim časopisima

1. Komić H, Dizdarević S, Herceg DŽ, **Islamagić E**. Cancer: a growing problem in Bosnia and Herzegovina. *BurchGene* 2017, 4, 8-11.
2. Tomić N, Zametica B, Toman E, Džananović A, **Islamagić E**. Suicidal RNA molecules as powerful tool in cancer gene therapy. *BurchGene* 2018, 5: 16-19.

Knjige

1. Suljević D, Fočak M, **Islamagić, E**, Avdić, S. (2022). *Biohemijska analitika II – Lipidi*. Prirodno-matematički fakultet, Sarajevo, BiH.
2. Mešić A, **Islamagić E**, Eminović I. (2022). *Praktikum iz genetike eukariota*. Prirodno-matematički fakultet, Sarajevo, BiH.
3. Suljević D, Alijagić A, Fočak M, **Islamagić, E**. (2018). *Animalni fiziološki mehanizmi i adaptacije*. Prirodno-matematički fakultet, Sarajevo, BiH.
4. Lukić Bilela L, Kalamujić B, **Islamagić E**. (2018). *Molekularna biologija, Praktikum sa zbirkom zadataka*. Prirodno-matematički fakultet, Sarajevo, BiH.