

LIČNI PODACI

Orhan Lepara



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Spol Muški | Datum rođenja 27/11/1978 | Nacionalnost Bošnjak

POZICIJA

Redovni profesor

Link za ličnu google scholar citations stranicu: <https://scholar.google.com/citations?user=fQjwaukAAAAJ&hl=hr>

RADNO ISKUSTVO

(2023 -)

Redovni profesor na Katedri za fiziologiju čovjeka

Univerzitet u Sarajevu – Medicinskui fakultet

Ceklauša 90, 7100 Sarajevo Bosna i Hercegovina; www.mf.unsa.ba

(2019 - 2023)

Vanredni profesor na Katedri za fiziologiju čovjeka

Medicinski fakultet Univerziteta u Sarajevu

Čekaluša 90, 71000 Sarajevo, Bosna i Hercegovina; www.mf.unsa.ba

Nastava iz predmeta fiziologija čovjeka za studente medicine, stomatologije, farmacije, Fakulteta zdravstvenih studija, Fakulteta sporta, Poljoprivredno-prehrambenog fakulteta, te priprema i realizacija istraživačkih projekata. Moja istraživačka interesovanja obuhvataju područja upalnih markera, markera endotelne disfunkcije i markera oksidativnog stresa u patofiziologiji neurodegenerativnih bolesti, kao i kod dijabetesa tip 1 i tip 2; fiziologiju i patofiziologiju kardiovaskularnog sistema; predikciju i prevenciju kardiovaskularnog rizika; fiziologiju i patologiju bubrega.

(2014 - 2019)

Docent na Katedri za fiziologiju čovjeka

Univerzitet u Sarajevu – Medicinskui fakultet

Ceklauša 90, 7100 Sarajevo Bosna i Hercegovina; www.mf.unsa.ba

- nastava iz predmeta fiziologija čovjeka za studente medicine, stomatologije, farmacije i Fakulteta zdravstvenih studija; priprema i realizacija istraživačkih projekata

Oblast Obrazovanje i nauka

(2009 – 2014)

Viši asistent na Katedri za fiziologiju čovjeka

Univerzitet u Sarajevu – Medicinskui fakultet

Ceklauša 90, 7100 Sarajevo Bosna i Hercegovina ; www.mf.unsa.ba

- nastava iz predmeta fiziologija čovjeka za studente medicine, stomatologije, farmacije, Fakulteta zdravstvenih studija, kao i studente primijenjene medicine

Oblast Obrazovanje i nauka

(2005 – 2007)

Asistent na Katedri za fiziologiju čovjeka

Univerzitet u Sarajevu – Medicinski fakultet

Cekauša 90, 7100 Sarajevo Bosna i Hercegovina ; www.mf.unsa.ba

- nastava iz predmeta fiziologija čovjeka za studente medicine, stomatologije, farmacije, Fakulteta zdravstvenih studija, kao i studente primijenjene medicine

Oblast Obrazovanje i nauka

OBRAZOVANJE

13. 01. 2014.

Doktor nauka

Tema doktorske disertacije “ Procjena uloge beta estradiola u oksidativnom stresu kod pacijentica sa mogućom Alzheimerovom i vaskularnom demencijom ”

Univerzitet u Sarajevu – Medicinski fakultet; Bosna i Hercegovina

2008-2013
Juli 2013

Specijalizant interne medicine
Specijalista interne medicine

Specijalizacija odobrena od strane Medicinskog fakulteta Univerziteta u Sarajevu, Bosna i Hercegovina, i realizovana u Kliničkom centru Univerziteta u Sarajevu, Bosna i Hercegovina

02. 04. 2009.

Magistar nauka (MSc)

Tema magistarskog rada (MSc): “ Koncentracija C-reaktivnog proteina i homocisteina u serumu pacijenata sa mogućom Alzheimerovom demencijom ”

Univerzitet u Sarajevu – Medicinski fakultet; Bosna i Hercegovina

2005-2007

Postdiplomski studij – Eksperimentalno laboratorijska medicina

Univerzitet u Sarajevu – Medicinski fakultet; Bosna i Hercegovina

1997-2005

Doktor medicine

Univerzitet u Sarajevu – Medicinski fakultet; Bosna i Hercegovina

STRUČNO USAVRŠAVANJE

01. maj – 29. juni 2012,
Institut za fiziologiju i
metabolizam ćelija, Medicinski

«Tight junction signaling in the adaptation of insuling producing beta-cells»,

Tehnika lančane reakcije polimeraze (PCR)

fakultet u Ženevi

LIČNE VJEŠTINE

Maternji jezik: **Bosanski**

Drugi jezici	RAZUMIJEVANJE		GOVOR		PISNJA
	Slušanje	Čitanje	Govorna interakcija	Govorna produkcija	
Engleski	B2/C1	B2/C1	B2/C1	B2/C1	B2/C1
Njemački	EKVIVALENT A1/A2 NIVO				

Komunikacijske vještine

- dobre komunikacijske vještine stečene kroz iskustvo rada kao predavača i asistent u radu sa studentima, kao i kroz učešće u brojnim istraživačkim timovima

Organizacijske / menadžerske vještine

- Organizacijske i planske vještine (planiranje i realizacija naučnih projekata)

Vještine vezane za posao

- posvećenost sticanju novih znanja i informacija
- lakoća usvajanja teorijskih i praktičnih aspekata rada
- samostalnost u izvještavanju o rezultatima eksperimenata, sposobnost njihove diskusije i izvlačenja zaključaka na tačan i naučno artikulisan način
- izvrsne vještine pisanja

Kompjuterske vještine

- izvrsno poznavanje Microsoft Office™ alata; poznavanje rada u programu SPSS

Druge vještine

- sviranje harmonike

Vozačka dozvola

B Kategorija vozačke dozvole

Projekti

- "Utjecaj vrste treninga na oksidativni status sportista u vrhunskom sportu" Finansijer: Federalno ministarstvo obrazovanja i nauke; Odluka broj 05-39-7061-1/11 od 16.12.2011 godine (učesnik u projektu)
- "TIGHT JUNCTION SIGNALLING IN THE ADAPTATION OF THE INSULIN-PRODUCING BETA CELLS.SCOPEs" (Swiss International Co-operation(Scientific Co-operation with Eastern Europe)-finansirano SNSF (Swiss National Science Foundation), No.127935. (učesnik u projektu)
- "Koncentracija endotelina-1 i N-terminalnog natriuretskog peptida B (NTproBNP) i adipocitokina u serumu štakora sa eksperimentalno izazvanim diabetes mellitus-om" Finansijer: Federalno ministarstva obrazovanja i nauke. Odluka br. 03-39-5980-2-1/08. (učesnik u projektu)
- Koncentracija malondialdehida i interleukina 17 u serumu pacijenata sa mogućom Alchajmerovom i vaskularnom demencijom. Projekat realiziran 2017, a odobren odlukom Univerziteta u Sarajevu od strane Fonda „Akademik Edhem Fočo“ Univerziteta u Sarajevu (0101-3172-5/16) (učesnik u projektu).
- Značaj serumskih vrijednosti srčane i moždane izoforme preoteina koji vežu masne kiseline u diferenciranju pacijenata sa mogućom Alchajmer i vaskularnom demencijom. Projekat realiziran 2017, a odobren odlukom Univerziteta u Sarajevu od strane Fonda „Akademik Edhem Fočo“ Univerziteta u Sarajevu (0101-3489-1/16) (učesnik u projektu).
- Analiza kvalitativnih i kvantitativnih svojstava otisaka prstiju i dlana oboljelih od karcinoma dojke, projekat odobren 2015 godine, a realiziran 2017, od strane Federalnog ministarstva obrazovanja i nauke. Broj: 05-39-3958-1/15. (učesnik u projektu).

Konferencije

EAU 17th Central European Meeting (CEM) in conjunction with the national 63rd annual conference of the Czech Urological Society (CUS) 19-20 October 2017, Plzen, Czech Republic

4th International Congress on Prediabetes and the Metabolic Syndrome, 6-9 April 2011, Madrid, Spain

EAU 6th South Eastern European Meeting (SEEM) 1-2 October 2010, Istanbul, Turkey

15th Annual Congress of the European College of Sport Science in Antalya, Turkey from 23-26 June 2010

19th World Congress of the International Association for Child and Adolescent Psychiatry and Allied Professions (IACAPAP), Beijing, China, 2-6 June 2010,

Članstva

Član Udruženja biohemičara i molekularnih biologa u Bosni i Hercegovini
Član Laboratorije za spajanje umjetne inteligencije sa bioinformatikom i biomedicinskim inženjeringom

Reference / Publikacije

References / Publications

1. Ganic D, Fajkic A, **Lepara O**. Complete Blood Count-Derived Inflammation Indices and Their Association With Cognitive Functions in Patients With Type 2 Diabetes Mellitus. *Cureus*. 2025: 17 (9).
2. Fajkić A, **Lepara O**, Jahić R, Hadžović-Džuvo A, Belančić A, Chupin A, Pavković D, Karahmet Sher E. Ultra-Processed Diets and Endocrine Disruption, Explanation of Missing Link in Rising Cancer Incidence Among Young Adults. *Cancers* 2025, 17(13), 2196.
3. Džidić-Krivić A, Fajkić A, Farhat EK, Lekić L, Ejubović A, Vukas SK, Ejubović M, **Lepara O**, Sher EK. Linking Metabolic Syndrome to Neurodegeneration Mechanisms and Potential Treatments. *Mol Neurobiol*. 2025 Apr 24. doi: 10.1007/s12035-025-04947-w.
4. Fajkić A, **Lepara O**, Jahić R, Ejubović M, Kurtović A, Džidić-Krivić A, Ejubović AJ, Hadžović-Džuvo A, Sher EK. The role of resistin and adiponectin ratios with uric acid in assessing metabolic syndrome in type 2 diabetes. *Mol Cell Biochem*. 2025 Jun;480(6):3683-3694.
5. Ibrahimović-Pašić J, **Lepara O**, Dervišević A, Babić N, Avdagić N, Valjevac A, Začiragić A. Mild Cognitive Impairment and Cardiometabolic Risk Factors in Bosnian and Herzegovinian Patients with Heart Failure. *Acta Clin Croat* 2024; 63:769-777.
6. Ejubović M, Kapic D, Custovic S, Lazović Salčin E, **Lepara O**, Kurtović A, Jahić R, Kulo Cesic A, Paralija B, Ziga Smajic N, Jagodić Ejubović A, Hasanbegovic S, Katica M, Besic A, Djesevic E, Fajkić A. Therapeutic Potential of N-acetylcysteine and Glycine in Reducing Pulmonary Injury in Diabetic Rats. *Cureus*. 2024 Nov 2;16(11):e72902.
7. Masic N, Begic E, Aziri B, Mehmedika-Suljić E, Mahmutbegović N, Fajkic A, **Lepara O**, Krupic F. Hemorrhagic stroke and atherogenic markers—is there any relation? *Journal of Family Medicine and Primary Care*. 2024: 13 (11), 5145-5151.
8. Fajkić A, Jahić R, Ejubović M, Đešević M, Ejubović AJ, **Lepara O**. The Trend of Changes in Adiponectin, Resistin, and Adiponectin-Resistin Index Values in Type 2 Diabetic Patients with the Development of Metabolic Syndrome. *Medicina (Kaunas)*. 2024 Nov 1;60(11):1795.
9. Huremović A, Dervišević A, **Lepara O**, Valjevac A, Začiragić A. Gender differences in weight-adjusted waist index in elderly inhabitants of a geriatric center. *Folia Med (Plovdiv)*. 2024 Oct 31;66(5):692-698.
10. Lagumdžija D, Hamzić Mehmedbašić A, Jesenković DA, Kudić B, Kapić D, Čosović E, **Lepara O**, Pehlivanović Kelle B, Prguda-Mujić J, Kusturica J, Herenda Pušina N, Bečić F, Kulo Česić A. Curcumin and its combination with a reduced dose of rosuvastatin: A promising therapy for chronic kidney disease and associated dyslipidemia in rat animal models. *Biomol Biomed*. 2025 Apr 26;25(6):1377-1388.

11. Nisic F, **Lepara O**, Jahić R, Begić E, Alic L, Fajkić A. Demographic, Clinical, and Surgical Risk Factors of Pars Plana Vitrectomy (PPV) for Neovascular Glaucoma (NVG) Development in Type 2 Diabetes Mellitus Patients. *Cureus*. 2024 Sep 17;16(9):e69571.
12. Jagodić Ejubović A, Ejubović M, Jahić R, Brkovic A, Letic E, Vujnic M, **Lepara O**, Kurtović A, Becirovic M, Becirovic E, Fajkić A. The Role of Red Cell Distribution Width (RDW), RDW/Platelet Ratio, and Mean Platelet Volume as Prognostic Markers in Acute Pancreatitis Severity and Complications Based on the Bedside Index for Severity in Acute Pancreatitis Score. *Cureus*. 2024 Aug 5;16(8):e66193.
13. Jalisi A, Jahić R, Kurtović A, Dešević M, Husić-Selimović A, Hodžić E, Lazović Salčin E, **Lepara O**, Fajkić A. Aspartate Aminotransferase to Platelet Ratio Index (APRI) as a Predictor of Metabolic Syndrome (MetS) Development in Individuals With Type 2 Diabetes Mellitus. *Cureus*. 2024 Jun 28;16(6):e63389.
14. Fajkić A, Jahić R, Kurtović A, Mlačo L, Dervišević A, Bašić H, Mattar L, Kovačević F, Lama K, Ejubović M, **Lepara O**. Red Cell Distribution Width and Platelet Indices as Inflammatory Parameters in Type 2 Diabetic Patients with Kidney Dysfunction. *Medicina Fluminensis: Medicina Fluminensis* 60 (2), 184-192.
15. Hadžović-Džuvo A, Valjevac A, Začiragić A, Kekić A, **Lepara O**. Impact of Forced Swimming Stress on Serum Adiponectin and Endothelin-1 Levels in Wistar Rats: Comparative Analysis of Dietary Effects. *Cureus*. 2024 Apr 16;16(4):e58405.
16. Začiragić A, Mikić M, Dervišević A, Lepara O, Avdagić N, Babić N, Fajkić A, Valjevac A. Neck-to-height ratio in Bosnian university students according to the 2017 American College of Cardiology/American Heart Association guidelines on hypertension classification. *Global Cardiology*. 2020; 2 (1).
17. Fajkić A, Jahić R, Hadžović-Džuvo A, Lepara O. Adipocytokines as Predictors of Metabolic Dysfunction-Associated Steatotic Liver Disease (MASLD) Development in Type 2 Diabetes Mellitus Patients. *Cureus*. 2024 Mar 6;16(3):e55673.
18. Fajkić A, Jahić R, Begić E, Dervišević A, Kurtović A, **Lepara O**. Complete blood count inflammation derived indexes as predictors of metabolic syndrome in type 2 diabetes mellitus. *Technology and Health Care*. 2024;1-10.
19. Hasković E, Dolaićanin A, Hasković E, Herenda S, **Lepara O**. The Effect of the Angiotensin-Converting Enzyme Inhibitor Perindopril on the Lipid Status of Rattus Norvegicus (Berkenhout 1769). In *Mediterranean Conference on Medical and Biological Engineering and Computing Cham: Springer Nature Switzerland*. 2023: pp. 353-367.

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21. Djesevic M, Hasic S, **Lepara O**, Jahic R, Kurtovic A, Fajkic A. CRP/HDL–C and Monocyte/HDL–C ratios as Predictors of Metabolic Syndrome in Patients With Type 2 Diabetes Mellitus. ACTA INFORM MED. 2023, 31(4): 254-259.
22. Nisic F, Pidro Gadzo A, Fajkić A, Nisic A, Pidro Mioković A, Damjanovic G, Begic E, Beslic N, **Lepara O**. Predictors of visual outcome after pars plana vitrectomy seconfary to proliferative diabetic retinopathy. Rom J Ophthalmol. 2023 Jul-Sep;67(3): 283-288.
23. Dacic-Lepara S, **Lepara O**, Mujezinovic A. The Relationships Between Concentrations of Particulate Matter (Pm2.5 And Pm10) and Meteorological Parameters in the Sarajevo Canton: Seasonal Variations. 4. SEERC Conference Istanbul 202. Proceeding e-Book:99-107.
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26. Halilčević M, Begić E, Džubur A, Džubur A, Aziri B, Durak-Nalbantić A, Begić A, Brkić A, Gogić E, **Lepara O**. Relation between thyroid hormonal status, neutrophil-lymphocyte ratio and left ventricular systolic function in patients with acute coronary syndrome. Med Glas (Zenica) 2023; 20(1).
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28. Fajkić A, **Lepara O**, Dervišević A, Kurtović A, Džubur A, Ejubović M, Dozić A, Mujaković A, Jahić R. Relationship between Adipocytokines, Nontraditional Anthropometric Indices and Coronary Heart Disease Risk in Diabetic Patients. Curr Health Sci J. 2022 Oct-Dec;48(4):365-372.
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30. Zaciragic A., Dervisevic A., Avdagic N., Babic N., Valjevac A., **Lepara, O** & Huskic, J. The impact of type 2 diabetes duration on serum asymmetric dimethylarginine and C-reactive protein concentration in Bosnian patients. *Endocrine Regulations*. 2022; 56(4), 271-278.
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32. Lepara Z, Alić J, **Lepara O**, Spahović H & Fajkić, A. Antioxidant status in patients with bladder cancer regarding cancer stage and grade. *Asian Journal of Urology*. 2022.
33. Zaciragic A, Valjevac A, Dervisevic A, Fajkic A, Spahic S, Jadric R, Hasanbegovic I, **Lepara O**. Traditional and Non-traditional Lipid Profiles in Bosnian Patients with Probable Alzheimer's Disease and Vascular Dementia. *Med Arch*. 2022 Aug;76(4):267-272.
34. Mujaković A, Paralija B, **Lepara O**, Fajkić A, Kurtović A, Prnjavorac B, Begić E, Gondžetović-Ćorić N. Can neutrophil-to-lymphocyte ratio and proatherogenic risk factors improve the accuracy of pneumonia severity index in the prediction of community acquired pneumonia outcome in healthy individuals? *Med Glas (Zenica)*. 2022 Aug 1;19(2).
35. Nišić F, Pidro A, **Lepara O**, Fajkić A, Mioković AP, Suljić E, Nišić A, Kovačević I. Effect of pan-retinal laser photocoagulation on intravitreal vascular endothelial growth factor concentration in proliferative diabetic retinopathy. *Rom J Ophthalmol*. 2022 Jul-Sep;66(3):265-270.
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37. Zaciragic A, Dervisevic A, Valjevac A, Fajkic A, Spahic S, Hasanbegovic I, Jadric R, **Lepara O**. Difference in the Standard and Novel Lipid Profile Parameters Between Patients With Alzheimer's Disease and Vascular Dementia Stratified by the Degree of Cognitive Impairment. *Mater Sociomed*. 2022 Jun;34(2):100-106.
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40. Lepara O, Musić M., Začiragić A, Fajkić A, Dervišević A, Džubur A & Ibragić S. CORRELATION BETWEEN SERUM ACTIVITY OF LIVER ENZYMES AND COGNITIVE IMPAIRMENT IN PATIENTS WITH ALZHEIMER'S DISEASE AND VASCULAR DEMENTIA. *Acta Medica Saliniana*. 2021. 51(1/2), 41-45.
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42. Pepić E, Šečić D, **Lepara O**, Kapić-Pleho A, Kurtagić-Pepić E, Mušanović J, Metović, Džubur A , Naser N., Panjeta M , Alić-Džubur A, Voljevica A. Smoking effect on the cadmium and zinc concentration in smokers and nonsmokers. *Bulletin of the Chemists and Technologists of Bosnia and Herzegovina* 2021,57, 17-26.
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44. **Lepara O**, Ibragić S, Rebić, Zukić E, Krupić F, Džubur, A, Fajkić A. Pepić E, Novaković, A, Gojak R. Serum levels of non-enzymatic antioxidants in female dementia patients with respect to the degree of cognitive impairment. *Bulletin of the Chemists and Technologists of Bosnia and Herzegovina* 2021, 56, 21-28.
45. Milišić E, Alić J, Zvizdić Z, **Lepara O**, Jonuzi A, Milišić L, Fajkić A. Urinary neutrophil gelatinase-associated lipocalin level as a biomarker of acute kidney injury following extracorporeal shock wave lithotripsy. *Cent European J Urol*. 2021;74(4):579-587.
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47. Fejzić A, Tihak A, Boskovic D, **Lepara O**. Evaluation of Vectorcardiogram Perspectives in Education and Clinical Practice. *International Conference on Medical and Biological Engineering. CMBEBIH* 2021. pp 28-36.
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