

PERSONAL INFORMATION

Orhan Lepara



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 State personal website(s) : None

Passport number : B0827004

Sex Male | Date of birth 27/11/1978 | Nationality Bosnian

POSITION Full Professor

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

WORK EXPERIENCE

(2023 -)

Full professor at Department of Human Physiology

Faculty of Medicine University of Sarajevo

Ceklauša 90, 7100 Sarajevo Bosnia and Herzegovina; www.mf.unsa.ba

(2019 - 2023)

Associate professor at Department of Human Physiology

Faculty of Medicine University of Sarajevo

Ceklauša 90, 7100 Sarajevo Bosnia and Herzegovina; www.mf.unsa.ba

education of medical, dentistry, pharmacy and faculty of health studies students in the subject of human physiology; preparation and conduction of research projects. my research interest encompasses the fields of inflammatory markers, markers of endothelial dysfunction and markers of oxidative stress in pathophysiology neurodegenerative disease, as well as in of type 1 and type 2 diabetes mellitus; cardiovascular physiology and pathophysiology; cardiovascular risk prediction and prevention, physiology and pathology of the kidney

(2014 - 2019)

Assistant Professor at Department of Human Physiology

Faculty of Medicine University of Sarajevo

Ceklauša 90, 7100 Sarajevo Bosnia and Herzegovina; www.mf.unsa.ba

- education of medical, dentistry, pharmacy and faculty of health studies students in the subject of human physiology; preparation and conduction of research projects.

Business or sector Education and Science

(2009 – 2014)

Senior Teaching and Research Assistant at Department of Human Physiology

Faculty of Medicine University of Sarajevo

Ceklauša 90, 7100 Sarajevo Bosnia and Herzegovina; www.mf.unsa.ba

- education of medical, dentistry, pharmacy and faculty of health studies students as well as applied medicine students for the subject of human physiology

Business or sector Education and Science

Junior Teaching and Research Assistant at Department of Human Physiology

(2005 – 2007)

Faculty of Medicine University of Sarajevo

Ceklauša 90, 7100 Sarajevo Bosnia and Herzegovina; www.mf.unsa.ba

- education of medical, dentistry and pharmacy faculty of health studies students as well as applied medicine students for the subject of human physiology

Business or sector Education and Science

EDUCATION

13. 01. 2014.

Doctoral (PhD) Degree

PhD thesis entitled “An Assessment of the role of beta estradiol in oxidative stress in patients with probable Alzheimer’s disease and vascular dementia”

Faculty of Medicine University of Sarajevo, Bosnia and Herzegovina

2008-2013

July 2013

Resident of Internal medicine

Specialist of Internal medicine

Specialization authorised by Faculty of Medicine University of Sarajevo, Bosnia and Herzegovina and conducted at Clinical Centre University of Sarajevo, Bosnia and Herzegovina

02. 04. 2009.

Master of Science (MSc) degree

MSc thesis entitled “ Serum concentration of C-reactive protein and homocysteine in patients with probable Alzheimer’s disease ”

Faculty of Medicine University of Sarajevo, Bosnia and Herzegovina

2005-2007

Postgraduate Studies – Experimental Laboratory Medicine

Faculty of Medicine University of Sarajevo, Bosnia and Herzegovina

1997-2005

Medical Doctor

Faculty of Medicine University of Sarajevo, Bosnia and Herzegovina

TRAINING

01 May – 29 June 2012,
Institute of Cell Physiology and
Metabolism, Faculty of Medicine
in Geneva

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

The polymerase chain reaction (PCR) technique

PERSONAL SKILLS

Mother tongue(s): **Bosnian**

Other language(s)	UNDERSTANDING		SPEAKING		WRITING
	Listening	Reading	Spoken interaction	Spoken production	
English	B2/C1	B2/C1	B2/C1	B2/C1	B2/C1
German	A1/A2 equivalent				

Communication skills

- good communication skills gained through my experience as Lecturer and Assistant in work with students as well through involvement in numerous research teams

Organisational / managerial skills

- organizational and planning skills (planning and implementation of scientific projects)

Job-related skills

- commitment in acquiring new knowledge and information
- easiness in adopting theoretical and practical aspects of work
- independence in reporting experiment results, ability to discuss them and draw conclusions in exact and scientifically articulated manner
- excellent writing skills

Computer skills

- excellent command of Microsoft Office™ tools; familiar with work in SPSS program

Other skills

- plays accordion

Driving licence

Driving licence category
B

Projects

- The importance of brain neurotrophic factor and apelin as determinants of healthy aging in the elderly, funded by The Ministry of Education, Science and Youth of Sarajevo Canton
- Serum concentration of malondialdehyde and interleukin 17 in patients with probable Alzheimer's disease and vascular dementia
- The importance of serum levels of heart-type and braintype fatty acid-binding proteins in differentiating patients with probable Alzheimer's disease and vascular dementia
- Qualitative and quantitative analysis of finger and palmar dermatoglyphics in patients with breast cancer, funded by Federal Ministry of Science and Education of Bosnia and Herzegovina.
- As a researcher I was involved in research study under the title « Endothelin-1, N-terminal brain natriuretic peptide and adipocytokines serum levels in rats with streptozotocin induced diabetes mellitus», funded by Federal Ministry of Science and Education of Bosnia and Herzegovina.
- As a researcher I was involved in research study under the title « The impact of the type of training on the oxidative status in elite athletes», funded by Federal Ministry of Science and Education of Bosnia and Herzegovina.
- «Tight junction signaling in the adaptation of insuling producing beta-cells», SCOPES (Scientific co-operation between Eastern Europe and Switzerland)

Conferences

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,

Memberships

Member of the Association of biochemists and molecular biologists in Bosnia and Herzegovina
Member of the Laboratory for Fusion of Artificial Intelligence to Bioinformatics and Biomedical Engineering

References / Publications

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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).
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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).
27. Mujaković A, Paraliya B, Prnjavorac B, **Lepara O**, Fajkić A, Begić E & Odošić, M.. Parameters in predicting the risk of a prolonged hospital stay in patients with acute exacerbation of chronic obstructive pulmonary disease: a single-centre experience. Med Glas (Zenica). (2023); 20(1).
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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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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39. Džubur A, Lisica D, Hodžić E, Begić E, **Lepara O**, Fajkić A, Gogić E, Ejubović M. Relationship between depression and quality of life after myocardial infarction. *Med Glas (Zenica)*. 2022 Feb 1;19(1).

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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43. Kurtović A, Fajkić A, Pepić E, Pleho-Kapić A, **Lepara O**, Lazzari D, Milaimi A, Milaimi A, Meštrovac A, Dervišević A, Mačkić-Đurović M, Mušanović J. Relationship between platelet indices and lipid status in chronic hookah consumption. *Bulletin of the Chemists and Technologists of Bosnia and Herzegovina* 2021, 56, 29-34.
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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48. Zvizdić F, Begić E, Dilić M, Sokolović Š, **Lepara O**. Effect of atorvastatin on systolic and diastolic function in patients with heart failure with reduced ejection fraction (HFrEF). *Med Glas (Zenica)*. 2021;18(2):357-361.
49. Grbic K, Mujakovic A, **Lepara O**, Lepara Z, Begic E, Krupic F. Biomarker Potential of Preoperative Tumor Size in Determination of the Lymphovascular Invasion in Squamous Cell Lung Cancer and Lung Adenocarcinoma. *Int J Appl Basic Med Res*. 2021;11(2):95-99.

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