

Dr.Semira Galijasevic,
Professor, Sarajevo School of Science and Technology
Sarajevo, Bosnia
semira.galijasevic@ssst.edu.ba

Research interest

Inhibition of peroxidases by melatonin and development of other peroxidase inhibitors and its involvement in inflammatory response.

Role of myeloperoxidase in promoting oxidative stress in vivo and its potential participation in cardiovascular diseases.

Mechanism of NO scavenging and modulations that occurs during an inflammatory processes.

Regulation of nitric oxide synthase catalytic ability and nitric oxide production by mammalian peroxidases.

Method development and quantifications of intracellular free radical generation using microelectrodes

Mechanism of nitrogen oxide chemistry in relationship to inflammatory markers and modulation of inducible Nitric Oxide Synthase Activity

Positions and Employment

2020-current **Professor**, School of Medicine, University Sarajevo School of Science and Technology, Bosnia, Graduate program, Faculty of Science, University of Sarajevo, Bosnia

2017-current **Executive Committee member**, Association of Medical Schools of Europe, Berlin, Germany

2014-2022 **Dean**, School of Medicine, University Sarajevo School of Science and Technology, Bosnia

2014-2020 **Associate professor**, School of Medicine, University Sarajevo School of Science and Technology, Bosnia

2014 **Associate professor**, Department of Chemistry, Faculty of Science, Sarajevo, Bosnia

2009-2014 **Assistant Professor**, Department of Chemistry, Faculty of Science, Sarajevo, Bosnia

2002-2008 **Research Associate, American Heart Association grantee**, School of Medicine, Wayne State University, Detroit, MI, USA

2002 Lecturer, Macomb College, Warren, MI, USA

1997-2002 **Graduate Research/Teaching Assistant**, College of Science, Wayne State University Detroit, MI, USA

1991-1996 **Teaching Assistant**, University of Sarajevo, Sarajevo, Bosnia

Teaching experience

Undergraduate courses

General Chemistry with stoichiometry, Introduction to laboratory techniques, Methods in scientific research

Medical Chemistry, Medical Biochemistry, Free Radicals in Chemistry, Purification Techniques of Biomolecules

Graduate courses

Methods in scientific research, Computational chemistry, Redox processes in biological systems, Enzymology

Student award for the best professor in the School of Medicine, SSST during the academic year 2023

Mentoring ungraduated and graduate students

N.Šehić (2024) PhD Internship, "Next Generation Macrocycles to Address Challenging Protein Interfaces" University of Vienna, Vienna, Austria

A.Šenderović -current PhD candidate " Determination and analysis of the level of MPO and metabolites in the plasma of subjects with chronic coronary syndrome and metabolic disorders" School of Medicine, SSST

•S.Ljubijankić,(2022) "Formation and inhibition of beta amyloid proteins with copper in the presence of oxidative stress", PhD , University of Banja Luka, Bosnia

- M.Muhidinovic (2019) Sorbonne University, France student internship “The mechanism of hemoglobin degradation reaction under the conditions of oxidation stress” successfully defended at Sorbonne University, France
- N.Jelić-Knezović (2018)“Concentration of nitrite, nitrate and myeloperoxidase in metabolic disorders”, PhD degree University of Sarajevo, Bosnia
- E.Civić,(2018)“ Qualitative and quantitative determination of melatonin in the presence of oxidative stress catalyzed with metals and its possible functions in plants” PhD degree, University of Banja Luka, Bosnia
- S. Gvožđar (2104)“Halogenation of taurine in the presence of physiological concentration of halogen and pseudohalogen acids”, Master degree , University of Sarajevo, Bosnia
- E.Civić-Hodžic (2013)“Mechanistic and simulation studies of lactoperoxidase system “Master degree, University of Sarajevo, Bosnia
undergraduate thesis:
- L. Karahodza (2022)“Oxidative stress related to psychiatric disorders” undergraduate thesis
- B. Murić (2022) Biomarkers and COVID-19: A Systematic Review
- A. Dokso (2022) Correlation between the levels of total oxidative stress and different stages of malignant melanoma
- A. Jahic (2022) Molecular Mechanism of Hemoglobin Degradation in the Presence of Hydrogen Peroxide and Hypochlorous Acid
- S. Grizić (2022)Effects of inhibition of melatonin and serotonin levels on copper amyloid beta formation and aggregation
- L. Glavinić (2020) Relationship between hematological parameters, myeloperoxidase, nitrites and nitrates in type 2 diabetes mellitus patient

Other Experience and Professional Development

2023	Digital Transformation for Healthcare Professions: Patient Care, Education and Research, conference and training, University of Medicine and Pharmacy of Iasi, Romania,
2023	Joint Research Center, European Commission training: The practice of Informing Policy through evidence, Western Balkan, Sarajevo, Bosnia
2023	Regional conference: Responding to the public health challenge of mixed migration, Danish Refugee council, Sarajevo, Bosnia
2022	ERASMUS Staff Training Week at the University of Buckingham, UK
2022	ERASMUS Staff Training Week at the University of Poitiers, France
2022	Association of Medical Schools of Europe Conference “Faculty development and medical education”, AMSE
2022	Strengthening and connecting eco-systems of science for policy across Europe, European Commission, Joint Research Centre – the Commission’s science and knowledge service
2021-current	Women Mentoring Network program -Mentor, organized by Adiko bank and Deloitte, UNDP project, Sarajevo, Bosnia
2021	Association of Medical Schools of Europe Conference “Medical Schools of the Future – Towards Purposeful Innovation” AMSE2021
2021	4th International hybrid Conference on Science Advice to Governments, International conference on science advice to governments— Build Back Wiser: Knowledge, Policy and Publics in Dialogue with the support of the Chief Science Advisor of Canada, Montréal, Québec, Canada
2021	Keystone Symposia Molecular and Cell Biology, scholarship for conference Diabetes: Many Faces of the Disease, sponsors AstraZeneca, NovoNordisk
2020	The Commission member for the accreditation of the second cycle of studies of the Faculty of Medicine, SSST
2019	TAIEX workshop on recognition of professional qualifications of doctors and dentists in the EU, organized in cooperation with the Ministry of Civil Affairs of Bosnia and Herzegovina, Sarajevo

2019	Association of Medical Schools of Europe – Executive committee meeting, Berlin, Germany
2019	Institutional accreditation, Sarajevo Medical School, SSST committee member
2018	AMSE conference "Best Practice for Research Teaching in Medical Education", Pécs, Hungary
2018	Second teachers conference STEM EDUCATION-Science, Technology, Engineering and Mathematics: Education for Global Leadership, SSST, Sarajevo, BiH
2018	Association of Medical Schools of Europe, Executive committee meeting, Pécs, Hungary
2017	AMSE meeting "Quality assurance initiative of AMSE, , Berlin, Germany
2017	Association of Medical Schools of Europe, Executive committee meeting, Berlin, Germany
2012	Visiting Scientists, University of Natural resources and Life Sciences, Biochemistry Division, Vienna, Austria
2010	JoinEU-SEE Scholarship scheme for academic exchange between EU and Western Balkan countries, Visiting Scientist, Medical University of Graz, Austria,
2008	A National Symposium on Inflammation and Disease Progression, , Wayne State University, Detroit , MI ,USA
2004-2005	Outstanding Research Associate, Mott Center for Human Growth and Development, Wayne State University, Detroit, MI
2003	Guest Lecturer at the University of Sarajevo, Bosnia and Herzegovina; funded by the World University Services (WUS), Austrian Committee, and supported by Austrian Federal Ministry for Foreign Affairs,
2019-current	Scientific editor, PLOSONE Journal Reviewer for a number of scientific journals and conferences
2012-current	Science Editor, Bulletin of Chemist and technologist of B&H, Publisher: Faculty of Natural Sciences, University of Sarajevo

Education

PhD in Chemistry, Wayne State University, College of Science, Department of Chemistry, Detroit, MI, USA	05/2002
B.Sc. in Chemistry University of Sarajevo, Sarajevo, Bosnia	05/1991

Membership in Organizing and Scientific Committees

- Scientific committee member Congress of Chemists and Chemical Engineers of Bosnia and Herzegovina with International participation, October 2022,2024 Sarajevo, Bosna and Hercegovina
- Organizing Committee member,5th Mediterranean Forum Sarajevo, Smart Health and challenge panel October, 2021, Sarajevo, Bosnia
- Organizing Committee member, 4th Mediterranean Forum Sarajevo-Dubrovnik Constellation, October, 2020, Sarajevo, Bosnia
- Scientific committee member Congress of Chemists and Chemical Engineers of Bosnia and Herzegovina with International participation, October,2020 Sarajevo, Bosna and Hercegovina
- Organizing Committee and Scientific committee member Congress of Chemists and Chemical Engineers of Bosnia and Herzegovina with International participation, October,2018 Sarajevo, Bosna and Hercegovina
- Program Committee member, *International Conference on Medical and Biological Engineering*, Sarajevo, CMBEBIH 2017

- President of the Organizing Committee, Congress of Chemists and Chemical Engineers of Bosnia and Herzegovina with International participation, October, 2014-2016, Sarajevo, Bosna and Hercegovina
- Member of Scientific Committee, *International Symposium on Sustainable Development [ISSD 2014] 'Biotechnology for Sustainable Development'*, 2012, 2914 Sarajevo, Bosna and Hercegovina
- President of the Organizing Committee, Congress of Chemists and Chemical Engineers of Bosnia and Herzegovina with International participation, October, 2014, Sarajevo, Bosna and Hercegovina

Funded research projects

Ministry of Science and Higher Education, Sarajevo Canton, Role: Principal Investigator, (2023-2024)
 Title: Myeloperoxidase and inducible synthase of nitric oxide as biomarkers of inflammation in subjects with chronic coronary syndrome and diabetes mellitus type 2

COST Action (CA21162) Establishing Pan –European Network on Computational redesign of Enzymes (COENZYME) 2022-2026 (participant)

EU Jean Monnet Module of the Erasmus+, Role: Coordinator (2022-2024)
 Title: European Public Health and Migrations project EUPHAM

Ministry of Education and Science, Bosnia Role: Principal Investigator, (11/2019-11/2021)
 Title: Influence of chemical and biologically active substances on the microbiological and physiological processes of the urogenital tract, as well as on the function of the reproductive system

Ministry of Civil Affairs, Bosnia Role: Principal Investigator, (2019-2020)
 Title: Air quality and its effect on population health with focus on COPDs

COST Action-Multi-target paradigm for innovative ligand identification in the drug discovery processes 2016-2020, EU project, participant, 2016-2020

Federal Ministry of Education and Science, Bosnia Role: Principal Investigator, (2012-2013)
 Title: Inhibition of lactoperoxidase metal center: reaction mechanism and structure of metal center of enzyme

American Heart Association grant, USA Role: Principal Investigator, (01/10/2006-12/31/2007)
 Title: Modulation of inducible Nitric Oxide Synthase Activity

American Heart Association grant, USA Role: Principal Investigator, (01/01/2008-12/31/2008)
 Title: Modulation of Myeloperoxidase Activity by Peroxynitrite

National heart, lung and blood institute, Bethesda, MD, USA (11/1/2002 - 6/30/2005), Role: Participant
 Title: Regulation of myeloperoxidase catalysis by nitric oxide

National Science foundation, Alexandria, Virginia, USA (02/02/1999 - 6/30/2002), Role: Participant
 Title: Gated Electron Transfer in Copper(II)/(I) Systems

1. Galijašević, S., Burović, S., Stambolić, A., Mikićanin OE. (2022) "Phytomelatonin: Recent Advances—Systematic Review" Scientific-Expert Conference of Agriculture and Food Industry, 387-400
2. Ljubijankić, S., Galijašević, S., Plavšić-Davidović, B., Balaban, M., Ljubijankić, N. (2022) "Synthesis, IR characterization and antioxidant capacity of Cu(II) complexes with amino acids and melatonin" *Bulletin of the Chemists and Technologists of Bosnia and Herzegovina*, 58, 19-32
3. Balihodžić, A., Ibrišimović, Mehmedinović, N., Tinjić, S., Madacki Todorović, K., Galijašević, S., Ibrišimović, M. (2021) "Physiological imbalance of urogenital microbiota due to supplementation with diazepam as trigger for development of infectious disease" *International Journal of Recent Scientific Research*, Vol. 12, Issue, 09 (C), pp. 43110-43116,
4. Balihodžić, A., Ibrišimović, Mehmedinović, N., Tinjić, S., Galijašević, S., Madacki Todorović, K., Eminović, I., Hasanbegović, L., Ibrišimović, M. (2021) Impact of diuretics on metabolic activity of urogenital tract microbiota in women. *Intl. Journal of Engi. and Advanced Technology*, Volume 11, pp 27-33
5. Hodžić, E., Galijašević, S., Balaban, M., Rekanović, S., Makić, H., Kukavica, B., Mihajlović, D. (2021) "The protective role of melatonin under heavy metal-induced stress in *Melissa officinalis*" *Turk J Chem.* 2021; 45(3): 737–748.
6. Galijasevic, S., Muhidinovic, M., Grzić S. (2020) "Peroxidase activity of hemoglobin and heme destruction" *Bulletin of the Chemists and Technologists of Bosnia and Herzegovina*, 54, 13-18
7. Ljubijankić N., Galijasevic, S. (2020) "Synthesis and characterization of Fe(III) complex with thiosemicarbazide-based ligand" *Bulletin of the Chemists and Technologists of Bosnia and Herzegovina*, 54, 19-24
8. Galijasevic, S. (2018) The development of myeloperoxidase inhibitors. *Bioorganic & Medicinal Chemistry Letters*, 2019 Jan 1;29(1):1-7.
9. Jelić-Knezović, N., Galijašević, S., Lovrić, M., Vasilj, M., Selak, S., Mikulić, I. (2018) Levels of nitric oxide metabolites and myeloperoxidase in subjects with type 2 diabetes mellitus on metformin therapy *Experimental and Clinical Endocrinology & Diabetes*, 12 Mar 2018, 127(1):56-61
10. Hodžić, E., Balaban M., Šuškalović, N., Galijašević, S., Hasanagić, D., Kukavica, B. (2019) Antioxidative response of *Melissa officinalis* L. and *Valeriana officinalis* L. leaves exposed to exogenous melatonin and excessive zinc and cadmium level. *J. Serb. Chem. Soc.* Vol 84, No 1, 11-25,
11. Topcagić A., Cavar Zeljković S, Karalija E, Galijasevic S, Sofić E (2017) Evaluation of phenolic profile, enzyme inhibitory and antimicrobial activities of *Nigella sativa* L. seed extracts. *Bosn J Basic Med Sci* ; Vol. 17 pp. 286-294.
12. Cipurković, A., Horozic, E., Ljubijankić, N., Odobasic, A., Galijasevic, S., Saletović, M. (2017) "Synthesis and spectral characterization of Fe(II) and Mn(II) complexes with oral fluorouracil pro-drug capecitabine" *R. Journal of Chemistry*, 10(4), 1381-1390
13. Ostojic J., Galijasevic, S., Herenda S., Galic S., Milos M. (2016) "Inhibition of horseradish peroxidase activity by boroxine derivative, dipotassium trioxohydroxytetrafluorotriborate $K_2[B_3O_3F_4OH]$ " *Journal of Chemistry*, Volume 2017, Article ID 8134350, 7 pages,
14. Balihodžić, A., Henić, H., Maltez, N., Mrzić, A., Musić, E., Omerbašić, Z., Salhab, A., El-Amin Zeid, M., Ibrišimović-Mehmedinović, N., Galijasevic, S., Ibrišimović, M. (2017). "Factors Affecting Total Protein Extraction from Human Leukocytes". *European Journal of Scientific Research*. 144. 159-167.
15. Galijasevic, S. (2016) "Many roles of melatonin: diversity and complexity of reaction pathways" *Bulletin of the Chemists and Technologists of Bosnia and Herzegovina*, 48, 51-58, Online ISSN: 2232-7266,
16. Hadžibegović Z., Salibašić Dž., Galijašević S. (2014) "Knowledge of Atomic Structure and Visualization: A Research Results from Questionnaire with First-year Chemistry Students" 43, 49-56.
17. Galijašević, S., Hodžić, E. (2014). "Melatonin mediates classic lactoperoxidase catalytic mechanism" *International Journal of Pharmacy*, 4(1): 1-6 (ISSN 2249-1848;)
18. Galijašević, S. (2013). "Thermodynamic and electron-transfer properties of copper(II/I) polyaminothioether complexes" *Transition Metal Chemistry* 38, (8), 883-8906 (ISSN 2249-1848;)
19. Galijašević, S. (2013). "Myeloperoxidase interactions with nitric oxide: A review of mechanistic pathways" *Bulletin of the Chemists and Technologists of Bosnia and Herzegovina*, 40 1-8. Print ISSN: 0367-4444; Online ISSN: 2232-7266;
20. Hadžibegović, Z., Galijašević, S. (2013). 100 Years Anniversary of the Bohr Model of the Atom: How Chemistry Freshmen Understand Atomic Structure of Matter. *Bulletin of the Chemists and Technologists of Bosnia and Herzegovina*, 40, 51-56. (Print ISSN: 0367-4444; Online ISSN: 2232-7266;
21. Rimpapa, Z., Pleho-Kapić, A., Galijašević, S., Šapčanin, A., Korać, F. (2013). Change in Acidity of L-Ascorbic Acid in the Mixed Solvent DMSO-Water Followed by Conductometric Determination of Dissociation Constants. *Bulletin of the Chemists and Technologists of Bosnia and Herzegovina*, 40, 35-38. (Print ISSN: 0367-4444; Online ISSN: 2232-7266)
22. Galijašević S. (2012) Theoretical Studies of Structures and Thermodynamic Parameters of Melatonin and its Metabolites: N^1 -Acetyl- N^2 -formyl-5-methoxy kynuramine and N^1 -Acetyl methoxykynuramine, *Bulletin of the Chemists and Technologists of Bosnia and Herzegovina*, 39, 39-43. (Print ISSN: 0367-4444; Online ISSN: 2232-7266;)

23. Gojak, S., Galijašević, S., Hadžibegović, Z., Zejnilagić-Hajrić, M., Nuić, I., Korać, F. (2012). Integrated knowledge of physics and chemistry: case of Physical Chemistry course, *Bulletin of the Chemists and Technologists of Bosnia and Herzegovina*, 38, 43-51.(Print ISSN: 0367-4444; Online ISSN: 2232-7266;)
24. Galijašević, S., Hadžibegović, Z. (2012). Question of Mobility Pilot Study: Students' Competency, Capacity and Reality. *International Journal of Education*, 4(1), 47-59. (ISSN 1948-5476).
25. Galijašević, S. (2012). Structure of blue copper proteins: electron-transfer kinetics of Cu(II/I) copper complex with macrocyclic ligand with N₂S₂ donor set *Bulletin of the Chemists and Technologists of Bosnia and Herzegovina* 38, 25-30.(Print ISSN: 0367-4444; Online ISSN: 2232-7266;)
26. Galijašević, S., Maitra, D., Lu, T., Slišković, I., Abdulhamid, I., Abu-Soud, H. (2009) Myeloperoxidase interaction with peroxynitrite: chloride deficiency and heme depletion. *Free Radical Biology and Medicine*, 47, (4), 431–439 (ISSN 2249-1848)
27. Galijasevic, S., Abdulhamid, I., Abu-Soud, H. M. (2008) Potential Role of Tryptophan and Chloride in the Inhibition of Human Myeloperoxidase. *Free Radical Biol. Med*, vol. 44, 1570-1577;
28. Galijasevic, S., Abdulhamid, I. Abu-Soud, H. M. (2008) Melatonin is potent inhibitor of Myeloperoxidase. *Biochemistry* 47(8):2668-2677
29. Lu, T., Galijasevic, S., Abu-Soud H. M. (2008) Analysis of the Mechanism by which Melatonin Inhibits Human Eosinophil Peroxidase, *British Journal of Pharmacology* Volume: 154 Issue: 6, 1308-1317
30. Galijasevic, S., Proteasa, G., Abdulhamid, I., Abu-Soud, H. M. (2007) The potential role of nitric oxide in substrate switching in eosinophil peroxidase *Biochemistry* 46(2):406-15
31. Proteasa, G., Tahboub, Y., Galijasevic, S., Raushel, F. M., Abu-Soud, H. M. (2007) Kinetic evidence supports the existence of a second halide-binding site and its influence on heme pocket microenvironment of the human Myeloperoxidase. *Biochemistry* 46(2); 398-405
32. Galijasevic, S., Saed, G. M., Hazen, S. L., Abu-Soud, H. M. (2006) Myeloperoxidase Metabolizes Thiocyanate in a Reaction Driven by Nitric Oxide. *Biochemistry* 45, 1255-1262
33. Saed, G.M., Diamond, M.P., Galijasevic, S. Abu-Soud, H. M. (2005) Measurement of Oxygen and Nitric Oxide Levels *In Vitro and In Vivo. Fertil. and Steril.* 81, 235-238
34. Tahboub, Y.R., Galijasevic, S. Diamond, M. P. Abu-Soud, H. M. (2005) Thiocyanate modulates the catalytic activity of mammalian peroxidases. *Journal of Biological Chemistry* 280, 26129-26136
35. Galijasevic, S., Diamond, M. P., Abu-Soud, H. M. (2004) High dissociation rate constant of ferrous-dioxy complex linked to the catalase like activity in lactoperoxidase. *Journal of Biological Chemistry* 279, 39465-39470
36. Galijasevic, S., Saed, G.M. Diamond, M.P. Abu-Soud, H. M. (2003) Myeloperoxidase up-regulates the catalytic activity of inducible nitric oxide synthase by preventing the nitric oxide feedback inhibition. *Proceedings of National Academy of Sciences of U S A.* 100, 14766-14771
37. Galijasevic, S., Krylova, K., Koenigbauer, M., Heeg, M. J. Ochrymowycz, L. A., Taschner, M. J. Rorabacher, D. B. (2003) Chelate ring sequence effects on thermodynamic, kinetic and electron-transfer properties of copper(II/I) system involving macrocyclic ligands with S₄ and NS₃ donor set. *Journal of Chemical Society, Dalton Trans.*, 1577-1586

b) *Conferences and abstracts*

1. Burović, S., Dokso, A., Galijašević, S. Correlation between the amount of total oxidative stress and different stages of malignant melanoma ,4th International Congress of Chemists and Chemical Engineers of Bosnia and Herzegovina, Sarajevo, July 2022.
2. Galijašević, S., Burović, S., Stambolić, A., Omanović-Miklićanin, E., Phytomelatonin: Recent advances – Systematic review (32nd International Scientific-Expert Conference of Agriculture and Food Industry Sarajevo, Dec, 2022
3. Galijasevic S. The role of oxidative stress in SARS-CoV-2 infection: possible mechanisms. Conference, What have we learned about consequences of the COVID-19 pandemic? Invited speaker *International academy of science and arts ,Bosnia*, Tuzla, 22-23, October 2021
4. Galijasevic S. Myeloperoxidase, oxidative stress, and diseases- can we stop it? *21st International Conference on Oxidative Stress Reduction, Redox Homeostasis and Antioxidants - Paris Redox 2019*, , Paris, France in June 20-21, 2019. Invited speaker
5. Topcagic A., Cavar Zeljkovic S, Karalija E, Galijasevic S, Sofic E, Phenolic content and biological activities of anise seed extracts. *Balkan Botanical Congress*, 10-14. Septembar, 2018, Novi Sad, Srbija
6. Galijasevic, S. Incorporating research into medical curriculum: Sarajevo Medical School experience Prof. Semira Galijasevic. *Association of Medical Schools of Europe (AMSE) conference "Best Practice for Research Teaching in Medical Education"* 4 - 6 October 2018, Pécs, Hungary
7. Jelic-Knezovic, N., Galijasevic, S., Vasilj, M., Azinovic, I., Mikulic, I., Markovic, M. (2016), Levels of myeloperoxidase in plasma of patients with Type 2 diabetes mellitus without cardiovascular complications., *The second International Congress of Chemists and Chemical Engineers of Bosnia and Herzegovina*, October 22-24, 2016, Sarajevo, Bosna and Hercegovina
8. Galijašević, S., Cipurkovic, A., Ljubljankic, S., Jadranin, M., Granzov., Ljubijankic, N., (2016)

- Synthesis and characterization of Fe(III) complexes with salicylaldehyde thiosemicarbazone, *The second International Congress of Chemists and Chemical Engineers of Bosnia and Herzegovina*, October 22-24, 2016, Sarajevo, Bosna and Hercegovina
9. Ljevarić, Mrehić, E., Galijasevic, S., Interactions of melatonin and copper(II) melatonin complex with pUC19 DNA (2014) *First International Congress of Chemists and Chemical Engineers of Bosnia and Herzegovina*, October 10-12, 2014, Sarajevo, Bosna and Hercegovina
10. Galijašević, S. (2014) Modeling the catalytic mechanism of lactoperoxidase with estradiols *The 3th International Symposium on environmental protection*, May, 2014, Bihac, Bosnia
11. Galijašević, S. (2014) Inhibition of inflammatory enzyme myeloperoxidase- mechanistic pathway. *The 5th International Symposium on Sustainable Development [ISSD 2014] 'Biotechnology for Sustainable Development'*, May 15-18, 2014 – Sarajevo, Bosnia
12. Galijašević, S., Doluca O., Ljevarić, V., Mrehić E. Copper interactions with DNA in the presence of melatonin. *The 5th International Symposium on Sustainable Development [ISSD 2014] 'Biotechnology for Sustainable Development'*, May 15-18, 2014 – Sarajevo, Bosnia
13. Galijašević, S., Beglerovic B. Formation and characterization of Cu(II) and Cu(I) complexes with L-Tryptophan. *The 5th International Symposium on Sustainable Development [ISSD 2014] 'Biotechnology for Sustainable Development'*, May 15-18, 2014 – Sarajevo, Bosnia
14. Dugandžić V., Ljevarić, V., Galijašević, S. (2014) Theoretical studies of molecular structure and IR spectra of melatonin X. *Susret mladih kemijskih inženjera, 20. i 21.02., Zagreb, Croatia, Abstract book, st.94.* (ISBN 978-953-6470-65-5)
15. Hošić, E., Galijašević, S. (2014) Interplay of molecular mechanism of myeloperoxidase and nitric oxide synthase in regulation of endothelial function, X. *Susret mladih kemijskih inženjera 20- 21.02., Zagreb, Croatia, Book of abstracts st.151.* (ISBN 978-953-6470-65-5)
16. Galijašević, S., Ljevarić, V., Dugandžić, V., (2013) „Melatonin Interactions with Copper (II) Ion” Spectroscopic and DFT Theoretical Studies“, *International Turkish Congress on Molecular Spectroscopy, Istanbul, Turkey, September 15-20, 2013.*
17. Galijašević, S., Hodžić, E., (2013) „Validity of HOMO/LUMO approach Calculations “DFT study of Chemical Reactivity of Melatonin and Its Metabolites: N¹acetyl-N²ormyl-5-metoxo Kynuramine and N¹-Acetyl-5-Metoxokynuramine“, *International Turkish Congress on Molecular Spectroscopy, Istanbul, Turkey, September 15-20, 2013.*
18. Hodžić, E. Galijašević, S. Makić, H. (2012) Molecular modeling as a method of testing melatonin-lactoperoxidase interaction. *Zbornik radova- Proceedings XIV. Ružickini dani 13. – 15. september, 2012. Vukovar. Hrvatska, str. 121-132.* (ISBN (HDKI): 978-953-6894-51-2)
19. Hadžibegović, Z., Zejnilagić-Hajrić, M., Galijašević, S., Nuić, I. (2012). Bologna reform: analysis of chemistry and physics study efficiency at Faculty of Science. *Sixth conference, higher education reform - Continuity of Higher education reform*, Sarajevo, 13. i 14.04. 2012, *Proceedings*, pg. 249-263 (ISBN 978-9958-600-45-6; COBISS.BH-ID 20258566)
20. Nuić, I., Hadžibegović, Z., Zejnilagić-Hajrić, M., Galijašević, S. (2011). Conceptual difficulties and models of solving seen problems with chemistry students at the Faculty of Natural Sciences. *Fifth conference, higher education reform - Further trends in reforming the higher education in accordance to Bologna Principles* Sarajevo, 14. - 15.04. 2011
21. Zejnilagić-Hajrić, M., Hadžibegović, Z., Galijašević, S., Nuić, I. (2012). The importance of integrated knowledge of chemistry and physics of students at the Faculty of Natural sciences in Sarajevo in light of Bologna education model. *Fourth conference, higher education reform Development of systems of quality management in higher education Sarajevo*, 16. - 17.04. 2010
22. Nuić, I., Zejnilagić – Hajrić, M., Hadžibegović, Z., Galijašević, S. (2010). Investigation and analysis of integrated knowledge of chemistry and physics of first study year students at the Faculty of Natural sciences in Sarajevo. *1st Croatian Workshop on Chemical Education, Split, Croatia, Novembar 10-14, 2010*, 49-50.
23. Galijašević, S. (2010) Myeloperoxidase inhibition modulates *in vitro* LDL oxidation. *Invited presentation 1. Congress of medical biochemist of Bosnia and Herzegovina with international participation*, Book of abstracts, pg. 36, Sarajevo, Bosnia
24. S. Galijašević, I. Abdulhamid H. M. Abu-Soud
Melatonin is a potent inhibitor of Myeloperoxidase. *14th Annual Meeting of Society of Free Radical Biology and Medicine, Washington DC, USA, November, 2008, Free Radical Biology & Medicine*, Vol 43, supplement 1, S137, 2007.
25. T. Lu, S. Galijašević, I. Abdulhamid, H. M. Abu-Soud
Analysis of the Mechanism by which Melatonin Inhibits Human Eosinophil Peroxidase
14th Annual Meeting of Society of Free Radical Biology and Medicine, Washington DC, USA, November, 2008, Free Radical Biology & Medicine, Vol 43, supplement 1, S27, 2007.
26. S. Galijašević, I. Abdulhamid H. M. Abu-Soud
Potential Role of Tryptophan and Chloride in the Inhibition of Human Myeloperoxidase

- 14th Annual Meeting of Society of Free Radical Biology and Medicine, Washington DC, USA, November, 2008, *Free Radical Biology & Medicine*, Vol 43, supplement 1, S23, 2007.
27. G. Saed, Z. Jiang, N. Fletcher, S. Galijašević, M. Diamond, H. Abu-Soud
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