

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

## 1. RESEARCH INTEREST

---

Pro-inflammatory enzymes, myeloperoxidase, plays a significant role in immune surveillance and host defense mechanisms. However, increased MPO activity and production of free radical species has been linked to a number of pathologies with compelling evidence in initiation and progression of inflammatory events. Recent research efforts are focused towards deciphering enzyme mechanistic pathways and connection with oxidative stress and design of effective MPO inhibitors that could subdue inflammatory actions of MPO and subsequent development of different pathologies. The second part of research is focused on heme biochemistry under the conditions of oxidative stress.

## 2. EDUCATION

---

**PhD** Wayne State University, School of Science, 1997-2002  
Department of Chemistry, Detroit, MI, USA

**B.Sc.** University of Sarajevo, Faculty of Natural Sciences, 1985-1990  
Sarajevo, Bosnia

## 3. WORK EXPERIENCE

---

2014 – present

**Dean of Sarajevo Medical School** / Sarajevo School of Science and Technology, Sarajevo Medical School, Sarajevo, Bosnia

2020-present

**Professor** / Sarajevo School of Science and Technology, Sarajevo Medical School, Sarajevo, Bosnia

2014 – 2020

**Associate Professor** / Sarajevo School of Science and Technology, Sarajevo Medical School, Sarajevo, Bosnia

2017-Present

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

2014– 2014

**Associate Professor** / University of Sarajevo, Faculty of Natural Sciences, Sarajevo Bosnia

2009 – 2014

**Assistant Professor** / University of Sarajevo, Faculty of Natural Sciences, Sarajevo Bosnia

2012 – 2014

**Assistant Professor** / Faculty of Engineering and Information Technologies, Genetics and Bioengineering, International Burch University, Sarajevo, Bosnia

2010 – 2012

**Assistant professor** / University of Sarajevo Faculty of Education, Sarajevo, Bosnia

2003 – 2008

**Research Associate** / Ob/Gyn Department, School of Medicine, Wayne State University, Detroit, MI, USA

2002 – 2002

**Lecturer** / Macomb College, Warren, MI, USA

1997 – 2002

**Teaching Assistant, Research Assistant** / School of Science, Wayne State University Detroit, MI, USA

1991 – 1996

**Research Assistant** / University of Sarajevo, Faculty of Medicine, Faculty of Pharmaceutical Sciences, Faculty of Agriculture, Sarajevo, Bosnia

#### 4. TEACHING EXPERIENCE

---

##### **a.) undergraduate**

2014-current, *Sarajevo School of Science and Technology, Sarajevo Medical School, Sarajevo, Bosnia*,  
Medical Chemistry, Medical Biochemistry, Free Radicals in Medicine

2008-2014 *University of Sarajevo, Faculty of Natural Sciences, Sarajevo Bosnia*  
General Chemistry, Introduction to laboratory techniques, Free radicals in chemistry, Chemistry of nitrogen compounds

2010-2014 *University of Sarajevo, Faculty of Natural Sciences, Sarajevo Bosnia*  
Graduate courses; Redox processes in biological systems, Computational chemistry

2012-2014 *Faculty of Engineering and Information Technologies, Genetics and Bioengineering, International Burch University, Sarajevo, Bosnia*  
Biochemistry, General Chemistry, Purification Techniques of Biomolecules

2010-2012 *University of Sarajevo Faculty of Education, Sarajevo, Bosnia*  
Chemistry

2002 *Macomb College, Warren, MI, USA*  
Biochemistry, General Chemistry

1997-2002 *School of Science, Wayne State University Detroit, MI, USA*  
General, Organic and Biochemistry, General Chemistry

1991-1996 *University of Sarajevo, Faculty of Medicine, Faculty of Pharmaceutical Sciences, Faculty of Agriculture, Sarajevo, Bosnia*  
Medical Chemistry, Analytical chemistry, Chemistry

##### **b.) graduate**

Current, *Sarajevo School of Science and Technology, Sarajevo Medical School, Sarajevo, Bosnia*  
Scientific research in medicine

2008-2016 *University of Sarajevo, Faculty of Natural Sciences, Sarajevo Bosnia*  
Redox processes in biological systems, Computational chemistry

##### **c.) mentoring**

E.Civić- Hodžić (2019) "Qualitative and quantitative determination of melatonin in the presence of oxidative stress catalyzed by metals and its possible function in plants" *,Doctoral thesis defended*, University Bihac, Faculty of Biotechnology / University Banjaluka, Faculty of Natural sciences

N.Jelić-Knezović(2019) "Nitrite, nitrate and myeloperoxidase concentrations in metabolic disorders", *Doctoral thesis defended*, Sveučilište Mostar, Faculty of medicine , / University of Sarajevo, Faculty of Natural Sciences

S.Ljubijankić "Formation and inhibition of beta amyloid proteins with copper in the presence of oxidative stress ", *doctoral thesis in progress*, University Banja Luka

S. Gvožđar (2105) "Halogenation of taurine in the presence of physiological concentration of halogen and pseudohalogen acids ", *master thesis , defended*, University of Sarajevo, Faculty of Natural Sciences, BiH

E.Civić-Hodžić (2013) "Mechanistic and simulation studies of lactoperoxidase system *master thesis , defended*, University of Sarajevo, Faculty of Natural Sciences

M. Begović "Interactions of melatonin with heme and hemin" - *master thesis*, University of Sarajevo, Faculty of Natural Sciences

D.Rebac ” Analysis of air pollution in Sarajevo Canton in the period from 2016 to 2018 and correlation with chronic obstructive pulmonary diseases” *master thesis in progress* , University of Sarajevo, Faculty of Natural Sciences

M.Muhidinović, student *research practice* Application of spectroscopy methods, Sorbonne Université, Paris, France / Sarajevo School of Science and Technology, Sarajevo Medical School, Sarajevo

Member of Examination Committees for Bachelors, Master and PhD programs, University of Sarajevo and *Sarajevo School of Science and Technology* (30)

## 5. PROFESSIONAL DEVELOPMENT

---

- 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, September, 2019 , Sarajevo
- 21st International Conference on Oxidative Stress Reduction, Redox Homeostasis and Antioxidants - Paris Redox 2019 - Paris, France in June 20-21, 2019
- AMSE conference "Best Practice for Research Teaching in Medical Education"4 - 6 October 2018, Pécs, Hungary
- Second teachers conference STEM EDUCATION-Science, Technology, Engineering and Mathematics: Education for Global Leadership, Maj 22, 2018, SSST, Sarajevo, BiH
- AMSE meeting "Quality assurance initiative of AMSE, 9 September 2017, Berlin, Germany
- EU commission, Workshop Technical assistance on Horizon2020, Novembra, 2014, Sarajevo, BiH
- Visiting Scientists, University of Natural resources and Life Sciences, Biochemistry Division, Vienna, Austria Invited lecture, 22.-29. 09. 2012  
[http://www.chemie.boku.ac.at/fileadmin/\\_/H77/H770/Departmentreport\\_10\\_12.pdf](http://www.chemie.boku.ac.at/fileadmin/_/H77/H770/Departmentreport_10_12.pdf)
- JoinEU-SEE Scholarship scheme for academic exchange between EU and Western Balkan countries, Visiting Scientist, Medical University of Graz, Austria, 14.6.2010-14.7.2010
- Sixth conference, Higher education reform - *Continuity of Higher education reform*, Sarajevo, 13- 14.04. 2012
- Fifth conference, Higher education reform - Further trends in reforming the higher education in accordance to Bologna Principles Sarajevo, 14. -15.04. 2011
- Fourth conference, Higher education reform Development of systems of quality management in Higher education Sarajevo, 16.- 17.04. 2010
- III international workshop *Teachers education*, Zenica ,Bosnia, 22.-23. 04. 2010
- A National Symposium on Inflammation and Disease Progression, April, 2008, Wayne State University, Detroit , MI ,USA
- 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, December 2003.
- Outstanding Research Associate, Mott Center for Human Growth and Development, Wayne State University, Detroit, MI, 2004-2005
- Laboratory Safety Training and Biosafety Training, Wayne State University, Detroit, MI, USA

### **Professional Affiliations**

Association of Medical Schools of Europe, executive board member  
European Medical Association  
International Network for Government Science Advice (INGSA)  
American Chemical Society  
Society for Free Radical Biology and Medicine  
Bosnian-Herzegovinian American Academy of Arts and Sciences (BHAAAS)

## 6. PROFESIONAL ACTIVITIES

---

- Organizing Committee member, 4th Mediterranean Forum Sarajevo-Dubrovnik Constellation, October 23-24, 2020, Sarajevo, BiH
- Lecturio Inc. webinar: Re-envisioning Medical Education - Transforming Constraints into Opportunities, Juli, 22, 2020
- Association of Medical Schools of Europe – executive committee meeting 22. februarr,2019, Berlin, Germany
- AMSE-Executive committee meeting, 6 October 2018, Pécs, Hungary
- AMSE-Executive committee meeting, 9 September 2017, Berlin, Germany
- Organizing Committee and Scientific committee member *Congress of Chemists and Chemical Engineers of Bosnia and Herzegovina with International participation, October 19-21,2018* Sarajevo, Bosna and Hercegovina
- Program Committee member, *International Conference on Medical and Biological Engineering in Bosnia and Herzegovina* 16-18, March, Sarajevo (CMBEBIH 2017)
- President of the Organizing Committee, *Congress of Chemists and Chemical Engineers of Bosnia and Herzegovina with International participation, October 22-24,2016*, Sarajevo, Bosna and Hercegovina
- President of the Organizing Committee, *Congress of Chemists and Chemical Engineers of Bosnia and Herzegovina with International participation, October 10-12,2014*, Sarajevo, Bosna and Hercegovina
- Member of Scientific Committee, *The 5th International Symposium on Sustainable Development [ISSD 2014] 'Biotechnology for Sustainable Development'*, May 15-18, 2014 – Sarajevo, Bosna and Hercegovina
- Editor, Bulletin of Chemist and technologist of B&H, Publisher: Faculty of Natural Sciences, University of Sarajevo
- Scientific editor PLOS ONE
- Reviewer appointed by Federal Ministry of Science and Education, Bosnia-Chemistry for the eighth grade textbook, 2013

## 7. FUNDED PROJECT

---

- **Ministry of Education and Science, Sarajevo Canton**  
Role: PI (2019-2021)  
Title: Effect of chemical and biologically active substances on microbiological and physiological processes on urogenital tract and functions of reproductive systems
- **Ministry of Civil Affairs , BiH**  
Role:PI (2019)  
Title: Air quality and it effect on population health with focus on COPD
- **COST Action**-Multi-target paradigm for innovative ligand identification in the drug discovery processes 2016-2020
- **Ministry of Civil Affairs, BiH**  
Role: Participant, (2016-2017)  
Title: Analysis and mapping of environment toxins and its impact on population of Hadžići
- **Federal Ministry of Education and Science, BiH**, number:05-39-5613/11  
Role: Principal Investigator, (2012/2013)  
Title: Inhibition of LPO metal center: reaction mechanism and structure of metal center of enzyme
- **American Heart Association grant,TX,USA**  
Role: Principal Investigator, (01/10/2006-12/31/2007)  
Title: Modulation of inducible Nitric Oxide Synthase Activity
- **American Heart Association grant, TX, 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

## 8. PUBLICATIONS

---

### a) Original scientific papers

1. Galijasevic, S., Muhidinovic, M., Grizic S. (2020) "Peroxidase activity of hemoglobin and heme destruction" *Bulletin of the Chemists and Technologists of Bosnia and Herzegovina*, 54, 13-18, doi.org/10.35666/ghthb.2020.55.03 **Web of Science Emerging Sources Citation Index, CAS, EBSCO**
2. 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, doi.org/10.35666/ghthb.2020.55.04 **Web of Science Emerging Sources Citation Index, CAS, EBSCO**
3. **Galijasevic, S.** (2018) The development of myeloperoxidase inhibitors. *Bioorganic & Medicinal Chemistry Letters*, 2019 Jan 1;29(1):1-7. **Web of Science, CC Life Science**
4. 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 **Web of Science, CC Life Science**
5. 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, **Web of Science-Science citation index expanded, SCOPUS**
6. Topcagic A., Cavar Zeljkovic S., Karalija E., **Galijasevic S.**, Sofic 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. **Web of Science-Science citation index expanded, Medline/Pubmed**
7. Cipurkovic, A., Horozic, E., Ljubijankic, N., Odobasic, A., **Galijasevic, S.**, Saletovic, 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, **Scopus, CAS**,
8. 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, **Science Citation Index Expanded, Scopus, CAS**
9. Balihodžić, A., Henić, H., Maltez, N., Mrzić, A., Musić, E., Omerbašić, Z., Salhab, A., El-Amin Zeid, M., Ibršimović-Mehmedinović, N., **Galijasevic, S.**, Ibršimović, M. (2017). "Factors Affecting Total Protein Extraction from Human Leukocytes". *European Journal of Scientific Research*. 144. 159-167. **Scopus**
10. **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, **Web of Science Emerging Sources Citation Index, CAS, EBSCO**
11. 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. **Web of Science Emerging Sources Citation Index, CAS, EBSCO**
9. **Galijašević, S.**, Hodžić, E. (2014). "Melatonin mediates classic lactoperoxidases catalytic mechanism" *International Journal of Pharmacy*, 4(1): 1-6 (ISSN 2249-1848;)
10. **Galijašević, S.** (2013). "Thermodynamic and electron-transfer properties of copper(II/I) polyaminothiaether complexes" *Transition Metal Chemistry* 38, (8), 883-8906 (ISSN 2249-1848;)

11. **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;
12. 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;
13. 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)
14. **Galijašević S.**(2012) Theoretical Studies of Structures and Thermodynamic Parameters of Melatonin and its Metabolites: *N*<sup>l</sup>-Acetyl-*N*<sup>2</sup>-formyl-5-methoxy kynuramine and *N*<sup>l</sup>-Acetyl methoxykynuramine, *Bulletin of the Chemists and Technologists of Bosnia and Herzegovina* , 39, 39-43.(Print ISSN: 0367-4444; Online ISSN: 2232-7266;)
15. 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;)
16. **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).
17. **Galijašević, S.** (2012). Structure of blue copper proteins: electron-transfer kinetics of Cu(II/I) copper complex with macrocyclic ligand with N<sub>2</sub>S<sub>2</sub> donor set *Bulletin of the Chemists and Technologists of Bosnia and Herzegovina* 38, 25-30.(Print ISSN: 0367-4444; Online ISSN: 2232-7266; )
18. **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)
19. **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;
20. **Galijasevic, S.**, Abdulhamid, I. Abu-Soud, H. M. (2008) Melatonin is potent inhibitor of Myeloperoxidase. *Biochemistry* 47(8):2668-2677
21. 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
22. **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
23. 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
24. **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

25. 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
26. 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
27. **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
28. **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 Academia of Sciences of U S A.* 100, 14766-14771
29. **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 S<sub>4</sub> and NS<sub>3</sub> donor set. *Journal of Chemical Society, Dalton Trans.*, 1577-1586

*b) Konferencijske publikacije, abstrakti, prezentacije*

1. **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**
2. Topcagic A., Cavar Zeljkovic S, Karalija E, **Galijasevic S.** Sofic E, Phenolic content and biological activities of anis seed extracts. *Balkan Botanical Congress*, 10-14. Septembar, 2018, Novi Sad, Srbija
3. **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
4. 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
5. **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
6. 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
7. **Galijašević, S.** (2014) Modeling the catalytic mechanism of lactoperoxidase with estradiols *The 3th International Symposium on environmental protection*, May, 2014, Bihac, Bosnia
8. **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
9. **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

10. **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
11. Dugandžić V., Ljevarović, 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)
12. 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)
13. **Galijašević, S.**, Ljevarović,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.*
14. **Galijašević, S.**, Hodžić, E.,(2013) „Validity of HOMO/LUMO approach Calculations “DFT study of Chemical Reactivity of Melatonin and Its Metabolites:N<sup>1</sup>acetyl-N<sup>2f</sup>ormyl-5-metoxo Kynuramine and N<sup>1</sup>-Acetyl-5-Metoxokynuramine “, *International Turkish Congress on Molecular Spectroscopy, Istanbul, Turkey, September 15-20, 2013.*
15. 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)
16. 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)
17. 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
18. 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
- 19.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.
20. **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
21. **S. Galijašević, I.** Abdulhamid H. M. Abu-Soud  
Melatonin is a potent inhibitor of Myeloperoxidase.*14<sup>th</sup> 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.*
22. T. Lu, **S. Galijašević, I.**Abdulhamid, H. M. Abu-Soud  
Analysis of the Mechanism by which Melatonin Inhibits Human Eosinophil Peroxidase



- 14<sup>th</sup> 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.
23. **S. Galijašević**, I. Abdulhamid H. M. Abu-Soud  
Potential Role of Tryptophan and Chloride in the Inhibition of Human Myeloperoxidase  
14<sup>th</sup> 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.
24. G. Saed, Z. Jiang, N. Fletcher, **S. Galijašević**, M. Diamond, H. Abu-Soud  
S-nitrosylation of caspase-3 is the mechanism by which adhesion fibroblasts manifest lower apoptosis. 63<sup>rd</sup> Annual ASRM Meeting, 15-17 October 2007, Washington DC, USA, *Fertility and Sterility*, Volume 88, S208 - S209
25. G. Saed, Z. Jiang, N. Fletcher, **S. Galijašević**, H. Abu-Soud, M. Diamond  
Superoxide induces the adhesion phenotype role of hypoxia in the pathogenesis of the adhesion development. 63<sup>rd</sup> Annual ASRM Meeting, 15-17 October 2007, Washington DC, USA, *Fertility and Sterility*, Volume 88, S107 - S107
26. **S. Galijašević** I. Abdulhamid, H. M. Abu-Soud  
Melatonin is a potent Inhibitor of Myeloperoxidase. *Gordon Research Conference-Phagocytes*, West Kingston, RI, USA, June 2007
27. **S. Galijašević**, G. Proteasa, H. M. Abu-Soud  
Nitric Oxide plays a potential role in substrate switching in Eosinophil Peroxidase  
*Fourth International Conference of the Nitric Oxide Society on the Biology, Chemistry and Therapeutic Applications of Nitric Oxide*, Monterey, California, 2006 *Nitric Oxide*, V 14, Is.4, Page 43
28. G. Proteasa, Y. Tahboub **S. Galijašević**, F. Raushel, H. Abu-Soud  
Kinetic evidence supports the existence of a second halide-binding site and its influence on heme pocket microenvironment of the human Myeloperoxidase  
*Fourth International Conference of the Nitric Oxide Society on the Biology, Chemistry and Therapeutic Applications of Nitric Oxide*, Monterey, California, 2006, *Nitric Oxide*, V 14, Iss 4, Pg 76
29. Abu-Soud HM, Proteasa G, Oommen T, **Galijasevic S**.  
The potential role of nitric oxide in modulating the catalytic activity of Eosinophil Peroxidase  
13<sup>th</sup> Annual Meeting of Society of Free Radical Biology and Medicine, Austin TX, USA, November, 2006 *Free Radical Biology and Medicine*, Volume 41, Supplement 1, S47.
30. **S. Galijašević** G. M. Saed, S. L. Hazen, and H. M. Abu-Soud  
Myeloperoxidase Metabolizes Thiocyanate in a Reaction Driven by Nitric Oxide  
12<sup>th</sup> Annual Meeting of Society of Free Radical Biology and Medicine, Austin TX, USA, November, 2005, *Free Radical Biology & Medicine*, Vol 39, supplement 1, S85, 2005
31. **S. Galijašević** M.P. Diamond, and H. M. Abu-Soud  
High dissociation rate constant of ferrous-dioxy complex linked to the catalase like activity in lactoperoxidase.  
12<sup>th</sup> Annual Meeting of Society of Free Radical Biology and Medicine, Virgin Island, USA, November, 2004, *Free Radical Biology & Medicine*, Vol 37, supplement 1, S19, 2004.
32. **S. Galijašević**, G.M. Saed, M.P. Diamond, and H. M. Abu-Soud  
Myeloperoxidase and catalytic activity of inducible nitric oxide synthase *Invited presentation*, 10<sup>th</sup> Annual Meeting of Society of Free Radical Biology and Medicine, Seattle, USA, November 2003, *Free Radical Biology and Medicine* 35, S92.
33. **S. Galijašević**, G.M. Saed, M.P. Diamond, and H. M. Abu-Soud  
Myeloperoxidase Up-regulates the Catalytic Activity of Inducible Nitric Oxide Synthase by Preventing Nitric Oxide Feedback Inhibition *4th International Peroxidase Meeting*, Kyoto, Japan October 27-30, 2004
34. **S. Galijašević** Enzymes and Catalysis: Structure-Activity Relationship  
*Invited presentation*, WUS Austria, Brain Drain Program, Sarajevo, B&H, December, 2003

35. **S. Galijašević**, D. Rorabacher The role of donor atom inversion in the electron-transfer kinetics of copper(II/I) polyaminothiaether complexes. *Graduate Research Day, Wayne State University, Detroit, MI, October 2001*

**c.)books**

1.Galijašević, S., Dugandžić V., Introduction to Laboratory methods, Issued by Faculty of Science and Mathematics, Sarajevo, 2013, ISBN 978-9958-592-44-7 COBBIS.BH

2. Galijašević, S., Biochemistry of myeloperoxidase, Publisher SSST, Sarajevo 2020  
ISBN978-9958-1935-9-0 COBBIS.BH-ID 40129542

2.Editor for University textbook “Physico-chemical instrumental methods in food and water analysis”  
Omanovic-Miklicanin, Enisa & Velagic-Habul, Esma & Preocanin, Tajana & Jakasa, Ivone & Djapo, Maida & Pita-Bahto, Anesa & Sedic, Danijela. (2017). Issued by University of Sarajevo, Faculty of agriculture