



Academic C.V.
Dr. Zakaria Vahabzadeh
Assistant Professor of Clinical Biochemistry
Kurdistan University of Medical Sciences
Sanandaj IRAN
Updated September 2019



Kurdistan University of Medical Sciences

Personal Details:

Name: Zakaria Vahabzadeh

D.O.B. 24 August 1980 (2 Shahrivar 1359)

Email: Dr.vahabzadeh@muk.ac.ir , zakariav@yahoo.com

Address: Kurdistan University of Medical Sciences, the School of Medicine,
Department of Clinical Biochemistry
Pasdaran Street, Sanandaj, Iran.

Academic Qualifications:

2015 PhD

Clinical Biochemistry

Kerman University of Medical Sciences, the School of Medicine
Tehran - Iran

2005 Master of Science

Clinical Biochemistry

Tabriz University of Medical Sciences, the School of Medicine
Tabriz – Iran

2002 Bachelor of Science

Biology

Gorgan University of Agricultural Sciences and Natural Resources, the School of
Basic Sciences
Gorgan - Iran



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Positions and work experiences:

- Faculty Member of Kurdistan University of Medical Science, Kurdistan Iran, 2015-Present
- Executive Director of Scientific Journal of Kurdistan University of Medical Sciences, 2019-Present
- Member of Research Council and Founder of Liver and Digestive Research Center, Research Institute for Health Development, Kurdistan University of Medical Sciences, Kurdistan, Iran, 2015-Present
- Member of Research Council of Cellular and Molecular Research Center, Research Institute for Health Development, Kurdistan University of Medical Sciences, Kurdistan, Iran, 2019- Present.
- Member of the Board of Professional and Clinical Skills Center of Kurdistan University of Medical Sciences, Kurdistan Iran, 2019-Present
- Technical Staff of Artemia Research Institute, Urmia University, Urmia, Iran, 2005-2012

PhD Thesis:

Effect of trimethylamine-N-oxide (TMAO) on the genes expression and proteins of heat shock proteins 60 and 70 of endoplasmic reticulum, SR-A1 and ABCA1 in murine macrophage cell line

MSc Thesis:

Effect of taurine and homocysteine on the oxidative stress and dyslipidemia in the fructose-fed rat.



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Selected Published Articles:

- 1- L Jalalie, MJ Rezaie, A Jalili, MA Rezaee, Z Vahabzadeh, MR Rahmani. **Distribution of the CM-dil-labeled human umbilical cord vein mesenchymal stem cells migrated to the cyclophosphamide-injured ovaries in C57BL/6 mice.** Iranian Biomedical Journal, 2019, 23(3), pp. 200-208.
- 2- S Nasser, B Nikkho, S Parsa, A Ebadifar, F Soleimani, K Rahimi, Z Vahabzadeh, M Bagher Khadem-Erfan, J Rostamzadeh, B Baban, O Banafshi, V Assadollahi, S Mirzaie, F Fathi .**Generation of Fam83h knockout mice by CRISPR/Cas9-mediated gene engineering.** Journal of Cellular Biochemistry, 2019,120 (7), pp. 11033-11043.
- 3- A Mohammadi, Z Vahabzadeh, S Jamalzadeh, T Khalili.**Trimethylamine-N-oxide, as a risk factor for atherosclerosis, induces stress in J774A.1 murine macrophages.** Advances in Medical Sciences, 2018 ,63(1), pp. 57-63.
- 4- R Nasiri-Kalmarzi, M Abdi, J Hosseini, E Babaei, A Mekarizadeh, Z Vahabzadeh. **Evaluation of 1,25-dihydroxyvitamin D3 pathway in patients with chronic urticaria.** QJM, 2018, 111(3), pp. 161-169.
- 5- Abdi, M., Vahabzadeh, Z., Ghanivash, Hakhamaneshi, M.S., Andalibi, P. **Investigation of the effect of trimethylamine-N-oxide on the proinflammatory cytokine genes expression in U937-derived macrophages.** Scientific Journal of Kurdistan University of Medical Sciences, 2018, 23(3), pp. 1-9.



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- 6- SN Saeidlou, D Vahabzadeh, F Babaei, Z Vahabzadeh. **Seasonal variations of vitamin D and its relation to lipid profile in Iranian children and adults**. Journal of Health, Population and Nutrition, 2017, 36(1),21.
- 7- Farzaneh Zarei, Mohammad-Nazir Menbari, Bayazid Ghaderi, Mohammad Abdi , Z Vahabzadeh. **Higher risk of progressing breast cancer in kurdish population associated to CDH1 -160 C/A polymorphism**. EXCLI Journal, 2017, 16, pp. 1198-1205.
- 8- A Abolfathi, Z Vahabzadeh, N Mahmoodiaghdam, D Vahabzadeh. **Effects of taurine and homocysteine on lipid profile and oxidative stress in fructose-fed rats**. Scientific Journal of Kurdistan University of Medical Sciences, 2017, 22(3), pp. 49-59.
- 9- HMA Valizadeh, ZV Shariatpanahi, D Vahabzadeh, Z Vahabzadeh .**Non-diabetic Hyperglycemia and Some of Its Correlates in ICU Hospitalized Patients Receiving Enteral Nutrition**. MAEDICA - a Journal of Clinical Medicine, 2017 Sep; 12(3): 174–179.
- 10- A Mohammadi, AG Najar, MM Yaghoobi, Y Jahani, Z Vahabzadeh. **Trimethylamine-N-Oxide Treatment Induces Changes in the ATP-Binding Cassette Transporter A1 and Scavenger Receptor A1 in Murine Macrophage J774A.1 cells**. Inflammation, 2016,39(1), pp. 393-404
- 11- A Mohammadi, MR Baneshi, Z Vahabzadeh, T Khalili. **The influence of lecithin administration on hepatic expression of FMO3 and FMO5 genes in N-mary mice**. Biosciences Biotechnology Research Asia, 2016, 13(3), pp. 1797-1803.
- 12- A Mohammadi, A Gholamhoseyniannajar, MM Yaghoobi, Y Jahani. Z Vahabzadeh. **Expression levels of heat shock protein 60 and glucose-**



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regulated protein 78 in response to trimethylamine-N-oxide treatment in murine macrophage J774A.1 cell line. Cellular and Molecular Biology, 2015, 61(4), pp. 94-100.

- 13- A Ehsani, SS Naghibi, MS Jasour, Z Vahabzadeh. **Changes of biogenic amines and microbial load in rainbow trout during storage at conditions of ice and Freezing.** The Journal of Food Research, 2015, 25 (1), 143-154.
- 14- H Malekinejad, N Agh, Z Vahabzadeh, S Varasteh, MH Alavi. **In vitro reduction of zearalenone to β -zearalenol by rainbow trout (oncorhynchus mykiss) hepatic microsomal and post-mitochondrial subfractions.** Iranian Journal of Veterinary Research, 2012, 13(1), pp. 28-35.
- 15- F Noori, I Karimi, Z Vahabzadeh, P Sorgeloos. **Study on Trypsin Like Activity in Persian Sturgeon (Acipencer Persicus) in Response to Different Diet: Effects on Growth and Survival,** 2010, Aquaculture 5 (8), 910-911.
- 16- J Aliakbarlu, M Alizadeh, SM Razavi-Rohani, Z Vahabzade, SS Saei. **Effects of processing factors on biogenic amines production in Iranian white brine cheese.** Research Journal of Biological Sciences, 2009, 4 (1), 23-28.
- 17- Z Vahabzade, A Abolfathi, MK Ansari, A Safaiyan. **Effect of dietary taurine on lipid profile and oxidative stress in tissues of homocystein-treated rats.** Research Journal of Biological Sciences, 2008, 3 (11), 1271-75.



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- 18- Z Vahabzadeh, MH Khadem Ansari, AA Abolfahi, AR Safaian.
Effect of High Fructose Enriched Diet on Plasma Lipid Profile and Oxidative Stress in Heart and Kidney of Rat. The Journal of Urmia University of Medical Sciences, 2008, 3(4)- 249-256.

Journal Editorial and Reviewers membership:

- Executive Director of Scientific Journal of Kurdistan University of Medical Sciences, 2019-Present
- Member of referees for Scientific Journal of Kurdistan University of Medical Sciences, 2015- Present

Workshops prepared or attended:

- 1- Western Blotting Workshop for Graduate Students of Kerman University of Medical Sciences. Kerman, Iran, 17 February 2015.
- 2- Western Blotting Workshop for Graduate Students of Kurdistan University of Medical Sciences. Sanandaj, Iran. 7 June 2017.
- 3- The third specialized HPLC workshop and its applications in the analysis of agricultural pesticide residues. Central Research Institute for Chemical Analysis of Western Azerbaijan University of Jihad. Urmia, Iran, 11 June 2008.
- 4- Workshop on Gas Chromatography Mass Spectroscopy (GC-MS), Institute of Biotechnology, Urmia University, Urmia, Iran, 11 March 2009.



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5- International Workshop on Advanced Techniques in Sturgeon Fish larviculture. Artemia & Aquatic Animal Research Institute, Urmia University, Urmia, Iran, 12-14 March 2007

Research Interests:

- Investigation of the role of microbial gut flora and its correction in the fatty liver disease, atherosclerosis, diabetes, multiple sclerosis and other metabolic diseases.
- Preparation and design of new laboratory diagnostic and research kits
- Developing of the new molecular and cellular laboratory methods for the diagnosis, monitoring and treatment of metabolic diseases.

Professional Membership:

- Member of Research Council and Founder of Liver and Digestive Research Center, Research Institute for Health Development, Kurdistan University of Medical Sciences, Kurdistan, Iran, 2015-Present
- Member of Research Council of Cellular and Molecular Research Center, Research Institute for Health Development, Kurdistan University of Medical Sciences, Kurdistan, Iran, 2019- Present.
- Member of the Board of Professional and Clinical Skills Center of Kurdistan University of Medical Sciences, Kurdistan Iran, 2019-Present



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Key Skills:

- Computer & software knowledge, Bioinformatics, MS Office, Endnote, SPSS
- Professional experiences and competencies in the:
 - Working with laboratory animals (including breeding, maintenance, treatment and sampling)
 - Cell Culture and Primary Culture
 - Working with advanced microscopic equipment including cell inoculation, invert, fluorescence and ...
 - Sufficient mastery and skill in the different methods of purification of various compounds (nucleic acids, proteins, enzymes, toxins, antibiotics, vitamins, amino acids, metabolites) such as Solid Phase, Liquid-Liquid Extraction, Micro-Extraction
 - Full ability to work and teach molecular techniques such as cloning, western blotting, PCR, RT-qPCR, RFLP, HRM
 - Sufficient proficiency in working with a variety of spectrophotometric analyzer such as with Synergy HTX (UV-VIS, Fluorescent and Luminescent) microplate reader.
 - Having a history of teaching and work experience with the various types of chromatography systems including HPLC, GC, Ion Exchange Chromatography, Amino Acid Analyzer
 - Having extensive experience with other laboratory devices such as Osmometer, Ultrasonic Disruptor, Homogenizer, Lyophilizer, Rotary and ...
- Design, supervising and counseling of numerous student dissertations at levels of PhD and MSc.
- Quantitative and qualitative research methods
- Author of two general biochemistry and practical biochemistry books for medical students



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- Teaching Experience for different undergraduate and postgraduates (PhD and MSc) students:

Basic Biochemistry

- Clinical biochemistry
- Organic Chemistry
- Molecular and cellular biology
- Bioinformatics
- Advanced Molecular Diagnosis Techniques
- Medical Information Systems

Interests:

Poetry, Iranian traditional music, documentaries on nature and wildlife

Language:

Fluent in Farsi, Kurdish and partly in English, and familiar with Arabic