

Fariborz Bahrehmand, PhD



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CURRICULUM VITAE

CURRENT POSITIONS:

PhD by research
University of Kermanshah
College of Medicine
Clinical Biochemistry Department
In charge of Biochemistry lab.

WORK ADDRESS:

University of Kermanshah
College of Medicine
Biochemistry Department

WORK PHONE NUMBER:

083-34274617

WORK FAX NUMBER:

083-34274623

E-MAIL:

FariborzBahrehmand@gmail.com

PLACE OF BIRTH:

Kermanshah, Iran

MARITAL STATUS:

Married, 1 child

TRAINING , DEGREES:

- 1988-1990** Medical Lab Technician , Kermanshah University Medical School, Kermanshah, Iran.
- 1999-2001** Medical Lab Bachelor , Tehran University Medical School , Tehran,Iran
- 2008-2011** Master science of clinical Biochemistry Kermanshah University Medical School, Kermanshah, Iran.
- 2012-2017** Ph.D by research of Biomedical Sciences, Kermanshah University, Medical School, Kermanshah, Iran.

HONORS AND ACHVIEMENTS:

1. Top student in Medical Lab science(Technician degree).
2. Top student in Medical Lab science (Bachelor degree).
3. Top student in Master science of clinical Biochemistry degree
4. Outstanding employee in the years 1993,1995,2013
5. Top researcher PhD student in 2013 and 2017

Workshops membership:

1. Retraining Biochemistry education programs of Laboratory Professionals and pathologists in 1998 and 2003
2. Workshop on the electrophoresis , Kermanshah Reference Laboratory,2009
3. Summer school on HPLC, Biochemistry Lab. 2016
4. Summer school on Hb electrophoresis and DNA extraction, Biochemistry Lab 2019

Collaboration with the Provincial Health:

1. Attendance in The third workshop on the theory and practice of measuring urinary Iodine Research Institute for Endocrine Metabolic in Shahid Beheshti Medical University , 2006.
2. Periodic assessment of urine Iodine projects , 1995 till 2011
3. Collaboration with the Kermanshah University of Medical Sciences Clinic in Hormone section(ELISA and RIA) , amino acid and sugar chromatography , VMA detection , hemoglobin and protein Electrophoresis , 1991 till 2002.

Membership in more than 51 approved KUMS research projects.

Publications in pubmed Journals:

- 1.Rahimi Z, Akramipour R, Nagel RL, Ahmadi AS, Merat A, **Bahremand F**. The beta-globin gene haplotypes associated with Hb D-Los Angeles [beta121(GH4)Glu --> Gln] in Western Iran. Hemoglobin. 2006;30(1):39-44.

2. Vaisi-Raygani A¹, Rahimi Z, Entezami H, Kharrazi H, **Bahrhemand F**, Tavilani H, Rezaei M, Kiani A, Nomanpour B, Pourmotabbed T. Butyrylcholinesterase K variants increase the risk of coronary artery disease in the population of western Iran. *Scand J Clin Lab Invest*. 2008;68(2):123-9.
3. Vaisi-Raygani A¹, Ghaneialvar H, Rahimi Z, Nomani H, Saidi M, **Bahrehammad F**, Vaisi-Raygani A, Tavilani H, Pourmotabbed T. The angiotensin converting enzyme D allele is an independent risk factor for early onset coronary artery disease. *Clin Biochem*. 2010 Oct;43(15):1189-94.
4. **Bahrehammad F**¹, Vaisi-Raygani A, Kiani A, Rahimi Z, Tavilani H, Navabi SJ, Shakiba E, Hassanzadeh N, Pourmotabbed T. Matrix metalloproteinase-2 functional promoter polymorphism G1575A is associated with elevated circulatory MMP-2 levels and increased risk of cardiovascular disease in systemic lupus erythematosus patients. *Lupus*. 2012 May;21(6):616-24.
5. Asefi M, Vaisi-Raygani A, **Bahrehammad F**, Kiani A, Rahimi Z, Nomani H, Ebrahimi A, Tavilani H, Pourmotabbed T. Paraoxonase 1 (PON1) 55 polymorphism, lipid profiles and psoriasis. *Br J Dermatol*. 2012 Dec;167(6):1279-86.
6. Rahimi Z, Ahmadi R, Vaisi-Raygani A, Rahimi Z, **Bahrehammad F**, Parsian A. Butyrylcholinesterase (BChE) activity is associated with the risk of preeclampsia: influence on lipid and lipoprotein metabolism and oxidative stress. *J Matern Fetal Neonatal Med*. 2013 Nov;26(16):1590-4.
7. **Bahrehammad F**, Vaisi-Raygani A, Ahmadi R, Kiani A, Rahimi Z, Tavilani H, Pourmotabbed T. Paraoxonase (PON1) 55 polymorphism and association with systemic lupus erythematosus. *Iran J Allergy Asthma Immunol*. 2013 Jul 9;12(3):211-9.
8. **Bahrehammad F**, Vaisi-Raygani A, Rahimi Z, Ahmadi R, Kiani A, Tavilani H, Vaisi-Raygani H, Pourmotabbed T. Synergistic effects of BuChE non-UU phenotype and paraoxonase (PON1) 55 M allele on the risk of systemic lupus erythematosus: influence on lipid and lipoprotein metabolism and oxidative stress, preliminary report. *Lupus*. 2014 Mar;23(3):263-72.
9. Shahmohamadnejad S, Vaisi-Raygani A, Shakiba Y, Kiani A, Rahimi Z, **Bahrehammad F**, Shakiba E, Pourmotabbed T. Association between butyrylcholinesterase activity and phenotypes, paraoxonase192 rs662 gene polymorphism and their enzymatic activity with severity of rheumatoid arthritis: correlation with systemic inflammatory markers and oxidative stress, preliminary report.
10. **Bahrehammad F**, Vaisi-Raygani A, Kiani A, Rahimi Z, Tavilani H, Ardalani M, Vaisi-Raygani H, Shakiba E, Pourmotabbed T. Matrix metalloproteinase 9 polymorphisms and systemic lupus erythematosus: correlation with systemic inflammatory markers and oxidative stress.
11. Mohammadi Y, Vaisi-Raygani A, Shakiba E, **Bahrehammad F**, Khodarahmi R, Nemati H, Rahimi Z, Kiani A, Rahimi Z, Vaisi-Raygani H, Vaisi-Raygani H, Pourmotabbed T. Angiotensin II type 1 receptor A1166 C (rs5186) gene polymorphism increased risk and severity of psoriasis, contribution to oxidative stress, antioxidant status, lipid peroxidation and correlation with vascular adhesion protein 1, preliminary report.
12. **Bahrehammad F**, Kiani A, Vaisi-Raygani A, Bashiri H, Zobeiri M, Tanhapour M, Pourmotabbed T. Pharmacogenetics of drug metabolizing enzyme: thiopurine methyl transferase phenotypes and multidrug resistance 1 gene polymorphism in inflammatory bowel disease.
13. Nomani H, Hagh-Nazari L, Aidi A, Vaisi-Raygani A, Kiani A, Rahimi Z, **Bahrehammad F**, Shakiba E, Mozaffari HR, Tavilani H, Pourmotabbed T. Association between GSTM1, GSTT1, and GSTP1 variants and the risk of end stage renal disease.
14. Tanhapour M, Vaisi-Raygani A, **Bahrehammad F**, Khazaei M, Kiani A, Rahimi Z, Nomani H, Tavilani H, Pourmotabbed T. Association between the cytotoxic T-lymphocyte antigen-4 mutations and the susceptibility to systemic lupus erythematosus; Contribution markers of inflammation and oxidative stress.

15. Baniamerian H, **Bahrehsmand F**, Vaisi-Raygani A, Rahimi Z, Pourmotabbed T. Angiotensin type 1 receptor A1166C polymorphism and systemic lupus erythematosus: correlation with cellular immunity and oxidative stress markers.
16. **Bahrehsmand F**, Vaisi-Raygani A, Kiani A, Bashiri H, Zobeiri M, Tanhapour M, Pourmotabbed T. Whole-Blood Thiopurine S-Methyltransferase Genotype and Phenotype Concordance in Iranian Kurdish Ulcerative Colitis (UC) Patients.
17. **Bahrehsmand F**, Kiani A, Vaisi-Raygani A, Bashiri H, Zobeiri M, Moini A, Pourmotabbed T. A Practical Non-Extraction Direct Liquid Chromatography Method for Determination of Thiopurine S-Methyltransferase Activity in Inflammatory Bowel Disease.
18. Ghobadi F, Vaisi-Raygani A, **Bahrehsmand F**, Tanhapour M, Kiani A, Rahimi Z, Pourmotabbed T. Genetic Variants of Pre-microRNAs A-499G(rs3746444) and T-196a2C(rs11614913) with Ulcerative Colitis (UC) and Investigated with Thiopurine-S-Methyltransferase (TPMT) Activity. Clin Lab. 2017 Oct 1
19. Tanhapour M, Miri A, Vaisi-Raygani A, **Bahrehsmand F**, Kiani A, Rahimi Z, Pourmotabbed T, Shakiba E. Synergism between apolipoprotein E ε 4 allele and paraoxonase (PON1) 55-M allele is associated with risk of systemic lupus erythematosus. Clin Rheumatol. 2018 Apr
20. Vaisi-Raygani A¹, Rahimi Z, Entezami H, Kharrazi H, **Bahrehsmand F**, Tavilani H, Rezaei M, Kiani A, Nomanpour B, Pourmotabbed T. Butyrylcholinesterase K variants increase the risk of coronary artery disease in the population of western Iran.
21. Nomani H, Hesami O, Vaisi-Raygani A, Tanhapour M, **Bahrehsmand F**, Rahimi Z, Kiani A, Shakiba E, Pourmotabbed T. Association between the -11377 C/G and -11391 G/A polymorphisms of adiponectin gene and adiponectin levels with susceptibility to type 1 and type 2 diabetes mellitus in population from the west of Iran, correlation with lipid profile. J Cell Biochem. 2019 Mar
22. Tanhapour M, Falahi B, Vaisi-Raygani A, **Bahrehsmand F**, Kiani A, Rahimi Z, Vaisi-Raygani AA, Shakiba E, Pourmotabbed T. Angiotensin-converting enzyme insertion/deletion (rs106180) and angiotensin type 1 receptor A₁₁₆₆C (rs106165) genotypes and psoriasis: Correlation with cellular immunity, lipid profile, and oxidative stress markers. J Cell Biochem. 2018 Oct 10
23. Tanhapour M, Shahmohamadnejad S, Vaisi-Raygani A, Kiani A, Shakiba Y, Rahimi Z, **Bahrehsmand F**, Shakiba E, Vaisi-Raygani AA, Alibakhshi R, Eivazi A, Pourmotabbed T. Association between activity and genotypes of paraoxonase1 L₅₅M (rs854560) increases the disease activity of rheumatoid arthritis through oxidative stress. Mol Biol Rep. 2019 Feb
24. Lotfi F, **Bahrehsmand F**, Vaisi-Raygani A, Khodarahmi R, Tanhapour M, Kiani A, Rahimi Z, Pourmotabbed T. Cytochrome P450 (CYP450, 2D6* A), N-Acetyltransferase-2 (NAT2*7, A) and Multidrug Resistance 1 (MDR1 3435 T) Alleles Collectively Increase Risk of Ulcerative Colitis. Arch Iran Med. 2018 Nov 1
25. Kiani A, Mohamadi-Nori E, Vaisi-Raygani A, Tanhapour M, Elahi-Rad S, **Bahrehsmand F**, Rahimi Z, Pourmotabbed T. Vitamin D-binding protein and vitamin D receptor genotypes and 25-hydroxyvitamin D levels are associated with development of aortic and mitral valve calcification and coronary artery diseases. Mol Biol Rep. 2019 Oct
26. Samimi Z, Kardideh B, Zafari P, **Bahrehsmand F**, Roghani SA, Taghadosi M. The impaired gene expression of adenosine monophosphate-activated kinase (AMPK), a key metabolic enzyme in leukocytes of newly diagnosed rheumatoid arthritis patients. Mol Biol Rep. 2019 Nov 18.

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Congresses:

1. Rahi H, Mostafae A, Nomanpour B, **Bahrehsmand F**. Purification of the enzyme oxalate oxidase from barley and review some of its properties. Seventh Iranian Congress of Biochemistry, 2003

2. "Plasma Lipids in Iranians With Sickle Cell Disease :Hypocholesterolemia in Sickle Cell Anemia and Increase of HDL-Cholesterol in Sickle Cell Trait." 4th Euro Fed Lipid Congress ,Madrid , Spain,2006
3. Butyrylcholinesterase K variants increase the risk of coronary artery disease in the population of western iran. The Congress of Biochemistry and 2nd International Congress of Biochemistry of Molecular Biology, Shiraz, 2007
4. Survey of sildenafil effect on normal human endometrial epithelial cells in in-vitro culture. Iranian society for reproductive medicine. Shiraz, 2009
5. simple and efficient method for cancer stem cells Isolation from human breast cancer cell line. Applied Biology, Tehran, 2011
6. Statistical study of urinary Iodine Monitoring Results in Kermanshah Province Students for 10 Years (1379-1389). Health, today's effort, future need, Kermanshah, 2012
7. Lipids and psoriasis: Correlaion of methylen tetrahydrofolate reductase (rs1801133) polymorphism and lipid peroxidation. 9th International Congress and 14th National Congress on Improving the Quality of Laboratory Services, Tehran, 2016

Teaching Experience:

1. 1992 to now, teaching biochemistry lab courses to Medical, Pharmaceutical, Dental and Paramedical students.
2. More than 12 advising for M.Sc of clinical biochemistry students.

Technical Skills:

- 1- DNA & RNA Extraction- PAGE & Agarose Electrophoresis, Protein, Hemoglobin and Urine Acetate cellulose Electrophoresis
- 2- cDNA synthesis, PCR (ARMS & RFLP), RT-PCR, Real-Time PCR
- 3- ELISA, RIA, ELFA, Chemiluminescence
- 4- Uv and Visible Spectrophotometry
- 5- HPLC
- 6- Atomic Absorption and Flamephotometry
- 7- Two Dimensional Electrophoresis
- 8- Chromatography