Curriculum Vitae of Hossein Fallah

CONTACT INFORMATION:

Name: Hossein Fallah

Address: Department of Clinical Biochemistry, Afzalipour School of Medicine, Kerman University of Medical Sciences, Kerman, Iran.

Telephone: +3433257448

Mobile: +9031222768

Fax: +3433257448

Email: h.fallah@kmu.ac.ir and hf59ma@gmail.com

PERSONAL INFORMATION:

Date of Birth: 23/8/1980

Place of Birth: Torbat Heydarieh

Sex: Male

Marital Status: Married

Children: One

Work History:

1. Assistant Professor of Clinical Biochemistry, Kerman University of Medical Sciences, 2013-Current
2. Director of Education Office, Afzalipour School of Medicine, 2016-Current
3. The Manager of committee of Electronic Education, Afzalipour School of Medicine, 2016-Current

Education:

B.Sc.: Biology, Golestan University, Goragan, Iran, 2005

M.Sc.: Clinical Biochemistry, Kerman University of Medical Sciences, Kerman, Iran, 2008

Ph.D.: Clinical Biochemistry, Kerman University of Medical Sciences, Kerman, Iran, 2013

Skills:

1. PCR and qPCR
2. Gene Expression
3. Western Blotting
4. Chromatography (Gas, paper, Thin layer)
5. Nucleic Acid Extraction
6. Cell Culture

INTERESTS

1. Metabolic Syndrome
2. Diabetes
3. Molecular Genetic
4. Cancer
5. Signal Transduction
6. Drug Resistance
7. Fatty Acids
8. Atherosclerosis

Lectures:

1. Inborn Error of Metabolism for Ph.D Students of Clinical Biochemistry
2. Biochemistry of Biological Membrane for Ph.D Students of Clinical Biochemistry
3. Cancer Biochemistry for Ph.D Students of Clinical Biochemistry
4. Clinical Biochemistry for M.Sc. Students of Clinical Biochemistry

5. Biochemistry of Molecular Diagnostic for M.Sc. Students of Clinical Biochemistry
6. Advanced Biochemistry of Tissues for M.Sc. Students of Clinical Biochemistry
7. Biochemistry 1 and 2 for Medicine Students
8. Biochemistry for M.Sc. Students of Medical Physiology
9. Biochemistry for M.Sc. Students of Immunology
10. Basic Biochemistry for Pharmacy Students
11. Clinical Biochemistry for Pharmacy Students
12. Biochemistry 1 and 2 for Dentistry student
13. General Biochemistry for Laboratory Sciences Students
14. Biochemistry 1 and 2 for Laboratory Sciences Students
15. Practical Biochemistry for Medicine, Pharmacy Dentistry and Laboratory Sciences Students
16. Biochemistry for Paramedical Students
17. Clinical Biochemistry for M.Sc. Students
18. Clinical Biochemistry for Ph.D. Students
19. Drug metabolism for Ph.D. Students
20. Virtual Education for Medical and Dental Students

Abstracts and Papers in Congresses:

1) Evaluation of anti mannosidase activity of 200 plant Extract (target enzyme for cancer therapy), International Congress of Biochemistry, Shiraz, Iran, 2007

2) Evaluation of anti hyperglycemic activity of some plants Due to inhibitory of alpha glucosidase, International Congress of Biochemistry, Shiraz, Iran, 2007

3) kinetic study of 7 plants extract active against alpha glucosdase, International Congress of Biochemistry, Shiraz, Iran, 2007

4) Anti hyperglycemic activity of 5 plant extracts effective against alpha glucosidase in normal and diabetic rats, LabMed Congress, Helsinki, Finland, 2008

5) Effect of *Zataria multiflora* on insulin resistance and PPAR-γ gene expression in high fructose fed rats National Congress of Biochemistry, Yazd, Iran, 2013

6) Study of sub-acute toxicity of methanolic extract from *rosa damascena* flowers, International Congress of Pharmaceutical Sciences, Kerman, Iran, 2008

7) inhibitory effect of Levisticum officinale extract on Alpha glucosidase activity and postprandial hyperglvcemia in diabetic rats, International Congress of Pharmaceutical Sciences, Kerman, Iran, 2008

8) study of simvastatin-pioglitazone combination therapy on insulin resistance and PPAR.γ gene expression in insulin resistant rats, congress of Laboratory and clinic, Tehran, Iran, 2016

9) Improvement of topotecan sensitivity of MCF-7 breast cancer cell line by inhibition of IL1 signaling cascade, congress of Laboratory and clinic, Tehran, Iran, 2017

10) Inhibition of IL.1 signaling cascade can increase methotrexate sensitivity of MCF7 breast cancer cell line, congress of Laboratory and clinic, Tehran, Iran, 2017

11) Investigating of the relationship between the expression level of FFAR2 and FFAR3 in peripheral blood leukocytes with the coronary artery stenosis, calcium score and serum concentration of IL-1β in male patients referred to the CT-angiography center of Razieh-Firouz hospital in Kerman, International Congress of Biochemistry, Tehran, Iran, 2024

12) Investigating the relationship between the expression of miR-153, FFAR-4 and oxidative stress indices with CT angiography data in patients with atherosclerosis symptoms in Kerman, International Congress of Biochemistry, Tehran, Iran, 2024

13) Is There a Relationship Between the Concentrations of Different Types of Free Fatty Acids with Atherosclerosis Indices? International Congress of Biochemistry, Tehran, Iran, 2024

Papers in Journals:

1. GHOLAMHOSEINIAN A, FALLAH H, SHARIFIFAR F, MIRTAJADDINI M. the inhibitory effect of some iranian plants extracts on the alpha glucosidase. Iranian Journal of Basic Medical Sciences. 2008;11:1-9.

2. Gholamhoseinian A, H.Fallah, F.Sharififar. Alpha mannosidase inhibitory effect of some Iranian plant extracts. International Journal of Pharmacology. 2008;4:460-5.

3. Gholamhoseinian A, H.Fallah, F.Sharififar. Inhibitory effectofmethanolextractof Rosa damascena Mill. flowerson a-glucosidase activityandpostprandialhyperglycemiainnormaland diabetic rats
Phytomedicine. 2009;16:935-41.
4. Gholamhoseinian A, H.Fallah, F.Sharififar. Anti-hyperglycemic Activity of Four Plants Extracts Effective against Alpha Glucosidase in Normal and Diabetic Rats. Journal of Kerman University of Medical Sciences. 2009;16(1):35-44.
5. Mohammadi A, Gholamhoseinian A, Fallah H. Zataria multiflora increases insulin sensitivity and PPARγ gene expression in high fructose fed insulin resistant rats
Iranian Journal of Basic Medical Sciences. 2014;17(4):263-70.
6. Mohammadi A, Gholamhosseinian A, Fallah H. Trigonella foenum-graecum water extract improves insulin sensitivity and stimulates PPAR and γ gene expression in high fructose-fed insulin-resistant rats
Advanced Biomedical Research. 2016;54(5):1-7.
7. Fallah H, Akbari H, Abolhassani M, Mohammadi A, Gholamhosseinian A. Berberis integerrima ameliorates insulin resistance in high- fructose-fed insulin-resistant rats. Iranian Journal of Basic Medical Sciences. 2017;20, No. 10, Oct 2017(10).
8. Mohammadi A, Fallah H, Gholamhosseinian A. Antihyperglycemic Effect of Rosa Damascena is Mediated by PPAR.γ Gene Expression in Animal Model of Insulin Resistance. Iranian Journal of Pharmaceutical Research. 2017;16(3):1080-8.
9. Mohammadi A, Fallah H, Shahouzehi B, Najafipour H. miR-33 inhibition attenuates the effect of liver X receptor agonist T0901317 on expression of liver X receptor alpha in mice liver. ARYA Atheroscler. 2017;13(6):257-63.
10. Mohammadi GA, Danesh B, Fallah H, Rahemi S. The Effect of Co-administration of Pioglitazone and Simvastatin on Insulin Resistance Parameters and PPAR.γ Expression in Insulin-resistant Rats. Journal of Kerman University of Medical Sciences. 2017;24(1):16-27.
11. Behnaz Danesh MD, Abbas Mohammadi, Ph.D. 2, Hossein Fallah, Ph.D.3 , Mostafa Allahyari, M.Sc.4. The Effects of Simvastatin on Free Fatty Acids Profile in Fructose-fed Insulin Resistant Rats. Journal of Kerman University of Medical Sciences. 2018;25(5):405-113.
12. Fallah H, Khorasani S, Mohammadi A, Azizi MH, Barzegar M, Hamidi Z. Impact of Gamma Irradiation on Fatty Acid Profile of Different Types of Pistachios in Kerman Province

J Agr Sci Tech. 2018;20(1):1407-16.

13. Mirzaie M, Karimi M, Fallah H, Khaksari M, Nazari-Robat M. Downregulation of Matrix Metalloproteinases 2 and 9 is Involved in the Protective Effect of Trehalose on Spinal Cord Injury. International Journal of Molecular and Cellular Medicine. 2018;7(1):1-9.

14. Mohammadi A, Fallah H, Shahouzehi B, Najafipour H. Effect of LXR agonist T0901317 and miR-33inhibitor on SIRT1-AMPK and circulating HDL-C levels. Bulgarian Chemical Communications. 2018;50(1):111-8.

15. Rajaie A, Allahyari M, Nazari-Robati M, Fallah H. Inhibition of Interleukin-1 Receptor-Associated Kinases 1/4, Increases Gene Expression and Serum Level of Adiponectin in Mouse Model of Insulin Resistance. Int J Mol Cell Med. 2018;7(3):185-92.

16. Abolhassani M, Asadikaram G, Paydar P, Fallah H, Aghaee-Afshar M, Moazed V, et al. Organochlorine and organophosphorous pesticides may induce colorectal cancer; A case-control study. Ecotoxicol Environ Saf. 2019;178:168-77.

17. Masoumi-Ardakani Y, Fallah H, ahouzehi BS. carnitine Effects on Serum and pancreas inflammatory response in diabetic rats. Ukr Biochem J. 2019;91(6):59-66.

18. Mortazavi N, Asadikaram G, Ebadzadeh MR, Kamalati A, Pakmanesh H, Dadgar R, et al. Organochlorine and organophosphorus pesticides and bladder cancer: A case-control study. J Cell Biochem. 2019;120(9):14847-59.

19. Paydar P, Asadikaram G, Fallah H, Zeynali Nejad H, Akbari H, Abolhassani M, et al. Serum levels of Organochlorine Pesticides and Breast Cancer Risk in Iranian Women. Arch Environ Contam Toxicol. 2019;77(4):480-9.

20. Paydar P, Asadikaram G, Nejad HZ, Akbari H, Abolhassani M, Moazed V, et al. Epigenetic modulation of BRCA-1 and MGMT genes, and histones H4 and H3 are associated with breast tumors. J Cell Biochem. 2019;120(8):13726-36.

21. Rahemi S, Nematollahi-Mahani SN, Rajaie A, Fallah H. Inhibitor of Interleukin-1 Receptor-associated Kinases 1/4, Can Increase the Sensitivity of Breast Cancer Cells to Methotrexate. Int J Mol Cell Med. 2019;8(3):200-9.

22. Abbasi-Jorjandi M, Asadikaram G, Abolhassani M, Fallah H, Abdollahdokht D, Salimi F, et al. Pesticide exposure and related health problems among family members of farmworkers in southeast Iran. A case-control study
Environmental Pollution. 2020;267:115424.

23. Allahyari M, Rajaie A, Fallah H. IRAK inhibitor can improve insulin sensitivity in insulin-resistant mice fed with a high-fat diet
Asian Biomed. 2020;14(6):253-60.
24. Farhadia Z, Khaksarib M, Azizianc H, Dabirid S, Fallahe H, Nozari M. Aging is associated with loss of beneficial effects of estrogen on leptin responsiveness in mice fed high fat diet: Role of estrogen receptor α and cytokines. Mechanisms of Ageing and Development. 2020;186 111198.
25. Masoumi-Ardakani Y, Aminizadeh S, Fallah H, Shahouzehi B. L-Carnitine different doses affect serum and pancreas tissue Antioxidative defense and histopathology in STZ-induced diabetic rats
Biologia. 2020;75(1):1415-23.
26. Shahouzehi B, -Ardakani YM, Fallah H, zadeh SA. The effects of endurance training and estrogen-related receptor α disruption on mitofusin 1 and 2, GLU T2, PPAR β/δ and SCD 1 expression in the liver of diabetic rats. Ukr Biochem J. 2020;92(6):84-93.
27. Shahouzehi B, Fallah H, -Ardakani YM. L-carnitine administration effects on AMPK, APPL1 and PPARγ genes expression in the liver and serum adiponectin levels and HOMA -IR in type 2 diabetes rat model induced by STZ and nicotinamide
Ukr Biochem J. 2020;92(5):33-40.
28. Fallah H, Danesh B, Shahouzehi B, Mohammadi G. The Effect of Aqueous Extract of Quercus Infectoria on Insulin Resistance and Free Fatty Acids in Insulin-Resistant Rats Induced by a High-Fructose Diet
Scientific Journal of Kurdistan University of Medical Sciences. 2021;111(April):72-85.
29. Moinaldini S, Allahyari M, Shahouzehi B, Fallah H. Evaluation of the Effect of Co-administration of IRAK Inhibitor and Pioglitazone on PPAR-γ, GLUT-4, TNF-α, and Leptin Genes Expression in Adipose Tissue of Insulin-resistant Mice
Journal of Kerman University of Medical Sciences,. 2021;28(2):127-38.
30. Rezaei M, Shahouzehi B, Rahemi S, Fallah H, Salarkarimi M. Effect of IRAK1/4 inhibitor on IL-1β, IL-6, INF-γ and TNF-α expression in breast cancer cells of several lines. Ukr Biochem J. 2021;93(4):45-54.
31. Salarkarimi M, Shahouzehi B, Rahemi S, Fallah H. Investigation of the Effect of IRAK1/4 Inhibitor on the Expression of P53, Bcl-2, Bax and GALNT14 Genes in Combination with

Methotrexate and Topotecan in Breast Cancer Cell Lines. Biointerface Research in Applied Chemistry 2021;11(2):9157-69.

32. Shahouzehi B, Eghbalian M, Fallah H, Aminizadeh S, Masoumi-Ardakani Y. Serum microRNA-33 levels in pre-diabetic and diabetic patients. Mol Biol Rep. 2021;48(5):4121-8.

33. Seyyedin S, Shojaei M, Fallah H, Khosravi A, Nematollahi-Mahani SN. Effects of green light-emitting diode irradiation on neural differentiation of human umbilical cord matrix-derived mesenchymal cells; Involvement of MAPK pathway. Biochem Biophys Res Commun. 2022;637:259-66.

34. Abdesheikhi J, Sedghy F, Mahmoodi M, Fallah H, Ranjkesh M. Metabolic Regulation of T cell Activity: Implications for Metabolic-Based T-cell Therapies for Cancer. Iran Biomed J. 2023;27(1):1-14.

35. Shahouzehi B, Masoumi-Ardakani Y, Fallah H, Aminizadeh S. Concomitant Administration of L-carnitine and Performing High-Intensity Interval Training Effects on the Genes Involved in Mitochondrial Fusion and Apoptosis in Rat Liver. Jordan Journal of Biological Sciences. 2023;16(1):21-6.

36. Shahouzehi B, Moinaldini S, Allahyari M, Fallah H. Evaluation of the effect of interleukin-1 receptor associated kinase (IRAK) inhibitor on PPAR.γ and GLUT.4 genes expression in muscle tissueof insulin resistant mice Scientific Journal of Kurdistan University of Medical Sciences 2023;125(May):1-11.

37. Abadi B, Abdesheikhi J, Sedghy F, Mahmoodi M, Fallah H. Silibinin improved the function of T cells in peripheral blood mononuclear cells (PBMCs) co-cultured with U-87 MG cell line. Avicenna J Phytomed. 2024;14(2):166-76.

38. Rahemi S, Danesh B, Nematollahi-Mahani SN, Fallah H. Inhibition of IRAK Signaling Can Improve Topotecan Sensitivity of Breast Cancer Cell Lines by Decrease of P-gp Gene Expression. Biointerface Research in Applied Chemistry. 2024;13(6):1-11.

39. Shahouzehi B, Masoumi-Ardakani Y, Fallah H, Aminizadeh S. Evaluation of the effect of Exercise Trainings and CGRP receptor antagonist (BIBN 4096) on mitochondrial dynamic in the hippocampus of male Wistar rats. Neurosci Lett. 2024;828:137752.

40. Shiri H, FallahI H, Abolhassani M, Fooladi S, Karim ZR, Danesh B, et al. Relationship between types and levels of free fatty acids, peripheral insulin resistance, and oxidative stress in T2DM: A case-control study. PLOS ONE. 2024;August(12):1-17.

41. Masoumi-Ardakani Y, Eghbalian M, Fallah H, Jafari A, Shahouzehi B. Exploring serum miR-33b as a novel diagnostic marker for hypercholesterolemia and obesity: insights from a pilot case-control study. BMC Endocrine Disorders. 2025;27(25):1-11.
42. Yazdani R, Fallah H, Yazdani S, Shahouzehi B, Danesh B. Effect of plasma free fatty acids on lung function in male COPD patients. Sci Rep. 2025;15(1):3377.