

# *In the name of God*

## *Curriculum Vita (C.V.)*

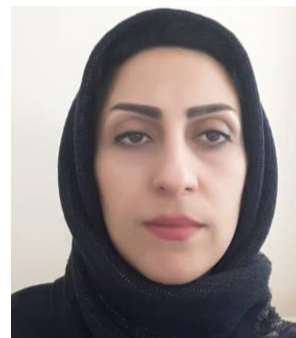
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***Dr. Karimeh Haghani, PhD***

***Associate Professor***

***Department of Clinical Biochemistry***

***Faculty of Medicine, Ilam University of Medical Sciences,  
Ilam, Iran***



***Email: [Haghani.bio@gmail.com](mailto:Haghani.bio@gmail.com)***

***Contact No: +98-84-32235727***

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### ***Education:***

1. PhD, 2011, Biochemistry, Tarbiat Modares University, Tehran, Iran.
2. MSc, 2007, Biochemistry, Tarbiat Modares University, Tehran, Iran.
3. BSc, 2004, Biology, Gorgan University, Gorgan, Iran.

### ***Research Interests:***

- Protein Engineering, Metabolic Engineering, Structural and Functional study of Proteins, Enzymology, Microbiology, Recombinant Proteins.
- Molecular signaling of diabetes and other disease.

### ***Research Experiences:***

1. Cell culture
2. DNA and RNA extraction
3. Cloning
4. Site Directed Mutagenesis
5. PCR
6. Protein overexpression
7. SDS-PAGE
8. Protein purification
9. Enzyme assay

### ***Research activities:***

Researcher from 2004 to 2011: Dept. of Biochemistry, School of Sciences, Tarbiat Modares Univ.

### ***Academic Membership:***

Biochemical Society of Iran

### ***Teaching Experiences:***

General Biochemistry for BSc students of Biology (Arak University)

Molecular and Cellular Biology for BSc students of Biology (Arak University)

Metabolism for BSc students of Biology (Arak University)

Metabolism and General Biochemistry for Medicine students (Ilam Medical Sciences University)

## ***Computer Skills:***

**General softwares:** Power Point, Word, Excel, Photoshop, Internet

**Specialized softwares:** Gene Runner, spdb viewer.

## ***Books:***

### ***A) Translated Books (To Persian)***

1. Stryer's Biochemistry, 2015.
2. Metabolic regulation in mammals, 2000.
3. Understanding Enzyme, 1998.

### ***B) Authored Books***

1. Set of multiple-choice questions for Enzymology, 2008.

## ***Research Publications:***

1. Haghani K, Asadi P, Taheripak G, Noori-Zadeh A, Darabi S, Bakhtiyari S. Association of mitochondrial dysfunction and lipid metabolism with type 2 diabetes mellitus: A review of literature. *Frontiers in Biology*. 2018;13(6):406-17.
2. Hadi P, Haghani K, Noori-Zadeh A, Bakhtiyari S. Prevalence of fragile X syndrome among patients with mental retardation in the west of Iran. *Frontiers in Biology*. 2018;13(6):464-8.

3. Nasrolahi A, Mahmoudi J, Noori-Zadeh A, Haghani K, Bakhtiyari S, Darabi S. Shared Pathological Mechanisms Between Diabetes Mellitus and Neurodegenerative Diseases. *Current Pharmacology Reports*. 2019;5(4):219-31.
4. Haghani K, Shapiro S, Ginzton LE. Low-level exercise echocardiography identifies contractile reserve in patients with a recent myocardial infarction: comparison with dobutamine stress echocardiography. *J Am Soc Echocardiogr*. 2002;15(7):671-7.
5. Haghani K, Salmanian AH, Ranjbar B, Zakikhan-Alang K, Khajeh K. Comparative studies of wild type Escherichia coli 5-enolpyruvylshikimate 3-phosphate synthase with three glyphosate-insensitive mutated forms: activity, stability and structural characterization. *Biochim Biophys Acta*. 2008;1784(9):1167-75.
6. Haghani K, Khajeh K, Salmanian AH, Ranjbar B, Bakhtiyari S. Acid-induced formation of molten globule states in the wild type Escherichia coli 5-enolpyruvylshikimate 3-phosphate synthase and its three mutated forms: G96A, A183T and G96A/A183T. *Protein J*. 2011;30(2):132-7.

7. Haghani K, Khajeh K, Naderi-Manesh H, Ranjbar B. Evidence regarding the hypothesis that the histidine-histidine contact pairs may affect protein stability. *Int J Biol Macromol*. 2012;50(4):1040-7.
8. Haghani K, Khajeh K, Naderi-Manesh H, Ranjbar B. Investigation on the effects of three X-->histidine replacements on thermostability of alpha-amylase from *Bacillus amyloliquefaciens*. *J Microbiol Biotechnol*. 2012;22(5):592-9.
9. Haghani K, Bakhtiyari S, Nouri AM. In vitro study of the differentiation of bone marrow stromal cells into cardiomyocyte-like cells. *Mol Cell Biochem*. 2012;361(1-2):315-20.
10. Bakhtiyari S, Haghani K, Farhadi E, Soukhtanloo M, Rezaei N, Taghikhani M. A novel monoclonal antibody against A60 antigen of *Mycobacterium bovis* Bacillus Calmette-Guerin. *Hybridoma (Larchmt)*. 2010;29(3):211-5.
11. Viesy S, Abdi J, Haghani K, Valizadeh R, Mirzaei A. Giardia Lamblia Subtypes and Their Relationship with Clinical Symptoms in Patients with Giardiasis. *Infect Disord Drug Targets*. 2020;20(3):396-400.

12. Shokouhi S, Haghani K, Borji P, Bakhtiyari S. Association between PGC-1alpha gene polymorphisms and type 2 diabetes risk: a case-control study of an Iranian population. *Can J Diabetes*. 2015;39(1):65-72.
13. Shokouhi S, Delpisheh A, Haghani K, Mahdizadeh M, Bakhtiyari S. Association of rs7903146, rs12255372, and rs290487 polymorphisms in TCF7L2 gene with type 2 diabetes in an Iranian Kurdish ethnic group. *Clin Lab*. 2014;60(8):1269-76.
14. Noori-Zadeh A, Bakhtiyari S, Khooz R, Haghani K, Darabi S. Intra-articular ozone therapy efficiently attenuates pain in knee osteoarthritic subjects: A systematic review and meta-analysis. *Complement Ther Med*. 2019;42:240-7.
15. Noori-Zadeh A, Bakhtiyari S, Khanjari S, Haghani K, Darabi S. Elevated blood apelin levels in type 2 diabetes mellitus: A systematic review and meta-analysis. *Diabetes Res Clin Pract*. 2019;148:43-53.
16. Maleki F, Haghani K, Shokouhi S, Mahmoodi K, Sayehmiri K, Mahdieh N, et al. A case-control study on the association of common variants of CAPN10 gene and the risk of type 2 diabetes in an Iranian population. *Clin Lab*. 2014;60(4):663-70.

17. Maleki F, Abdi S, Davodian E, Haghani K, Bakhtiyari S. Exposure of Infants to Aflatoxin M1 from Mother's Breast Milk in Ilam, Western Iran. *Osong Public Health Res Perspect*. 2015;6(5):283-7.
18. Karimfar MH, Rostami S, Haghani K, Bakhtiyari S, Noori-Zadeh A. Melatonin Alleviates Bleomycin-Induced Pulmonary Fibrosis in Mice. *J Biol Regul Homeost Agents*. 2015;29(2):327-34.
19. Karimfar MH, Niazvand F, Haghani K, Ghafourian S, Shirazi R, Bakhtiyari S. The protective effects of melatonin against cryopreservation-induced oxidative stress in human sperm. *Int J Immunopathol Pharmacol*. 2015;28(1):69-76.
20. Karimfar MH, Haghani K, Babakhani A, Bakhtiyari S. Rosiglitazone, but not epigallocatechin-3-gallate, attenuates the decrease in PGC-1alpha protein levels in palmitate-induced insulin-resistant C2C12 cells. *Lipids*. 2015;50(6):521-8.
21. Haghani K, Pashaei S, Vakili S, Taheripak G, Bakhtiyari S. TNF-alpha knockdown alleviates palmitate-induced insulin resistance in C2C12 skeletal muscle cells. *Biochem Biophys Res Commun*. 2015;460(4):977-82.

22. Haghani K, Bakhtiyari S, Doost Mohammadpour J. Alterations in Plasma Glucose and Cardiac Antioxidant Enzymes Activity in Streptozotocin-Induced Diabetic Rats: Effects of Trigonella foenum-graecum Extract and Swimming Training. *Can J Diabetes*. 2016;40(2):135-42.
23. Haghani K, Bakhtiyari S. The study on the relationship between IRS-1 Gly972Arg and IRS-2 Gly1057Asp polymorphisms and type 2 diabetes in the Kurdish ethnic group in West Iran. *Genet Test Mol Biomarkers*. 2012;16(11):1270-6.
24. Golshani H, Haghani K, Dousti M, Bakhtiyari S. Association of TNF-alpha 308 G/A Polymorphism With Type 2 Diabetes: A Case-Control Study in the Iranian Kurdish Ethnic Group. *Osong Public Health Res Perspect*. 2015;6(2):94-9.
25. Bakhtiyari S, Zaherara M, Haghani K, Khatami M, Rashidinejad A. The Phosphorylation of IRS1(S307) and Akt(S473) Molecules in Insulin-Resistant C2C12 Cells Induced with Palmitate Is Influenced by Epigallocatechin Gallate from Green Tea. *Lipids*. 2019;54(2-3):141-8.
26. Bakhtiyari S, Haghani K, Basati G, Karimfar MH. siRNA therapeutics in the treatment of diseases. *Ther Deliv*. 2013;4(1):45-57.



27. Bakhtiyari A, Haghani K, Bakhtiyari S, Zaimy MA, Noori-Zadeh A, Gheysarzadeh A, et al. Association between ABCC8 Ala1369Ser Polymorphism (rs757110 T/G) and Type 2 Diabetes risk in an Iranian population: A Case-Control Study. *Endocr Metab Immune Disord Drug Targets*. 2020.
28. Arshadi S, Bakhtiyari S, Haghani K, Valizadeh A. Effects of Fenugreek Seed Extract and Swimming Endurance Training on Plasma Glucose and Cardiac Antioxidant Enzymes Activity in Streptozotocin-induced Diabetic Rats. *Osong Public Health Res Perspect*. 2015;6(2):87-93.
29. Alipourfard I, Datukishvili N, Bakhtiyari S, Haghani K, Di Renzo L, de Miranda RC, et al. MIG1 Glucose Repression in Metabolic Processes of *Saccharomyces cerevisiae*: Genetics to Metabolic Engineering. *Avicenna J Med Biotechnol*. 2019;11(3):215-20.
30. Alipourfard I, Bakhtiyari S, Datukishvili N, Haghani K, Di Renzo L, De Miranda RC, et al. *Saccharomyces cerevisiae*, key role of MIG1 gene in metabolic switching: putative fermentation/oxidation. *J Biol Regul Homeost Agents*. 2018;32(3):649-54.