

*In the name of God*

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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, Structure and Function of Proteins, Enzymology, Biotechnology, Microbiology, Recombinant Proteins.

***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 of Associations:***

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, 2012.
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, 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 May 1; 50(4):1040-7.

2. 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 May; 22(5):592-9.
3. 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 Feb; 361(1-2):315-20.
4. 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 Feb; 30(2):132-7.
5. 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 Jun; 29(3):211-5.
6. 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 Sep; 1784(9):1167-75.
7. Mousapour A, Taghikhani M, Meshkani R, Khatami Sh, Bakhtiyari S, Haghani K. Studying the 3'UTR (1484insG) polymorphism of PTP1B gene in insulin-resistant and type 2 diabetic subject. *Scientific Journal of School of Public Health and Institute of Public Health Research (Farsi)*, volume 5, pages: 1-13, 2007.