

Curriculum vitae

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Dr. Salar Bakhtiyari

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Department of Clinical Biochemistry

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Education

- Ph.D., Clinical Biochemistry, TarbiatModares University, Tehran, Iran, 2010.
- M.Sc., Clinical Biochemistry, TarbiatModares University, Tehran, Iran, 2004.
- B.Sc., Biology, Razi University, Kermanshah, Iran, 2001.

Research Interests

- Insulin signaling pathway in type 2 diabetes
- Molecular mechanism of insulin resistance and type 2 diabetes
- Gene expression analyses in Insulin resistance and type 2 diabetes
- Molecular mechanism of lipid-induced insulin resistance
- Gene therapy for insulin resistance and type 2 diabetes
- Gene delivery and gene silencing
- Stem cell therapy and diabetes

Academic Experiences

- 2002-2010: Researcher at dept. of Clinical Biochemistry, School of Medical Sciences, Tarbiat Modares Univ., Tehran, Iran.
- 2010-Now: Lecturer and researcher at dept. of Clinical Biochemistry, School of Medicine, Ilam University of Medical sciences, Ilam, Iran.

Professional Skills

- Cell culture
- DNA and RNA extraction
- Gene delivery
- Gene silencing using RNAi
- PCR and RT-PCR
- PCR-RFLP
- Cloning
- Protein over-expression
- Site-directed mutagenesis
- SDS-PAGE
- Western blotting
- Monoclonal Antibody Generation
- Lipid extraction and analysis
- Enzyme assay
- Electrophoretic Mobility Shift Assay
- ELISA

Patent and Patent Applications

- Meshkani R, **Bakhtiyari S**, Vakili S. Generation of PTP-1B stable knockdown C2C12 cells using shRNA. IranPatent No. 390020840, May17, 2011.

Honors and Awards

- The best medicine faculty member Researcher (2010, 2011, 2012, 2013, 2014)

Language Skills

- English (Advanced)
- Kurdish (Native)
- Persian (Native)

Publications

A) *Insulin resistance and Type 2 Diabetes*

1. Karimeh Haghani, **Salar Bakhtiyari (corresponding author)**, Jafar Doost Mohammadpour. Alterations in plasma glucose and cardiac antioxidant enzymes activity in streptozotocin-induced diabetic rats: effects of Trigonella foenum graecum extract and swimming training. *Canadian Journal of Diabetes*. Accepted manuscript, 2015.
2. Mohammad Hassan Karimfar, Karimeh Haghani, Azar Babakhani, **Salar Bakhtiyari (corresponding author)**. Rosiglitazone, but not Epigallocatechin-3-Gallate, attenuates the decrease in PGC-1 α protein levels in palmitate-induced insulin resistant C2C12 cells. *Lipids*. 2015. 50(6):521-8.
3. Fatemeh Sayehmiri, **Salar Bakhtiyari**, Khairollah Asadollahi, Koroush Sayehmiri. The Prevalence of Gestational Diabetes Mellitus in Iran: a systematic review and meta-analysis study. *Iran Red Crescent Med J*. Accepted manuscript. 2015.

4. Karimeh Haghani, Somayeh Pashaei, Sanaz Vakili, Gholamreza Taheripak, **Salar Bakhtiyari (corresponding author)**. TNF- α Knockdown Alleviates Palmitate-Induced Insulin Resistance in C2C12 Skeletal Muscle Cells. *Biochem Biophys Res Communi*. 2015. 460(4):977-982.
5. Hasan Golshani, Karimeh Haghani, Majid Dousti, **Salar Bakhtiyari (corresponding author)**. Association of TNF- α 308 G/A Polymorphism With Type 2 Diabetes: A Case–Control Study in the Iranian Kurdish Ethnic Group. *Osong Pub Health Res Perspect*. 2015. 6(2): 94-99.
6. Sajad Arshadi, **Salar Bakhtiyari (corresponding author)**, Karimeh Haghani, Ahmad Valizadeh. Effects of Fenugreek Seed Extract and Swimming Endurance Training on Plasma Glucose and Cardiac Antioxidant Enzymes Activity in Streptozotocin-induced Diabetic Rats. *Osong Pub Health Res Perspect*. 2015. 6(2): 87-93.
7. Shabnam Shokouhi, Karimeh Haghani, Parveneh Borji, **Salar Bakhtiyari (corresponding author)**. Association between PGC-1 α gene polymorphisms and type 2 diabetes risk: A case-control study of an Iranian population. *Can J Diabetes* 2015. 39(1): 65-72.
8. Meshkani R, Sadeghi A, Taheripak G, Zarghooni M, Gerayesh-Nejad S, **Bakhtiyari S**. Rosiglitazone, a PPAR γ agonist, ameliorates palmitate-induced insulin resistance and apoptosis in skeletal muscle cells. *Cell Biochem Funct*. 2014. 32(8): 683-91.
9. Shabnam Shokouhi, Ali Delpisheh, Karimeh Haghani, Mohsen Mahdizadeh, **Salar Bakhtiyari (corresponding author)**. 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): 1269-1276.
10. Farajollah Maleki, Karimeh Haghani, Shabnam Shokouhi, Khalil Mahmoodi, Kourosh Sayehmiri, Nejat Mahdieh, **Salar Bakhtiyari (corresponding author)**. 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.
11. Gholamreza Taheripak, **Salar Bakhtiyari**, Masoumeh Rajabibazl, Parvin Pasalar, Reza Meshkani. Protein tyrosine phosphatase 1B (PTP1B) inhibition ameliorates palmitate-induced mitochondrial dysfunction and apoptosis in skeletal muscle cells. *Free Radic Biol Med*. 2013. 65: 1435-46.
12. **Bakhtiyari S**, Haghani K, Basati G, Karimfar MH. siRNA therapeutics in the treatment of diseases. *Ther Deliv*. 2013. 4(1): 45-57.
13. Haghani K, **Bakhtiyari S (corresponding author)**. 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.

14. Gorgani-Firuzjaee S, **Bakhtiyari S (First author)**, Golestani A, Meshkani R. Leukocyte antigen-related inhibition attenuates palmitate-induced insulin resistance in muscle cells. *J Endocrinol.* 2012. 215(1): 71-7.
15. **Bakhtiyari S**, Meshkani R, Taghikhani M, Larijani B. The Effects of PTP-1B Knockout on Glucose Uptake and Triglyceride Levels in C2C12 Skeletal Muscle Cells. *Iranian J Diabet Lipid Dis.* 2010. 9: 1- 8.
16. Saberi H, Mohammadtaghvaei N, Gulkho S, **Bakhtiyari S**, et al. The ENPP1 K121Q polymorphism is not associated with type 2diabetes and related metabolic traits in an Iranian population. *Mol Cell Biochem.* 2011. 350(1-2): 113-8.
17. Gholamreza Taheripak, **Salar Bakhtiyari**, Masoumeh Rajabibazl, Parvin Pasalar, Reza Meshkani R. PTP1B knockdown prevents palmitate-induced apoptosis in mouse skeletal muscle cells. *Clin Biochem.* 2011. 44(13): S289.
18. Sattar Gorgani, Reza Meshkani, **Salar Bakhtiyari**. Leukocyte antigen-related (LAR) knockdown improves palmitate induced insulin resistance in C2C12 muscle cells. *Clin Biochem.* 2011. 44(13): S277.
19. Asie Sadeghi, Leila Parvaneh, Narges Taghvaei, **Salar Bakhtiyari**, Ahmad Nasimian, Sanaz Vakili, Meshkani R. Rosiglitazone effect on palmitate-induced insulin resistance is independent of PTP1B expression. *Clin Biochem.* 2011. 44(13): S3-S4.
20. **Bakhtiyari S**, Meshkani R, Taghikhani M, Larijani B, Adeli K. Protein tyrosine phosphatase-1B (PTP-1B) knockdown improves palmitate-induced insulin resistance in C2C12 skeletal muscle cells. *Lipids.* 2010. 45(3): 237-44.
21. Parvaneh L, Meshkani R, **Bakhtiyari S**, Mohammadtaghvaei N, Gorganifiruzjaee S, Taheripak G, Golestani A, Foruzandeh M, Larijani B, Taghikhani M. Palmitate and inflammatory state additively induce the expression of PTP1B in muscle cells. *Biochem Biophys Res Communi.* 2010. 396(2): 467-71.

B) Other area of Biomedical Science

1. Karimfar MH, Rostami S, Haghani K, **Bakhtiyari S (corresponding author)**, Noorizadeh A. Melatonin Alleviates Bleomycin-Induced Pulmonary Fibrosis in Mice. *J Biol Regul & Homeost Agents.* 2015. 29(2):327-34.
2. Mahdieh N, Mahmoudi H, Ahmadzadeh S, **Bakhtiyari S (corresponding author)**. GJB2 mutations in deaf population of Ilam (Western Iran): a different pattern of mutation distribution. *Eur Arch Otorhinolaryngol.* 2015. Online corrected proof.

3. Shabnam Shokouhi, Sarah Bray, **Salar Bakhtiyari**, Kourosh Sayehmiri, Kamran Alimoghadam Effects of aGVHD and cGVHD on survival rate in patients with Acute Myeloid Leukemia after Allogeneic Stem Cell Transplantation. *Int J Hematol Oncol Stem Cell Res.* 2015 Jul 1;9(3):112-21.
4. Karimfar MH, Niazvand F, Haghani K, Ghafourian S, Shirazi R, **Bakhtiyari S (corresponding author)**. The Protective effects of melatonin against cryopreservation-induced oxidative stress in human sperm. *Int J Immunopathol Pharmacol.* 2015. 28(1): 69-76.
5. Sayehmiri K, Carson KV, **Bakhtiyari S**, Shokouhi S, Alimoghadam K. Effects of aGVHD and cGVHD according to relapse status on survival rate in patients with acute lymphocytic leukemia. *Hematology.* 2014. 19(8): 441-7.
6. Mohsen Hosseinkhani, DavoodMehrabani, Mohammad Hassan Karimfar, **Salar Bakhtiyari**, Amir Manafi, Reza Shirazi. Tissue Engineered Scaffolds in Regenerative Medicine. *World J Plastic Surgery.* 2014. 3(1): 3-7.
7. Hadi Mousavi, **Salar Bakhtiyari (corresponding author)**. Hypopituitarism in neonate with hyperbilirubinemia and decreased level of consciousness: a case report study. *Acta Med Iranica.* 2014. 52(1): 82-4.
8. Mojtaba Taran, **Salar Bakhtiyari (corresponding author)**. Optimization of single cell protein production from textile effluent at extreme conditions. *Toxicological Environ Chem.* 2013. 95(1): 110-117.
9. Mojtaba Taran, Arina Monaza, Javad Zavar Reza, Mazyar Safari, **Salar Bakhtiyari (corresponding author)**. Optimal conditions for the biological removal of arsenic by a novel halophilic archaea in different conditions and its process optimization. *Pol J Chem Technol.* 2013. 15: 7-9.
10. Dousti M, Abdi J, **Bakhtiyari S**, Mohebbali M, Mirhendi SH, Rokni MB. Genotyping of hydatid cyst isolated from human and domestic animals in Ilam Province, Western Iran using PCR-RFLP. *Iranian J Parasitol.* 2013. 8(1): 47-52.
11. Mojtaba Taran, **Salar Bakhtiyari (corresponding author)**. Production of single cell protein by a halophilic microorganism using glucose as carbon source: Optimization of process variables in extreme conditions by Taguchi experimental design. *Global Adv Res J Microbiol.* 2013. 1(3): 041-046.
12. Haghani K, **Bakhtiyari S (corresponding author)**, 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.
13. Mojtaba Taran, SomayehBagheri, **Salar Bakhtiyari (corresponding author)**. Eco-Friendly Poly(3-hydroxybutyrate) Synthesis from Textile Wastewater and Its Process Optimization. *Pol J Environ Stud.* 2012. 21 (5): 1413-1416.

14. Mojtaba Taran, Elham Azizi, **Salar Bakhtiyari (corresponding author)**. Surface active agent production from olive oil in high salt conditions and its process optimization. *Pol J Chem Technol*. 2012. 14 (4): 30-34.
15. Haghani K, Khajeh K, Hatef Salmanian A, 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. 44(17-18): 1421-4.
16. Mohammad Alidoosti, Mahboobeh Ghaedi, Abbas Soleimani, **Salar Bakhtiyari**, Mehrnaz Rezvanfard, Shekufeh Golkhu, Narges Mohammadtaghvaei. Study on the role of environmental parameters and HIF-1A gene polymorphism in coronary collateral formation among patients with ischemic heart disease. *Clin Biochem*. 2011. 44(17-18): 1421-4.
17. **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.

References

1. Dr. Mohammad Taghikhani (Professor)

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