

In The Name of God

CURRICULUM VITAE



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Educational Courses

BSc

From : Iran University of Medical Sciences, Tehran-Iran (1993-1997)

Major : Medical laboratory technology

MSc

From : Hamedan University Of Medical Sciences, Hamedan-Iran(1999-2002)

Major : Clinical Biochemistry

PhD

From : Tehran University of Medical Sciences (TUMS), Tehran- Iran (2007-2014)

Major : Clinical Biochemistry

Professional Experience

▪ **pharmaceutical and diagnostics company** (1999- 2001)

- 1- Physicochemical Quality control Laboratory Director, Bakhtar bioshimi pharmaceuticals Company.
- 2- Microbiology Quality control Laboratory Director, Bakhtar bioshimi pharmaceuticals Company.

▪ **Medical Laboratory**

- 1- Laboratory Expert . Health & Therapeutic Network. Kermanshah-Iran.1994-1999
- 2- Laboratory expert .Supervisor of Biochemistry Department, Razi & Taleghani Hospital Laboratories.2000-2006
- 3- Laboratory expert ; Razi Pathobiological Laboratory . Supervisor for departments of Blood,hormone,Urine Biochemistry & electerophoresis.2004-2006.
- 4- Supervisor of Biochemistry department ; Razi Hospital .In charge of biochemistry department. 2006-2008.

Teaching experiences

- **Pharmacy students** : Analytical chemistry, Practical Pharmaceutics ,Clinical Biochemistry & cell culture techniques.
- **Medical laboratory Students (BSc)**: Clinical biochemistry. Quality control, Practical laboratory techniques , Medical laboratory Internships

Publications

▪ **Book translation**

Road map of Biochemistry (Translation) . Dr.Parvin pasalar,Dr.Gholamreza Taheripak ,Dr.Haleh Masoudi .Parvaneh Danesh publications.

▪ **Research articles**

- 1- 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 Commun*.2010 May 28;396(2):467-71. .(IF:2.28)
- 2- Mansouri K, Mirshahi M, Pourfathollah A, Hassan ZM, Taheripak G. Anti-plasminogen monoclonal antibody (MC2B8) inhibits angiogenesis. *Pak J Biol Sci*. 2007 Oct 1;10(19):3450-3453.
- 3- Rezai M, Taheripak G ,Goudarzi M.T,Shahryari ahmadi A.Telomerase activity in acute and chronic leukemia patients undergoing chemotherapy.*Behood winter* 2006; 10(4 (31):300-310.
- 4- Taheripak G, Pasalar P , Meshkani R , Bakhtiyari S , Rajabibazl M .PTP1B knockdown prevents palmitate-induced apoptosis in mouse skeletal muscle cells. *Clinical Biochemistry* 2011;44(13): S289-S289
- 5- A Nasimian, G Taheripak, S Gorgani-Firuzjaee, A Sadeghi, R Meshkani . Protein tyrosine phosphatase 1B (PTP1B) modulates palmitate-induced cytokine production in macrophage cells *Inflammation Research*. 62 (2), 239-246 . .(IF:2.14)
- 6- N MohammadTaghvaei, G Taheripak*, M Taghikhani, R Meshkani . Palmitate-induced PTP1B expression is mediated by ceramide-JNK and nuclear factor κ B (NF- κ B) activation . *Cellular Signalling*.2012.(*First Co-author)(IF:4.47)
- 7- Taheripak G, Bakhtiyari S, Rajabibazl M, Pasalar P, Meshkani R. Protein tyrosine phosphatase 1B (PTP1B) inhibition ameliorates palmitate-induced mitochondrial dysfunction and apoptosis in skeletal muscle cells . *FRBM journal*. *Free Radic Biol Med*. 2013 Dec;65:1435-4.(IF:5.98)
- 8- Meshkani R, Taheripak G, Sadeghi A , 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 Dec;32(8):683-91. .(IF:2.13)

- 9- Haghani K, Pashaei S, Vakili S, Taheripak G, Bakhtiyari S. TNF- α knockdown alleviates palmitate-induced insulin resistance in C2C12 skeletal muscle cells. *Biochem Biophys Res Commun*. 2015 Apr 1. pii: S0006-291X(15)00603-8.(IF:2.28)

Awards

Top selective ph.D research Thesis in *16th Avicenna festival*, Tehran University of Medical Sciences (TUMS) .January 2015.

Congress Presentations

- 1- Measurement of Telomerase activity in acute and chronic leukemia patients undergoing chemotherapy. 7th Iranian national congress of Biochemistry.Ahvaz,Iran.2003
- 2- Using PCR-ELISA technique in leukemia diagnosis .Annual Congress of Iranian Society of Pathology. Tehran,Iran .2005
- 3- Role of proteomics in future of diagnostics pathology. 2th Congress of Iranian Cancer Association & 8th Congress of Iranian Society of Pathology . Tehran,Iran , October 2006.
- 4- Haematology future . A complex of Molecular biology & Gene therapy . 2th Congress of Iranian Cancer Association & 8th Congress of Iranian Society of Pathology . Tehran,Iran October 2006.
- 5- Role of nanocrystals in immunohistochemistry . 3th Congress of Iranian Cancer Association & 9th Congress of Iranian Society of Pathology . Tehran,Iran , October 2006.
- 6- Telomerase, a molecular marker for primary diagnosis of cancer.The 4th national congress on improving the quality in clinical laboratories . Tehran,iran . 2005.
- 7- The haematopoietic stem cell and effective growth factors in cell culture laboratory. The 4th national congress on improving the quality in clinical laboratories . Tehran,iran . 2005.
- 8- PTP1B knockdown prevents palmitate-induced apoptosis in mouse skeletal muscle cells.
12th Iranian congress of Biochemistry & 4th International congress of Biochemistry & Molecular Biology .Mashhad,Iran.2011G. Clinical Biochemistry 2011;44(13): S289-S289
- 9- Diabetes & Inflammation (Diabetes Panel) .The 8th national congress on improving the quality in clinical laboratories . Tehran,iran . 2011.

Congress Attendance & Scientific programs

- 1- 5th International Congress of Biochemistry and Molecular Biology & 13th Iranian Congress of Biochemistry .Yazd,Iran 16-19 April 2013
- 2- 3th International Congress of Biochemistry and Molecular Biology & 10th Iranian Congress of Biochemistry .Tehran,Iran 16-19 November 2009
- 3- International Congress of Transfusion Medicine. Razi Hall.Tehran,Iran.2007
- 4- Haematology Conference. Kermanshah University of Medical Sciences.2007
- 5- Immunology Methods in Laboratory Diagnosis Conference. Kermanshah University of Medical Sciences.2007
- 6- Immunology Methods in Laboratory Diagnosis Conference. Kermanshah University of Medical Sciences.2007
- 7- Urine Biochemical Tests Conference . Kermanshah University of Medical Sciences.2007
- 8- “Medical Laboratory Quality Control” Regular Program . Department of Biochemistry.Tehran University of Medical Sciences .Tehran,Iran. 2008
- 9- “Lipids” Regular Program . Department of Biochemistry.Tehran University of Medical Sciences .Tehran,Iran. 2008
- 10- Laboratory Diagnosis of Food Transmitted Diseases . Health deputy of kermanshah University of Medical Sciences .2006

Workshops

- 1- Second joint workshop on Cell Culture Techniques . URMIA university . 4th -5th July 2006-Urmia.
- 2- Site Directed Mutagenesis (SDM) workshop.Tarbiat Modares University ,Tehran,Iran .2009.
- 3- Applications & Working with “ DNA SIS MAX” software in bioinformatics. Pasteur Institute of Iran.17-18 February 2013
- 4- Bioinformatics Workshop . Pasteur Institute of Iran.11-13 February 2013.
- 5- Revising and Criticism of Scientific papers workshop. Imam Khomani Hospital Tehran University of Medical Sciences.8-10 November 2011.
- 6- Workshop on Research Methodology in Health Systems .Hamedan University of Medical Sciences. 10-12 December 1999.
- 7- System Biology Workshop. Pasteur Institute of Iran. 4-6 Aug 2014.

Training Courses

▪ Computer Skills

- 1- ICDL Courses on *Information Technology* .Management & programming organization. 2007
- 2- ICDL Courses on Presentation (Microsoft PowerPoint). Management & programming organization. 2007
- 3- ICDL Courses on Spreadsheets (Microsoft Excel). Management & programming organization. 2007
- 4- ICDL Courses on Information Banks (Microsoft Access). Management & programming organization. 2007
- 5- ICDL Courses on Computer & File management. Management & programming organization. 2007
- 6- ICDL Courses on Microsoft Word. Management & programming organization . 2007

Professional Skills

1. Cell culture techniques
3. Gene manipulation & delivery
4. PCR , RT-PCR & Real-Time PCR
5. PCR-RFLP
6. Lentiviral gene delivery
7. Site-directed mutagenesis
8. SDS-PAGE & Western blotting
9. Serological Techniques
10. Bacteriological techniques
11. EMSA (Electrophoretic Mobility Shift Assay)
12. Total quality management (TQM)

Research interests

- **Metabolic syndrome and Type 2 Diabetes**
 - Molecular mechanisms of Insulin resistance, Muscle loss , Mitochondrial Dysfunction and Apoptosis

Research projects

- 1- Production of transgenic functional cardiomyocytes from umbilical cord matrix cells. Tehran Heart Center Hospital. Tehran, Iran. 2014 up to now
- 2- Production of biological pacemaker cells from umbilical cord matrix cells. Tehran Heart Center Hospital. Tehran, Iran. 2014 up to now

- 3- Role of PTP1B Inhibition on protection against Hypoxy induced apoptosis.
Biochemistry department.Tehran University of Medical Sciences.2014up to now
- 4- Non-Alcoholic Steatohepatitis & hemochromatosis (Biochemical and inflammatory aspects) in blood donors . Digestive disease Research Center (DDRC). Shariati Hospital . Tehran,Iran.2001.
- 5- Oral absorption survey on Microparticle of furosemide in Caco-2 cell line. Faculty of pharmacy, Kermanshah university of Medical Sciences.2007
- 6- Role of SIRT1 in palmitate-induced apoptosis in C2C12 cell line. Iran University of Medical Sciences (IUMS).2015.

Membership of Scientific Societies

Iranian Biochemical Society