

CURRICULUM VITEA

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<p>Personal: Date of Birth: 21.9.1969 Place of Birth: Shiraz, Iran Residency: Shiraz, Iran Sex: Female Marital status: Married Child: 1</p>	

Educational background:

- **BSc:** Biology, School of Sciences, Shiraz University, Shiraz, Iran (1993).
- **MSc:** Biochemistry, School of Medicine, Shiraz University of Medical Sciences, Shiraz, Iran (1996).
- **PhD:** Molecular biology, Institute of Cancer studies, Birmingham University, UK, 2002- 2005.
 - **MSc thesis:** Partial purification and kinetic properties of three different D-glucosamine 6-p: N-acetyltransferase from human placenta.
 - **PhD project:** Improving *E. coli* nitroreductase for cancer gene therapy.

Employment:

- ✓ University Instructor of Biochemistry. Department of Biochemistry Fasa medical school, Shiraz University of Medical Sciences 1996-2001.
- ✓ Assistant professor of Molecular biology, Shiraz Institute for Cancer Research, Shiraz University of Medical Sciences, 2006 up to now.

Publications:

1. Habibagahi M, Habibagahi Z, Jaberipour M, Aghdashi A. Quantification of regulatory T cells in peripheral blood of patients with systemic lupus erythematosus. *Rheumatol Int.* 2010 Apr 2.
2. Jaberipour M, Habibagahi M, Hosseini A, Habibabad SR, Talei A, Ghaderi A. Increased CTLA-4 and FOXP3 Transcripts in Peripheral Blood Mononuclear Cells of Patients with Breast Cancer. *Pathol Oncol Res.* 2010 Mar 21.
3. Jaberipour M, Vass SO, Guise CP, Grove JI, Knox RJ, Hu L, Hyde EI, Searle PF. Testing double mutants of the enzyme nitroreductase for enhanced cell sensitisation to prodrugs: Effects of combining beneficial single mutations, *Biochem Pharmacol.* 2010 Jan 15;79(2):102-11.
4. Jarrom D, Jaberipour M, Guise CP, Daff S, White SA, Searle PF, Hyde EI. Steady-state and stopped-flow kinetic studies of three *Escherichia coli* NfsB mutants with enhanced activity for the prodrug CB1954, *Biochemistry.* 2009 Aug 18;48(32):7665-72.
5. Mousavi Niri N, Jaberipour M, Razmkhah M, Ghaderi A, Habibagahi M. Mesenchymal stem cells do not suppress lymphoblastic leukemic cell line proliferation. *Iran J Immunol.* 2009 Dec;6(4):186-94.
6. Mohsen Khosravi Maharlooei, Payam Peymani, Armin Attar, Amir Khosravi, Ahmad Hosseini and Mansooreh Jaberipour. Treatment of Type 1 Diabetes Mellitus by Increasing Human Leukocyte Antigen-G Expression with Polymeric Nanoparticles Using Gene Therapy. *Iranian Journal of Medical Hypotheses and Ideas*, Vol. 3.
7. M Habibagahi¹, Z Mostafavipour, M Lotfi, M Dehghani, M Jaberipour, H Dehghan¹. High Concentration of Soluble Form of Vascular Endothelial Cadherin in Sera of Patients with Prostate Cancer, *Iranian Red Crescent Medical Journal*, 2009 Oct; 11(4):377-381.
8. Habib-Agahi M, Jaberipour M, Searle PF. 4-1BBL costimulation retrieves CD28 expression in activated T cells. *Cell Immunol.* 2009;256(1-2):39-46.

9. Habib-Agahi M, Jaberipour M, Phan TT, Searle PF. Preferential T cell expansion by artificial antigen presenting cells expressing 4-1BBL alone or in combination with CD80 or CD86. *Iran J Immunol.* 2008, Sep;5(3):136-47.
10. Searle et al. Nitroreductase: A prodrug-activating enzyme for cancer gene therapy, *Clinical and Experimental Pharmacology and Physiology*, 2004, 31, 811-816.
11. Vessal M, Jaberipour M, Jalali Sh, Rasti M. Hepatic arylsulfatases A and B activities in streptozocin- induced diabetic rats, *Archives of Iranian Medicine*, 2000, Oct 3(4): 174-177.
12. Vessal M, Jaberipour M. Partial purification and kinetic properties of three different D-glucosamine 6-p: N-acetyltransferase from human placenta, *Comp Biochem Physiol B Biochem Mol Biol*, 1998, Dec, 121(4): 379-84.

Presentations:

1. Jaberipour et al. Improving *E. coli* nitroreductase for cancer gene therapy, British Society for Gene Therapy, 2nd Annual Meeting Manchester, 3-5 April 2005. Manchester, UK.
2. Jaberipour et al. Comparison of adenoviruses expressing nitroreductase mutants standardized by virus particle number or by plaque forming units, British Society for Gene Therapy, 3rd Annual Meeting Imperial College London, 28-30 March 2006. London, UK.
3. Jaberipour. Gene Therapy, Immunology meeting, 8th Annual Meeting Tehran, 16-18 May 2006. Tehran, Iran.
4. Jaberipour et al. Optimisation of the Enzyme Nitroreductase for Gene-Directed Enzyme Prodrug Therapy, Bioscience for the 21st Century Centennial meeting of the Biochemical Society. July 23–27, 2006, Glasgow, UK.
5. Armin Attar (Supervisor : Jaberipour). Effective Suicide Gene Therapy with Conditionally Replicative Adenovirus Driven by the Human Telomerase Promoter. The 8th Annual Research Congress of Iranian Medical Sciences Students & The 1st International Student Congress on Medical Research in Iran. May 23-25, 2007, Shiraz, Iran.
6. Jaberipour et al. SDF-1/CXCR4 expression levels in peripheral blood of breast cancer patients using quantitative Real-Time PCR (qPCR), 2nd International Congress Immune-Mediated Diseases, From Theory to Therapy. September 10-14, 2007, Moscow, Russia.

7. Jaberipour et al. CXCL12/CXCR4 and p53 Expression Levels in Peripheral Blood of Breast Cancer Patients using Quantitative Real Time PCR (qPCR), The 9th Iranian Congress of Biochemistry & the 2nd International Congress of Biochemistry and Molecular Biology, October 29- November 1, 2007, Shiraz, Iran.
8. Jaberipour et al. Nanoparticle-Mediated WT p53 Gene Delivery. The 9th Iranian Congress of Biochemistry & the 2nd International Congress of Biochemistry and Molecular Biology, October 29- November 1, 2007, Shiraz, Iran.
9. Jaberipour et al. Comparison of SDF-1/CXCR4 and p53 expression levels in peripheral blood of breast cancer patients with control group using quantitative Real-Time PCR (qPCR). 3rd-International Breast Cancer Congress, 13-15 Feb.2008,Tehran, Iran.
10. Jaberipour et al. Evaluation of IL-13 and IL-13 R α 2 Gene Expression in Breast Cancer. 9th Iranian Congress of Immunology and Allergy16-20 June.2008,*Tehran, Iran*.
11. Jaberipour et al. IL-2, IFN γ and IL-12 gene expression in peripheral Blood of patients with breast cancer. 9th Iranian Congress of Immunology and Allergy16-20 June.2008,*Tehran, Iran*.
12. Jaberipour et al. Quantitative real-time RT-PCR assay, a suitable method for detection of tumor markers in peripheral blood of breast cancer patients. 9th Iranian Congress of Immunology and Allergy16-20 June.2008,*Tehran, Iran*.
13. Jaberipour et al. Foxp3, CTLA-4, and TGF- β expression in peripheral blood of breast cancer patients. 9th Iranian Congress of Immunology and Allergy16-20 June.2008,*Tehran, Iran*.
14. M. Jaberipour, M. Razmkhah, A. Hosseini, A. Ghaderi. The comparison of SDF-1/CXCR4 and IP-10/CXCR3 expression profile in breast cancer patients using Quantitative Real-Time PCR". 7th Athens Congress on Women's Health and Disease, 11-13 September. 2008, The Athens, Greece.
15. M. Habibagahi, M. Jaberipour , A. Hosseini, A. Ghaderi. There are less IL-2, IL-12 and IFN-Gamma Gene Transcripts in peripheral blood. 7th Athens Congress on Women's Health and Disease, 11-13 September. 2008, The Athens, Greece.
16. Jaberipour et al. Specificity and action of E. coli nitroreductase with CB1954 for cancer gene therapy. 17-21 August 2008, Ambleside, UK.
17. M. Jaberipour, A. Samsami, F. Sahraiyani, Z. Sarraf, A. M. Mosalayi, A. Hossaini. Detection of HPV types 16 and 18 in peripheral blood by Real time

PCR in 100 patients with cervix cancer. The first International Gynaecology Oncology Congress. 10-12 Oct. 2008. Mashhad, Iran.

18. M. Abbassi, M. Jaberipour, M. Razmkhah, A. Hosseini, A. Ghaderi. IL-13 and IL-13 $\alpha 2$ Gene Expression in peripheral blood of Breast Cancer and Ovary Cancer patients. First national congress of Cellular & Molecular news in noncontagious disease. 19-21 May 2009. Babol, Iran.
19. M. Razmkhah, M. Jaberipour, A Talei, A. Ghaderi. IP10/CXCR3 expression profile in adipose-derived mesenchymal stem cell of patients with breast cancer. First national congress of Cellular & Molecular news in noncontagious disease. 19-21 May 2009. Babol, Iran.
20. Loghman Salimzadeh, M. Jaberipour, M. Razmkhah, A. Hosseini, A. Ghaderi. Gene delivery to human adipose-derived mesenchymal stem cell. First national congress of Cellular & Molecular news in noncontagious disease. 19-21 May 2009. Babol, Iran.
21. M. Habib-Agahi, N. Mousavi niri, M. Jaberipour, M. Razmkhah, A. Ghaderi. COSTIMULATION COULD NOT RESTORE LYMPHOCYTE PROLIFERATION SUPPRESSED BY ADIPOSE DERIVED MESENCHYMAL STEM CELLS. 2nd European Congress of Immunology. September 13 – 16, 2009. Berlin, Germany.
22. M. Habib-Agahi, N. Mousavi niri, M. Jaberipour, M. Razmkhah, A. Ghaderi. MESENCHYMAL STEM CELLS COULD NOT SUPPRESS JURKAT T CELL LINE PROLIFERATION. 2nd European Congress of Immunology. September 13 – 16, 2009. Berlin, Germany
23. M. Jaberipour, M. Razmkhah, B. Khalatbari, A. Ghaderi. VEGF, MMP2 AND IL-8 EXPRESSION PROFILE IN ADIPOSE-DERIVED MESENCHYMAL STEM CELLS (MSCS) OF PATIENTS WITH BREAST CANCER. 2nd European Congress of Immunology. September 13 – 16, 2009. Berlin, Germany
24. M. Razmkhah, M. Jaberipour, B. Khalatbari, A. Ghaderi. SDF-1/CXCR4 AND IP-10/CXCR3 EXPRESSION PROFILE IN PERIPHERAL BLOOD AND ADIPOSE-DERIVED MESENCHYMAL STEM CELLS (MSCS) OF PATIENTS WITH BREAST CANCER. 2nd European Congress of Immunology. September 13 – 16, 2009. Berlin, Germany

Award:

- ✓ Avon Foundation travel award due to a highly rated abstract in *Molecular Diagnostics in Cancer Therapeutic Development: Fulfilling the Promise of Personalized Medicine*, September 22-25, 2008 at the Philadelphia Marriott Downtown in Philadelphia, Pennsylvania, USA.

Workshops:

- ✓ First and second workshop on Medical education for academic staff; Shiraz University of Medical sciences; Shiraz/Iran, Winter 1999, Spring 2000.
- ✓ First workshop on research training for academic staff. Shiraz University of Medical sciences; Shiraz/Iran, Summer 2000.
- ✓ 12th Medical journalist series workshop for academic staff; Shiraz University of Medical sciences; Shiraz/Iran, 2008.
- ✓ First workshop on Proteomics for academic staff; Shiraz University of Medical sciences; Institute for Cancer Research, Shiraz/Iran, 2009.
- ✓ First workshop on Flowsytometry for academic staff; Shiraz University of Medical sciences; Shiraz/Iran, 2009.
- ✓ First workshop on SPSS for academic staff; Shiraz University of Medical sciences; Shiraz/Iran, 2009.
- ✓ First workshop on Mission and Vision Programs for academic staff; Shiraz University of Medical sciences; Shiraz/Iran, 2009.

Workshops Teaching:

- ✓ First workshop on Real-Time PCR for academic staff; Shiraz University of Medical sciences; Institute for Cancer Research, Shiraz/Iran, 2009.
- ✓ Second workshop on Real-Time PCR for academic staff; Shiraz University of Medical sciences; Institute for Cancer Research, Shiraz/Iran, 2009.
- ✓ First workshop on Transfection & Transduction for academic staff; Shiraz University of Medical sciences; Institute for Cancer Research, Shiraz/Iran, 2009.

Memberships:

- ✓ Iranian Cancer network

Journal Reviewer:

- ✓ Iranian Journal of Immunology

Supervision of MSc student Thesis:

- ✓ Analysis mRNA expression of SDF-1 gene in ADMSC and Mehr-80 cancer cell line before and after SDF-1 gene transfection
- ✓ Evaluation of immuno-modulatory effect of human adipose derived mesenchymal stem cells agonistic anti-bodies against CD28 and CD137.
- ✓ Evaluation of shRNA against of VEGF in different breast cancer cell line.
- ✓ IL-23 and IL-27 genes expression in peripheral blood of breast cancer patients, using real time PCR.
- ✓ IL-6, IL-17 and TGF- β genes expression in peripheral blood of breast cancer and bladder cancer patients, using real time PCR and ELISA
- ✓ TH1 and TH2 genes expression in peripheral blood of breast cancer patients, using real time PCR.
- ✓ Evaluation of scFv-HER2 and apply in breast cancer cell lines.

Supervision of Ph.D student Thesis:

1. Chemokine and chemokine receptors profile of mesenchymal stem cells (MSCs) isolated from breast cancer tissue before and after SDF-1 and IP-10 gene transfection.
2. A novel potential molecular target therapy for Triple-Negative Breast Cancer using siRNA technology in combination with cancer immunotherapy

Supervision of resident student Thesis:

1. Detection of HPV types 16 and 18 in peripheral blood by Real time PCR and evaluation of predisposing factors by questionnaire in 100 patients with cancer of cervix who refer to clinics of Shiraz Medical Science University
2. Evaluation of IL-13 and IL-13 R α 2 gene expression in peripheral blood of ovary cancer patients.
3. Detection of HPV types 33 and 52 in peripheral blood by Real time PCR and evaluation of predisposing factors by questionnaire in 100 patients with cancer of cervix who refer to clinics of Shiraz Medical Science University.
4. Detection of HPV types 16 and 18 in peripheral blood and warts by Real time PCR in patients with genital warts who refer to clinics of Shiraz Medical Science University.

5. Detection of HPV types 33 and 52 in peripheral blood and warts by Real time PCR in patients with genital warts who refer to clinics of Shiraz Medical Science University.
6. CTLA- 4 and Foxp3 genes expression in peripheral blood of ovarian cancer patients, using real time PCR
7. IL-4, IL-10 and TGF- β genes expression in peripheral blood of ovarian cancer patients, using real time PCR
8. Detection of BCL2, TP53, FAS and FASL gene transcripts in blood mononuclear cells of patients with ovarian cancer
9. IL-6, IL-17, IL-23, IL27 and TGF- β genes expression in peripheral blood of ovarian cancer patients, using real time PCR
10. Determination of SDF-1 , CXCR4, and OCT4 gene transcript in peripheral blood of ovarian cancer patients, using real time PCR

Supervision of MD student Thesis:

1. Analysis of soluble form of Fas and Fas ligand in serum of head and neck cancer patients.
2. Analysis mRNA expression CTLA-4 and FOXP3 in peripheral blood of breast cancer patients using Real time PCR.
3. Analysis mRNA expression FAS, BCL2 and p53 in peripheral blood of breast cancer patients using Real time PCR.
4. Analysis mRNA expression HER3, HER2, EGFR1 in larynx cancer patients
5. CTLA- 4 and Foxp3 genes expression in peripheral blood of bladder cancer patients, using real time PCR
6. Determination of SDF-1 , CXCR4, and OCT4 gene transcript in peripheral blood of bladder cancer patients, using real time PCR
7. IL-12 and IFN- γ genes expression in peripheral blood of ovarian cancer patients, using real time PCR
8. Investigation of p53, Bcl-2 and Fas gene expression in peripheral blood of patients with bladder cancer by Real-time PCR
9. IL-12 and IFN- γ genes expression in peripheral blood of bladder cancer patients, using real time PCR

10. Determination of MDM-2 and E-Cadherin gene in peripheral blood of breast cancer patients, using real time PCR
11. Determination of survivin and Her-2 gene in peripheral blood of breast cancer patients, using real time PCR
12. IL-23 and IL-27 genes expression in peripheral blood of bladder cancer patients, using real time PCR

Research Projects:

- ✓ Assessment of combining p53 therapy and gene therapy (nitroreductase/CB1954 enzyme-prodrug system) by adenovirus vector in different cell lines.
- ✓ Assessment of combining gene therapy (nitroreductase/CB1954 enzyme-prodrug system) and immunotherapy (4-1 BB ligand and B-7.1) by adenovirus vector in different cell lines.
- ✓ Synergetic anticancer effects of recombinant adenoviral vectors expressing human wild-type p53, 4-1BBL and B7-1 genes on different human carcinoma cell lines.
- ✓ Biological evaluation of new prodrugs for E. coli Nitroreductase for cancer gene therapy purposes.
- ✓ Molecular detection of circulating tumour cells guides treatment selection for breast cancer