



## Mohammad Reza Mirzaei

Address: Imam Ali Blvd, Rafsanjan  
University of Medical Sciences (RUMS)  
E-mail: mirzaeemr@rums.ac.ir  
Phone: 034-31315201  
Fax: 034-34280097

PhD of molecular Genetics, Assistants professor in Rafsanjan University of Medical Sciences

### Educations:

**PhD of Molecular Genetics**, Tarbiat Modares University, Tehran, Iran, 2014

**M.Sc. of Human Genetics**, Tehran University of Medical Sciences, Tehran, Iran, 1996

**B.Sc. of Microbiology**, Kerman University, Kerman, Iran, 1992

### Skills:

- \* Cancer (Molecular study)
- \*Cell Culture & Gene Cloning
- \*Gene transfection (siRNA,miRNA,...)
- \* Gene Expression Profiling (PCR Array, Real-Time PCR, PCR)
- \* Gene mutation detection methods (PCR-SSCP, DGGE, PGGE...)
- \* Cytogenetics (karyotype, Chromosomal banding...), FISH,.....
- \* Immunogenetics (autoimmune disease...)

## **Publications:**

- 1) **MR Mirzaei**, P. Mehdipour, M. Atri, H. Timuri and GR. Asadi. Detection of mutation in P53 gene in exons 5 and 8 in patients of familial breast cancer by PCR-SSCP method. Rafsanjan Medical University journal.2003;1(2):119-125.
- 2) **MR Mirzaei**, GR. Asadi, M. Mahmuodi, MR. Hajizadeh, M muosavi, AR Sayadi and H. Hosini. Evaluation of Fragile X Syndrome in moderate mental retardations in Rafsanjan city. Rafsanjan Medical University journal.2007; 5(1):17-22.
- 3) GR Asadi Karam, **MR Mirzaei**, M- Mahmoodi, MJ. Rasaee, M. pooramir. Extraction and purificantion of anti-proteiney 3 (PR3) 3 –antibodies from egg youlk. Iranian Biochemical Journal.2005; 9(1):41-45.
- 4) H.Timuri, P. Mehdipuor, M. Atri and **MR. Mirzaei**. Detection of gene mutation in exones 3, 10 and 12 of BRCA1 gene in 30 patients of familial breast cancer..Gorgan Medical University journal.2002; 3(8):19-24.
- 5) A. Jafarzadeh, M. KazemiArababadi, **MR. Mirzaei**, E. Rezazadeh.Occult hepatitis B virus infection among blood donors with antibodies to hepatitis B core antigen ACTA MEDICA IRANICA. 2008; 46(1):27-32.
- 6) M. Mahmoodi, MR. Hajizadeh, HR. Reshidinejad, GR.Asadikaram, M. Khaksari, **MR. Mirzaei** andN. Seyed. Survey of changes in complete blood count and red cell indices of whole blood incubated invitro at different temperatures up to 48 hours. J Ayub Med Coll Abbottabad. 2006; 18(1):17-21.
- 7) A.Jafarzadeh, R.Vazirinejad,GH.Hassanshahi, MA.Sajjadi and **MR.Mirzaei**. Evaluation of some immune system components in hyperthyroid women. Sabzevar Medical University journal.2007; 14(2):103-109.
- 8) Mohammad Kazemi Arababadi, **Mohammad Reza Mirzaei**, Ebrahim Rezazadeh Zarandi and Gholamhossein Hassanshahi. Analysis of δ□32 mutation in CCR5 gene in breast cancer patients in Kerman province of Iran. Journal of

Mazandaran University of Medical Sciences, 2009; 19 (70): 49-53.

9) Abdollah Jafarzadeh, Mohammad Kazemi Arababadi, **Mohammad Reza Mirzaei** and Abbasali Pourazar. Occult hepatitis B virus infection among blood donors with antibodies to hepatitis B core antigen. *Acta Medica Iranica*, 2008; 46 (1): 27-32.

10) Mohammad Kazemi Arababadi, **Mohammad Reza Mirzaei**, Seyed Mohammad Ali Sajadi, Gholamhasein Hasanshahi, Behzad Nasiri Ahmadabadi, Vajihe Akbarpour Salehabadi, Reza Derakhshan and Derek Kennedy. Interleukin (IL)-10 gene polymorphisms are associated with type 2 diabetes with and without nephropathy: A study of patients from the southeast region of Iran. *Inflammation*. 2012 ;35(3):797-802

11) **Mohammad Reza Mirzaei**, Gholamhossein Hassanshahi, Mehdi Mahmoodi, Mohammad Reza Hajizadeh, Fahmideh Bagrezaei and Mehdi Chehardoli. RNAinterference – mediated silencing of OCT4B1 alters expression of several TNF ligand/receptor transcripts in human tumor cell lines. *Pharmaceutical Sciences journal*. 2014;20;113-120.

12) **Mirzaei MR**, Najafi A, Arababadi MK, Asadi MH, Mowla SJ. Altered expression of apoptotic genes in response to OCT4B1 suppression in human tumor cell lines. *Tumour Biol*. 2014; 35:9999-10009.

13) Momeni M, **Reza Mirzaei M**, Zainodini N, Hassanshahi G, Arababadi MK. MiR-143 induces expression of AIM2 and ASC in Jurkat cell line. *Iran J Immunol*. 2013 Jun; 10(2):103-9.

14) Nazari M, Hajizadeh MR, Mahmoodi M, **Mirzaei MR** and Hasanshahi GH. The Regulatory Impacts of Morus Alba Leaf Extract on Some Enzymes Involved in Glucose Metabolism Pathways in Diabetic Rat Liver. *Clin. Lab.* 2013; 59:497-504.

- 15) Seyyed Javad Afsah Hejri, **Mohammad Reza Mirzaei**, Mohammad Kazemi Arababadi, Gholamhossein Hassanshahi, Mehdi Mahmoodi. OCT4B1 Down-Regulates Self-Renewal Genes in Cancer Cell Lines. *Pharmaceutical sciences*, 2014, 19(4), 117-123.
- 16) **M.R. Mirzaei** (PhD), G.H. Hasanshahi (PhD), M.R. Hajizadeh (PhD), M. Mahmoodi(PhD), M. Nazari (BSc), M. Chahardoli (BSc). The Correlation between OCT4B1 and Apoptosis in Human Cancer Cell Lines. *J Babol Univ Med Sci*, 2015, 17(1), 37-44.
- 17) J. Fathalizadeh, V. Bagheri, H. Khoramdeleazad, M. Kazemi Arababadi, A. Jafarzadeh, **MR. Mirzaei**, A. Shamsizadeh and MR. Hajizadeh. Induction of apoptosis by pistachio (*pistacia vera L.*) hull extract and its molecular mechanisms of action in human hepatoma cell line HepG2. *Cell. Mol. Biol.* 2015; 61(7):128-134.
- 18) **Mirzaei MR**, Arababadi MK, Asadi MH, Mowla SJ. Altered expression of high molecular weight heat shock proteins after OCT4B1 suppression in human tumor cell lines. *Cell Journal*. 2016; 17(4):608-616.
- 19) **Mohammad Reza Mirzaei**, Malek aaahossein Asadi, Seyed Javad Mowla, Gholamhossein Asadi, Zahra Ahmadi. Down-regulation of HSP40 gene family following *OCT4B1* suppression in human tumor cell lines. *Iran J Basic Med Sci*. 2016; 19(2):187-193.
- 20) **Mohammadreza Mirzaei** , Mahdi Mahmoudi, Gholamhossein Hassan Shahi, Amir Rahnama, Mahmoud Sheikh Fathollahi , Fahmideh Bagrezai. The comparison of selffrenewal gene expression pattern in cancer cell lines, tumor tissue and normal tissue of the bladder tumor. *J Shahrekord Univ Med Sci* 2016, 18(2): 54-61.
- 21) Fahmideh Bagrezaei, Mehdi Mahmoodi, Mohammad Reza Hajizadeh, Vajihe Akbarpoor, Reza Bahramabadi and **Mohammad Reza Mirzaei**. Curcumin Effect on the Expressional Profile of OCT4, Nanog and Nucleostemin Genes in AGS(Adenocarcinoma) Cancer Cell Line. *Zahedan J Res Med Sci*. 2016;

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- 22) Hosseini FS, Fattahpour Sh, Asadpour M, Hassanshahi Gh, Hajizade MR, Khoshdel A, **Mirzaei MR**, Mahmoodi M. The Effect of the Hydroalcoholic Extract of Persian shallot (*Allium hirtifolium Boiss*) on Albumin Glycation. *Journal of Shahrekord University of Medical Sciences*. 2016; 17(Suppl): 22-31.
- 23) Ahmadi Rad H, Hemmati M, Mahmoudi M, Sayadianari A, **Mirzaei MR**, Khoshdel A, Amiri M, MohammadainShahrababaki F, Hajizadeh MR. Evaluating Blood Parameters and P53 and IL6 Gene Expression in Personnel of Copper Complex in Comparison with Control Group. *Journal of Fasa University of Medical Sciences*. 2016;.5(4):460-9.
- 24) Mohammadain Shahrababaki F, Mahmoudi M, **Mirzaei MR**, Khoshdel A, SHeikhFathollahi M, Zinodini N, Hajizadeh MR. Expression of Some Genes Involved in Epigenetic in Breast Cancer Cell Lines: The Effect of Quercetin. *Journal of Fasa University of Medical Sciences*. 2015;:5(3):413-424.
- 25) **Mirzaei MR**, Mahmoodi M, Hajizadeh MR, Bagrezaei F, Bahramabadi R. OCT4B1 and its Role in Suppression of TRAF Family Gene Expression in Cancer Cell lines. *Community Health*. 2015; 9(1):27-36.
- 26) **Mirzaei MR**, Mahmoodi M, Hajizadeh MR, Bagrezaei F, Akbarpoor V, Bahramabadi R. The survey of curcumin effect on the expressional profile of OCT4, Nanog and Nucleostemin genes in AGS (adenocarcinoma) cancer cell line. *Community Health*. 2014; 8(1):19-27.
- 27) Mahmoodi M, Sayyadi AR, HosseiniZijoud SM, Hajizadeh MR, Kazemi Arababadi M, Asadikaram GR, **Mirzai MR**, Poladvand V, Sadeghi A, Shamsi zadeh A , Hassanshahi GR. Survey on the Effects of Different Concentrations of *Citrullus colocynthis* Fruit Powder on Some of the Blood Biochemical Factors in Normal and Diabetic Male Rats. *Rafsanjan Medical University journal*.2013; 11(1,2):11-20.
- 28) Bagrezaei F, Mahmoodi M, Rezaian M, **Mirzaei MR**, Nazari M, Khorramdel

H, Hajizadeh MR, Mohammadian F. The study of Effect of hydroalcoholic Extract of Airial Parts of Scrophularia Striata on the Glucokinase Gene Expression in Type 1 Diabetic Rats. Community Health. 2013; 7(4):45-52.

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30) Taeb M, Mortazavi-Jahromi SS, Jafarzadeh A, Mirzaei MR, Mirshafiey A. An in vitro evaluation of anti-aging effect of guluronic acid (G2013) based on enzymatic oxidative stress gene expression using healthy individuals PBMCs. Biomed Pharmacother. 2017; 90:262-267.

31) Farzaneh Sadat Hosseini, Soudeh Khanamani Falahati-pour, Mohammad Reza Hajizadeh, Alireza Khoshdel, Mohammad Reza Mirzaei, Hadis Ahmadirad, Reza Behroozi, Nesa Jafari, Mehdi Mahmoodi. Persian shallot, *Allium hirtifolium* Boiss, induced apoptosis in human hepatocellular carcinoma cells. Cytotechnology. 2017; 69: 551–563.

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33) V Akbarpoor, F Bagrezaei, M Mahmoodi, MR Hajizadeh, M Sheikh Fathollahi MR Mirzaei. The Survey of Saffron Extract Effects on Expressional Pattern of Some Self-renewal genes in AGS (gastric adenocarcinoma) Tumor Cell Line. Community Health. 2017; 10(4):66-75.

34) Rahim Heidari barchi, Fatemeh Asadi, Mohammad Reza Mirzaei, Seyyed

Meysam Abtahi Froushani. Comparison of the effects of 17 $\beta$ - estradiol treated and untreated mesenchymal stem cells on ameliorating animal model of multiple sclerosis. *Iran J Basic Med Sci*, 2018;21(9): 936-942.

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36) **Mohammad Reza Mirzaei**, Shima Khajouee Ravari, Gholamhosein Hasanshahi, Mehdi Mahmoodi, Rahim Heidari barchi nezhad, Fatemeh Asadi. The Relationship between the Expression of Small Heat-Shock Proteins and Suppression of OCT4B1. *Journal of Kerman University of Medical Sciences*, 2018; 25 (2): 137-146.

37) **Mirzaei MR**, Hassanshahi GH, Mahmoodi M, Hajizadeh MR, Asadi F, Pooladvand V. OCT4B1 Suppression down Regulated BCL2 Gene Family Expression in Human Tumor Cell Lines. *International Journal of Cancer & Cellular Biology Research*. 2017; 2(1): 23-28.