

Mohammad Reza Mirzaei



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Ph.D of molecular Genetics, Assistants professor in Rafsanjan
University of Medical Sciences

Educations:

Ph.D 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. Rasae, M. pooramir: Extraction and purification of anti-protein 3 (PR3) antibodies from egg yolk. Iranian Biochemical Journal. 2005; 9(1):41-45.
- 4) H. Timuri, P. Mehdipour, M. Atri and **MR. Mirzaei**. Detection of gene mutation in exons 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. Kazemi Arababadi, **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.
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- 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 $\delta\text{C}32$ 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. RNA interference – 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.

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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 aahossein Asadi, Seyyed 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.

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- 23) Ahmadi Rad H, Hemmati M, Mahmoudi M, Sayadianari A, **Mirzaei MR**, Khoshdel A, Amiri M, MohammadainShahrbabaki 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.
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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.

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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 β - 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.
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- Reza Mirzaei, Alireza Khoshdel, Zahra Hajializadeh, Mohammad Ali Fahmidehkar, Mahdi Mahmoodi. Neuroprotective and antihyperalgesic effects of orexin-A in rats with painful diabetic neuropathy. *Neuropeptides*. 2019;73:34-40.
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- 41) Farzaneh Sadat Hosseini¹, Mojgan Noroozi Karimabad, Mohammad Reza Hajizadeh, Alireza Khoshdel, Soudeh Khanamani Falahati-Pour, Mohammad Reza Mirzaei, Seyed Mehdi Mirmohamadi¹, Mehdi Mahmoodi. Evaluating of Induction of Apoptosis by Cornus mass L. Extract in the Gastric Carcinoma Cell Line (AGS). *Asian Pac J Cancer Prev*. 2018; 20 (1): 123-130.
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- 44) Maryam Mohammad-Sadeghipour, Mehdi Mahmoodi, Soudeh

Khanamani Falahati-pour, Alireza Khoshdel, Mohammad Ali Fahmidehkar, **Mohammad Reza Mirzaei**, Mojgan Noroozi Karimabad, Mohammad Reza Hajizadeh. Trigonella foenum-graecum seed extract modulates expression of lipid metabolism related genes in HepG2 cells. *Asian Pacific Journal of Tropical Biomedicine* 2019; 9(6): 240-248. doi: 10.4103/2221-1691.260396.

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Lotfibaikshaiesh, **Mohammad Reza Mirzaei**. Therapeutic effects of combination of platelet lysate and sulfasalazine administration in TNBS-induced colitis in rat. *Biomedicine & Pharmacotherapy* 2020(115) 109949

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