

CURRICULUM VITAE

PERSONAL DETAILS

Name: Mohammad Kazemi

Work address: Dept. of Genetics and Molecular Biology, School of Medicine, Isfahan University of Medical Sciences, Isfahan, Iran.

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PRESENT POSITION

- Assistant Professor at the Department of Genetics and Molecular Biology, School of Medicine, Isfahan University of Medical Sciences

EDUCATION

1994-1999:

M.Sc in Microbiology from Science College, Isfahan University, Isfahan, Iran.

1999-2001:

B.Sc in Microbiology from Science College, Isfahan University, Isfahan, Iran.

2012-2017

PhD in Molecular Medicine, Department of Genetics and Molecular Biology,
School of Medicine, Isfahan University of Medical Sciences, Isfahan, Iran.

LANGUAGES

Persian (native)

English

HONORS

- First ranked in the PhD national entrance exam in the field of Molecular Medicine
- First ranked in the M.Sc national entrance exam in the field of Microbiology
- Highest-ranked M.Sc student in Microbiology, University of Isfahan
- Highest-ranked PhD student in Molecular Medicine, Isfahan University of Medical Sciences

SKILLS

Bacteriology (traditional diagnostic tests)

Cell culture

PCR

Electrophoresis

SSCP

RT-PCR

Real Time PCR

HRM

dHPLC

WORK EXPERIENCES

2006- present :

Researcher in in Dept. of Genetic and Molecular Biology, School of Medicine

INTERESTS

Non-invasive detection of chromosomal and genetic disorders using cell free fetal DNA (cffDNA)

PHD THESIS

Assessment of Optimized Condition for Non-invasive Prenatal Diagnosis of Fetal Trisomy 21 Using Cell-Free Fetal DNA in Maternal Blood

PUBLICATIONS

A. RESEARCH ARTICLES:

1. Sadeghian-Rizi T, Alsahebfosoul F, Kazemi M, Khanahmad H, Jahanian-Najafabadi A. Association of AIRE polymorphism and the susceptibility to multiple sclerosis in Iranian population. Avicenna journal of medical biotechnology. 2018;10(2):110-4.
2. Navabi F, Shaygannejad V, Abbasirad F, Vaez E, Hosseinasab F, Kazemi M, et al. Immunoregulatory Effects of Silymarin on Proliferation and Activation of Th1 Cells Isolated from Newly Diagnosed and IFN- β 1b-Treated MS Patients.

Inflammation. 2018:1-10.

3. Khorvash F, Kheirollahi M, Kazemi M, Amini G, Khorrami M, Mirsafaei M, et al. Variants in Human Prostacyclin Receptor Gene in Patients with Migraine Headache. *Iranian Journal of Psychiatry*. 2018;13(4):239-43.
4. Kazemi M, Khosravian F, Sameti AA, Moafi A, Merasi MR, Salehi M, et al. Association between (GT) n Repeats in Heme Oxygenase-1 Gene Promoter and 3-Year Survival of Patients with Acute Leukemia: A Controlled, Cross-Sectional Study. *International Journal of Hematology-Oncology and Stem Cell Research*. 2018.
5. Hashemibeni B, Valiani A, Esmaeili M, Kazemi M, Aliakbari M, Golshan Iranpour F. Comparison of the efficacy of piascledine and transforming growth factor β 1 on chondrogenic differentiation of human adipose-derived stem cells in fibrin and fibrin-alginate scaffolds. *Iranian journal of basic medical sciences*. 2018.
6. Hadizadeh M, Mohaddes Ardebili SM, Salehi M, Young C, Mokarian F, McClellan J, et al. GJA4/Connexin 37 Mutations Correlate with Secondary Lymphedema Following Surgery in Breast Cancer Patients. *Biomedicines*. 2018;6(1):23.
7. Ghavimi R, Alsahebfosoul F, Salehi R, Kazemi M, Etemadifar M, Hosseini AZ. High-resolution melting curve analysis of polymorphisms within CD58, CD226, HLA-G genes and association with multiple sclerosis susceptibility in a subset of Iranian population: a case–control study. *Acta Neurologica Belgica*. 2018:1-8.
8. Ghalamkari S, Khosravian F, Mianesaz H, Kazemi M, Behjati M, Hakimian SM, et al. A Comparison Between Full-COLD PCR/HRM and PCR Sequencing for Detection of Mutations in Exon 9 of PIK3CA in Breast Cancer Patients. *Applied biochemistry and biotechnology*. 2018:1-9.
9. Fesharaki M, Razavi S, Ghasemi-Mobarakeh L, Behjati M, Yarahmadian R,

Kazemi M, et al. Differentiation of Human Scalp Adipose-Derived Mesenchymal Stem Cells into Mature Neural Cells on Electrospun Nanofibrous Scaffolds for Nerve Tissue Engineering Applications. *Cell Journal (Yakhteh)*. 2018;20(2):168.

10. Dastjerdi MN, Azarnezhad A, Hashemibeni B, Salehi M, Kazemi M, Babazadeh Z. An Effective Concentration of 5-Aza-CdR to Induce Cell Death and Apoptosis in Human Pancreatic Cancer Cell Line through Reactivating RASSF1A and Up-Regulation of Bax Genes. *Iranian Journal of Medical Sciences*. 2018;43(5).

11. Dabiri A, Mansouri R, Kazemi M, Eskandari N, Shaygannejad V, Manian M, et al. OX40 Gene Expression and its Serum Levels in New Cases of Patients with Multiple Sclerosis. *Advances in Neuroimmune Biology*. 2018;7(1):49-52.

12. Nedaeinia R, Sharifi M, Avan A, Kazemi M, Nabinejad A, Ferns GA, et al. Inhibition of microRNA-21 via locked nucleic acid-anti-miR suppressed metastatic features of colorectal cancer cells through modulation of programmed cell death 4. *Tumor Biology*. 2017;39(3):1010428317692261.

13. Kazemi M, Salehi M, Kheirollahi M. MeDIP real-time qPCR has the potential for noninvasive prenatal screening of fetal trisomy 21. *International journal of molecular and cellular medicine*. 2017;6(1):13.

14. Amirpour N, Razavi S, Esfandiari E, Hashemibeni B, Kazemi M, Salehi H. Hanging drop culture enhances differentiation of human adipose-derived stem cells into anterior neuroectodermal cells using small molecules. *International Journal of Developmental Neuroscience*. 2017;59:21-30.

15. Alsahebfosoul F, Salehi R, Ghaffari S, Jahanbani-Ardakani H, Etemadifar M, Kazemi M, et al. CD25 gene polymorphism and multiple sclerosis. *Multiple Sclerosis and Related Disorders*. 2017;18:117-8.

16. Zarinfard G, Tadjalli M, Razavi S, Kazemi M. Effect of Laminin on Neurotrophic Factors Expression in Schwann-Like Cells Induced from Human Adipose-Derived Stem Cells In Vitro. *Journal of Molecular Neuroscience*. 2016:1-

9.

17. Vatandoost N, Salehi AR, Kazemi M, Khosravi S, Eslami G, Kamali S, et al. Genetic polymorphism of 8 Y-STR loci in native population of Isfahan province in central part of Iran. *Annals of Human Biology*. 2016;1-14.

18. Nedaeinia R, Sharifi M, Avan A, Kazemi M, Rafiee L, Ghayour-Mobarhan M, et al. Locked nucleic acid anti-miR-21 inhibits cell growth and invasive behaviors of a colorectal adenocarcinoma cell line: LNA-anti-miR as a novel approach. *Cancer gene therapy*. 2016;23(8):246.

19. Mohammadi N, Adib M, Alsahebfosoul F, Kazemi M, Etemadifar M. Corrigendum to “An investigation into the association between HLA-G 14 bp insertion/deletion polymorphism and multiple sclerosis susceptibility”[*Journal of Neuroimmunology* 290 (2016) 115–118]. *Journal of neuroimmunology*. 2016;295:164.

20. Mohammadi N, Adib M, Alsahebfosoul F, Kazemi M, Etemadifar M. An investigation into the association between HLA-G 14bp insertion/deletion polymorphism and multiple sclerosis susceptibility. *Journal of Neuroimmunology*. 2016.

21. Li N, Subrahmanyam L, Smith E, Yu X, Zaidi S, Choi M, et al. Mutations in the histone modifier PRDM6 are associated with isolated nonsyndromic patent ductus arteriosus. *The American Journal of Human Genetics*. 2016;98(6):1082-91.

22. kazemi M, Salehi M, Kheirollahi M. Down Syndrome: Current Status, Challenges and Future Perspectives. *International Journal of Molecular and Cellular Medicine (IJMCM)*. 2016.

23. Kazemi M, Rahimi AM, Roshankhah S. Impact Assessment of Effective Parameters on Drivers' Attention Level to Urban Traffic Signs. *Journal of The Institution of Engineers (India): Series A*. 2016;97(1):63-9.

24. Azadbakht AA, Eidelkhani N, Kazemi M, Radahmadi M, Reisi P. Doxepin

improves stress-impaired long-term potentiation and gene expression of BDNF in the rat hippocampus. *Physiology and Pharmacology*. 2016;20(4):231-8.

25. Ashouri S, Khujin MH, Kazemi M, Kheirollahi M. Effect of teicoplanin on the expression of c-myc and c-fos proto-oncogenes in MCF-7 breast cancer cell line. *Advanced biomedical research*. 2016;5.

26. Alsahebfosoul F, Salehi R, Hosseini ZA, Etemadifar M, Kazemi M, editors. Association of Genetic Variant Rs763361 on CD226 Gene in Relapsing Remitting Multiple Sclerosis (RRMS) Patients Compared to Control Group. *MULTIPLE SCLEROSIS JOURNAL*; 2016: SAGE PUBLICATIONS LTD 1 OLIVERS YARD, 55 CITY ROAD, LONDON EC1Y 1SP, ENGLAND.

27. Zeinalian M, Hashemzadeh-Chaleshtori M, Salehi R, Kazemi M, Emami MH. Tumor microsatellite instability and clinicopathologic features in Iranian colorectal cancer patients at risk for Lynch syndrome. *Journal of research in medical sciences: the official journal of Isfahan University of Medical Sciences*. 2015;20(2):154.

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following radiation overexposure in radiotherapy programs. *Advanced biomedical research*. 2015;4:119.

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33. Razavi S, Khosravizadeh Z, Bahramian H, Kazemi M. Changes of neural markers expression during late neurogenic differentiation of human adipose-derived stem cells. *Advanced biomedical research*. 2015;4.

34. Razavi S, Khosravizadeh Z, Bahramian H, Kazemi M. Time-Dependent Effect of Encapsulating Alginate Hydrogel on Neurogenic Potential. *Cell Journal (Yakhteh)*. 2015;17(2):304.

35. Mojaver M, Mokarian F, Kazemi M, Salehi M. Specific TaqMan allelic discrimination assay for rs1477196 and rs9939609 single nucleotide polymorphisms of FTO gene demonstrated that there is no association between these SNPs and risk of breast cancer in Iranian women. *Advanced biomedical research*. 2015;4:136.

36. Khosravizadeh Z, Razavi S, Bahramian H, Kazemi M. Cell Viability and Neural Markers Expression of Human Adipose-Derived Stem Cells after Neural Induction in Alginate Tridimensional Cell Culture. *Journal of Isfahan Medical School*. 2015;33(350).

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40. Jamshidian A, Kazemi M, Shaygannejad V, Salehi M. The Effect of Plasma Exchange on the Expression of FOXP3 and RORC2 in Relapsed Multiple Sclerosis Patients. *Iranian journal of immunology : IJI*. 2015;12(4):311-8.
41. Jamshidian A, Kazemi M, Shaygannejad V, Salehi M. The Effect of Plasma Exchange on the Expression of FOXP3 and RORC2 in Relapsed Multiple Sclerosis Patients. *Iranian journal of immunology: IJI*. 2015;12(4):311-8.
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43. Eidelkhani N, Radahmadi M, Kazemi M, Rafiee L, Alaei H, Reisi P. Effects of doxepin on brain-derived neurotrophic factor, tumor necrosis factor alpha, mitogen-activated protein kinase 14, and AKT1 genes expression in rat hippocampus. *Advanced biomedical research*. 2015;4.
44. Behjati M, Moradi I, Kazemi M. Application of novel anodized titanium for enhanced recruitment of H9C2 cardiac myoblast. *Iranian journal of basic medical sciences*. 2015;18(9):873-7.
45. Zarifian T, GHOLAMI TL, SALAVATI M, MODARESI Y, DASTJERDI KM. The percentage of vowel correct scale in Persian speaking children. 2014.
46. Valiani A, Hashemibeni B, Esfandiary E, Ansari MM, Kazemi M, Esmaili N. Study of carbon nano-tubes effects on the chondrogenesis of human adipose derived stem cells in alginate scaffold. *International journal of preventive medicine*. 2014;5(7):825-34.

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49. Sharifi M, Salehi R, Gheisari Y, Kazemi M. Inhibition of microRNA miR-92a induces apoptosis and necrosis in human acute promyelocytic leukemia. *Advanced biomedical research*. 2014;3:61.
50. Sharifi M, Salehi R, Gheisari Y, Kazemi M. Inhibition of microRNA miR-92a induces apoptosis and inhibits cell proliferation in human acute promyelocytic leukemia through modulation of p63 expression. *Molecular biology reports*. 2014.
51. Savabi O, Kazemi M, Salehi R. Effects of Biosurfactants Derived from *Lactobacillus Casei* and *Lactobacillus Reuteri* on Gene Expression Profile of gtfB/C and ftf Genes in *Lactobacillus Mutans*. *Journal of Isfahan Medical School*. 2014;31(260).
52. Savabi O, Kazemi M, Kamali S, Salehi AR, Eslami G, Tahmourespour A, et al. Effects of biosurfactant produced by *Lactobacillus casei* on gtfB, gtfC, and ftf gene expression level in *S. mutans* by real-time RT-PCR. *Advanced biomedical research*. 2014;3.
53. Salehi R, Savabi O, Kazemi M, Kamali S, Salehi AR, Eslami G, et al. Effects of *Lactobacillus reuteri*-derived biosurfactant on the gene expression profile of essential adhesion genes (gtfB, gtfC and ftf) of *Streptococcus mutans*. *Advanced biomedical research*. 2014;3:169.
54. Salehi R, Savabi O, Kazemi M. Effects of *Lactobacillus reuteri*-derived

biosurfactant on the gene expression profile of essential adhesion genes (gtfB, gtfC and ftf) of *Streptococcus mutans*. *Advanced biomedical research*. 2014;3.

55. Razavi S, Mostafavi FS, Mardani M, Zarkesh Esfahani H, Kazemi M, Esfandiari E. Effect of T3 hormone on neural differentiation of human adipose derived stem cells. *Cell biochemistry and function*. 2014;32(8):702-10.

56. Razavi S, Mostafavi FS, Mardani M, Zarkesh Esfahani H, Kazemi M, Esfandiari E. Effect of T hormone on neural differentiation of human adipose derived stem cells. *Cell biochemistry and function*. 2014.

57. Mousavi SM, Kazemi M, Salehi M, Kamali E, Karimi P, Karahmadi M. RORa Gene Contribution to Autism; Another Epigenetic Layer on Autism Complexity. ژنتیک در هزاره سوم. ۲۰۱۴.

58. Mostafavi FS, Razavi S, Mardani M, Esfandiari E, Esfahani HZ, Kazemi M. Comparative Study of Microtubule-associated Protein-2 and Glial Fibrillary Acidic Proteins during Neural Induction of Human Bone Marrow Mesenchymal Stem Cells and Adipose-Derived Stem Cells. *International journal of preventive medicine*. 2014;5(5):584-95.

59. Mohammad Bagher Tavakkoli, Majid Kheirollahi AK, Mohammad Kazemi, Leili Mohebat, Shagayegh Haghjooy Javanmard, Roayae M. Evaluation of Measuring Radiation-Induced Apoptosis in Human T-Lymphocytes by FlowCytometry as a Biological Dosimetry System. *J Isfahan Med Sch*. 2014;32(284):610-20.

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61. Kazemi M, Jalae SA, Abadi E, Fard HA. Investigation the Impact of Exchange Rate Uncertainty on Economic Growth in Iran by Neural Networks. 2014.

62. Homayouni V, Salehi M, Kazemi M. Investigating of microsatellites instability in patients with hereditary non-polyposis colorectal cancer in Isfahan. *Advanced biomedical research*. 2014;3:145.
63. Esfandiary E, Karimipour M, Mardani M, Alaei H, Ghannadian M, Kazemi M, et al. Novel effects of *Rosa damascena* extract on memory and neurogenesis in a rat model of Alzheimer's disease. *Journal of neuroscience research*. 2014;92(4):517-30.
64. Esfandiari E, Roshankhah S, Mardani M, Hashemibeni B, Naghsh E, Kazemi M, et al. The effect of high frequency electric field on enhancement of chondrogenesis in human adipose-derived stem cells. *Iranian journal of basic medical sciences*. 2014;17(8):571-6.
65. Dastjerdi MN, Babazadeh Z, Salehi M, Hashemibeni B, Kazemi M. Comparison of the anti-cancer effect of Disulfiram and 5-Aza-CdR on pancreatic cancer cell line PANC-1. *Advanced biomedical research*. 2014;3:156.
66. Alsahebfosoul F, Salehi R, Hosseini AZ, Etemadifar M, Kazemi M, Tajodin MH. P016 - Evaluation of SNP rs763361 on Gly307Ser gene in multiple sclerosis patients compared to healthy subjects. *Multiple Sclerosis and Related Disorders*. 2014;3(6):744.
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69. Sharifi M, Salehi R, Gheisari Y, Kazemi M. Inhibition of MicroRNA miR-

92a Inhibits Cell Proliferation in Human Acute Promyelocytic Leukemia. Turkish journal of haematology : official journal of Turkish Society of Haematology. 2013;30(2):157-62.

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Vitro. Iranian journal of basic medical sciences. 2013;16(6):763-73.

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alterations (5 and 6 exons) in bovine urinary bladder tumors *Journal of Veterinary Research*. 2012;67(1):27-34.

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NEUROGENIC INDUCTION IN HUMAN ADIPOSE DERIVED STEM CELLS.
2011.

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B. BOOK TRANSLATION:

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WORKSHOPS

- 1- Transgenomic training course on the WAVE Mutation Detection System. 2012. Transgenomic Representative Dr. Joachim Fischer. Tehran, IRAN.
- 2- Concepts and techniques in miRNA and siRNA biology- September 2010. Stem cell Technology Research Center. Tehran, IRAN.
- 3- Non-viral methods for gene transfer to animal cells- September 2010. Stem cell Technology Research Center. Tehran, IRAN.

4- Gene cloning- September 2010. Stem cell Technology Research Center.
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5- Lentiviral vectors- September 2010. Stem cell Technology Research Center.
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