

CURRICULUM VITAE

PERSONAL DETAILS

Name: Mohammad Kazemi

Date and place of birth: 28th of JULY 1975, Isfahan, Iran.

Marital Status: Married, Two Children

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

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PRESENT POSITION

- PhD of Molecular Medicine
- Researcher 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.

2012-2016

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

LANGUAGES

Persian (native)

English (intermediate)

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. Tavasoli M, Jahromi M, Kazemi M, Rabiee A, Esmaeel N, Hashemibeni B. Evaluation of Pomegranate Seed Extract and TGF- β 3 on Chondrogenic Differentiation of Human Adipose-Derived Stem Cells. Journal of Applied

Biotechnology Reports. 2022;9(1):539-46.

2. Mousavi SR, Lotfi H, Salmanizadeh S, Feizbakhshan S, Khosravian F, Sajjadi MS, et al. An experimental in silico study on COVID - 19: Response of neutrophil - related genes to antibiotics. Health Science Reports. 2022;5(2):e548.
3. Honarvar A, Karbasi S, Hashemibeni B, Setayeshmehr M, Kazemi M, Valiani A. Effects of cartilage acellular solubilised ECM on physicochemical and biological properties of polycaprolactone/fibrin hybrid scaffold fabricated by 3D-printing and salt-leaching methods. Materials Technology. 2022;37(3):204-12.
4. Hasanzadeh A, Rafiei A, Kazemi M, Beiromvand M, Bahreini A, Khanahmad H. The Role of Tissue Inhibitor of Metalloproteinase-1 and 2 in Echinococcus granulosus senso lato-Induced Human Hepatic Fibrosis (Mar, 10.1007/s11686-022-00534-4, 2022). ACTA PARASITOLOGICA. 2022;67(2):1054-.
5. Hasanzadeh A, Rafiei A, Kazemi M, Beiromvand M, Bahreini A, Khanahmad H. Correction to: The Role of Tissue Inhibitor of Metalloproteinase-1 and 2 in Echinococcus granulosus senso lato-Induced Human Hepatic Fibrosis. Acta Parasitologica. 2022;67(2):1054-.
6. Hasanzadeh A, Rafiei A, Kazemi M, Beiromvand M, Bahreini A, Khanahmad H. The Role of Tissue Inhibitor of Metalloproteinase-1 and 2 in Echinococcus granulosus senso lato-Induced Human Hepatic Fibrosis. Acta Parasitologica. 2022:1-7.
7. Dezfuly AR, Safaee A, Amirpour N, Kazemi M, Ramezani A, Jafarinia M, et al. Therapeutic effects of human adipose mesenchymal stem cells and their paracrine agents on sodium iodate induced retinal degeneration in rats. Life Sciences. 2022;300:120570.
8. Baghbadorani PZ, Damavandi AR, Kardede B, Mostafavi S, Salehi R, Kazemi M, et al. Association between the IL-7R α gene polymorphisms of rs6897932 and rs987106 with atopic diseases: A case-control design. 2022.

9. Amiri F, Babaei M, Jamshidi N, Agheb M, Rafienia M, Kazemi M. Fabrication and assessment of a novel hybrid scaffold consisted of polyurethane-gellan gum-hyaluronic acid-glucosamine for meniscus tissue engineering. *International Journal of Biological Macromolecules*. 2022;203:610-22.
10. Abdollahi Z, Tabatabaiefar MA, Noruzi M, Miar P, Kazemi M, Naimi A, et al. A Simplified Protocol for Microsatellite Instability Evaluation in Iranian Patients at Risk for Lynch Syndrome. *Laboratory Medicine*. 2022;53(3):235-41.
11. Yazdani F, Mohammadi A, Abdipour A, Kazemi M. Characterization of GFDM Signal with Timing Offset, CFO, Non-Linearity, and PN. 2021.
12. Shariati Najafabadi S, Amirpour N, Amini S, Zare N, Kazemi M, Salehi H. Human adipose derived stem cell exosomes enhance the neural differentiation of PC12 cells. *Molecular Biology Reports*. 2021;48(6):5033-43.
13. Seyedebrahimi R, Razavi S, Varshosaz J, Vatankhah E, Kazemi M. Beneficial effects of biodelivery of brain-derived neurotrophic factor and gold nanoparticles from functionalized electrospun PLGA scaffold for nerve tissue engineering. *Journal of Cluster Science*. 2021;32(3):631-42.
14. Rezaei M, Samani RK, Kazemi M, Shanei A, Hejazi S. Induction of a bystander effect after therapeutic ultrasound exposure in human melanoma: In-vitro assay. *International Journal of Radiation Research*. 2021;19(1):183-9.
15. Mousavi SR, Sajjadi MS, Khosravian F, Feizbakhshan S, Salmanizadeh S, Esfahani ZT, et al. Dysregulation of RNA interference components in COVID-19 patients. *BMC research notes*. 2021;14(1):1-7.
16. Jahromi M, Razavi S, Seyedebrahimi R, Reisi P, Kazemi M. Regeneration of rat sciatic nerve using PLGA conduit containing rat ADSCs with controlled release of BDNF and gold nanoparticles. *Journal of Molecular Neuroscience*. 2021;71(4):746-60.
17. Gorji M, Zargar A, Setayeshmehr M, Ghasemi N, Soleimani M, Kazemi M,

et al. Releasing and structural/mechanical properties of nano-particle/Punica granatum (Pomegranate) in poly (lactic-co-glycolic) acid/fibrin as nano-composite scaffold. Bratislavske Lekarske Listy. 2021;122(1):54-64.

18. Bakhtiari M, Ghasemi N, Salehi H, Amirpour N, Kazemi M, Mardani M. Evaluation of Edaravone effects on the differentiation of human adipose derived stem cells into oligodendrocyte cells in multiple sclerosis disease in rats. Life Sciences. 2021;282:119812.

19. Teimourinejad A, Hashemibeni B, Salehi H, Mostafavi FS, Kazemi M, Bahramian H. Chondrogenic activity of two herbal products; pomegranate fruit extract and avocado/soybean unsaponifiable. Research in Pharmaceutical Sciences. 2020;15(4):358.

20. Soltani N, Marandi SM, Kazemi M, Esmail N. Meta-inflammatory state and insulin resistance can improve after 10 weeks of combined all-extremity high-intensity interval training in sedentary overweight/obese females: a quasi-experimental study. Journal of Diabetes & Metabolic Disorders. 2020;19(2):717-26.

21. Soltani N, Marandi SM, Kazemi M, Esmail N. Combined all-extremity high-intensity interval training regulates immunometabolic responses through toll-like receptor 4 adaptors and A20 downregulation in obese young females. Obesity Facts. 2020;13(3):415-31.

22. Soltani N, Marandi SM, Kazemi M, Esmail N. The exercise training modulatory effects on the obesity-induced immunometabolic dysfunctions. Diabetes, metabolic syndrome and obesity: targets and therapy. 2020;13:785.

23. Sabet M, Sharifi M, Heidari M, Babaei N. Degradation of HOX Transcript Antisense RNA Provoked Apoptosis and Necrosis in Human Ovarian Cancer Cells. Indian Journal of Gynecologic Oncology. 2020;18(2):1-7.

24. Redner R, Salvatori B, Iosue I, Djodji Damas N, Mangiavacchi A, Chiaretti S, et al. PROFILING KARYOTYPE-DEPENDENT PATTERNS OF miRNA

EXPRESSION IN ACUTE PROMYELOCYTIC LEUKEMIA. ЦИТОЛОГИЯ. 2020;62(4).

25. Gorji M, Ghasemi N, Setayeshmehr M, Zargar A, Kazemi M, Soleimani M, et al. The effects of fibrin–icariin nanoparticle loaded in poly (lactic-co-glycolic) acid scaffold as a localized delivery system on chondrogenesis of human adipose-derived stem cells. *Advanced Biomedical Research*. 2020;9.

26. Ghavimi R, Alsahebfosoul F, Salehi R, Kazemi M, Etemadifar M, Zavaran Hosseini A. 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*. 2020;120(3):645-52.

27. Fattahi M, Eskandari N, Sotoodehnejadnematalahi F, Shaygannejad V, Mohammad K. Comparison of the expression of miR-326 between interferon beta responders and non-responders in relapsing-remitting multiple sclerosis. *Cell Journal (Yakhteh)*. 2020;22(1):92.

28. Basiri A, Hashemibeni B, Kazemi M, Valiani A, Aliakbari M, Ghasemi N. Cartilage tissue formation from human adipose-derived stem cells via herbal component (Avocado/soybean unsaponifiables) in scaffold-free culture system. *Dental Research Journal*. 2020;17(1):54.

29. Azimzadeh M, Mahmoodi M, Kazemi M, Hakemi MG, Jafarinia M, Eslami A, et al. The immunoregulatory and neuroprotective effects of human adipose derived stem cells overexpressing IL-11 and IL-13 in the experimental autoimmune encephalomyelitis mice. *International Immunopharmacology*. 2020;87:106808.

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31. Amini S, Saudi A, Amirpour N, Jahromi M, Najafabadi SS, Kazemi M, et al. Application of electrospun polycaprolactone fibers embedding lignin nanoparticle for peripheral nerve regeneration: in vitro and in vivo study. *International Journal of Biological Macromolecules*. 2020;159:154-73.
32. Verij Kazemi M, Gholamian SA, Sadati J. Adaptive frequency control with variable speed wind turbines using data-driven method. *Journal of renewable and sustainable energy*. 2019;11(4):043305.
33. 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 (Retraction of Vol 41, Pg 2799, 2014). *SPRINGER VAN GODEWIJCKSTRAAT 30, 3311 GZ DORDRECHT, NETHERLANDS*; 2019.
34. Shariati M, Shaygannejad V, Abbasirad F, Hosseinasab F, Kazemi M, Mirmosayyeb O, et al. Silymarin restores regulatory t cells (TREGS) function in multiple sclerosis (MS) patients in vitro. *Inflammation*. 2019;42(4):1203-14.
35. Saudi A, Amini S, Amirpour N, Kazemi M, Kharazi AZ, Salehi H, et al. Promoting neural cell proliferation and differentiation by incorporating lignin into electrospun poly (vinyl alcohol) and poly (glycerol sebacate) fibers. *Materials Science and Engineering: C*. 2019;104:110005.
36. Sattary M, Rafienia M, Kazemi M, Salehi H, Mahmoudzadeh M. Promoting effect of nano hydroxyapatite and vitamin D3 on the osteogenic differentiation of human adipose-derived stem cells in polycaprolactone/gelatin scaffold for bone tissue engineering. *Materials Science and Engineering: C*. 2019;97:141-55.
37. Salehi H, Razavi S, Esfandiari E, Kazemi M, Amini S, Amirpour N. Application of hanging drop culture for retinal precursor-like cells differentiation of human adipose-derived stem cells using small molecules. *Journal of Molecular Neuroscience*. 2019;69(4):597-607.

38. Rezaei M, Kamran-Samani R, Shanei A, Kazemi M, Hejazi SH. Investigation of the expression of P53 gene in bystander cells after therapeutic ultrasound exposure. *KAUMS Journal (FEYZ)*. 2019;23(4):344-51.
39. Navabi F, Shaygannejad V, Abbasirad F, Vaez E, Hosseininasab F, Kazemi M, et al. Immunoregulatory effects of silymarin on proliferation and activation of Th1 cells isolated from newly diagnosed and IFN- γ -treated MS patients. *Inflammation*. 2019;42(1):54-63.
40. Narimani M, Sharifi M, Hakhmaneshi MS, Roshani D, Kazemi M, Hejazi SH, et al. BIRC5 gene disruption via CRISPR/Cas9n platform suppress acute myelocytic leukemia progression. *Iranian Biomedical Journal*. 2019;23(6):369.
41. Mahsa Sabet MS, Mansour Heidari, Mohammad Kazemi, Nahid Babaei. Blockage of HOTAIR Reduced Cell Proliferation in Human Ovarian Cancer Cells Through Upregulation of AKT2. *Indian Journal of Gynecologic Oncology*. 2019.
42. Kazemi M, Mohammadi F, Nafarzadegan AR. Evaluation of soil salinity by analyzing Landsat-8 images and field Observations (Case study: Behesht-e-Gomshodeh, Fars province). *Journal of RS and GIS for Natural Resources*. 2019;10(1):88-105.
43. 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*. 2019;187(3):975-83.
44. Amirpour N, Amirizade S, Hashemibeni B, Kazemi M, Hadian M, Salehi H. Differentiation of eye field neuroectoderm from human adipose-derived stem cells by using small-molecules and hADSC-conditioned medium. *Annals of Anatomy-Anatomischer Anzeiger*. 2019;221:17-26.
45. Amini G, Salehi R, Moshtaghi AA, Kazemi M, Behjati M, Khosravi S. Evaluation of SEPP1 and Selenoprotein S Gene Polymorphisms (rs7579 and

rs34713741) in Relation to Colorectal Cancer Susceptibility in Subset of Iranian Population: A Case–control Study. *Advanced Biomedical Research*. 2019;8.

46. Seyedjoodaki A, Alsahebfosoul F, Eskandari N, Shaygannejad V, Salehi M, Kazemi M, et al. OX40 Gene and Serum Protein Expression Profiles in Patients with Parkinson's Disease. *Cell Journal (Yakhteh)*. 2018;20(2):177.

47. Seyedjoodak A, Alsahebfosoul F, Eskandari N, Shaygannejadi V, Salehi M, Kazemi M, et al. Study of Expression Rate of OX40 Gene in Peripheral Blood in Patients with Parkinson's Disease. *Iranian Journal of Allergy, Asthma & Immunology*. 2018;17.

48. 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.

49. Sadeghian T, Khanahmad H, Kazemi M, Jahanian-Najafabadi A, Alsahebfosoul F. The Association of AIRE Polymorphism and the Susceptibility to MS in Iranian Population. *Iranian Journal of Allergy, Asthma & Immunology*. 2018;17.

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51. Moradi B, Tahmasebpour A, Gity M, Kazemi M. EP06. 22: A case of fetal sacrococcygeal teratoma: a comparison between ultrasonography and magnetic resonance imaging findings. *Ultrasound in Obstetrics & Gynecology*. 2018;52:217-.

52. Moradi B, Kia K, Rahmani M, Kazemi M, Tahmasebpour A. EP08. 14: Cavum velum interpositum cysts in normal and anomalous fetuses in second

trimester of pregnancy: comparison of its size and incidence. *Ultrasound in Obstetrics & Gynecology*. 2018;52:225-6.

53. 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.

54. 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;12(1):49.

55. Hatefi Z, Soltani G, Khosravi S, Kazemi M, Salehi AR, Salehi R. Micro R-410 binding site single nucleotide polymorphism rs13702 in lipoprotein lipase gene is effective to increase susceptibility to type 2 diabetes in Iranian population. *Advanced Biomedical Research*. 2018;7.

56. Hashemibeni B, Valiani A, Esmaeli M, Kazemi M, Aliakbari M, Iranpour FG. Comparison of the efficacy of piacledine 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;21(2):212.

57. 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.

58. 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.

59. Entezari MH, Salehi R, Kazemi M, Janghorbani M, Kafeshani M. Comparison of the effect of the Dietary Approaches to Stop Hypertension diet with usual dietary advice on expression of peroxisome proliferators-activated receptor gamma gene in women: A randomized controlled clinical trial. *ARYA atherosclerosis*. 2018;14(1):24.
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62. Aboutorabi R, Behzadi E, Sadegh MJ, Fatehi SP, Semsarzadeh S, Zarrin Y, et al. The study of association between polymorphism of TNF- α gene's promoter region and recurrent pregnancy loss. *Journal of Reproduction & Infertility*. 2018;19(4):211.
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66. Razavi S. Estrogen treatment enhances neurogenic differentiation of human adipose derived stem cells in vitro. 2017.
67. 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.
68. Kheirollahi M, Pourreza MR, Khorvash F, Kazemi M, Amini G. A report of a novel mutation in human prostacyclin receptor gene in patients affected with migraine. *Iranian Journal of Psychiatry*. 2017;12(3):219.
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74. 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.

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YARD, 55 CITY ROAD, LONDON EC1Y 1SP, ENGLAND.

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B. BOOK TRANSLATION:

“Culture of Animal Cells: A Manual of Basic Technique and Specialized Applications, Sixth Edition 2010 ” to Persian.

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.
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