

Curriculum Vitae

1. PERSONAL INFORMATION:

Name: Vahid Razban; Ph.D, Inv.

Email: razban_vahid@yahoo.com

Hyperlinks:

[Googlescholar](#)

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2. CURRENT POSITION:

Associate professor, Department of Molecular Medicine, School of Advanced Medical Sciences and Technologies, Shiraz University of Medical Sciences, Shiraz, Iran

3. PUBLICATIONS:

Papers:

Nammian, P., Asadi-Yousefabad, SL., Daneshi, S., Fallahi, J., Tabei, SM., **Razban, V.***(Corresponding author) Preclinical Evaluation of Bone Marrow Mesenchymal Stem Cells Overexpressing MicroRNA-126 to Treat Critical Limb Ischemia. preprint.

Taghadosi Z, Zarifkar A, **Razban V.** The effect of chronic stress and its preconditioning on spatial memory as well as hippocampal LRP1 and RAGE expression in a streptozotocin-induced rat model of Alzheimer's disease. Preprint.

Asadi-Yousefabad SL, Nammian P, Tabei SM, Daneshi S, Fallahi J, **Razban, V.***(Corresponding author), Sheikha MH. Angiogenesis in diabetic mouse model with critical limb ischemia; cell and gene therapy. Microvascular Research. 2022 May 1;141:104339.

Khorsand M, Khajeh S, Eslami M, Nezafat N, Ghasemi Y, **Razban, V.***(Co-corresponding author), Mostafavi-Pour Z. Telmisartan anti-cancer activities

mechanism through targeting N-cadherin by mimicking ADH-1 function. *Journal of Cellular and Molecular Medicine*. 2022 Feb 27.

Khorsand, M., Mostafavi-Pour, Z., **Razban, V.**, Khajeh, S., Zare, R. Combinatorial effects of telmisartan and docetaxel on cell viability and metastatic gene expression in human prostate and breast cancer cells. *Molecular Biology Research Communications*, 11(1): 11-20.

Moradi, S., Fallahi, J., Tanideh, N., Dara, M., Aliabadi, BE., Nafar, S., Asadi-Yousefabad, SL., Tabei, SM., **Razban, V.***(Co-corresponding author) Genetically modified bone marrow mesenchymal stem cells and dental pulp mesenchymal stem cells by HIF-1alpha overexpression, differs in survival and angiogenic effects after in animal model of hind limb ischemia. *Gene Reports*. 2021 Dec; 25:101187.

Heidari, F., Razmkhah, M., **Razban, V.**, Erfani, N. Effects of indoleamine 2, 3-dioxygenase (IDO) silencing on immunomodulatory function and cancer promoting characteristic of adipose derived mesenchymal stem cells (ASCs). *Cell Biology International*. 2021; Sep 9.

Saeidinezhad, M., **Razban, V.**, Safizadeh, H., Ezzatabadipour, M. Effects of maternal consumption of morphine on rat skeletal system development. *BMC musculoskeletal disorders*. 2021; 22(1).

Asadi-Golshan, R., **Razban, V.**, Mirzaei, E., Rahmanian, A., Khajeh, S., Mostafavi-Pour, Z., Dehghani, F. Efficacy of dental pulp-derived stem cells conditioned medium loaded in collagen hydrogel in spinal cord injury in rats: Stereological evidence. *Journal of Chemical Neuroanatomy*. 2021; 116: 101978.

Dara, M., **Razban, V.**, Talebzadeh, M., Moradi, S., Dianatpour, M. Using CRISPR/Cas9 System to Knock out Exon 48 in DMD Gene. *Avicenna Journal of Medical Biotechnology*. 2021 Apr; 13(2): 54.

Dara, M., **Razban, V.**, Mazloomrezaei, M., Ranjbar, M., Nourigorji, M., Dianatpour M. Dystrophin gene editing by CRISPR/Cas9 system in human skeletal muscle cell line (HskMC). *Iranian Journal of Basic Medical Sciences*. 2021; 24(8):1153-1158

Dianatpour M, Smith E, Hashemi SB, Farazifard MA, Nezafat N, **Razban V**, Mani A. Identification of Homozygous Mutations for Hearing Loss. *Gene*. 2021 Jan 29:145464.

Taghadosi, Z., Zarifkar, A., **Razban, V.**, Owjford, M., Aligholi, H. Effect of chronically electric foot shock stress on spatial memory and hippocampal blood brain barrier permeability. *Behavioural Brain Research*. 2021; 410:113364

Heidari, Z., Tajbakhsh, A., Gheibi-Hayat, S.M., Moattari, A., **Razban, V.**, Berenjian, A., Savardashtaki, A., Negahdaripour, M. Probiotics/prebiotics in viral respiratory infections: implication for emerging pathogens. *Recent Patents on Biotechnology*. 2021.

Nammian P, Asadi-Yousefabad SL, Daneshi S, Sheikhha MH, Tabei SM, **Razban, V.***(Corresponding author) Comparative analysis of mouse bone marrow and adipose tissue mesenchymal stem cells for critical limb ischemia cell therapy. *Stem Cell Research & Therapy*. 2021 Dec;12(1):1-5.

Nammian, P., **Razban, V.***(Corresponding author) Tabei, SM., Asadi-Yousefabad, SL. MicroRNA-126: Dual Role in Angiogenesis Dependent Diseases. *Current pharmaceutical design*. 2020 26(38): 4883-4893.

Kavousipour S, Mokarram P, Barazesh M, Arabizadeh E, **Razban V**, Mostafavipour Z, Mohammadi S, Abolmaali SS. Effect of CD44 Aptamer on Snail Metastasis Factor and Aggressiveness of MDA-MB-231 Breast Cancer Cell Line. *Shiraz E-Medical Journal*. 2020 May 31;21(5).

Khajeh, S., Eslami, M., Nezafat, N., Mostafavi-Pour, Z., Negahdaripour M., Ghasemi, Y., **Razban, V.** Surveying FDA approved drugs as new potential inhibitors of N-cadherin protein: a virtual screening approach". 2020 Dec; 31(6): 2355-2369.

Khajeh, S., Bozorg-Ghalati, F., Zare, M., Panahi, Gh., **Razban, V.*** (Corresponding author) Cartilage tissue and therapeutic strategies for cartilage repair *Current Molecular Medicine*, Online ahead of print.

Zarei A, **Razban V**, Hosseini SE, Tabei SM. Creating cell and animal models of human disease by genome editing using CRISPR/Cas9. *The journal of gene medicine*. 2019 Apr;21(4):e3082.

Zarei A, **Razban V**, Tabei SM, Hosseini SE. CRISPR/Cas9 mediated gene knockout of Glb1 gene in mouse embryonic fibroblasts. *Gene Reports*. 2019 Sep 1;16:100419.

Naeem EM, Sajad D, Talaei-Khozani T, Khajeh S, Azarpira N, Alaei S, Tanideh N, Reza TM, **Razban, V.*** (Corresponding author) Decellularized liver transplant

could be recellularized in rat partial hepatectomy model. *Journal of Biomedical Materials Research Part A*. 2019 Nov;107(11):2576-88.

Fallahi J, Anvar Z, **Razban V**, Momtahan M, Namavar-Jahromi B, Fardaei M. Founder Effect of KHDC3L, p. M1V Mutation, on Iranian Patients with Recurrent Hydatidiform Moles. *Iranian Journal of Medical Sciences*. 2019 Jul 10.

Dara M, Dianatpour M, **Razban V**. Synthesis a New Viral Base Vector Carrying Single Guide RNA (sgRNA) and Green Florescent Protein (GFP). *Journal of Sciences, Islamic Republic of Iran*. 2019 Jul 1;30(3):205-9.

Fallahi J, **Razban V**, Momtahan M, Akbarzadeh-Jahromi M, Namavar-Jahromi B, Anvar Z, Fardaei M. A novel mutation in NLRP7 related to recurrent hydatidiform mole and reproductive failure. *International journal of fertility & sterility*. 2019 Jul;13(2):135.

Eslami M, Nezafat N, Khajeh S, Mostafavi-Pour Z, BagheriNovir S, Negahdaripour M, Ghasemi Y, **Razban, V.*** (Co-corresponding author) Deep analysis of N-cadherin/ADH-1 interaction: a computational survey. *Journal of Biomolecular Structure and Dynamics*. 2019 Jan 2;37(1):210-28.

Hassanpour A, Talaei-Khozani T, Kargar-Abarghouei E, **Razban V**, Vojdani Z. Decellularized human ovarian scaffold based on a sodium lauryl ester sulfate (SLES)-treated protocol, as a natural three-dimensional scaffold for construction of bioengineered ovaries. *Stem cell research & therapy*. 2018 Dec;9(1):1-3.

Asadi-Golshan R, **Razban V**, Mirzaei E, Rahmanian A, Khajeh S, Mostafavi-Pour Z, Dehghani F. Sensory and motor behavior evidences supporting the usefulness of conditioned medium from dental pulp-derived stem cells in spinal cord injury in rats. *Asian spine journal*. 2018 Oct;12(5):785.

Khajeh S, **Razban V**, Talaei-Khozani T, Soleimani M, Asadi-Golshan R, Dehghani F, Ramezani A, Mostafavi-Pour Z. Enhanced chondrogenic differentiation of dental pulp-derived mesenchymal stem cells in 3D pellet culture system: effect of mimicking hypoxia. *Biologia*. 2018 Jul 1;73(7):715-26.

Khajeh, S.,Mostafavipour, Z.,Alaee, S.,**Razban, V.,*** (Corresponding author) “Tube formation potential of BMSCs and USSCs in response to HIF1-a overexpression under hypoxia”, *Cytology and Genetics*; In press.

Sani, F.,Mehdipour, F.,Khozani, T. T., Sani, M., **Razban, V.*** (Corresponding author) “Fabrication of platelet rich plasma/Silica scaffolds for bone tissue engineering” *Bioinspired, Biomimetic and Nanobiomaterials*; In press.

Razban, V., Hosseinipour, M., Mahmoodi, M., Hajizadeh, MR., Mohammadpour, H., Farsi, G., Khoshdel, AR. (2017). "The comparative assessment of human and fetal bovine serum effects on mesenchymal stem cells under oxidative stress" *Journal of Advanced Medical Sciences and Applied Technologies* 3(2) page:55-60

Mokarram, P., Alizadeh, J., **Razban, V.**, Barazeh, M., Solomon, C., Kavousipour, S. (2017). "Interconnection of Estrogen/Testosterone Metabolism and Mevalonate Pathway in Breast and Prostate Cancers." *Current molecular pharmacology* 10(2) page:1.

Bortolotti, F., Ukovich, L., **Razban, V.**, Martinelli, V., Ruozi, G., Pelos, B., Dore, F., Giacca, M., Zacchigna S. (2015). "In vivo therapeutic potential of mesenchymal stromal cells depends on the source and the isolation procedure." *Stem cell reports* 4(3) page: 332-339.

Razban, V., Khajeh, S., Lotfi, A. S., Mohsenifar, A., Soleimani, M., Khoshdel, A., & Hashemi, E. (2014). Engineered heparan sulfate-collagen IV surfaces improve human mesenchymal stem cells differentiation to functional hepatocyte-like cells. *Journal of Biomaterials and Tissue Engineering*, 4(10) page: 811-822.

Khajeh, S., Lotfi, A. S., Mohsenifar, A., **Razban, V.** (2013) "A hepatic differentiation matrix establishment for improving mesenchymal stem cells attachment and proliferation" *Biotechnology, TarbiatModares University* 4(1) page: 1-14.

Razban, V., Khajeh, S., Lotfi, A. S., Soleimani, M., Ahmadi, H., Massumi, M. (2013) "A gene transfer system establishment coexpressing GFP and HIF-1 α in mesenchymal stem cells based on lenti viral vectors" *Biotechnology, TarbiatModares University* 3(2) page: 51-66.

Lotfi, A. S., Khoshdel, A., Soleimani, M., Daliri, M., **Razban, V.**, Adibi, B. (2012) "High yield generation of hepatocyte like cells from adipose derived stem cells." *Scientific Research and Essays* 7(10) page: 1141-1147.

Razban, V., Lotfi, A. S., Soleimani, M., Ahmadi, H., Massumi, M., Khajeh, S., Ghaedi, M., Arjmand, S., Najavand, S., Khoshdel, A. (2012) "HIF-1 α overexpression induces angiogenesis in mesenchymal stem cells." *BioResearch open access* 1(4), page: 174-183.

Hashemzadeh, Z., KarimiTorshizi, A., Rahimi, Sh., **Razban, V.**, ZahraeiSalehi, T. (2010) "Prevention of Salmonella colonization in neonatal broiler chicks by using different routes of probiotic administration in hatchery evaluated by

culture and PCR techniques." Journal of Agricultural Science and Technology 12, page: 425-432.

Book:

AyatollahiMousavi S.A., Mobasher M., Razban S., **Razban V.**Laboratory animals in medicine, No. of pages: 168, (2007)

Published abstracts:

Khajeh, S., **Razban, V.**, Mostafavi-Pour, Z. "Reduced hypertrophy of chondrogenic differentiated dental pulp stem cells using cobalt chloride" Avicenna Journal of Medical Biochemistry, 2020; Volume 8 (Suppl A): S1-S596

Khorsand, M., **Razban, V.**, Mostafavi-Pour, Z. "Reducing dose of docetaxel using a novel small molecule to achieve efficient inhibition of cancer cell growth" Avicenna Journal of Medical Biochemistry, 2020; Volume 8 (Suppl A): S1- S596

Zarei A., **Razban V.**, Faghihi MA., Tabei SM. (2018) "CRISPR/Cas9 mediated gene knockout of Glb1 gene" Cell journal, 20 (S1) Page: P-361

Bortolotti, F., Ukovich, L., **Razban, V.**, Martinelli, V., Ruozi, G., Dore, F., Giacca, F., Zacchigna, S. (2013) "Efficacy of Various Populations of Murine Mesenchymal Stem Cells for the Treatment of Critical Limb Ischemia" Molecular therapy, 21(S1), Page: S141–S142

Razban, V., Lotfi, S. A., Soleimani, M., Ahamdi, H., Massumi, M., Khajeh, S. (2011) "HIF-1alpha overexpression improves mesenchymal stem cells angiogenesis potential." Clinical Biochemistry, 44 (13), Page: S306.

Khajeh, S., Lotfi, S. A., Mohsenifar, A., **Razban, V.**, Soleimani, M. (2011) "Heparan sulfate promotes differentiation of bone marrow mesenchymal stem cell-derived hepatocyte-like cells." Clinical Biochemistry, 44 (13), Page: S299.

Khajeh, S., Lotfi, S. A., Mohsenifar, A., **Razban, V.**, Soleimani, M. (2011) "Improved hepatic differentiation of mesenchymal stem cell by enhancing cell attachment and HGF receptor expression via a 2-dimensional matrix." Clinical Biochemistry, 44 (13), Page: S299-S300.

Khoshdel, A.R., Lotfi, S.A., Soleimani, M., Daliri, M., Adibi, B., **Razban, V.**, Mota, A., Najavand, S. (2011) "Adipose derived stem cells isolation and their

differentiation in to hepatocyte like cell for tissue repair.” Clinical Biochemistry, 44 (13), Page: S157.

Conference presentation:

Invited Speaker at "9th Yazd International Virtual Congress and Student Award in Reproductive Medicine". 2021 May 13-15.

1st national congress on animal models in experimental medical researches, 2016 (poster, Shiraz, Iran)

1st Shiraz Cell Therapy and Regenerative Medicine symposium, 2015 (Poster, Shiraz, Iran)

American society of Gene and Cell Therapy Annual Meeting, 2013 (poster, Salt lake city, Utah, USA)

1st International conference/workshop on stem cell research and applications, 2011 (oral, Kayseri, Turkey)

4th international congress of Biochemistry and Molecular Biology, 2011 (Oral and Poster, Mashad, Iran)

2nd medical genetic congress, 2011 (3 Oral, Tehran, Iran)

National proteomics congress, 2010 (poster, Shiraz, Iran)

4. SCIENTIFIC ACTIVITIES AND JOB EXPERIENCE:

Scientific organization:

Vice Chancellor of Graduate School Shiraz University of Medical Sciences (2018-2020)

Head of Molecular Medicine department, Shiraz University of Medical Sciences (2017-now)

Scientific secretary of clinical trial design and cell therapy symposium, Shiraz University of Medical Sciences (2016)

Scientific secretary of new liver and pancreas cell therapy, Shiraz University of Medical Sciences (2016)

Executive secretary of 1st Shiraz Cell Therapy and Regenerative Medicine symposium, Shiraz University of Medical Sciences(2015)

Manager of educational affairs, Institute for regenerative medicine, Shiraz University of Medical Sciences(2015-now)

Vice chancellor of university for research and technology, Bam University of Medical Sciences (2013, 2014)

Founder and director of health Incubator center, Bam University of Medical Sciences (2013, 2014)

Establishing of stem cell culture room and hypoxic cell culture at National Institute of Genetic engineering and Biotechnology (2011)

Establishing of biotechnology journal clubs at TarbiatModares University (2010)

Main organizer and director of Lentiviral gene transfer to mesenchymal stem cells workshop, National Institute of Genetic engineering and Biotechnology(2010)

Contribution in setting up a peptide synthesizer apparatus and solid phase peptide synthesis workshop for the first time in the country, Synthesis of Azacytidine amino acid and Gonazon, National Institute of Genetic engineering and Biotechnology (2010)

5. WORKSHOPS:

Human and mouse embryonic stem cell culture and mouse embryonic stem cell isolation, Yazd University of Medical Sciences (2016)

Real time PCR data analysis, Shiraz University of Medical University (2016)

SPSS, Shiraz University of Medical University(2016)

Primer design, Kerman University of Medical Sciences and Shiraz University of Medical University(2014, 2016)

Medical education, Shiraz University of Medical University (2015)

Quality control, Shiraz University of Medical University(2015)

SPL in effective communication, Shiraz University of Medical University (2015)

Electronic learning, Shiraz University of Medical University(2014)

Health Incubators, Mashhad University of Medical Sciences, Mashhad, Iran (2014)

Method of research workshop, Shiraz University of Medical University (2014)

Science metrics, Ministry of Health and Medical Education, Tehran, Iran (2013)

Health technology challenges, Ministry of Health and Medical Education, Tehran, Iran (2013)

Webometrics, Bam University of Medical University (2013)

Genomic engineering and nanobiotechnology, National Institute of Genetic Engineering and Biotechnolgy (2010)

Principles of research in biotechnology workshop, Tehran, Iran (2009)