

In the Name of God

Curriculum Vitae

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RESEARCH INTERESTS

- Dermal and Epidermal Tissue Engineering
- Scar Healing
- Gene transfer and Recombinant Protein Expression in Prokaryotic and Eukaryotic cells
- Stem cell Therapy
- Transient Gene Therapy

EDUCATIONAL HISTORY

MSc: Anatomical Sciences (Tabriz University of Medical Sciences, Faculty of Medicine) (2008-2010)

MSc Thesis: *The Study of the Effect of Melatonin on Growth and Development of Mouse Blastocysts at Pre-Implantation Stage*

PhD: Tissue Engineering (Iran University of Medical Sciences, Faculty of Advanced Technologies in Medicine) (2010-2016)

PhD Thesis: *A Dermal Construct Consisting of Mesenchymal Stem Cells Over-Expressing Growth Factor TGF- β 3: Fabrication and in vivo Testing on Animal Model of excisional Skin Wound*

Publications

Journal Papers

- 1) **Ahmad Mehdipour**, Ayyub Ebrahimi, Mohammad-Reza Shiri-Shahsavar, Jafar Soleimani-Rad, Leila Roshangar, Mohammad Samiei, Abbas Ebrahimi-Kalan. The potentials of umbilical cord-derived mesenchymal stem cells in the treatment of multiple sclerosis. *Reviews in the neurosciences*, 2019, (ahead of print).
- 2) Ayyub Ebrahimi, Ezgi Keske, **Ahmad Mehdipour**, Abbas Ebrahimi-Kalan, Meysam Ghorbani. Somatic cell reprogramming as a tool for neurodegenerative diseases. *Biomedicine & Pharmacotherapy*, 2019, 112; 108663.
- 3) Balal Brazvan, Abbas Ebrahimi-Kalan, Kobra Velaei, **Ahmad Mehdipour**, Ayyub Ebrahimi, Mohammad Ghorbani, Omid Cheraghi, Hojjatollah Nozad Charoudeh. Telomerase activity and telomere on stem progeny senescence. *Biomedicine & Pharmacotherapy*, 2018, 102; p9-17.
- 4) Forough Alemi Serej, Mohammad Pourhassan-Moghaddam, Mohammad Ebrahimi Kalan, **Ahmad Mehdipour**, Zeynab Aliyari Serej, Abbas Ebrahimi-Kalan. Targeting the PI3K/Akt/mTOR signaling pathway: applications of nanotechnology. *Crescent Journal of Medical and Biological Sciences*, 2018, 5;1, p7-13.
- 5) Zeynab Aliyari Serej, Abbas Ebrahimi Kalan, **Ahmad Mehdipour**, Hojjatollah Nozad Charoudeh. Regulation and roles of CD26/DPPIV in hematopoiesis and diseases. *Biomedicine & Pharmacotherapy*. 2017, 91; p88-94.
- 6) N Mahmoudi, N Eslahi, **A Mehdipour**, M Mohammadi, M Akbari, A Samadikuchaksaraei, A Simchi. Temporary skin grafts based on hybrid graphene oxide-natural biopolymer nanofibers as effective wound healing substitutes: pre-clinical and pathological studies in animal models. *Journal of Materials Science: Materials in Medicine*. 2017, 28;5, p73.
- 7) Ali Samadikuchaksaraei, **Ahmad Mehdipour**, Mehryar Habibi Roudkenar, Javad Verdi, Mohammad Taghi Joghataei, Kamran As' adi, Fatemeh Amiri, Mozghan Dehghan Harati, Mazaher Gholipourmalekabadi, Nushin Karkuki Osguei. A Dermal Equivalent Engineered with TGF- β 3 Expressing Bone Marrow Stromal Cells and Amniotic Membrane: Cosmetic Healing of Full-Thickness Skin Wounds in Rats. *Artificial organs*, 2016,40;12, E266-E279.
- 8) Kouhi M, Shamanian M, Fathi M, Samadikuchaksaraei A, **Mehdipour A**. Synthesis, Characterization, In Vitro Bioactivity and Biocompatibility Evaluation of Hydroxyapatite/Bredigite (Ca7MgSi4O16) Composite Nanoparticles. *JOM*, 2016 Feb 01. DOI: 10.1007/s11837-016-1815-3.
- 9) Harati MD, Amiri F, Jaleh F, **Mehdipour A**, Harati MD, Molaee S, Bahadori M, Shokrgozar MA, Jalili MA, Roudkenar MH. Targeting delivery of lipocalin 2-engineered mesenchymal stem cells to colon cancer in order to inhibit liver metastasis in nude mice. *Tumour Biol*. 2015 Aug;36(8):6011-8. doi: 10.1007/s13277-015-3277-6. Epub 2015 Mar 5.
- 10) Gholipourmalekabadi M, Mozafari M, Bandehpour M, Salehi M, Sameni M, Caicedo HH, **Mehdipour A**, Ghasemi H, Samadikuchaksaraei A, Ghanbarian H. Optimization of nanofibrous silk fibroin scaffolds as a delivery system for bone marrow adherent cells. *Biotechnology and Applied Biochemistry*, 2014 Dec 4. DOI: 10.1002/bab.1324.

- 11) Madadi Dargahi S, Eftekharzadeh M, **Mehdipour A**, Soleimani M, Mehdizadeh M. The effect of bone marrow mesenchymal stem cells on memory and neuronal cells number in the hippocampus by Trimethyltin chloride. *Journal of Gorgan University of Medical Sciences*.
- 12) Niknafs B, **Mehdipour A**, Mohammadi Roshandeh A. Melatonin improves development of early mouse embryos impaired by actinomycin-D and TNF- α . *Iran J Reprod Med Vol. 12. No. 12. pp: 799-804, December 2014*.
- 13) Amiri F, Halabian R, Dehgan Harati M, Bahadori M, **Mehdipour A**, Mohammadi Roushandeh A, Habibi Roudkenar M. Positive selection of Wharton's jelly-derived CD105+ cells by MACS technique and their subsequent cultivation under suspension culture condition: A simple, versatile culturing method to enhance the multipotentiality of mesenchymal stem cells. *Hematology, 2014 Aug 12. [Epub ahead of print]*.
- 14) Mohammad Morad Farajollahi, Sepideh Hamzehlou, **Ahmad Mehdipour**, Ali Samadikuchaksaraei. Recombinant Proteins: Hopes for Tissue Engineering. *BioImpacts, 2012, 2(3), 123-125*.
- 15) Hossein Banazadeh, Abbas Delazar, Mehryar Habibi Roudkenar, Mohammad Rahmati Yamchi, Behnaz Sadeghzadeh Oscoui, **Ahmad Mehdipour**, Jafar Soleimani Rad, Amaneh Mohammadi Roushandeh. Effects of knotweed or polygonum aviculare herbal extract on proliferation of HeLa cell line. *Medical Journal of Mashad University of Medical Sciences, Vol 54, No. 4, 2011*.
- 16) Habibi Roudkenar M, Mohammadi Roushandeh A, Delazar A, Halabian R, Soleimani Rad J, **Mehdipour A**, Bagheri M, Jahanian-Najafabadi A. Effect of polygonum aviculare herbal extract on proliferation and apoptotic gene expression of MCF-7. *DARU Vol 19, No. 5, 2011*.
- 17) Amaneh Mohammadi Roushandeh, Raheleh Halabian, Jafar Soleimani Rad, Behnaz Sadeghzadeh Oskouei, **Ahmad Mehdipour**, Mohammad Reza Nourani, Mehryar Habibi Roudkenar. High Frequency Electromagnetic Field Induces Lipocalin 2 Expression in Mouse Liver. *Iranian Journal of Basic Medical Sciences Vol. 13, No. 3, Summer 2010, 139-145*.
- 18) Amaneh Mohammadi Roushandeh, Hasan Haji Hosseini, Behrouz Niknafs, Raheleh Halabian, **Ahmad Mehdipour**, Mehryar Habibi Roudkenar. Effects of Leukemia Inhibitory Factor on gp130 Expression and Rate of Metaphase II Development during in vitro Maturation of Mouse oocyte. *Iranian Biomedical Journal 14 (3): 2010, 103-107*.

Abstracts in Congress

- 1) **Mehdipour A**, Samadikuchaksaraei A, Habibi Roudkenar M, Joghatai MT, Verdi J, Asadi K. Scar reduction by transient gene therapy of excisional wound model on rat skin. The Second Iranian Annual Congress on Progress in Tissue Engineering and Regenerative Medicine, November 2015, Tehran, Iran.
- 2) Ebrahimi-kalan A, **Mehdipour A**, Aliari serej Z. Hypothalamic neural regeneration: A challenge in quality of life and survival. The Second Iranian Annual Congress on Progress in Tissue Engineering and Regenerative Medicine, November 2015, Tehran, Iran.

- 3) Niknafs B, **Mehdipour A**, Mohammadi Roshandeh A. Melatonin improves development of early mouse embryos impaired by actinomycine-D and TNF- α . 20th National Congress on Infertility and Reproduction, June 2014, Isfahan, Iran.
- 4) **Ahmad Mehdipour**, Mehryar Habibi Roudkenar, Vadoud Malekzadeh, Raheleh Halabian, Bahareh Bahmani, Ali Samadikuchaksaraei. Engineering of transforming growth factor beta 3-producing mesenchymal stem cells for tissue engineering applications. The first Iranian Annual Congress on Progress in Tissue Engineering and Regenerative Medicine, May 2013, Tehran, Iran.
- 5) Vadoud Malikzadeh, Ahmad Gharehbaghian, **Ahmad Mehdipour**, Mehryar Habibi Roudkenar. Co-culture of human bone marrow derived mesenchymal stem cells with k562 cells against cytarabine treatment. 5th International congress of biochemistry and molecular biology, April 2013, Yazd, Iran.
- 6) Sedigheh Molaee, Fatemeh Nasiri, Raheleh Halabian, Bahareh Bahmani, Mahshid Mohammadipour, **Ahmad Mehdipour**, Mehryar Habibi Roudkenar. Design of a highly specific autophagy modulator, ATG7- expressing plasmid vector as a potential therapeutic target for various diseases. 5th International congress of biochemistry and molecular biology, April 2013, Yazd, Iran.
- 7) Ebrahimi-kalan A, Soleimani Rad J, Roshangar L, Khaki A.A, Mohammadnejad D, **Mehdipour A**. Ginsenoside effects on DNA damage, and histopathological changes in testes of mice exposed to busulfan. Royan International Twin Congress, September 2011, Tehran, Iran.
- 8) Ebrahimi A, **Mehdipour A**, Maleki N, Daneshvar M. Description of various stages of spermatogenesis cycle and its use in analysis of the cycle of the seminiferous epithelium and germ cell. 15th Congress of Iranian Society for Reproductive Medicine, winter 2009, Tehran, Iran.
- 9) Raheleh Halabian, Amaneh Mohammadi Roushandeh, Majid Ebrahimi, Mohammad Reza Nourani, Monireh Daneshvar, **Ahmad Mehdipour**, Mehryar Roudkenar. Cold and heat stresses induce Lcn2 in heart, liver and kidney of mouse. 10th Iranian congress of Biochemistry & 3rd International Congress of Biochemistry and Molecular Biology, November 2009, Tehran, Iran.
- 10) Mohammadi Roshandeh A, Habibi Roudkenar M, Delazar A, Halabian R, Sadeghzadeh Oskuei B, Soleimani Rad J, Ebrahimi M, **Mehdipour A**. The effect of polygonum aviculare extract on proliferation and apoptosis of MCF-7 cells. National Congress of Anatomical Sciences, May 2010, Hamadan, Iran.

Gene Submission

- 1) **Mehdipour A**, Habibi Roudkenar, M., Samadikuchaksaraei, A., Halabian, R. and Bahmani, B. Rattus Norvegicus Transforming Growth Factor-beta 3 (TGF-beta3) synthetic construct protein gene in pcDNA3.1 vector. NCBI GeneBank (ACCESSION: AGD81832.1 or JX974603.1).

Patents

- 1) Ali Samadikuchaksaraei, **Ahmad Mehdipour**. Cosmetic appearance improving wound healing construct through the controlled release of TGF-beta3. *Iranian Industrial Property General Office*; Declaration No: 139450140003005039.