May 2020

CURRICULUM VITAE

Seyed Mohammad Amin Haramshahi

Department of Tissue Engineering and Regenerative Medicine, Iran University of Medical Sciences, Tehran 144961-4535, Iran

Mobile Tel: +98 93 7343 4056
Home Tel: +98 26 3321 8025

Email: sma.haramshahi@gmail.com (Preferred)
haramshahi.m@tak.iums.ac.ir

Personal Details:

Gender: Male
Date of Birth: January 1986
Birthplace: Shoush, Khouzestan, Iran

Education:

February 2014−2020: PhD Candidate of Tissue Engineering

Department of Tissue Engineering and Regenerative Medicine, Iran University of Medical Sciences, Tehran, Iran

Title of Thesis:

Induction of tenogenic differentiation in human adipose tissue derived mesenchymal stem cells using surface topography for application in tendon tissue engineering

2008−2011: MSc in Developmental Biology

Department of Biology, Faculty of Science, Razi University of Kermanshah, Iran

Title of Thesis:

Murine bone marrow mesenchymal stem cell differentiation into the neural lineage by staurosporine and morphine

2004−2008: BSc in General Biology

Department of Biology, Faculty of Science, Razi University of Kermanshah, Iran

Publication and presentations:

Mohammad Amin Haramshahi, Somaye Yaghoobi, Mehri Azadbakht: The effect of morphine on mouse bone marrow mesenchymal stem cells. **Iranian congress on biology and application of stem cells. MASHHAD 2011.**

Somaye Yaghoobi, **Mohammad Amin Haramshahi**, Mehri Azadbakht: The effect of morphine on neurite outgrowth in mouse bone marrow mesenchymal stem cells. **Iranian congress on biology and application of stem cells. MASHHAD 2011.**

Mohammad Amin Haramshahi, Mehri Azadbakht, Mousa Kehtari: Effect of different concentration of staurosporine on neurite outgrowth in mouse bone marrow mesenchymal stem cells. **Royan international twin congress of reproductive biomedicine and stem cell. TEHRAN 2011.**

Mohammad Amin Haramshahi, Mehri Azadbakht, Mousa Kehtari, Asad Veisi-Raygani: Mouse bone marrow mesenchymal stem cell (mBMSCs) differentiation into neural cells by

staurosporine together with morphine. **Iranian congress of anatomical science. RASHT 2012.**

Zhaleh H., Azadbakht M., Bidmeshki Pour A., **Haramshahi S.M.A.**, Kehtari M. Effects of different concentrations of morphine on staurosporine-induced neurite outgrowth in PC12 cells. **Journal of Iranian Anatomical Sciences** 9(37): 318-328, **2012**.

Asrin Babahajian, Arash Sarveazad, Fereshteh Golab, Gelareh Vahabzadeh, Akram Alizadeh, Homa Rasoolijazi, Naser Amini, Maedeh Entezari, Mansoureh Soleimani*, Majid Katebi* and **Seyed Mohammad Amin Haramshahi.** Neuroprotective Effects of Trolox, Human Chorionic Gonadotropin, and Carnosic Acid on Hippocampal Neurodegeneration After Ischemiareperfusion Injury. **Current Stem Cell Research & Therapy.** Pages 177 - 183 (7) **2018**

Farshadi M, Johari B, Ezadyar EE, Gholipourmalekabadi M, Azami M, Madanchi H, **Haramshahi SMA**, Yari A, Karimizade A, Nekouian R, Samadikuchaksaraei A. Nanocomposite scaffold seeded with mesenchymal stem cells for bone repair. **Cell Biol Int. 2019**

Simorgh S., Alizadeh R., Eftekharzadeh M., **Haramshahi SMA**., Milan PB., Doshmanziari M., Ramezanpour F., Gholipourmalekabadi M., Seifi M., Moradi F**.** Olfactory mucosa stem cells: An available candidate for the treatment of the Parkinson's disease. **J Cell Physiol. 2019**

Parisa Zeaiean Firouzabadi, Hajar Ghanbari, Nafiseh Mahmoudi, **Seyed Mohammad Amin Haramshahi**, Jafar Javadpour. Synthesis of Nano-Bentonite-PVA-BC Nanocomposite by Electrospinning for Wound Healing Applications. **Physica Status Solidi (a) 2020**

Seyed Mohammad Amin Haramshahi, Shahin Bonakdar, Mehdi Moghtadaei, Khorshid Kamguyan, Esben Thormann, Sara Tanbakooei, Sara Simorgh, Peiman Brouki-Milan, Naser Amini, Noorahmad Latifi, Mohammad Taghi Joghataei, Ali Samadikuchaksaraei, Majid Katebi, Mansoureh Soleimani. Tenocyte-imprinted Substrate: A Topography-Based Inducer for Tenogenic Differentiation in Adipose Tissue-Derived Mesenchymal Stem Cells **Biomed Mater. 2020** 16;15(3):035014.

Sara Tanbakooie, **Seyed Mohammad Amin Haramshahi**, Mahmood Barati, Majid Katebi, Fereshteh Golab, Ghazal Shetbi, Narges Niknam. Stimulation of ovarian stem cells and differentiation to primary oocyte by follicle stimulating hormone, basic fibroblast growth factor and neurotrophin. **Journal of reproduction and infertility (Under review)**

Kamguyan, Khorshid, Zajforoushan Moghaddam, Saeed, Nazbar, Abolfazl, **Haramshahi, Seyed Mohammad Amin**, Taheri, Shiva, Bonakdar, Shahin, Thormann, Esben Cell-Imprinted Substrates: In Search of Nanotopographical Fingerprints that Guide Stem Cell Differentiation. **Nanoscale 2019**

Eivazzadeh-Keihan, Reza ; Khalili, Farzane ; Khosropour, Nastaran ; Aghamirza Moghim Aliabadi, Hooman ; Maleki, Ali; Madanchi, Hamid ; Hamblin, Michael; Haramshahi, Seyed Mohammad Amin. Hybrid bionanocomposite containing magnesium hydroxide nanoparticles

embedded in a carboxymethyl cellulose hydrogel plus silk fibroin for possible use as a scaffold for wound dressing applications. **ACS applied biomaterials (Under review)**

Books:
Molecular cascades in Tissue regeneration (ISBN:978-622-276-323-7)

Teaching experience:

2013-2014 academic year: Lecturer of Embryology, Department of Midwifery, Islamic Azad University of Dezfoul, Iran

2015: lecturer for first national student Olympiad of stem cell and regenerative medicine; Sari (20 hours)

2018: lecturer for 3rd national student Olympiad of stem cell and regenerative medicine; Karaj (30 hours)

2019: lecturer for 4th national student Olympiad of stem cell and regenerative medicine; Babol (10 hours)

2019: lecturer for 4th national student Olympiad of stem cell and regenerative medicine; Tehran (4 hours)

Technical Skills:

- Primary cells, including stem cells, isolation from human and animal tissues
- Primary cells and cell lines culture
- Optical and fluorescent microscopy
- Electron microscopy
- Immunocyto- and immunohisto-chemistry
- Flowcytometry
- Conventional and real-time PCR and RT-PCR
- Western blotting
- Biocompatibility tests including MTT Assay
- Freeze-drying
- Tissue decellularization

Bioinformatics:

- Biological database search
- Pair wise and Multiple sequence alignment
- Protein structure prediction

- Primer designing

Workshops:

28/04/2016: Clean Room Operation, Afagh San'at Company, Tehran, Iran

18/12/2011: Scientific writing, Kermanshah University of Technology, Kermanshah, Iran

20/12/2011: Elearning, Kermanshah University of Technology, Kermanshah, Iran

February 2019: Entrepreneurship and wealth creation, Iran university of medical sciences, Tehran, Iran

Administrative duties:

Executive member of second Iranian Congress on Progress in Tissue Engineering and Regenerative Medicine; 2015

Secretary of Student committee of third Iranian Congress on Progress in Tissue Engineering and Regenerative Medicine; 2016

Executive committee Member of first national Student Olympiad of Stem Cell and Regenerative Medicine; 2016

Executive committee member of second national Student Olympiad of Stem Cell and Regenerative Medicine; 2017

Secretary of the Student Committee of 4^{th} of Iranian Congress on Progress in Tissue Engineering and Regenerative Medicine; 2018

Research Interests:

Stem cell biology

Cellular differentiation and transdifferentiation

Cell signaling

Surface topography

Mechanical induction of stem-cell differentiation and Transdifferentiation

Tissue engineering and regeneration in Musculoskeletal system

Tissue engineering and regeneration in Nervous system

References:

Dr. Ali Samadikouchaksaraei

Vice dean of academic affairs

Faculty of advanced technologies in medicine

Head department of tissue ngineering and regenerative medicine

Iran University of medical sciences

Hemmat Highway
Post code: 144961-4535
Tehran, Iran
Tel: 02186704714
Mobile: 09125577669

Dr. Mansoureh Soleimani
Vice dean of cellular and molecular research center
Iran University of medical sciences
Hemmat Highway,
Post code: 144961-4535
Tehran, Iran
Tel: 021-88622578
Mobile: 09194043522

Dr. Mohammad Taghi Joghataei
Dean of faculty of advanced technologies in medicine
Iran University of medical sciences
Hemmat Highway
Post code: 144961-4535
Tehran, Iran
Tel: 021-88622578
Mobile: 09121114191