

CURRICULUM-VITAE

Personal details:

Surname: Ebrahimi Barough

First name: Somayeh

Date of birth: 28.12.1982

Place of birth: Ardabil, Iran

Nationality: Iranian

Gender: Female

Marital status: married (1 child)



Academic Rank: Associate Professor in Tehran university of Medical Sciences (from 2014 up to now)

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Educational Background

Degree	Major	University	Date	Average(from20)
B.Sc	Biology	Mohaghegh Ardebili (Ardebil, Iran)	2002-2005	18.25
M.Sc	Cell and Developmental Biology	Kharazmi uni. (Tehran, Iran)	2006-2008	18.75
Ph.D	Cell and Developmental Biology	Kharazmi uni. (Tehran, Iran)	2008-2013	19.39

- **M. Sc. Thesis:** Effect honey bee venom and RA on neural differentiation P19 teratocarcinoma cells. supervisor: Prof.Homa Mohseni Kouchesfahani
- **PhD Dissertation:** Differentiation efficiency of endometrial mesenchymal stem cells into oligodendrocytes in vitro using overexpression miRNA219 and miRNA338. supervisor: Prof. Homa Mohseni Kouchesfahani

Employment history:

- faculty member (associate professor) in Tissue Engineering and Applied Cell Sciences Department, Tehran University of medical sciences (TUMS), 2014 until Now.
- Postdoctoral research associate , Imam Khomeini Hospital, TUMS, Tehran, Iran 2013-2015

Course and workshop lecturer:

Ph.D Courses:

- Tissue engineering, TUMS, Tehran, Iran, 2014 until now
- Cell signaling, TUMS, Tehran, Iran, 2016 until now
- Advanced techniques in cellular and molecular field. TUMS, Tehran, Iran, 2015 until now
- Cell therapy and cell banking. TUMS, Tehran, Iran, 2015 until now
- The basic of stem cells. TUMS, Tehran, Iran, 2016

- Stem cells engineering, Science and Research Branch, Islamic Azad University, Tehran 2016-2018
- Regenerative medicine, TUMS, Tehran, Iran, 2014-2015
- Cell culture, TUMS, Tehran, Iran, 2013 until now
- Biology, Kharazmi University, Tehran, 2010-2011
- Animal biology (lab), Azad university of karaj, 2009-2011
- Organogenesis, Kharazmi University, Tehran, 2009-2010
- Developmental biology, Kharazmi University, Tehran, 2009-2010

Workshops:

1. Immunocytochemistry workshop, Department of Tissue Engineering, School of Advanced Technologies in Medicine, Tehran University of Medical Sciences, Tehran, from 2012 up to now.
2. 2D and 3D cell culture workshop, Department of Tissue Engineering, School of Advanced Technologies in Medicine, Tehran University of Medical Sciences, Tehran, from 2012 up to now.
3. Two Dimensional versus Three Dimensional Cell Culture Methods “Short course, Department of Tissue Engineering. School of Advanced Technologies in Medicine, Tehran University of Medical Sciences, Tehran, 2018.
4. Advances in Tissue Engineering "international short course, Department of Tissue Engineering, School of Advanced Technologies in Medicine, Tehran University of Medical Sciences, Tehran, 2014
5. Tissue engineering in dentistry, short course. Department of Tissue Engineering, School of Advanced Technologies in Medicine, Tehran University of Medical Sciences, Tehran, 2017

Honors and achievements:

- The second grade in the Ph.D entrance exam, 2008
- The first grade in Ph.D. among total biology students in Faculty of Biological Science, Kharazmi University of Tehran, 2013
- One Year Salary Grant for Post-Doctoral Research, 2014, Iran national science foundation (INSF), Tehran, Iran
- Award of a grant in the Research Excellence Program USC – IRAN. Spain. 2017
- Educated Researcher award from national institute for medical research development (NIMAD), Tehran, Iran, 2018

Research Experience:

Postdoctoral Fellow, Imam Khomeini Hospital, TUMS, Tehran, Iran 2013-2015

Title: Neural tissue engineering using mesenchymal stem cells differentiation into neurons and gelial cells on nanofibrous scaffolds for repair and regeneration spinal cord injury in Sprague-Dawley Rats. Supervisor: Prof. Jafar Ai

Publications:

Please find my latest papers in these links:

<https://scholar.google.com/citations?user=Pgl1ZaUAAAAJ&hl=en>

https://isid.research.ac.ir/Somayeh_EbrahimiBarough

1. Jafar Ai, Ali Farzin, Sina Zamiri, Mahmoudreza Hadjighassem, Somayeh Ebrahimi-Barough, Armin Ai, Sanam Mohandesnezhad, Ahmad Karampour, Morteza Sagharjoghi Farahani, Arash Goodarzi. Repair of injured spinal cord using platelet-rich plasma-and endometrial stem cells-loaded chitosan scaffolds. International Journal of Polymeric Materials and Polymeric Biomaterials.2020 june. doi: 10.1080/00914037.2020.1772257
2. Mozaffar Mahmoodi, Shirin Ferdowsi, Somayeh Ebrahimi Barough, Shaghayegh Kamian, Jafar Ai. Tissue engineering applications in breast cancer. Journal of Medical Engineering & Technology.published online 2020 may 13. Doi:10.1080/03091902.2020.1757771
3. Aliakbar Yousefi-Ahmadipour, Somayeh Ebrahimi-Barough, Seddigheh Niknia, Amir Allahverdi, Afsaneh Mirzahosseini-Pourranjbar, Mahnaz Tashakori, Shima Khajouee Ravari, Fatemeh Asadi, Rahim Heidari Barchi Nezhad, Nasrin Lotfibakhshaiesh, Mohammad Reza Mirzaei. Therapeutic effects of combination of platelet lysate and sulfasalazine administration in TNBS-induced colitis in rat. Biomedicine & Pharmacotherapy. 2020 may; 125, 109949.
4. Narges Mahmoodi, Jafar Ai, Somayeh Ebrahimi-Barough, Zahra Hassannejad, Elham Hasanzadeh, Arefeh Basiri, Alexander R Vaccaro, Vafa Rahimi-Movaghar. Microtubule stabilizer epothilone B as a motor neuron differentiation agent for human endometrial stem cells. 2020 may. Cell Biology International 44 (5), 1168-1183
5. Shabnam Shahi, Saeed Karbasi, Tahmineh Ahmadi, Farid Naeimi, Vahabodin Goodarzi, Somayeh Ebrahimi-Barough. Evaluation of physical, mechanical and biological properties of β -tri-calcium phosphate/Poly-3-hydroxybutyrate nano composite scaffold for bone tissue engineering application. Materials Technology,2020 april; 1-13.

6. Hossein Kargar Jahromi, Ali Farzin, Elham Hasanzadeh, Somayeh Ebrahimi Barough, Narges Mahmoodi, Mohammad Reza H Najafabadi, Morteza Sagharjoghi Farahani, Korosh Mansoori, Sadegh Shirian, Jafar Ai. Enhanced sciatic nerve regeneration by poly-L-lactic acid/multi-wall carbon nanotube neural guidance conduit containing Schwann cells and curcumin encapsulated chitosan nanoparticles in rat. *Materials Science and Engineering: C*, Volume 109, April 2020, 110564.
7. Pedram Sotoudeh Bagha, Mehrdad Khakbiz, Saeed Sheibani, Somayeh Ebrahimi-Barough, Hendra Hermawan. In Vitro Degradation, Hemocompatibility, and Cytocompatibility of Nanostructured Absorbable Fe–Mn–Ag Alloys for Biomedical Application. *ACS Biomater. Sci. Eng. march* 2020, 6, 4, 2094–2106
8. Majid Salehi, Arian Ehterami, Saeed Farzamfar, Ahmad Vaez, Somayeh Ebrahimi-Barough. Accelerating healing of excisional wound with alginate hydrogel containing naringenin in rat model. *Drug Delivery and Translational Research*. Feb 2020.1-12.
9. Amir Allahverdi, Ehsan Arefian, Masoud Soleimani, Jafar Ai, Negin Nahanmoghaddam, Aliakbar Yousefi-Ahmadipour, Somayeh Ebrahimi-Barough. MicroRNA-4731-5p delivered by AD-mesenchymal stem cells induces cell cycle arrest and apoptosis in glioblastoma. Jan 2020. *Journal of Cellular Physiology*. Doi: 10.1002/jcp.29472
10. Somayeh Ebrahimi-Barough, Jafar Ai, Moloud Payab, Sepideh Alavi-Moghadam, Ameneh Shokati, Hamid Reza Aghayan, Bagher Larijani, Babak Arjmand. Standard Operating Procedure for the Good Manufacturing Practice-Compliant Production of Human Endometrial Stem Cells for Multiple Sclerosis. Part of the *Methods in Molecular Biology* book series. June 2020. Springer, New York, NY. pp 1-14.
11. Bahareh Nazari, Mansure Kazemi, Ahmadreza Kamyab, Banafsheh Nazari, Somayeh Ebrahimi-Barough, Mahmoudreza Hadjighassem, Abbas Norouzi-Javidan, Arman Ai, Akbar Ahmadi, Jafar Ai. Fibrin hydrogel as a scaffold for differentiation of induced pluripotent stem cells into oligodendrocytes. *Journal of Biomedical Materials Research Part B: Applied Biomaterials*. Jan 2020; 108 (192-200)
12. Aazam Rahimi, Amir Nahanmoghaddam, Jafar Ai, Navid Gholami, Robab Ebrahimi-Barough, Somayeh Ebrahimi-Barough. Motor neurons differentiation of encapsulated human endometrial stem cells in collagen without HLA-DR expression. *Journal of Applied Tissue Engineering*. Dec 2019; 6 (1), 6-16
13. Ali Farzin, Shabir Hassan, Somayeh Ebrahimi-Barough, Armin Ai, Elham Hasanzadeh, Arash Goodarzi, Jafar Ai. A facile two step heat treatment strategy for

development of bioceramic scaffolds for hard tissue engineering applications. *Materials Science and Engineering: C*. Dec 2019; 105, 110009

14. Elham Hoveizi, Somayeh Ebrahimi-Barough. Embryonic stem cells differentiated into neuron-like cells using SB431542 small molecule on nanofibrous PLA/CS/Wax scaffold. *Journal of cellular physiology*. Nov 2019; 234 (11), 19565-19573
15. Zohreh Arabpour, Alireza Baradaran-Rafii, Nasrin L Bakhshaiesh, Jafar Ai, Somayeh Ebrahimi-Barough, Hossein Esmaeili Malekabadi, Niloofar Nazeri, Ahmad Vaez, Majid Salehi, Farshid Sefat, Seyed N Ostad. Design and characterization of biodegradable multi layered electrospun nanofibers for corneal tissue engineering applications. *Journal of Biomedical Materials Research Part A*. Oct 2019; 107 (10), 2340-2349
16. Amir Ali Hamidieh ZeinabZarei-Behjani, MasoudSoleimani, AmirAtashi, SomayehEbrahimi-Barough, JafarAi. Tracking of GFP-labeled unrestricted somatic stem cells transplanted in the sepsis mouse model. *Tissue and Cell*. Oct 2019; 60: 33-37
17. Hamideh Babaloo, Somayeh Ebrahimi-Barough, Mohammad Ali Derakhshan, Meysam Yazdankhah, Nasrin Lotfibakhshaiesh, Masoud Soleimani, Mohammad-Taghi Joghataei, Jafar Ai. PCL/gelatin nanofibrous scaffolds with human endometrial stem cells/Schwann cells facilitate axon regeneration in spinal cord injury. *Journal of cellular physiology*. July 2019; 234 (7), 11060-11069
18. Amin Monfared, Azadeh Ghaee, Somayeh Ebrahimi-Barough. Preparation and characterisation of zein/polyphenol nanofibres for nerve tissue regeneration. *IET nanobiotechnology*. April 2019; 13 (6), 571-577
19. Ali Farzin, Jafar Ai, Arash Goodarzi , Mehdi Khanmohammadi , Somayeh Ebrahimi-Barough , Mahmoud Azami , Amir Amani , Alireza Baradaran-Rafii , Nasrin Lotfi bakhshaiesh , Armin Ai. Alginate-Based Hydrogel Containing Taurine-Loaded Chitosan Nanoparticles in Biomedical Application. *Archives of Neuroscience*. April 2019; 6 (2), e86349
20. Nesa Fani, Mehdi Farokhi, Mahmoud Azami, Amir Kamali, Nasrin Lotfi Bakhshaiesh, Somayeh Ebrahimi-Barough, Jafar Ai, Mohamadreza Baghaban Eslaminejad. Endothelial and osteoblast differentiation of adipose-derived mesenchymal stem cells using a cobalt-doped CaP/Silk fibroin scaffold. *ACS Biomaterials Science & Engineering*. April 2019; 5 (5), 2134-2146

21. Elham Hasanzadeh, Somayeh Ebrahimi-Barough, Esmaeil Mirzaei, Mahmoud Azami, Seyed Mohammad Tavangar, Narges Mahmoodi, Arefeh Basiri, Jafar Ai. Preparation of fibrin gel scaffolds containing MWCNT/PU nanofibers for neural tissue engineering. *Journal of Biomedical Materials Research Part A*. April 2019; 107 (4), 802-814
22. Somayeh Ebrahimi_Barough & Esmaeil Sadroddiny Hammed Tanimowo Aiyelabegan, Malihe Ebadi, Gholam Ali Kardar, Nasrin Lotfibakhshaiesh, Farid Abedin Dorkoosh. k-Casein upregulates osteogenic differentiation on bone marrow mesenchymal stem cells cultured on agarose microcarriers. *International Journal of Polymeric Materials and Polymeric Biomaterials*. *International Journal of Polymeric Materials and Polymeric Biomaterials*. March 2019.
23. Arefeh Basiri, Mehdi Farokhi, Mahmoud Azami, Somayeh Ebrahimi-Barough, Abdolreza Mohamadnia, Morteza Rashtbar, Elham Hasanzadeh, Narges Mahmoodi, Mohamadreza Baghaban Eslaminejad, Jafar Ai. A silk fibroin/decellularized extract of Wharton's jelly hydrogel intended for cartilage tissue engineering. *Progress in biomaterials*. March 2019; 8 (1), 31-42
24. Joghataei MT. Tavakol S, Hoveizi E, Tavakol B, Azedi F, Barough SE, Keyhanvar P. Small molecule of sphingosine as a rescue of dopaminergic cells: A cell therapy approach in neurodegenerative diseases therapeutics. *J Cell Physiol*, Jan 2019; 1
25. Yousefi-Ahmadipour A, Rashidian A, Mirzaei MR, Farsinejad A, PourMohammadi-Nejad F, Ghazi-Khansari M, Ai J, Shirian S, Allahverdi A, Saremi J, **Ebrahimi-Barough S**. Combination therapy of mesenchymal stromal cells and sulfasalazine attenuates trinitrobenzene sulfonic acid induced colitis in the rat: The S1P pathway. *J Cell Physiol*. 2019 Jul;234(7):11078-11091.
26. Kamalabadi-Farahani M, Vasei M, Ahmadbeigi N, **Ebrahimi-Barough S**, Soleimani M, Roozafzoon R. Anti-tumour effects of TRAIL-expressing human placental derived mesenchymal stem cells with curcumin-loaded chitosan nanoparticles in a mice model of triple negative breast cancer. *Artif Cells Nanomed Biotechnol*. 2018;46(sup3):S1011-S1021.
27. Nazari B, Soleimanifar F, Kazemi M, Nazari B, Enderami SE, Ai A, Sadroddiny E, **Ebrahimi-Barough S**, Ai J. Derivation of preoligodendrocytes from human-induced pluripotent stem cells through overexpression of microRNA 338. *J Cell Biochem*. 2019 Jun;120(6):9700-9708.
28. Behjani ZZ, Ai J, Soleimani M, Atashi A, Taheri B, **Ebrahimi-Barough S**, Siavashi V, Shirian S, Hamidieh AA. Human unrestricted somatic stem cells ameliorate sepsis-related acute lung injury in mice. *J Cell Physiol*. 2019 Aug;234(8):13942-13950
29. Jalali Monfared M, Nasirinezhad F, **Ebrahimi-Barough S**, Hasanzade G, Saberi H, Tavangar SM, Asadpour S, Aryan L, Barabadi Z, Ai J. Transplantation of miR-219 overexpressed human endometrial stem cells encapsulated in fibrin hydrogel in spinal cord injury. *J Cell Physiol*. 2019 Apr 14. doi: 10.1002/jcp.28527.
30. Vaez SA, **Ebrahimi-Barough S**, Soleimani M, Kolivand S, Farzamfar S, Ahmadi Tafti SH, Azami M, Noorbakhsh F, Ai J. The cardiac niche role in cardiomyocyte

- differentiation of rat bone marrow-derived stromal cells: comparison between static and microfluidic cell culture methods. *EXCLI J.* 2018 Aug 1;17:762-774.
31. Izadpanah M, Seddigh A, **Ebrahimi Barough S**, Fazeli SAS, Ai J. Potential of Extracellular Vesicles in Neurodegenerative Diseases: Diagnostic and Therapeutic Indications. *J Mol Neurosci.* 2018 Aug 23. doi: 10.1007/s12031-018-1135-x.
 32. Monfared A, Ghaee A, **Ebrahimi-Barough S**. Fabrication of tannic acid/poly(N-vinylpyrrolidone) layer-by-layer coating on Mg-based metallic glass for nerve tissue regeneration application. *Colloids Surf B Biointerfaces.* 2018 Oct 1;170:617-626.
 33. Nazm Bojnordi M, **Ebrahimi-Barough S**, Vojoudi E, Ghasemi HH. Silk Nanofibrous Electrospun Scaffold Enhances Differentiation of Embryonic Stem like Cells derived from Testis in to mature neuron. *J Biomed Mater Res A.* 2018 Jun 14. doi: 10.1002/jbm.a.36463.
 34. Naghmeh Bahrami, Mohammad Bayat, Armin Ai , Mehdi Khanmohammadi, Jafar Ai, Akbar Ahmadi , Majid Salehi, **Somayeh Ebrahimi-Barough** , Arash Goodarzi , Roya Karimi , Abdolreza Mohamadnia and Azam Rahimi. Differentiation of Periodontal Ligament Stem Cells Into Osteoblasts on Hybrid Alginate/ Polyvinyl Alcohol/ Hydroxyapatite Nanofibrous Scaffolds. *Archives of Neuroscience.* July 2018; e74267
 35. PedramSotoudehBagha, MehrdadKhakbiz, NaghmehSafaie, SaeedSheibani, **Somayeh Ebrahimi-Barough**. Effect of high energy ball milling on the properties of biodegradable nanostructured Fe-35 wt.%Mn alloy. *Journal of Alloys and Compounds*, 2018;768; 166-175
 36. Sotoudehbagha P, Sheibani S, Khakbiz M, **Ebrahimi-Barough S**, Hermawan H. Novel antibacterial biodegradable Fe-Mn-Ag alloys produced by mechanical alloying. *Mater Sci Eng C Mater Biol Appl.* 2018 Jul 1;88:88-94.
 37. Mohamadi F, **Ebrahimi-Barough S**, Nourani MR, Ahmadi A, Ai J. Use new poly (ϵ -caprolactone/collagen/NBG) nerve conduits along with NGF for promoting peripheral (sciatic) nerve regeneration in a rat. *Artif Cells Nanomed Biotechnol.* 2018 Mar 20:1-12.
 38. Nazari B, Soleimani M, **Ebrahimi-Barough S**, Enderami SE, Kazemi M, Negahdari B, Sadroddiny E, Ai J. Overexpression of miR-219 promotes differentiation of human induced pluripotent stem cells into pre-oligodendrocyte. *J Chem Neuroanat.* 2018 Sep;91:8-16.
 39. Bayat N, Izadpanah R, **Ebrahimi-Barough S**, Norouzi Javidan A, Ai A, Mokhtari Ardakan MM, Saberi H, Ai J. The Anti-Angiogenic Effect of Atorvastatin in Glioblastoma Spheroids Tumor Cultured in Fibrin Gel: in 3D in Vitro Model. *Asian Pac J Cancer Prev.* 2018 Sep 26;19(9):2553-2560.
 40. Nooshabadi VT, Mardpour S, Yousefi-Ahmadipour A, Allahverdi A, Izadpanah M, Daneshimehr F, Ai J, Banafshe HR, **Ebrahimi-Barough S**. The extracellular vesicles-derived from mesenchymal stromal cells: A new therapeutic option in regenerative medicine. *J Cell Biochem.* 2018 Jan 29.
 41. Ebrahimi M, Ai J, Biazar E, **Ebrahimi-Barough S**, Khojasteh A, Yazdankhah M
 42. , Sharifi S, Ai A, Heidari-Keshel S. In vivo assessment of a nanofibrous silk tube as nerve guide for sciatic nerve regeneration. *Artif Cells Nanomed Biotechnol.* 2018 Jan 16:1-8.

43. Mohamadi F, **Ebrahimi-Barough S**, Nourani MR, Mansoori K, Salehi M, Alizadeh AA, Tavangar SM, Sefat F, Sharifi S, Ai J. Enhanced sciatic nerve regeneration by human endometrial stem cells in an electrospun poly (ϵ -caprolactone)/collagen/NBG nerve conduit in rat. *Artif Cells Nanomed Biotechnol.* 2017 Nov 8:1-13.
44. Salehi M, Naseri-Nosar M, **Ebrahimi-Barough S**, Nourani M, Vaez A, Farzamfar S, Ai J. Regeneration of sciatic nerve crush injury by a hydroxyapatite nanoparticle-containing collagen type I hydrogel. *J Physiol Sci.* 2018 Sep;68(5):579-587.
45. Salehi M, Naseri-Nosar M, **Ebrahimi-Barough S**, Nourani M, Khojasteh A, Farzamfar S, Mansouri K, Ai J. Polyurethane/Gelatin Nanofibrils Neural Guidance Conduit Containing Platelet-Rich Plasma and Melatonin for Transplantation of Schwann Cells. *Cell Mol Neurobiol.* 2018 Apr;38(3):703-713.
46. Salehi M, Naseri-Nosar M, **Ebrahimi-Barough S**, Nourani M, Khojasteh A, Hamidieh AA, Amani A, Farzamfar S, Ai J. Sciatic nerve regeneration by transplantation of Schwann cells via erythropoietin controlled-releasing polylactic acid/multiwalled carbon nanotubes/gelatin nanofibrils neural guidance conduit. *J Biomed Mater Res B Appl Biomater.* 2018 May;106(4):1463-1476.
47. Rashtbar M, Hadjati J, Ai J, Jahanzad I, Azami M, Shirian S, **Ebrahimi-Barough S**, Sadroddiny E. Characterization of decellularized ovine small intestine submucosal layer as extracellular matrix-based scaffold for tissue engineering. *J Biomed Mater Res B Appl Biomater.* 2018 Apr;106(3):933-944.
48. Soleimannejad M, **Ebrahimi-Barough S**, Nadri S, Riazi-Esfahani M, Soleimani M, Tavangar SM, Ai J. Retina tissue engineering by conjunctiva mesenchymal stem cells encapsulated in fibrin gel: Hypotheses on novel approach to retinal diseases treatment. *Med Hypotheses.* 2017 Apr;101:75-77.
49. Monfared A, Ghaee A, **Ebrahimi-Barough S**. Fabrication of tannic acid/poly(N-vinylpyrrolidone) layer-by-layer coating on Mg-based metallic glass for nerve tissue regeneration application. *Colloids Surf B Biointerfaces.* 2018 Jun 30;170:617-626.
50. Mohamadi F, **Ebrahimi-Barough S**, Reza Nourani M, Ali Derakhshan M, Goodarzi V, Sadegh Nazockdast M, Farokhi M, Tajerian R, Faridi Majidi R, Ai J. Electrospun nerve guide scaffold of poly(ϵ -caprolactone)/collagen/nanobioglass: an in vitro study in peripheral nerve tissue engineering. *J Biomed Mater Res A.* 2017 Jul;105(7):1960-1972.
51. Rashtbar M, Hadjati J, Ai J, Jahanzad I, Azami M, Shirian S, **Ebrahimi-Barough S**, Sadroddiny E. Characterization of decellularized ovine small intestine submucosal layer as extracellular matrix-based scaffold for tissue engineering. *J Biomed Mater Res B Appl Biomater.* 2017 Apr 22.
52. Soleimannejad M, **Ebrahimi-Barough S**, Nadri S, Riazi-Esfahani M, Soleimani M, Tavangar SM, Ai J. Retina tissue engineering by conjunctiva mesenchymal stem cells encapsulated in fibrin gel: Hypotheses on novel approach to retinal diseases treatment. *Med Hypotheses.* 2017 Apr;101:75-77
53. Neda Bayat, **Somayeh Ebrahimi-Barough***, Abbas Norouzi-Javidan, Hooshang Saberi, Mohammad Mehdi Mokhtari Ardakan, Arman Ai , Mostafa Soleimannejad, Jafar Ai. Anti-inflammatory effects of Atorvastatin by suppressing TRAF3IP2 and

IL-17RA in human glioblastoma spheroids cultured in three-dimensional model: Possible relevance to glioblastoma treatment. *Mol Neurobiol.* 2017 Feb 2.

54. Kojour MA, **Ebrahimi-Barough S**, Kouchesfehiani HM, Jalali H, Ebrahim MH. Oleic acid promotes the expression of neural markers in differentiated human endometrial stem cells *J Chem Neuroanat.* 2016 Nov 16;79:51-57.
55. Neda Bayat, **Somayeh Ebrahimi-Barough**, Abbas Norouzi-Javidan, Hooshang Saberi, Roksana Tajerian, Mohammad Mehdi Mokhtari Ardakan, Sadegh Shirian, Arman Ai, Jafar Ai, Apoptotic effect of atorvastatin in glioblastoma spheroids tumor cultured in fibrin gel. *Biomed Pharmacother.* 2016 Nov 8. pii: S0753-3322(16)31719-X. doi: 10.1016/j.biopha.2016.11.003.
56. Naghmeh Bahrami, Fatemeh Malekolkottab , **Somayeh Ebrahimi-Barough***, Zahra Alizadeh Tabari, Jalaleddin Hamisi, Ahmadreza Kamyab, Abdolreza Mohamadnia, Armin Ai, Farshad Bayat, Naeim Bahrami, Jafar Ai. The Effect of Purmorphamine on Differentiation of Endometrial Stem Cells into Osteoblast like Cells on Collagen/Hydroxyapatite Scaffolds. *Artif Cells Nanomed Biotechnol.* 2016 Sep 30:1-7
57. Bahrami N, Bayat M, Mohamadnia A, Khakbiz M, Yazdankhah M, Ai J, **Ebrahimi-Barough S***. Purmorphamine as a Shh Signaling Activator Small Molecule Promotes Motor Neuron Differentiation of Mesenchymal Stem Cells Cultured on Nanofibrous PCL Scaffold. *Molecular neurobiology.* 2016 Sep 14.
58. Meysam Yazdankhah. **Somayeh Ebrahimi-Barough**. In Vivo Administration of Cerebrospinal Fluid of Patients with Multiple Sclerosis; A New Model to Study Adult Neurogenesis in Different Stages of Disease. *Journal of neurology and neuroscience.* 2016;7(3):105-108 IF:0.1
59. Kiasatdolatabadi A, Lotfibakhshaiesh N, Yazdankhah M, **Ebrahimi-Barough S**, Jafarabadi M, Ai A, Sadroddiny E, Ai J. The Role of Stem Cells in the Treatment of Cerebral Palsy: a Review. *Mol Neurobiol.* 2016 Aug 13.
60. Sharifi E, **Ebrahimi-Barough S**, Panahi M, Azami M, Ai A, Barabadi Z, Kajbafzadeh AM, Ai J. In vitro evaluation of human endometrial stem cell-derived osteoblast-like cells' behavior on gelatin/collagen/bioglass nanofibers' scaffolds. *J Biomed Mater Res A.* 2016 Sep;104(9):2210-9.
61. Poursamar SA, Lehner AN, Azami M, **Ebrahimi-Barough S**, Samadikuchaksaraei A, Antunes AP. The effects of crosslinkers on physical, mechanical, and cytotoxic properties of gelatin sponge prepared via in-situ gas foaming method as a tissue engineering scaffold. *Mater Sci Eng C Mater Biol Appl.* 2016 Jun;63:1-9.
62. **Ebrahimi-Barough S**, Hoveizi E, Yazdankhah M, Ai J, Khakbiz M, Faghihi F, Tajerian R, Bayat N. Inhibitor of PI3K/Akt Signaling Pathway Small Molecule Promotes Motor Neuron Differentiation of Human Endometrial Stem Cells Cultured on Electrospun Biocomposite Polycaprolactone/Collagen Scaffolds. *Mol Neurobiol.* 2016 Mar 18.
63. Shamosi A, Mehrabani D, Azami M, **Ebrahimi-Barough S**, Siavashi V, Ghanbari H, Sharifi E, Roozafzoon R, Ai J. Differentiation of human endometrial stem cells

- into endothelial-like cells on gelatin/chitosan/bioglass nanofibrous scaffolds. *Artif Cells Nanomed Biotechnol.* 2017 Feb;45(1):163-173.
64. Hoveizi E, **Ebrahimi-Barough S**, Tavakol S, Sanamiri K. In Vitro Differentiation of Human iPS Cells into Neural like Cells on a Biomimetic Polyurea. *Mol Neurobiol.* 2017 Jan;54(1):601-607.
 65. Bayat N, **Ebrahimi-Barough S**, Ardakan MM, Ai A, Kamyab A, Babaloo N, Ai J. Differentiation of Human Endometrial Stem Cells into Schwann Cells in Fibrin Hydrogel as 3D Culture. *Mol Neurobiol.* 2016 Dec;53(10):7177.
 66. Bayat N, **Ebrahimi-Barough S**, Mokhtari Ardakan MM, Ai J. Human Endometrial Stem Cells May Differentiate into Schwann Cells in Fibrin Gel as 3D Culture. *Neuroscience & Medicine*, 2015, 6.
 67. Shirian S, **Ebrahimi-Barough S**, Saberi H, Norouzi-Javidan A, Mousavi SM, Derakhshan MA, Arjmand B, Ai J. Comparison of Capability of Human Bone Marrow Mesenchymal Stem Cells and Endometrial Stem Cells to Differentiate into Motor Neurons on Electrospun Poly(ϵ -caprolactone) Scaffold. *Mol Neurobiol.* 2016; 53(8):5278-87.
 68. Mirzaei E, Ai J, **Ebrahimi-Barough S**, Verdi J, Ghanbari H, Faridi-Majidi R. The Differentiation of Human Endometrial Stem Cells into Neuron-Like Cells on Electrospun PAN-Derived Carbon Nanofibers with Random and Aligned Topographies. *Mol Neurobiol.* 2016; 53(7):4798-808.
 69. Bagher Z, **Ebrahimi-Barough S**, Azami M, Safa M, Joghataei MT. Cellular activity of Wharton's Jelly-derived mesenchymal stem cells on electrospun fibrous and solvent-cast film scaffolds. *J Biomed Mater Res A.* 2016 Jan;104(1):218-26.
 70. Bagher Z, **Ebrahimi-Barough S**, Azami M, Mirzadeh H, Soleimani M, Ai J, Nourani MR, Joghataei MT. Induction of human umbilical Wharton's jelly-derived mesenchymal stem cells toward motor neuron-like cells. *In Vitro Cell Dev Biol Anim.* 2015 Oct;51(9):987-94.
 71. Elham hoveizi, **Somayeh Ebrahimi-barough**, Shima Tavakol, Jafar Ai Differential effect of Activin A and WNT3a on definitive endoderm differentiation on electrospun nanofibrous PCL scaffold: DE Differentiation of hiPSCson PCL scaffold. *Cell Biology International* 2015; 39(5):591-9.
 72. **Somayeh Ebrahimi-Barough**, Elham Hoveizi, Abbas Norouzi Javidan, Jafar Ai. Investigating the neuroglial differentiation effect of neuroblastoma conditioned medium in human endometrial stem cells cultured on 3D nanofibrous scaffold *Journal of Biomedical Materials Research Part A* 2015; 103(8):2621-7.
 73. Hoveizi E, **Ebrahimi-Barough S**, Tavakol S, Nabiuni M. In vitro comparative survey of cell adhesion and proliferation of human induced pluripotent stem cells on surfaces of polymeric electrospun nanofibrous and solution-cast film scaffolds. *Journal of Biomedical Materials Research Part A* 2015; 103(9):2952-8.
 74. Nafiseh Baheiraei, Hamid Yeganeh, Jafar Ai, Reza Gharibi, **Somayeh Ebrahimi-Barough**, Mahmoud Azami, Sadaf Vahdat, Hossein Baharvand. Preparation of a

- porous conductive scaffold from aniline pentamer-modified polyurethane/PCL blend for cardiac tissue engineering. *Journal of Biomedical Materials Research Part A* 2015; 103(10):3179-87.
75. Faghihi F, Mirzaei E, Ai J, Lotfi A, Sayahpour FA, **Ebrahimi-Barough S**, Joghataei MT. Differentiation Potential of Human Chorion-Derived Mesenchymal Stem Cells into Motor Neuron-Like Cells in Two- and Three-Dimensional Culture Systems. *Molecular Neurobiology* 2016 Apr;53(3):1873.
 76. Maryam Roya Ramzgouyan, Mohammad Tavangar, Jamshid Hajati, Nasrin Lotfibakhshaiesh, Fardin Amidi, **Somayeh Ebrahimi-Barough**, Roya Karimi, Reza Roozafzoon, Mina Jafarabadi, Ahmad Jafar Bekloo, Jafar Ai . Human endometrial stem cells (hEnSCs) differentiation into germ cell-like cells by encapsulating in fibrin scaffold . *Basic research journal* 2015 4(3);101-110.
 77. Zohreh Bagher, Mahmoud Azami, **Somayeh Ebrahimi-Barough**, Hamid Mirzadeh, Atefeh Solouk, Mansooreh Soleimani, Jafar Ai, Mohammad Reza Nourani, Mohammad Taghi Joghataei . Differentiation of Wharton’s Jelly-Derived Mesenchymal Stem Cells into Motor Neuron-Like Cells on Three-Dimensional Collagen-Grafted Nanofibers. *Molecular Neurobiology* 2016 May;53(4):2397-408.
 78. **Somayeh Ebrahimi-Baroug**, Abbas Norouzi-Javidan, Hoshang Saberi, Mohammad Tghi Joghataei, Esmaeil Mirzaei, Reza Rahbarghazi, Faezeh Faghihi, Sadegh Shirian, Jafar Ai. Evaluation of motor neuron-like cells differentiation ability of hEnSCs on biodegradable PLGA nanofiber scaffolds. *Molecular Neurobiology*, 2015; 52(3):1704-13.
 79. Elham Hoveizi, Shima Tavakol, **Somayeh Ebrahimi-Barough**. Neuroprotective Effect of Transplanted Neural Precursors Embedded on PLA/CS Scaffold in an Animal Model of Multiple Sclerosis. *Molecular Neurobiology*, 2015; 51(3):1334-42.
 80. Faezeh Faghihi, Esmaeil Mirzaei, Arash Sarveazad, Jafar Ai, **Somayeh Ebrahimi-Barough**, Abolfazl Lotfi, Mohammad Taghi Joghataei .Differentiation Potential of Human Bone Marrow Mesenchymal Stem Cells into Motoneuron- like Cells on electrospun Gelatin Membrane. *J Molecular Neuroscience*,2015; 55(4):845-53.
 81. Jafar Ai · Faezeh Faghihi · Hora Jalali · Kazem Parivar · Abdolmohammad Kajbafzadeh · Reza Roozafzoon · **Somayeh Ebrahimi-Barough** · Armin Ai · Abolfazl Lotfi · Mohamad Taghi Joghataei · Aliakbar Alizadeh · Azadeh Niknam Asl. Evaluation of differentiation potential of endometrial-versus bone marrow-derived mesenchymal stem cells into myoblast-like cells. *International journal of current life sciences*. 2014;4(8), 3992-3997
 82. **Somayeh Ebrahimi-Barough**, Homa Mohseni Kouchesfehiani, Jafar Ai, Mohammad Massumi. Differentiation of endometrial stromal cells into Oligodendrocyte Progenitor Cells (OPCs). *J Molecular Neuroscience*, 2013;51(2): 265-273.

83. **Somayeh Ebrahimi-Barough**, Homa Mohseni Kouchesfehiani, Jafar Ai, Mohammad Massumi. Programming of human endometrial stromal cells (hEnSCs) into pre-oligodendrocyte cells by overexpression of miR-219. *Neuroscience letter*, 2013; 14;537:65-70.
84. **Somayeh Ebrahimi-Barough**, Mohammad Massumi, Homa Mohseni Kouchesfehiani, Jafar Ai. Derivation of Pre-oligodendrocytes from Human Endometrial Stromal Cells by Using Overexpression of MicroRNA 338. *J Molecular Neuroscience*, 2013; 51(2):337-343
85. Mahmoud Azami, Jafar Ai, **Somayeh Ebrahimi**, Mehdi Farokhi, Sahar E.Fard. *In vitro* evaluation of biomimetic nanocomposite scaffold using endometrial stem cell derived osteoblast-like cells. *Tissue Cell*, 2013; 45(5):328-37.
86. Jafar Ai, **Somayeh Ebrahimi**, Ahad Khoshzaban, Tahereh Sadat Jafarzadeh Kashi, Davood Mehrabani. Tissue engineering in bone regeneration using mineralized bone allograft and bone marrow mesenchymal stem cells. *IRCMJ*, 2012,14(2):96-102.
87. Jafar Ai, **Somayeh Ebrahimi**, Armin Ai, Roya Karimi, Naghmeh Bahrami. Effect of deforolimus and VEGF on angiogenesis in endometrial stromal cells following three-dimensional culture. *Stem cell discovery*. 2013;3(1):7-13
88. Zahra Taherian Mobarakeh, Jafar Ai, Farzad Yazdani, Seyed Mahdi Rezayat Sorkhabadi, Zinat Ghanbari, Abbas Noroozi Javidan, Seyed Abdol Reza Mortazavi-Tabatabaei, Mohammad Massumi and **Somayeh Ebrahimi Barough**. Human endometrial stem cells as a new source for programming to neural cells. *Cell Biol. Int. Rep.* 19(1):7-14.
89. Jafar Ai, Ahmad Reza Shahverdi, **Somayeh Ebrahimi Barough**, Homa Mohseni Kouchesfehiani, Saeed Heidari, Reza Roozafzoon, Javad Verdi, Ahad Khoshzaban. Derivation of Adipocytes from Human Endometrial Stem Cells (EnSCs). *J Reprod Infertil.* 2012; 13(3):151-157.
90. Shima Tavakol ,Iraj Ragerdi Kashani , Mahmood Azami ,Ahad Khoshzaban, Behnaz Tavakol , Sharmin Kharrazi ,**Somayeh Ebrahimi**, Seyed Mahdi Rezayat Sorkhabadi. In vitro and in vivo investigations on bone regeneration potential of laminated hydroxyapatite/gelatin nanocomposite scaffold along with DBM. *J Nanopart Res* .2012; 14:1265.
91. Jafar Ai, Ebrahim Azizi, Azam Shamsian, Akram Eslami, Ahad Khoshzaban, **Somayeh Ebrahimi-Barough**, Armin Ai, Aliakbar Alizadeh . The effect of BMP2 on osteogenic differentiation of human endometrial stem cells. *ABM Jornal*, 2014, **8(1) 21-29** .
92. Kouchesfehiani H, Nabiuni M, Parivar K, **Ebrahimi S**. Effect of honey bee venom on differentiation of cholinergic neurons. *J Venom Res*, 2010; 1, 29-36 IF:0.1

93. Jafar Ai, Anahita Kiasat-Dolatabadi, **Somayeh Ebrahimi**, Armin Ai, Nasrin Lotfibakhshaiesh. Application of tissue engineering in the nervous system: A review. Archives of Neuroscience, 2013,1(1):15-20.
94. Mona Navaei-Nigjeh , Ghasem Amoabedini, Abbas Noroozi, Mahmoud Azami, Mohammad Nabi Asmani, **Somayeh Ebrahimi Barough**, Hooshang Saberi,Armin Ai, Jafar Ai. Enhancing neuronal growth from human endometrial stem cells derived neurons in three-dimensional fibrin gel for nerve tissue engineering. Biomedical Material Research Part A, 2013; 102(8):2533-43 Doi: 10.1002/jbm.a.34921.
95. Mohammad Nabi Asmani, Jafar Ai, GhasemAmoabediny, Abbas Noroozi, Mahmoud Azami, Somayeh Ebrahimi-Barough, Mona Navaei-Nigjeh,Armin Ai, Mina Jafarabadi. Study of Three Dimensional Culture of Differentiated Endometrial Stromal Cells to Oligodendrocyte Progenitor Cells (OPCs) in Fibrin Hydrogel . cell biology international, 2013; 37(12):1340-9. doi:101002/cbin.10171.
96. Azadeh Niknamasl, Seyed Nasser Ostad, Mansoureh Soleimani, Mahmoud Azami, Maryam Kabir Salmani, Nasrin Lotfibakhshaiesh, **Somayeh Ebrahimi-Barough**, Roya Karimi, Reza Roozafzoon, Jafar Ai . A new approach for pancreatic tissue engineering: human endometrial stem cells encapsulated in fibrin gel can differentiate to pancreatic islet beta-cell. Cell Biology International 2014; 38(10):1174-82.
97. J Ai, S Ebrahimi, A Khoshzaban, TSJ Kashi, D Mehrabani. Tissue engineering using human mineralized bone xenograft and bone marrow mesenchymal mesenchymal stem cells allograft in healing of tibial fracture of experimental rabbit model. Iranian Red Crescent Medical Journal 2012, 14 (2), 96

Presentations

Oral presentation

- 1- **Somayeh Ebrahimi –Barough**. LY294002 small molecule promotes motor neuron differentiation of human endometrial stem cells cultured on electrospun biocomposite Polycaprolactone/Collagen scaffolds. The Ninth Annual Conference of International Association of Neurorestoratology (IANR), Tianjin, China 2016. Keynote speaker
- 2- Homa Mohseni Kouchesfahani, Mohammad Nabiuni, Kazem Parivar, **Somayeh Ebrahimi**; Effect honey bee venom and RA on neural differentiation P19 cells. The 15th National&Third International Conference of biology, Tehran- Iran, Aug 2008.
- 3- **Somayeh Ebrahimi** Barough, Homa Mohseni Kouchesfehiani, Jafar Ai and Mohammad Massumi. Differentiation of human endometrial stem cells into

- oligodendrocyte with overexpression of miRNA338. 2012 Basic and clinical neuroscien cecongress, Tehran- Iran,
- 4- Jafar Ai, Mona Navaei, Mohammad Asmani, Abbas Norozi, Ghasem Amoabedini, Mahmoud Azami, **Somayeh Ebrahimi** Barough and Roya Karimi. Tissue engineering of spinal cord by 3D culture and differentiated endometrial stem cell to neuron and oligodendrocyte in fibrin gel. 2012 Basic and clinical neuroscien cecongress, Tehran- Iran
 - 5- **Somayeh Ebrahimi** Barough. The application of stem cells in skin repairs and wound healing. First Iranian wound and burn congress. Shiraz-2016
 - 6- **Somayeh Ebrahimi** Barough. Mesenchymal stem cells differentiation into neural cells on PLGA/PCL scaffold. 2th Iranian congress on progress in tissue engineering and regenerative medicine. Tehran. 2015
 - 7- Jafar Ai, **Somayeh Ebrahimi** Barough. The application of tissue engineering in nervous system. 2th Iranian congress on progress in tissue engineering and regenerative medicine. Tehran. 2015
 - 8- **Somayeh Ebrahimi** Barough. Small molecule can promote motor neuron differentiation of human endometrial stem cells cultured on nanofibrous scaffolds. 3th Iranian congress on progress in tissue engineering and regenerative medicine. Tehran. 2016
 - 9- **Somayeh Ebrahimi** Barough. Small molecule can promote motor neuron differentiation of human endometrial stem cells encapsulated in collagen hydrogel. IANR VIII&12th GCNN congress. Tehran, 2015
 - 10- **Somayeh Ebrahimi** Barough. Human endometrial stem cells differentiation into motor neuron cells on nanofirer electrospining scaffold.3th Iranian congress on cellular and molecular progression in disease. Babol, Iran. 2015

PUBLISHED ABSTRACTS:

- 11- **Somayeh Ebrahimi**, Kazem Parivar, Mohammad Nabiuni. Effect of DHEA on neuronal apoptosis. 2011 EFNS European Journal of Neurology 18 (Suppl. 2), 344–620.
- 12- **Somayeh Ebrahimi Barough**, Homa Mohseni Kouchesfehiani, Jafar Ai, Behnam Yonesi and Mohammad Massumi. Human endometrial stem cells attain oligodendrocyte features in vitro. 2012 EFNS European Journal of Neurology 19 (Suppl. 1), 90–457.

Poster presentation

- 13- Neda Bayat, **Somayeh Ebrahimi-barough**, Abbas Nourozi, Hoshang Saberi, Jafar Ai. Atorvastatin induces apoptotic gene expression in glioblastoma cells in three dimensional cultures. Tissue engineering and regenerative medicin, Berlin, Germany. 2016.Poster
- 14- **Somayeh Ebrahimi Barough**, Jafar Ai. Fibrin hydrogel provides a suitable three dimensional scaffold for neural and glial cells differentiation of endometrial stem cells. Frontier in Biomaterials & Tissue Engineering Conference, Budapest. 2013.

- 15- **Somayeh Ebrahimi -Barough**, Elham Hoveizi. dehydroepiandrosterone treatment can increase GSK3b phosphorylation in neural progenitor cells. 2014, Cell Journal 16 (1), Royan International Twin Congress. Poster presentation Royan
- 16- Elham hoveizi, **Somayeh Ebrahimi-Barough**. Survey of interaction between induced pluripotent stem cells and PLA/Gelatin scaffold. 2014, Cell Journal; 16(1), Royan International Twin Congress. Poster presentation royan
- 17- Elham hoveizi, Shima Tavakol, **Somayeh Ebrahimi-Barough**. The effect of PLA/CS scaffold in improving skin wound healing. 2014, Cell Journal 16 (1), Royan International Twin Congress. Poster presentation royan
- 18- Jafar Ai, Sarah dehmardeh, **Somayeh Ebrahimi**. Deferolimus decrease angiogenesis in endometrial stem cell. 2012 1st International Students' Stem Cell Congress of Turkey , poster presentation
- 19- **Somayeh Ebrahimi** Barough, Homa Mohseni Kouchesfehiani, Jafar Ai and Mohammad Massumi. Overexpression Of microRNA 219 In Human Endometrial Stem Cells Contribute to Oligodendrocyte Differentiation by Reduction of PDGFRa. 2012 Royan International Twin Congress. Poster presentation
- 20- **Somayeh Ebrahimi-Barough**, Homa Mohseni Kouchesfehiani, Jafar Ai and Mohammad Massumi. Differentiation of Human Endometrial Stem Cells into Oligodendrocyte using conditioned medium of BE (2)-C cells. 2012 The 17th National&fifth International Conference of biology, Kerman- Iran, poster presentation
- 21- Elham Hoveizi, Mohammad Nabiuni, Sirus Khodadadi, **Somayeh Ebrahimi**; Synergism effect NGF and honey bee venom on neurons differentiation PC12 cells, 16th National and 4th International Conference of Biology, Ferdowsi University of Mashhad, Mashhad, Iran, SEP 2010. Poster presentation
- 22- Mohammad Nabiuni, **Somayeh Ebrahimi**, Maryam Alavi, Amir Rabiei, Hosein Behbodi, Elham Hoveizi. Effect of 1,3-bis(2-cyanophenyl)triazene on cell proliferation of PC12 and B16F10 cell lines. 16th National and 4th International Conference of Biology, Ferdowsi University of Mashhad, Mashhad, Iran, SEP 2010. Poster presentation
- 23- Mohammad Massumi, Behnam Younesi, Mahnaz Azarnia, Jafar Ai, **Somayeh Ebrahimi**. Can human Eye-Derived induced pluripotent stem cells (iPS) efficiently be programmed to oligodendrocyte? 2012 Royan International Twin Congress. Tehran, Iran. Poster presentation
- 24- Mona Navaei-Nigjeh, Jafar Ai, Ghasem Amoabedini, Abbas Noroozi, Mahmoud Azami, Mohammad Nabi Asmani, **Somayeh Ebrahimi** and Roya Karimi. Characterization of human endometrial stem cells-derived neurons outgrowth in two-

and three-dimensional culture systems. 4th National congress on spinal injuries, Tehran, Feb 13-15, 2013, poster presentation

- 25- Zohreh Bagher, **Ebrahimi-Barough S**, Azami M, Mirzadeh H, Joghataei MT. Human Umbilical Wharton's Jelly-Derived Mesenchymal Stem Cells toward Motor neuron-like cells. The first national Congress and 5th Annual Congress of stem cells; 01/2015
- 26- Zohreh Bagher, **Ebrahimi-Barough S**, Azami M, Mirzadeh H, Joghataei MT. Differentiation of Wharton's Jelly-derived mesenchymal stem cells to motor neuron like cells on collagen-grafted three-dimensional nanofibers. The Asian nano congress; 01/2015
- 27- Zohreh Bagher, Ebrahimi-Barough S, Azami M, Mirzadeh H, Joghataei MT . Induction of Human Umbilical Wharton's Jelly-Derived Mesenchymal Stem Cells toward Motor neuron-like cells. The first national Congress and 5th Annual Congress of stem cells; 01/2015
- 28- Zohreh Bagher, **Ebrahimi-Barough S**, Azami M, Mirzadeh H, Joghataei MT . Investigation of Wharton's Jelly -Derived Mesenchymal Stem Cells' Cellular Activity on Electrospun Fibrous and Solvent-Cast Film Scaffolds. The first Iranian Annual Congress on Progress in Tissue Engineering and Regenerative Medicine; 01/2015

Scientific and panel member of congress

- 1- Scientific and panel member of 1th International Iranian tissue engineering and regenerative medicine congress. Tehran. 2018
- 2- Scientific and panel member of 2th Iranian congress on progress in tissue engineering and regenerative medicine. Tehran. 2016
- 3- Scientific and panel member of 3th Iranian congress on progress in tissue engineering and regenerative medicine. Tehran. 2017
- 4- Scientific member of First Iranian wound and burn congress. Shiraz-2016
- 5- Scientific and panel member of IANR VIII&12th GCNN congress. Tehran, 2015
- 6- Panel member of Neurorestoratology (IANR), Tianjin, China 2016.
- 7- Scientific member of nanofiber congress, Tehran, Iran, 2018

Patent:

- 1- Production of prolactin from endometrial stem cells in fibrin gel. Iran, 2019.
- 2- Production of microglia cells from endometrial stem cells (EnSCs). Iran, 2018.
- 3- Production of neural cells from endometrial stem cells by Schwann cells co-culture. Iran, 2018.
- 4- The preparation of Schwann cells from endometrial stem cells in 2D and 3D culture. Iran, 2016.

Books

1. Central Nervous System Tissue Engineering: Current Considerations and Strategies. Somayeh Ebrahimi et al., 2018 (Persian)
2. Stem cells in regenerative medicine. Somayeh Ebrahimi et al., 2019 (Persian)

International Chapter Book:

1. **Somayeh Ebrahimi-Barough** · Reza Rahbarghazi · Zohreh Bagher · Jafar Ai · Elham Hoveizi. [Current Understanding Realities of Umbilical Cord Stem Cells Biology and Future Perspectives in Clinical Application. In book: Perinatal Tissue-Derived Stem Cells-Alternative Sources of Fetal Stem Cells.](#) Chapter: 6, Publisher: Springer International Publishing Switzerland 2017, Editors: B. Arjmand, pp.107-136
*First name and corresponding author
2. **Somayeh Ebrahimi-Barough**, Jafar Ai, Moloud Payab, Sepideh Alavi-Moghadam, Ameneh Shokati, Hamid Reza Aghayan, Bagher Larijani, Babak Arjmand. [Standard Operating Procedure for the Good Manufacturing Practice-Compliant Production of Human Endometrial Stem Cells for Multiple Sclerosis.](#) Methods in molecular biology (Clifton, N.J.), 2020

*First name

3. Md.Shahidulislam, Abolghasemi R, Ai J, **Ebrahimi-Barough S**, Han F. [Cell-Based Therapy for Spinal Muscular Atrophy.](#) Chapter8. F. Han and P. Lu (eds.), Stem Cell-based Therapy for Neurodegenerative Diseases, Advances in Experimental Medicine and Biology, 1266, https://doi.org/10.1007/978-981-15-4370-8_8

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Reviewer:

1. Reviewer of Journal of Cell Biology International
2. Reviewer of Journal of Molecular Neuroscience
3. Reviewer of Journal of Molecular Biology Reports
4. Reviewer of Journal of Molecular Neurobiology
5. Reviewer of Koumesh journal
6. Reviewer of journal of biomedical material research part A
7. Reviewer of Cell journal
8. Reviewer of Frontiers in Neurology
9. Reviewer of journal of tissue engineering and regenerative medicine
10. Reviewer of journal of cellular physiology
11. Reviewer of archives of neurosciences
12. Reviewer of International Journal of Biological Macromolecules
13. Reviewer of International Journal of Nanomedicine (Journal Impact Factor: 4.471)
14. Reviewer of Iterm congress
15. Reviewer of stem cell congress, Royan
16. Ph.D reviewer

17. Reviewer of (national institute for medical research development) NIMAD Proposal

PROFESSIONAL MEMBERSHIPS

1. Member of director board of Iranian tissue engineering and regenerative medicine society.
2. Member of tissue engineering and regenerative medicine society (TERMIS).
3. Member of developmental biology society of Iran.

Editorial Board of journals:

1. Editorial board member of international journal of neurobiology research
<http://www.ghrnet.org/index.php/ijnr/about/editorialTeam>
2. Editorial board member of journal of applied tissue engineering
<http://www.fmsbi.com/journal/ojs/index.php/JATE/about/editorialTeam>
3. Editorial board member of SM journal of stem cell research
<http://smjournals.com/stem-cell/editorial-board.php#>
4. Editorial board member of Austin Tissue Engineering
<http://austinpublishinggroup.com/tissue-engineering/editorialBoard.php>

Grants:

Young assistant professor award grant from the ministry of health and medical education, Iran, 2015 and 2018

Young researcher grant from national institute for medical research development (NIMAD), 2018

Elite Researcher Grant Proposal from NIMAD, 2017

Stem cell council grant 2015

Stem cell council grant 2020

Post doct supportive Grant from Iran national science foundation (INSF) 2014

- The design and fabrication of nerve guide conduit by 3D printing technique for repair of peripheral nerve injury. Craniomaxillofacial Research Center, Tehran University of Medical Sciences, Tehran, Iran

- Preparation and characterization of porous nanocomposites scaffolds based on biodegradable polymer blends of PHBV/PCL containing of nanoparticles and investigation of cellular behaviour on scaffold. Research vice dean of Tehran university of medical sciences. 2017-2019
- Human endometrial stem cell isolation and expansion for cell therapy of patient with multiple schlorosis. Young researcher grant from iran ministry of health and medical education, Tehran, Iran 2019-2020
- Cell therapy using human endometrial stem cell in patients with Secondary progressive-MS: Phase I clinical trial. Stem cell council grant 2020
- Study of therapeutic effect of Mesenchymal stem cells activated with TNF-a on IBD animal model: Investigation of PD1/PDL1 pathway. Elite Researcher Grant Proposal NIMAD,2017-2019
- The use of encapsulated human endometrial stem cells in chitosan/alginate hydrogel containing taurine-loaded nanoparticles to repair spinal cord injury animal model. Young researcher grant from NIMAD, 2018

Technological and Clinical Trial Grants:

- Cell therapy using human endometrial stem cell in patients with Secondary progressive-MS: Phase I clinical trial. Stem cell council grant 2020
<https://irct.ir/trial/40732>
- The effect of PI3K/AKt signaling inhibition using LY294002 as a small molecule in motor neuron differentiation of human mesenchymal stem cells cultured on nanofibrous scaffold PCL/Collagen. Research vice dean of Tehran university of medical sciences. 2014-2016
- Human endometrial stem cell isolation and expansion for cell therapy of patient with multiple schlorosis. Young researcher grant from iran ministry of health and medical education, Tehran, Iran 2019-2020
- Skin tissue engineering using with alginate/PRP/Naringinin in Rat as animal model. Young researcher grant from iran ministry of health and medical education, Tehran, Iran 2015-2016

Skills:

- Molecular and cellular techniques
- Computer: Excellent knowledge of Office XP (Excel, Word, PowerPoint).
- Internet.

Language capabilities:

- Persian (native)
- Turkish (native)
- English (full working proficiency)
- French (intermediate)