

Curriculum Vitae



PERSONAL & CONTACT INFORMATION

Name: Abdolreza Ardeshirylajimi

Date of Birth: jun.22.1983

Place of Birth: Savadkoh, Iran

Marital Status: Married

Sex: Male

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ORCID number: 0001-8858-8635

Assistant Professor in Department of Tissue Engineering and Applied Cell Sciences, School of Advanced Technologies in Medicine, Shahid Beheshti University of Medical Sciences, Tehran, Iran.

I work on the tissue engineering and regenerative medicine fields with a focus on the induced pluripotent stem cells (iPSCs), Adult stem cells (isolation and characterization) and biocompatible scaffolds in the orthopedic disorders. We established Osteogenic and Chondrogenic differentiation process of iPSCs and Mesenchymal stem cells on 2D and 3D culture system. Our motivation is in the scaffold fabrication process, for example, the use of different biocompatible and biodegradable bio-polymers (synthetic and natural), several surface modification methods for scaffolds fabricated by various methods, encapsulation or incorporation of drugs, growth factors, genes and etc. We used animal models in the most of our studies, we also try to investigate more about which signal pathways involved in the osteogenic induction by nanofibrous scaffolds.

EDUCATION

Year: 2016

Postdoctoral Fellowship in Edward A. Doisy Department of Biochemistry and Molecular Biology, Saint Louis University, St. Louis, MO, USA; Office: DRC, Room 551; Phone: (314) 977-9282; **Supervisor:** Professor Alireza Ray Rezaie

Year: 2013

Ph.D. of Biophysics; Science & Research branch of Islamic Azad University, Tehran, Iran

Thesis title: Study of the Effect of Surface Modifications of PES nanofiber on human induced Pluripotent Stem Cells (hiPSCs) Differentiation into Osteoblasts; **Supervisors:** Dr. Masoud Soleimani & Dr. Saman Hosseinkhani

Year: 2008

M.Sc. of cellular and molecular sciences; Science & Research branch of Islamic Azad University, Tehran, Iran.

Thesis title: Study of the inhibitory effect of Scrophularia striata extract on the growth of human astrocytoma cell line (1321); **Supervisor:** Dr. Mostafa Rezaie Tavirani

Year: 2005

B.Sc of cellular and molecular sciences (Microbiology) Imam Hosein University, Tehran, Iran.

WORK EXPERIENCE

Year: 2015- 2016

Postdoctoral Fellow in Edward A. Doisy Department of Biochemistry and Molecular Biology, Saint Louis University, St. Louis, MO, USA

Inflammation and cell signaling (**A**nimal working with US certificate, **C**ell culture, **P**ermeability assay, **T**ransfection by Electroporation and Lipofectamin, **C**ell Based ELISA, **W**estern blot)

Year: 2011- 2015

Department of Stem Cell Biology, Stem Cell Technology Research Center, Tehran, Iran:

2013-2015: As **Assistant professor**

2014-2015: **Manager** of animal laboratory

2011-2013: As a **Researcher**

Work in the projects related to the tissue engineering contain techniques such as:

Tissue engineering, **3D** culture and **A**nimal modeling

Cell and tissue cultures: **I**nduced Pluripotent Stem cells, **M**esenchymal stem cell (preparation from Bone marrow and Adipose tissue of Human and animals), Embryonic stem cells, (Constant teacher workshops in these fields in Institute), Differentiation process to Osteogenic, Adipogenic, Chondrogenic, Smooth muscle cells, Cardiogenic Tissues

PCR, Real-time RT-PCR, ELISA, ICC, IHC, Electrospinning,

Year: 2007-2010

Proteomics Research Center (PRC), Faculty of Paramedical Sciences, ShahidBeheshti University of Medical Sciences, Tehran, Iran:

2DE technique (two dimensional Electrophoresis),[SDS PAGE, IPG and IEF]

LANGUAGE SKILLS

Persian (Native)

English (Fluent)

PUBLICATIONS:

ISI:

1. Arjmand M, **Ardeshirylajimi A**, Maghsoudi H, Azadian E. Osteogenic differentiation Potential of Mesenchymal Stem Cells cultured on Nanofibrous Scaffold Improved in the Presence of Pulsed Electromagnetic Field. *J Cell Physiol*. 2017 Apr 17. doi: 10.1002/jcp.25962.
2. Tayebe Sanchooli, Mohsen Norouzian, **Abdolreza Ardeshirylajimi**, Seyed Kamran Ghoreishi, Mohammad Amin Abdollahifar, Hamid Nazarian, Abbas Piryaee. Adipose Derived Stem Cells Conditioned Media in Combination with Bioceramic-Collagen Scaffolds Improved Calvarial Bone Healing in Hypothyroid Rats. *Iranian Red Crescent Medical Journal*. DOI: 10.5812/ircmj.45516
3. **Ardeshirylajimi A**. Applied Induced Pluripotent Stem Cells in Combination with Biomaterials in Bone Tissue Engineering. *Journal of Cellular Biochemistry*. 2017, doi: 10.1002/jcb.25996.
4. Mohamadyar-Toupkanlou F, Vasheghani-Farahani E, Hanaee-Ahvaz H, Soleimani M, Dodel M, Havasi P, **Ardeshirylajimi A**, Taherzadeh ES. Osteogenic Differentiation of MSCs on Fibronectin coated and nHA-modified scaffolds. *ASAIO J*. 2017 doi:10.1097/MAT.0000000000000551
5. Hassanian SM, Avan A, **Ardeshirylajimi A**. Inorganic polyphosphate: a key modulator of inflammation. *J Thromb Haemost*. 2016 Dec 7. doi: 10.1111/jth.13580.
6. Armaghan Ghiaee, Faeze Pournaqi, Saeid Vakilian, Abdolah Mohammadi-Sangcheshmeh, **Abdolreza Ardeshirylajimi**. Adapted Dexamethasone delivery Polyethylene oxide and Poly(α -caprolactone) construct promote Mesenchymal Stem Cells Chondrogenesis. *Artificial Cells, Nanomedicine, and Biotechnology*. DOI: 10.1080/21691401.2016.1276921.
7. Mehran Piran, Seyed Ehsan Enderami, Mehrdad Piran, Hadis Soltani Sedeh, Ehsan Seyedjafari, **Abdolreza Ardeshirylajimi**, Insulin producing cells generation by overexpression of miR-375 in adipose-derived mesenchymal stem cells from diabetic patients, *Biologicals*. DOI: 10.1016/j.biologicals.2016.12.004.
8. Amirhossein Tavakolizadeh, Mehdi Ahmadian, Mohammadhossein Fathi, Ali Doostmohammadi, Ehsan Seyedjafari, **Abdolreza Ardeshirylajimi**. Investigation of

Osteoinductive Effects of Different Compositions of Bioactive Glass Nanoparticles for Bone Tissue Engineering. *ASAIO journal*. doi: 10.1097/MAT.0000000000000509.

9. **Abdolreza Ardeshiryajimi**, Saeed Vakilian, Mohammad Salehi, Human renal tubular cell lines conditioned medium modulate renal differentiation of Human Adipose tissue derived mesenchymal stem cells seeded on nanofibrous scaffolds. *ASAIO Journal*. DOI:10.1097/MAT.0000000000000470.
10. Tarlan Eslami, Saeed Vakilian, Ehsan Seyedjafari, **Abdolreza Ardeshiryajimi**, Masoud Soleimani, Mohammad Salehi, Primordial Germ Cell differentiation of Nuclear Transfer Embryonic Stem Cell using surface modified electro-conductive scaffolds, *In Vitro Cellular & Developmental Biology – Animal*. doi: 10.1007/s11626-016-0113-2.
11. Maryam Mahmoodinia Maymand, Hamid Reza Soleimanpour-lichaei, **Abdolreza Ardeshiryajimi**, Masoud Soleimani, Samaneh Mirzaei, Athena Hajarizadeh, Maryam Kabir Salmani, Hepatogenic Differentiation of Human Induced Pluripotent Stem cells on Collagen Coated Polyethersulfone Nanofibers, *ASAIO Journal*. DOI: 10.1097/MAT.0000000000000469.
12. Reyhaneh Nassiri Mansour, Seyed ehsan Endrami, **Abdolreza Ardeshiryajimi**, Koorosh Fooladsaz, Mojtaba Fthi, Evaluation of Hypoxia Inducible Factor-1alpha gene expression in colorectal cancer stages of Iranian patients. *Journal of Cancer Research and Therapeutics*. doi: 10.4103/0973-1482.199542.
13. Faeze Pournaqi, Armaghan Ghiaee, Saeid Vakilian, **Abdolreza Ardeshiryajimi**. Improved osteoconductivity of PES nanofibers by composite with Polyaniline as a conductive polymer. *Biologicals*. Doi: 10.1016/j.biologicals.2016.09.010.
14. Ram V Roy, **Abdolreza Ardeshiryajimi**, Peyman Dinarvand, Likui Yang and Alireza R. Rezaie, Occupancy of endothelial protein C receptor by protein C induces -arrestin-2 biased PAR1 signaling in endothelial cells by recruiting GPCR kinase 5, *Blood*. 2016, doi: 10.1182/blood-2016-06-720581.
15. Seyed Mahdi Hassanian, **Abdolreza Ardeshiryajimi**, Peyman Dinarvand, and Alireza R. Rezaie, Inorganic polyphosphate promotes cyclin D1 synthesis through activation of mTOR/Wnt/ β -catenin signaling in endothelial cells, *Journal of Thrombosis and Haemostasis*. 2016, doi: 10.1111/jth.13477.
16. Sadegh Lotfalah Moradi, Zahra Hajishafieeh, Shahrzad Nojedehi, Vida Dinarvand, Saeed Hesami Tackalloue, Ram V Roy, **Abdolreza Ardeshiryajimi**, Masoud Soleimani, Collagen-graft mixed cellulose esters membrane maintains undifferentiated morphology and markers of potential pluripotency in feeder-free culture of Induced pluripotent stem cells, *Biologicals*. DOI: 10.1016/j.biologicals.2016.05.007.
17. Samaneh Moghadasi Boroujeni, Shohreh Mashayekhan, Saeid Vakilian, **Abdolreza Ardeshiryajimi**, Masoud Soleimani. The synergistic effect of surface topography and sustained release of TGF- β 1 on myogenic differentiation of human mesenchymal

stem cells. Journal of Biomedical Materials Research: Part A. DOI: 10.1002/jbm.a.35686.

18. Rouhollah Ramezanifard, Ehsan Seyedjafari, **Abdolreza Ardeshirylajimi**, Masoud Soleimani, Biomimetic scaffolds containing nanofibers coated with willemite nanoparticles for improvement of stem cell osteogenesis. *Materials Science and Engineering: C*, 2016: doi:10.1016/j.msec.2016.01.089.
19. **Ardeshirylajimi A**, Rafeie F, Zandi-Karimi A, Jaffarabadi GA, Mohammadi-Sangcheshmeh A, Samiei R, Toghdory A, Seyedjafari E, Hashemi SM, Cinar MU, Gastal EL, Fat harvesting site is an important determinant of proliferation and pluripotency of adipose-derived stem cells. *Biologicals* 44 (2016) 12-18.
20. Sadegh Lotfalah Moradi, Gita Eslami, Housein Goudarzi, Zahra Hajishafieha, Masoud Soleimani, Adel Mohammadzadeh, **Abdolreza Ardeshirylajimi**, Role of Helicobacter pylori on cancer of human adipose-derived mesenchymal stem cells and metastasis of tumor cells-an in vitro study. *Tumor Biology*, 2016; 37(3):3371-8.
21. Mohamadyar-Toupanlou F, Vasheghani-Farahani E, Bakhshandeh B, Soleimani M, **Ardeshirylajimi A**, In Vitro and In Vivo investigations on fibronectin coated and hydroxyapatite incorporated scaffolds, *Cell Mol Biol*. 2015;61(4):1-7.
22. Eslami-Arshaghi T, Salehi M, Soleimani M, Golipourmalekabadi M, Mossahebi-Mohammadi M, **Ardeshirylajimi A**, Rajabi H, Lymphoid lineage differentiation potential of mouse nuclear transfer embryonic stem cells. *Biologicals*. 2015, 43(5):349-54.
23. Mohammad Salehi, **Abdolreza Ardeshirylajimi**, Majid Mossahebi-Mohammadi, Zahra Kondori, Masoumeh Jorjani, Oligodendrocyte progenitor cells differentiation of nuclear transferred mouse embryonic stem cells, *Cell Mol Biol*. 2015; 61(2):56-9.
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25. **A. Ardeshirylajimi**, M. Soleimani, Enhanced growth and osteogenic differentiation of Induced Pluripotent Stem cells by Extremely Low-Frequency Electromagnetic Field, *Cell. Mol. Biol*. 2015; 61 (1): 36-41.
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27. Shaneha S, Shokrolahi F, Shokrollahi P, Yeganeh H, Seyedjafari E, **Ardeshirylajimi A**, Omidian H. Improved Immobilization of gelatin on a modified Polyurethane Urea. *Journal of Bioactive and Compatible Polymers* December 2, 2014, doi:10.1177/0883911514558368.

28. Raheleh Safaeijavan, Masoud Soleimani, Adeleh Divsalar, Akram Eidi, **Abdolreza ArdeshiryLajimi**, Comparison of Random and Aligned PCL Nanofibrous Electrospun Scaffolds on Cardiomyocyte Differentiation of Human Adipose-derived Stem Cells, *Iran J Basic Med Sci.* 2014;17(11):903-11.
29. **ArdeshiryLajimi Abdolreza**, Mossahebi-Mohammadi Majid, Vakilian Saeid, Langroudi Lida, Seyedjafari Ehsan, Atashi Amir, Soleimani Masoud, Comparison of Osteogenic Differentiation Potential of Human Adult Stem Cells Loaded on Bioceramic Coated Electrospun Poly (L-lactide) Nanofibers. *Cell Proliferation*, 2015; 48(1):47-58.
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32. Fatemeh Jamshidi-Adegani, Lida Langroudi, Abbas Shafiee, Abdollah Mohammadi-Sangcheshmeh, **Abdolreza ArdeshiryLajimi**, Mansoureh Barzegar, Keyhan Azadmanesh, Mahmood Naderi, Ehsan Arefian, Masoud Soleimani, Mir-302 cluster exhibits tumor suppressor properties on human unrestricted somatic stem cells, *Tumor biology*, 2014; 35(7):6657-64.
33. **ArdeshiryLajimi Abdolreza**, Soleimani Masoud, Hosseinkhani Saman, ParivarKazem, YaghmaiePrichehr, A Comparative Study of Osteogenic Differentiation of Human Induced Pluripotent Stem cells and Adipose Tissue Derived Mesenchymal Stem Cells, *CellJ.*2014; 16(3):235-44.
34. Neda Daei-farshbaf, **Abdolreza ArdeshiryLajimi**, Ehsan Seyedjafari, Abbas Piryaeei, Fatemeh Fadaei Fathabady, Mehdi Hedayati, Mohammad Salehi, Masoud Soleimani, Hamid Nazarian, Sadegh-Lotfalah Moradi, Mohsen Norouziyan, Bioceramic-collagen scaffolds loaded with human adipose-tissue derived stem cells for bone tissue engineering, *mol Biol Rep*, 2014; 41(2):741-9.
35. **Abdolreza ArdeshiryLajimi**, Peyman Dinarvand, Ehsan Seyedjafari, Lida Langroudi, Fatemeh JamshidiAdegani, Masoud Soleimani, Enhanced reconstruction of rat calvarial defects achieved by plasma-treated electrospun scaffolds and induced pluripotent stem cells, *Cell Tissue Res*, 2013; 354(3):849-60.
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- 38. Abdulreza Ardeshiryajimi**, Mostafa Rezaie-Tavirani, Seyed Alireza Mortazavi, Mansoureh Barzegar, Seyed Hasan Moghadamnia and Mohamad Bagher Rezaee, Study of Anticancer Property of Scrophularia striata Extract on the Human Astrocytoma Cell Line (1321), Iranian Journal of Pharametical Research (2010), 9(4): 403-410.
- 39. Abdulreza Ardeshiryajimi**, Majid Farshdousti Hagh, Najmaldin Saki, Esmail Mortaz, Masoud Soleimani, Fakher Rahim, Feasibility of cell therapy in Multiple Sclerosis: A systematic review of 83 studies, International Journal of Hematology Oncology and Stem Cell Research 2013; 7(1): 13-30.
- 40. Maliheh Entezari**, Ahmad Majd, Fathollah Falahian, Sedighe Mehrabian, Mehrad Hashemi and **Abdolreza ArdeshiryLajimi**, Antimutagenicity and Anticancer Effects of Citrus Medica Fruit Juice. Acta Medica Iranica 2009; 47(5): 373-377.
- 41. Armaghan Ghiaee**, Mahnaz Farahmand, Abdolreza Ardeshiryajimi, Incorporated dexamethasone influence in the PEO nanofibers on the proliferation of mesenchymal stem cells, JPS, 2016; 7(2): 30-44.
- 42. Masoud Soleimani**, Hamid Reza Aghayan, Parisa Goodarzi, Majid Farshdousti Hagh, **Abdolreza Ardeshiryajimi**, Najmaldin Saki, Fereshteh Mohamadi Jahani, Abbas Norouzi Javidan, Babak Arjmand, Stem Cell Therapy: Approach for Multiple Sclerosis Treatment, Archives of Neuroscience. 3(1): e21564, DOI: 10.5812/archneurosci.21564.
- 43. Faeze Pournaqi**, Mahnaz Farahmand, **Abdolreza Ardeshiryajimi**. Increase biocompatibility of scaffold made of Polyethersulfone (PES) by combining polyaniline (PANI). JPS, Winter 2016 Vol 7, No1.
- 44. L. Langroudi**, ZM Hasan, **A. Ardeshiryajimi**, M Soleimani, Isolation and characterization of a new cell line from spontaneous mouse mammary tumour, MBL-6, for in vivo cancer studies, veterinary science development, 2015; 5(2).
- 45. Raheleh Safaeijavan**, Masoud Soleimani, Adeleh Divsalar, Akram Eidi, **Abdolreza Ardeshiryajimi**, Biological behavior study of gelatin coated PCL nanofibrous electrospun scaffolds using fibroblasts, JPS. 2014; 5(1): 67-73.
- 46. Seyed Mohammad Mahdavi**, Mostafa Rezaei-Tavirani, Abdolrahim Nikzamir, **Abdolreza Ardeshiryajimi**. 12 Hz electromagnetic field changes stress-related hormones of rat, JPS. 2014; 5(4): 83-88.
- 47. Ardeshiry Lajimi A**, Rezaie Tavirani M, Ahmadi S.S, Entezari M, Mahdavi S.M. Study of antimicrobial activity of Scrophularia striata boiss. Medical Science Journal of Islamic Azad Univesity-Tehran Medical Branch. 2013; 23(3): 190-195.
- 48. Mona Zamanian-Azodi**, **Abdolreza Ardeshiryajimi**, Nayebali Ahmadi, Mohamad Bagher Rezaee, Farid Azizi Jalilian, Reza Khodarahmi, Antibacterial effects of Scrophularia striata seed aqueous extract on staphylococcus aureus, Journal of Paramedical Sciences (JPS) 2013; 4(1): 58-63.
- 49. Zamaninan Azodi M**, **ArdeshiryLajimi A**, Rezaei Tavirani M, Rezaei Tavirani M, Khodarahmi R. Study of Antibiotical Effects of Scrophularia Striata With Tetracyclin

Aqueous Extract on E. Coli in Comparison With Tetracyclin. HBI_Journals. 2013;20(4):127-133.

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51.**Abdulreza Ardeshirylajimi**, Mansoureh Barzegar, Mostafa Rezaie-Tavirani, MehradHashemi, SaeidHeydari, SeyedHasanMoghadamnia, Shiva Kalantari, Effects of Scrophulariastriata extract on human fibroblast cells, Medical science journal of Islamic Azad University Tehran Medical Branch, 2009;19(3):168-172.

CONFERENCE/ABSTRACT

M Mahmoodnia Maryam, M Kabir Salmani, MH Soleimanpour, M Soleimani, **A Ardeshirylajimi**, Enhanced Hepatogenic Differentiation of Induced Pluripotent Stem Cells on Collagen-coated Polyethersulfone Nanofibers. Volume 17, Supplement 1, Summer 2015, Presented at Royan International Twin Congress 11th Congress on Stem Cell Biology & Technology, Pages 39-39.

A. R. Amiri-Nowdije, M. Hosseini-Mazinani, M. Soleimani, M.A Moosavi, F. Sabouni, **A. Ardeshirylajimi**, Antiproliferative and Cytotoxicity Effects of Olive-Derived Polyphenols on MKN45 and AGS Human Gastric Cancer Cell Lines, 1st International and 9th national Biotechnology congress of Islamic Republic of Iran, May 24-26 2015- Shahid Beheshti University, Tehran, Iran.

B Amiri, M Ghollasi, M Kamali, **A Ardeshirylajimi**, Study of Osteoblast Differentiation of Mesenchymal Stem Cells on PESPEG Composite Surface Modified Nanofibers loading with Zn₂SiO₄ Bioceramic Nanoparticles. ICNN2014, COI: ICNN05_726.

Member of Nanomedicine in Diagnosis and Treatment of the Central and Peripheral Nervous System Diseases Panel, Nanomedicine in Diagnosis and Treatment of Hard to Treat Diseases Congress, Avicenna Research Institute, ACECR, 2015, Tehran, Iran.

Cardiomyocyte Differentiation of Human Adipose-derived Stem cells on Random and Aligned PCL nanofibrous scaffolds, **Oral Presentation** in 5th International Conference on the Nano-Structures (ICNS5), 6-9 March 2014, Kish Island, Iran.

Study of Anticancer Property of Scrophulariastriata Extract on the Human Astrocytoma Cell Line (1321), **Oral Presentation** in 10th Iranian Congress of Biochemistry & 3rd International Congress of Biochemistry and Molecular Biology, 16-19 November 2009, Tehran, Iran.

The comparison of non-Michaelis-Menten behavior of adenosine deaminase at physiological and pathological temperatures **Poster Presentation** in 10th Iranian Congress of Biochemistry & 3rd International Congress of Biochemistry and Molecular Biology, 16-19 November 2009, Tehran, Iran.

Protomic Analysis of Aldolase C protein expression in fibroblasts and astrocytes: as a House Keeping gene. **Oral presentation** in the first proteomics congress.2008, Tehran, Iran

TEACHING EXPERIENCE

Stem Cell Isolation & Characterization; Tissue engineering; Animal Modeling

Stem cell technology Research center Workshops. 2013-2015.

Shahid Beheshti University, School of Medicine. 2016-Present.

EDITORIAL BOARD

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