

PERSONAL INFORMATION:

Name: Masoud Soleimani
Date of Birth: 31.8.1970
Place of Birth: Isfahan-Iran
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EDUCATION:

<u>Degree</u>	<u>Institution</u>	<u>Field</u>	<u>Date</u>	<u>Place</u>
B.Sc.	Tehran University	Biology	1996	Tehran, Iran
M.Sc.	Tarbiat Modarres University	Hematology	1999	Tehran, Iran
Ph.D.	Tarbiat Modarres University	Hematology	2004	Tehran, Iran

Teaching Experience:

Molecular Biology to M.Sc students,
Essential cell culture & Hematopoietic cell culture to M.Sc and Ph.D students,
Molecular Hematology and modern Hematology for M.Sc and Ph.D students.
Practical hematology to M.Sc students
Stem Cells and Applications, Ph.D students
Cell Bancking, Ph.D students
Cell and Gene Therapy, Ph.D students

Professional membership

Member of International Society of Stem cell Research

Member of European Hematology Association

Member of Iranian stem cell network

Secretary of Molecular Medicine network in T.M.U Branch 2002-2005

HONORS, AWARDS and RECOGNITION:

۲۳th Razi Research Festival on medical sciences- 2020

16th Razi Research festival on medical sciences (international), 2009

15th Razi Research festival on medical sciences (international), 2008

Outstanding Student Award of Iran (National). 2002

Outstanding Student Award of Iranian scholarship Ph.D students (National) , 2001

Student Year Book award (translation of transfusion medicine and blood banking), 2000

Young investigator award from International society of hematology (ISH) 2002 , Seoul-Korea

Courses/Workshops , attended/organized

First workshop of Bone marrow cell culture and differentiation of hematopoietic stem cell(organized),Jan 28-29 ,2001,Tehran- Iran

First workshop of Isolation and culture of mouse embryonic stem cells(organized),Jan 30-31 ,2001,Tehran- Iran

Application of Nanotechnology in drug delivery(Training course lectures) , September 11-12 ,2005 , Tehran-Iran

Thesis submitted under my supervision

Mina Souf-Zomorrod, Ph.D student (hematology).TMU

Mohammad Reza Mehrabi, Ph.D student (hematology). TMU

Gholamreza Khamisipour, Ph.D student (hematology). TMU

Shaban Alizadeh, Ph.D student (hematology). TMU

Shahram Rbani, Ph.D student (Tissue Engineering), Tehran Medical Science

Vahid Haghpanah, Ph.D student (Molecular Medicine), Tehran Medical Science

Babak Arjamand, Ph.D student (Molecular Medicine), Tehran Medical Science

Hamid Reza Aghaian, Ph.D student (Molecular Medicine), Tehran Medical Science

Mahin Nikougoftar, Ph.D Student(hematology).TMU

Amir Atashi, PhD student (hematology) TMU

Behnaz Bakhshande , Ph.D student (medical biotechnology)- Tehran University

Ehsan seyed Jafari, Ph.D student- Biotechnology – Tehran University

Mahboobeh Kabiri, Ph.D student- Biotechnology – Tehran University

Sepehr Pedram, Ph.d student – Tehran University

Yousef Gheisari, Ph.D student (Medical Biotechnology)- Pasture Institute of Iran

More than 100 Ph.D and MSc. Students

Thesis SUPERVISER:

Maryam Mohammadi, Ph.D Student (Hematology), Tarbiat Modares University,
Neda Dadgar, Ph.D Student (Cell and Molecular Biology), Science and Research
Branche

Hamed Baghdadi, Ph.D Student (Hematology), Tarbiat Modares University,
Asieh Heirani Tabasi, Ph.D Student (Cell Therapy), Tarbiat Modares University,
Homa Zamani, Ph.D Student (Cell Therapy), Tarbiat Modares University,
Adeleh Soltani, Ph.D Student (Biochemistry), Tarbiat Modares University
More than 20 Ph.D and MSc. Students

Postdoctoral Fellows:

Mohammad Adel Ghias, Tarbiat Modares University
Elahe Esmaili, Tarbiat Modares University
Rezvan Mobaseri, Tarbiat Modares University
Amir Hossein Aliyan, Tarbiat Modares University

BOOK (In Persian) ▲

- 1 - Pourfathollah A.A., Soleimani M., Yavari F, Samak H: Textbook of blood banking and Transfusion Medicine. Shahed University Pub, Tehran. 2 vol. 2000.
- 2- Ranjbar R., Rokni M., Salehi A., Soleimani M., Shargh Sh., Javanbakht M: Text book of experimental sciences. Andishe rafie Pub, Tehran. 2005
- 3- Soleimani M., Moezzi L., shahjahani M: Series of educational workshop on Medical sciences Book. Tarbiat modarres uni publication, Tehran. 2002
- 4— Nader Vazife and Masoud Soleimani .Essential of stem cell transplantation, Andishe zohoor pub.2007
- 5-Akbar Gazme . Yosef Mohamadi , Masoud Soleimani. Technology of carbon Nanotube. 2007
- 6- Nader Vazife and Masoud Soleimani. Leukemia Diagnostic. Andishe zohoor pub 2007
- 7- Soleimani Masoud and Najmedin Saki. Hematopoietic stem cells:Red Blood Cell Development. Khoustravi Pub 2008

PUBLICATIONS:

- 1 Zomorrod, M. S., Kouhkan, F., **Soleimani, M.**, Aliyan, A. & Tasharrofi, N. Overexpression of miR-133 decrease primary endothelial cells proliferation and migration via FGFR1 targeting. *Experimental Cell Research* (2018).
- 2 Zamanlui, S., Mahmoudifard, M., **Soleimani, M.**, Bakhshandeh, B., Vasei, M. & Faghihi, S. Enhanced chondrogenic differentiation of human bone marrow mesenchymal stem cells on PCL/PLGA electrospun with different alignments and compositions. *International Journal of Polymeric Materials and Polymeric Biomaterials* **67**, 50-60 (2018).
- 3 Zahir-Jouzani, F., Mahbod, M., **Soleimani, M.**, Vakhshiteh, F., Arefian, E., Shahosseini, S., Dinarvand, R. & Atyabi, F. Chitosan and thiolated chitosan: Novel therapeutic approach for preventing corneal haze after chemical injuries. *Carbohydrate Polymers* **179**, 42-49 (2018).
- 4 Vakilian, S., Norouzi, M., Soufi-Zomorrod, M., Shabani, I., Hosseinzadeh, S. & **Soleimani, M.** L. inermis-loaded nanofibrous scaffolds for wound dressing applications. *Tissue and Cell* **51**, 32-38 (2018).
- 5 Tavakoli, R., Vakilian, S., Jamshidi-Adegani, F., Sharif, S., Ardeshirylajimi, A. & **Soleimani, M.** Prolonged drug release using PCL–TMZ nanofibers induce the apoptotic behavior of U87 glioma cells. *International Journal of Polymeric Materials and Polymeric Biomaterials*, 1-6 (2018).
- 6 Soleimannejad, M., Ebrahimi-Barough, S., **Soleimani, M.**, Nadri, S., Tavangar, S. M., Roohipoor, R., Yazdankhah, M., Bayat, N., Riazi-Esfahani, M. & Ai, J. Fibrin gel as a scaffold for photoreceptor cells differentiation from conjunctiva mesenchymal stem cells in retina tissue engineering. *Artificial Cells, Nanomedicine and Biotechnology* **46**, 805-814 (2018).
- 7 Soleimani, B., Rangzan, K., Larki, E., Shirali, K. & **Soleimani, M.** Gaseous reservoir horizons determination via Vp/Vs and Q-Factor data, Kangan-Dalan Formations, in one of SW Iranian hydrocarbon fields. *Geopersia* **8**, 61-76 (2018).
- 8 Sharif, S., Ghahremani, M. H. & **Soleimani, M.** Delivery of Exogenous miR-124 to Glioblastoma Multiform Cells by Wharton’s Jelly Mesenchymal Stem Cells Decreases Cell Proliferation and Migration, and Confers Chemosensitivity. *Stem Cell Reviews and Reports* **14**, 236-246 (2018).
- 9 Sadeghzade, N., Nouri, M., Nateri, A. S. & **Soleimani, M.** Studying the nanofibrous structure of polycaprolactone scaffold via image processing technique. *Journal of Bionanoscience* **12**, 76-86 (2018).
- 10 Ranjbarvan, P., Mahmoudifard, M., Kehtari, M., Babaie, A., Hamed, S., Mirzaei, S., **Soleimani, M.** & Hosseinzadeh, S. Natural Compounds for Skin Tissue Engineering by Electrospinning of Nylon-Beta Vulgaris. *ASAIO Journal*, 261-269 (2018).
- 11 Rabbani, S., **Soleimani, M.**, Sahebjam, M., Imani, M., Haeri, A., Ghiaseddin, A., Nassiri, S. M., Ardakani, J. M., Rostami, M. T., Jalali, A. & Tafti, S. H. A. Simultaneous delivery of wharton’s jelly mesenchymal stem cells and insulin-like growth factor-1 in acute myocardial infarction. *Iranian Journal of Pharmaceutical Research* **17**, 426-441 (2018).
- 12 Nazari, B., **Soleimani, M.**, Ebrahimi-Barough, S., Enderami, S. E., Kazemi, M., Negahdari, B., Sadroddiny, E. & Ai, J. Overexpression of miR-219 promotes differentiation of human induced pluripotent stem cells into pre-oligodendrocyte. *Journal of Chemical Neuroanatomy* **91**, 8-16 (2018).

- 13 Nassiri Mansour, R., Barati, G., **Soleimani, M.**, Ghoraieian, P., Nouri Aleagha, M., Kehtari, M., Mahboudi, H., Hosseini, F., Hassannia, H., Abazari, M. F. & Enderami, S. E. Generation of high-yield insulin producing cells from human-induced pluripotent stem cells on polyethersulfone nanofibrous scaffold. *Artificial Cells, Nanomedicine and Biotechnology*, 1-7 (2018).
- 14 Mousavi, S. H., Abroun, S., **Soleimani, M.** & Mowla, S. J. 3-Dimensional nano-fibre scaffold for ex vivo expansion of cord blood haematopoietic stem cells. *Artificial Cells, Nanomedicine and Biotechnology* **46**, 740-748 (2018).
- 15 Mani-Varnosfaderani, A., **Soleimani, M.** & Alizadeh, N. Least Absolute Shrinkage and Selection Operator as a Multivariate Calibration Tool for Simultaneous Determination of Diphenylamine and its Nitro Derivatives in Propellants. *Propellants, Explosives, Pyrotechnics* **43**, 379-389 (2018).
- 16 Mahmoudifard, M., Vossoughi, M., Soudi, S. & **Soleimani, M.** Electrospun polyethersulfone nanofibrous membrane as novel platform for protein immobilization in microfluidic systems. *Journal of Biomedical Materials Research - Part B Applied Biomaterials* **106**, 1108-1120 (2018).
- 17 Mahmoodinia Maymand, M., Soleimanpour-lichaei, H. R., Ardeshirylajimi, A., **Soleimani, M.**, Enderami, S. E., Nojehdehi, S., Behjati, F. & Kabir Salmani, M. Improvement of hepatogenic differentiation of iPS cells on an aligned polyethersulfone compared to random nanofibers. *Artificial Cells, Nanomedicine and Biotechnology* **46**, 853-860 (2018).
- 18 Mahboudi, H., **Soleimani, M.**, Enderami, S. E., Kehtari, M., Ardeshirylajimi, A., Eftekhary, M. & Kazemi, B. Enhanced chondrogenesis differentiation of human induced pluripotent stem cells by MicroRNA-140 and transforming growth factor beta 3 (TGF β 3). *Biologicals* **52**, 30-36 (2018).
- 19 Mahboudi, H., Kazemi, B., **Soleimani, M.**, Hanaee-Ahvaz, H., Ghanbarian, H., Bandehpour, M., Enderami, S. E., Kehtari, M. & Barati, G. Enhanced chondrogenesis of human bone marrow mesenchymal Stem Cell (BMSC) on nanofiber-based polyethersulfone (PES) scaffold. *Gene* **643**, 98-106 (2018).
- 20 Kohram, F., Fallah, P., Shamsara, M., Bolandi, Z., Rassoulzadegan, M., **Soleimani, M.** & Ghanbarian, H. Cell type-dependent functions of microRNA-92a. *Journal of Cellular Biochemistry* **119**, 5798-5804 (2018).
- 21 Kehtari, M., Zeynali, B., **Soleimani, M.**, Kabiri, M. & Seyedjafari, E. Fabrication of a co-culture micro-bioreactor device for efficient hepatic differentiation of human induced pluripotent stem cells (hiPSCs). *Artificial Cells, Nanomedicine and Biotechnology*, 1-10 (2018).
- 22 Jafarpour, Z., **Soleimani, M.**, Hosseinkhani, S., Karimi, M. H., Yaghmaei, P., Mobarra, N. & Geramizadeh, B. Efficient production of hepatocyte-like cells from human-induced pluripotent stem cells by optimizing growth factors. *International Journal of Organ Transplantation Medicine* **9**, 77-87 (2018).
- 23 Islami, M., Mortazavi, Y., **Soleimani, M.** & Nadri, S. In vitro expansion of CD 133+ cells derived from umbilical cord blood in poly-L-lactic acid (PLLA) scaffold coated with fibronectin and collagen. *Artificial Cells, Nanomedicine and Biotechnology* **46**, 1025-1033 (2018).
- 24 Houshmand, M., Hagh, M. N., **Soleimani, M.**, Hamidieh, A. A., Abroun, S. & Zarif, M. N. MicroRNA microarray profiling during megakaryocyte differentiation of cord blood CD133+ hematopoietic stem cells. *Cell Journal* **20**, 195-203 (2018).
- 25 Hosseinzadeh, S., Rezayat, S. M., Giaseddin, A., Aliyan, A. & **Soleimani, M.** Microfluidic system for synthesis of nanofibrous conductive hydrogel and muscle differentiation. *Journal of Biomaterials Applications* **32**, 853-861 (2018).
- 26 Hatamie, S., Parseh, B., Ahadian, M. M., Naghdabadi, F., Saber, R. & **Soleimani, M.**

- Heat transfer of PEGylated cobalt ferrite nanofluids for magnetic fluid hyperthermia therapy: In vitro cellular study. *Journal of Magnetism and Magnetic Materials* **462**, 185-194 (2018).
- 27 Hashemi, J., Pasalar, P., **Soleimani, M.**, Khorramirouz, R., Fendereski, K., Enderami, S. E. & Kajbafzadeh, A. M. Application of a novel bioreactor for in vivo engineering of pancreas tissue. *Journal of Cellular Physiology* **233**, 3805-3816 (2018).
- 28 Hashemi, J., Pasalar, P., **Soleimani, M.**, Arefian, E., Khorramirouz, R., Akbarzadeh, A., Ghorbani, F., Enderami, S. E. & Kajbafzadeh, A. M. Decellularized Pancreas Matrix Scaffolds for Tissue Engineering Using Ductal or Arterial Catheterization. *Cells Tissues Organs*, 1-13 (2018).
- 29 Ghorbani, S., Tiraihi, T. & **Soleimani, M.** Differentiation of mesenchymal stem cells into neuron-like cells using composite 3D scaffold combined with valproic acid induction. *Journal of Biomaterials Applications* **32**, 702-715 (2018).
- 30 Ghorbani, S., Eyni, H., Tiraihi, T., Salari Asl, L., **Soleimani, M.**, Atashi, A., Pour Beiranvand, S. & Ebrahimi Warkiani, M. Combined effects of 3D bone marrow stem cell-seeded wet-electrospun poly lactic acid scaffolds on full-thickness skin wound healing. *International Journal of Polymeric Materials and Polymeric Biomaterials*, 1-8 (2018).
- 31 Ghaneialvar, H., Soltani, L., Rahmani, H. R., Lotfi, A. S. & **Soleimani, M.** Characterization and Classification of Mesenchymal Stem Cells in Several Species Using Surface Markers for Cell Therapy Purposes. *Indian Journal of Clinical Biochemistry* **33**, 46-52 (2018).
- 32 Estiri, H., Fallah, A., **Soleimani, M.**, Aliaghaei, A., Karimzadeh, F., Abraki, S. B. & Ghahremani, M. H. Stable Knockdown of Adenosine Kinase by Lentiviral Anti-ADK miR-shRNAs in Wharton's Jelly Stem Cells. *Cell Journal* **20**, 1-9 (2018).
- 33 Esfandiari, M., Sharifi, M., Mohamadyar-Toupkanlou, F., Hanaee-Ahwaz, H., Yousefzadi, M., Jafari, A., Hosseinzadeh, S. & **Soleimani, M.** Correction to: Optimization of cell/tissue culture of *Linum persicum* for production of lignans derivatives including Podophyllotoxin (Plant Cell, Tissue and Organ Culture (PCTOC), (2018), 133, 1, (51-61), 10.1007/s11240-017-1360-y). *Plant Cell, Tissue and Organ Culture* **133**, 63 (2018).
- 34 Esfandiari, M., Sharifi, M., Mohamadyar-Toupkanlou, F., Hanaee-Ahwaz, H., Yousefzadi, M., Jafari, A., Hosseinzadeh, S. & **Soleimani, M.** Optimization of cell/tissue culture of *Linum persicum* for production of lignans derivatives including Podophyllotoxin. *Plant Cell, Tissue and Organ Culture* **133**, 51-61 (2018).
- 35 Enderami, S. E., **Soleimani, M.**, Mortazavi, Y., Nadri, S. & Salimi, A. Generation of insulin-producing cells from human adipose-derived mesenchymal stem cells on PVA scaffold by optimized differentiation protocol. *Journal of Cellular Physiology* **233**, 4327-4337 (2018).
- 36 Enderami, S. E., Kehtari, M., Abazari, M. F., Ghoraeian, P., Nouri Aleagha, M., Soleimanifar, F., **Soleimani, M.**, Mortazavi, Y., Nadri, S., Mostafavi, H. & Askari, H. Generation of insulin-producing cells from human induced pluripotent stem cells on PLLA/PVA nanofiber scaffold. *Artificial Cells, Nanomedicine and Biotechnology*, 1-8 (2018).
- 37 Ebrahimi, A., Atashi, A., **Soleimani, M.**, Mashhadikhan, M., Barahimi, A. & Maghari, A. Anti-invasive and antiproliferative effects of *Pleurotus ostreatus* extract on acute leukemia cell lines. *Journal of Basic and Clinical Physiology and Pharmacology* **29**, 95-102 (2018).
- 38 Didekhani, R., Sohrabi, M. R., Seyedjafari, E., **Soleimani, M.** & Hanaee-Ahwaz, H. Electrospun composite PLLA/Oyster shell scaffold enhances proliferation and osteogenic differentiation of stem cells. *Biologicals* (2018).

- 39 Bazi, Z., Bertacchi, M., Abasi, M., Mohammadi-Yeganeh, S., **Soleimani, M.**, Wagner, N. & Ghanbarian, H. Rn7SK small nuclear RNA is involved in neuronal differentiation. *Journal of Cellular Biochemistry* **119**, 3174-3182 (2018).
- 40 Atashi, A., Islami, M., Mortazavi, Y. & **Soleimani, M.** Homing Genes Expression in Fucosyltransferase VI-Treated Umbilical Cord Blood CD133+ Cells which Expanded on Protein-Coated Nanoscaffolds. *Molecular Biotechnology*, 1-13 (2018).
- 41 Ansari, M., Golzar, M., Baghani, M. & **Soleimani, M.** Shape memory characterization of poly(ϵ -caprolactone) (PCL)/polyurethane (PU) in combined torsion-tension loading with potential applications in cardiovascular stent. *Polymer Testing* **68**, 424-432 (2018).
- 42 Amini Mahabadi, J., Sabzalipoor, H., Kehtari, M., Enderami, E., **Soleimani, M.** & Nikzad, H. Derivation of male germ cells from induced pluripotent stem cells by inducers: A review. *Cytotherapy* **20**, 279-290 (2018).
- 43 Ahmadyan, S., Kabiri, M., Tasharofi, N., Hosseinzadeh, S., Kehtari, M., Zadeh, A. H., **Soleimani, M.**, Farazmand, A. & Hanaee-Ahvaz, H. The osmolyte type affects cartilage associated pathologic marker expression during in vitro mesenchymal stem cell chondrogenesis under hypertonic conditions. *Cellular and Molecular Biology* **6**, 56-61 (2018).
- 44 Tekie, F. S. M., Kiani, M., Zakerian, A., Pilevarian, F., Assali, A., **Soleimani, M.**, Dinarvand, R., Arefian, E., Atashi, A., Amini, M. & Atyabi, F. Nano polyelectrolyte complexes of carboxymethyl dextran and chitosan to improve chitosan-mediated delivery of miR-145. *Carbohydrate Polymers* **159**, 66-75 (2017).
- 45 Tayebi, B., Abrishami, F., Alizadeh, S., Minayi, N., Mohammadian, M., **Soleimani, M.**, Dehghanifard, A., Atwan, H. & Ajami, M. Modulation of microRNAs expression in hematopoietic stem cells treated with sodium butyrate in inducing fetal hemoglobin expression. *Artificial Cells, Nanomedicine and Biotechnology* **45**, 146-156 (2017).
- 46 Tavakoli, R., Vakilian, S., Langroudi, L., Arefian, E., Sahmani, M., **Soleimani, M.** & Jamshidi-Adegani, F. The role of miR-17-92 cluster in the expression of tumor suppressor genes in unrestricted somatic stem cells. *Biologicals* **46**, 143-147 (2017).
- 47 Tasharofi, N., Kouhkan, F., **Soleimani, M.**, Soheili, Z. S., Kabiri, M., Mahmoudi Saber, M. & Dorkoosh, F. A. Survival Improvement in Human Retinal Pigment Epithelial Cells via Fas Receptor Targeting by miR-374a. *Journal of Cellular Biochemistry* **118**, 4854-4861 (2017).
- 48 Tasharofi, N., Kouhkan, F., **Soleimani, M.**, Soheili, Z. S., Atyabi, F., Akbari Javar, H. & Abedin Dorkoosh, F. Efficient gene delivery to primary human retinal pigment epithelial cells: The innate and acquired properties of vectors. *International Journal of Pharmaceutics* **518**, 66-79 (2017).
- 49 Soleimannejad, M., Ebrahimi-Barough, S., Nadri, S., Riazi-Esfahani, M., **Soleimani, M.**, Tavangar, S. M. & Ai, J. Retina tissue engineering by conjunctiva mesenchymal stem cells encapsulated in fibrin gel: Hypotheses on novel approach to retinal diseases treatment. *Medical Hypotheses* **101**, 75-77 (2017).
- 50 Soleimanifar, F., Mortazavi, Y., Nadri, S. & **Soleimani, M.** Conjunctiva derived mesenchymal stem cell (CJMSCs) as a potential platform for differentiation into corneal epithelial cells on bioengineered electrospun scaffolds. *Journal of Biomedical Materials Research - Part A* **105**, 2703-2711 (2017).
- 51 Shirazi, R., Zarnani, A. H., **Soleimani, M.**, Nayernia, K. & Ragerdi Kashani, I. Differentiation of bone marrow-derived stage-specific embryonic antigen 1 positive pluripotent stem cells into male germ cells. *Microscopy Research and Technique* **80**, 430-440 (2017).
- 52 Sharif, S., Ghahremani, M. H. & **Soleimani, M.** Induction of morphological and functional differentiation of human neuroblastoma cells by miR-124. *Journal of*

- Biosciences* **42**, 555-563 (2017).
- 53 Shakhssalim, N., **Soleimani, M.**, Dehghan, M. M., Rasouli, J., Taghizadeh-Jahed, M., Torbati, P. M. & Naji, M. Bladder smooth muscle cells on electrospun poly(ϵ -caprolactone)/poly(L-lactic acid) scaffold promote bladder regeneration in a canine model. *Materials Science and Engineering C* **75**, 877-884 (2017).
- 54 Shahrabi, S., Kaviani, S., **Soleimani, M.**, Pourfathollah, A. A., Bakhshandeh, B., Hajizamani, S. & Saki, N. MicroRNA modulation during the in vitro culture of hematopoietic stem cells prior to transplantation. *Iranian Journal of Medical Sciences* **42**, 40-47 (2017).
- 55 Samimi, H., Fallah, P., Sohi, A. N., Tavakoli, R., Naderi, M., **Soleimani, M.**, Larijani, B. & Haghpanah, V. Precision medicine approach to anaplastic thyroid cancer: Advances in targeted drug therapy based on specific signaling pathways. *Acta Medica Iranica* **55**, 200-208 (2017).
- 56 Saba, F., Saki, N., Khodadi, E. & **Soleimani, M.** Crosstalk between catecholamines and erythropoiesis. *Frontiers in Biology* **12**, 103-115 (2017).
- 57 Razmkhah, F., **Soleimani, M.**, Mehrabani, D., Karimi, M. H., Amini Kafi-abad, S., Ramzi, M., Irvani Saadi, M. & Kakoui, J. Leukemia microvesicles affect healthy hematopoietic stem cells. *Tumor Biology* **39** (2017).
- 58 Ravanshad, M. S., Soleimani, B., Larkee, E. & **Soleimani, M.** Petrophysical evaluation and reservoir quality of ilam formation (late cretaceous), ahvaz oil field, dezful embayment, SW Iran. *Petroleum and Coal* **59**, 135-145 (2017).
- 59 Rashid, Z., **Soleimani, M.**, Ghahremanzadeh, R., Vossoughi, M. & Esmaeili, E. Effective surface modification of MnFe₂O₄@SiO₂@PMIDA magnetic nanoparticles for rapid and high-density antibody immobilization. *Applied Surface Science* **426**, 1023-1029 (2017).
- 60 Rasekhi, M., **Soleimani, M.**, Bakhshandeh, B. & Sadeghizadeh, M. A novel protocol to provide a suitable cardiac model from induced pluripotent stem cells. *Biologicals* **50**, 42-48 (2017).
- 61 Ranjbarvan, P., **Soleimani, M.**, Samadi Kuchaksaraei, A., Ai, J., Faridi Majidi, R. & Verdi, J. Skin regeneration stimulation: the role of PCL-platelet gel nanofibrous scaffold. *Microscopy Research and Technique* **80**, 495-503 (2017).
- 62 Rad, S. M. A. H., Mohammadi-Sangcheshmeh, A., Bamdad, T., Langroudi, L., Atashi, A., Lotfinia, M., Arefian, E., Gastal, E. L. & **Soleimani, M.** Pluripotency crossroads: Junction of transcription factors, epigenetic mechanisms, microRNAs, and long non-coding RNAs. *Current Stem Cell Research and Therapy* **12**, 300-311 (2017).
- 63 Rabbani, S., **Soleimani, M.**, Sahebjam, M., Imani, M., Nassiri, S. M., Atashi, A., Joupari, M. D., Ghiaseddin, A., Latifpour, M. & Tafti, S. H. A. Effects of endothelial and mesenchymal stem cells on improving myocardial function in a sheep animal model. *Journal of Tehran University Heart Center* **12**, 65-71 (2017).
- 64 Rabbani, S., **Soleimani, M.**, Imani, M., Sahebjam, M., Ghiaseddin, A., Nassiri, S. M., Majd Ardakani, J., Tajik Rostami, M., Jalali, A., Mousanassab, B., Kheradmandi, M. & Ahmadi Tafti, S. H. Regenerating Heart Using a Novel Compound and Human Wharton Jelly Mesenchymal Stem Cells. *Archives of Medical Research* **48**, 228-237 (2017).
- 65 Naderi, M., Pazouki, A., Arefian, E., Hashemi, S. M., Jamshidi-Adegani, F., Gholamalamdari, O., Soudi, S., Azadmanesh, K., Samiee, S. M., Merat, S., Fesharaki, M. G., Mondanizadeh, M., Vasei, M. & **Soleimani, M.** Two triacylglycerol pathway genes, CTDNEP1 and LPIN1, are down-regulated by hsa-miR-122-5p in hepatocytes. *Archives of Iranian Medicine* **20**, 165-171 (2017).
- 66 Mossahebi-Mohammadi, M., Atashi, A., Kaviani, S. & **Soleimani, M.** Efficient

- expansion of SALL4-transduced umbilical cord blood derived CD133+hematopoietic stem cells. *Acta Medica Iranica* **55**, 290-296 (2017).
- 67 Mokhtari, M., Anbarlou, A., Atashi, A., **Soleimani, M.** & Rahnema, M. A. Expansion of umbilical cord blood hematopoietic stem cells on biocompatible nanofiber scaffold as co-culture with bone marrow derived mesenchymal stem cells. *Koomesh* **19**, 175-182 (2017).
- 68 Mohammadi, S., Ebrahimi-Mameghani, M., Arefhosseini, S. R., Fallah, P., Jafarabadi, M. A., Zununi, S., **Soleimani, M.**, Dehkordi, M. B. & Ghanbarian, H. Dietary regulation of miR-33b and miR-29a in relationship to metabolic biomarkers of glucose and lipids in obese diabetic women: A randomized clinical controlled study. *Iranian Red Crescent Medical Journal* **19** (2017).
- 69 Mohammadi Ayenehdeh, J., Niknam, B., Rasouli, S., Hashemi, S. M., Rahavi, H., Rezaei, N., **Soleimani, M.**, Liaeiha, A., Niknam, M. H. & Tajik, N. Immunomodulatory and protective effects of adipose tissue-derived mesenchymal stem cells in an allograft islet composite transplantation for experimental autoimmune type 1 diabetes. *Immunology Letters* **188**, 21-31 (2017).
- 70 Mohammadi Amirabad, L., Massumi, M., Shamsara, M., Shabani, I., Amari, A., Mossahebi Mohammadi, M., Hosseinzadeh, S., Vakilian, S., Steinbach, S. K., Khorramizadeh, M. R., **Soleimani, M.** & Barzin, J. Enhanced Cardiac Differentiation of Human Cardiovascular Disease Patient-Specific Induced Pluripotent Stem Cells by Applying Unidirectional Electrical Pulses Using Aligned Electroactive Nanofibrous Scaffolds. *ACS Applied Materials and Interfaces* **9**, 6849-6864 (2017).
- 71 Mohamadyar-Toupkanlou, F., Vasheghani-Farahani, E., Hanaee-Ahvaz, H., **Soleimani, M.**, Dodel, M., Havasi, P., Ardeshirylajimi, A. & Taherzadeh, E. S. Osteogenic Differentiation of MSCs on Fibronectin-Coated and nHA-Modified Scaffolds. *ASAIO Journal* **63**, 684-691 (2017).
- 72 Mohamadali, M., Irani, S., **Soleimani, M.** & Hosseinzadeh, S. PANi/PAN copolymer as scaffolds for the muscle cell-like differentiation of mesenchymal stem cells. *Polymers for Advanced Technologies* **28**, 1078-1087 (2017).
- 73 Mobasser, R., Tian, L., **Soleimani, M.**, Ramakrishna, S. & Naderi-Manesh, H. Bioactive molecules modified surfaces enhanced mesenchymal stem cell adhesion and proliferation. *Biochemical and Biophysical Research Communications* **483**, 312-317 (2017).
- 74 Mobasser, R., Tian, L., **Soleimani, M.**, Ramakrishna, S. & Naderi-Manesh, H. Peptide modified nanofibrous scaffold promotes human mesenchymal stem cell proliferation and long-term passaging. *Materials Science and Engineering C* **84**, 80-89 (2017).
- 75 Mirzaei, S., Karkhaneh, A., **Soleimani, M.**, Ardeshirylajimi, A., Seyyed Zonouzi, H. & Hanaee-Ahvaz, H. Enhanced chondrogenic differentiation of stem cells using an optimized electrospun nanofibrous PLLA/PEG scaffolds loaded with glucosamine. *Journal of Biomedical Materials Research - Part A* **105**, 2461-2474 (2017).
- 76 Mahmoudifard, M., **Soleimani, M.** & Vossoughi, M. Ammonia plasma-treated electrospun polyacrylonitrile nanofibrous membrane: The robust substrate for protein immobilization through glutaraldehyde coupling chemistry for biosensor application. *Scientific Reports* **7** (2017).
- 77 Mahmoodinia Maymand, M., Soleimanpour-Lichaei, H. R., Ardeshirylajimi, A., **Soleimani, M.**, Mirzaei, S., Hajarizadeh, A. & Kabir Salmani, M. Hepatogenic differentiation of human induced pluripotent stem cells on collagen-coated polyethersulfone nanofibers. *ASAIO Journal* **63**, 316-323 (2017).
- 78 Mahmoodi, L., Bazaz, S. R., Mohammadnejad, J., Mehrizi, A. A. & **Soleimani, M.** Size-Tunable alginate nanoparticles synthesis using T-junction microfluidic chip.

- 271-275 (2017).
- 79 Mahboudi, H., **Soleimani, M.**, Enderami, S. E., Kehtari, M., Hanaee- Ahvaz, H., Ghanbarian, H., Bandehpour, M., Nojehdehi, S., Mirzaei, S. & Kazemi, B. The effect of nanofibre-based polyethersulfone (PES) scaffold on the chondrogenesis of human induced pluripotent stem cells. *Artificial Cells, Nanomedicine and Biotechnology*, 1-9 (2017).
- 80 Khorrami, S., Hosseini, A. Z., Mowla, S. J., **Soleimani, M.**, Rakhshani, N. & Malekzadeh, R. MicroRNA-146a induces immune suppression and drug-resistant colorectal cancer cells. *Tumor Biology* **39** (2017).
- 81 Khojasteh, A., Kheiri, L., Behnia, H., Tehranchi, A., Nazeman, P., Nadjmi, N. & **Soleimani, M.** Lateral Ramus Cortical Bone Plate in Alveolar Cleft Osteoplasty with Concomitant Use of Buccal Fat Pad Derived Cells and Autogenous Bone: Phase I Clinical Trial. *BioMed Research International* **2017** (2017).
- 82 Khademi, F., Ai, J., **Soleimani, M.**, Verdi, J., Mohammad Tavangar, S., Sadroddiny, E., Massumi, M. & Mahmoud Hashemi, S. Improved human endometrial stem cells differentiation into functional hepatocyte-like cells on a glycosaminoglycan/collagen-grafted polyethersulfone nanofibrous scaffold. *Journal of Biomedical Materials Research - Part B Applied Biomaterials* **105**, 2516-2529 (2017).
- 83 Houshmand, M., **Soleimani, M.**, Atashi, A., Saglio, G., Abdollahi, M. & Zarif, M. N. Mimicking the Acute Myeloid Leukemia Niche for Molecular Study and Drug Screening. *Tissue Engineering - Part C: Methods* **23**, 72-85 (2017).
- 84 Hosseinzadeh, S., **Soleimani, M.**, Vossoughi, M., Ranjbarvan, P., Hamedi, S., Zamanlui, S. & Mahmoudifard, M. Study of epithelial differentiation and protein expression of keratinocyte-mesenchyme stem cell co-cultivation on electrospun nylon/B. vulgaris extract composite scaffold. *Materials Science and Engineering C* **75**, 653-662 (2017).
- 85 Gorabi, A. M., Tafti, S. H. A., **Soleimani, M.**, Panahi, Y. & Sahebkar, A. Cells, Scaffolds and Their Interactions in Myocardial Tissue Regeneration. *Journal of Cellular Biochemistry* **118**, 2454-2462 (2017).
- 86 Ghiaseddin, A., Pouri, H., **Soleimani, M.**, Vasheghani-Farahani, E., Ahmadi Tafti, H. & Hashemi-Najafabadi, S. Cell laden hydrogel construct on-a-chip for mimicry of cardiac tissue in-vitro study. *Biochemical and Biophysical Research Communications* **484**, 225-230 (2017).
- 87 Ghasemi, S., Razmkhah, F. & **Soleimani, M.** The role of epigenetics in cancer drug resistance. *Journal of Kerman University of Medical Sciences* **24**, 250-258 (2017).
- 88 Ghaneialvar, H., Lotfi, A. S., Arjmand, S., **Soleimani, M.** & Abbas, F. M. Adipose derived mesenchymal stem cells improve diabetic wound healing in mouse animal model: Extracellular matrix remodeling maybe a potential therapeutic usage of stem cells. *Biomedical Research (India)* **28**, 3672-3679 (2017).
- 89 Ghaneialvar, H., Arjmand, S., Lotfi, A. S., **Soleimani, M.** & Abbas, F. M. Influence of adipose derived mesenchymal stem cells on the effective inflammatory factors of diabetic wound healing in animal models. *Journal of Mazandaran University of Medical Sciences* **27**, 12-21 (2017).
- 90 Eyni, H., Ghorbani, S., Shirazi, R., Salari Asl, L., P Beiranvand, S. & **Soleimani, M.** Three-dimensional wet-electrospun poly(lactic acid)/multi-wall carbon nanotubes scaffold induces differentiation of human menstrual blood-derived stem cells into germ-like cells. *Journal of Biomaterials Applications* **32**, 373-383 (2017).
- 91 Esmaeli, S., Allameh, A., Adelipour, M., **Soleimani, M.** & Allameh, M. The impact of oxidative DNA changes and ATM expression on morphological and functional activities on hepatocytes obtained from mesenchymal stem cells. *Biologicals* **47**, 52-58 (2017).

- 92 Esmaeili, E., Ghiass, M. A., Vossoughi, M. & **Soleimani, M.** Hybrid magnetic-DNA directed immobilisation approach for efficient protein capture and detection on microfluidic platforms. *Scientific Reports* **7** (2017).
- 93 Eslami-Arshaghi, T., Vakilian, S., Seyedjafari, E., Ardeshirylajimi, A., **Soleimani, M.** & Salehi, M. Primordial germ cell differentiation of nuclear transfer embryonic stem cells using surface modified electroconductive scaffolds. *In Vitro Cellular and Developmental Biology - Animal* **53**, 371-380 (2017).
- 94 Enderami, S. E., Mortazavi, Y., **Soleimani, M.**, Nadri, S., Biglari, A. & Mansour, R. N. Generation of Insulin-Producing Cells From Human-Induced Pluripotent Stem Cells Using a Stepwise Differentiation Protocol Optimized With Platelet-Rich Plasma. *Journal of Cellular Physiology* **232**, 2878-2886 (2017).
- 95 Ebrahimi, A., Atashi, A., **Soleimani, M.**, Mashhadikhan, M., Barahimi, A. & Kaviani, S. Comparison of anticancer effect of *Pleurotus ostreatus* extract with doxorubicin hydrochloride alone and plus thermotherapy on erythroleukemia cell line. *Journal of Complementary and Integrative Medicine* (2017).
- 96 Dodel, M., Hemmati Nejad, N., Bahrami, S. H., **Soleimani, M.**, Mohammadi Amirabad, L., Hanaee-Ahvaz, H. & Atashi, A. Electrical stimulation of somatic human stem cells mediated by composite containing conductive nanofibers for ligament regeneration. *Biologicals* **46**, 99-107 (2017).
- 97 Davoodian, N., Lotfi, A. S., **Soleimani, M.** & Ghaneialvar, H. The combination of miR-122 overexpression and *Let-7f* silencing induces hepatic differentiation of adipose tissue-derived stem cells. *Cell Biology International* **41**, 1083-1092 (2017).
- 98 Bakhshalizadeh, S., Amidi, F., Alleyassin, A., **Soleimani, M.**, Shirazi, R. & Shabani, N. Modulation of steroidogenesis by vitamin D3 in granulosa cells of the mouse model of polycystic ovarian syndrome. *Systems Biology in Reproductive Medicine* **63**, 150-161 (2017).
- 99 Azedi, F., Kazemnejad, S., Zarnani, A. H., **Soleimani, M.**, Shojaei, A. & Arasteh, S. Comparative capability of menstrual blood versus bone marrow derived stem cells in neural differentiation. *Molecular Biology Reports* **44**, 169-182 (2017).
- 100 Ayenehdeh, J. M., Niknam, B., Hashemi, S. M., Rahavi, H., Rezaei, N., **Soleimani, M.** & Tajik, N. Introducing a new experimental islet transplantation model using biomimetic hydrogel and a simple high yield islet isolation technique. *Iranian Biomedical Journal* **21**, 218-227 (2017).
- 101 Aghdaei, F. H., Soltani, B. M., Dokanehiifard, S., Mowla, S. J. & **Soleimani, M.** Overexpression of hsa-miR-939 follows by NGFR down-regulation and apoptosis reduction. *Journal of Biosciences* **42**, 23-30 (2017).
- 102 Aghamohammadhossein Tajrishi, M., Atashi, A., **Soleimani, M.**, Sajjadi, E., Fallah, P., Kaviani, S. & Abroun, S. Evaluating the expression of long non-coding RNA HOTAIR in patients with chronic myeloid leukemia. *Journal of Zanjan University of Medical Sciences and Health Services* **25**, 58-66 (2017).
- 103 Abasi, M., Kohram, F., Fallah, P., Arashkia, A., **Soleimani, M.**, Zarghami, N. & Ghanbarian, H. Differential Maturation of miR-17 ~ 92 Cluster Members in Human Cancer Cell Lines. *Applied Biochemistry and Biotechnology* **182**, 1540-1547 (2017).
- 104 Zare, M., **Soleimani, M.**, Mohammadian, M., Akbarzadeh, A., Havasi, P. & Zarghami, N. Efficient biotechnological approach for lentiviral transduction of induced pluripotent stem cells. *Artificial Cells, Nanomedicine and Biotechnology* **44**, 743-748 (2016).
- 105 Yousefi, F., Ebtekar, M., Soudi, S., **Soleimani, M.** & Hashemi, S. M. In vivo immunomodulatory effects of adipose-derived mesenchymal stem cells conditioned medium in experimental autoimmune encephalomyelitis. *Immunology Letters* **172**, 94-105 (2016).

- 106 Yaghoobi, M., Hashemi-Najafabadi, S., **Soleimani, M.**, Vasheghani-Farahani, E. & Mousavi, S. M. Osteogenic differentiation and mineralization on compact multilayer nHA-PCL electrospun scaffolds in a perfusion bioreactor. *Iranian Journal of Biotechnology* **14**, 42-49 (2016).
- 107 Veshkini, A., Khadem, A. A., Mohammadi-Sangcheshmeh, A., Alamouti, A. A., **Soleimani, M.** & Gastal, E. L. Linolenic acid improves oocyte developmental competence and decreases apoptosis of in vitro-produced blastocysts in goat. *Zygote* **24**, 537-548 (2016).
- 108 Tavakoli, F., Jaseb, K., Far, M. A. J., **Soleimani, M.**, Khodadi, E. & Saki, N. Evaluation of microRNA-146a expression in acute lymphoblastic leukemia. *Frontiers in Biology* **11**, 53-58 (2016).
- 109 Tavakol, M., Vasheghani-Farahani, E., Mohammadifar, M. A., **Soleimani, M.** & Hashemi-Najafabadi, S. Synthesis and characterization of an in situ forming hydrogel using tyramine conjugated high methoxyl gum tragacanth. *Journal of Biomaterials Applications* **30**, 1016-1025 (2016).
- 110 Tarvirdipour, S., Vasheghani-Farahani, E., **Soleimani, M.** & Bardania, H. Functionalized magnetic dextran-spermine nanocarriers for targeted delivery of doxorubicin to breast cancer cells. *International Journal of Pharmaceutics* **501**, 331-341 (2016).
- 111 Soufi-zomorrod, M., Hajifathali, A., Kouhkan, F., Mehdizadeh, M., Rad, S. M. A. H. & **Soleimani, M.** MicroRNAs modulating angiogenesis: miR-129-1 and miR-133 act as angio-miR in HUVECs. *Tumor Biology* **37**, 9527-9534 (2016).
- 112 **Soleimani, M.**, Aghayan, H. R., Goodarzi, P., Hagh, M. F., Lajimi, A. A., Saki, N., Jahani, F. M., Javidan, A. N. & Arjmand, B. Stem cell therapy –Approach for multiple sclerosis treatment. *Archives of Neuroscience* **3** (2016).
- 113 Siltanen, C., Yaghoobi, M., Haque, A., You, J., Lowen, J., **Soleimani, M.** & Revzin, A. Microfluidic fabrication of bioactive microgels for rapid formation and enhanced differentiation of stem cell spheroids. *Acta Biomaterialia* **34**, 125-132 (2016).
- 114 Shafiee, A., Kabiri, M., Langroudi, L., **Soleimani, M.** & Ai, J. Evaluation and comparison of the in vitro characteristics and chondrogenic capacity of four adult stem/progenitor cells for cartilage cell-based repair. *Journal of Biomedical Materials Research - Part A* **104**, 600-610 (2016).
- 115 Shaer, A., Azarpira, N., Karimi, M. H., **Soleimani, M.** & Dehghan, S. Differentiation of human-induced pluripotent stem cells into insulin-producing clusters by microRNA-7. *Experimental and Clinical Transplantation* **14**, 555-563 (2016).
- 116 Seyyedi, S. S., **Soleimani, M.**, Yaghmaie, M., Ajami, M., Pourbeyranvand, S., Alimoghaddam, K. & Akrami, S. M. Deregulation of miR-1, miR486, and let-7a in cytogenetically normal acute myeloid leukemia: association with NPM1 and FLT3 mutation and clinical characteristics. *Tumor Biology* **37**, 4841-4847 (2016).
- 117 Sanaei-rad, P., Jafarzadeh Kashi, T. S., Seyedjafari, E. & **Soleimani, M.** Enhancement of stem cell differentiation to osteogenic lineage on hydroxyapatite-coated hybrid PLGA/gelatin nanofiber scaffolds. *Biologicals* **44**, 511-516 (2016).
- 118 Saki, N., Abroun, S., **Soleimani, M.**, Kavianpour, M., Shahjahani, M., Mohammadi-Asl, J. & Hajizamani, S. MicroRNA expression in β -Thalassemia and sickle cell disease: A role in the induction of fetal hemoglobin. *Cell Journal* **17**, 583-592 (2016).
- 119 Ramezanifard, R., Seyedjafari, E., Ardeshirylajimi, A. & **Soleimani, M.** Biomimetic scaffolds containing nanofibers coated with willemite nanoparticles for improvement of stem cell osteogenesis. *Materials Science and Engineering C* **62**, 398-406 (2016).
- 120 Pajooohesh, M., Naderi-Manesh, H. & **Soleimani, M.** MicroRNA-145-based differentiation of human mesenchymal stem cells to smooth muscle cells. *Biotechnology Letters* **38**, 1975-1981 (2016).

- 121 Oraee-Yazdani, S., Hafizi, M., Atashi, A., Ashrafi, F., Seddighi, A. S., Hashemi, S. M., Seddighi, A., **Soleimani, M.** & Zali, A. Co-transplantation of autologous bone marrow mesenchymal stem cells and Schwann cells through cerebral spinal fluid for the treatment of patients with chronic spinal cord injury: Safety and possible outcome. *Spinal Cord* **54**, 102-109 (2016).
- 122 Obeidi, N., Pourfathollah, A. A., **Soleimani, M.**, Zarif, M. N. & Kouhkan, F. The effect of Mir-451 upregulation on erythroid lineage differentiation of murine embryonic stem cells. *Cell Journal* **18**, 165-178 (2016).
- 123 Norouzi, M. & **Soleimani, M.** EGF-Loaded Nanofibers for Skin Tissue Engineering. *Nanoscience in Dermatology*, 367-373 (2016).
- 124 Nejati, A., **Soleimani, M.**, Arefian, E., Marashi, S. M., Tabatabaie, H., Farahmand, M., Shoja, Z., Mahmoodi, M., Nategh, R. & Shahmahmoodi, S. The effect of different microRNA backbones on artificial miRNA expression and knockdown activity against HIV-1 replication. *MicroRNA* **5**, 146-151 (2016).
- 125 Nejati, A., Shahmahmoodi, S., Arefian, E., Shoja, Z., Marashi, S. M., Tabatabaie, H., Mollaei-Kandelous, Y., **Soleimani, M.** & Nategh, R. Efficient inhibition of human immunodeficiency virus replication using novel modified microRNA-30a targeting 3'-untranslated region transcripts. *Experimental and Therapeutic Medicine* **11**, 1833-1838 (2016).
- 126 Mortazavi, Y., Sheikhsaran, F., Khamisipour, G., **Soleimani, M.**, Teimuri, A. & Shokri, S. The evaluation of nerve growth factor over expression on neural lineage specific genes in human mesenchymal stem cells. *Cell Journal* **18**, 189-196 (2016).
- 127 Moradi, S. L., Eslami, G., Goudarzi, H., Hajishafieha, Z., **Soleimani, M.**, Mohammadzadeh, A. & Ardeshirylajimi, A. Role of Helicobacter pylori on cancer of human adipose-derived mesenchymal stem cells and metastasis of tumor cells—an in vitro study. *Tumor Biology* **37**, 3371-3378 (2016).
- 128 Mohammadzadeh, A., Pourfathollah, A. A., Shahrokhi, S., Fallah, A., Tahoori, M. T., Amari, A., Forouzandeh, M. & **Soleimani, M.** Evaluation of AD-MSC (adipose-derived mesenchymal stem cells) as a vehicle for IFN- β delivery in experimental autoimmune encephalomyelitis. *Clinical Immunology* **169**, 98-106 (2016).
- 129 Mohammadi-Yeganeh, S., Paryan, M., Arefian, E., Vasei, M., Ghanbarian, H., Mahdian, R., Karimipoor, M. & **Soleimani, M.** MicroRNA-340 inhibits the migration, invasion, and metastasis of breast cancer cells by targeting Wnt pathway. *Tumor Biology* **37**, 8993-9000 (2016).
- 130 Moghadasi Boroujeni, S., Mashayekhan, S., Vakilian, S., Ardeshirylajimi, A. & **Soleimani, M.** 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* **104**, 1610-1621 (2016).
- 131 Mahmoudifard, M., Soudi, S., **Soleimani, M.**, Hosseinzadeh, S., Esmaeili, E. & Vossoughi, M. Efficient protein immobilization on polyethersulfone electrospun nanofibrous membrane via covalent binding for biosensing applications. *Materials Science and Engineering C* **58**, 586-594 (2016).
- 132 Mahmoudifard, M., **Soleimani, M.**, Hatamie, S., Zamanlui, S., Ranjbarvan, P., Vossoughi, M. & Hosseinzadeh, S. The different fate of satellite cells on conductive composite electrospun nanofibers with graphene and graphene oxide nanosheets. *Biomedical Materials (Bristol)* **11** (2016).
- 133 Lotfalah Moradi, S., Hajishafieha, Z., Nojedehi, S., Dinarvand, V., Hesami Tackallou, S., Roy, R. V., Ardeshirylajimi, A. & **Soleimani, M.** Collagen-graft mixed cellulose esters membrane maintains undifferentiated morphology and markers of potential pluripotency in feeder-free culture of induced pluripotent stem cells. *Biologicals* **44**, 387-393 (2016).

- 134 Lahmy, R., **Soleimani, M.**, Sanati, M. H., Behmanesh, M., Kouhkan, F. & Mobarra, N. Pancreatic islet differentiation of human embryonic stem cells by microRNA overexpression. *Journal of Tissue Engineering and Regenerative Medicine* **10**, 527-534 (2016).
- 135 Kiani, M., Mirzazadeh Tekie, F. S., Dinarvand, M., **Soleimani, M.**, Dinarvand, R. & Atyabi, F. Thiolated carboxymethyl dextran as a nanocarrier for colon delivery of hSET1 antisense: In vitro stability and efficiency study. *Materials Science and Engineering C* **62**, 771-778 (2016).
- 136 Khajeniazi, S., Solati, M., Yazdani, Y., **Soleimani, M.** & Kianmehr, A. Synergistic induction of cardiomyocyte differentiation from human bone marrow mesenchymal stem cells by interleukin 1 β and 5-azacytidine. *Biological Chemistry* **397**, 1355-1364 (2016).
- 137 Kalantari, N., Abroun, S., **Soleimani, M.**, Kaviani, S., Azad, M., Eskandari, F. & Habibi, H. Effect of the receptor activator of nuclear factor κ b and RANK ligand on in vitro differentiation of cord blood CD133+ hematopoietic stem cells to osteoclasts. *Cell Journal* **18**, 322-331 (2016).
- 138 Jamshidi-Adegani, F., Seyedjafari, E., Gheibi, N., **Soleimani, M.** & Sahmani, M. Prevention of adhesion bands by ibuprofen-loaded PLGA nanofibers. *Biotechnology progress* **32**, 990-997 (2016).
- 139 Jaberi, E., Rohani, M., Shahidi, G. A., Nafissi, S., Arefian, E., **Soleimani, M.**, Rasooli, P., Ahmadih, H., Daftarian, N., KaramiNejadRanjbar, M., Klotzle, B., Fan, J. B., Turk, C., Steemers, F. & Elahi, E. Identification of mutation in GTPBP2 in patients of a family with neurodegeneration accompanied by iron deposition in the brain. *Neurobiology of Aging* **38**, 216.e211-216.e218 (2016).
- 140 Jaberi, E., Rohani, M., Shahidi, G. A., Nafissi, S., Arefian, E., **Soleimani, M.**, Moghadam, A., Arzenani, M. K., Keramatian, F., Klotzle, B., Fan, J. B., Turk, C., Steemers, F. & Elahi, E. Mutation in ADORA1 identified as likely cause of early-onset parkinsonism and cognitive dysfunction. *Movement Disorders* **31**, 1004-1011 (2016).
- 141 Jaafarpour, Z., **Soleimani, M.**, Hosseinkhani, S., Karimi, M. H., Yaghmaei, P., Mobarra, N. & Geramizadeh, B. Differentiation of definitive endoderm from human induced pluripotent stem cells on hMSCs feeder in a defined medium. *Avicenna Journal of Medical Biotechnology* **8**, 2-8 (2016).
- 142 Hosseinzadeh, S., Rezayat, S. M., Vashegani-Farahani, E., Mahmoudifard, M., Zamanlui, S. & **Soleimani, M.** Nanofibrous hydrogel with stable electrical conductivity for biological applications. *Polymer (United Kingdom)* **97**, 205-216 (2016).
- 143 Hosseinzadeh, S., Mahmoudifard, M., Mohamadyar-Toupkanlou, F., Dodel, M., Hajarizadeh, A., Adabi, M. & **Soleimani, M.** The nanofibrous PAN-PANi scaffold as an efficient substrate for skeletal muscle differentiation using satellite cells. *Bioprocess and Biosystems Engineering* **39**, 1163-1172 (2016).
- 144 Hoseinzadeh, S., Atashi, A., **Soleimani, M.**, Alizadeh, E. & Zarghami, N. MiR-221-inhibited adipose tissue-derived mesenchymal stem cells bioengineered in a nano-hydroxy apatite scaffold. *In Vitro Cellular and Developmental Biology - Animal* **52**, 479-487 (2016).
- 145 Honardoost, M., Arefan, E., **Soleimani, M.**, Soudi, S. & Sarookhani, M. R. Development of insulin resistance through induction of miRNA-135 in C2C12 cells. *Cell Journal* **18**, 353-361 (2016).
- 146 Hesari, Z., **Soleimani, M.**, Atyabi, F., Sharifdini, M., Nadri, S., Warkiani, M. E., Zare, M. & Dinarvand, R. A hybrid microfluidic system for regulation of neural differentiation in induced pluripotent stem cells. *Journal of Biomedical Materials*

- Research - Part A* **104**, 1534-1543 (2016).
- 147 Heidari-Keshel, S., Rezaei-Tavirani, M., Ai, J., **Soleimani, M.**, Ebrahimi, M., Baradaran-Rafii, A., Rahman Zadeh, S., Omidi, R., Roozafzoon, R., Zali, H., Ghanbari, Z. & Khoshzaban, A. Purification and identification of CD146 positive endometrial somatic stem cell from human normal endometrium biopsy and gene expression criteria. *Minerva Biotechnologica* **28**, 208-218 (2016).
- 148 Hajimoradi, M., Hassan, Z. M., Ebrahimi, M., **Soleimani, M.**, Bakhshi, M., Firouzi, J. & Samani, F. S. STAT3 is overactivated in gastric cancer stem-like cells. *Cell Journal* **17**, 617-628 (2016).
- 149 Haghpanah, V., Fallah, P., Tavakoli, R., Naderi, M., Samimi, H., **Soleimani, M.** & Larijani, B. Antisense-miR-21 enhances differentiation/apoptosis and reduces cancer stemness state on anaplastic thyroid cancer. *Tumor Biology* **37**, 1299-1308 (2016).
- 150 Haghpanah, V., Fallah, P., Naderi, M., Tavakoli, R., **Soleimani, M.** & Larijani, B. Cancer stem-like cell behavior in anaplastic thyroid cancer: A challenging dilemma. *Life Sciences* **146**, 34-39 (2016).
- 151 Gheisari, Y., Vasei, M., Shafiee, A., **Soleimani, M.**, Seyedjafari, E., Omidhkoda, A., Langroudi, L. & Ahmadbeigi, N. A three-dimensional scaffold-based system for modeling the bone marrow tissue. *Stem Cells and Development* **25**, 492-498 (2016).
- 152 Ghatreh-Samani, M., Esmaili, N., **Soleimani, M.**, Asadi-Samani, M., Ghatreh-Samani, K. & Shirzad, H. Oxidative stress and age-related changes in T cells: Is thalassemia a model of accelerated immune system aging? *Central European Journal of Immunology* **41**, 116-124 (2016).
- 153 Esmaili, E., **Soleimani, M.**, Shamloo, A., Mahmoudifard, M. & Vossoughi, M. Dual improvement of DNA-directed antibody immobilization utilizing magnetic fishing and a polyamine coated surface. *RSC Advances* **6**, 111210-111216 (2016).
- 154 Esfandiari, N., Arzanani, M. K., **Soleimani, M.**, Kohi-Habibi, M. & Svendsen, W. E. A new application of plant virus nanoparticles as drug delivery in breast cancer. *Tumor Biology* **37**, 1229-1236 (2016).
- 155 Dodel, M., Nejad, N. H., Bahrami, S. H., **Soleimani, M.** & Hanaee-Ahvaz, H. Modifying the mechanical properties of silk nanofiber scaffold by knitted orientation for regenerative medicine applications. *Cellular and Molecular Biology* **62**, 16-25 (2016).
- 156 Dehghan, S., Hesaraki, M., **Soleimani, M.**, Mirnajafi-Zadeh, J., Fathollahi, Y. & Javan, M. Oct4 transcription factor in conjunction with valproic acid accelerates myelin repair in demyelinated optic chiasm in mice. *Neuroscience* **318**, 178-189 (2016).
- 157 Bohlooli, M., Atashi, A., **Soleimani, M.**, Kaviani, S. & Anbarlou, A. Investigating Effects of Acidic pH on Proliferation, Invasion and Drug-Induced Apoptosis in Lymphoblastic Leukemia. *Cancer Microenvironment* **9**, 119-126 (2016).
- 158 Bakhtiari, N., Hosseinkhani, S., **Soleimani, M.**, Hemmati, R., Noori-Zadeh, A., Javan, M. & Tashakor, A. Short-term ursolic acid promotes skeletal muscle rejuvenation through enhancing of SIRT1 expression and satellite cells proliferation. *Biomedicine and Pharmacotherapy* **78**, 185-196 (2016).
- 159 Asri, A., Sabour, J., Atashi, A. & **Soleimani, M.** Homing in hematopoietic stem cells: Focus on regulatory role of CXCR7 on SDF1A/CXCR4 axis. *EXCLI Journal* **15**, 134-143 (2016).
- 160 Anbarlou, A., AkhavanRahnama, M., Atashi, A., **Soleimani, M.**, Arefian, E. & Gallinella, G. Possible involvement of miRNAs in tropism of Parvovirus B19. *Molecular Biology Reports* **43**, 175-181 (2016).
- 161 Amirkhani, M. A., Shoaie-Hassani, A., **Soleimani, M.**, Hejazi, S., Ghalichi, L. & Nilforoushzadeh, M. A. Rejuvenation of facial skin and improvement in the dermal

- architecture by transplantation of autologous stromal vascular fraction: A clinical study. *BioImpacts* **6**, 149-154 (2016).
- 162 Amirkhani, M. A., Mohseni, R., **Soleimani, M.**, Shoaee-Hassani, A. & Nilforoushzadeh, M. A. A rapid sonication based method for preparation of stromal vascular fraction and mesenchymal stem cells from fat tissue. *BioImpacts* **6**, 99-104 (2016).
- 163 Alizadeh, S., Azizi, S. G., **Soleimani, M.**, Farshi, Y. & Khatib, Z. K. The role of MicroRNAs in myeloproliferative neoplasia. *International Journal of Hematology-Oncology and Stem Cell Research* **10**, 172-185 (2016).
- 164 Ahmadvand, M., Noruzinia, M., **Soleimani, M.** & Abroun, S. Comparison of expression signature of histone deacetylases (HDACs) in mesenchymal stem cells from multiple myeloma and normal donors. *Asian Pacific Journal of Cancer Prevention* **17**, 3605-3610 (2016).
- 165 Aghaee-Bakhtiari, S. H., Arefian, E., **Soleimani, M.**, Noorbakhsh, F., Samiee, S. M., Fard-Esfahani, P. & Mahdian, R. Reproducible and reliable real-time PCR assay to measure mature form of MIR-141. *Applied Immunohistochemistry and Molecular Morphology* **24**, 138-143 (2016).
- 166 Adelipour, M., Allameh, A., Tavangar, S. M., Hassan, Z. M. & **Soleimani, M.** Inhibition of breast tumor growth and abnormal angiogenesis in mice treated with endothelial cells and their progenitor mesenchymal stem cells derived from bone marrow. *Neoplasia* **63**, 911-924 (2016).
- 167 Abbasi, N., Hashemi, S. M., Salehi, M., Jahani, H., Mowla, S. J., **Soleimani, M.** & Hosseinkhani, H. Influence of oriented nanofibrous PCL scaffolds on quantitative gene expression during neural differentiation of mouse embryonic stem cells. *Journal of Biomedical Materials Research - Part A* **104**, 155-164 (2016).
- 168 Abasi, M., Bazi, Z., Mohammadi-Yeganeh, S., **Soleimani, M.**, Haghpanah, V., Zargami, N. & Ghanbarian, H. 7SK small nuclear RNA transcription level down-regulates in human tumors and stem cells. *Medical Oncology* **33** (2016).
- 169 Zare, M., **Soleimani, M.**, Akbarzadeh, A., Bakhshandeh, B., Aghaee-Bakhtiari, S. H. & Zarghami, N. A Novel Protocol to Differentiate Induced Pluripotent Stem Cells by Neuronal microRNAs to Provide a Suitable Cellular Model. *Chemical Biology and Drug Design* **86**, 232-238 (2015).
- 170 Veshkini, A., Asadi, H., Khadem, A. A., Mohammadi-Sangcheshmeh, A., Khazabi, S., Aminafshar, M., Deldar, H., **Soleimani, M.** & Cinar, M. U. Effect of Linolenic acid during in vitro maturation of ovine oocytes: embryonic developmental potential and mRNA abundances of genes involved in apoptosis. *Journal of Assisted Reproduction and Genetics* **32**, 653-659 (2015).
- 171 Vakilian, S., Mashayekhan, S., Shabani, I., Khorashadizadeh, M., Fallah, A. & **Soleimani, M.** Structural stability and sustained release of protein from a multilayer nanofiber/nanoparticle composite. *International Journal of Biological Macromolecules* **75**, 248-257 (2015).
- 172 Tekie, F. S. M., Atyabi, F., **Soleimani, M.**, Arefian, E., Atashi, A., Kiani, M., Khoshayand, M. R., Amini, M. & Dinarvand, R. Chitosan polyplex nanoparticle vector for miR-145 expression in MCF-7: Optimization by design of experiment. *International Journal of Biological Macromolecules* **81**, 828-837 (2015).
- 173 Tahoori, M. T., Pourfathollah, A. A., **Soleimani, M.**, Vasheghani-Farahani, E., Mohammadzadeh, A., Amari, A., Hashemi, S. M. & Mossahebi-Mohammadi, M. Fibroblasts feeder niche and Flt3 Ligand as a novel inducer of plasmacytoid dendritic cells development in vitro. *International Immunopharmacology* **24**, 474-480 (2015).
- 174 Solali, S., Kaviani, S., **Soleimani, M.** & Zonubi, Z. Isolation and characterization of mesenchymal stem cells derived from adipose tissue. *Koomesh* **16**, 505-511 (2015).

- 175 Saki, N., Abroun, S., **Soleimani, M.**, Hajizamani, S., Shahjahani, M., Kast, R. E. & Mortazavi, Y. Involvement of MicroRNA in T-Cell differentiation and malignancy. *International Journal of Hematology-Oncology and Stem Cell Research* **9**, 33-49 (2015).
- 176 Saeedinia, A. R., Zeinoddini, M., **Soleimani, M.** & Sadeghizadeh, M. A new method for simultaneous gene deletion and down-regulation in *Brucella melitensis* Rev.1. *Microbiological Research* **170**, 114-123 (2015).
- 177 Saba, F., **Soleimani, M.**, Kaviani, S., Abroun, S., Sayyadipoor, F., Behrouz, S. & Saki, N. G-CSF induces up-regulation of CXCR4 expression in human hematopoietic stem cells by beta-adrenergic agonist. *Hematology* **20**, 462-468 (2015).
- 178 Razmkhah, F., **Soleimani, M.**, Mehrabani, D., Karimi, M. H. & Kafi-Abad, S. A. Leukemia cell microvesicles promote survival in umbilical cord blood hematopoietic stem cells. *EXCLI Journal* **14**, 423-429 (2015).
- 179 Rahnama, M. A., Movassaghpour, A. A., **Soleimani, M.**, Atashi, A., Anbarlou, A. & Asenjan, K. S. MicroRNA-15B target sall4 and diminish in vitro UCB-derived HSCS expansion. *EXCLI Journal* **14**, 601-610 (2015).
- 180 Rahavi, H., Hashemi, S. M., **Soleimani, M.**, Mohammadi, J. & Tajik, N. Adipose tissue-derived mesenchymal stem cells exert in vitro immunomodulatory and beta cell protective functions in streptozotocin-induced diabetic mice model. *Journal of Diabetes Research* **2015** (2015).
- 181 Rafieemehr, H., Kheirandish, M. & **Soleimani, M.** A new two step induction protocol for neural differentiation of human umbilical cord blood-derived mesenchymal stem cells. *Iranian Journal of Blood and Cancer* **7**, 111-116 (2015).
- 182 Rafieemehr, H., Kheirandish, M. & **Soleimani, M.** Improving the neuronal differentiation efficiency of umbilical cord blood-derived mesenchymal stem cells cultivated under appropriate conditions. *Iranian Journal of Basic Medical Sciences* **18**, 1100-1106 (2015).
- 183 Rafieemehr, H., Kheirandish, M. & **Soleimani, M.** Neuroprotective effects of transplanted mesenchymal stromal cells-derived human umbilical cord blood neural progenitor cells in EAE. *Iranian Journal of Allergy, Asthma and Immunology* **14**, 596-604 (2015).
- 184 Piryaeei, A., **Soleimani, M.**, Heidari, M. H., Saheli, M., Rohani, R. & Almasieh, M. Ultrastructural maturation of human bone marrow mesenchymal stem cells-derived cardiomyocytes under alternative induction of 5-azacytidine. *Cell Biology International* **39**, 519-530 (2015).
- 185 Omidkhoda, A., Kaviani, S., **Soleimani, M.**, Nikougoftar, M., Atashi, A., Zonoubi, Z. & Ebrahimi, L. The effect of mimicking the niche of placenta with PLLA scaffold on expansion of hematopoietic stem cells derived from human placenta. *Journal of Zanzan University of Medical Sciences and Health Services* **23**, 17-28 (2015).
- 186 Norouzi, M., Shabani, I., Atyabi, F. & **Soleimani, M.** EGF-loaded nanofibrous scaffold for skin tissue engineering applications. *Fibers and Polymers* **16**, 782-787 (2015).
- 187 Norouzi, M., Shabani, I., Ahvaz, H. H. & **Soleimani, M.** PLGA/gelatin hybrid nanofibrous scaffolds encapsulating EGF for skin regeneration. *Journal of Biomedical Materials Research - Part A* **103**, 2225-2235 (2015).
- 188 Norouzi, M., Boroujeni, S. M., Omidvarkordshouli, N. & **Soleimani, M.** Advances in Skin Regeneration: Application of Electrospun Scaffolds. *Advanced Healthcare Materials* **4**, 1114-1133 (2015).
- 189 Naji, M., Rasouli, J., Shakhssalim, N., Dehghan, M. M. & **Soleimani, M.** Supportive features of a new hybrid scaffold for urothelium engineering. *Archives of Medical Science* **11**, 438-445 (2015).

- 190 Naderi, M., Abdul Tehrani, H., **Soleimani, M.**, Shabani, I. & Hashemi, S. M. A home-brew real-time PCR assay for reliable detection and quantification of mature miR-122. *Applied Immunohistochemistry and Molecular Morphology* **23**, 601-606 (2015).
- 191 Mousavi, S. H., Abroun, S., **Soleimani, M.** & Mowla, S. J. Expansion of human cord blood hematopoietic stem/progenitor cells in three-dimensional Nanoscaffold coated with Fibronectin. *International Journal of Hematology-Oncology and Stem Cell Research* **9**, 18-25 (2015).
- 192 Mohamadyar-Toupanlou, F., Vasheghani-Farahani, E., Bakhshandeh, B., **Soleimani, M.** & Ardehshiryajimi, A. In Vitro and In Vivo investigations on fibronectin coated and hydroxyapatite incorporated scaffolds. *Cellular and Molecular Biology* **61**, 1-7 (2015).
- 193 Mohamadiali, F., Abroun, S., **Soleimani, M.**, Atashi, A. & Kaviani, S. Effects of isoproterenol (Beta-adrenergic agonist) on in vitro differentiation of human mesenchymal stem cells into osteoblasts. *Journal of Zanjan University of Medical Sciences and Health Services* **23**, 1-16 (2015).
- 194 Mobarra, N., Shafiee, A., Rad, S. M. A. H., Tasharrofi, N., Soufi-zomorod, M., Hafizi, M., Movahed, M., kouhkan, F. & **Soleimani, M.** Overexpression of microRNA-16 declines cellular growth, proliferation and induces apoptosis in human breast cancer cells. *In Vitro Cellular and Developmental Biology - Animal* **51**, 604-611 (2015).
- 195 Mirdailami, O., **Soleimani, M.**, Dinarvand, R., Khoshayand, M. R., Norouzi, M., Hajarizadeh, A., Dodel, M. & Atyabi, F. Controlled release of rhEGF and rhbFGF from electrospun scaffolds for skin regeneration. *Journal of Biomedical Materials Research - Part A* **103**, 3374-3385 (2015).
- 196 Mashhadikhan, M., **Soleimani, M.**, Parivar, K. & Yaghmaei, P. ADSCs on PLLA/PCL hybrid nanoscaffold and gelatin modification: Cytocompatibility and mechanical properties. *Avicenna Journal of Medical Biotechnology* **7**, 32-38 (2015).
- 197 Larijani, B., Arjmand, B., Ahmadbeigi, N., Falahzadeh, K., **Soleimani, M.**, Sayahpour, F. A. & Aghayan, H. R. A simple and cost-effective method for isolation and expansion of human fetal pancreas derived mesenchymal stem cells. *Archives of Iranian Medicine* **18**, 770-775 (2015).
- 198 Langroudi, L., Jamshidi-Adegani, F., Shafiee, A., Rad, S. M. A. H., Keramati, F., Azadmanesh, K., Arefian, E. & **Soleimani, M.** MiR-371-373 cluster acts as a tumor-suppressor-miR and promotes cell cycle arrest in unrestricted somatic stem cells. *Tumor Biology* **36**, 7765-7774 (2015).
- 199 Langroudi, L., Hassan, Z. M., **Soleimani, M.** & Hashemi, S. M. Tumor Associated Mesenchymal Stromal Cells Show Higher Immunosuppressive and Angiogenic Properties Compared to Adipose Derived MSCs. *Iranian journal of immunology : IJI* **12**, 226-239 (2015).
- 200 Kouhkan, F., Mobarra, N., Soufi-Zomorrod, M., Keramati, F., Ali Hosseini Rad, S. M., Fathi-Roudsari, M., Tavakoli, R., Hajarizadeh, A., Ziaei, S., Lahmi, R., Hanif, H. & **Soleimani, M.** MicroRNA-129-1 acts as tumour suppressor and induces cell cycle arrest of GBM cancer cells through targeting IGF2BP3 and MAPK1. *Journal of Medical Genetics* **53**, 24-33 (2015).
- 201 Khorashadzadeh, M., **Soleimani, M.**, Khanahmad, H., Fallah, A., Naderi, M. & Khorramizadeh, M. Bypassing the need for pre-sensitization of cancer cells for anticancer TRAIL therapy with secretion of novel cell penetrable form of Smac from hA-MSCs as cellular delivery vehicle. *Tumor Biology* **36**, 4213-4221 (2015).
- 202 Khaksarian, M., Mostafavi, H., **Soleimani, M.**, Karimian, S. M., Ghahremani, M. H., Joghataee, M. T., Khorashadzadeh, M., Aligholi, H., Attari, F. & Hassanzadeh, G. Regulation of connexin 43 and microRNA expression via β 2-adrenoceptor signaling in 1321N1 astrocytoma cells. *Molecular medicine reports* **12**, 1941-1950 (2015).

- 203 Khademi, F., **Soleimani, M.**, Verdi, J., Tavangar, S. M., Sadroddiny, E., Massumi, M. & Ai, J. Corrigendum to Human endometrial stem cells differentiation into functional hepatocyte-like cells [Cell Biol Int, 38 (2014) 825-834]. *Cell Biology International* **39**, 129 (2015).
- 204 Keramati, F., Seyedjafari, E., Fallah, P., **Soleimani, M.** & Ghanbarian, H. 7SK small nuclear RNA inhibits cancer cell proliferation through apoptosis induction. *Tumor Biology* **36**, 2809-2814 (2015).
- 205 Kalanaky, S., Hafizi, M., Fakharzadeh, S., Vasei, M., Langroudi, L., Janzamin, E., Hashemi, S. M., Khayamzadeh, M., **Soleimani, M.**, Akbari, M. E. & Nazaran, M. H. BCc1, the novel antineoplastic nanocomplex, showed potent anticancer effects in vitro and in vivo. *Drug Design, Development and Therapy* **10**, 59-70 (2015).
- 206 Kabiri, M., Oraee-Yazdani, S., Shafiee, A., Hanaee-Ahvaz, H., Dodel, M., Vaseei, M. & **Soleimani, M.** Neuroregenerative effects of olfactory ensheathing cells transplanted in a multi-layered conductive nanofibrous conduit in peripheral nerve repair in rats. *Journal of Biomedical Science* **22** (2015).
- 207 Kabiri, M., Oraee-Yazdani, S., Dodel, M., Hanaee-Ahvaz, H., Soudi, S., Seyedjafari, E., Salehi, M. & **Soleimani, M.** Cytocompatibility of a conductive nanofibrous carbon nanotube/poly (L-lactic acid) composite scaffold intended for nerve tissue engineering. *EXCLI Journal* **14**, 851-860 (2015).
- 208 Jahani, H., Jalilian, F. A., Wu, C. Y., Kaviani, S., **Soleimani, M.**, Abassi, N., Ou, K. L. & Hosseinkhani, H. Controlled surface morphology and hydrophilicity of polycaprolactone toward selective differentiation of mesenchymal stem cells to neural like cells. *Journal of Biomedical Materials Research - Part A* **103**, 1875-1881 (2015).
- 209 Jafarian, A., Taghikani, M., Abroun, S., Allahverdi, A., Lamei, M., Lakpour, N. & **Soleimani, M.** The generation of insulin producing cells from human mesenchymal stem cells by miR-375 and anti-miR-9. *PLoS ONE* **10** (2015).
- 210 Jaberi, E., Rohani, M., Shahidi, G. A., Nafissi, S., Arefian, E., **Soleimani, M.**, Rasooli, P., Ahmadi, H., Daftarian, N., KaramiNejadRanjbar, M., Klotzle, B., Fan, J. B., Turk, C., Steemers, F. & Elahi, E. Identification of mutation in GTPBP2 in patients of a family with neurodegeneration accompanied by iron deposition in the brain. *Neurobiology of Aging* **38**, 216.e211-216.e218 (2015).
- 211 Hosseinzadeh, S., **Soleimani, M.**, Ebrahim, V. F., Ghanbari, H., Arkan, E. & Rezayat, S. M. Detailed mechanism of aniline nucleation into more conductive nanofibers. *Synthetic Metals* **209**, 91-98 (2015).
- 212 Honardoost, M., **Soleimani, M.**, Arefian, E. & Sarookhani, M. R. Expression change of miR-214 and miR-135 during muscle differentiation. *Cell Journal* **17**, 461-470 (2015).
- 213 Heidari-Keshel, S., Rezaei-Tavirani, M., Ai, J., **Soleimani, M.**, Baradaran-Rafii, A., Ebrahimi, M., Roozafzoon, R., Rahmanzadeh, S., Raeisossadati, R., Omid, R. & Ghanbari, Z. Tissue-specific somatic stem-cell isolation and characterization from human endometriosis. Key roles in the initiation of endometrial proliferative disorders. *Minerva Medica* **106**, 95-108 (2015).
- 214 Hashemi, Z. S., Moghadam, M. F. & **Soleimani, M.** Comparison of TGF β R2 down-regulation in expanded HSCs on MBA/DBM scaffolds coated by UCB stromal cells. *In Vitro Cellular and Developmental Biology - Animal* **51**, 495-506 (2015).
- 215 Hagh, M. F., Noruzinia, M., Mortazavi, Y., **Soleimani, M.**, Kaviani, S., Abroun, S., Fard, A. D. & Maymand, M. M. Different methylation patterns of RUNX2, OSX, DLX5 and BSP in osteoblastic differentiation of mesenchymal stem cells. *Cell Journal* **17**, 71-82 (2015).
- 216 Hafizi, M., Hajarizadeh, A., Atashi, A., Kalanaky, S., Fakharzadeh, S., Masoumi, Z., Nazaran, M. H. & **Soleimani, M.** Nanochelating based nanocomplex, GFC7,

- improves quality and quantity of human mesenchymal stem cells during in vitro expansion. *Stem Cell Research and Therapy* **6** (2015).
- 217 Goodarzi, P., Aghayan, H. R., Larijani, B., **Soleimani, M.**, Dehpour, A. R., Sahebjam, M., Ghaderi, F. & Arjmand, B. Stem cell-based approach for the treatment of Parkinson's disease. *Medical Journal of the Islamic Republic of Iran* **29** (2015).
- 218 Ghasemi, S., Mozdarani, H. & **Soleimani, M.** The effect of miR-372 on genome instability in MKN-45 cell line. *Journal of Isfahan Medical School* **32** (2015).
- 219 Ghanati, F., Mohamadalkhani, S., **Soleimani, M.**, Afzalzadeh, R. & Hajnorouzi, A. Change of growth pattern, metabolism, and quality and quantity of maize plants after irrigation with magnetically treated water. *Electromagnetic Biology and Medicine* **34**, 211-215 (2015).
- 220 Gaeini, A. A., Javidi, M., Kordi, M. R., **Soleimani, M.** & Fallahi, A. A. The effect of 8 weeks of high intensity interval training on mir-29 gene family expression and cardiac hypertrophy of healthy male rats. *Journal of Zanjan University of Medical Sciences and Health Services* **23**, 14-24 (2015).
- 221 Fallah, P., Amirizadeh, N., Poopak, B., Toogeh, G., Arefian, E., Kohram, F., Hosseini Rad, S. M. A., Kohram, M., Teimori Naghadeh, H. & **Soleimani, M.** Expression pattern of key microRNAs in patients with newly diagnosed chronic myeloid leukemia in chronic phase. *International Journal of Laboratory Hematology* **37**, 560-568 (2015).
- 222 Fadaeian, G., Shojaosadati, S. A., Kouchakzadeh, H., Shokri, F. & **Soleimani, M.** Targeted delivery of 5-fluorouracil with monoclonal antibody modified bovine serum albumin nanoparticles. *Iranian Journal of Pharmaceutical Research* **14**, 395-405 (2015).
- 223 Eslami-Arshaghi, T., Salehi, M., **Soleimani, M.**, Gholipourmalekabadi, M., Mossahebi-Mohammadi, M., Ardeshirylajimi, A. & Rajabi, H. Lymphoid lineage differentiation potential of mouse nuclear transfer embryonic stem cells. *Biologicals* **43**, 349-354 (2015).
- 224 Eskandari, F., **Soleimani, M.**, Kalantari, N., Azad, M. & Allahverdi, A. Expansion of umbilical cord blood hematopoietic stem cell on biocompatible nanofiber scaffolds: Brief report. *Tehran University Medical Journal* **72**, 789-793 (2015).
- 225 Ekhteraei-Tousi, S., Mohammad-Soltani, B., Sadeghizadeh, M., Mowla, S. J., Parsi, S. & **Soleimani, M.** Inhibitory effect of hsa-miR-590-5p on cardiosphere-derived stem cells differentiation through downregulation of TGFB signaling. *Journal of cellular biochemistry* **116**, 179-191 (2015).
- 226 Dinarvand, M., Kiani, M., Mirzazadeh, F., Esmaeili, A., Mirzaie, Z., **Soleimani, M.**, Dinarvand, R. & Atyabi, F. Oral delivery of nanoparticles containing anticancer SN38 and hSET1 antisense for dual therapy of colon cancer. *International Journal of Biological Macromolecules* **78**, 112-121 (2015).
- 227 Banaei-Esfahani, A., Moazzeni, H., Naseri Nosar, P., Amin, S., Arefian, E., **Soleimani, M.**, Yazdani, S. & Elahi, E. MicroRNAs that target RGS5. *Iranian Journal of Basic Medical Sciences* **18**, 108-114 (2015).
- 228 Bahrebar, M., **Soleimani, M.**, Karimi, M. H., Vahdati, A. & Yaghoobi, R. Generation of islet-like cell aggregates from human adipose tissue-derived stem cells by lentiviral overexpression of PDX-1. *International Journal of Organ Transplantation Medicine* **6**, 61-76 (2015).
- 229 Ardeshirylajimi, A. & **Soleimani, M.** Enhanced growth and osteogenic differentiation of induced pluripotent stem cells by extremely low-frequency electromagnetic field. *Cellular and Molecular Biology* **61**, 36-41 (2015).
- 230 Ardeshirylajimi, A., Mossahebi-Mohammadi, M., Vakilian, S., Langroudi, L., Seyedjafari, E., Atashi, A. & **Soleimani, M.** Comparison of osteogenic differentiation

- potential of human adult stem cells loaded on bioceramic-coated electrospun poly (L-lactide) nanofibres. *Cell Proliferation* **48**, 47-58 (2015).
- 231 Ardehshirylajimi, A., Farhadian, S., Adegani, F. J., Mirzaei, S., Zomorrod, M. S., Langroudi, L., Doostmohammadi, A., Seyedjafari, E. & **Soleimani, M.** Enhanced osteoconductivity of polyethersulphone nanofibres loaded with bioactive glass nanoparticles in in vitro and in vivo models. *Cell Proliferation* **48**, 455-464 (2015).
- 232 Anbarlou, A., Atashi, A., **Soleimani, M.**, AkhavanRahnama, M., Bohlooli, M. & Mossahebi-Mohammadi, M. Differential characteristics of CD133+ and CD133- Jurkat cells. *In Vitro Cellular and Developmental Biology - Animal* **51**, 556-561 (2015).
- 233 Amari, A., Ebtekar, M., Moazzeni, S. M., **Soleimani, M.**, Amirabad, L. M., Tahoori, M. T. & Massumi, M. Investigation of immunomodulatory properties of Human Wharton's Jelly-derived Mesenchymal Stem Cells after lentiviral transduction. *Cellular Immunology* **293**, 59-66 (2015).
- 234 Amari, A., Ebtekar, M., Moazzeni, S. M., **Soleimani, M.**, Amirabad, L. M., Tahoori, M. T. & Massumi, M. In vitro generation of IL-35-expressing human Wharton's Jelly-derived Mesenchymal Stem Cells using lentiviral vector. *Iranian Journal of Allergy, Asthma and Immunology* **14**, 416-426 (2015).
- 235 Allahverdi, A., Abroun, S., Jafarian, A., **Soleimani, M.**, Taghikhani, M. & Eskandari, F. Differentiation of human mesenchymal stem cells into insulin producing cells by using A lentiviral vector carrying PDX1. *Cell Journal* **17**, 231-242 (2015).
- 236 Ajami, M., Atashi, A., **Soleimani, M.** & Kaviani, S. Comparison of miR-24, miR-106a and miR-107. Expression in identical twins of different ages. *Journal of Zanjan University of Medical Sciences and Health Services* **23**, 22-33 (2015).
- 237 Aghaee-Bakhtiari, S. H., Arefian, E., Naderi, M., Noorbakhsh, F., Nodouzi, V., Asgari, M., Fard-Esfahani, P., Mahdian, R. & **Soleimani, M.** MAPK and JAK/STAT pathways targeted by miR-23a and miR-23b in prostate cancer: computational and in vitro approaches. *Tumor Biology* **36**, 4203-4212 (2015).
- 238 Abouhamzeh, B., Salehi, M., Hosseini, A., Masteri-Farahani, A. R., Fadai, F., Heidari, M. H., Nourozian, M., **Soleimani, M.**, Khorashadizadeh, M., Mossahebi-Mohammadi, M. & Mansouri, A. DNA methylation and histone acetylation patterns in cultured bovine adipose tissue-Derived stem cells (BADSCs). *Cell Journal* **16**, 466-475 (2015).
- 239 Tavakol, M., Vasheghani-Farahani, E., **Soleimani, M.**, Mohammadifar, M. A., Hashemi-Najafabadi, S. & Hafizi, M. Synthesis and characterization of an enzyme mediated in situ forming hydrogel based on gum tragacanth for biomedical applications. *Iranian Journal of Biotechnology* **12** (2014).
- 240 Soufivand, A. A., Navidbakhsh, M. & **Soleimani, M.** Is it appropriate to apply Hertz model to describe cardiac myocytes' mechanical properties by atomic force microscopy nanoindentation? *Micro and Nano Letters* **9**, 153-156 (2014).
- 241 Soufivand, A. A., Navidbakhsh, M. & **Soleimani, M.** Mechanical behavior obtaining of cardiac contracting cell, using atomic force microscopy (AFM) and analytical relations. *Journal of Isfahan Medical School* **32**, 947-956 (2014).
- 242 **Soleimani, M.**, Khorsandi, L., Atashi, A. & Nejaddehbashi, F. Chondrogenic differentiation of human umbilical cord blood-derived unrestricted somatic stem cells on a 3D beta-tricalcium phosphate-alginate- gelatin scaffold. *Cell Journal* **16**, 43-52 (2014).
- 243 Shariatzadeh, S. M. A., Hamta, A., **Soleimani, M.**, Fallah Huseini, H. & Samavat, S. The cytotoxic effects of silymarin on the 4T1 cell line derived from BALB/c mice mammary tumors. *Journal of Medicinal Plants* **13**, 55-65 (2014).
- 244 Shariatzadeh, S. M. A., Hamta, A., **Soleimani, M.** & Darvishi, S. Comparison of the

- cytotoxicity of aqueous and ethanolic extracts of saffron (*Crocus sativus* L) with paclitaxel as a chemotherapy drug in breast cancer cell line (4T1). *Journal of Zanjan University of Medical Sciences and Health Services* **22**, 83-95 (2014).
- 245 Shafiee, A., Seyedjafari, E., Sadat Taherzadeh, E., Dinarvand, P., **Soleimani, M.** & Ai, J. Enhanced chondrogenesis of human nasal septum derived progenitors on nanofibrous scaffolds. *Materials Science and Engineering C* **40**, 445-454 (2014).
- 246 Shabani, I., Haddadi-Asl, V., **Soleimani, M.**, Seyedjafari, E. & Hashemi, S. M. Ion-exchange polymer nanofibers for enhanced osteogenic differentiation of stem cells and ectopic bone formation. *ACS Applied Materials and Interfaces* **6**, 72-82 (2014).
- 247 Salimi, A., Nadri, S., Ghollasi, M., Khajeh, K. & **Soleimani, M.** Comparison of different protocols for neural differentiation of human induced pluripotent stem cells. *Molecular Biology Reports* **41**, 1713-1721 (2014).
- 248 Saki, N., Abroun, S., **Soleimani, M.**, Mortazavi, Y., Kaviani, S. & Arefian, E. The roles of miR-146a in the differentiation of Jurkat T-lymphoblasts. *Hematology* **19**, 141-147 (2014).
- 249 Safaeijavan, R., **Soleimani, M.**, Divsalar, A., Eidi, A. & Ardeshtyrlajimi, A. Comparison of random and aligned pcl nanofibrous electrospun scaffolds on cardiomyocyte differentiation of human adipose-derived stem cells. *Iranian Journal of Basic Medical Sciences* **17**, 903-911 (2014).
- 250 Razban, V., Khajeh, S., Lotfi, A. S., Mohsenifar, A., **Soleimani, M.**, Khoshdel, A. & Hashemi, E. Engineered heparan sulfate-collagen iv surfaces improve human mesenchymal stem cells differentiation to functional hepatocyte-like cells. *Journal of Biomaterials and Tissue Engineering* **4**, 811-822 (2014).
- 251 Rashidi, L., Vasheghani-Farahani, E., **Soleimani, M.**, Atashi, A., Rostami, K., Gangi, F., Fallahpour, M. & Tahouri, M. T. A cellular uptake and cytotoxicity properties study of gallic acid-loaded mesoporous silica nanoparticles on Caco-2 cells. *Journal of Nanoparticle Research* **16** (2014).
- 252 Motlagh, M. K., Sharafi, M., Zhandi, M., Mohammadi-Sangcheshmeh, A., Shakeri, M., **Soleimani, M.** & Zeinoaldini, S. Antioxidant effect of rosemary (*Rosmarinus officinalis* L.) extract in soybean lecithin-based semen extender following freeze-thawing process of ram sperm. *Cryobiology* **69**, 217-222 (2014).
- 253 Mostafavi, H., Khaksarian, M., Joghataei, M. T., **Soleimani, M.**, Hassanzadeh, G., Eftekhari, S., Mousavizadeh, K., Estiri, H., Ahmadi, S. & Hadjighassem, M. R. Selective β_2 adrenergic agonist increases Cx43 and miR-451 expression via cAMP-Epac. *Molecular Medicine Reports* **9**, 2405-2410 (2014).
- 254 Mostafavi, H., Khaksarian, M., Joghataei, M. T., Hassanzadeh, G., **Soleimani, M.**, Eftekhari, S., Mousavizadeh, K. & Hadjighassem, M. R. Fluoxetine upregulates connexin 43 expression in astrocyte. *Basic and Clinical Neuroscience* **5**, 74-79 (2014).
- 255 Mohammadzadeh, A., Pourfathollah, A. A., Shahrokhi, S., Hashemi, S. M., Moradi, S. L. A. & **Soleimani, M.** Immunomodulatory effects of adipose-derived mesenchymal stem cells on the gene expression of major transcription factors of T cell subsets. *International Immunopharmacology* **20**, 316-321 (2014).
- 256 Mohammadi-Sangcheshmeh, A., Veshkini, A., Hajarizadeh, A., Jamshidi-Adegani, F., Zhandi, M., Abazari-Kia, A. H., Cinar, M. U., **Soleimani, M.** & Gastal, E. L. Association of glucose-6-phosphate dehydrogenase activity with oocyte cytoplasmic lipid content, developmental competence, and expression of candidate genes in a sheep model. *Journal of Assisted Reproduction and Genetics* **31**, 1089-1098 (2014).
- 257 Mobarra, N., **Soleimani, M.**, Kouhkan, F., Hesari, Z., Lahmy, R., Mossahebi-Mohammadi, M., Arefian, E., Jaafarpour, Z., Nasiri, H., Pakzad, R., Tavakoli, R. & Pasalar, P. Efficient differentiation of human induced pluripotent stem cell (hiPSC)

- derived hepatocyte-like cells on hMSCs feeder. *International Journal of Hematology-Oncology and Stem Cell Research* **8**, 20-29 (2014).
- 258 Mirdailami, O., Khoshayand, M. R., **Soleimani, M.**, Dinarvand, R. & Atyabi, F. Release optimization of epidermal growth factor from PLGA microparticles. *Pharmaceutical Development and Technology* **19**, 539-547 (2014).
- 259 Minayi, N., Alizadeh, S., Dargahi, H., **Soleimani, M.**, Kashani Khatib, Z., Tayebi, B., Mohammadian, M., Alijani, S. & Karami, F. The effect of miR-210 Up-regulation on proliferation and survival of mouse bone marrow derived mesenchymal stem cell. *International Journal of Hematology-Oncology and Stem Cell Research* **8**, 15-23 (2014).
- 260 Mehrabi, M. R., **Soleimani, M.**, Abroun, S., Vasei, M. & Moghadasi, M. H. Designing and constructing the microfluidic system and evaluating its ability to produce IL-2 by jurkat cells. *Journal of Mazandaran University of Medical Sciences* **24**, 74-83 (2014).
- 261 Massumi, M., Hoveizi, E., Baktash, P., Hooti, A., Ghazizadeh, L., Nadri, S., Pourasgari, F., Hajarizadeh, A., **Soleimani, M.**, Nabiuni, M. & Khorramizadeh, M. R. Efficient programming of human eye conjunctiva-derived induced pluripotent stem (ECiPS) cells into definitive endoderm-like cells. *Experimental Cell Research* **322**, 51-61 (2014).
- 262 Lahmy, R., **Soleimani, M.**, Sanati, M. H., Behmanesh, M., Kouhkan, F. & Mobarra, N. MiRNA-375 promotes beta pancreatic differentiation in human induced pluripotent stem (hiPS) cells. *Molecular Biology Reports* **41**, 2055-2066 (2014).
- 263 Kouhkan, F., Hafizi, M., Mobarra, N., Mossahebi-Mohammadi, M., Mohammadi, S., Behmanesh, M., Soufi Zomorrod, M., Alizadeh, S., Lahmy, R., Daliri, M. & **Soleimani, M.** miRNAs: A new method for erythroid differentiation of hematopoietic stem cells without the presence of growth factors. *Applied Biochemistry and Biotechnology* **172**, 2055-2069 (2014).
- 264 Khoshgard, K., Hashemi, B., Arbabi, A., Rasaei, M. J. & **Soleimani, M.** Radiosensitization effect of folate-conjugated gold nanoparticles on HeLa cancer cells under orthovoltage superficial radiotherapy techniques. *Physics in Medicine and Biology* **59**, 2249-2263 (2014).
- 265 Khanmohammadi, M., Khanjani, S., Edalatkhah, H., Zarnani, A. H., Heidari-Vala, H., **Soleimani, M.**, Alimoghaddam, K. & Kazemnejad, S. Modified protocol for improvement of differentiation potential of menstrual blood-derived stem cells into adipogenic lineage. *Cell Proliferation* **47**, 615-623 (2014).
- 266 Khademi, F., Verdi, J., **Soleimani, M.**, Roozafzoon, R., Keshel, S. H., Raeisossadati, R. & Ai, J. Human endometrial adult stem cells can be differentiated into hepatocyte cells. *Journal of Medical Hypotheses and Ideas* **8**, 30-33 (2014).
- 267 Khademi, F., **Soleimani, M.**, Verdi, J., Tavangar, S. M., Sadroddiny, E., Masumi, M. & Ai, J. Human endometrial stem cells differentiation into functional hepatocyte-like cells. *Cell Biology International* **38**, 825-834 (2014).
- 268 Kenarkoohi, A., **Soleimani, M.**, Bamdad, T., Soleimanjahi, H., Estiri, H. & Razavi-Nikoo, M. H. Efficient lentiviral transduction of adipose tissue-derived mouse mesenchymal stem cells and assessment of their penetration in female mice cervical tumor model. *Iranian Journal of Cancer Prevention* **7**, 225-231 (2014).
- 269 Kashani, I. R., Zarnani, A. H., **Soleimani, M.**, Abdolvahabi, M. A., Nayernia, K. & Shirazi, R. Retinoic acid induces mouse bone marrow-derived CD15+, Oct4+ and CXCR4+ stem cells into male germ-like cells in a two-dimensional cell culture system. *Cell Biology International* **38**, 782-789 (2014).
- 270 Jamshidi-Adegani, F., Langroudi, L., Shafiee, A., Mohammadi-Sangcheshmeh, A., Ardeshirylajimi, A., Barzegar, M., Azadmanesh, K., Naderi, M., Arefian, E. &

- Soleimani, M.** Mir-302 cluster exhibits tumor suppressor properties on human unrestricted somatic stem cells. *Tumor Biology* **35**, 6657-6664 (2014).
- 271 Jahanpanah, M., Pourasgari, F., Mohammadi-Sangcheshmeh, A., Ardeshiryajimi, A., Azarnia, M., Sharifi, S. D. & **Soleimani, M.** Pluripotency properties of embryonic stem cells isolated from stage X blastoderm of Mazandaran native chicken. *Cellular and Molecular Biology* **60**, 8-15 (2014).
- 272 Jafary, H., Ahmadian, S. & **Soleimani, M.** The enhanced apoptosis and antiproliferative response to combined treatment with valproate and nicotinamide in MCF-7 breast cancer cells. *Tumor Biology* **35**, 2701-2710 (2014).
- 273 Jafary, H., Ahmadian, S. & **Soleimani, M.** Synergistic anticancer activity of valproate combined with nicotinamide enhances anti-proliferation response and apoptosis in MIAPaca2 cells. *Molecular Biology Reports* **41**, 3801-3812 (2014).
- 274 Jafarian, A., Taghikhani, M., Abroun, S., Pourpak, Z., Allahverdi, A. & **Soleimani, M.** Generation of high-yield insulin producing cells from human bone marrow mesenchymal stem cells. *Molecular Biology Reports* **41**, 4783-4794 (2014).
- 275 Hosseinzadeh, S., **Soleimani, M.**, Rezayat, S. M., Ai, J. & Vasei, M. The activation of satellite cells by nanofibrous poly ϵ -caprolacton constructs. *Journal of Biomaterials Applications* **28**, 801-812 (2014).
- 276 Honardoost, M., Sarookhani, M. R., Arefian, E. & **Soleimani, M.** Insulin resistance associated genes and miRNAs. *Applied biochemistry and biotechnology* **174**, 63-80 (2014).
- 277 Havasi, P., **Soleimani, M.**, Morovvati, H., Bakhshandeh, B. & Nabiuni, M. The proliferation study of hips cell-derived neuronal progenitors on poly-caprolactone scaffold. *Basic and Clinical Neuroscience* **5**, 117-123 (2014).
- 278 Hajizadeh-Sikaroodi, S., Hosseini, A., Fallah, A., Estiri, H., Noormohammadi, Z., Salehi, M., Ghaderian, S. M. H., Niaki, H. A., **Soleimani, M.** & Kazemi, B. Lentiviral mediating genetic engineered mesenchymal stem cells for releasing IL-27 as a gene therapy approach for autoimmune diseases. *Cell Journal* **16**, 255-262 (2014).
- 279 Hajifathali, A., Saba, F., Atashi, A., **Soleimani, M.**, Mortaz, E. & Rasekhi, M. The role of catecholamines in mesenchymal stem cell fate. *Cell and Tissue Research* **358**, 651-665 (2014).
- 280 Goodarzi, P., Arjmand, B., Emami-Razavi, S. H., **Soleimani, M.**, Khodadadi, A., Mohamadi-Jahani, F. & Aghayan, H. R. Human autologous serum as a substitute for fetal bovine serum in human schwann cell culture. *Acta Medica Iranica* **52**, 241-245 (2014).
- 281 Goodarzi, P., Aghayan, H. R., **Soleimani, M.**, Norouzi-Javidan, A., Mohamadi-Jahani, F., Jahangiri, S., Emami-Razavi, S. H., Larijani, B. & Arjmand, B. Stem cell therapy for treatment of epilepsy. *Acta Medica Iranica* **52**, 651-655 (2014).
- 282 Gholami, Z., Najafabadi, S. H. & **Soleimani, M.** Simultaneous camouflage of major and minor antigens on red blood cell surface with activated mPEGs. *Iranian Journal of Biotechnology* **12** (2014).
- 283 Esmaeli, S., Allameh, A., **Soleimani, M.**, Rahbarizadeh, F. & Frouzandeh-Moghadam, M. The role of albumin and PPAR- α in differentiation-dependent change of fatty acid profile during differentiation of mesenchymal stem cells to hepatocyte-like cells. *Cell Biochemistry and Function* **32**, 410-419 (2014).
- 284 Ehteram, H., Bavarsad, M. S., Mokhtari, M., Saki, N., **Soleimani, M.**, Parizadeh, S. M. R. & Mobarra, N. Prooxidant-antioxidant balance and hs-CRP in patients with β -thalassemia major. *Clinical Laboratory* **60**, 207-215 (2014).
- 285 Dehghan, S., Asadi, S., Hajikaram, M., **Soleimani, M.**, Mowla, S. J., Fathollahi, Y., Ahmadiani, A. & Javan, M. Exogenous Oct4 in combination with valproic acid increased neural progenitor markers: An approach for enhancing the repair potential

- of the brain. *Life Sciences* **122**, 108-115 (2014).
- 286 Davoodian, N., Lotfi, A. S., **Soleimani, M.** & Mowla, S. J. MicroRNA-122 overexpression promotes hepatic differentiation of human adipose tissue-derived stem cells. *Journal of Cellular Biochemistry* **115**, 1582-1593 (2014).
- 287 Davoodian, N., Lotfi, A. S., **Soleimani, M.**, Mola, S. J. & Arjmand, S. Let-7f microRNA negatively regulates hepatic differentiation of human adipose tissue-derived stem cells. *Journal of Physiology and Biochemistry* **70**, 781-789 (2014).
- 288 Daei-farshbaf, N., Ardeshirylajimi, A., Seyedjafari, E., Piryaeei, A., Fadaei Fathabady, F., Hedayati, M., Salehi, M., **Soleimani, M.**, Nazarian, H., Moradi, S. L. & Norouzian, M. Bioceramic-collagen scaffolds loaded with human adipose-tissue derived stem cells for bone tissue engineering. *Molecular Biology Reports* **41**, 741-749 (2014).
- 289 Ardeshirylajimi, A., **Soleimani, M.**, Hosseinkhani, S., Parivar, K. & Yaghmaei, P. A comparative study of osteogenic differentiation human induced pluripotent stem cells and adipose tissue derived mesenchymal stem cells. *Cell Journal* **16**, 235-244 (2014).
- 290 Amiri, F., Halabian, R., Salimian, M., Shokrgozar, M. A., **Soleimani, M.**, Jahanian-Najafabadi, A. & Roudkenar, M. H. Induction of multipotency in umbilical cord-derived mesenchymal stem cells cultivated under suspension conditions. *Cell stress & chaperones* **19**, 657-666 (2014).
- 291 Alijani, S., Alizadeh, S., Kazemi, A., Kashani Khatib, Z., **Soleimani, M.**, Rezvani, M., Minayi, N., Karami, F. & Tayebi, B. Evaluation of the effect of miR-26b up-regulation on HbF expression in erythroleukemic K-562 cell line. *Avicenna Journal of Medical Biotechnology* **6**, 53-56 (2014).
- 292 Ahmadvand, M., Noruzinia, M., Dehghani Fard, A., Montazer Zohour, M., Amin Tabatabaiefar, M., **Soleimani, M.**, Kaviani, S., Abroun, S., Beiranvand, S. & Saki, N. The role of epigenetics in the induction of fetal hemoglobin: A combination therapy approach. *International Journal of Hematology-Oncology and Stem Cell Research* **8**, 9-14 (2014).
- 293 Aghayan, H. R., **Soleimani, M.**, Goodarzi, P., Norouzi-Javidan, A., Emami-Razavi, S. H., Larijani, B. & Arjmand, B. Magnetic resonance imaging of transplanted stem cell fate in stroke. *Journal of Research in Medical Sciences* **19**, 465-471 (2014).
- 294 Adegani, F. J., Langroudi, L., Ardeshirylajimi, A., Dinarvand, P., Dodel, M., Doostmohammadi, A., Rahimian, A., Zohrabi, P., Seyedjafari, E. & **Soleimani, M.** Coating of electrospun poly(lactic-co-glycolic acid) nanofibers with willemite bioceramic: Improvement of bone reconstruction in rat model. *Cell Biology International* **38**, 1271-1279 (2014).
- 295 Abbasi, N., Soudi, S., Hayati-Roodbari, N., Dodel, M. & **Soleimani, M.** The effects of plasma treated electrospun nanofibrous poly (ϵ -caprolactone) Scaffolds with different orientations on mouse embryonic stem cell proliferation. *Cell Journal* **16**, 245-254 (2014).
- 296 Ziraksaz, Z., Nomani, A., **Soleimani, M.**, Bakhshandeh, B., Arefian, E., Haririan, I. & Tabbakhian, M. Evaluation of cationic dendrimer and lipid as transfection reagents of short RNAs for stem cell modification. *International Journal of Pharmaceutics* **448**, 231-238 (2013).
- 297 Ziraksaz, Z., Nomani, A., Ruponen, M., **Soleimani, M.**, Tabbakhian, M. & Haririan, I. Cell-surface glycosaminoglycans inhibit intranuclear uptake but promote post-nuclear processes of polyamidoamine dendrimer-pDNA transfection. *European Journal of Pharmaceutical Sciences* **48**, 55-63 (2013).
- 298 Yousefi, F., Ebtekar, M., **Soleimani, M.**, Soudi, S. & Hashemi, S. M. Comparison of in vivo immunomodulatory effects of intravenous and intraperitoneal administration of adipose-tissue mesenchymal stem cells in experimental autoimmune

- encephalomyelitis (EAE). *International Immunopharmacology* **17**, 608-616 (2013).
- 299 Yazdani, S. O., Hafizi, M., Zali, A. R., Atashi, A., Ashrafi, F., Seddighi, A. S. & **Soleimani, M.** Safety and possible outcome assessment of autologous Schwann cell and bone marrow mesenchymal stromal cell co-transplantation for treatment of patients with chronic spinal cord injury. *Cytotherapy* **15**, 782-791 (2013).
- 300 Veshkini, A., Khadem, A. A., **Soleimani, M.**, Jahanbin, R., Salehi, M., Alamouti, A. A., Salehi, A., Schellander, K., Hoelker, M. & Mohammadi-Sangcheshmeh, A. Erratum: Exogenous linolenic acid in oocyte maturation media promotes nuclear maturation and parthenogenetic preimplantation embryonic development in the goat (Reproduction, Fertility and Development (2013) 25 (587) DOI: 10.1071/RDv25n1Ab264). *Reproduction, Fertility and Development* **25**, 587 (2013).
- 301 Soufizomorrod, M., **Soleimani, M.**, Hajifathali, A., Mossahebi Mohammadi, M. & Abroun, S. Expansion of cd133+ umbilical cord blood derived hematopoietic stem cells on a biocompatible microwells. *International Journal of Hematology-Oncology and Stem Cell Research* **7**, 8-12 (2013).
- 302 Soudi, S., Zavarán-Hosseini, A., Hassan, Z. M., **Soleimani, M.**, Adegani, F. J. & Hashemi, S. M. Comparative study of the effect of LPS on the function of BALB/c and C57BL/6 peritoneal macrophages. *Cell Journal* **15**, 45-54 (2013).
- 303 Shakhssalim, N., Rasouli, J., Moghadasali, R., Aghdas, F. S., Naji, M. & **Soleimani, M.** Bladder smooth muscle cells interaction and proliferation on PCL/PLLA electrospun nanofibrous scaffold. *International Journal of Artificial Organs* **36**, 113-120 (2013).
- 304 Samimi, H., Zaki dizaji, M., Ghadami, M., Shahzadeh fazeli, A., Khashayar, P., **Soleimani, M.**, Larijani, B. & Haghpanah, V. MicroRNAs networks in thyroid cancers: Focus on miRNAs related to the fascin. *Journal of Diabetes and Metabolic Disorders* **12** (2013).
- 305 Samimi, H., Zaki dizaji, M., Ghadami, M., Shahzadeh fazeli, A., Khashayar, P., **Soleimani, M.**, Larijani, B. & Haghpanah, V. Essential genes in thyroid cancers: Focus on fascin. *Journal of Diabetes and Metabolic Disorders* **12** (2013).
- 306 Saki, N., Jalalifar, M. A., **Soleimani, M.**, Hajizamani, S. & Rahim, F. Adverse effect of high glucose concentration on stem cell therapy. *International Journal of Hematology-Oncology and Stem Cell Research* **7**, 33-39 (2013).
- 307 Saba, F., **Soleimani, M.**, Atashi, A., Mortaz, E., Shahjahani, M., Roshandel, E., Jaseb, K. & Saki, N. The role of the nervous system in hematopoietic stem cell mobilization. *Laboratory Hematology* **19**, 8-16 (2013).
- 308 Saadat, A., Behnamghader, A., Karbasi, S., Abedi, D., **Soleimani, M.** & Shafiee, A. Comparison of acellular and cellular bioactivity of poly 3-hydroxybutyrate/hydroxyapatite nanocomposite and poly 3-hydroxybutyrate scaffolds. *Biotechnology and Bioprocess Engineering* **18**, 587-593 (2013).
- 309 Paryan, M., Mohammadi-Yeganeh, S., Samiee, S. M., **Soleimani, M.**, Arefian, E., Azadmanesh, K., Poopak, B., Mostafavi, E., Karimipoor, M. & Mahdian, R. Investigation of deregulated genes of Notch signaling pathway in human T cell acute lymphoblastic leukemia cell lines and clinical samples. *Molecular Biology Reports* **40**, 5531-5540 (2013).
- 310 Norouzi, M., **Soleimani, M.**, Shabani, I., Atyabi, F., Ahvaz, H. H. & Rashidi, A. Protein encapsulated in electrospun nanofibrous scaffolds for tissue engineering applications. *Polymer International* **62**, 1250-1256 (2013).
- 311 Nikougoftar Zarif, M., **Soleimani, M.**, Abolghasemi, H., Amirizade, N., Arefian, E. & Rahimian, A. Megakaryocytic differentiation of CD133+ hematopoietic stem cells by down-regulation of microRNA-10a. *Hematology* **18**, 93-100 (2013).
- 312 Nadri, S., Yazdani, S., Arefian, E., Gohari, Z., Eslaminejad, M. B., Kazemi, B. &

- Soleimani, M.** Mesenchymal stem cells from trabecular meshwork become photoreceptor-like cells on amniotic membrane. *Neuroscience Letters* **541**, 43-48 (2013).
- 313 Nadri, S., Kazemi, B., Eslaminejad, M. B., Yazdani, S. & **Soleimani, M.** Erratum: High yield of cells committed to the photoreceptor-like cells from conjunctiva mesenchymal stem cells on nanofibrous scaffolds (*Molecular Biology Reports* (2013) 40 (3883-3890) DOI: 10.1007/s11033-012-2360-y). *Molecular Biology Reports* **40**, 4673 (2013).
- 314 Nadri, S., Kazemi, B., Eslaminejad, M. B., Yazdani, S. & **Soleimani, M.** High yield of cells committed to the photoreceptor-like cells from conjunctiva mesenchymal stem cells on nanofibrous scaffolds. *Molecular Biology Reports* **40**, 3883-3890 (2013).
- 315 Mottaghitalab, F., Farokhi, M., Zaminy, A., Kokabi, M., **Soleimani, M.**, Mirahmadi, F., Shokrgozar, M. A. & Sadeghizadeh, M. A Biosynthetic Nerve Guide Conduit Based on Silk/SWNT/Fibronectin Nanocomposite for Peripheral Nerve Regeneration. *PLoS ONE* **8** (2013).
- 316 Mojtahedi, S., Kordi, M. R., Hosseini, S. E., Omran, S. F. & **Soleimani, M.** Effect of treadmill running on the expression of genes that are involved in neuronal differentiation in the hippocampus of adult male rats. *Cell Biology International* **37**, 276-283 (2013).
- 317 Mohammadi-Yeganeh, S., Paryan, M., Mirab Samiee, S., **Soleimani, M.**, Arefian, E., Azadmanesh, K., Mostafavi, E., Mahdian, R. & Karimipoor, M. Development of a robust, low cost stem-loop real-time quantification PCR technique for miRNA expression analysis. *Molecular Biology Reports* **40**, 3665-3674 (2013).
- 318 Mohammadi-Sangcheshmeh, A., Shafiee, A., Seyedjafari, E., Dinarvand, P., Toghdroy, A., Bagherizadeh, I., Schellander, K., Cinar, M. U. & **Soleimani, M.** Isolation, characterization, and mesodermic differentiation of stem cells from adipose tissue of camel (*Camelus dromedarius*). *In Vitro Cellular and Developmental Biology - Animal* **49**, 147-154 (2013).
- 319 Mikaeili Agah, E., Parivar, K., Nabiuni, M., Hashemi, M. & **Soleimani, M.** Induction of human umbilical Wharton's jelly-derived stem cells toward oligodendrocyte phenotype. *Journal of Molecular Neuroscience* **51**, 328-336 (2013).
- 320 Mahmoudi, Z., **Soleimani, M.**, Saidi, A., Iranshahi, M. & Azizsoltanli, A. Effect of *Ferula gummosa* ethanolic extract on osteogenesis in human mesenchymal stem cells. *Journal of Medicinal Plants* **12**, 50-59 (2013).
- 321 Langroudi, L., Forouzandeh, M., **Soleimani, M.**, Atashi, A. & Golestaneh, A. F. Induction of differentiation by down-regulation of Nanog and Rex-1 in cord blood derived unrestricted somatic stem cells. *Molecular Biology Reports* **40**, 4429-4437 (2013).
- 322 Kouhkan, F., **Soleimani, M.**, Daliri, M., Behmanesh, M., Mobarra, N., Mossahebi-Mohammadi, M., Mohammadi, S., Mokhtari, M. & Lahmy, R. miR-451 up-regulation, induce erythroid differentiation of CD133+cells independent of cytokine cocktails. *Iranian Journal of Basic Medical Sciences* **16**, 756-762 (2013).
- 323 Khajeniazi, S., Allameh, A., **Soleimani, M.** & Mortaz, E. Changes in COX-2 and oxidative damage factors during differentiation of human mesenchymal stem cells to hepatocyte-like cells is associated with downregulation of P53 gene. *Biological Chemistry* **394**, 1213-1222 (2013).
- 324 Jalali, H., Parivar, K., Nabiuni, M. & **Soleimani, M.** Unrestricted somatic stem cells as vehicle for nerve growth factor gene transfer. *Neurological Research* **35**, 553-560 (2013).
- 325 Havasi, P., Nabioni, M., **Soleimani, M.**, Bakhshandeh, B. & Parivar, K.

- Mesenchymal stem cells as an appropriate feeder layer for prolonged in vitro culture of human induced pluripotent stem cells. *Molecular Biology Reports* **40**, 3023-3031 (2013).
- 326 Havaei, S. A., Azimian, A., Fazeli, H., Naderi, M., Ghazvini, K., Samiee, S. M. & **Soleimani, M.** Isolation of Asian endemic and livestock associated clones of methicillin resistant *Staphylococcus aureus* from ocular samples in Northeastern Iran. *Iranian Journal of Microbiology* **5**, 227-232 (2013).
- 327 Hashemi, Z. S., Forouzandeh Moghadam, M. & **Soleimani, M.** Comparison of the ex vivo expansion of UCB-derived CD34+ in 3D DBM/MBA scaffolds with USSC as a feeder layer. *Iranian Journal of Basic Medical Sciences* **16**, 1075-1087 (2013).
- 328 Hashemi, S. M., Hassan, Z. M., Pourfathollah, A. A., Soudi, S., Shafiee, A. & **Soleimani, M.** In vitro immunomodulatory properties of osteogenic and adipogenic differentiated mesenchymal stem cells isolated from three inbred mouse strains. *Biotechnology Letters* **35**, 135-142 (2013).
- 329 Hashemi, S. M., Hassan, Z. M., Pourfathollah, A. A., Soudi, S., Shafiee, A. & **Soleimani, M.** Comparative immunomodulatory properties of adipose-derived mesenchymal stem cells conditioned media from BALB/c, C57BL/6, and DBA mouse strains. *Journal of Cellular Biochemistry* **114**, 955-965 (2013).
- 330 Hafizi, M., Atashi, A., Bakhshandeh, B., Kabiri, M., Nadri, S., Hosseini, R. H. & **Soleimani, M.** MicroRNAs as markers for neurally committed CD133+/CD34+ stem cells derived from human umbilical cord blood. *Biochemical Genetics* **51**, 175-188 (2013).
- 331 Habibi, H., Abroun, S., Hajifathali, A., **Soleimani, M.**, Kavyani, S., Kalantari, N. & Eslahchi, S. Osteogenic inhibition in multiple myeloma. *Cell Journal* **15**, 266-271 (2013).
- 332 Gheisari, Y., Ahmadbeigi, N., Aghaee-Bakhtiari, S. H., Nassiri, S. M., Amanpour, S., Azadmanesh, K., Hajarizadeh, A., Mobarra, Z. & **Soleimani, M.** Human unrestricted somatic stem cell administration fails to protect nude mice from cisplatin-induced acute kidney injury. *Nephron - Experimental Nephrology* **123**, 11-21 (2013).
- 333 Fard, A. D., Kaviani, S., Noruzinia, M., **Soleimani, M.**, Abroun, S., Chegeni, R., Hajifathali, A., Zonoubi, Z., Ahmadvand, M., Mohammadi, M. M. & Saki, N. Evaluation of H3 histone methylation and colony formation in erythroid progenitors treated with thalidomide and sodium butyrate. *Laboratory Hematology* **19**, 1-5 (2013).
- 334 Fallah, P., Arefian, E., Naderi, M., Aghaee-Bakhtiari, S. H., Atashi, A., Ahmadi, K., Shafiee, A. & **Soleimani, M.** MiR-146a and miR-150 promote the differentiation of CD133+ cells into T-lymphoid lineage. *Molecular Biology Reports* **40**, 4713-4719 (2013).
- 335 Doustgani, A., Vasheghani-Farahani, E., **Soleimani, M.** & Hashemi-Najafabadi, S. Process optimization of electrospun polycaprolactone and nanohydroxyapatite composite nanofibers using response surface methodology. *Journal of Nanoscience and Nanotechnology* **13**, 4708-4714 (2013).
- 336 Dinarvand, P., Farhadian, S., Seyedjafari, E., Shafiee, A., Jalali, A., Sanaei-Rad, P., Dinarvand, B. & **Soleimani, M.** Novel approach to reduce postsurgical adhesions to a minimum: Administration of losartan plus atorvastatin intraperitoneally. *Journal of Surgical Research* **181**, 91-98 (2013).
- 337 Dehghanifard, A., Shahjahani, M., **Soleimani, M.** & Saki, N. The emerging role of mesenchymal stem cells in tissue engineering. *International Journal of Hematology-Oncology and Stem Cell Research* **7**, 43-44 (2013).
- 338 Babashah, S., Sadeghizadeh, M., Hajifathali, A., Tavirani, M. R., Zomorod, M. S., Ghadiani, M. & **Soleimani, M.** Targeting of the signal transducer Smo links

- microRNA-326 to the oncogenic Hedgehog pathway in CD34+ CML stem/progenitor cells. *International Journal of Cancer* **133**, 579-589 (2013).
- 339 Ardehshirylajimi, A., Hosseinkhani, S., Parivar, K., Yaghmaie, P. & **Soleimani, M.** Nanofiber-based polyethersulfone scaffold and efficient differentiation of human induced pluripotent stem cells into osteoblastic lineage. *Molecular Biology Reports* **40**, 4287-4294 (2013).
- 340 Ardehshirylajimi, A., Farshdousti Hagh, M., Saki, N., Mortaz, E., **Soleimani, M.** & Rahim, F. Feasibility of cell therapy in multiple sclerosis: A systematic review of 83 studies. *International Journal of Hematology-Oncology and Stem Cell Research* **7**, 13-30 (2013).
- 341 Ardehshirylajimi, A., Dinarvand, P., Seyedjafari, E., Langroudi, L., Jamshidi Adegani, F. & **Soleimani, M.** Enhanced reconstruction of rat calvarial defects achieved by plasma-treated electrospun scaffolds and induced pluripotent stem cells. *Cell and Tissue Research* **354**, 849-860 (2013).
- 342 Alamdari, O. G., Seyedjafari, E., **Soleimani, M.** & Ghaemi, N. Micropatterning of ECM proteins on glass substrates to regulate cell attachment and proliferation. *Avicenna Journal of Medical Biotechnology* **5**, 234-240 (2013).
- 343 Ahvaz, H. H., Mobasher, H., Bakhshandeh, B., Shakhssalim, N., Naji, M., Dodel, M. & **Soleimani, M.** Mechanical characteristics of electrospun aligned PCL/PLLA nanofibrous scaffolds conduct cell differentiation in human bladder tissue engineering. *Journal of Nanoscience and Nanotechnology* **13**, 4736-4743 (2013).
- 344 Ahmadbeigi, N., **Soleimani, M.**, Vasei, M., Gheisari, Y., Mortazavi, Y., Azadmanesh, K., Omidkhoda, A., Janzamin, E. & Nardi, N. B. Isolation, characterization, and transplantation of bone marrow-derived cell components with hematopoietic stem cell niche properties. *Stem Cells and Development* **22**, 3052-3061 (2013).
- 345 Adegani, F. J., Langroudi, L., Arefian, E., Shafiee, A., Dinarvand, P. & **Soleimani, M.** A comparison of pluripotency and differentiation status of four mesenchymal adult stem cells. *Molecular Biology Reports* **40**, 3693-3703 (2013).
- 346 Yazdani, S. O., Pedram, M., Hafizi, M., Kabiri, M., **Soleimani, M.**, Dehghan, M. M., Jahanzad, I., Gheisari, Y. & Hashemi, S. M. A comparison between neurally induced bone marrow derived mesenchymal stem cells and olfactory ensheathing glial cells to repair spinal cord injuries in rat. *Tissue and Cell* **44**, 205-213 (2012).
- 347 Yazdani, S. O., Golestaneh, A. F., Shafiee, A., Hafizi, M., Omrani, H. A. G. & **Soleimani, M.** Effects of low level laser therapy on proliferation and neurotrophic factor gene expression of human schwann cells in vitro. *Journal of Photochemistry and Photobiology B: Biology* **107**, 9-13 (2012).
- 348 Talebi, S., Aleyasin, A., **Soleimani, M.** & Massumi, M. Derivation of islet-like cells from mesenchymal stem cells using PDX1-transducing lentiviruses. *Biotechnology and Applied Biochemistry* **59**, 205-212 (2012).
- 349 Sotoudeh, A., Jahanshahi, G., Jahanshahi, A., Takhtfooladi, M. A., Shabani, I. & **Soleimani, M.** Combination of poly L-lactic acid nanofiber scaffold with omentum graft for bone healing in experimental defect in tibia of rabbits. *Acta Cirurgica Brasileira* **27**, 694-701 (2012).
- 350 Sotoudeh, A., Abedi, G. R., **Soleimani, M.**, Aflatoonian, M. R., Jahanshahi, A. & Ashrafzadeh, M. Potential of electrospun collagen/PVA hybrid nanofiber scaffold without cell seeded in cartilage tissue engineering. 303-308 (2012).
- 351 **Soleimani, M.**, Abbasnia, E., Fathi, M., Sahraei, H., Fathi, Y. & Kaka, G. The effects of low-level laser irradiation on differentiation and proliferation of human bone marrow mesenchymal stem cells into neurons and osteoblasts-an in vitro study. *Lasers in Medical Science* **27**, 423-430 (2012).

- 352 Shirazi, R., Zarnani, A. H., **Soleimani, M.**, Abdolvahabi, M. R., Nayernia, K. & Kashani, T. R. BMP4 can generate primordial germ cells from bonemarrow-derived pluripotent stem cells. *Cell Biology International* **36**, 1185-1193 (2012).
- 353 Shakhssalim, N., Dehghan, M. M., Moghadasali, R., Soltani, M. H., Shabani, I. & **Soleimani, M.** Bladder tissue engineering using biocompatible nanofibrous electro-spun constructs: Feasibility and safety investigation. *Urology Journal* **9**, 410-419 (2012).
- 354 Shabani, I., Haddadi-Asl, V., Seyedjafari, E. & **Soleimani, M.** Cellular infiltration on nanofibrous scaffolds using a modified electrospinning technique. *Biochemical and Biophysical Research Communications* **423**, 50-54 (2012).
- 355 Sepand, M., Soodi, M., **Soleimani, M.** & Hajimehdipoor, H. Protective effects of melissa officinalis extract against beta-amyloid-induced oxidative stress in PC12 cells. *Journal of Medicinal Plants* **11**, 74-85 (2012).
- 356 Safari, S., Zarrintan, M. H., **Soleimani, M.**, Dorkoosh, F. A., Akbari, H., Larijani, B. & Tehrani, M. R. Evaluation and optimization of chitosan derivatives-based gene delivery system via kidney epithelial cells. *Advanced Pharmaceutical Bulletin* **2**, 7-16 (2012).
- 357 Razban, V., Lotfi, A. S., **Soleimani, M.**, Ahmadi, H., Massumi, M., Khajeh, S., Ghaedi, M., Arjmand, S., Najavand, S. & Khoshdel, A. HIF-1 α overexpression induces angiogenesis in mesenchymal stem cells. *BioResearch Open Access* **1**, 174-183 (2012).
- 358 Mossahebimohammadi, M., Kaviani, S., Soufizomorrod, M., **Soleimani, M.**, Abroun, S., Khamisipour, G. & Saki, N. Lymphoid genes expression in mouse embryonic stem cells with differentiation on feeder free condition. *International Journal of Hematology-Oncology and Stem Cell Research* **6**, 22-26 (2012).
- 359 Moradi, F., Bahktiari, M., Joghataei, M. T., Nobakht, M., **Soleimani, M.**, Hasanzadeh, G., Fallah, A., Zarbakhsh, S., Hejazian, L. B., Shirmohammadi, M. & Maleki, F. BD PuraMatrix peptide hydrogel as a culture system for human fetal Schwann cells in spinal cord regeneration. *Journal of Neuroscience Research* **90**, 2335-2348 (2012).
- 360 Mojtahedi, S. H., Kordi, M. R., **Soleimani, M.** & Hosseini, S. E. The effect of forced short-term aerobic running on the expression of microRNA124 and RE1-silencing transcription factor in the hippocampus of adult male rats. *Journal of Zanjan University of Medical Sciences and Health Services* **20**, 28-36 (2012).
- 361 Mohammad-Taeheri, M., Vasheghani-Farahani, E., Hosseinkhani, H., Shojaosadati, S. A. & **Soleimani, M.** Fabrication and characterization of a new MRI contrast agent based on a magnetic dextran-spermine nanoparticle system. *Iranian Polymer Journal (English Edition)* **21**, 239-251 (2012).
- 362 Mohammadi-Sangcheshmeh, A., **Soleimani, M.**, Deldar, H., Salehi, M., Soudi, S., Hashemi, S. M., Schellander, K. & Hoelker, M. Prediction of oocyte developmental competence in ovine using glucose-6-phosphate dehydrogenase (G6PDH) activity determined at retrieval time. *Journal of Assisted Reproduction and Genetics* **29**, 153-158 (2012).
- 363 Massumi, M., Abasi, M., Babaloo, H., Terraf, P., Safi, M., Saeed, M., Barzin, J., Zandi, M. & **Soleimani, M.** The effect of topography on differentiation fates of matrigel-coated mouse embryonic stem cells cultured on PLGA nanofibrous scaffolds. *Tissue Engineering - Part A* **18**, 609-620 (2012).
- 364 Khoshdel, A., Lotfi, A. S., **Soleimani, M.**, Daliri, M., Mota, A. & Adibi, B. Evaluation of biochemical markers in hepatocyte like cells differentiated from adipose derivation stem cells. *World Applied Sciences Journal* **16**, 693-698 (2012).
- 365 Khoshdel, A., Lotfi, A. S., **Soleimani, M.**, Daliri, M., Mota, A. & Adibi, B.

- Evaluation of biochemical markers in hepatocyte like cells differentiated from adipose derived stem cells. *HealthMED* **6**, 511-516 (2012).
- 366 Keshel, S. H., **Soleimani, M.**, Tavirani, M. R., Ebrahimi, M., Raeisossadati, R., Yasaei, H., Afsharzadeh, D., Behroz, M. J., Atashi, A., Amanpour, S., Khoshzaban, A., Roozafzoon, R. & Behrouzi, G. R. Evaluation of unrestricted somatic stem cells as a feeder layer to support undifferentiated embryonic stem cells. *Molecular Reproduction and Development* **79**, 709-718 (2012).
- 367 Kazemnejad, S., Akhondi, M. M., **Soleimani, M.**, Zarnani, A. H., Khanmohammadi, M., Darzi, S. & Alimoghadam, K. Characterization and chondrogenic differentiation of menstrual blood-derived stem cells on a nanofibrous scaffold. *International Journal of Artificial Organs* **35**, 55-66 (2012).
- 368 Kabiri, M., **Soleimani, M.**, Shabani, I., Futrega, K., Ghaemi, N., Ahvaz, H. H., Elahi, E. & Doran, M. R. Neural differentiation of mouse embryonic stem cells on conductive nanofiber scaffolds. *Biotechnology Letters* **34**, 1357-1365 (2012).
- 369 Jahani, H., Kaviani, S., Hassanpour-Ezatti, M., **Soleimani, M.**, Kaviani, Z. & Zonoubi, Z. The effect of aligned and random electrospun fibrous scaffolds on rat mesenchymal stem cell proliferation. *Cell Journal* **14**, 31-38 (2012).
- 370 Hejazian, L. B., Esmailzade, B., Ghoroghi, F. M., Moradi, F., Hejazian, M. B., Aslani, A., Bakhtiari, M., **Soleimani, M.** & Nobakht, M. The role of biodegradable engineered nanofiber scaffolds seeded with hair follicle stem cells for tissue engineering. *Iranian Biomedical Journal* **16**, 193-201 (2012).
- 371 Hashemi, Z. S., Moghadam, M. F., **Soleimani, M.**, Hafizi, M. & Amirizadeh, N. TGF- β downregulation by RNAi technique in ex vivo expanded HSCs on 3D DBM scaffold. *Tehran University Medical Journal* **70**, 86-95 (2012).
- 372 Haririan, M., Kaviani, S., **Soleimani, M.**, Ghaemi, S. R., Delalat, B. & Atashi, A. Morpholino Oligo Antisense efficiently suppresses BCR/ABL and cell proliferation in CML: Specific inhibition of BCR-ABL gene expression by Morpholino Oligo Antisense in BCR-ABL+cells. *Hematology* **17**, 28-34 (2012).
- 373 Hagh, M. F., Noruzinia, M., Mortazavi, Y., **Soleimani, M.**, Kaviani, S. & Maymand, M. M. Zoledronic acid induces osteoblastic differentiation of mesenchymal stem cells without change in hypomethylation status of osterix promoter. *Cell Journal* **14**, 90-97 (2012).
- 374 Hafizi, M., Bakhshandeh, B., **Soleimani, M.** & Atashi, A. Exploring the enkephalinergic differentiation potential in adult stem cells for cell therapy and drug screening implications. *In Vitro Cellular and Developmental Biology - Animal* **48**, 562-569 (2012).
- 375 Golestaneh, A. F., Atashi, A., Langroudi, L., Shafiee, A., Ghaemi, N. & **Soleimani, M.** miRNAs expressed differently in cancer stem cells and cancer cells of human gastric cancer cell line MKN-45. *Cell Biochemistry and Function* **30**, 411-418 (2012).
- 376 Gheisari, Y., Azadmanesh, K., Ahmadbeigi, N., Nassiri, S. M., Golestaneh, A. F., Naderi, M., Vasei, M., Arefian, E., Mirab-Samiee, S., Shafiee, A., **Soleimani, M.** & Zeinali, S. Genetic modification of mesenchymal stem cells to overexpress CXCR4 and CXCR7 does not improve the homing and therapeutic potentials of these cells in experimental acute kidney injury. *Stem Cells and Development* **21**, 2969-2980 (2012).
- 377 Ghaedi, M., **Soleimani, M.**, Shabani, I., Duan, Y. & Lotfi, A. S. Hepatic differentiation from human mesenchymal stem cells on a novel nanofiber scaffold. *Cellular and Molecular Biology Letters* **17**, 89-106 (2012).
- 378 Esmali, S., Allameh, A., Alegha, M. S. E., Kazemnejad, S. & **Soleimani, M.** Expression of cytochrome P450 and glutathione S-transferase in human bone marrow mesenchymal stem cells. *Iranian Journal of Biotechnology* **10**, 270-274 (2012).
- 379 Doustgani, A., Vasheghani-Farahani, E., **Soleimani, M.** & Hashemi-Najafabadi, S.

- Optimizing the mechanical properties of electrospun polycaprolactone and nanohydroxyapatite composite nanofibers. *Composites Part B: Engineering* **43**, 1830-1836 (2012).
- 380 Dinarvand, P., Hashemi, S. M., Seyedjafari, E., Shabani, I., Mohammadi-Sangcheshmeh, A., Farhadian, S. & **Soleimani, M.** Function of poly (lactic-co-glycolic acid) nanofiber in reduction of adhesion bands. *Journal of Surgical Research* **172**, e1-e9 (2012).
- 381 Dastjerdi, F. V., Zeynal, B., Tafreshi, A. P., Shahraz, A., Chavoshi, M. S., Najafabadi, I. K., Vardanjani, M. M., Atashi, A. & **Soleimani, M.** Inhibition of GSK-3 β enhances neural differentiation in unrestricted somatic stem cells. *Cell Biology International* **36**, 967-972 (2012).
- 382 Daraiee, B., Pourahmad, J., Hamidi-Pour, N., Hosseini, M. J., Shaki, F. & **Soleimani, M.** Uranyl acetate induces oxidative stress and mitochondrial membrane potential collapse in the human dermal fibroblast primary cells. *Iranian Journal of Pharmaceutical Research* **11**, 495-501 (2012).
- 383 Behnia, H., Khojasteh, A., **Soleimani, M.**, Tehranchi, A. & Atashi, A. Repair of alveolar cleft defect with mesenchymal stem cells and platelet derived growth factors: A preliminary report. *Journal of Cranio-Maxillofacial Surgery* **40**, 2-7 (2012).
- 384 Bakhshandeh, B., **Soleimani, M.**, Paylakhi, S. H. & Ghaemi, N. A microRNA signature associated with chondrogenic lineage commitment. *Journal of Genetics* **91**, 171-182 (2012).
- 385 Bakhshandeh, B., **Soleimani, M.**, Hafizi, M., Paylakhi, S. H. & Ghaemi, N. MicroRNA signature associated with osteogenic lineage commitment. *Molecular Biology Reports* **39**, 7569-7581 (2012).
- 386 Bakhshandeh, B., **Soleimani, M.**, Hafizi, M. & Ghaemi, N. A comparative study on nonviral genetic modifications in cord blood and bone marrow mesenchymal stem cells. *Cytotechnology* **64**, 523-540 (2012).
- 387 Bakhshandeh, B., Hafizi, M., Ghaemi, N. & **Soleimani, M.** Down-regulation of miRNA-221 triggers osteogenic differentiation in human stem cells. *Biotechnology Letters* **34**, 1579-1587 (2012).
- 388 Babashah, S., Sadeghizadeh, M., Tavirani, M. R., Farivar, S. & **Soleimani, M.** Aberrant microRNA expression and its implications in the pathogenesis of leukemias. *Cellular Oncology* **35**, 317-334 (2012).
- 389 Azimian, A., Havaei, S. A., Fazeli, H., Naderi, M., Ghazvini, K., Samiee, S. M., **Soleimani, M.** & Peerayeh, S. N. Genetic characterization of a vancomycin-resistant *Staphylococcus aureus* isolate from the respiratory tract of a patient in a University Hospital in Northeastern Iran. *Journal of Clinical Microbiology* **50**, 3581-3585 (2012).
- 390 Azimian, A., Havaei, S. A., Fazeli, H., Naderi, M., Ghazvini, K., Samiee, S. M., **Soleimani, M.** & Peerayeh, S. N. Genetic analysis of a vancomycin-resistant *staphylococcus aureus* strain isolated in Iran. *mBio* **3** (2012).
- 391 Azarpira, N., Amini, M., Kojuri, J., Pasalar, P., **Soleimani, M.**, Hossein Khani, S., Ebrahimi, M., Niknejhad, H., Karimian, Z., Lotfi, F., Shahabi, S., Saadat, I., Dehghani, M. R., Mohagheghi, M. A., Adibi, P. & Bagheri Lankarani, K. Assessment of scientific thinking in basic science in the Iranian second national Olympiad. *BMC Research Notes* **5** (2012).
- 392 Attar, M., Arefian, E., Nabiuni, M., Adegani, F. J., Bakhtiari, S. H. A., Karimi, Z., Barzegar, M. & **Soleimani, M.** MicroRNA 17-92 expressed by a transposone-based vector changes expression level of cell-cycle-related genes. *Cell Biology International* **36**, 1005-1012 (2012).
- 393 Attar, M., Arefian, E., Nabiuni, M., Adegani, F. J., Bakhtiari, S. H. A., Karimi, Z.,

- Barzegar, M. & **Soleimani, M.** Erratum to MicroRNA 17-92 expressed by a transposone-based vector changes expression level of cell-cycle-related genes [Cell Biol. Int. 36, (2012), 1299]. *Cell Biology International* **36**, 1299 (2012).
- 394 Ahvaz, H. H., **Soleimani, M.**, Mobasheri, H., Bakhshandeh, B., Shakhssalim, N., Soudi, S., Hafizi, M., Vasei, M. & Dodel, M. Effective combination of hydrostatic pressure and aligned nanofibrous scaffolds on human bladder smooth muscle cells: Implication for bladder tissue engineering. *Journal of Materials Science: Materials in Medicine* **23**, 2281-2290 (2012).
- 395 Ahmadi-Ashtiani, H., Allameh, A., Rastegar, H., **Soleimani, M.** & Barkhordari, E. Inhibition of cyclooxygenase-2 and inducible nitric oxide synthase by silymarin in proliferating mesenchymal stem cells: Comparison with glutathione modifiers. *Journal of Natural Medicines* **66**, 85-95 (2012).
- 396 Ahmadbeigi, N., **Soleimani, M.**, Babaeijandaghi, F., Mortazavi, Y., Gheisari, Y., Vasei, M., Azadmanesh, K., Rostami, S., Shafiee, A. & Nardi, N. B. The aggregate nature of human mesenchymal stromal cells in native bone marrow. *Cytotherapy* **14**, 917-924 (2012).
- 397 Aghayan, H. R., Arjmand, B., Norouzi-Javidan, A., Saberi, H., **Soleimani, M.**, Tavakoli, S. A. H., Khodadadi, A., Tirgar, N. & Mohammadi-Jahani, F. Clinical grade cultivation of human Schwann cell, by the using of human autologous serum instead of fetal bovine serum and without growth factors. *Cell and Tissue Banking* **13**, 281-285 (2012).
- 398 Zarif, M. N., **Soleimani, M.**, Abolghasemi, H., Amirizade, N., Abroun, S. & Kaviani, S. The high yield expansion and megakaryocytic differentiation of human umbilical cord blood CD133 + cells. *Cell Journal* **13**, 173-178 (2011).
- 399 Tarfiei, G., Noruzinia, M., **Soleimani, M.**, Kaviani, S., Maymand, M. M., Hagh, M. F. & Pujol, P. ROR2 promoter methylation change in osteoblastic differentiation of mesenchymal stem cells. *Cell Journal* **13**, 11-18 (2011).
- 400 Soleimani, R., **Soleimani, M.**, Godarzi, M. G. & Askari, A. Preparation of soft manganese ferrite and inventional of its magnetic properties and Mn55 nuclear magnetic resonance. *Journal of Fusion Energy* **30**, 338-341 (2011).
- 401 Shafiee, A., **Soleimani, M.**, Chamheidari, G. A., Seyedjafari, E., Dodel, M., Atashi, A. & Gheisari, Y. Electrospun nanofiber-based regeneration of cartilage enhanced by mesenchymal stem cells. *Journal of Biomedical Materials Research - Part A* **99 A**, 467-478 (2011).
- 402 Shafiee, A., Seyedjafari, E., **Soleimani, M.**, Ahmadbeigi, N., Dinarvand, P. & Ghaemi, N. A comparison between osteogenic differentiation of human unrestricted somatic stem cells and mesenchymal stem cells from bone marrow and adipose tissue. *Biotechnology Letters* **33**, 1257-1264 (2011).
- 403 Shafiee, A., Kabiri, M., Ahmadbeigi, N., Yazdani, S. O., Mojtahed, M., Amanpour, S. & **Soleimani, M.** Nasal septum-derived multipotent progenitors: A potent source for stem cell-based regenerative medicine. *Stem Cells and Development* **20**, 2077-2091 (2011).
- 404 Shabani, I., Hasani-Sadrabadi, M. M., Haddadi-Asl, V. & **Soleimani, M.** Nanofiber-based polyelectrolytes as novel membranes for fuel cell applications. *Journal of Membrane Science* **368**, 233-240 (2011).
- 405 Shabani, I., Haddadi-Asl, V., **Soleimani, M.**, Seyedjafari, E., Babaeijandaghi, F. & Ahmadbeigi, N. Enhanced infiltration and biomineralization of stem cells on collagen-grafted three-dimensional nanofibers. *Tissue Engineering - Part A* **17**, 1209-1218 (2011).
- 406 Seyedjafari, E., **Soleimani, M.**, Ghaemi, N. & Sarbolouki, M. N. Enhanced osteogenic differentiation of cord blood-derived unrestricted somatic stem cells on

- electrospun nanofibers. *Journal of Materials Science: Materials in Medicine* **22**, 165-174 (2011).
- 407 Safari, S., Dorkoosh, F. A., **Soleimani, M.**, Zarrintan, M. H., Akbari, H., Larijani, B. & Tehrani, M. R. N-Diethylmethyl chitosan for gene delivery to pancreatic cancer cells and the relation between charge ratio and biologic properties of polyplexes via interpolations polynomial. *International Journal of Pharmaceutics* **420**, 350-357 (2011).
- 408 Rahimian, A., **Soleimani, M.**, Kaviani, S., Aghaee-Bakhtiari, S. H., Atashi, A., Arefian, E. & Nikougoftar, M. Bypassing the maturation arrest in myeloid cell line U937 by over-expression of microRNA-424. *Hematology* **16**, 298-302 (2011).
- 409 Kouhkan, F., Alizadeh, S., Kaviani, S., **Soleimani, M.**, Pourfathollah, A. A., Amirizadeh, N., Abroun, S., Noruzinia, M. & Mohamadi, S. MiR-155 down regulation by LNA inhibitor can reduce cell growth and proliferation in PC12 cell line. *Avicenna Journal of Medical Biotechnology* **3**, 61-66 (2011).
- 410 Khoda, A. O., Gharehbaghian, A., Jamali, M., Beigi, N. A., Hashemi, S. M., Rahimi, A. & **Soleimani, M.** Comparison of the prevalence of major transfusion-transmitted infections among iranian blood donors using confidential unit exclusion in an Iranian population. *Hepatitis Monthly* **11**, 11-13 (2011).
- 411 Jamshidi Adegani, F., Langroudi, L., Arefian, E. & **Soleimani, M.** Differentiation microRNAs affect stemness status of USSCs. *Iranian Red Crescent Medical Journal* **13**, 726-734 (2011).
- 412 Hashemi, S. M., Soudi, S., Shabani, I., Naderi, M. & **Soleimani, M.** The promotion of stemness and pluripotency following feeder-free culture of embryonic stem cells on collagen-grafted 3-dimensional nanofibrous scaffold. *Biomaterials* **32**, 7363-7374 (2011).
- 413 Hasani-Sadrabadi, M. M., Shabani, I., **Soleimani, M.** & Moaddel, H. Novel nanofiber-based triple-layer proton exchange membranes for fuel cell applications. *Journal of Power Sources* **196**, 4599-4603 (2011).
- 414 Hamta, A., Shariatzadeh, S. M. A., **Soleimani, M.** & Seifi, F. Introduction and bioinformatic's evaluation of candidate genes in breast cancer using cytogenetic studies of cancer induction. *Journal of Zanjan University of Medical Sciences and Health Services* **19**, 8 (2011).
- 415 Hamidabadi, H. G., Pasbakhsh, P., Amidi, F., **Soleimani, M.**, Forouzandeh, M. & Sobhani, A. Functional concentrations of BMP4 on differentiation of mouse embryonic stem cells to primordial germ cells. *International Journal of Fertility and Sterility* **5**, 104-109 (2011).
- 416 Gheisari, Y., Ahmadbeigi, N., Naderi, M., Nassiri, S. M., Nadri, S. & **Soleimani, M.** Stem cell-conditioned medium does not protect against kidney failure. *Cell Biology International* **35**, 209-213 (2011).
- 417 Ghaedi, M., **Soleimani, M.**, Taghvaie, N. M., Sheikhatollahi, M., Azadmanesh, K., Lotfi, A. S. & Wu, J. Mesenchymal stem cells as vehicles for targeted delivery of anti-angiogenic protein to solid tumors. *Journal of Gene Medicine* **13**, 171-180 (2011).
- 418 Ghaderi, M., Allameh, A., **Soleimani, M.**, Rastegar, H. & Ahmadi-Ashtiani, H. R. A comparison of DNA damage induced by aflatoxin B1 in hepatocyte-like cells, their progenitor mesenchymal stem cells and CD34+ cells isolated from umbilical cord blood. *Mutation Research - Genetic Toxicology and Environmental Mutagenesis* **719**, 14-20 (2011).
- 419 Farashahi Yazd, E., Rafiee, M. R., **Soleimani, M.**, Tavallaei, M., Salmani, M. K. & Mowla, S. J. OCT4B1, a novel spliced variant of OCT4, generates a stable truncated protein with a potential role in stress response. *Cancer Letters* **309**, 170-175 (2011).

- 420 Dinarvand, P., Seyedjafari, E., Shafiee, A., Babaei Jandaghi, A., Doostmohammadi, A., Fathi, M. H., Farhadian, S. & **Soleimani, M.** New approach to bone tissue engineering: Simultaneous application of hydroxyapatite and bioactive glass coated on a poly(L-lactic acid) scaffold. *ACS Applied Materials and Interfaces* **3**, 4518-4524 (2011).
- 421 Boroujeni, N. B., Hashemi, S. M., Khaki, Z. & **Soleimani, M.** The reversal of hyperglycemia after transplantation of mouse embryonic stem cells induced into early hepatocyte-like cells in streptozotocin-induced diabetic mice. *Tissue and Cell* **43**, 75-82 (2011).
- 422 Bakhshandeh, H., **Soleimani, M.**, Hosseini, S. S., Hashemi, H., Shabani, I., Shafiee, A., Nejad, A. H., Erfan, M., Dinarvand, R. & Atyabi, F. Poly (epsilon-caprolactone) nanofibrous ring surrounding a polyvinyl alcohol hydrogel for the development of a biocompatible two-part artificial cornea. *International journal of nanomedicine* **6**, 1509-1515 (2011).
- 423 Bakhshandeh, B., **Soleimani, M.**, Ghaemi, N. & Shabani, I. Effective combination of aligned nanocomposite nanofibers and human unrestricted somatic stem cells for bone tissue engineering. *Acta Pharmacologica Sinica* **32**, 626-636 (2011).
- 424 Babashah, S. & **Soleimani, M.** The oncogenic and tumour suppressive roles of microRNAs in cancer and apoptosis. *European Journal of Cancer* **47**, 1127-1137 (2011).
- 425 Ayatollahi, M., **Soleimani, M.**, Geramizadeh, B. & Imanieh, M. H. Insulin-like growth factor 1 (IGF-I) improves hepatic differentiation of human bone marrow-derived mesenchymal stem cells. *Cell Biology International* **35**, 1169-1176 (2011).
- 426 Arefian, E., Kiani, J., **Soleimani, M.**, Shariati, S. A. M., Aghaee-Bakhtiari, S. H., Atashi, A., Gheisari, Y., Ahmadbeigi, N., Banaei-Moghaddam, A. M., Naderi, M., Namvarasl, N., Good, L. & Faridani, O. R. Analysis of microRNA signatures using size-coded ligation-mediated PCR. *Nucleic Acids Research* **39** (2011).
- 427 Ahmadbeigi, N., **Soleimani, M.** & Mortazavi, Y. The efficiency of density gradient for separation of mesenchymal stem cells from bone marrow sample. *Journal of Zanzan University of Medical Sciences and Health Services* **19**, 7 (2011).
- 428 Ahmadbeigi, N., **Soleimani, M.**, Gheisari, Y., Vasei, M., Amanpour, S., Bagherizadeh, I., Shariati, S. A. M., Azadmanesh, K., Amini, S., Shafiee, A., Arabkari, V. & Nardi, N. B. Dormant phase and multinuclear cells: Two key phenomena in early culture of murine bone marrow mesenchymal stem cells. *Stem Cells and Development* **20**, 1337-1347 (2011).
- 429 Ahmadbeigi, N., Shafiee, A., Seyedjafari, E., Gheisari, Y., Vassei, M., Amanpour, S., Amini, S., Bagherizadeh, I. & **Soleimani, M.** Early spontaneous immortalization and loss of plasticity of rabbit bone marrow mesenchymal stem cells. *Cell Proliferation* **44**, 67-74 (2011).
- 430 **Soleimani, M.**, Nadri, S. & Shabani, I. Neurogenic differentiation of human conjunctiva mesenchymal stem cells on a nanofibrous scaffold. *International Journal of Developmental Biology* **54**, 1295-1300 (2010).
- 431 Shirazi, A., **Soleimani, M.**, Karimi, M., Nazari, H., Ahmadi, E. & Heidari, B. Vitrification of in vitro produced ovine embryos at various developmental stages using two methods. *Cryobiology* **60**, 204-210 (2010).
- 432 Shaikhpoor, M., Khanahmad, H., Shokrgozar, M., **Soleimani, M.**, Zainali, B., Kamali, E., Moosavi, S. S. & Zeinali, S. Transfection of human hematopoietic stem cells by a gene targeting construct containing the β -globin gene. *Yakhteh* **12**, 199-206 (2010).
- 433 Seyedjafari, E., **Soleimani, M.**, Ghaemi, N. & Shabani, I. Nanohydroxyapatite-coated electrospun poly(L-lactide) Nanofibers enhance osteogenic differentiation of stem

- cells and induce ectopic bone formation. *Biomacromolecules* **11**, 3118-3125 (2010).
- 434 Samani, F., Kokabi, M., **Soleimani, M.** & Valojerdi, M. R. Fabrication and characterization of electrospun fibrous nanocomposite scaffolds based on poly(lactide-co-glycolide)/poly(vinyl alcohol) blends. *Polymer International* **59**, 901-909 (2010).
- 435 Pedram, M. S., Dehghan, M. M., **Soleimani, M.**, Sharifi, D., Marjanmehr, S. H. & Nasiri, Z. Transplantation of a combination of autologous neural differentiated and undifferentiated mesenchymal stem cells into injured spinal cord of rats. *Spinal Cord* **48**, 457-463 (2010).
- 436 Nafar, M., Parvin, M., Sadeghi, P., Ghoraishian, M., **Soleimani, M.**, Tabibi, A., Nouralizadeh, A., Amir Khanlou, S., Barzi, F. & Alipour, B. Effects of stem cells and granulocyte colony stimulating factor on reperfusion injury. *Iranian Journal of Kidney Diseases* **4**, 207-213 (2010).
- 437 Mohajeri, S., Hosseinkhani, H., Ebrahimi, N. G., Nikfarjam, L., **Soleimani, M.** & Kajbafzadeh, A. M. Proliferation and differentiation of mesenchymal stem cell on collagen sponge reinforced with polypropylene/polyethylene terephthalate blend fibers. *Tissue Engineering - Part A* **16**, 3821-3830 (2010).
- 438 Javanmard, S. H., Gheisari, Y., **Soleimani, M.**, Nematbakhsh, M. & Monajemi, A. Effect of L-arginine on circulating endothelial progenitor cells in hypercholesterolemic rabbits. *International Journal of Cardiology* **143**, 213-216 (2010).
- 439 Haririan, M., Kaviani, S., **Soleimani, M.**, Noruzinia, M., Abroun, S., Ghaemi, S. R. & Bahman, D. Evaluation of morpholino antisense oligos' role on BCR-ABL gene silencing in the K562 cell line. *Yakhteh* **12**, 241-248 (2010).
- 440 Gheisari, Y., Nassiri, S. M., Arefian, E., Ahmadbeigi, N., Azadmanesh, K., Jamali, M., Jahanzad, I., Zeinali, S., Vasei, M. & **Soleimani, M.** Severely damaged kidneys possess multipotent renoprotective stem cells. *Cytotherapy* **12**, 303-313.e301 (2010).
- 441 Ghaedi, M., Lotfi, A. S. & **Soleimani, M.** Establishment of lentiviral-vector-mediated model of human alpha-1 antitrypsin delivery into hepatocyte-like cells differentiated from mesenchymal stem cells. *Tissue and Cell* **42**, 181-189 (2010).
- 442 Foroutan, T., Hosseini, A., Pourfathollah, A. A., **Soleimani, M.**, Alimoghadam, K. & Mosaffa, N. Peritoneal mesothelial progenitor or stem cell. *Journal of Biological Sciences* **10**, 460-464 (2010).
- 443 Ebrahimi, H., **Soleimani, M.**, Arababadi, M. K., Ahmadbeigi, N., Hassanshahi, G., Farjadfar, A. & Kennedy, D. An in vitro assay to evaluate the immunomodulatory effects of unrestricted somatic stem cells. *Iranian Journal of Immunology* **7**, 30-38 (2010).
- 444 Dinarvand, P., Hashemi, S. M. & **Soleimani, M.** Effect of transplantation of mesenchymal stem cells induced into early hepatic cells in Streptozotocin-induced diabetic mice. *Biological and Pharmaceutical Bulletin* **33**, 1212-1217 (2010).
- 445 Babaeijandaghi, F., Shabani, I., Seyedjafari, E., Naraghi, Z. S., Vasei, M., Haddadi-Asl, V., Hesari, K. K. & **Soleimani, M.** Accelerated epidermal regeneration and improved dermal reconstruction achieved by polyethersulfone nanofibers. *Tissue Engineering - Part A* **16**, 3527-3536 (2010).
- 446 Ayatollahi, M., Salmani, M. K., **Soleimani, M.**, Geramizade, B., Sanati, M. H., Gardaneh, M. & Tabei, S. Z. Expansion of human marrow derived mesenchymal stem cells and their transdifferentiation potential. *Iranian Red Crescent Medical Journal* **12**, 446-452 (2010).
- 447 Alizadeh, S., Kaviani, S., **Soleimani, M.**, Kouhkan, F., Pourfathollah, A. A., Amirizadeh, N., Abroun, S. & Noruzinia, M. Mir-155 downregulation by miRCURY LNA™ microRNA inhibitor can increase alpha chain hemoglobins expression in

- erythroleukemic K562 cell line. *International Journal of Hematology-Oncology and Stem Cell Research* **4**, 4-9 (2010).
- 448 Ahmadi, A. H. R., Allameh, A., Hamidipour, N., Rastegar, H. & **Soleimani, M.** Increasing rate of human bone marrow mesenchymal stem cell proliferation in the presence of silymarin. *Journal of Medicinal Plants* **9**, 156-164 (2010).
- 449 Ahmadbeigi, N., Seyedjafari, E., Gheisari, Y., Atashi, A., Omidkhoda, A. & **Soleimani, M.** Surface expression of CXCR4 in unrestricted somatic stem cells and its regulation by growth factors. *Cell Biology International* **34**, 687-692 (2010).
- 450 **Soleimani, M.** & Nadri, S. A protocol for isolation and culture of mesenchymal stem cells from mouse bone marrow. *Nature Protocols* **4**, 102-106 (2009).
- 451 Shabani, I., Haddadi-Asl, V., Seyedjafari, E., Babaeijandaghi, F. & **Soleimani, M.** Improved infiltration of stem cells on electrospun nanofibers. *Biochemical and Biophysical Research Communications* **382**, 129-133 (2009).
- 452 Salehi, M., Pasbakhsh, P., **Soleimani, M.**, Abbasi, M., Hasanzadeh, G., Modaresi, M. H. & Sobhani, A. Repair of spinal cord injury by co-transplantation of embryonic stem cell-derived motor neuron and olfactory ensheathing cell. *Iranian Biomedical Journal* **13**, 125-135 (2009).
- 453 Kharaziha, P., Hellström, P. M., Noorinayer, B., Farzaneh, F., Aghajani, K., Jafari, F., Telkabadi, M., Atashi, A., Honardoost, M., Zali, M. R. & **Soleimani, M.** Improvement of liver function in liver cirrhosis patients after autologous mesenchymal stem cell injection: A phase I-II clinical trial. *European Journal of Gastroenterology and Hepatology* **21**, 1199-1205 (2009).
- 454 Kazemnejad, S., Allameh, A., **Soleimani, M.**, Gharehbaghian, A., Mohammadi, Y., Amirizadeh, N. & Jazayeri, M. Biochemical and molecular characterization of hepatocyte-like cells derived from human bone marrow mesenchymal stem cells on a novel three-dimensional biocompatible nanofibrous scaffold. *Journal of Gastroenterology and Hepatology (Australia)* **24**, 278-287 (2009).
- 455 Hashemi, S. M., **Soleimani, M.**, Zargarian, S. S., Haddadi-Asl, V., Ahmadbeigi, N., Soudi, S., Gheisari, Y., Hajarizadeh, A. & Mohammadi, Y. In vitro differentiation of human cord blood-derived unrestricted somatic stem cells into hepatocyte-like cells on poly(ϵ -caprolactone) nanofiber scaffolds. *Cells Tissues Organs* **190**, 135-149 (2009).
- 456 Haghjooyjavanmard, S., Nematbakhsh, M. & **Soleimani, M.** The effect of hypercholesterolemia on serum vascular endothelial growth factor and nitrite concentrations in early stage of atherosclerosis in rabbits. *Pakistan Journal of Nutrition* **8**, 86-89 (2009).
- 457 Gheisari, Y., **Soleimani, M.**, Zeinali, S., Arefian, E., Atashi, A. & Zarif, M. N. Isolation of stem cells from adult rat kidneys. *Biocell* **33**, 33-38 (2009).
- 458 Ghaedi, M., Lotfi, A. S., **Soleimani, M.**, Shamsara, M., Arjmand, S. & Adibi, B. Expression of recombinant alpha-1 antitrypsin in CHO and COS-7 cell lines using lentiviral vector. *Iranian Journal of Biotechnology* **7**, 148-156+192 (2009).
- 459 Delalat, B., Pourfathollah, A. A., **Soleimani, M.**, Mozdarani, H., Ghaemi, S. R., Movassaghpour, A. A. & Kaviani, S. Isolation and ex vivo expansion of human umbilical cord blood-derived CD 34 + stem cells and their cotransplantation with or without mesenchymal stem cells. *Hematology* **14**, 125-132 (2009).
- 460 Behnia, H., Khojasteh, A., **Soleimani, M.**, Tehranchi, A., Khoshzaban, A., Keshel, S. H. & Atashi, R. Secondary repair of alveolar clefts using human mesenchymal stem cells. *Oral Surgery, Oral Medicine, Oral Pathology, Oral Radiology and Endodontology* **108**, e1-e6 (2009).
- 461 Azad, M., Kaviani, S., **Soleimani, M.**, Noruzinia, M. & Hajfathali, A. Common polymorphism's analysis of thiopurine S-methyltransferase (TPMT) in Iranian

- population. *Yakhteh* **11**, 311-316+335 (2009).
- 462 Atashi, A., Nadri, S., Hafizi, M. & **Soleimani, M.** Role of poly-l-lysine-coated plates and fetal calf serum concentration in sheep chondroprogenitor cell culturing. *Journal of Artificial Organs* **12**, 118-122 (2009).
- 463 Allameh, A., Esmaeli, S., Kazemnejad, S. & **Soleimani, M.** Differential expression of glutathione S-transferases P1-1 and A1-1 at protein and mRNA levels in hepatocytes derived from human bone marrow mesenchymal stem cells. *Toxicology in Vitro* **23**, 674-679 (2009).
- 464 Alebouyeh, M., Behzadian-Nejad, Q., **Soleimani, M.**, Hassan, Z. M., Salmanian, A. H. & Zali, M. R. Characterization of the interaction of undomesticated *Bacillus subtilis* spores with Caco-2 cell line. *Annals of Microbiology* **59**, 273-277 (2009).
- 465 Ajili, S. H., Ebrahimi, N. G. & **Soleimani, M.** Polyurethane/polycaprolactane blend with shape memory effect as a proposed material for cardiovascular implants. *Acta Biomaterialia* **5**, 1519-1530 (2009).
- 466 **Soleimani, M.**, Nadri, S., Salehi, M., Sobhani, A. & Hajarizadeh, A. Characterization of fibroblast, like cells from the rat olfactory bulb. *International Journal of Developmental Biology* **52**, 979-984 (2008).
- 467 **Soleimani, M.**, Mohammadi, Y., Ahmadbeigi, N., Tafti, H. A., Nassiri, S. M., Boroumand, M. A., Rabbani, S., Sahebjam, M., Moshtaghi, N. & Fayazzadeh, E. Tissue cardiomyoplasty using multi-layer cell-seeded nano-structural scaffolds to repair damaged myocardium: An experimental pilot study. *Archives of Medical Science* **4**, 364-370 (2008).
- 468 Shayestehfar, A., **Soleimani, M.**, Mousavi, S. N. & Shirazi, F. Ecological study of rotifers from Kor river, Fars, Iran. *Journal of Environmental Biology* **29**, 715-720 (2008).
- 469 Shayesteh, Y. S., Khojasteh, A., **Soleimani, M.**, Alikhasi, M., Khoshzaban, A. & Ahmadbeigi, N. Sinus augmentation using human mesenchymal stem cells loaded into a β -tricalcium phosphate/hydroxyapatite scaffold. *Oral Surgery, Oral Medicine, Oral Pathology, Oral Radiology and Endodontology* **106**, 203-209 (2008).
- 470 Nadri, S., **Soleimani, M.**, Mobarra, Z. & Amini, S. Expression of dopamine-associated genes on conjunctiva stromal-derived human mesenchymal stem cells. *Biochemical and Biophysical Research Communications* **377**, 423-428 (2008).
- 471 Nadri, S., **Soleimani, M.**, Kiani, J., Atashi, A. & Izadpanah, R. Multipotent mesenchymal stem cells from adult human eye conjunctiva stromal cells. *Differentiation* **76**, 223-231 (2008).
- 472 Kazemnejad, S., Allameh, A., **Soleimani, M.**, Gharehbaghian, A., Mohammadi, Y., Amirizadeh, N. & Esmaeili, S. Functional hepatocyte-like cells derived from human bone marrow mesenchymal stem cells on a novel 3-dimensional biocompatible nanofibrous scaffold. *International Journal of Artificial Organs* **31**, 500-507 (2008).
- 473 Kazemnejad, S., Allameh, A., Gharehbaghian, A., **Soleimani, M.**, Amirizadeh, N. & Jazayeri, M. Efficient replacing of fetal bovine serum with human platelet releasate during propagation and differentiation of human bone marrow-derived mesenchymal stem cells to functional hepatocytes-like cells. *Vox Sanguinis* **95**, 149-158 (2008).
- 474 Jazayeri, M., Allameh, A., **Soleimani, M.**, Jazayeri, S. H., Piryaee, A. & Kazemnejad, S. Molecular and ultrastructural characterization of endothelial cells differentiated from human bone marrow mesenchymal stem cells. *Cell Biology International* **32**, 1183-1192 (2008).
- 475 Jazayeri, M., Allameh, A., **Soleimani, M.**, Jazayeri, S. H., Kaviani, S. & Kazemnejad, S. Capillary network formation by endothelial cells differentiated from human bone marrow mesenchymal stem cells. *Iranian Journal of Biotechnology* **6**, 29-35 (2008).
- 476 Haghjooyjavanmard, S., Nematbakhsh, M., Monajemi, A. & **Soleimani, M.** von

- Willebrand factor, C-reactive protein, nitric oxide, and vascular endothelial growth factor in a dietary reversal model of hypercholesterolemia in rabbit. *Biomedical papers of the Medical Faculty of the University Palacký, Olomouc, Czechoslovakia* **152**, 91-95 (2008).
- 477 Gheisari, Y., **Soleimani, M.**, Azadmanesh, K. & Zeinali, S. Multipotent mesenchymal stromal cells: Optimization and comparison of five cationic polymer-based gene delivery methods. *Cytotherapy* **10**, 815-823 (2008).
- 478 Ghammamy, S., Shabani, F., Mehrani, K., Teimouri, M. B., **Soleimani, M.** & Kaviani, S. Antitumor activity of 6-(cyclohexylamino)-1,3-dimethyl-5(2-pyridyl)furo[2, 3-d]pyrimidine-2,4(1H,3H)-dione and Its Ti(IV), Zn(II), Fe(III), and Pd(II) complexes on K562 and jurkat cell lines. *Bioinorganic Chemistry and Applications* **2008** (2008).
- 479 Atashi, A., **Soleimani, M.**, Kaviani, S., Hajifathali, A. & Arefian, E. In vitro induction of fetal hemoglobin in erythroid cells derived from CD133+ cells by transforming growth factor- β and stem cell factor. *Iranian Journal of Biotechnology* **6**, 157-163 (2008).
- 480 Zandi, K., Farsangi, M. H., Nabipour, I., **Soleimani, M.**, Khajeh, K., Sajedi, R. H. & Jafari, S. M. Isolation of a 60 kDa protein with in vitro anticancer activity against human cancer cell lines from the purple fluid of the Persian Gulf sea hare, *Aplysia dactylomela*. *African Journal of Biotechnology* **6**, 1280-1283 (2007).
- 481 Nassiri, S. M., Khaki, Z., **Soleimani, M.**, Ahmadi, S. H., Jahanzad, I., Rabbani, S., Sahebjam, M., Ardalan, F. A. & Fathollahi, M. S. The similar effect of transplantation of marrow-derived mesenchymal stem cells with or without prior differentiation induction in experimental myocardial infarction. *Journal of Biomedical Science* **14**, 745-755 (2007).
- 482 Nassiri, S. M., Ahmadi, S. H., Khaki, Z., **Soleimani, M.**, Jahanzad, I., Rabbani, S., Sahebjam, M., Ardalan, F. A. & Fathollahi, M. S. Comparison between transepicaldial cell transplantations: Autologous undifferentiated versus differentiated marrow mesenchymal stem cells. *Journal of Tehran University Heart Center* **2**, 25-30 (2007).
- 483 Nadri, S., **Soleimani, M.**, Hosseni, R. H., Massumi, M., Atashi, A. & Izadpanah, R. An efficient method for isolation of murine bone marrow mesenchymal stem cells. *International Journal of Developmental Biology* **51**, 723-729 (2007).
- 484 Nadri, S. & **Soleimani, M.** Isolation murine mesenchymal stem cells by positive selection. *In Vitro Cellular and Developmental Biology - Animal* **43**, 276-282 (2007).
- 485 Nadri, S. & **Soleimani, M.** Comparative analysis of mesenchymal stromal cells from murine bone marrow and amniotic fluid. *Cytotherapy* **9**, 729-737 (2007).
- 486 Mohammadi, Y., **Soleimani, M.**, Fallahi-Sichani, M., Gazme, A., Haddadi-Asl, V., Arefian, E., Kiani, J., Moradi, R., Atashi, A. & Ahmadbeigi, N. Nanofibrous poly(ϵ -caprolactone)/poly(vinyl (alcohol)/chitosan hybrid scaffolds for bone tissue engineering using mesenchymal stem cells. *International Journal of Artificial Organs* **30**, 204-211 (2007).
- 487 Mohammadi, Y., Mirzadeh, H., Moztarzadeh, F., **Soleimani, M.** & Jabbari, E. Osteogenic differentiation of mesenchymal stem cells on novel three-dimensional poly(L-lactic acid)/chitosan/gelatin/ β -tricalcium phosphate hybrid scaffolds. *Iranian Polymer Journal (English Edition)* **16**, 57-69 (2007).
- 488 Moghadasali, R., Zeynali, B., **Soleimani, M.**, Hatami, M. & Baharvand, H. Effect of astrocyte-conditioned medium, retinoic acid and basic fibroblast growth factor on neural differentiation of mouse embryonic stem cells. *Yakhteh* **9**, 176-183+223 (2007).
- 489 Fallahi-Sichani, M., **Soleimani, M.**, Najafi, S. M. A., Kiani, J., Arefian, E. & Atashi,

- A. In vitro differentiation of cord blood unrestricted somatic stem cells expressing dopamine-associated genes into neuron-like cells. *Cell Biology International* **31**, 299-303 (2007).
- 490 Eimani, H., Mamzaji, S. S., **Soleimani, M. M.**, Abnosi, M. H., Valojerdi, M. R., Yazdi, P. E., Shahverdi, A. & Guorabi, H. Survival rate of preantral follicles derived from vitrified neonate mouse ovarian tissue by cryotop and conventional methods. *BioFactors* **31**, 117-126 (2007).
- 491 Akbari, A. A. M., Mozdarani, H., Akhlaghpour, S., Pourfatollah, A. A. & **Soleimani, M.** Evaluation of the homing of human CD34+ cells in mouse bone marrow using clinical MR imaging. *Pakistan Journal of Biological Sciences* **10**, 833-842 (2007).
- 492 Ahmadi, H., Baharvand, H., Ashtiani, S. K., **Soleimani, M.**, Sadeghian, H., Ardekani, J. M., Mehrjerdi, N. Z., Kouhkan, A., Namiri, M., Madani-Civi, M., Fattahi, F., Shahverdi, A. & Dizaji, A. V. Safety analysis and improved cardiac function following local autologous transplantation of CD133+ enriched bone marrow cells after myocardial infarction. *Current Neurovascular Research* **4**, 153-160 (2007).
- 493 Khalili, M., Alimoghaddam, K., **Soleimani, M.**, Ghodsi, P., Hayat, P., Moezi, L., Arjmand, A., Mohyedin, M. & Ghavamzadeh, A. Evaluation of the best condition for ex vivo expansion of hematopoietic stem cells for the propose of cord blood transplantation. *Yakhteh* **8**, 39-44+62 (2006).
- 494 Kadivar, M., Khatami, S., Mortazavi, Y., Shokrgozar, M. A., Taghikhani, M. & **Soleimani, M.** In vitro cardiomyogenic potential of human umbilical vein-derived mesenchymal stem cells. *Biochemical and Biophysical Research Communications* **340**, 639-647 (2006).
- 495 **Soleimani, M.**, Mozdarani, H., Pourfathollah, A. A., Mortazavi, Y., Alimoghaddam, K., Hajifathali, A. & Zonobi, Z. Increase of CXCR4 expression on expanded non-enriched cord blood CD34+ cells using MSCs. *Yakhteh* **7**, 74-79+122 (2005).
- 496 **Soleimani, M.**, Mozdarani, H., Pourfathollah, A., Mortazavi, Y., Alimoghaddam, K., Nikogoftar, M., Zonobi, Z. & Hajifathali, A. A co-culture system for expansion of nonenriched cord blood stem/progenitor cells. *Biotechnology* **4**, 310-315 (2005).
- 497 **Soleimani, M.**, Mozdarani, H., Pourfathollah, A., Mortazavi, Y., Alimoghaddam, K., Nikogoftar, M., Zonobi, Z. & Hajifathali, A. Expansion of non-enriched cord blood stem/progenitor cells CD34 + CD38 - using liver cells. *Iranian Biomedical Journal* **9**, 111-116 (2005).
- 498 Moezzi, L., Pourfathollah, A. A., Alimoghaddam, K., **Soleimani, M.** & Ardjmand, A. R. The effect of cryopreservation on clonogenic capacity and in vitro expansion potential of umbilical cord blood progenitor cells. *Transplantation Proceedings* **37**, 4500-4503 (2005).
- 499 Kadivar, M., Khatami, S., Mortazavi, Y., **Soleimani, M.**, Taghikhani, M. & Shokrgozar, M. A. Isolation, culture and characterization of postnatal human umbilical vein-derived mesenchymal stem cells. *Daru* **13**, 170-176 (2005).
- 500 Jassbi, A. R., Mehrdad, M., **Soleimani, M.**, Mirzaeian, M. & Sonboli, A. Chemical composition of the essential oils of *Bunium elegans* and *Bunium caroides*. *Chemistry of Natural Compounds* **41**, 415-417 (2005).
- 501 Baharvand, H., **Soleimani, M.** & Gourabi, H. The effect of low level laser irradiation on human embryonic stem cells. *Yakhteh* **7**, 62-67+124 (2005).
- 502 Pour, A. A. M., Salehnia, M., Pourfatollah, A. A. & **Soleimani, M.** CFU-GM like colonies derived from embryonic stem cells cultured on the bone marrow stromal cells. *Iranian Biomedical Journal* **8**, 1-5 (2004).
- 503 Saheb Zamani, M. & **Soleimani, M.** Rectilinear Floorplanning of FPGAs Using Kohonen Map. **2**, 1163-1167 (2003).
- 504 Fallah, M. J., Akbari, B., Saedinia, A. R., Karimi, M., Vaez, M., Zeinoddini, M.,

Soleimani, M. & Maghsoudi, N. Overexpression of recombinant human granulocyte colony-stimulating factor in E. coli. *Iranian Journal of Medical Sciences* **28**, 131-134 (2003).

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