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Marzieh Ebrahimi

Professor

PhD in Medical Immunology

CEO of Kian Immune Cell Co.

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IMPACT FACTOR

Google Scholar Citations: 1916

Google Scholar h-index: 23

Google Scholar i10-index: 56

EXPERIENCE

- More than 10 years of research experience in conducting research in the field of hematopoietic and cancer stem cell and immunotherapy (*Since July 2010-present*)
- Director of Flowcytometry core Facility at Royan Institute more than 13 years (*Since 2007-present*)
- Scientific Manager and director of Royan public and private cord blood bank for a bout 8 years (*2009-2017*)

SPECIALIZATION

- Cancer biology and cancer stem cells
- Immunology, Immunotherapy, Immunodiagnostic
- Stem Cells Biology & Therapy (Hematopoietic stem cells, Limbal stem cells and Mesenchymal stem cells)
- Research and developmental technology for biological products

ACADEMIC TRAININGS

- Post-Doctoral Fellow, in Oncology surgery, ZLF, Unihospitale of Basel, Switzerland, (*2009- 2010*).
- Research assistant, Royan Institute, Tehran, Iran (*2008-09*).
- Ph.D. (Immunology), Tarbiat Modares University (TMU), Tehran, Iran (*2002-07*).
- M.Sc. (Immunology), Tarbiat Modares University (TMU), Tehran, Iran (*1997-2000*).
- B.Sc., Cellular and Molecular Biology, Tehran University, Tehran, Iran (*1992-1996*).

Board Member and Executive Activities:

- Managing Director of Research and Technology, Royan institute, (2021-now)
- Member, Scientific Assessment Committee – Royan Institute for stem cell biology and Technology (2010 -now).
- Director of Assessment Committee, Royan Stem cell Technology company (2014-now).
- Director of Cancer stem cell initiative group (2016-now)
- Chairperson of the 13th Royan International Twin Congress (September 2012)
- Scientific Secretary of Cancer stem cell workshop series (2012-now)
- Scientific Secretary of Flow cytometry and cell sorting workshop series (2010-now)
- Scientific Secretary the second Cord Blood Stem Cells Symposium 2013
- Scientific program committee of international immunology congress, Tehran, Iran (ICIA-2018).
- Co-Chair of Cancer stem cell Symposium, Feb 2016.
- Co-Chair of Cord Blood Stem Cells Symposium, May 3 2007.
- Co-chair of 1st Royan Workshop on: Limbal Stem Cell Culture in vitro, March 11-12, 2006.
- Establishment Public Royan Cord Blood Bank (2007)
- Establishment Royan Amniotic Membrane Bank (2010)

Professional Membership

- ISSCR membership 2011-2015
- Membership of Iranian Immunology and Allergy Society, 2000- present.

HONOURS & AWARDS

1. Winner of best scientist in ACECR, Tehran, Iran 2019
2. Best oral presenter in Burn Congress 2018
3. The thirds winner of novel idea in the biology and technology, Tehran University. 2018
4. Nomine of ichallenge in filed of introduce novel diabetic dressing, Iran (2017)
5. Winner of best women researcher award from Vice Presidency for Women and Family Affairs (2008)

Grants:

1. Counsel for stem cell science and technology in field of NK Therapy in malignant brain tumors, Iran (2021)
2. Iranian national Cancer control foundation in filed of novel blood biomarker to early detection of drug resistance in gastric cancer patient (2018)
3. NIMAD (National Institute for medical research development) in filed of novel blood biomarker to early detection of metastasis in gastric cancer patient, Iran (2017)

4. Counsel for stem cell science and technology in filed of cancer stem cell research, Iran (2015)
5. Counsel for stem cell science and technology in filed of hematopoietic stem cell expansion, Iran (2015)
6. Counsel for stem cell science and technology in filed of NK activation to Target GB, Iran (2015)

Technology Development and Transfer

1. Blood stem cell cryopreservation Technology: (Technology Transferred to Royan Stem cell Technology Company at 2017)
2. Establishment the Amniotic Membrane bank and patented products named as Acure-C, Acure-L and lyophilized AM (Technology Transferred to Royan Stem cell Technology company at 2019)
3. Produce novel biological product for healing of wound patented products named as AMEED (Ocular use), DIAMX (Diabetic ulcers use), BEDAMX (Bedsore ulcers use).

Publications (Articles, Books)

Correspondence :*

1. V Varmazyari, H Ghafoorifard, H Habibiyani, **M Ebrahimi**, S Ghafouri-Fard, A microfluidic device for label-free separation sensitivity enhancement of circulating tumor cells of various and similar size. Journal of Molecular Liquids 2021, 349(1):118192
2. Sahar Samieyan Dehkordi , Seyed Hadi Mousavi, **Marzieh Ebrahimi***, S Haban Alizadeh, Amir Abbas Hedayati Asl, Monireh Mohammad, Bahareh Aliabedi .Upregulation of hsa-miR-625-5p Inhibits Invasion of Acute Myeloid Leukemia Cancer Cells through ILK/AKT Pathway. 2022 Feb;24(2):76-84.
3. M Azimi, M Totonchi, **M Ebrahimi***, Determining The Role of MicroRNAs in Self-Renewal, Metastasis and Resistance to Drugs in Human Gastric Cancer Based on Data Mining Approaches: A Systematic Review. Cell J. 2022 Jan;24(1):1-6.
4. A Shokouhifar, J Firouzi, M Nouri, GA Sarab, **M Ebrahimi***. NK cell upraise in the dark world of cancer stem cells Cancer Cell International 2021, 21 (1), 1-15
5. Mohammad Azadbakht, Ali Sayadmanesh , Naghme Nazer, Amirhossein Ahmadi, Sara Hemmati, Hoda Mohammadzade, **Marzieh Ebrahimi**, Hossein Baharvand, Babak Khalaj, Mahmoud Reza Aghamaali, Mohsen Basiri. CRISPRi-mediated knock-down of PRDM1/BLIMP1 programs central memory differentiation in ex vivo-expanded human T cells. Azadbakht et al., BioImpacts, 2021, 11(5).
6. H Sadeghi-Abandansari, S Pakian, MR Nabid, **M Ebrahimi**, A RezaLotfi Local co-delivery of 5-fluorouracil and curcumin using Schiff's base cross-linked injectable hydrogels for colorectal cancer

combination therapy. *European Polymer Journal* 2021,157, 110646.

7. A Ghamari, P Pakzad, A Majd, **M Ebrahimi**, AA Hamidieh. Design and Production An Effective Bispecific Tandem Chimeric Antigen Receptor on T Cells against CD123 and Folate Receptor β towards B-Acute Myeloid Leukaemia Blasts *Cell Journal (Yakhteh)* 2021, 23 (6), 650.
8. Parisa Sahranavardfard, Zahra Madjd, Amir Nader Emami Razavi, Ali Reza Ghanadan, Javad Firouzi, Pardis Khosravani, Saeid Ghavami, Esmaeil Ebrahimie, **Marzieh Ebrahimi***. An Integrative Analysis of The Micro-RNAs Contributing in Stemness, Metastasis and B-Raf Pathways in Malignant Melanoma and Melanoma Stem Cell *Cell Journal (Yakhteh)* 2021 23 (3), 261
9. Azimian-Zavareh V, Dehghani-Ghobadi Z, **Ebrahimi M***, Mirzazadeh K, Nazarenko I, Hossein G. Wnt5A modulates integrin expression in a receptor-dependent manner in ovarian cancer cells. *Sci Rep.* 2021 Mar 15;11(1):5885. doi: 10.1038/s41598-021-85356-6.
10. Shokouhifar A, Anani Sarab G, Yazdanifar M, Fereidouni M, Nouri M, **Ebrahimi M***. Overcoming the UCB HSCs -Derived NK cells Dysfunction through Harnessing RAS/MAPK, IGF-1R and TGF- β Signaling Pathways. *Cancer Cell Int.* 2021 Jun 7;21(1):298. doi: 10.1186/s12935-021-01983-z.
11. Azimi M, Totonchi M, Rahimi M, Firouzi J, Sahranavard P, Emami Razavi A, Memari F, Kamali F, **Ebrahimi M***.An integrated analysis to predict micro-RNAs targeting both stemness and metastasis in human gastric cancer. *J Gastroenterol Hepatol.* 2021 Feb;36(2):436-445. doi: 10.1111/jgh.15176. Epub 2020 Aug 31.PMID: 32633423
12. Khani AT, Sharifzad F, Mardpour S, Hassan ZM, **Ebrahimi M***.Tumor extracellular vesicles loaded with exogenous Let-7i and miR-142 can modulate both immune response and tumor microenvironment to initiate a powerful anti-tumor response.*Cancer Lett.* 2021 Mar 31;501:200-209. doi: 10.1016/j.canlet.2020.11.014.
13. Barati M, Akhondi M, Mousavi NS, Haghparast N, Ghodsi A, Baharvand H, **Ebrahimi M**, Hassani SN Pluripotent Stem Cells: Cancer Study, Therapy, and Vaccination. *Stem Cell Rev Rep.* 2021 *Stem Cell Reviews and Reports* 17 (6), 1975-1992.
14. Norouzi M, Firouzi J, Sodeifi N, **Ebrahimi M**, Miller DW. Salinomycin-loaded injectable thermosensitive hydrogels for glioblastoma therapy. *Int J Pharm.* 2021 Apr 1;598:120316. doi: 10.1016/j.ijpharm.2021.120316.
15. Farokhimanesh S, Forouzandeh Moghadam M, **Ebrahimi M**, Hashemi ZS.Metastasis Inhibition by Cell Type Specific Expression of BRMS1 Gene under The Regulation of miR200 Family Response Elements.*Cell J.* 2021 Jul;23(2):225-237.
16. S Vafaei, R Roudi, Z Madjd, AR Aref, **M Ebrahimi***, Potential theranostics of circulating tumor cells and tumor-derived exosomes application in colorectal cancer. *Cancer Cell International*, 2020 20 (1), 1-15.
17. Morteza Zarrabi, Elaheh Afzal, Mohammad Hassan Asghari, **Marzieh Ebrahimi***. Combination of SB431542, Chir9901, and Bpv as a novel supplement in the culture of umbilical cord blood hematopoietic stem cells. *Stem cell research & therapy* 2020. 11 (1), 1-9.

18. Somayeh Vafaei, Leili Saeednejad Zanjani, Zohreh Habibi Shams, Marzieh Naseri, Fahimeh Fattahi, Elmira Gheytnchi, Mahdi Alemrajabi, **Marzieh Ebrahimi***, Zahra Madjd. Low expression of Talin1 is associated with advanced pathological features in colorectal cancer patients. *Scientific reports* 2020, 10 (1), 1-18
19. Faezeh Keyghobadi, Maryam Mehdipour, Vahab Nekoukar, Javad Firouzi, Abolfazl Kheimeh, Fatemeh Nobakht Lahrood, Vajihe Azimian Zavareh, Masoumeh Azimi, Mahsa Mohammadi, Niloofar Sodeifi, **Marzieh Ebrahimi***. Long-Term Inhibition of Notch in A-375 Melanoma Cells Enhances Tumor Growth Through the Enhancement of AXIN1, CSNK2A3, and CEBPA2 as Intermediate Genes in Wnt and Notch Pathways. *Frontiers in oncology*, 2020. 10, 531
20. S Moradian, **M Ebrahimi**, A Kanaani, A Faramarzi, S Safi. Topical Umbilical Cord Serum for Corneal Epithelial Defects after Diabetic Vitrectomy, *Journal of Ophthalmic & Vision Research*, 2020, 15 (2), 160
21. Nasim Goudarzi, Ronak Shabani, **Marzieh Ebrahimi**, Amir Baghestani, Ehsan Dehdashtian, Gelareh Vahabzadeh, Mansoure Soleimani, Fatemeh Moradi, Majid Katebi. Comparative phenotypic characterization of human colostrum and breast milk-derived stem cells. *Human cell*, 2020 33 (2), 308-317.
22. Rajae Z, Khoei S, Mahdavian A, Shirvalilou S, Mahdavi SR, **Ebrahimi M**. Radio-Thermo-Sensitivity Induced by Gold Magnetic Nanoparticles in the Monolayer Culture of Human Prostate Carcinoma Cell Line DU145. *Anticancer Agents Med Chem*. 2020, 20, 3 315-324.
23. S Farokhimanesh, MF Moghadam, **M Ebrahimi**. Metastasis inhibition by BRMS1 and miR-31 replacement therapy in claudin-low cell lines. *Iranian Journal of Basic Medical Sciences* 2020 23 (2), 264
24. Farzaneh Sharifzad, Soura Mardpour, Saeid Mardpour, Esmaeil Fakharian, Adeleh Taghikhani, Amirhossein Sharifzad, Sahar Kiani, Yasaman Heydarian, Marek J Łos, Zahra Azizi, Saeid Ghavami, Amir Ali Hamidieh, **Marzieh Ebrahimi***. HSP70/IL-2 Treated NK Cells Effectively Cross the Blood Brain Barrier and Target Tumor Cells in a Rat Model of Induced Glioblastoma Multiforme (GBM) *International Journal of Molecular Sciences* 2020 21 (7), 2263.
25. Adeleh Taghikhani, Farzin Farzaneh, Farzaneh Sharifzad, Soura Mardpour, **Marzieh Ebrahimi***, Zuhair Mohammad Hassan. Engineered Tumor-Derived Extracellular Vesicles: Potentials in Cancer Immunotherapy. *Frontiers in Immunology* 2020 11
26. Mahsa Rahimi, Ali Sharifi-Zarchi, Nosratollah Zarghami, Lobat Geranpayeh, **Marzieh Ebrahimi***, Effat Alizadeh. Down-regulation of miR-200c and up-regulation of miR-30c target both stemness and metastasis genes in breast cancer. *Cell Journal (Yakhteh)* 2020 21 (4), 467
27. Saberi Ansar E, Eslahchii C, Rahimi M, Geranpayeh L, **Ebrahimi M***, Aghdam R, Kerdivel G. Significant random signatures reveals new biomarker for breast cancer. *BMC Med Genomics*. 2019 Nov 8;12(1):160.
28. Rajayi H, Tavasolian P, RezaLotfi A, **Ebrahimi M***. Cancer Stem Cells Targeting; the Lessons from the Interaction of the Immune System, the Cancer Stem Cells and the Tumor Niche. *Int Rev Immunol*. 2019;38(6):267-283.
29. Farzaneh Sharifzad, Hamed Yasavoli Sharahi, Saeid Mardpour, Esmaeil Fakharian, Hassan

Nikuinejad, Yasaman Heydari, Soura Mardpour, Adeleh Taghikhani, Reza Khellat, Somayeh Vafaei, Sahar Kiani, Saeid Ghavami, Marek Łos, Mehdi Nouredini, **Marzieh Ebrahimi***, Javad Verdi, Amir Ali Hamidieh. Neuropathological and genomic characterization of glioblastoma induced rat model: How similar is it to humans for targeted therapy? *Journal of cellular physiology* 234 (12), 22493-22504

30. Javadi A, Keighobadi F, Nekoukar V, **Ebrahimi M**. Finite-Set Model Predictive Control of Melanoma Cancer Treatment Using Signaling Pathway Inhibitor of Cancer Stem Cell. *IEEE/ACM Trans Comput Biol Bioinform*. 2019 Sep
31. Khoshchehreh R, Totonchi M, Carlos Ramirez J, Torres R, Baharvand H, Aicher A, **Ebrahimi M***, Heeschen C. Epigenetic reprogramming of primary pancreatic cancer cells counteracts their in vivo tumorigenicity. *Oncogene*. 2019 Aug;38(34):6226-6239.
32. Assessment Zarrabi M, Afzal E, Asghari MH, **Ebrahimi M***. Short-Term Engraftment Potential of Ex Vivo Expanded Hematopoietic Stem Cells Using Normal Fetal Mouse in Utero Transplantation Model. *Cell J*. 2019 Oct;21(3):259-267.
33. Bakhshi M, Asadi J, **Ebrahimi M***, Moradi AV, Hajimoradi M. Increased expression of miR-146a, miR-10b, and miR-21 in cancer stem-like gastro-spheres. *J Cell Biochem*. 2019 Oct;120(10):16589-16599.
34. RezaLotfi A, Ahmadian E, Aazami H, Solgi G, **Ebrahimi M***. Gastric Cancer Stem Cells Effect on Th17/Treg Balance; A Bench to Beside Perspective. *Front Oncol*. 2019 Apr 5;9:226.
35. Sahranavardfard P, Firouzi J, Azimi M, Khosravani P, Heydari R, Emami Razavi A, Dorraj M, Keighobadi F, **Ebrahimi M***. MicroRNA-203 reinforces stemness properties in melanoma and augments tumorigenesis in vivo. *J Cell Physiol*. 2019 Nov;234(11):20193-20205.
36. Sharifzad F, Ghavami S, Verdi J, Mardpour S, Mollapour Sisakht M, Azizi Z, Taghikhani A, Łos MJ, Fakharian E, **Ebrahimi M***, Hamidieh AA. Glioblastoma cancer stem cell biology: Potential theranostic targets. *Drug Resist Updat*. 2019 Jan;42:35-45.
37. Shokraii F, Moharrami M, Motamed N, Shahhoseini M, Totonchi M, Ezzatizadeh V, Firouzi J, Khosravani P, **Ebrahimi M***. Histone Modification Marks Strongly Regulate CDH1 Promoter in Prostospheres as A Model of Prostate Cancer Stem Like Cells. *Cell J*. 2019 Jul;21(2):124-134.
38. Rahimi M, Sharifi-Zarchi A, Firouzi J, Azimi M, Zarghami N, Alizadeh E, **Ebrahimi M***. An integrated analysis to predict micro-RNAs targeting both stemness and metastasis in breast cancer stem cells. *J Cell Mol Med*. 2019
39. Rezaie E, Nekoie H, Miri A, Oulad G, Ahmadi A, Saadati M, Bozorgmehr M, **Ebrahimi M***, Salimian J. Different frequencies of memory B-cells induced by tetanus, botulinum, and heat-labile toxin binding domains. *Microb Pathog*. 2019 Feb;127:225-232
40. Taghikhani A, Hassan ZM, **Ebrahimi M***, Moazzeni SM. microRNA modified tumor-derived exosomes as novel tools for maturation of dendritic cells. *J Cell Physiol*. 2019
41. Abbaspanah B, Momeni M, **Ebrahimi M**, Mousavi SH. Advances in perinatal stem cells research: a precious cell source for clinical applications. *Regen Med*. 2018 Aug 21.

42. Shayan Asl N, Nejat F, Mohammadi P, Nekoukar A, Hesam S, **Ebrahimi M***, Jadidi K. Amniotic Membrane Extract Eye Drop Promotes Limbal Stem Cell Proliferation and Corneal Epithelium Healing. *Cell J.* 2019 Jan;20(4):459-468.
43. Nouri M, **Ebrahimi M**, Bagheri T, Fatemi MJ, Najafbeygi A, Araghi S, Molaee M. Healing Effects of Dried and Acellular Human Amniotic Membrane and Mepitelas for Coverage of Skin Graft Donor Areas; A Randomized Clinical Trial. *Bull Emerg Trauma.* 2018 Jul;6(3):195-200.
44. Zarrabi M, Afzal E, **Ebrahimi M***. Manipulation of Hematopoietic Stem Cell Fate by Small Molecule Compounds. *Stem Cells Dev.* 2018 Aug 22.
45. Farzan R, Moeinian M, Abdollahi A, Jahangard-Rafsanjani Z, Alipour A, **Ebrahimi M**, Khorasani G. Effects of amniotic membrane extract and deferoxamine on angiogenesis in wound healing: an in vivo model. *J Wound Care.* 2018 Jun 1;27(Sup6):S26-S32.
46. Azimian-Zavareh V, Hossein G*, **Ebrahimi M***, Dehghani-Ghobadi Z. Wnt11 alters integrin and cadherin expression by ovarian cancer spheroids and inhibits tumorigenesis and metastasis. *Exp Cell Res.* 2018 May 15.
47. Alireza Baradaran-Rafii, Niloufar Shayan Asl, **Marzieh Ebrahimi***, Sayena Jabbehdari, Shahram Bamdad, Danial Roshandel, Medi Eslani, Maryam Momeni. The role of amniotic membrane extract eye drop (AMEED) in in vivo cultivation of limbal stem cells. *The Ocular Surface* 2018 Jan;16(1):146-153
48. Rajaei Z, Khoei S, Mahdavi SR, **Ebrahimi M**, Shirvalilou S, Mahdavian A. Evaluation of the effect of hyperthermia and electron radiation on prostate cancer stem cells. *Radiat Environ Biophys.* 2018 May;57(2):133-142.
49. Momeni M, Zarehaghghi M, Hajimiri M, Khorasani G, Dinarvand R, Nekookar A, Sodeifi N, Khosravani P, Shayanasl N, **Ebrahimi M***. In vitro and in vivo investigation of a novel amniotic-based chitosan dressing for wound healing. *Wound Repair Regen.* 2018 Jan;26(1):87-101.
50. Zarrabi M, Afzal E, Asghari MH, Mohammad M, Es HA, **Ebrahimi M***. Inhibition of MEK/ERK signalling pathway promotes erythroid differentiation and reduces HSCs engraftment in ex vivo expanded haematopoietic stem cells. *J Cell Mol Med.* 2018 Mar;22(3):1464-1474.
51. Shirzad N, Bordbar S, Goodarzi A, Mohammad M, Khosravani P, Sayahpour F, Baghaban Eslaminejad M, **Ebrahimi M***. Umbilical Cord Blood Platelet Lysate as Serum Substitute in Expansion of Human Mesenchymal Stem Cells. *Cell J.* 2017 Oct;19(3):403-414.
52. Roudi R, **Ebrahimi M**, Shariftabrizi A, Madjd Z. Cancer stem cell research in Iran: potentials and challenges. *Future Oncol.* 2017 Aug;13(20):1809-1826.
53. Sepantafar M, Maheronnaghsh R, Mohammadi H, Radmanesh F, Hasani-Sadrabadi MM, **Ebrahimi M**, Baharvand H. Engineered Hydrogels in Cancer Therapy and Diagnosis. *Trends Biotechnol.* 2017 Nov;35(11):1074-1087.
54. Dadras P, Atyabi F, Irani S, Ma'mani L, Foroumadi A, Mirzaie ZH, **Ebrahimi M**, Dinarvand R. Formulation and evaluation of targeted nanoparticles for breast cancer theranostic system. *Eur J Pharm Sci.* 2017 Jan 15;97:47-54.

55. Roudi R., **Ebrahimi M***, Madjd Z*. Evidence for embryonic stem-like signature and epithelial-mesenchymal transition features in the spheroid cells derived of lung adenocarcinoma. Tumor Biology, 2016
56. Hajimoradi M, Mohammad Hassan Z*, **Ebrahimi M***, Soleimani M, Bakhshi M, Firouzi J, Samani FS. STAT3 is Overactivated in Gastric Cancer Stem-Like Cells. Cell J. 2016 Winter;17(4):617-28. Epub 2016.
57. Dashti A, **Ebrahimi M**, Hadjati J, Memarnejadian A, Moazzeni SM*. Dendritic cell based immunotherapy using tumor stem cells mediates potent antitumor immune responses. Cancer Lett. 2016 .
58. Nouri M, Deezagi A, **Ebrahimi M**. Reprogramming of human peripheral blood monocytes to erythroid lineage by blocking of the PU-1 gene expression. Ann Hematol. 2016 Mar;95(4):549-56.
59. Roudi R, **Ebrahimi M**, Sabet MN, Najafi A, Nourani MR, Fomeshi MR, Samadikuchaksaraei A, Sharifatabrizi A, Madjd Z*. Comparative gene-expression profiling of CD133(+) and CD133(-) D10 melanoma cells. Future Oncol. 2015 Sep;11(17):2383-93.
60. Abdollahi P, **Ebrahimi M***, Motamed N*, Samani FS. Silibinin affects tumor cell growth because of reduction of stemness properties and induction of apoptosis in 2D and 3D models of MDA-MB-468. 2015 Jun Anticancer Drugs; 26(5):487-97.
61. Sahraneshin Samani F, **Ebrahimi M***, Zandieh T, Khoshchehreh R, Baghaban Eslaminejad M, Aghdami N, Baharvand H. In Vitro Differentiation of Human Umbilical Cord Blood CD133(+) Cells into Insulin Producing Cells in Co-Culture with Rat Pancreatic Mesenchymal Stem Cells. Cell J. 2015
62. Ganji F., Abron S., Baharvand H., Aghdami N., **Ebrahimi M**., Differentiation potential of O Bombay Human induced pluripotent stem cells and human embryonic stem cells into fetal erythrocyte like cells, Cell J. 2015
63. Hosseini Zand H, **Ebrahimi M***, Abdekhodaie MJ*. Agitation increases expansion of cord blood hematopoietic cells and promotes their differentiation into myeloid lineage. Cytotechnology. 2015
64. Fomeshi MR, **Ebrahimi M***, Mowla SJ, et al.. Evaluation of the expressions pattern of miR-10b, 21, 200c, 373 and 520c to find the correlation between epithelial-to-mesenchymal transition and melanoma stem cell potential in isolated cancer stem cells. Cell Mol Biol Lett. 2015 Sep;20(3):448-65.
65. Jafari Malek S, Khoshchehreh R, Goodarzi N, Khoshayand MR, Amini M, Atyabi F, Esfandiyari-Manesh M, Tehrani S, Mohammad Jafari R, Maghazei MS, Alvandifar F, **Ebrahimi M***, Dinarvand R. cis-Dichlorodiamminoplatinum (II) glyconanoparticles by drug-induced ionic gelation technique targeted to prostate cancer: Preparation, optimization and in vitro characterization. Colloids Surf B Biointerfaces. 2014 Oct 1;122:350-8.
66. Pegah Abdollahi, **Marziyeh Ebrahimi***, Nasrin Motamed, Pardis Khosravani, Characterization and comparison of MDA-MB468 cancer stem cell properties in 2D and 3D culture, New Cellular and Molecular Biotechnology Journal, 2014/12/15, 4 (16) 9-16
67. Roudi R, Madjd Z, **Ebrahimi M***, Samani FS, Samadikuchaksaraei A. CD44 and CD24 cannot act

as cancer stem cell markers in human lung adenocarcinoma cell line A549. *Cell Mol Biol Lett.* 2014 Mar;19(1):23-36. doi: 10.2478/s11658-013-0112-1.

68. Ebrahimkhani S, Farjadian S, **Ebrahimi M***. The Royan Public Umbilical Cord Blood Bank: Does It Cover All Ethnic Groups in Iran Based on HLA Diversity? *Transfus Med Hemother.* 2014 Apr;41(2):134-8.
69. Sahraneshin Samani F, Moore JK, Khosravani P, **Ebrahimi M**. Features of free software packages in flow cytometry: a comparison between four non-commercial software sources. *Cytotechnology.* 2014 Aug;66(4):555-9.
70. Jangravi Z, Alikhani M, Arefnezhad B, Sharifi Tabar M, Taleahmad S, Karamzadeh R, Jadaliha M, Mousavi SA, Ahmadi Rastegar D, Parsamatin P, Vakilian H, Mirshahvaladi S, Sabbaghian M, Mohseni Meybodi A, Mirzaei M, Shahhoseini M, **Ebrahimi M**, Piryaee A, Moosavi-Movahedi AA, Haynes PA, Goodchild AK, Nasr-Esfahani MH, Jabbari E, Baharvand H, Sedighi Gilani MA, Gourabi H, Salekdeh GH, A fresh look at the male-specific region of the human Y chromosome ,*J Proteome Res.* 2013 Jan 4;12(1):6-22.
71. Zahabi A, Shahbazi E, Ahmadi H, Hassani SN, Totonchi M, Taei A, Masoudi N, Ebrahimi M, et al. A new efficient protocol for directed differentiation of retinal pigmented epithelial cells from normal and retinal disease induced pluripotent stem cells. *Stem Cells Dev.* 2012 Aug 10;21
72. Khoshchehreh R, **Ebrahimi M***, et al. Rat Pancreatic Stromal Cells (PSC) affect Differentiation of Human Mesenchymal Stem Cells (hMSC) into Insulin-Producing Cells In Vitro (cell science and therapy 2012 3,5, 1-8).
73. Shayan N, **Ebrahimi M***, Beiki B, Janzamin E. A non-rotational, computer-controlled suspension bioreactor for expansion of umbilical cord blood mononuclear cells. *Biotechnol Lett.* 2012 Nov;34(11):2125-31.
74. Azarpira N., Amini M., Kojuori J., **Ebrahimi M.**, et al., Assesment of scientific thinking in basic science in the Iranian second national Olympiad, *BMC* 2012 5:61
75. Ahmadian Kia N, Bahrami AR, **Ebrahimi M**, Matin MM, Neshati Z, Almohaddesin MR, Aghdami N, Bidkhorri HR. Comparative analysis of chemokine receptor's expression in mesenchymal stem cells derived from human bone marrow and adipose tissue. *J Mol Neurosci.* 2011 Jul;44(3):178-85.
76. Elahe Afzal, **Marzieh Ebrahimi***, et al. Potential Role of Heat Shock Proteins in Neural Differentiation of Murine Embryonal Carcinoma Stem Cells (P19), *Cell Biol Int.* 2011 Jul 1;35(7):713-20
77. Farzaneh Z, Pournasr B, **Ebrahimi M**, Aghdami N, Baharvand H, Enhanced functions of human embryonic stem cell-derived hepatocyte-like cells on three-dimensional nanofibrillar surfaces. *Stem Cell Rev.* 2010 Dec;6(4):601-10
78. **M. Ebrahimi**, N. Aghdami; The Applications of Bone Marrow-Derived Stem Cells to Induce Tolerance and Chimerism in Organ Transplantation. *Int J Org Transplant Med* 2010; Vol. 1 (4) 157-169.
79. **Ebrahimi M***, Mohammadi P, Daryadel A, Baharvand H. Assessment of heat shock protein (HSP60, HSP72, HSP90, and HSC70) expression in cultured limbal stem cells

following air lifting. **Mol Vis.** 2010 Aug 18;16:1680-8.

80. Baradaran-Rafii A, **Ebrahimi M**, et al. Midterm outcomes of autologous cultivated limbal stem cell transplantation with or without penetrating keratoplasty. *Cornea.* 2010 May;29(5):502-9.
81. Spagnoli GC, **Ebrahimi M**, Iezzi G, Mengus C, Zajac P, Contemporary immunotherapy of solid tumors: from tumor-associated antigens to combination treatments. *Curr Opin Drug Discov Devel.* 2010 Mar;13(2):184-92.
82. Ahmadiankia N, **Ebrahimi M**, Hosseini A, Baharvand H, Effects of different extracellular matrices and co-cultures on human limbal stem cell expansion in vitro. *Cell Biol Int.* 2009 Sep;33(9):978-87.
83. **Ebrahimi M**, Taghi Abadi E., Baharvand H., Limbal Stem Cell In review, *J Ophthalmic Vis Res* 2009; 4 (1): 40-58.
84. Brand, P. Rebull, C. P. Engelfriet, H. W. Reesink, Y. Beguin, G. Kögler, **M. Ebrahimi**, et al., Cord blood banking, *Vox Sanguinis*, 2008, **95**, 335–348
85. Mohammad Reza Bagheban Eslaminnejad, Soura Mardpour, **Marzieh Ebrahimi**. Growth kinetics and in vitro ageing of mesenchymal stem cells isolated from Rat adipose versus bone marrow tissues, Iranian journal of Veterinary Surgery (IJVS), 2008; 3(2); 9-20.
86. Hossein Baharvand, Manzar Heidari, **Marzieh Ebrahimi**, et al., Proteomic analysis of epithelium-denuded human amniotic membrane as a limbal stem cell niche, *Molecular Vision* 2007; 13:1711-21.
87. Hossein Baharvand, **Marzieh Ebrahimi**, Mohammad Ali Javadi, Comparison of characteristics of cultured limbal cells on denuded amniotic membrane and fresh conjunctival, limbal and corneal tissues, *Develop. Growth Differ.* (2007) **49**, 241–251
88. Mohammadian J., Naderi Manesh H., Maghosudi N, Khalil zadeh R., Shojasadati SA, **Ebrahimi M**, Effect of Oxidative Stress on the production of Recombinant human interferon gamma in Esherchia Coli., *Biothechnol Appl Biochem*, 2005 41 (pt1) 37-42.
89. T.Ghazanfari, Z.M.Hassan, **M. Ebrahimi**, Immunomodulatory Activity of a Protein Isolated from Garlic Extract on Delayed Type Hypersensitivity, *International Immunopharmacology* 2002 2 1541-49.

Book Publications:

Ebrahimi M., Janzamin E., Samani F.S., KKhosravani P. Prinicipals and methods in flowcytometry (2013)

Essential Cell Biology, (Second Edition 2004, Bruce Alberts, Dennis Bray, Karen Hopkin, et all), Translated by H.Baharvand, B.Mirhabibi, A., Sheikhan, S.M.M. Hashemi, D. Sabour, Sh. Zarei Moradi, **M. Ebrahimi**, N.Zare, M.Pakzad, P.Farzaneh, 2006.

Ebrahimi M, Kharazi Sh., Shaker Z., Haji moradi M., Cell and Molecular Immunology, (Translation), Boshra Publisher.

Practical Experiences

- Technology development
- Quality control assessment
- Stem Cell Culture (Adult/Embryonic/Cancer Stem cell), Differentiation (Epithelial, Cardiomyocyte, Blood Cell)
- Immune cell culture (T cell, NK cell, Dendritic cells)
- Immunoassays
- Blood cell differentiation from iPSCs and ESCs
- Protein Purification, Chromatography Analysis , Electrophoresis, Western Blot, ELIZA.
- PCR, Q RT-PCR

Language

English: Speaking and Writing

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