

# Curriculum Vitae

## Personal Data:

Name: **SAEID**

Sure name: **ABROUN**

Sex: **Male**

Date and Place of Birth: **Aug. 17. 1961- Tehran, Iran**

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Professional Address: Dept. of Hematology, School of Medical Sciences

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Langages writing and spoken : *Persian , English, Japanese (Just parking)*

## Activity:

Education 40%, Research 20%, Clinic 30%, Administration 10%.

**Distribution of Days** : University 4 Days, Royan institut 2 Day

## Present Position :

**2021.03 Up to now** Professor of Hematology in Department of Hematology and Blood Banking.

Faculty of Medical Sciences, Tarbiat Modares University, Tehran, IR.Iran

**2012.10 - 2021.02:** Associated professor in Hematology and Blood Banking Department.

School of Medical Sciences, Tarbiat Modares University, Tehran, IR.Iran

**2012.04 Up to now:** Editor board of Scientific world journal.

**2008. 05 Up to now:** General Director's Deputy & Lab. Director in Royan Stem cell Technology

Company (Royan Cord Blood stem cell Bank), Tehran, IR-Iran

**2008 Up to now:** Diagnostic clinical laboratory Director, Tehran, IR-Iran

**2007. 11. up to now:** Editor associate in Cell (Yakhteh) Medical Journal. Tehran, IR-Iran

## Diplomas and Educations:

**2018- up to now: Clinical pathology fellowship.**

Shiras Medical School, Shiraz Medical Sciences University. Shiraz, IR-Iran.

**2004.10-2007.08: Post doc fellowship in molecular Hematology and Molecular Oncology.**

Cell Bio Signal Analysis, Graduate School of Medicine.

Yamaguchi University, Japan.

**2000.04-2004.03: Ph.D in Hematology.**

Department of Immunohematology, (Myeloma Study Group), Graduate School of Medicine. Yamaguchi University, Japan.

**1995.10- 1988.10: M.Sc. in Hematology and blood banking.**

Dept. of Hematology and Blood Bank. School of Medical Sciences. Tarbiat Modarres University (TMU). Tehran, IR.Iran

**1990.10-1995.02: B.Sc in Biology.**

Payame Nor University. Tehran. IR.IRAN

**1984.10-1987.06 Medical laboratory technicians training**

Shahid Beheshty Medical University. Tehran. IR.IRAN

## Teaching

### All for postgraduate students:

- Advanced Molecular Hematology (More than ten times, each time 54 hours in semester).
- Stem Cell, Cancer and Oncogenes (Eight times, each time 56 hours in semester).
- Stem cell transplantation (Five times, each time 56 hours in semester).
- Pathophysiology and hematopoietic Disorders (Seven times, each time 36 hour in semester).
- Cell bio-signaling analysis (Eight times, each time 36 hours in semester).
- Basic and advance Immunology (Seven times, each time 36 hours in semester).
- Stem cell biology. (Six times, 36 hour in semester).
- Cellular and molecular biology (More than ten times, each time 54 hours in semester).
- Therapeutic methods in Cancer (Five times, each time 36 hours in semester).
- Electron microscopic technique (Four times, each time 36 hours in semester).

## Research Work:

### Clinical: Currently Doing

- Hematopoietic Stem Cell transplantation in Pediatrics cerebral palsy.
- Mesenchymal Stem Cell transplantation in Pediatrics cerebral palsy.
- Mesenchymal Stem Cell transplantation in autism.
- Develop of amniotic membrane as good layer for wound healing.
- Investigating the possibility of predicting the occurrence of chronic Graft Versus-Host Disease (cGVHD) in children after allogeneic hematopoietic Stem cell transplantation by studying the gene expression profile of T and NK immune cells subtypes.

### Cutting Edge: Currently Doing.

- Herbal Medicine to reduce dose of Chemotherapy Drugs
- Evaluation of induced Anti miR19a to overcome drug resistance in myeloma cell line.
- Develop of cord blood Mesenchymal Stem Cell banking for allograft transplantation.
- HLA and auto immune disease in Iran.
- Royan cord blood Bank and alleles frequency in Iran.
- Investigation of correction of IVSLL-1G>A mutation in B-globin gene in human hematopoietic Stem Cells of Beta thalassemia patients using Crisper Cas9.
- The roles of CD45 on effect of IL-6 signaling in biology of myeloma cell.

## Administration activity

### 2007.09 up to now

- Executive board examiner in MSc & PhD entrance exam at ministry of health and medical education (examiner in cellular and molecular biology subject).
- Executive board examiner for MSC and PhD entrance exam in ministry of Sciences, research and technology (examiner in cellular and molecular biology, hematology, and immunology subjects).
- Executive board member of international journal of fertility and sterility.
- Executive board member of The Cell (Yakhteh) medical Journal.

- Executive board member of education and research program in department of hematology Tarbiat Modares University.
- Executive board member of Royan Cord blood stem cell bank, transplantation committee
- Executive board member in Stem cell research center, Royan Institute. Tehran, IR-Iran

## Publication:

### A: Books (Persian Languages):

- 1- Cancer Terminology (2 Volumes)
- 2- Oncogenes and Cancer
- 3- Atlas of Hematology
- 4- Cell Biology (3 volumes)
- 5- Erythrocyte and disease
- 6- Transfusion Medicine (Re-published)

### B: Articles (From NCBI, PUB Med)

- 1- Mousavi SH, Zarrabi M, **Abroun S**, Ahmadipناه M, Abbaspanah B. Umbilical cord blood quality and quantity: Collection up to transplantation. *Asian J Transfus Sci*. 2019 Jul-Dec;13(2):79-89. doi: 10.4103/ajts.AJTS\_124\_18.
- 2- Sabour Takanlu J, Aghaie Fard A, Mohammdi S, Hosseini Rad SMA, **Abroun S**, Nikbakht M. Indirect Tumor Inhibitory Effects of MicroRNA-124 through Targeting EZH2 in The Multiple Myeloma Cell Line. *Cell J*. 2020 Apr;22(1):23-29.
- 3- Ajami M, Soleimani M, **Abroun S**, Atashi A. Comparison of cord blood CD34 + stem cell expansion in coculture with mesenchymal stem cells overexpressing SDF-1 and soluble /membrane isoforms of SCF. *J Cell Biochem*. 2019 May 17. doi: 10.1002/jcb.28797.
- 4- Torabi T, **Abroun S**. Amniotic fluid, an effective factor for umbilical cord blood hematopoietic stem cells in cell culture: An approach for bone marrow transplantation. *Transfus Apher Sci*. 2019 Apr;58(2):169-173. doi: 10.1016/j.transci.2019.01.001.
- 5- Ehsanpour A, Saki N, Bagheri M, Maleki Behzad M, **Abroun S** The Expression of Microvesicles in Leukemia: Prognostic Approaches.. *Cell J*. 2019 Jul;21(2):115-123. doi: 10.22074/cellj.2019.5847.
- 6- Tari K \*, Shamsi Z, Reza Ghafari H, Atashi A, Shahjehani M, **Abroun S**. The role of the genetic abnormalities, epigenetic and microRNA in the prognosis of chronic lymphocytic leukemia. *Exp Oncol*. 2018 Dec;40(4):261-267.
- 7- Mohammadali F, **Abroun S**, Atashi A. Mild hypoxia and human bone marrow mesenchymal stem cells synergistically enhance expansion and homing capacity of human cord blood CD34+ stem cells. *Iran J Basic Med Sci*. 2018 Jul;21(7):709-716. doi: 10.22038/IJBMS. 2018.26820.6561.
- 8- Habibi H, Atashi A, **Abroun S**, Noruzinia M. Synergistic Effect of Simvastatin and Romidepsin on Gamma-globin Gene Induction. *Cell J*. 2019 Jan;20(4):576-583. doi: 10.22074/cellj.2019.5589.
- 9- Saba F, Soleimani M, **Abroun S**. New role of hypoxia in pathophysiology of multiple myeloma through miR-210. *EXCLI J*. 2018 Jul 4;17:647-662. doi: 10.17179/excli2018-1109.

- 10- Houshmand M, Nakhlestani Hagh M, Soleimani M, Hamidieh AA, **Abroun S**, Nikougoftar Zarif M. MicroRNA Microarray Profiling during Megakaryocyte Differentiation of Cord Blood CD133+ Hematopoietic Stem Cells. *Cell J*. 2018 Jul;20(2):195-203. doi: 10.22074/cellj.2018.5021
- 11- Dehghanifard A, Kaviani S, **Abroun S**, Mehdizadeh M, Saiedi S, Maali A, Ghaffari S, Azad M. Various Signaling Pathways in Multiple Myeloma Cells and Effects of Treatment on These Pathways. *Clin Lymphoma Myeloma Leuk*. 2018 May;18(5):311-320. doi: 10.1016/j.clml.2018.03.007.
- 12- Faridi N, Bathaie SZ, **Abroun S**, Farzaneh P, Karbasian H, Tamanoi F, Mohagheghi MA. Isolation and characterization of the primary epithelial breast cancer cells and the adjacent normal epithelial cells from Iranian women's breast cancer tumors. *Cytotechnology*. 2018 Apr;70(2):625-639. doi: 10.1007/s10616-017-0159-3.
- 13- Amerion M, Valojerdi MR, **Abroun S**, Totonchi M. *Cytotechnology*. Long term culture and differentiation of endothelial progenitor like cells from rat adipose derived stem cells. 2018 Feb;70(1):397-413. doi: 10.1007/s10616-017-0155-7.
- 14- Foroutan T, Farhadi A, **Abroun S**, Mohammad Soltani B. Adipose Derived Stem Cells Affect miR-145 and p53 Expressions of Co-Cultured Hematopoietic Stem Cells. *Cell J*. 2018 Jan;19(4):654-659. doi: 10.22074/cellj.2018.4393.
- 15- Mousavi SH, **Abroun S**, Soleimani M, Mowla SJ. 3-Dimensional nano-fibre scaffold for ex vivo expansion of cord blood haematopoietic stem cells. *Artif Cells Nanomed Biotechnol*. 2018 Jun;46(4):740-748. doi: 10.1080/21691401.2017.1337026
- 16- Mansurabadi R, **Abroun S**, Hajifathali A, Asri A, Atashi A, Haghighi M. Expression of *hsa-MIR-204*, *RUNX2*, *PPAR $\gamma$* , and *BCL2* in Bone Marrow Derived Mesenchymal Stem Cells from Multiple Myeloma Patients and Normal Individuals. *Cell J*. 2017 Spring;19(Suppl 1):27-36. doi: 10.22074/cellj.2017.4480.
- 17- Heidari N, **Abroun S**, Bertacchini J, Vosoughi T, Rahim F, Saki N. Significance of Inactivated Genes in Leukemia: Pathogenesis and Prognosis. *Cell J*. 2017 Spring;19(Suppl 1):9-26. doi: 10.22074/cellj.2017.4908. Epub 2017 May 17. Review.
- 18- Mousavi SH, **Abroun S**, Zarrabi M, Ahmadipanah M. *Pediatr Blood Cancer*. The effect of maternal and infant factors on cord blood yield. 2017 Jul;64(7). doi: 10.1002/pbc.26381.
- 19- Kalantari N, **Abroun S**, Soleimani M, Kaviani S, Azad M, Eskandari F, Habibi H. Effect of The Receptor Activator of Nuclear Factor  $\kappa$ B and RANK Ligand on In Vitro Differentiation of Cord Blood CD133(+) Hematopoietic Stem Cells to Osteoclasts. *Cell J*. 2016 Fall;18(3):322-31.
- 20- 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 Pac J Cancer Prev*. 2016;17(7):3605-10.
- 21- Tamaddon G, Geramizadeh B, Karimi MH, Mowla SJ, **Abroun S**. miR-4284 and miR-4484 as Putative Biomarkers for Diffuse Large B-Cell Lymphoma. *Iran J Med Sci*. 2016 Jul;41(4):334-9.
- 22- Saki N, **Abroun S**, Soleimani M, Kavianpour M, Shahjehani M, Mohammadi-Asl. MicroRNA Expression in  $\beta$ -Thalassemia and Sickle Cell Disease: A Role in The Induction of Fetal Hemoglobin. J, Hajizamani S. *Cell J*. 2016 Winter;17(4):583-92. Epub 2016 Jan 17. Review.
- 23- **Abroun S**, Saki N, Ahmadvand M, Asghari F, Salari F, Rahim F. STATs: An Old Story, Yet Mesmerizing. *Cell J*. 2015 Fall;17(3):395-411.

- 24- Ashrafi M, Bathaie SZ, **Abroun S**, Azizian M. Effect of Crocin on Cell Cycle Regulators in N-Nitroso-N-Methylurea-Induced Breast Cancer in Rats. *DNA Cell Biol.* 2015 Nov;34(11):684-91.
- 25- 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 J.* 2015;17(2):231-42.
- 26- Saki N, **Abroun S**, Salari F, Rahim F, Shahjahani M, Javad MA. Molecular Aspects of Bone Resorption in  $\beta$ -Thalassemia Major. *Cell J.* 2015 Summer;17(2):193-200. Epub 2015 Jul 11. Review.
- 27- Jafarian A, Taghikhani 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.* 2015 Jun 5;10(6):e0128650. doi: 10.1371/
- 28- Mousavi SH, **Abroun S**, Soleimani M, Mowla SJ. Expansion of human cord blood hematopoietic stem/progenitor cells in three-dimensional Nanoscaffold coated with Fibronectin. *Int J Hematol Oncol Stem Cell Res.* 2015 Apr 1;9(2):72-9.
- 29- Farshdousti Hagh M, Noruzinia M, Mortazavi Y, Soleimani M, Kaviani S, **Abroun S**, Dehghani Fard A, Mahmoodinia M. Different Methylation Patterns of RUNX2, OSX, DLX5 and BSP in Osteoblastic Differentiation of Mesenchymal Stem Cells. *Cell J.* 2015 Spring;17(1):71-82.
- 30- Saki N, **Abroun S**, Soleimani M, Hajizamani S, Shahjahani M, Kast RE, Mortazavi Y. Involvement of MicroRNA in T-Cell Differentiation and Malignancy. *Int J Hematol Oncol Stem Cell Res.* 2015 Jan 1;9(1):33-49. Review.
- 31- , **Abroun S**, Baharvand H, Aghdami N, Ebrahimi M. Differentiation potential of o bombay human-induced pluripotent stem cells and human embryonic stem cells into fetal erythroid-like cells. *Ganji F Cell J.* 2015 Winter;16(4):426-39.
- 32- Alizadeh Sh, Kaviani S, Soleimani M, **Abroun S**, Kashani-Khatib Z, Asgharzadeh A, Dargahi H, Mousavi R. Mir-55 inhibition can reduce cell proliferation and induce apoptosis in Jurkat (Acute T cell Leukemia) cell line. *Iran J Ped Hematol Oncol.* 2014;4(4):141-50.
- 33- 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.* 2015 Sep;20(8):462-468. doi: 10.1179/1607845414Y.0000000220.
- 34- 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. *Mol Biol Rep.* 2014 Jul;41(7):4783-94. doi: 10.1007/s11033-014-3349-5.
- 35- Saki N, **Abroun S**, Hajizamani S, Rahim F, Shahjahani M. Association of Chromosomal Translocation and MiRNA Expression with The Pathogenesis of Multiple Myeloma. *Cell J.* 2014 Summer;16(2):99-110. Epub 2014 May 25. Review.
- 36- Ahmadvand M, Noruzinia M, Fard AD, Zohour MM, Tabatabaiefar MA, Soleimani M, Kaviani S, **Abroun S**, Beiranvand S, Saki N. The role of epigenetics in the induction of fetal hemoglobin: a combination therapy approach. *Int J Hematol Oncol Stem Cell Res.* 2014;8(1):9-14.
- 37- Soufizomorrod M, Soleimani M, Hajifathali A, Mohammadi MM, **Abroun S**. Expansion of CD133(+) Umbilical Cord Blood Derived Hematopoietic Stem Cells on a Biocompatible Microwells. *Int J Hematol Oncol Stem Cell Res.* 2013;7(1):9-14.

- 38- Zarrabi M, Mousavi SH, **Abroun S**, Sadeghi B. Potential uses for cord blood mesenchymal stem cells.. Cell J. 2014 Winter;15(4):274-81. Epub 2013 Nov 20. Review.
- 39- Habibi H, **Abroun S**, Hajifathali A, Soleimani M, Kaviani S, Kalantari N, Eslahchi S. Osteogenic inhibition in multiple myeloma. Cell J. 2013 Fall;15(3):266-71
- 40- Azad M, Kaviani S, Noruzinia M, Mortazavi Y, Mobarra N, Alizadeh S, Shahjahani M, Skandari F, Ahmadi MH, Atashi A, **Abroun S**, Zonoubi Z. Gene Expression Status and Methylation Pattern in Promoter of P15INK4b and P16INK4a in Cord Blood CD34 (+) Stem Cells. Iran J Basic Med Sci. 2013 Jul;16(7):822-8.
- 41- 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. 2014 Apr;19(3):141-7. doi: 10.1179/1607845413Y.0000000105.
- 42- DehghaniFard A, Kaviani S, Noruzinia M, Soleimani M, **Abroun S**, Chegeni R, Hajifathali A, Zonoubi Z, Ahmadvand M, Mohammadi MM, Saki N. Evaluation of H3 histone methylation and colony formation in erythroid progenitors treated with thalidomide and sodium butyrate. Lab Hematol. 2013 Mar;19(1):1-5. doi: 10.1532/LH96.12003.
- 43- Ashrafi M, Bathaie SZ, **Abroun S**. High Expression of Cyclin D1 and p21 in N-Nitroso-N-Methylurea-Induced Breast Cancer in Wistar Albino Female Rats. Cell J. 2012 Fall;14(3):193-202.
- 44- **Abroun S**, Saki N, Fakher R, Asghari F. Biology and bioinformatics of myeloma cell. Lab Hematol. 2012 Dec;18(4):30-41. doi: 10.1532/LH96.11003. Review.
- 45- Saki N, **Abroun S**, Farshdousti Hagh M, Asgharei F. Neoplastic bone marrow niche: hematopoietic and mesenchymal stem cells. Cell J. 2011 Fall;13(3):131-6.
- 46- Nikougofar Zarif M, 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 J. 2011 Fall;13(3):173-8.
- 47- Kouhkan F, Alizadeh S, Kaviani S, Soleimani M, Pourfathollah AA, 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 J Med Biotechnol. 2011 Apr;3(2):61-6.
- 48- Shamsasenjan K, Otsuyama KI, **Abroun S**, Iqbal MS, Mahmoud MS, Asaoku H, Kawano MM. IL-6-induced activation of MYC is responsible for the down-regulation of CD33 expression in CD33+ myeloma cells. Int J Hematol. 2009 Apr;89(3):310-318. doi: 10.1007/s12185-009-0256-
- 49- **Abroun S**. Chemokines in Homeostasis and Cancers. Yakhteh Medical Journal, Vol 10, No 3, Autumn 2008, 155-166
- 50- **Abroun S**, Otsuyama K, Shamsasenjan K, Islam A, Amin J, Iqbal MS, Gondo T, Asaoku H, Kawano MM. Galectin-1 supports the survival of CD45RA(-) primary myeloma cells in vitro. Br J Haematol. 2008 Sep;142(5):754-65. doi: 10.1111/j.1365-2141.2008.07252..
- 51- Liu S, Otsuyama K, Ma Z, **Abroun S**, Shamsasenjan K, Amin J, Asaoku H, Kawano MM. Induction of multilineage markers in human myeloma cells and their down-regulation by interleukin 6. Int J Hematol. 2007 Jan;85(1):49-58.
- 52- Otsuyama KI, Ma Z, **Abroun S**, Amin J, Shamsasenjan K, Asaoku H, Kawano MM. PPARbeta-mediated growth suppression of baicalein and dexamethasone in human myeloma cells. Leukemia. 2007 Jan;21(1):187-90.
- 53- Zheng X, **Abroun S**, Otsuyama K, Asaoku H, Kawano MM. Heterogeneous expression of CD32 and CD32-mediated growth suppression in human myeloma cells. Haematologica. 2006 Jul;91(7):920-8.

- 54- Liu S, Ishikawa H, Tsuyama N, Li FJ, **Abroun S**, Otsuyama KI, Zheng X, Ma Z, Maki Y, Iqbal MS, Obata M, Kawano MM. Increased susceptibility to apoptosis in CD45(+) myeloma cells accompanied by the increased expression of VDAC1. *Oncogene*. 2006 Jan 19;25(3):419-29.
- 55- Ishikawa H, Tsuyama N, Liu S, **Abroun S**, Li FJ, Otsuyama K, Zheng X, Ma Z, Maki Y, Iqbal MS, Obata M, Kawano MM. Accelerated proliferation of myeloma cells by interleukin-6 cooperating with fibroblast growth factor receptor 3-mediated signals. *Oncogene*. 2005 Sep 15;24(41):6328-32.
- 56- Liu S, Ishikawa H, Li FJ, Ma Z, Otsuyama K, Asaoku H, **Abroun S**, Zheng X, Tsuyama N, Obata M, Kawano MM. Dehydroepiandrosterone can inhibit the proliferation of myeloma cells and the interleukin-6 production of bone marrow mononuclear cells from patients with myeloma. *Cancer Res*. 2005 Mar 15;65(6):2269-76.
- 57- Ma Z, Otsuyama K, Liu S, **Abroun S**, Ishikawa H, Tsuyama N, Obata M, Li FJ, Zheng X, Maki Y, Miyamoto K, Kawano MM. Baicalein, a component of *Scutellaria radix* from Huang-Lian-Jie-Du-Tang (HLJDT), leads to suppression of proliferation and induction of apoptosis in human myeloma cells. *Blood*. 2005 Apr 15;105(8):3312-8.
- 58- Li FJ, Tsuyama N, Ishikawa H, Obata M, **Abroun S**, Liu S, Otsuyama K, Zheng X, Ma Z, Maki Y, Kawano MM. A rapid translocation of CD45RO but not CD45RA to lipid rafts in IL-6-induced proliferation in myeloma. *Blood*. 2005 Apr 15;105(8):3295-302.
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- 62- Kawano MM, Ishikawa H, Tsuyama N, **Abroun S**, Liu S, Li FJ, Otsuyama K, Zheng X. Growth mechanism of human myeloma cells by interleukin-6. *Int J Hematol*. 2002 Aug;76 Suppl 1:329-33
- 63- Ishikawa H, Tsuyama N, Mahmoud MS, Fujii R, **Abroun S**, Liu S, Li FJ, Kawano MM. CD19 expression and growth inhibition of tumours in human multiple myeloma. *Leuk Lymphoma*. 2002 Mar;43(3):613-6. Review.
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