

## In the name of God

### Curriculum Vitae



**Data:** 2023/01/10

#### Personal History

**Name:** Mehdi Allahbakhshian Farsani

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#### Educational History

Major	Degree	University	City	Country	Year	
					From	To
Clinical Laboratory Sciences	BSc	Isfahan University of Medical Sciences	Isfahan	IRAN	2001	2005
Hematology and transfusion sciences	MSc	Iran University of Medical Sciences	Tehran	IRAN	2005	2007
Hematology and transfusion sciences	Ph.D	Tarbiat Modarres University	Tehran	Iran	2007	2012
Fellowship of lab medicine	Fellowship	Iran University of Medical Sciences	Tehran	Iran	2018	2020

#### T Theses

Title of Thesis	Degree	Supervisor(s)
Evaluation of mutations in the promoter region of coagulation factor IX in Iranian hemophilia B patients	MSc	Dr. Ghassem Rastegar Lari
The genetic manipulation of cord blood HSCs using simultaneous HOXB4 over expression and TGFBR2 down regulation to enhance HSCS self renewal	Ph.D	Dr. Mehdi Forouzandeh Moghadam

## Professional History

### a. Teaching History

School	*Level	Role	**Type of Lesson (Theory or Practical)	Title of Lesson	Year
Shahrekord medical university of sciences	Undergraduate /Postgraduate	Lecturer	Theory & Practical	1-Hematology 2-Gene therapy 3-Cell culture 4-Genetic engineering	2012-2013
SBMU School of Allied Medical Sciences	Undergraduate /Postgraduate	Lecturer	Theory & Practical	1-Hematology 2-Immunoematology 2-Gene therapy 3-Cell culture 4-Genetic engineering methods 5-Biology 6-BM stem cells culture 7-animal lab technique 8-cytogenetic and molecular method in hematologic malignancies 9-Hematopathology	2013 until now

\*Level: Undergraduate, Resident, Postgraduate, Graduate

\*\*Type of Lessons: Theory or Practical (classroom, Laboratory, Clinic, Operation Room, Community, etc.)

### b. Professional Service

Type of Service	Place	Year
Hematodiagnostic specialist	Taleghani Hospital, HSCs transplantation lab	2016 -2021
Lab Director	Torfeh Hospital, Torfeh pathobiology Lab	2022-2023

### c. Academic Administrative Appointments

Position	Duties	Institution/ Location	Year	
Head of research team	IPS generation project	Shahrekord medical university of sciences	2011	2013
Students Tutor	Tutoring undergraduate and postgraduate students	SBMU School of Allied Medical Sciences	2013	Untie now

### d. Executive Positions and Appointments (Administrative)

Job Title	Duties and Responsibilities	Site of Activity	Supervisor	Year	
				From	To
Educational development office	Executive	SBMU School of Allied Medical Sciences	Educational Assistant	2014	2016

#### Honors and awards

HONOR	Place	Executive Office	Year
The second rank holder	MS entrance exam	Sanjesh	2005
The second rank holder	PhD entrance exam	TMU	2007

#### Membership in Professional Associations and Societies (Professional Memberships)

Name of Association	Site of Association	Year
Iranian blood transfusion Societies	Tehran/IRAN	2005.....
Iranian laboratory Hematology Association (ILHA)	Tehran/IRAN	2016.....

#### Approved Projects and Proposals

Name of Project	Role	Place	Current condition of Project	Year
The evaluation of CD34+ cord blood HSCs expansion on 3D scaffold	CO-Investigator	IBTO	Finished	2009
The genetic manipulation of cord blood HSCs using simultaneous HOXB4 over expression and TGFBR2 down regulation to enhance HSCS self renewal	CO-Investigator	TMU	finished	2012
The evaluation of osteopontin (secreted by osteoblasts) effects on HSCs expansion	CO-Investigator	IBTO	Finished	2009
Confirmation of pluripotent state of IPSs cells using EB formation	PI	SKMU	Finished	2013
The expansion of IPSs using feeder free and serum free condition	PI	SKMU	Finished	2013
Cytogenetic stability studies of human IPSs using karyotype and comet assay	PI	SKMU	Finished	2013
The production and purification of lenti viral vectors for gene therapy purposes with high titers	CO-Investigator	SKMU	Finished	2013
Production of poly sistronic vectors for IPSs	CO-	SKMU	Finished	2013

generation purposes	Investigator			
EBSs differentiation to HSCs using HOXB4 over expression	CO- Investigator	SKMU	Finished	2014
EBSs differentiation to HSCs using TGFBR2 down regulation	CO- Investigator	SKMU	Finished	2014
The evaluation of MSCs transplantation in mice with liver ischemia	CO- Investigator	SKMU	Finished	2014
The Evaluation IFN G and IL6 in ALL patients	PI	SBMU	Finished	2015
The Evaluation of Quercetin and N-acetylcysteine on IL6 expression in PC3, DU145 and PzPV7 cell lines	CO- Investigator	SBMU	Finished	2016
The Evaluation of SMAD3 and SMAD7 expression in ALL patients	CO- Investigator	SBMU	Finished	2016
The Evaluation of TGFBR2 and TGFBR1 expression in ALL patients	PI	SBMU	Finished	2016
Evaluation and Comparison of the Performance of a Composite Shield with that of a lead Standard Shield in terms of Biological Effects in Nuclear Medicine	PI	SBMU	Finished	2016
The evaluation of P21 and P23 expression in ALL patients	PI	SBMU	Finished	2016
The evaluation of APC2 and APC7 expression in ALL patients	PI	SBMU	Finished	2016
The evaluation of Oleuropein radio protective effects on peripheral blood mononuclear cells	CO- Investigator	SBMU	Finished	2016
Evaluation of P53 , MDM2 , cMYC and P14 expression in ALL patients	PI	SBMU	Finished	2016
Evaluation of RUNX1 and CEBPA expression in denovo AML patients	PI	SBMU	Finished	2016
Evaluation of WT1 and EZH2 expression in denovo AML patients	PI	SBMU	Finished	2016
Detection of exon 28 mutations in Iranian patients with type 2M,2A,2B von	CO- Investigator	School of Allied Medical Sciences	Finished	2011
study of the natural coagulating inhibitors A polymorphism in patients with the Vine Thrombosis	CO- Investigator	School of Allied Medical Sciences /Vascular research center	Finished	2012
The prevalence of factor V leiden (G1961A); MTHFR(C677T);and PT(G20210A) gene mutation in patients with vein thrombosis visited the Vale Asr Hospital in Tehran and Sarvar Hemophilia- thalassemia in Mashhad	CO- Investigator	School of Allied Medical Sciences /Thrombosis research center-TUMS	Finished	2013
The Detected of expression HDL Receptor and their role on platelet function of Patients with atherosclerotic disease	CO- Investigator	School of Allied Medical Sciences	Finished	2015
The Investigation of Platelets-Leukocytes interaction and their roles on foam cell formation	CO- Investigator	School of Allied Medical Sciences	In processing	2017

Theses Directed, Supervised or Consulted

Title of Thesis	Degree/Level	Place	Role	Year
The evaluation of APC2 and APC7 expression in ALL patients of Anti-platelet glycoproteins in Children with ITP disease	MD/Fellowship	SBMU/ Medical Faculty	ADVISOR	2016

EBSs differentiation to HSCs using simultaneous HOXB4 over expression and TGFBR2 down regulation	PhD	SKMU	ADVISOR	2014
The Evaluation of TGFB and TGFBR2 expression in ALL patients	MSc	School of Allied medical Sciences SBMU	Supervisor	2015
The evaluation of P21 and P23 expression in ALL patients	MSc	School of Allied medical Sciences SBMU	ADVISOR	2015
Evaluation of SMAD3 and SMAD7 expression in ALL patients	MSc	School of Allied medical Sciences SBMU	ADVISOR	2015
Evaluation of P53 , MDM2 , cMYC and P14 expression in ALL patients	MSc	School of Allied medical Sciences SBMU	Supervisor	2015
Evaluation and Comparison of the Performance of a Composite Shield with that of a lead Standard Shield in terms of Biological Effects in Nuclear Medicine	MSc	School of Allied medical Sciences SBMU	Co Supervisor	2016
Review and Performance Comparison of Lead-Free Shields and Lead Shields* In Terms Of Biological Effects in Nuclear Medicine by the Comet Method	MSc	School of Allied medical Sciences SBMU	Co Supervisor	2016
The evaluation of IL-6 and IFN- $\gamma$ expression in patients with acute lymphoblastic leukemia ( ALL) and their relationship to the monitoring of disease	MSc	School of Allied medical Sciences SBMU	ADVISOR	2015
The evaluation of Oleuropein radio protective effects on peripheral blood mononuclear cells	MSc	School of Allied medical Sciences SBMU	Advisor	2016
Evaluation of RUNX1 , CEBPA, Pu1, GFI , LEF1 ,... expression in denovo AML patients	MSc	School of Allied medical Sciences SBMU	Supervisor	2016
Evaluation of WT1 and EZH2 expression in denovo AML patients	MSc	School of Allied medical Sciences SBMU	Supervisor	2016

#### Lectures

Title of Lecture	Seminar	Place	Year
New approaches in MM risk stratification	3 <sup>rd</sup> congress on Novel & Innovative Laboratory Technologies	SBMU/ Treatment Duty	December 2014
MRD assessment in ALL patients	The 1 <sup>th</sup> symposium of hematologic malignancy	Iranian Optometry association / Tehran	December 2014
Transfusion adverse effects	7 <sup>th</sup> International and 12 <sup>th</sup> National Congress on Quality Improvement in Clinical Laboratories, 2014.	Iranian clinical laboratory association / Tehran	May 2014

#### Editorial

Journal	Place of publishing	Duties and Responsibilities	Year	
			From	To
Journal of Paramedical Sciences ( <b>JPS</b> )	SBMU/ School of Allied medical Science	Reviewer	2012	
Sci J Iran Blood Transfus Organ (Khoon)	IBTO	Reviewer	2013	
ZUMS	Zanjan	Reviewer	2013	

**Publications:**

## a. Books

Author(s)	TRANSLATOR	Title	Publisher	Site of Publication	Year of Publication
Henry's Clinical Diagnosis and Management by Laboratory Methods( hematology)	Gholamreza Khamisipour, Mehdi Allahbakhshian, Mahin nikugoftar	Clinical Laboratory Hematology			2009
Textbook of Blood Banking and Transfusion Medicine	Gholamreza Khamisipour, Mehdi Allahbakhshian,	Clinical Laboratory immunoematology and transfusion			2009

## b. Articles

Author(s)	Title of Article	Congress	Place	Type of Presentation	Year
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- 1- "Masoud Nasr, Ali Karimi, Mehdi Allahbakhshian Farsani, Payam Ghasemi Dehkordi. Production, purification and titration of a lentivirus-based vector for gene delivery purposes. *Cytotechnology*, 29 September 2013, [Epub ahead of print].
- 2- Allahbakhshian-Farsani M, Abdian N, Ghasemi-Dehkordi P, Sadeghiani M, Saffari-Chaleshtori J, Hashemzadeh-Chaleshtori M, Khosravi-Farsani S. Cytogenetic analysis of human dermal fibroblasts (HDFs) in early and late passages using both karyotyping and comet assay techniques. *Cytotechnology*. 2013 Aug 31. [Epub ahead of print].
- 3- Payam Ghasemi-Dehkordi, Mehdi Allahbakhshian-Farsani, Narges Abdian, Amin Mirzaeian, Morteza Hashemzadeh-Chaleshtori, Hamideh Jafari-Ghahfarokhi. **Effects** of feeder layers, culture media, conditional media, growth factors, and passages number on stem cell optimization. *Proceedings of National Academy of Sciences, India Section B: Biological Sciences*, Oct 2014, Epub ahead of print.

8- Abdian, Mehdi Allahbakhshian-Farsani, Amin Mirzaeian, Javad Saffari-Chaleshtori, Marzieh Sadeghian, Morteza Hashemzadeh-Chaleshtori. Effects of Lentiviral Vectors on DNA Damage of Human Dermal Fibroblasts (HDFs). *JOURNAL OF PURE AND APPLIED (MICROBIOLOGY)*, March 2015, Epub ahead of print.

9-Payam Ghasemi-Dehkordi, Mehdi Allahbakhshian-Farsani, Narges Abdian, Amin Mirzaeian, Javad Saffari-Chaleshtori, Fatemeh Heybati, Morteza Hashemzadeh-Chaleshtori. Comparison between the cultures of human induced pluripotent stem cells (hiPSCs) on feeder-and serum-free system (Matrigel matrix), MEF and HDF feeder cell lines. *J. Cell Commun. Signal*. March 2015, Epub ahead of print.

10-Narges Abdian, Mehdi Allahbakhshian-Farsani, Somayeh Khosravi-Farsani, Payam Ghasemi-Dehkordi, Sedigheh Kazemi-Sheykhshabani, Mahboubeh Ganji-Arjenaki, Morteza, Hashemzadeh-Chaleshtori. Generation of HSC-Like Cells from Human Embryonic Stem Cells by Inhibition of TGF- $\beta$ 2 Signaling. *Proc. Natl. Acad. Sci*, 4 February 2015, Epub ahead of print.

11-Amir hossein Mahvi, Gashtasb Mardani, Payam Ghasemi-Dehkordi, Javad Saffari-Chaleshtori, Morteza Hashemzadeh-Chaleshtori, Mehdi Allahbakhshian-Farsani, Narges Abdian. Effects of Phenanthrene and Pyrene on Cytogenetic Stability of Human Dermal Fibroblasts Using Alkaline Comet Assay Technique. *Proc. Natl. Acad. Sci*, 25 February 2015, in press.

11-Payam Ghasemi-Dehkordi, Mehdi Allahbakhshian-Farsani, Narges Abdian, Hamideh Jafari-Ghahfarokhi, Javad Saffari-Chaleshtori, Marzieh Sadeghiani, Amin Mirzaeian, Morteza Hashemzadeh-Chaleshtori. A study of cytogenetic stability of induced pluripotent stem cells using karyotyping and comet assay techniques. 2015, *Journal of Kerman University of Medical Sciences*, 22, 4, 370-384.

12-Mohsen Hamidpour, Hosien Jahangir, Mortaza Safi, Gholamreza Toogeh, Mehdi Allahbakhshian, R Hamidpour. A study of the natural coagulating inhibitors polymorphism in Iranian patients with the vine thrombosis. 2015, *Journal International Journal of Hematological Disorders*, 2, 2, Pages 47-53.

13-Payam Ghasemi-Dehkordi, Mehdi Allahbakhshian-Farsani, Narges Abdian, Amin Mirzaeian, Morteza Hashemzadeh-Chaleshtori, Hamideh Jafari-Ghahfarokhi. Effects of feeder layers, culture media, conditional media, growth factors, and passages number on stem cell optimization. 2015 *Proceedings of the National Academy of Sciences, India Section B: Biological Sciences* 85,3, Pages. 711-717.

14-Mohammad Hossein Mohammadi, Naser Amirizadeh, Farsani Mehdi Allahbakhshian, Nezhad Hamideh Aghae, Ahmad Ahmadzadeh, Safa Najafi, Azita Azarkeivan. TGF- $\beta$  and TGF- $\beta$ RII fluctuation in HLA-DR negative AML patients. 2016. *Genetics In The 3rd Millennium* 13, 4, Pages 4100-4105.

15- Alireza Kazemi, Mohammad Reza Sadri, Ava Safaroghli-Azar, Atieh Pourbagheri-Sigaroodi, Mehdi Allahbakhshian-Farsani, N Vazifeh Shiran, Davood Bashash. Apoptotic effect of Kyprolis on multiple myeloma KMM-1 cells through p73-mediated induction of G1 cell cycle arrest. 2017. *Journal*

Scientific Journal of Kurdistan University of Medical Sciences. 22 ,6.

16- Kouros Goudarzipour, Ahmad Ahmadzadeh, Mohammad Hossein Mohammadi. Changes of AML 1 and P53 tumor suppressor gene expression in patients de novo acute myeloid leukemia. 2017, Journal Archives of Advances in Biosciences. 8, 1, 39-45.

17- Mahnaz Abasalizadeh, Prisa Nehzati, Mehdi Allahbakhshian, Mohsen Hamidpour, Ali Akbar Khadem Mabudi, Mohamad Reza Tabatabaie. The detection of Scavenger Receptor-B1 expression and its role on the function of platelets in patients with atherosclerotic disease. 2017, Journal Scientific Journal of Iran Blood Transfus Organ, 14, 2 , 92-100.

18- Masoomeh Aminian, Mohsen Bakhshandeh, Mehdi Allahbakhshian-Farsani, Ehsan Bakhshandeh, Nezhat Shakeri. Comparison of the protection performance in a composite shield and a lead standard shield in terms of biological effects in nuclear medicine. 2017; Iranian Journal of Nuclear Medicine .25,2 , 129-135.

19- Mohammad Reza Khosravi Farsani, Vahid Amiri, Abbas Hajifathali, Mohamadhossein Mohammadi, Mohammad Jabari, Mehdi Allahbakhshian Farsani, Majid Asadi-Samani. The expression patterns of APC2 and APC7 in newly diagnosed acute lymphoblastic leukemia. 2017/10/28 Journal Journal of Pharmaceutical Research International; Pages, 1-8.

20- Fatemeh Salarpour, Kouros Goudarzipour, Mohammad Hossein Mohammadi, Ahmad Ahmadzadeh, Sara Faraahi, Mehdi Allahbakhshian Farsani. Evaluation of CCAAT/Enhancer Binding Protein (C/EBP) Alpha (CEBPA) and Runt-Related Transcription Factor 1 (RUNX1) Expression in Patients with De Novo Acute Myeloid Leukemia. 2017, Journal Annals of human genetics. 81,6 . 276-283.

21- A Ahmadzadeh, M Hossein Mohammadi, F Mezginezhad, H Aghaee Nezhad, S Parkhideh, M Khosravi, Z Khazaei, HA Adineh, M Allahbakhshian Farsani. The expression of the TP53 gene in various classes of acute myeloid leukemia. 2018/1/1. Journal WCRJ 5, 1178.

22- M Allahbakhshian Farsani, P Khadem, Z Khazaei, F Mezginejad, N ESMAELI Shagerdi, MR Khosravi, MH Mohammadi. Evaluation of P14ARF, P27kip1 and P21Cip1, cell cycle regulatory genes, expression in acute myeloid leukemia patients. 2018, Journal WCRJ Volume 5 1186.

23- Fatemeh Salarpour, Kouros Goudarzipour, M Mohammadi, M Khosravi, Sina Salari, Sara Faraahi, M Farsani. Transcription factors LEF1, PU. 1 and IRF8 have decreased expression levels in majority of de novo acute myeloid leukemia patients. 2018/2/1 Journal Middle East Journal of Family Medicine, 10, 207-217.

24- Hamideh Aghaee Nezhad, Mohammad Hossein Mohammadi, Mohammadreza Reza Khosravi, Sina Salari, Abbas Hajifathali, Mehdi Allahbakhshian Farsani. The evaluation of p and p 7 expression in HLA-DR negative AML patients. 2018/2/1. Journal Middle East Journal of Family Medicine , 7 , 10 ; 5.

25- Hamideh Aghaee Nezhad, Mohammad Hossein Mohammadi, Gholamreza Toogeh, Sina Salari, Mohammadreza Reza Khosravi, Fatemeh Mezginezhad, Mehdi Allahbakhshian-Farsani. The evaluation of the TGF- $\beta$ 1 and T $\beta$ RII gene expression in patients with acute lymphoblastic leukemia. 2018, Journal Middle East Journal of Family Medicine, 7 Issue 10; 198.

26- Mohammad Reza Khosravi, Mohammad Hossein Mohammadi, Parinaz Khadem, Sahar Lashkari, Hamideh Aghaee Nezhad, Ahmad Gharehbaghian, Zaher Khazaei, Mehdi Allahbakhshian Farsani. Evaluation of P21Cip1 and P27Kip1 expression in de novo acute lymphoblastic leukemia patients. 2018, Journal Biomedical research and therapy; 5 , 7 ; 2518-2527.

27- Vahid Amiri, Mohamadhossein Mohammadi, Mohammad Reza Khosravi Farsani, Arshia Gharehbaghian, Abbas Hajifathali, Zaher Khazaei, Mehdi Allahbakhshian Farsani. Evaluation of UHRF1 and P16INK4A expression levels in newly diagnosed AML patients. 2018; Journal Biomedical Research and Therapy; 5 ; 9, 2658-2663.

28- Mohsen Bakhshandeh, Masoomeh Barzegar Ziyarani, Mehdi Allahbakhshian-Farsani, Ehsan Bakhshandeh, Nezhat Shakeri. Review and Performance Comparison of Lead-Free Shields and Lead Shields, In Terms of Biological Effects in Nuclear Medicine by the Comet Method. 2018; Journal Iranian Journal of Medical Physics, 15, Iranian Congress of Medical Physics, 143-143.

29- Mohammadreza Mohamadimaram, Mehdi Allahbakhshian Farsani, Amin Mirzaeian, Mohamadhossein Mohammadi. Evaluation of ATG7 and light chain 3 (LC3) autophagy genes



expression in AML patients. 2019, Iranian journal of pharmaceutical research: IJPR. 18 , 2 ; 1060.

30- Mohammad Jabari, Mehdi Allahbakhshian Farsani, Sina Salari, Mohsen Hamidpour, Vahid Amiri, Mohammad Hossein Mohammadi. Hypoxia-Inducible Factor 1-A (HIF1 $\alpha$ ) and Vascular Endothelial Growth Factor-A (VEGF-A) Expression in De Novo AML Patients. 2019; Asian Pacific journal of cancer prevention: APJCP; 20 , 3 ,705.

31- Mitra Zabihi, Ava Safaroghli-Azar, Ahmad Gharehbaghian, Mehdi Allahbakhshian Farsani, Davood Bashash. CDK Blockade Using AT7519 Suppresses Acute Myeloid Leukemia Cell Survival through the Inhibition of Autophagy and Intensifies the Anti-leukemic Effect of Arsenic Trioxide. 2019; Iranian Journal of Pharmaceutical Research: IJPR . 18; 11 ;119.

32- Seyedeh Zahra Hasanpour, Farsani Mehdi Allahbakhshian, Abbas Hajifathali, Mohammad Hossein Mohammadi. Evaluation of Beclin 1 and Atg10 gene expression of the autophagy pathway in acute lymphoblastic leukemia patient. 2019, Scientific Journal Of Kurdistan University Of Medical Sciences ,23, 698 ,142-151.

33- Fatemeh Salarpour, Kourosh Goudarzipour, Mohammad Hossein Mohammadi, Ahmad Ahmadzadeh, Sara Faraahi, Atefeh Allahbakhshian, Mehdi Allahbakhshian Farsani. Evaluation of growth factor independence 1 expression in patients with de novo acute myeloid leukemia. 2020, Journal of cancer research and therapeutics, 16 , 1, 23.

34- Mehdi Allahbakhshian Farsani, Masomeh Kamel, Mahdieh Mehrpouri, Reza Shiri Heris, Mohsen Hamidpour, Sina Salari, Mohamad Hosien Mohamadi. The expression of interferon gamma (IFN- $\gamma$ ) and interleukin 6 (IL6) in patients with acute lymphoblastic leukemia (ALL). 2020, Journal Pathology & Oncology Research; 26; 1, 461-466.

35- Saeideh Hasani Azami, Hamid Nazarian, Mohammad-Amin Abdollahifar, Mehdi Allahbakhshian-Farsani, Seyedeh Zahra Banihosseini, Marefat Ghaffari Novin. Curcumin Delays Oocyte Apoptosis Through Overexpression of BCL-2 Gene in Young and Middle-Aged Mouse Models. 2020, Int. J. Womens Health, 8 ,53-60.

36- Mehdi Zolfaghari, Mohieddin Barzegar, Vahid Amiri, Mehdi Allahbakhshian Farsani, Shaboo Jesri, Abdollah Kiani Harchegani, Mohammad Hossein Mohammadi. Standardization of Plasma Rich in Growth Factors (PRGF) and its effects on androgenic hair loss. 2020; Journal Journal of Cosmetic and Laser Therapy, 22 , 1 , 31-37.

36- Mehdi Allahbakhshian Farsani, Esmaeil Shahabi Satlsar, Alireza Mohseni, Mohammad Mosleh, Mahdieh Mehrpouri, Mahnaz Agaepour, Mohammad Hossein Mohammadi, Roohollah Gholampour, Farzaneh Jadali. Use of four-color flow cytometric assay for discrimination of hematogone from lymphoblast: critical issue for MRD assessment in B-ALL patients. 2020, Journal Iranian Journal of Pediatric Hematology & Oncology, 10,1. 17-27.

37- Saeideh Hasani Azami, Hamid Nazarian, Mohammad Amin Abdollahifar, Fatemeh Eini, Mehdi Allahbakhshian Farsani, Marefat Ghaffari Novin. The antioxidant curcumin postpones ovarian aging in young and middle-aged mice. 2020, Journal Reproduction, Fertility and Development, 32, 3; 292-303.

38- Mehdi Allahbakhshian Farsani, Mohammad Rafiee, Hamideh Aghae Nezhad, Sina Salari, Arshia Gharehbaghian, Mohammad Hossein Mohammadi. The Expression of P53, MDM2, c-myc, and P14ARF Genes in Newly Diagnosed Acute Lymphoblastic Leukemia Patients. 2020 , Journal Indian Journal of Hematology and Blood Transfusion. 36 , 2 , 277-283.

39- Seyed Hossein Abtahi, Mohammad Hossein Mohammadi, Mehdi Allahbakhshian Farsani. Alterations of adiponectin gene expression in bone marrow of acute myeloid leukemia. 2020, Tehran University Medical Journal TUMS Publications, 78 , 2, 93-98.

40- Fatemeh Salarpour, Kourosh Goudarzipour, Mohammad Hossein Mohammadi, Abbas Hajifathali, Mehdi Allahbakhshian Farsani. 2020, Bangladesh Journal of Medical Science, 19, 4 ,730-736.

41- Maryam Ahankoub, Gashtasb Mardani, Payam Ghasemi-Dehkordi, Ameneh Mehri-Ghahfarrokhi, Abbas Doosti, Mohammad-Saeid Jami, Mehdi Allahbakhshian-Farsani, Javad Saffari-Chaleshtori, Mohammad Rahimi-Madiseh. Biodecomposition of phenanthrene and pyrene by a genetically engineered Escherichia coli. 2020 , Recent patents on biotechnology, 14, 2 ; 121-133.

42- Masoomeh Torkashvand, Kourosh Goudarzipour, Mehdi Allahbakhshian Farsani, Vahid Amiri, Mohammad Hossein Mohammadi, Mozghan Hashemieh, Peyman Eshghi. Quantitative evaluation of Cerebrospinal fluid (CSF) samples in pediatric patients with low-risk ALL using multiparameter flow cytometry. 2020 , International journal of laboratory hematology, 42 , 4 , 152-154.

- 43- Fatemeh Amani, Mehdi Allahbakhshian Farsani, Mehrdad Gholami, Seyed Mahmoud Reza Aghamiri, Mohsen Bakhshandeh, Mohammad Hossein Mohammadi. The protective effect of oleuropein against radiation-induced cytotoxicity, apoptosis, and genetic damage in cultured human lymphocytes. 2021, *International Journal of Radiation Biology*, 97, 2, 179-193.
- 44- Mohieddin Barzegar, Mehdi Allahbakhshian Farsani, Vahid Amiri, Saeed Mohammadi, Shaghayegh Shahsavan, Amin Mirzaeian, Mohammad Hossein Mohammadi. AML-derived Extracellular Vesicles Confer De Novo Chemoresistance to Leukemic Myeloblast Cells by Promoting Drug Export Genes Expression and ROS Inhibition. 2021, *Iranian Journal of Pharmaceutical Research*, 20, 1, 384-397.
- 45- Fateme Mezginejad, Mohammad Hossein Mohammadi, Mehdi Allahbakhshian Farsani. Evaluation of LKB1 and Serine-Glycine Metabolism Pathway Genes (SHMT1 and GLDC) Expression in AML. 2021, *Indian Journal of Hematology and Blood Transfusion*; 37, 2, 249-255.
- 46- Seyed Hossein Abtahi, Mohammad Hossein Mohammadi, Mehdi Allahbakhshian Farsani, Zahra Aghelan, Sina Salari. Evaluation of Sestrin 2, Adiponectin, AMPK, and mTOR Genes Expression in Acute Myeloid Leukemia Patients. 2021, *Journal Iranian Journal of Biotechnology*, 19, 2, 2860.
- 47- Mohammad Rafiee, Mehdi Allahbakhshian Farsani, Vahid Amiri, Abbas Hajifathali, Ahmad Gharehbaghian, Mohammad Hossein Mohammadi. Circulatory miR-155 correlation with platelet and neutrophil recovery after autologous hematopoietic stem cell transplantation, a multivariate analysis. 2021, *International Journal of Hematology*, 1-11.
- 48- Fatemeh Feizi, Mehdi Allahbakhshian Farsani, Amin Mirzaeian, Vahide Takhviji, Abbas Hajifathali, Mohammad Hossein Mohammadi. Triangle collaboration assessment of autophagy, ER stress and hypoxia in leukemogenesis: a bright perspective on the molecular recognition of B-ALL. 2021, *Archives of physiology and biochemistry*; 127, 3, 285-289.
- 49- Mohammadreza Moonesi, Saeed Zaka Khosravi, Samira Molaei Ramshe, Mehdi Allahbakhshian Farsani, Saeed Solali, Mohammad Hossein Mohammadi, Majid Farshdousti Hagh, Hanie Mehdizadeh. IGF family effects on development, stability, and treatment of hematological malignancies. 2021, *Journal of Cellular Physiology*, 236, 6, 4097-4105.
- 50- Saeed Zaka Khosravi, Samira Molaei Ramshe, Mehdi Allahbakhshian Farsani, Saeed Solali, Mohammadreza Moonesi, Majid Farshdousti Hagh. Investigating the expression pattern of the angiopoietin-Tie system in ALL and its correlation with baseline characteristics. 2021, *Journal Blood research*, 56, 2 ; 79-85.
- 51- Mohieddin Barzegar, Mehdi Allahbakhshian Farsani, Mohammad Rafiee, Vahid Amiri, Sayeh Parkhihdeh, Fariba Rad, Mohammad Hossein Mohammadi. Acute promyelocytic leukemia derived extracellular vesicles conserve PML-RAR $\alpha$  transcript from storage-inflicted degradation: a stable diagnosis tool in APL patients. 2021, *Annals of Hematology Volume*, 100, 9, 2241-2252.
- 52- Seyedeh Maryam Hosseini Bandari, Mehdi Allahbakhshian Farsani, Gholamreza Khamisipour. Evaluating the expression of key genes involved in resistance to oxidative stress in ALL patients. 2021, *Iranian Journal of Pediatric Hematology & Oncology*, 2021, 11, 4, 239-247.
- 53- Vahid Amiri, Mohammad Hossein Mohammadi, Mohammad Rafiee, Behrooz Ghezelbash, Sina Salari, Mehdi Allahbakhshian Farsani. Transcription analysis of a histones modifiers panel coupled with critical tumor suppressor genes displayed frequent changes in patients with AML.: mRNA levels of histones modifiers and TSGs in AML. 2021, *Current Research in Translational Medicine*, 69, 4, 103311.
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- 55- Yasaman Kargar-Sichani, Mohammad Hossein Mohammadi, Vahid Amiri, Mohyedin Barzegar, Ali Keshavarz, Davood Bashash, Mehdi Allahbakhshian Farsani. Effect of Acute Myeloid Leukemia-derived Extracellular Vesicles on Bone Marrow Mesenchymal Stromal Cells: Expression of Poor Prognosis Genes. *Archives of medical research*, 2023, 54, 2, 95-104.

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