CURRICULUM VITAE

Minoo Shahidi Ph.D

Current Appointment

Associate Professor, Department of Hematology and Blood Banking, Faculty of Allied Medicine, Iran University of Medical Sciences

Director of International affairs office and director of E- Learning Management System, Faculty of Allied Medicine, Iran University of Medical Sciences

Contact Information

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Career History

- Deputy of International affairs office, School of Allied Medicine, Tehran University of Medical Sciences (2012-2013)
- International representative in innovation group, Faculty of Allied Medicine, Tehran University of Medical Sciences (2013)

Educational Details

Ph.D (Immuno-Haematology): The inflammatory and thrombotic effects of Creactive protein in endothelial cells. Diss. Faculty of Health and Medical Sciences,

University of Surrey, United Kingdom

M.Sc (Hematology and Blood Banking), School of Medicine, **Tarbiat Modares University**, Tehran, Iran

B. Sc (Medical Technology), Faculty of Medical Technology, **Ahvaz Medical University**, Iran.

Expertise

- Identification and diagnosis of morphology of normal and pathophysiological blood & bone marrow
- -Flow cytometry
- Confocal Fluorescence Microscopy,
- Mammalian cell culture, ELISA, PCR, etc.
- Measurement of DNA content & cell cycle analysis
- -SiRNA transfection
- Immunocytochemistry

Awards received

Selected Publications

Refereed articles

1) Ghalesardi OK, Khosravi A, Azizi E, Ahmadi SE, Hajifathali A, Bonakchi H, Shahidi M. The prognostic importance of BCR-ABL

- transcripts in Chronic Myeloid Leukemia: A systematic review and metaanalysis. Leukemia Research. 2021 Jan 19;101:106512-.
- Y) Siyadat P, Ayatollahi H, Barati M, Sheikhi M, Shahidi M. High Resolution Melting Analysis for Evaluation of mir-612 (Rs12803915) Genetic Variant with Susceptibility to Pediatric Acute Lymphoblastic Leukemia. Reports of Biochemistry & Molecular Biology. 2021 Jan;9(4):385.
- r) Boustani H, Khodadi E, Shahidi M. Autophagy in Hematological Malignancies: Molecular Aspects in Leukemia and Lymphoma. Laboratory medicine. 2021 Jan;52(1):16-23.
- ⁵ Ghanbari OB, Soleimani M, Shahidi M, Ghiass MA, Enderami SE, Dorgalaleh A. Differentiation of human induced pluripotent stem cells to megakaryocyte lineage by using 3D bioreactor, microfluidic system and acellular rat lung. Biochemical Engineering Journal. 2021 Jan 15; 165:107822.
- c) Gholami MS, Shahidi M, Tabibian S, Naderi M, Dorgalaleh A. Genotyping of blood groups in alloimmunized patients with β-thalassemia major by T-ARMS-PCR and multiplex-aso-pcr. Transfusion and Apheresis Science. 2021 Feb 1;60(1):102984.
- ¹) Shakouri M, Hosseini MS, Dorgalaleh A, Shahidi M, Zaker F. Complete Genotype and Clinical Phenotype of Hemophilia B: A Study on Iranian Patients. Journal of Cellular & Molecular Anesthesia.;2021, 6(1):3-8.
- v) Shahidi M, Parhizkary F, Sharifi R, Ghotaslou A, Barati M. Effects of resveratrol on coagulative, fibrinolytic, and inflammatory marker expression and secretion by endothelial cells (human umbilical vein endothelial cells). Blood Coagulation & Fibrinolysis. 2020 Apr 1;31(3):207-12.

- A) Piri Z, Kourosh Arami M, Shahidi M, Nazari S. Alteration of Hematologic Parameters in Morphine-Dependent Rats by Long-Term Administration of Orexin Type 1 Receptor Antagonist. International Journal of High-Risk Behaviors and Addiction. 2020 Sep 30;9(3).
- ¹) Balavandi Z, Neshasteh-Riz A, Koosha F, Eynali S, Hoormand M, Shahidi M.The Use of β-Elemene to Enhance Radio Sensitization of A375 Human Melanoma Cells. Cell Journal (Yakhteh). 2020 Jan 1;21(4).
- No.) Shokouhian M, Shahidi M, Gholampour MA. The Effect of miR-155 on DNA Damage in Mesenchymal Stem Cells. Cell and Tissue Biology. 2020 Sep;14(5):341-8.
- 11) Farzanegan A, Shokuhian M, Jafari S, Shirazi FS, Shahidi M. Antihistaminic effects of resveratrol and silymarin on human gingival fibroblasts. Inflammation. 2019 Oct;42(5):1622-9.
- NY) Shahidi M, Sharifi R, Sadeghi-Shirazi F, Parhizkary F. The Generation of Hematopoietic Progenitor Cells from Endothelial Cells by Silymarin. Clinicallaboratory. 2018 Oct;64(11).
- Mehdipour M, Shahidi M, Manifar S, Jafari S, Abbas FM, Barati M, Mortazavi H, Shirkhoda M, Farzanegan A, Rankohi ZE. Diagnostic and prognosticrelevance of salivary microRNA-21,-125a,-31 and-200a levels in patients with oral lichen planus-a short report. Cellular Oncology. 2018 Jun 1;41(3):329-34.
- vascularendothelial growth factor receptor 2, CRP and IL-6 in Oral lichen planusprogression." Inflammopharmacology (2017): 1-7.
- (JAK2) Shahidi, Minoo, Najibeh Esmaeili, Mohammad Faranoosh, Ahmad Kazemi, Mahmood Barati, and Nafise Ansarinejad. "Endothelial tip cell formation induced by chronic lymphocytic leukaemia plasma (JAK2)

- positivity amplified this effect)." Journal of Hematopathology (2017): 1-7
- Nahidi, Minoo, Seyed Mohsen Razavi, and Parisa Hayat. "Induction of endothelial cell proliferation and von Willebrand factor expression and secretion by leukemic plasma of patients with chronic lymphocytic leukemia before and after inhibition of NF-κB." Blood Coagulation & Fibrinolysis 27, no. 6 (2016): 711-716.
- NY) Shahidi, Minoo. "Thrombosis and von Willebrand Factor." In Thrombosis and Embolism: from Research to Clinical Practice, pp. 1-22. Springer International Publishing, 2015.
- NA) Shahidi, Minoo, et al. "The in vitro effects of sodium salicylate on von Willebrand factor and C-reactive protein production by endothelial cells." Inflammopharmacology 22.6 (2014): 367-372 showing.
- (2015):104 'Could platelet rich plasma effect tip cell production in human vascular endothelial cell cultures?' Iranian Journal of blood and cancer 3
- You Shiran, M. B., M. Barzegar Marvasti, A. Shakeri-Zadeh, M. Shahidi, N. Tabkhi, F. Farkhondeh, E. Kalantar, and A. Asadinejad. "Enhancement of Toxic Substances Clearance from Blood Equvalent Solution and Human Whole Blood through High Flux Dialyzer by 1 MHz Ultrasound."

 Journal of Biomedical Physics and Engineering 7, no. 2 Jun (2017).
- (1) Shahidi.M. Determining the Criteria for Attract foreign students in Iranian Medical Universities from the Viewpoint of Faculty Members. Iranian Journal of Medical Education. 2020 Apr 10;20:194-204.
- (۱۲) Shahidi Minoo, Jahromy Mahsa Hadipour, Hossein Jafari, and Alireza jafari.
- "investigation of the effect of electromagnetic fields with low frequency on anxity in male mice." (2016): 79-87

- Heidarpourian Samaneh1, Shahidi Minoo2, Kazemi Ahmad3, RazaviMohsen4, Basi Ali5, Hayaparisa6"A comparison between circulating endothelial cell numbers and plasma vWF levels in patient with chronic lymphocytic leukemia and their association with other hematologic findings." Payavard salamat (2015).
- YE) Shahidi M, Motavalian M "Study on cell cycle and DNA content of WBC in mouse after Chlorine Poisoning. Journal of Iran Medical University 48, 2005):1
- Yo) Jafari H, Abbassi A, Miri S, Shahidi M. Effect of Allium sativum L. aqueous extract on contraction power of isolated atrium from rats following administration of adrenaline. The Journal of Qazvin University 9. 4 (2006):25-29
- Jafari H, Gheybi N.A, Abbasi E,Miri S.R.A, Khalili Najafabadi M, Shahidi M,Yadegari S.,Nabavi S.M. Effects Of Trachyspermum Copticum L. Microinjection In Nucleus Reticularis Paragigantocellularis On Morphine's Withdrawal Syndrome Sing Iranian Journal Of Medicinal And Aromatic Plants Spring 22. 31 (2006):111-16
- On Morphine Withdrawal Signs in Mice, Iranian Journal of Pharmaceutical Research 3.1 2004: 73-73.
- ^{†A)} H Jafari; M Shahidi; E Abbasi; R Gharebaghi. The analgesic effect of aqueous extract of Viola odarata in mice Iranian Journal of Pharmaceutical Research 3.1 (2004): 73-73.
- ¹⁹ Jafari. H, Niakan.M, Shahidi.M., Gharahbaghi.R.Evaluation The Effect Cholorotormic Garlic Extract On Reducing The Temprature And Inhibit The Weight Loss In Infected Rabbits With Salmonella Typhimurium. Daneshvar Medicine 9.40 (2002): 17-22.
- r·) Jafari H, Shahidi M, Miri SR, Garebaghi R, Yadegari S "Effects of Trachyspermum Copticum L on Morphin's Withdrawal Syndrome Signs in rats" Journal of Medicinal Plants 3.12 (2000): 15-21

Books and Dissertation

- 1) A chapter of an International Textbook Islam, Md Shahidul, ed. Thrombosis and Embolism: from Research to Clinical Practice. Springer International Publishing, 2017.
- 2) The inflammatory and thrombotic effects of C-reactive protein in endothelial cells. Diss. University of Surrey, UK
- 3) Basic Hematology from Hematopoiesis to Hemoglobinopathy: Published by Faculty of Allied Medicine, Iran University of Medical Sciences.
- 4) Leukocytes and hematologic disorders: Published by Faculty of Allied Medicine, Iran University of Medical Sciences
- 5) A guide book for examination of medical technology (part of Haematology &Blood Banking, Published by Andishe Rafi
- 6) Techniques in Immunohematology, Published by Roodgoon & Sinateb
- 7) From screening to quality control in blood banking
- 8) News in innate immunity Published by Mehregan Danesh
- 9) Blood banking from screening to quality control Published by Ketab mah
- 10) Warfarin and I, Published by Sabora
- 11) Standards for Clinical Sample Collection, Published by Sayegostar & Mehregan danesh
- 12) MSc Hematology and Blood bank Entrance Exam, Published by Artin teb
- 13) Laboratory Management (quality in Clinical Laboratory), Published by Sayegostar & Mehregan danesh

Teaching Experience in UK (University of Surrey)

- 1) Introduction to immunology: BSc students (2008-2009)
- 2) Practical Immunology: MSc students (2008-2010)
- 3) Practical Hematology: BSc students (2009-2010).
- 4) Practical Biochemistry and Immunology: BSc students (2008-2009)
- 5) Practical Biochemistry and Chemistry I: BSc students (2008-2009)
- 6) Demonstrating of Practical Cell and Molecular Biology: BSc students (2008-2010)
- 7) Key skill I (statistics): BSc students (2008-2009)

Teaching Experience in Iran

- 1) Advances in Hematology
- 2) Advanced Methods in Hematology
- 3) Advances in Immunology
- 4)Advances in Immuno-hematology
- 4) Hematology
- 5) Quality control in Hematology & blood banking
- 6) Practical Hematology
- 7) Cell culture, etc.: Ph.D. MSc & BSc students (1999 up now)
- 9) Transmitted Infectious diseases through blood and blood products

Certificates of Invention

- A diagnostic kit for genotyping of the Kell blood group

- A drug to reduce the rate of Heart (Allium Sativum L, extracted from Garlic)
- A drug to inhibit the acute & chronic pain (it is extracted from Viola Odarata)

Membership

- Member of INTERNATIONAL ADVISORY BOARD of INDIAN SOCIETY FOR

ATHEROSCLEROSIS RESEARCH (ISARCON).

- Member of Iranian Pain Society.
- Member of Iranian Blood Transfusion Scientific Association
- Editor of Ommega publisher
- Reviewer for the Journal of Atrial Fibrillation (JAFIB), Journal of Inflamopharmacology and journal of Inflammation Research (Springer).

Research Experiences

- 1) Investigation the effect of single or combinational T53R2, Thymidylate synthase and Major Valut Protein (MVP) siRNA on sensitization of B and T acute lymphoblastic leukemia cells to Daunorubicin
- ⁷) Investigation on the effects of AMG 232 and MLN0905 drugs on the apoptosis and expression of selected autophagy genes in B and T acute lymphoblastic leukemia after treatment with doxorubicin
- (**) Assessment of resveratrol effect on ETosis phenomenon levels in NB4 cell lines
- ^٤) Evaluation of the inhibitory effect of Tetrahydroisoquinoline on the expression of microvesicles and angiogenic markers in co-culture of multiple myeloma and endothelial cells

- Evaluation of the prognostic Hematological and biochemical parameters along with inflammatory markers in patients with COVID-19 in Iran (Isfahan)
- ¹) Investigation of MicroRNA 31, 200a, 125a as the salivary prognostic biomarkers of malignant transformation and MicroRNA 320 as an angiogenetic marker in patients with oral lichen planuse and lichenoid lesion
- V) The effect of miR-155 on genomic instability in CD34+ cord blood hematopoietic stem cells
- A) Determination of minor blood group patterns in southeast of iran with molecular methodes and investigation of alloimmuninization probability in major thalassemia patients by receiving random blood
- ¹) Evaluation of the effect of Tetrahydroisoquinoline on neutrophil cells treated with plasma contain platelets of Essential thrombocythemia (ET) patients in comparison with platelet rich plasma (PRP) of healthy people
- 1.) The effect of resveratrol on angiogenic regulating factors gene expression in T acute lymphoblastic leukemia cell line
- Evaluation of the effect of melatonin on angiogenesis, coagulation and fibrinolytic markers in acute promyelocytic leukemia (NB4)
- Distinct and Combination of Prolifratory and Anti-Inflammatory Effects of Resveratrol and Silymarin on Human Gingival Fibroblast (HGF) after and before treatment with LPS and Histamine
- miR608 and miR605 and correlation of them with susceptibility to childhood B cell precursor acute lymphoblastic leukemia
- Evaluation of the resveratrol effects on T acute lymphoblastic leukemia cells and endothelial cells alone and in co culture system by detection of angiogenic factor in T acute lymphoblastic leukemia cells and angiogenic factor and apoptosis in endothelial cells

- Studying the mechanism of orexin effect on cAMP and CREB in hippocampal neurons of rat
- Investigation the effect of idasanutlin (RG-7388) on apoptosis and multi drug resistance genes expression of B and T-ALL cells treated with Daunorubicin and Methotrexate.
- The Effect of chronic lymphoid leukemia (CLL) patient plasma on endothelial production of germ cells (Tip Cell) in the culture medium
- 18) The effect of chronic leukemic plasma on endothelial cell cycle before and aftersuppression of NF-KB signalling pathway
- 19) Circulating endothelial cell detection in blood could be a prognostic factor in patients with chronic leukemia.
- 20) The effect of resveratrol on angiogenic regulating factors gene expression in T acute lymphoblastic leukemia cell line
- 21)The effect of silymarin on endothelial cell homeostatic and fibrinolytic functions in comparison with Vasopressin in cell culture
- 22) Investigation of the mechanism of C-reactive protein thrombotic effects on Human Coronary Artery Endothelial Cells
- 23) Study of quantity, quality, cell cycle and DNA content of white blood cells in mice after Chlorine poisoning.
- 24) The Effect of Sulphur dioxide (SO2) on cell cycle of blood, lung and liver cells

Awards

- A selected representative of E- Learning Management System LMS
- A selected academic member (2017)

- BSI Award (British Society for Immunology) for taking part in the XXII Congress of the International Society on Thrombosis and Hemostasis, Boston, USA, July 2009.
- Berend Houwen Travel Award ISLH (International Society for Laboratory Hematology) for taking part in ISLH, New Orleans, USA 2011.
- A certificate of IUMS as a topic researcher

Published Abstracts

At International congress:

- 1) Shahidi M: Generation of hematopoietic stem cells from endothelial cells, Regenerative Medicine and stem cells (RMST), **Singapore**, November 14-16, 2017
- Shahidi M: in vitro effect of Platelet rich plasma on production of angiogenic cells in HUVECs, International Society for Laboratory Hematology, Milano, Italy May 12-14, 2016
- 3) Shahidi M, Esmaili 'Platelet rich plasma reduced vascular endothelial growth factor receptor-2 (VEGFR2) levels in human vascular endothelial cell culture' European Congress of Immunology, **Vienna**, 2015
- 4) Marvasti, M. B., Rasuli, B., Tabkhi, N., Kalantar, E., Shahidi, M., Asadinejad, A. & Shiran, M. B. "Ultrasound effect on clearance of toxic substances from the blood." river ST, Hoboken 07030-5774, NJ USA:
- 5) Shahidi, M, 'C-reactive protein increases von Willebrand Factor and decreases tissue plassminogen activator production by endothelial cells. th congress of clinical Laboratory, **Iran**, **Y. 11**.
- 6) Shahidi M, L. Powell, E. Oviedo-Orta and K. Bodman-Smith 'Incubation of endothelial cells with CRP results in alteration of FcγR expression' XXII Congress of the International Society on Thrombosis and Haemostasis, **Boston, USA**, July 2009.
- 7) Shahidi M, N. Panchal, S. Wright, C. Adams, E. Oviedo-Orta and K. Bodman-Smith 'Is there a role for C-reactive protein in endothelial cell

- activation and the atherogenic process?' Faculty of Health and Medical Sciences, Research Festival, **UK**, July 2008.
- 8) Shahidi M, N. Panchal, S. Wright, C. Adams, E. Oviedo-Orta and K. Bodman-Smith 'The role of C-reactive protein in endothelial cell activation and the atherogenic process' Faculty of Health and Medical Sciences, Research Cardiovascular Research Symposium, UK, October 2007.
- 9) Shahidi M, Jafari H. 'The Effect of Sulphur dioxide (SO2) on cell cycle of blood, lung and liver cells'. European Federation of Neurological Science, Glasgow, UK, September 2006.
- 10) Shahidi M, Motavalian M. 'Study on cell cycle and DNA content of WBC in mice after Chlorine Poisoning'. European Federation of Neurological Science, **Athens, Greece**, September 2005.
- 11) Jffari H, Shahidi M, Miri SR, Garebaghi R, Yadegari S. 'Effects of Trachyspermum Copticum L on Morphin's Withdrawal Syndrome Signs in rats. European Federation of Neurological Science Franc, **Paris**, **France**, September 2004.
- 12) Shahidi M. European Federation of Neurological Scienc, **Helsinki**, **Finland** September 2003
- 13) Shahidi M. Medicinal Plants in **Thailand**, 2002
- 14) Shahidi M. Study on DNA content (ploidy) in children with Acute Lymphoblastic Leukemia (ALL) by Flowcytometric method Transfusion Medicine, **India**, 2001
- 15) Shahidi M. Study on the relationship between DNA content and Immunological classification in children with ALL. Physiology & pharmacology Congress, **Russia** 1998.

At National (Iranian) congress:

1) Shahidi M: 'C-reactive protein increases von Willebrand Factor and decreases tissue plasminogen activator production by endothelial cells' the

- 4th Congress of Laboratory & Clinic, Medical University of Shahid Beheshti, Tehran, Iran, 2011
- 2) Shahidi M: The 2nd Federation of Asia-Oceanian Neuroscience Societies (FAONS), Medical University of Shahid Beheshti, Tehran, Iran, 2004.
- 3) Shahidi M. 'Study on the relationship between DNA content (ploidy) & Immunophenotype in children with ALL' The first student congress of cancer, Shahed University, Iran, 2003.
- 4) Shahidi M. 'Study of Hematologic parameters in Addicts rats'. Congress on Addiction: Challenges & Treatments, Zahedan, Iran, 20035) Shahidi M. 'Evaluation of the effects of Trachyspermum Copticum to reduce the Morphines Withdrawal Syndrome signs'. The Congress on Addiction: Challenges & Treatments Zanjan, Iran, 2002
- 5) Shahidi M. 'Study on DNA content in lymphocytes of mice after chlorine poisoning'. The Congress of Military Medicine, Iran, 2002
- 6) Shahidi M. 'The role of hidrocortizone in the prevention of pathologic effects after chlorine poisoning'. The Congress of Military Medicine, Iran, 2002.
- 7) Shahidi M. The 2nd Federation of Asian-Oceanian Neurosciences Society, Tehran University, Iran, 2004.
- 8) Shahidi M. The 3rd Scientific Annual Meeting of the Iranian Pain Society, Iran University, 2003.
- 9) Shahidi M. 'Study on Hematologic Parameter in addicted rats' The 16th Congress of physiology & pharmacology, Tarbiat Modaress University, Iran, 2003.
- 10) Shahidi M. 'Serum Bacterial activity against Yersinia Enterocoletica in Thalassemia' The Third Microbiology Congress. Hamadan, Iran, 2000.
- 11) Shahidi M. 'The Effect Of Uhembin On' The first congress of Family and Sexual problems, Shahed University, Iran, 2003.
- 12) Shahidi M. 'Evaluation of the effects of Trachyspermum Copticum to reduce the Morphines Withdrawal Syndrome signs'. The Congress on Addiction: Challenges & Treatments Zanjan, Iran, 2002

- 13) Shahidi M. 'Study on DNA content in lymphocytes of mice after chlorine poisoning'. The Congress of Military Medicine, Iran, 2002
- 14) Shahidi M. 'The role of hidrocortizone in the prevention of pathologic effects after chlorine poisoning'. The Congress of Military Medicine, Iran, 2002.
- 15) Shahidi M. The 2nd Federation of Asian-Oceanian Neurosciences Society, Tehran University, Iran, 2004.
- 16) Shahidi M. The 3rd Scientific Annual Meeting of the Iranian Pain Society, Iran University, 2003.
- 17) Shahidi M. 'Study on Hematologic Parameter in addicted rats' The 16th Congress of physiology & pharmacology, Tarbiat Modaress University, Iran, 2003.
- 18) Shahidi M. 'Serum Bacterial activity against Yersinia Enterocoletica in Thalassemia' The Third Microbiology Congress. Hamadan, Iran, 2000.
- 19) Shahidi M. 'The Effect Of Uhembin On' The first congress of Family and Sexual problems, Shahed University, Iran, 2003.

Workshops and Courses (Iran)

- -Peripheral blood cell and bone marrow morphology workshop and reporting principles (as the Scientific Secretary and the lecturer) Iran University of Medical Sciences (2020)
- Teaching methods for in-person and virtual education (**as a lecturer**): Iran University of Medical Sciences (Jan 11, 2020)
- Carboxytherapy and angiogenesis (<u>as a lecturer</u>): Iran University of Medical Sciences (2017)
- Problem based learning (as a lecturer): Iran University of Medical Sciences (2016)

- Immunohematology & Blood banking (as a lecturer): Iran University of Medical Sciences (2015)
- Knowledge Transfer and Exchange: Iran University of Medical Sciences (2015)
- Workshop on personal knowledge: Iran University of Medical Sciences (2015)
- Smart Health& Wellbeing: Shahid Beheshti University of Medical Sciences (2014)
- Ethics in medicine (1) at the Tehran University of Medical Sciences and Health Services (2011)
- Ethics in medicine (2) at the Tehran University of Medical Sciences and Health Services (2011)
- International Computer Driving License (ICDL) Workshop, Iran University of Medical Sciences, Tehran, Iran, 2004-2005
- Introductory course in medical education, Iran University of Medical Sciences, Tehran, Iran, 1995

Workshops and Courses (UK)

- Fundamentals of clinical research and GCP at the University of Surrey (2008).
- Academic writing at the University of Surrey (2007).
- Introductory Course for New research Students University of Surrey (2007).