

CURRICULUM VITAE

Majid Safa, Ph.D.

Current Appointment:

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

Joint appointment in Department of Tissue Engineering, Faculty of Advanced Technologies in Medicine, Iran University of Medical Sciences

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Education and Training:

1999-2001	A.D. Medical Laboratory Sciences Shiraz University of Medical Sciences, Shiraz, Iran
2001-2003	B.Sc. Medical Laboratory Sciences Esfahan University of Medical Sciences, Esfahan, Iran
2003-2006	M.Sc. Laboratory Hematology and Blood banking Tarbiat Modares University, Tehran, Iran
2006-2011	Ph.D. Laboratory Hematology and Blood banking Tehran University of Medical Sciences, Tehran, Iran
3/2010-11/2010	Visiting PhD Student, Department of Stem Cell Biology University Medical Center Groningen, Groningen, Netherlands

Honors and Awards:

Ranked first position in the countrywide PhD entrance exam of Hematology and Blood Banking, 2006

Second prize winner (as student researcher) in Paramedical Sciences, 16th Razi Research Festival for Medical Sciences, Tehran, Iran, 2011

Prize winner of the 14th Avicenna Festival, Tehran University of Medical Sciences, Tehran, Iran, 2013

Selected Publications:

- Manafi Shabestari R, **Safa M**, Banan M, Kazemi A. (2017) Cyclic AMP-Induced p53 Destabilization is Independent of CREB in Pre-B Acute Lymphoblastic Leukemia Cells. *Int J Mol Cell Med*. 5(4):220-228
- Bashash D, Safaroghli-Azar A, Dadashi M, **Safa M**, Momeny M, Ghaffari SH. (2017) Anti-tumor activity of PI3K- δ inhibitor in hematologic malignant cells: Shedding new light on resistance to Idelalisib. *Int J Biochem Cell Biol*. 85:149-158
- Mehrzadi S, **Safa M**, Kamrava SK, Darabi R, Hayat P, Motevalian M. (2017) Protective mechanisms of melatonin against hydrogen peroxide induced toxicity in human bone-marrow derived mesenchymal stem cells. *Can J Physiol Pharmacol*. doi: 10.1139/cjpp-2016-0409
- Athari Nik Azm S, Vafa M, Sharifzadeh M, **Safa M**, Barati A, Mirshafiey A. (2017) Effects of M2000 (D-Mannuronic Acid) on Learning, Memory Retrieval, and Associated Determinants in a Rat Model of Alzheimer's Disease. *Am J Alzheimers Dis Other Demen*, 32(1):12-21
- Shabestari RM, **Safa M**, Alikarami F, Banan M, Kazemi A. (2017) CREB knockdown inhibits growth and induces apoptosis in human pre-B acute lymphoblastic leukemia cells through inhibition of prosurvival signals. *Biomed Pharmacother*, 87:274-279
- Shahbazi A, **Safa M**, Alikarami F, Kargozar S, Asadi M.H, Joghataei M.T, Soleimani M. (2016) Rapid Induction of Neural Differentiation in Human Umbilical Cord Matrix Mesenchymal Stem Cells by cAMP-elevating Agents. *Int J Mol Cell Med* 5(3): 167-177
- Najafi A, Asadi E, Moawad AR, Mikaeili S, Amidi F, Adutwum E, **Safa M**, Sobhani AG. (2016) Supplementation of freezing and thawing media with brain-derived neurotrophic factor protects human sperm from freeze-thaw-induced damage. *Fertil Steril*, 0282(16): 62794-2
- Farhadi E, Zaker F, **Safa M**, Rezvani MR. (2016) miR-101 sensitizes K562 cell line to imatinib through Jak2 downregulation and inhibition of NF- κ B target genes. *Tumor Biology*, 37(10):14117-14128
- Farhadi E, **Safa M**, Sharifi AM, Bashash D. (2016) PRIMA-1 induces caspase-mediated apoptosis in acute promyelocytic leukemia NB4 cells by inhibition of nuclear factor- κ B and downregulation of Bcl-2, XIAP, and c-Myc. *Anticancer Drugs*, 2016 Aug 19. [Epub ahead of print]

- Bagher Z, Ebrahimi-Barough S, Azami M, **Safa M**, Joghataei MT. (2016) Cellular activity of Wharton's Jelly-derived mesenchymal stem cells on electrospun fibrous and solvent-cast film scaffolds. *Journal of Biomedical Materials Research Part A*. 104(1): 218-26
- Mikaeili S, Rashidi BH, **Safa M**, Najafi A, Sobhani A, Asadi E, Abbasi M. (2016) Altered FoxO3 expression and apoptosis in granulosa cells of women with polycystic ovary syndrome. *Archives of Gynecology and Obstetrics* (Epub)
- Fatemi A, **Safa M**, Kazemi A. (2015) MST-312 induces G2/M cell cycle arrest and apoptosis in APL cells through inhibition of telomerase activity and suppression of NF- κ B pathway. *Tumor Biology*, 36(11):8425-37
- **Safa M***, Tavasoli B, Manafi R, Kiani F, Kashiri M, Ebrahimi S, Kazemi A. (2015) Indole-3-carbinol suppresses NF- κ B activity and stimulates the p53 pathway in pre-B acute lymphoblastic leukemia cells. *Tumor Biology*. 36:3919-3930
- Hosseini A, Sharifi AM, Abdollahi M, Najafi R, Baeeri M, Rayegan S, Cheshmehnour J, Hassani S, Bayrami Z, **Safa M**. (2015) Cerium and yttrium oxide nanoparticles against lead-induced oxidative stress and apoptosis in rat hippocampus. *Biol Trace Elem Res*, 164(1):80-9
- Ghorbani A, Jeddi-Tehrani M, Saidpour A, **Safa M**, Bayat AA, Zand H (2015). PI3K/AKT and Mdm2 activation are associated with inhibitory effect of cAMP increasing agents on DNA damage-induced cell death in human pre-B NALM-6 cells. *Archives of Biochemistry and Biophysics*, 566 (2015) 58–66
- Aminzadeh , A. R. Dehpour , **M. Safa** , S. Mirzamohammadi , A. M. Sharifi (2014) Investigating the Protective Effect of Lithium Against High Glucose-Induced Neurotoxicity in PC12 Cells: Involvements of ROS, JNK and P38 MAPKs, and Apoptotic Mitochondria Pathway. *Cellular and Molecular Neurobiology*, 34(8), 1143-1150
- **Safa M***, Mousavizadeh K, Noori S, Pourfathollah A, Zand H (2014) cAMP protects acute promyelocytic leukemia cells from arsenic trioxide-induced caspase-3 activation and apoptosis. *European Journal of Pharmacology*, 736: 115-23, 2014
- Kazemi A, **Safa M***, Shahbazi A (2011) RITA enhances chemosensitivity of pre-B ALL cells to doxorubicin by inducing p53-dependent apoptosis. *Hematology*, 16(4): 225-231
- **Safa M***, Kazemi A, Zaker F, Razmkhah F (2011) Cyclic AMP-induced p53 destabilization is independent of EPAC in pre-B acute lymphoblastic leukemia cells in vitro. *Journal of Receptors and Signal Transduction*, 31(3): 256-63

- **Safa M**, Zand H, Mousavizadeh K, Kazemi A, Bakhshayesh M, Hayat P (2010) Elevation of cyclic AMP causes an imbalance between NF-kappaB and p53 in NALM-6 cells treated by doxorubicin. *FEBS Letters*, 584(15):3492-8
- **Safa M**, Kazemi A, Zand H, Azarkeivan A, Zaker F, Hayat P (2010) Inhibitory role of cAMP on doxorubicin-induced apoptosis in pre-B ALL cells through dephosphorylation of p53 serine residues. *Apoptosis*, 15(2):196-203
- Soltanpour M, Soheili Z, Pourfathollah A, Samiei S, Meshkani R, **Safa M**, et al. (2010) The A1298C Mutation in Methylenetetrahydrofolate Reductase Gene and Its Association With Idiopathic Venous Thrombosis in an Iranian Population. *LabMedicine*, 42: 213-216
- Gill P, Forouzandeh M, Eshraghi N, Ghalami M, **Safa M**, NooriDaloii MR (2008) Detection of four β -thalassemia point mutations in Iranians using a PCR-ELISA genotyping system. *Molecular and Cellular Probes*, 22(2): 103-109
- Soltanpour MS, Soheili Z, Pourfathollah A.A, Samiei S, Meshkani R, Mohammad Reza Deyhim, **Safa M**, Ataei Z (2008) The Association between Common C677T Mutation in Methylenetetrahydrofolate Reductase Gene and Risk of venous thrombosis in an Iranian population. *LabMedicine*, 39(2): 5-8
- **Safa M**, Forouzandeh M, Pourfathollah AA, Gill P, Rasaei MJ, Yari F, Shahbazi A, Soltanpour MS., Mayor N (2008) High resolution allotyping of four alleles of HLA-DRB1*01 group in Iranians using reverse-SSOPH assay in comparison with DNA sequencing and PCR-SSP. *Journal of Biological Sciences*, 8(2): 392-397

Books

Safa M, Nasiri H: Genetics of Blood Disorders (translation into Farsi), Tarbiat Modares University and Iranian Blood Transfusion Organization, 2004 (ISBN: 964-2547-13-9)

Chegeni R , **Safa M**: Basic Hematology (in Farsi) , 2006 (ISBN: 964-06-5598-8)

Abstracts in International Congresses:

- Activation of cAMP signaling inhibits DNA damage-induced apoptosis in pre-B ALL cells through abrogation of p53 accumulation. The 9th International Congress of Hematology and Medical Oncology of Iran, November 2009, Tehran, Iran

- Activation of cAMP signaling inhibits chemotherapeutic-induced p53-mediated apoptosis in wild-type p53 acute lymphoblastic leukemia cells. The 15th Congress of the European Hematology Association (EHA), June 2010, Barcelona, Spain.
- Association of Wild-type p53-induced phosphatase 1 (Wip1) and BCR-ABL expression in chronic myeloid leukemia. Annual meeting of American Society for Clinical Pathology (ASCP), October 2010, San Francisco, CA. USA
- DNA damage-induced post-translational modifications of p53 decreased upon activation of cAMP signaling in pre-B ALL cells. 16th Congress of the European Hematology Association, June 2011, London, United Kingdom
- Elevation of cAMP levels inhibits arsenic-induced apoptosis in acute promyelocytic leukemia cells. 18th Congress of the European Hematology Association, June 2013, Stockholm, Sweden

Experimental Skills:

- Extraction and purification of DNA, RNA, Protein
- PCR and PCR-based analysis (PCR-RFLP, ARMS-PCR, RT-PCR, Quantitative Real-time PCR), Primer design for PCR and Real-time PCR
- Western blot analysis, Reverse dot blot analysis, ELISA
- Molecular cloning, plasmid construction
- Site-directed mutagenesis, Reporter gene assays (Luciferase and LacZ assays)
- siRNA and shRNA transfection, lentivirus production in 293T cells
- miRNA profiling, Gene expression profiling
- Flow cytometry
- Cell culture

Language:

- Farsi, English