

Curriculum Vitae

Name and surname :

Farhad Zaker

Academic title:

Professor

Qualifications:

1) PhD in "Haematology" at 1997 from University of Wales, College of medicine, Cardiff-UK

Work Experience:

Education and Teaching and Experience:

Teaching of Haematology, Immunohaematology, cell culture, molecular medicine to medical, paramedical and medical laboratory students (theoretical and practical) in different levels (undergraduate and post graduate students) at Tehran university of medical sciences (TUMS), Iran University of Medical Sciences (IUMS), Tarbiat Modaress University (shTMU), Shahid Beheshti Medical University, Zanjan Medical school, Qazvin Medical school, Ahvaz medical school , Esfehan Medical school and other universities for several years.

Research activities:

A-Involvement in several student project, Thesis and research projects

-khaleghi,supervisor and research project. zaker f, co-supervisor shahidi m. etosis in2022 ...ongoing....

-A study genomic B-ALL pediatric based changes in quantitative genes involved in proliferation and differentiation of leukaemic cells and relation to cytogenetic and molecular abnormalities. Hosseini S..., PhD thesis, as advisor, dr teymoorian and Koochakzadeh supervisors, 2018 toon going

-Kiani o, Second supervisor , shahidi M . effects of sirna silencing p53r2 gene on tall treated to duonoribicine. 2023.

-Amir...Asri , flt3 itdsecond advisor , Safa M, phd thesis and research project, 2023.
- ramazanpour n msc supervisor and research project thesis. correlation of fVII inhibitor with IL3 and TNFa polymorphisms. 2021-2023
- manafi r Inhibition of skp2 enhances doxorubicin-induced cell death in b cell precursor ALL, co- supervisor, Safa M phd thesis and research project, 2019-nov 2022.
- namjo. S Study and comparison methylations of selected genes involved in cell cycle and apoptosis in acute leukaemia. phd thesis supervisor, and proposal research , 2016-2022.
- boostani H, phd , advisor, Shahidi M , investigation idasanutlin on apoptosis and mdr genes of b/t cells treated with daunurubicin and mtx.2019-2022.
- Study on PLOD family gene expression in AML . qorbanpor a,...msc supervisor and research project msc thesis 2021-2022.
- Correction of frequently mutation conj def of XIII using crisper/cas9/sgRNA . Dorgalalae A, PhD thesis second supervisor Safa M , and research proj, 2017-2022.
- molecular study of factor V gene in FV def. Sattari S, advisor thesis, rezvani M R project, winter 2019-2022
- Study on genotype and relation to clinical data , lab finding in patients with fibrinogene disorders, tavasoli B, PhD thesis, supervisor, and research project winter 2017-2021
- clasification on genotype in patients with dis and hypodis fibrinogene disorders, tavasoli B, research project winter 2020-2020.
- effect of nanoparticle PLGA including superoxide dismutase and catalase enzymes on some quan and qual indexes and stress oxidative RBC in blood bags.....barzegar s...phd thesis and project ,first supervision 2020-2021
- Study mol and genotype with clinical data and expression of level of FX Ag in patients with conj FX def. Fallah A, MSc thesis advisor, and research proj, 2017-2021
- Study exp CHK1 in Pediatric ALL in primary diagnosis phase and complete remission. Heydari F, MSc thesis advisor, and research proj, 2017-2020

- Kianmehr P, MSc thesis, advisor project, spring 2019-2020.
- Evaluation of effect of mutations in MTX metabolism and relation with expression of mir 24 in drug toxification in ALL. Esmaili..... thesis phd advisor –and proposal research, 2016-2019.
- Inhibition growth in NALM6 cells using recombinant calibrotecine in vitro. Charkhizadeh S msc thesis advisor –and proposal research, 2016-2019.
- Evaluation of methylation of promotor gene TET2 and expression in AML patients. Qasemi B, MSc thesis advisor, and research proj, 2017-2019....
- Evaluation of methylation PTGS2 and its expression and VEGF in angiogenesis in AML.Kianizadeh.... msc thesis supervisor and research proj, winter 2018-2019.
- Study mutations ADNMT3 gene and correlation with gene methylation involved in AML. Tabatabaei T...., msc thesis supervisor and research proj, winter 2017-2019.
- Evaluation of molecular and genotype and relation to clinical data , activity and level of FVII Ag in patients with congenital deficiency of FVII factor. Shams M...PhD thesis supervisor with rezvani M and research proj, spring 2017-2019.
- Using free fetal DNA in mother serum for diagnosis conj XIII def. Motlagh H... msc thesis supervisor and research proposal, winter 2017-2018.
- The effect of sylimarín and rezveratrol on factor VIII and tPA in EC in vitro. Parhizkari F, MSc thesis advisor, and research proj, 2017-2018.
- Evaluation apop and cyto effect o combination Rosmarinus and Celecoxib using flow and MTT assay.....Emami....., DV thesis, advisor, Azad university,.....2016-2018.
- Study of Inhibitor effect of selected inhibitor on pathway of pi3k/mtor and induction of apoptosis in a leukaemic cells.Toosi B, PhD thesis, supervisor, and research project summer 2015-2018..
- Molecular study and relationship genotype and phenotype in Hemophilia B in Sistan. Shakori M, supervisor MSc thesis and research project ,2016-2018...
- The study of expression of mir429 and relation with expression of ABCC1, EGFR, and MAPKC4 on breast mcf-7 cell line. Darvishi S, thesis special DV advisor, and advisor project (CMRC) Tehran university, 2016-2018.
- The effect of inhibitor kinase on bcr-abl pos cells. Bakhshayesh M, phd thesis,CMRC, advisor ...2013-2017.

- Molecular study founder effect ofwith microsatellite and SNPs in conj Factor XIII def in Sistan, Shahrakisupervisor MSc thesis, and research project, 2016-2017.
- Epigenetic in AML, Malekai. A.. TUMS, advisor, on phd thesis, and research project ,2014-2017.
- HCL and mutation in BRAF, Kooshesh M, .supervisor MSc thesis 2016-2017.
- The effect of inhibitory the mir23a expression of JAK2 and BCR-ABL in CML cell line,supervisor on project, farhadi e, CMRC, 2014-2016.
- The effect of inhibitory mir101 on expression of JAK2 and BCR-ABL in CML cell line, supervisor on phd thesis, and research project farhadi e, 2014-2016.
- The epigenetic and hypermethylation of selected genes on MDS. Supervisor on phd thesis and research proj, Nasiri N, 2013-2016.
- The epigenetic and hypermethylation of selected genes on MDS. Supervisor on project , INSF, 2013-2016.
- Evaluation of hypermethylation genes related to apoptosis in MDS. Supervisor of project from CMRC, 2015-2016 .
- Study correlation genotypes of cytokines IL10 and TNFa with VIII factor inhibitor in Hemophilia A. supervisor MSc thesis, and research project Soori S, 2015-2016.
- Study of protomix of surface proteins of HL60 cell. advisor, hamzehlou.S,.. ..msc thesis- biotechnology, 2013-2015.
- Study of MTHFR and GGH polymorphisms on serum levels MTX and related cytotoxicity in ALL children under treatment. Supervisor on project, CMRC, 2014-2014.
- Study of MTHFR polymorphisms on serum levels MTX and related cytotoxicity in ALL children under treatment. Supervisor on MSc thesis, Varmaghani B, IUMS, 2013-2014.
- Study of serum levels and related cytotoxicity in correlation with GGH polymorphism in ALL children under treatment. Supervisor, MSc thesis, kalantari A, IUMS, 2012-2013.
- Study of expansion of umbilical cord blood CD34+ hematopoietic stem cells in presence of BM mesenchymal stem cells with inhibition of Si RNA TGF-B1 receptor II . supervisor ,MSc thesis, sohrabi s, and research proj, CMRC, IUMS, 2012-2014.

- Polymorphisms of selected genes of factor V deficiency in south east of iran. Supervisor, MSc thesis, tabibian s, TUMS, 2013-2014.

- The effect of inhibitory of Aurora kinase B on cell cycle in APL Cells. Supervisor on MSC thesis. Ghanizadeh s, IUMS, 2012-2013.

- Detection of BCR/ABL gene mutations in CML patients treated with Imatinib Mesylate, supervisor on phd thesis, Chahardouli B, TUMS, 2010-2012.

- The effect of co-culture of cord blood CD34 stem cell with mesenchymal stromal cells and epigenetic changes in expression of CDKi p21 and p57 genes, PhD thesis co supervisor, Soultanpour.MS, TUMS, 2010-2012.

- Study of polymorphism of A80G of RFC-1 gene on Methotrexate toxicity and serum concentration in children with Acute Lymphoblastic Leukemia treated . INSF (Iranian national science foundation) as supervisor, project, ,2011-2012.

- Evaluation of effect HESA-A agent on NB4 cells., co-supervisor, MSc thesis, Ghasemi M, TUMS, 2011-2012.

- Evaluation of induction of apoptosis in NB4 cells treated with combination of As2O3 and AZT by quantitative analysis of expression of BCL2 and C-MYC, supervisor, MSc thesis, Hassani S, TUMS, 2011-2012.

- 3D study of capillary network derived from human cord mesenchymal endothelial stem cells have differentiated into endothelial cells with VEGFR2 protein expression, Research project, as advisor, Joghataei MT, CMRC, TUMS, 2009-2012.

- Study of polymorphism of A80G of SLC19A1 gene on Methotrexate toxicity and serum concentration in children with Acute Lymphoblastic Leukemia treated in Aliasghar hospital., supervisor on msc thesis,Sharafi H, TUMS,2010-2011.

- Evaluation of effect of AS2O3 and Telomerase inhibitors in apoptosis of leukemic cells. , PhD thesis as supervisor , Bashash D,TUMS, 2008-2011.

- The study of polymorphisms of glutathione s transferase 1,2 with risk of pre B-ALL, co-supervisor, MSc thesis, Rezazadeh D, TUMS, 2010-2011.

- Study of expansion of umbilical cord blood CD34+ hematopoietic stem cells in presence of BM mesenchymal stem cells and Cu chelator. supervisor, msc thesis, Nasiri N, TUMS, 2010-2011.
- Study of ABCC2 polymorphisms (24C/T, 1249G/A, 3972C/T) on methotrexate serum levels and toxicity in ALL childrens under treatment. supervisor, msc thesis, Sharifi M, TUMS, 2010-2011.
- Polymorphisms of C609T, C465T of NQO1 and polymorphism of CYP1A1 in AML. Supervisor, MSc thesis, Safaei A, Azad university, 2009-2010.
- Polymorphisms of C609T, C465T of NQO1 in AML. Supervisor, research project, CMRC, TUMS, 2010-2011.
- Detection of signal transduction of cAMP, P53 on apoptosis of leukemic cells, advisor, Research project, as advisor, Kazemi A, TUMS, 2010-2011.
- Dissecting effect of CAMP induced increasing agents on apoptosis induced by Doxorubicin in pre ALL., PhD thesis as advisor, Safa .M, TUMS, 2008-2011.
- Frequency Polymorphisms of cyp1A1 and MTHFR in CML. supervisor of research project. CMRC, 2009, 13/12/87 up to 13/8/88.
- Detection of quantitative of bcr-abl gene expression in CML patients treated with Indian Immatib.. MSc thesis as supervisor. Razmkhah F, IUMS, 2009, 1/5/87 up to 1/3/88.
- The methyl entetrahydrofolate reductase polymorphisms and susceptibility to childhood ALL., MSc thesis as supervisor. Atashrazm F. IUMS, 2009, 1/3/87 up to 1/1/88.
- Diagnosis of NPM1 exon 12 mutations in patients of AML. 2009, , MSc thesis as supervisor, Pazhakh .V, IUMS, 2009, 1/3/87 up to 1/3/88.
- A study of flt3 mutations in children with acute leukaemia., MSc thesis as supervisor. Sheikhi M., Azad university, 2007-2008.
- Effect of TGFb on lymphoma B cells . 2009, Advisor on research project. Bakhshayesh M, CMRC, 19/7/85 up to 19/6/87.

- Mutations of c-kit in acute myeloid leukaemia patients. supervisor of research project. CMRC, 15/12/84-87.
- Evaluation of mutations of exons of 8 and 17 of c-kit in CBF leukaemia patients. MSc thesis as supervisor. Mohammadzadeh M, IUMS, 2007, 85 up 12/6/86.
- Evaluation of mutations of internal tandem duplication and D835 in flt3 gene in 101 AML patients. MSc thesis as supervisor, Mohammadi MH, IUMS, 2005-2006.
- Evaluation of apoptosis induced by Arsenic Trioxide through Fas pathway in APL patients with T (9-22). MSc thesis as supervisor., Ardjmand AR, TMU, 2002-2003.
- The evaluation of synergic effect of ATRA and G-CSF on proliferation and differentiation of HL60 with herbal and cytotoxic agents., supervisor of Research project., IUMS, May, 2003.
- Evaluation of cytotoxic, apoptosis and differentiation of viscum Album lectin extract on HL60 alone and in combination with ATRA and D3. MSc thesis as supervisor, Aghileh s, TMU, 2003.
- Evaluation of effect of cytotoxicity, antiproliferative and differentiation of plant alkaloid on HL60 cell treated with ATRA and D3. MSc thesis as supervisor, Oody A, IBTO, 2002.
- Evaluation of cytotoxicity and apoptosis effect of chemotherapeutic drugs and ATRA on HL60 cell combined with GM-CSF. MSc thesis as Co-supervisor, Saadatian R. TMU, 2002.
- The evaluation of synergistic effect of ATRA, gamma-INF and D3 on differentiation of HL60 cell line treated with cytotoxic drugs. MSc thesis as supervisor. Salehian Omran J, TMU, 2000-2001.

-The study of synergic effect of gamma INF and EPO on differentiation of K562 cell treated with cytotoxic drugs. , MSc thesis as Co-supervisor, Mahmoodzadeh A, TMU, 1999-2000.

B-Books:

-Shahraki H, (6 authors).....under supervision of zaker F and godarzian M. quality control in haematology and blood banking lab. Published zahedan medical university. 1399

-zaker f, etal. blood coagulation2018

-sampling and qc I hematology, under supervision 2017

-Zaker F, Soodeh Namjo and Ghanizadeh S. The role of transcription factors in haematopoiesis and blood malignancies. Khalili Group press, 2013.

-Shiran.N . Cellular and molecular haematology vol 1-5. Zaker f et al as editorial board,press, 1390-1393.

-Zaker F and Ghanizadeh S. transcription factors in normal haematopoiesis and leukaemia. Khosravi press, 2013.

-Zaker F and sharifi MJ. Review of haematology. and diseases, Farda press, 2011.

-Zaker F and Niazipour M. Principle of hemostasis and disease. Kamal Danesh press, 2006.

C-Paper Publications:

-National and International

-Kiamehr p, shahidi m, zaker f ,.....Dual effects of rezveratol on expression of angiogenetic factors. Int j mol cell medicine 11 (2) 16-30 2022

-Kojabad AA, zaker f, safa m ,.....Ultrasensitivity quantity flt3 itd mutations in AML using ddpcr. Mol biology report, 2023.....accept

-Boustani H, zaker f, shahidi minhibiting of MDM2 using idasnutlin enhances chemosensitivity of B-ALL cells. Iranian j ped hematol , 2023, 13 (2), 119-131.

-kiani O , zaker f .shahidi mEffect of siRNA –mediated silencing p53r2 gene on sensivity TALL cells to daunorobicine. Gene 880, 147622 2023....

-Soodeh Namjoo,Maryam Alizadeh-Sedigh, Minoos Shahidi , Masoumeh Kiani-Zadeh, Marjan Yaghmaie, Ardeshir Ghavamzadeh, Farhad Zaker (correspond) , Ladan Teimoori-Toolabi (corespond). Methylation and expression of NES1/KLK10 and APAF1 genes as diagnostic and prognostic markers for Acute myeloid and lymphoid leukemia IBJ in press

-Ramazanpour n, zaker f,inhibitor in conj fvii def with tnfa and il10 polymorphisms. In press

-Satari S,,zaker f, Rezvany MR. Molecular and clinical characterization of 7 patients with conj fV def. int j of med lab , 2022, 9 (1).34-46

-Manafi R, Chegini R, Faranoush M., Zaker f, Safa M. Inhibition of skip2 enhances doxorubicin-induced cell death in b cell precursor ALL. Cell Biol Int, 2022, 46 (6), 895-906 .

-Dorgalaleh A, Kiani J, Zaker f, Safa M. The most common disease causing mutations of XIII def is corrected by CRISPR/CAS9 gene editing system, Blood coagul fibrinolysis, 2022, 33 (3), 153-158.

-Kianizadeh M, Rezvany MR, Namjoo S, Barati M,Ghavamzadeh A, Zaker f, (correspond), Teimoori L. Studying potential upregulated PTGS2 and VEGF-C besides hypermethylation PTGS2 promoter as biomarker in AML. Mol Biol Rep, 2022, 49 (8), 7849-7862.

-motlagh h, Dorgalaleh ga, tabibian a, naderi m, zaker f. (correspond).noninvasive prenatal diag of conj f XIII def in iran. Blood coagul fibrinolysis, 33 (3) , 167-170, 2022.

Shakori M, Hosseini MS, dorgalaleh a, hahidi m, zaker f (correspond). Complete genotype and clinical phenotype of haemophilia A.J of Cell mol anesthesia. 6(1), 3-8, 2021.

- Barzegar s, Manafi R, Rezvani MR, Pourfathollah AA,Zaker F (correspond). Use of antioxidant nanoparticle to reduce oxidant stress, in blood storage. *Biotech Appl biochemistry*, 2022, 69 (4), 1712-1722.
- Barzegar s, Rezvani MR, Safa M,, Pourfathollah AA,, Zaker F. Dose dependent efficiency of antioxidant nanoparticles on red blood cell storage. *J education health promotion (JEHP)* , 2021, 10:256.
- Karimzadeh Sariani O, Eghbalpour S, Kazemi E, Rafiei K, Zaker F (correspond). Pathogenic therapeutic role of cytokines in AML. *Review, Cytokine*, 2021,142.
- Ramazanpour N, Zaker F, Arijit Biswas and AK Dorgalaleh. Inhibitor in conj VII def. *J clin Med*, 2021,10(2), 211-..... Review
- Shahraki H, Dorgalaleh A,, Zaker F (correspond). Report of probability of occurrence founder effect in fXIII def patients in south east Iran. (review article). *JCMA (j of cell mol anesthesia)*.....accepted
- Shahraki H, Dorgalaleh A,, Zaker F (correspond). How to assess founder in patients with conj fXIII def. (review article). *IJHOSCR*, 14 (4), 200-213, 2020.
- M Sharifi, F Zaker N, Nasiri, M Yaghmaei. Epigenetic changes FOXO3 and CHEK2 genes and their correlation with clinicopathology findings in MDS patients. *Hem onco and stem cell therapy*2020, 13 (4), 214-219.
- H Shahraki ,, S Tabibian,, F Zaker,.....,, A Dorgalaleh. Indirect mol diag conj fXIII def by candidate microsatellite and SNPs . *Iranian j ped hem onc*. 10 (2), 114-130, 2020.
- Behnaz Tavasoli, Majid Safa, Akbar Dorgalaleh,, Mohammad Reza Rezvani,, Shadi Tabibian,...., Farhad Zaker. Molecular clinical profile of conj fib dis in Iran. *Int J Lab hem*,42 (5), 619-627, 2020

-Ahmeda A, ...Zaker F, Hossieni S, zanganeh MM....Chemical characterization anti haemolytic and potentials of nanoparticles synthesized by a green approach for bioremediation applications. Applied organometallic chemistry, jan 2020 34 (3). ...

-Miao Ahmedi M,Zaker F, Hossieni S, Kaviani S,zanganeh MM....Chemical characterization anti acute leukaemia activities of silver nanoparticles synthesized by a green approach for bioremediation applications. Applied organometallic chemistry, 2020

- MA Esmaili , A Kazemi,M Faranoush,, F Zaker,M Safa, M R rezvany. Polymorphisma within MTX pathway genes. Relationship between MTX levels toxicity and outcomes in Ped ALL Iranian J Basic Med Sciences.2020 23 (6), 800-809.

-Esmaili MA, Kazemi A, zake f. Faranoush M rezvany MR. Effects of reduced mir24 expression on plasma MTX levels toxicities patients outcomes in Ped ALL Reports of biochem mol bioljan 2020 8(4)358-367.

Darvishi S., ..., Hosseini A, Zaker F,The role of mir-429 in E2F3 expression in breast cancer cell line. J.Mazanderan Univ Med Scien. 2019, ,28 (168), 29-39.

-Bagheri P, Zaker F, Namjoo S. DNA methylation and its role in development of leukaemia. Review article, Int, J Med Lab, 2019, 6 (3), 153-165.

-Shams M,Zaker F,Rezvani M. Inhibitor dev conj VII def. Blood coagu and Fib 2019, 30 (1), 24-28.

-Zaker f, Sharifi MJ, Nasiri N ,Yaghmaei M, Namjo S. MCL-1 gene expression and clinic path in MDS. Int, J Med Lab, 2019 6 (1), 43-50.

-Soori A, Dorgelaleh A, Tabibian S,Hosseini MS, Zaker F,(correspond) Shams A, The relationship between snp TNFa , IL10, f II and fV with..risk inhibitor development in severe Hemophilia A., Cardiovascular Hemato disorder drug target , 2019, 19 (3), 228-232.

-Darakhshanfar F, Zaker F,,Rezvani mr.Determination of VD in patients with ALL.Arch.Med.Lab.Sci.2018 4(4),1-5.

-Amirizadeh N, Zaker F, ohrabi A. Effect of mesenchymal sc and GFs on UCBHS proliferation in ex vivo. North Khorasan J Med Sci , 2018 (10 (2), 57-64.

-Teremmahi M ,chahardouli B, toosi B, Zaker f. Kazemi A, Rostami S. Detection of R882 DNMT3A gene in AML. Iran J Ped Hematol Oncol, 2018, 8 (3), 171-178.

Toosi B, Zaker F, Alikarami....., VS-5584 as a PI3K/mTOR inhibitor enhances apoptotic effects of subtoxic dose arsenic trioxide via inhibition of NFkB activity in a B Cell Precursor ALL. Biomed pharmacotherap, 2018, 102 :428-437.

Hajjalizadeh F,Namjo S, Zaker F. Pathogenesis of ALL. Arch Med Lab Sci, 2018 4 (1), 41. Review article

-Zaker F (correspond), Ansari S, Toosi B, Sayadi M and Sharafi M. The relationship of polymorphism of RFC-1 gene and MTX serum level and related toxicity in pediatric ALL. Journal of developing drugs, 2017, 6 (3) :180

-Rostami S, Nadali F, Zaker F, Nasiri N, ,Maleki A..... Aberrant methylation of APAF1 gene in AML patients. Int.j.hem.onco.stem cell res. IJHOSCR. , 2017, 11 (3), 225-231

-Zaker F, Nasiri N, Amirizadeh N, Rezavi S M, ,Maleki A, Bakhshayesh M. Aberrant methylation suppression of APAF1 gene in MDS patients. Int.j.hem.onco.stem cell res. (IJHOSCR.) , 2017, 11 (2), 114-120.

-Elham Farhadi, Farhad Zaker (corresponding), Majid Safa, Mohammad Reza Rezvani. MiR-101 sensitizes K562 cell line to imatinib through Jak2 downregulation and inhibition of NF-κB target genes. Tumor Biology , 2016, 37(10), 14117-14128.

-Naderi M, Tabibian S, Menegatti M, Kalantar E, Kazemi A, Zaker F, Dorgalaleh A. DIC with positive D-Dimer: a controversial clinical feature in severe congenital

factor XIII deficiency in southeast iran. Blood coagulation and fibrinolysis, Feb 2016, 27 (8), 933-935.

-Sohrabi S, Amirizadeh N, Nikogoftar M, Alizadeh J, Zaker F (corresponding), Sarveazad A, Joghataei M T, Faramarzi M. Evaluation of expansion of cord blood CD34 pos cells with inhibition of TGF-B1 receptor II in co-culture with bone marrow mesenchymal stromal cells. Tissue and cell , 2016, aug 48 (4), 305-311.

-Zaker F, Amirizadeh N, Nasiri N, Razavi SM.....Gene expression and methylation pattern in promotor apoptotic gene HRK in MDS. IJMCM, 2016 , 5 (2), 90-99.

-Dorgalaleh A, Tabibian S, Hosseini MS,Naderi M, Kazemi A, Zaker F,Diagnosis factor xiii deficiency. Hematology, 2016, 2 (7), 430-9.

-Ghanizadeh S, Zakeri A, Zaker F,, Alimoghaddam K, Ghavamzadeh A, Ghuaffari SH. Significance of AZD1152 as a potential treatment against Aurora B overexpression in APL. Ann Hematol, Apr 2016, 95 (7), 1031-42.

-Dorgalaleh A, Kazemi A, Zaker F, shamsizadeh M,.....Lab .diagnosis of factor xiii deficiency. Clinc Lab , 2016, 62 (4), 491-498. Review.

-Dorgalaleh A, zaker F, Tabibian S, Alizadeh S, Dorgalele S, Hosseini S, Shamsizadeh M. Spectrum factor X gene mutations in Iranian patients with conjenital factor x deficiency. Blood coagulation and fibrinolysis, 2016, 27 (3), 324-327.

- Dorgalaleh A, Tabibian SH, Dadashizadeh GH, , kazemi A, , zaker f, Alizadeh Sh, Naderi M, Hosseini S, Varmaghani B, Rashid panah J. .Introduction of haematological and molecular algorithms for diagnosis of factor XIII deficiency in Iran laboratories. Journal of Mashhad Paramedical Science, 2015 4 (3), 7-16.

-Naderi M, , Alizadeh S, kazemi A, Tabibian S, zaker f, Bamedi T, Kashani Khatib Z, , Dorgalaleh. Central nervous system bleeding in pediatric patients with factor XIII def. A study on 23 new cases, Hematology , 2015, 20 (2), 112-118.

-Naderi M, Tabibian S, Dorgalaleh A, Alizadeh S, Zaker F, Bamedi T. Congenital factor V def, comparison the severity of clinical presentations among patients with rare bleeding disorders. Acta Hematol, 2015, 26:133 (2), 148-154 .

- Kalantari A, Zaker F(correspond), Ansari S,Sharafi H, Mohammadian M.
The effect of polymorphisms of GGH gene on Methotrexate-induced toxicity in acute lymphoblastic leukaemia..Toxin Reviews, 2015, 34 (3), 136-141.

-Kalantari A, Zaker F(correspond), Ansari S,Sharafi H, Yazdanparast SA.
The effect of polymorphisms of GGH gene on Methotrexate serum levels and toxic side in Iranian children with acute lymphoblastic leukaemia under treatment,
.Payavard Salamat, 2015, 8 (5), 451-463.

-Ghanizadeh S, Shirali S zaker f,(correspond) et al. Simvastatin synergistical potentiates antitumor effects of arsenic trioxide on human promyelocytic leukemic NB4 cells . Blood R j,2014, 11 (3):116-125.

-Nasiri N,Shieghi M, Zaker F (correspond), Hosseini S, Moosavi S A, Marjani A
.Diagnosis and biological characteristic of FLT3 mutations in AML. AIM, 2014, 17 (4), 258-261.

-Ostadebrahimi H, Jamali Z, Nazari M, Bahri M, Farahmandnia Z, Khandany BK, Taheri M, Khorramdelazad H, Hakimizadeh E, Zaker F, Rezaeian M, Hassanshahi G. CXC chemokines CXCL1, CXCL9, CXCL10 and CXCL12 are variably expressed in patients with sickle cell disease and carriers: are they predictive tools for disease complication. Clin Lab. 2014;60(1):99-104.

-Amirizadeh N, Zaker f, Nasiri N,. Evaluation of umbilical cord blood CD34⁺ hematopoietic stem cells expansion in co-culture with BM mesenchymal stem cells in the presence of Cu chelator TEPA .Blood R journal, 2014, 10 (4), 353-363.

-Sharifi MJ, Bahosh G, Zaker F(correspond), Ansari S, Arjmandi Rafsanjani K and Sharafi H. Association of 24 CT, 1249GA, and 3972 CT gene polymorphisms with Methotrexate serum levels and toxic side effects in children with acute lymphoblastic leukaemia, .Pediatric Hematology Oncology, 2014, . 31 (2), 169-177

-Rahnemoon AR, Zaker F, Izadyar M, Ansari S, Poopak B, Tadavosyan Y. Prevalence of ETV6/RUNX1 Fusion Gene in Pediatric Patients with Acute Lymphoblastic Leukemia in Iran. Int J Ped, 2013 ;23(6):681-6

-Tahmasbi MH, Joghataei MT, Soleimani M, Moosavi SA, Yazdanparast SA, Zaker F. 3D study of capillary network derived from human cord mesenchymal endothelial stem cells have differentiated into endothelial cells with VEGFR2 protein expression. Res Mol Med, 2013, 1(2), 17-21.

-Hassani S., Zaker F., Zekri A., Zaghali A., Alimoghaddam A., Ghavamzadeh A., Ghaffari S.H. Apoptotic effect of arsenic trioxide plus Azidothymidine on APL cell line (NB4) through P21 expression and cell cycle distribution changes. Blood R journal, 2013, 10 (2), 128-138.

-Ghanizadeh S, zaker f, et al. cytotoxic effects of selective inhibitors of urokinase B on viability and metabolic features in human promyelocytic leukemic cells. Payavard Salamat,2013, 7 (3), 197-206.

-Bashash D, Ghafari SH, Zaker f et al. BIBR 1532 increases arsenic trioxide – mediated apoptosis in acute promyelocytic leukaemia cells: therapeutic potential for APL. Anticancer Agents Med Chem, 2013 , 13 (7), 1115-1125 .

-Hassani s, Ghafari SH, Zaker f , zekri a, alimoghaddam k, ghavamzadeh a, zaghl a, azidothymidine hinders arsenic trioxide induced apoptosis in apl cells via ineration of p21 and attenuation of G2/M arrest. *Ann Hem*, 2013, 92 (9), 1207-1220.

- Chahardouli B , Mousavi SA, Zaker F , Saffari Z, Ostadi M, Nadali F, Ghadimi H, Rostami S, Alimoghaddam K, Ghavamzadeh A. detection of bcr-abl kinase domain mutations in patients with cml on imatinib . *Haematology*, 2013, 18 (6):328-333.

-Chahardouli B, zaker f, mousavi sa, kazemi A, ostadi m, rostami s, ghavamzadeh a. evaluation of T315I mutation frequency in CML patients after Imatinib resistanc., *haematology*, 2013 (18 (3)). 158-162.

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D-Presentation (oral and poster):

Some of them scientific member or executive of congress, invited speaker , etc with certificate:

- sohrabi s, Amirizadeh N Nikogoftar M, Zaker F evaluation of umbilical cord blood CD34 haematopoietic stem cells with inhibition of TGF-B1 receptor II in co-culture with BM mesenchymal cells, 3rd Iranian cong progress in tissue eng and regen med , Razi ,Tehran , CMRC, 19-21oct, 2016, member of panel and scientific committee,, oral

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-Ghanizadeh S, Zaker F (correspond, oncopathology research center).....Hindering effects of HMG-CoA reductase inhibitor on proliferation potential of monocytic leukaemic cells. The 8th int iran cong lab and clinic., feb 6-8 2016, oral ,OH-05.

-Zaker F, (corresponding-CMRC)), Abbaszadeh M, Kalantari A, Sharifi MJ. The relationship polymorphisms of RFC-1 , GGH, ABCC2, on methotrexate toxic side effects in children with ALL. The 8th int iran cong lab and clinic. feb 6-8 2016, poster,PH-04.

-Soori S, Dorgalaleh A, Zaker F (CMRC),The relationship between IL10 and TNFa genotypes and risk of inhibitor development in patients with haemophilia A. The 8th int iran cong lab and clinic. feb 6-8 2016, poster PH 23.

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-Zaker F.(committe scientific) (haed of panel) Molecular methods in AML . 3rd congres of novel and innovative laboratory technologyies.4-6 oct 2015. tehran

-Soltanpour MS, Amirizadeh N, Kazemi A and zaker F.Evaluation effect of direct contact with mesenchymal cells on mRNA expression and methylation of bcl-2 and mcl-1 genes in ex vivo expanded culture blood hematopoietic cells. Int cong blood, dis and clinical application, 11-14 May 2015, Yasuj

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Kalantari A, Zaker F, Ansari S. Study of effect of -401CT and +452CT polymorphisms of gamma-glutamyl hydrolase gene on methotrexate serum levels and related toxicity in Iranian acutr lymphoid leukaemic childrens. 6th int Iranian congress laboratory and clinic. 12-14 feb 2014.

Kalantari A, Zaker F. Study of effect of -401CT and +452CT polymorphisms of gamma-glutamyl hydrolase gene on methotrexate serum levels and related toxicity in Iranian acutr lymphoid leukaemic childrens. 2th congress of new lab tech. 2014.

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Ghanizadeh-vesali S, zaker f et al. simvastatin synergistically potentiates the antitumor effects of arsenic trioxide in APL NB4 cells.. 6th int and 11th nat cong in quality improvement in clinical lab , apr 20-23, 2013, lab and diagnosis, 4(18), supplement issue, p120.poster

-Soltanpour MS, Amirizadeh N, Kazemi A and zaker F. Evaluation effect of direct contact with mesenchymal cells on mRNA expression and methylation of bcl-2 and mcl-1 genes in ex vivo expanded culture blood hematopoietic cells. Advances in tissue engineering, , Tehran , CMRC, 2013, member of panel, poster,

-Nasiri N, Amirizadeh N , Zaker F. Study of expansion of umbilical cord blood CD34+ hematopoietic stem cells in presence of BM mesenchymal stem cells and Cu chelator, Advances in tissue engineering, , Tehran , CMRC, 2013, member of panel, oral

-Farhad Zaker, Mohammad Sharifi , Gholamreza Bahosh, Seyed Akbar Moosavi and Darhahi Hossein. THE INCIDENCE AND EFFECT OF ABCC2 GENE POLYMORPHISMS ON SERUM METHOTREXATE LEVEL AND RELATED TOXICITY IN CHILDREN WITH ACUTE LYMPHOBLASTIC LEUKAEMIA. 7th princess Chulabhorn int sci cong (cancer), 29 nov-3 Dec, 2012, Bangkok, abstract book, p352.as poster

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-Zaker F, et al .(2011) polymorphisms of NQO1 gene in ALL. Congress of World academy of sciences WASET, issue 74. Malaysia, Kulu Ampur, full paper, As oral.

-Zaker F, et al .(2010) Mutations of RTK and NPM1 genes in AML. Exp Hem.

ISEH, Melbourne, australia. Travel grant, As poster

-Pazhakh V and Razmkhah F (2010) MTHFR polymorphisms and risk of myeloid leukaemia. Congress of World academy of sciences, issue 67, 605-613, Bali.full paper, Oral

-Razmkhah F, Razavi M, Zaker F et al (2010), Hematologic and molecular responses imatinib in patients with CML, 15 th EHA 2010, Spain, .as poster

-Razmkhah F, Zaker F et al (2010), Cyp1A1 polymorphism and risk to leukaemia. 15 th EHA 2010, Spain, .as poster

-Mohammadzadeh M, Mohammadi M, Zaker F (2010), Detection and incidence of Kit, Flt3, mutations in AML, 15 th EHA 2010, Spain, .as poster

-Safa M, Kazemi A, Zaker F et al. (2010) Activation of cAMP inhibits DNA damage induced apoptosis in pre B ALL cells 15 th EHA 2010, Spain.

-Zaker F et al (2010) MTHFR gene polymorphisms and susceptibility to leukaemia, conferences of CMBS, Singapore, full paper, As oral

-Zaker F et al (2009) Diagnosis and frequency of flt3 mutations in pediatric and adult acute leukaemia patients. 9th Int cong Med Onc and Hem of Iran. Int J Hemato Onco and Stem Cell Res, 26, as oral

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- Atashrazm F and Zaker F(2009) High prevalence MTHFR gene A1298C polymorphism in Iran, 14th EHA in Berlin., 1199, as poster,

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-Zaker F et al (2009) Incidence of mutation of class III RTK in pediatric and adult acute leukaemia., 14th EHA in Berlin, 1200, as poster

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- Zaker F, Mohammadzadeh M ,Zaker F, Mohammadi M (2008). c-kit mutations in AML , . 10 th cong of Iranian Genetic, poster

-- Mohammadzadeh M Zaker F (2008). c-kit mutations in CBF leukaemia, 8 th cong of Hem Onc in Tehran, poster

-Zaker F, Mohammadi M, Shaikhi M, Kazemi A, Marjani A (2009) Detection of flt3 in pediatric and adult acute leukaemia. 21st IUBMB and 12 th FAOBMB . Shanghai, D-8-06.

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- Zaker F, Mohammadzadeh M , Mohammadi M , Ali Moghadam K (2007).
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- Ardjmand AR, Zaker F ,Alimoghadam K , and Ghavamzadeh A (2007). Arsenic
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 (APCC), Iran. Abstract 160.
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 internal tandem duplication and D835 in flt3 gene in Iranian adult AML patients.
 12th congress of EHA (Austria), The Hematology J, Vol 92 Supp no 1, Abstract no
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 differentiation of plant-derived agents in combination with ATRA on leukemic cells.
 11th congress of EHA (Amsterdam), The Hematology J, Vol 91 Supp no 1, Abstract
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- Zaker F, Oody A and Soleimani M (2005). In vitro effect of plant alkaloids on
 cytotoxicity and differentiation of HL60. XXX th world comgress of ISH (Istanbul),
 Turkish J Of Haematology, supp Vol 22, Abstract No 241. As poster
- F Zaker, A Oody, M Soleimani and M Mahmoodian (2003). A comparison of the
 effects of Harmaline and Urtica Dioica on anti tumoral and differentiation of HL60

cells treated with ATRA. XVII th Meeting of the International Society of Haematology (ISH), (Graz), Abstract book, No 70. As poster

-F Zaker, M. Bakhshayesh and F Osati (2003) Anti tumoral and differentiation of Harmine and Harmaline on HL60 treated with ATRA and G-CSF. 8th Annual congress of EHA, Lyon , France, 35.

-F Zaker, RL Darley, A, Al Sabah and AK Burnett (2003). Impairment of erythroleukaemia differentiation by oncogenic ras genes. 8th annual congress of EHA, Lyon , France, 196.

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- Zaker F, Rakhshan M and Izadyar M (2001) Clinicopathology feature of pediatric NHL in Iran. European Hematology Association (EHA) in Germany published in The Hematology Journal 1(supp1) 142. As poster
- Mahmoodzadeh A , Pourfathollah A A and Zaker F (2001) Synergistic effect of EPO and gamma INF in differentiation of k562 treated with cytotoxic drugs. European Hematology Association (EHA) in Germany published in The Hematology Journal 1(supplement 1) 80.
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- Zaker F, May A and Burnett A K (2000) Key regulatory gene expression during differentiation of an erythroleukaemic cells. European Hematology Association (EHA) in England published in The Hematology Journal 1 (supplement 1) 17. As poster

-Workshops and course:

-workshop- proposal Endnote (scientific member), 1390

-Workshop-how to judge papers (scientific member, 1390

-workshop-questionary

-workshop-Real time PCR (2 times), member of scientific committe

Membership: (research center, departments, journals, scientific society, etc)

1) Member of scientific committee of Cellular and Molecular Research Center (CMRC) at university since 2002 up now and organiser of scientific seminars from 2005-2009.

2) Member of scientific committee of Oncopathology research Center at university since 2008

3) Member of Molecular Medicine department at university from 2009

4) Member of of scientific committee of several journals such as:

4-1-Payavarde of Salamat, faculty of paramedical, from 2008

4-2- Olum of Azmayeshgahi, faculty of medicine , Golestan medical sciences university, from 2007

4-3 editorial board : Jacobs j hematology, int j hematology research,

4-5 scientific advisory board

5) Member of some Scientific society, transfusion society of iran , lab sciences of iran and abroad such as (EHA, ISH, ISEH , IACSIT etc).

6) member of Modern Technology Faculty –regenerative medicine and cell therapy

Academic Responsibility:

-Head of dept from 2017 and Assistant head dept of hematology of faculty of school of Allied medical sciences, 2000 up now

-Deputy of research council of faculty of school of Allied medical sciences, 2008-2009

- Member of EDO committee of faculty from 2009

- Member of Darakhshan Estedad committee of faculty from 2006 up 2010

-Member of Faculty research committee, 2005 up now

-Head of students Research committee of faculty from 2001-2005

-Member of promotion committee of scientific staff from 2010 up 2013

-Member of research lab committee of faculty from 2011 up 2013

-Educational Supervision of students of faculty at different years

-Cooperation in establishment of haematology research lab of faculty

-Establishment of haematology tests in dept of haematology at faculty

-Cooperation in establishment of MSC and PhD course of haematology in faculty

-Member of haematology board in Ministry of Health and Medical education of Iran (Revision of MSc haematology course , exams for MSC and PhD, etc) from 2008

Awards and grants:

- Travel Grant from ISEH , Melbourne, Australia
- A travel grant from EHA high light 2010, Lebanon
- award research in education jashnvareh of Dr Vosogh, iums, 2015-Jan

Patents:

- Documentation of Kit mutations in Gene Bank including FJ189474 and FJ177639
- Documentation of bcr-abl mutations in Gene Bank jx565024 and jx565025