

Behzad Poopak

Associate Professor

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Education

1999- 2005

PhD. in Hematology & Blood Banking.
Tarbiat Modarres University, Tehran / Iran

Dissertation title: Molecular Evaluation of clonality and Minimal Residual Disease (MRD) in children with B-Precursor Acute Lymphoblastic Leukemia using Immunoglobulin Heavy chain and γ/δ T-cell Receptor Gene Rearrangements.
Supervisor: Dr. Ali Akbar Pourfathollah, Ph.D.

1987 – 1992

Doctorate in Laboratory Sciences.
Shiraz Medical Sciences University, Shiraz / Iran

Dissertation title: Evaluation Acute Leukemia in Adulthood (By Technicon H-1 & Cytochemistry including Pitfalls in diagnosis.
Supervisor: Dr. Ahmad Kazemi, Ph.D.

1983 – 1986

Post – High school diploma graduating as a Laboratory Technician.
Iran Medical Sciences University, Tehran / Iran

Work experience

2025 – Present

Representative of the Laboratory Community and First Vice President of the Board of Directors of the Tehran Medical Council Organization

2018 – Present

Chief executive officer (CEO) of Amir-Payvand Knowledge based company, active in Manufacturing of Clinical Lab. Reagent especially molecular diagnostic kits & controls.

2004 – Present

Owner & Lab. Director Payvand Clinical and Specialty Laboratory, Tehran.

2018 – Present

As Lab. director of Payvand Clinical and Specialty Laboratory, Tehran Iran, Member of Molecular Diagnostic Centers Expert Laboratory of IFCC

1998-2006

Head of Medical Laboratory, Amir-al-Momenin General Hospital of Islamic Azad University, Tehran, Iran.

1996-2004

Owner & chairman of Soroush Medical Laboratory, Greater Tehran.

March 2003 – 2010 (& 1991-1996)

Head Hematology Department, Bahar Medical Laboratory (Private Lab), Tehran, Iran.

1996-1998

Design & Implementation, and commissioning of the Medical Laboratory, Javahery Hospital, Tehran, Iran.

Teaching experience**2022-Present**

Teaching Molecular Hematology (MPNs & AML) for PhD & MSc students of laboratory hematology and blood banking. Iran Medical Sciences University, Tehran, Iran.

2014-Present

Teaching Quality Assurance & Laboratory Quality Management System for PhD & Msc students of laboratory hematology and blood banking. Tarbiat Modaress University, Tehran, Iran.

2009-Present

Teaching Hematology for PhD & MSc students of laboratory hematology and blood banking. Iranian Blood Transfusion Center, Tehran, Iran.

2009-2012

Teaching Hematology for PhD students of laboratory hematology and blood banking. Tarbiat Modaress University, Tehran, Iran.

2009-2011

Teaching Hematology for MSc students of laboratory hematology and blood banking. Paramedical College, Shahid Beheshti Medical Sciences University, Tehran, Iran.

2012-2016

Teaching Immunogenetics & Genetics of Physiology for MSc students of Genetics, Islamic Azad Medical Sciences University – Tehran Unit, Tehran Iran.

2006-2008

Teaching Physiology of Blood for medical students. Tehran Medical Unit – Islamic Azad University.

1992-september 2024

Teaching Hematology, Blood Banking & Transfusion Medicine in both the theoretical & laboratory fields. Tehran Medical Unit – Islamic Azad University.

February 2000 – 2018

Lecturer on Hematology to post-graduate (Msc and PhD) students covering cytomorphology & Cytochemistry of peripheral blood & Bone Marrow Aspirations/ Quality assurance in Hematology/ case presentation. Tarbiat Modaress University, Tehran, Iran.

2006-2019

Teaching lecture of Laboratory and Nurses, Blood transfusion, in medical surgery courses. Tehran Medical Unit – Islamic Azad University.

2000 – 2008

Lecturer on Medical education including: Student assessment & Evaluation, Problem Based Learning. Educational Development Center (EDC), Tehran Medical Unit, Islamic Azad University.

Research experience**2018 – Present**

Active in Research and Development in AP-RAD Co. with production of Molecular Diagnostic Kits & Reagents

2011-2013:

Head research Project, Evaluation of Common Polymorphisms of *CYP2C19* to Determine Plavix Dose, Final report submitted to Tehran Medical Unit, Islamic Azad University

2007-2010:

Head research Project, Evaluation of N-myc amplification in children suffering Neuroblastoma, Final report, submitted to Tehran Medical Unit, Islamic Azad University

2007-2009:

Head research Project, Evaluation of Jak2 mutation in myeloproliferative disorders, Tehran Medical Unit, Islamic Azad University

2002-2006:

Head research project, Molecular evaluation of clonality & MRD in childhood B-Precursor Acute Lymphoblastic Leukemia Using Immunoglobulin Heavy chain & T-cell Receptor Gene Rearrangements. Tehran Medical Unit, Islamic Azad University.

2001-2002

Research assistant, Evaluation of Anti HBs Antibody levels in serum of workers in Amir-Al-Moemenin General Hospital, Tehran, Iran.

1995-1996

Research assistant, Evaluation of Hematologic Parameters in victims of chemical warfare. Tehran Medical Unit, Islamic Azad University.

1994-1996

Head research project, Evaluation of Hb Electrophoresis with CBC in 980 cases of minor Beta-Thalassemia & iron deficiency anemia. Hematology Department, Bahar Medical Laboratory (Private Laboratory), Tehran, Iran.

1991-1992

Thesis research project, Evaluation of Acute Leukemia in Adulthood. Shiraz Medical Sciences University. Shiraz, Iran.

Skills

- Immunophenotyping of Hematopoietic Neoplasms & MRD assay using Flow Cytometry
- Quality Management in Clinical Laboratory
- Molecular Diagnosis in Hematology / Oncology
- CEO of Manufacturing or Production of Clinical Laboratory reagents, kits and controls with focusing on PCR based molecular diagnostic kits in Knowledge based Company.
- Cytomorphology & cytochemistry of Peripheral blood & Bone Marrow Aspiration.
- Molecular Techniques (PCR, FISH)
- Education & Training: Lesson Plan Writing, Evaluation, PBL
- Computer skills: Word, PowerPoint, search engines, AI based design for applications in Molecular Lab. And production line

Training courses & workshops

May 28th -30th 2014

Diagnosis of Mature Lymphoid Neoplasms by Flow Cytometry. Swiss Flow Cytometry School, Geneva, Switzerland.

May 26th -27th 2014

Detection of Minimal Residual Disease by Flow Cytometry. Swiss Flow Cytometry School, Geneva, Switzerland.

June – July 2012

MRD analysis of Acute Leukemia using Flow cytometry. Immunopathology & Cell Therapy Laboratory – Department of Pediatrics, Yong Loo Lin School of Medicine- National University of Singapore- Center for Translational Medicine, Singapore.

November 2010

Immunofluorescence techniques (Manual methods, Microscopy, Automation & QC) Theory & Practice. Euroimmun Company, Luebeck, Germany.

September 2009 – ERIC Group Workshop

3rd Educational Workshop on Immunoglobulin Gene Analysis in Chronic Lymphocytic Leukemia. Thessaloniki, Greece

June 2007

Molecular diagnosis and monitoring of leukemias. M. Tettamanti Research Center – University of Milano- Bicocca, Italy.

Publications

Journal articles:

- 1- Ali Ahmadi, Davood Bashash, Amir Abas Navidinia, **Behzad Poopak**, Shadi Esmaeili, Derivation of a Novel Multi-Gene Prognostic Model Based on Regulated Cell Death Pathways in Acute Myeloid Leukemia: A Comprehensive Bioinformatic Analysis Integrating Gene Expression, Mutation Profiling, and Immune Infiltration, PLOS One, August 1, 2025 | <https://doi.org/10.1371/journal.pone.0328412>
<https://doi.org/10.1371/journal.pone.0328412>
- 2- Amirali Vahedi, Mohammadreza Royaei, Tahereh Madani, Francois Mercier, **Behzad Poopak**, A machine learning approach for the rapid identification of measurable residual disease in acute myeloid leukemia, Haematologica | 110 August 2025. doi: 10.3324/haematol.2024.286019
<https://doi.org/10.3324/haematol.2024.286019>
- 3- Raziye Hakak, **Behzad Poopak**, Ahmad Majd, Increased IDO expression and regulatory T cells in acute myeloid leukemia: implications for immune escape and therapeutic targeting, Blood Research, 2024, 59:42, Pages 1-9; <https://doi.org/10.1007/s44313-024-00048-0>
- 4- Setare Kheyrandish, Shiva Shadani, Aziz Eghbali, Behzad Poopak, Davood Bashash, BCR-ABL positive T cell Acute Lymphoblastic Leukemia (T-ALL): Exploring A Rare Case with A Comprehensive Review, Iran J Blood Cancer, 2024, 16(2), Pages 1-6, <https://ijbc.ir>
- 5- Mahdi Zavvar, Sina Zargaran, Hamed Baghdadi, Peyvand Poopak, Amir Hossein Poopak, Fariba Nabatchian, Yousef Fatahi, Gelareh Khosravipour, **Behzad Poopak**, Dihydrorhodamine-123 flow cytometry method: time for substantial revision in technical procedure, Laboratory Medicine, 2024, XX, 1-14; <https://doi.org/10.1093/labmed/lmae076>
- 6- Setare Kheyrandish, Shiva Shadani, Aziz Eghbali, Behzad Poopak, Davood Bashash, Case Report BCR-ABL positive T cell Acute Lymphoblastic Leukemia (T-ALL): Exploring A Rare Case with A Comprehensive Review, Iran J Blood Cancer, 2024, 16(2), 1-6 <https://ijbc.ir>
- 7- Nasibeh Bayati, Nikoo Emtiazi, **Behzad Poopak**, Mohammad Adel Ghiass, The incidence of TP53 mutations in patients with chronic lymphocytic leukemia in Iran, Asian Journal of Oncology, 2024 10(2), Pages 1-7; DOI: 10.25259/ASJO_33_2023
- 8- Hamed Baghdadi, Masoud Soleimani, Mahdi Zavvar, Gholamreza Bahoush, **Behzad Poopak**, Combination of minimal residual disease on day 15 and copy number alterations results in BCR-ABL1-negative pediatric B-ALL: A powerful tool for prediction of induction failure; Cancer Genetics, Volumes 282-283, April 2024, Pages 27-34, <https://doi.org/10.1016/j.cancergen.2023.12.004>
- 9- Fateme Arjmand, Samaneh Shojaei, Mitra Khalili, Hossein Dinmohammadi, **Behzad Poopak**, Samira Mohammadi-Yeganeh, Yousef Mortazavi, Integrating rapamycin with novel PI3K/Akt/mTOR inhibitor

microRNAs on NOTCH1-driven T-cell acute lymphoblastic leukemia (T-ALL); *BioImpacts*. 2024;14(4):28870, Pages 1-12, <https://bi.tbzmed.ac.ir/doi:10.34172/bi.2023.28870>

- 10- Raziye Hakak, **Behzad Poopak**, Ahmad Majd, Monireh Movahedi, Evaluation of regulatory T cells (CD4 + / FOXP3 +) and expression of indoleamine 2 and 3 dioxygenase (IDO) in acute leukemia by flow cytometry and Real Time PCR; *NCMBJ*, volume & issue, 13/52, December 2023, Pages 45-57.
- 11- Sasan Saket, Mohammadreza Arzaghi, Atousa Karimi, Fariba Shirvani, Mozghan Hashemieh, Sharzad Falah, **Behzad Poopak**, Hussein Soleimantabar, Mohammad Mahdi Nasehi & Victoria Cheigini, A 13-Month-Old Iranian Boy with thrombosis of the left transverse and superior sagittal sinuses due to homozygous mutations in MTHFR A1298C: [A case report & review of literature. *SVOA Neurology*. July 2023. Doi:10.58624/SVOANE.2023.04.0100.](https://doi.org/10.58624/SVOANE.2023.04.0100)
- 12- Reza Sadria, Nasrin Motamed, Mohammad Saberi Anvar, Mohammad Hassan Mehrabani Yeganeh, **Behzad Poopak**, Prognostic correlation of *NOTCH1* and *SF3B1* mutations with chromosomal abnormalities in Chronic Lymphocytic Leukemia patients. *Cancer Reports*, November 11 2022 <https://onlinelibrary.wiley.com/doi/epdf/10.1002/cnr2.1757>
- 13- Kobra Farahani, **Behzad Poopak**, Mostafa Ebadi, Bostan Roudi, Evaluation of BRAF-V600E gene mutation in colon tissue of patients with colorectal cancer in Iran. *Medical Science Journal of Islamic Azad University* Vol. 32, No.3, autumn 2022. ORCID ID: 0000-0002-3576-767X. https://tmuj.iautmu.ac.ir/browse.php?a_id=2006&sid=1&slc_lang=en
- 14- Raziye Hakak, **Behzad Poopak**, Evaluation of regulatory T cells (CD4 + / FOXP3 +) and expression of indoleamine 2 and 3 dioxygenase (IDO) in acute leukemia by flow cytometry and Real Time PCR, *New Cellular & Molecular Biotechnology Journal*, accepted in September 2022 <http://ncmbjpiu.ir/article-1-1583-en.pdf>
- 15- Hamed Baghdadi, Masoud Soleimani, **Behzad Poopak**, Gholamreza Bahoush, Mahdi Ghorbani, Mehdi Shakouri Khoramtaash, Mahmoud Vahidi, Mojgan Mohammadimehr, *IKZF1* alteration in pediatric B-cell acute lymphoblastic leukemia: a single center report on the frequency of *IKZF1* deletions and its subtypes. *Archives Advances in Biosciences*, accepted in September 2022. <https://journals.sbmu.ac.ir/aab/article/view/39286>
<https://journals.sbmu.ac.ir/aab/article/view/39286/31381>
- 16- AmirAli Vahedi, Tahereh Madani Isfahani, Behrooz Gharib, **Behzad Poopak**, [‘Harlequin cells’ in lymphocyte variant hypereosinophilia](https://doi.org/10.1002/jha2.576). *eJHaem*, recently accepted, Sep. 06, 2022; Article ID: JHA2576 Article DOI: 10.1002/jha2.576, <https://www.ncbi.nlm.nih.gov/pmc/articles/PMC9713067/>
- 17- Fatemeh Memari, Vahid Tavakolpour, Nasrin Mohajeri, **Behzad Poopak**, Parviz Fallah, Effat Alizadeh, Fatemeh Kouhkan, Nosratollah Zarghami, Distinct power of bone marrow microRNA signatures and tumor suppressor genes for early detection of acute leukemia. *Clinical and Translational Oncology*, Accepted: 13 January 2022, doi: 10.1007/s12094-022-02781-3. <https://pubmed.ncbi.nlm.nih.gov/35247197/>
- 18- Mohammadali Jahangirpour, Amirali Vahedi, Hamed Baghdadi, Tahereh Madani, Ali Behvarmanesh, Mohammad Alidadi, Mohadese Hashem Boroojerdi, Saba Mohammaei, Peyvand Poopak, Amirhossein Poopak, Gelareh Khosravi Pour, **Behzad Poopak**, [Paroxysmal nocturnal haemoglobinuria, diagnosis and haematological findings. first report from Iran, model for developing countries](https://doi.org/10.1002/jha2.410). *eJHaem*. 2022; 1-6. DOI: 10.1002/jha2.410 <https://onlinelibrary.wiley.com/doi/full/10.1002/jha2.410>
- 19- Mahda Delshad, Ava Safaroghli-Azar, Atieh Pourbagheri-Sigaroodi, **Behzad Poopak**, Shervin Shokouhi, Davood Bashash, [Platelets in the perspective of COVID-19: pathophysiology of thrombocytopenia and its implication as prognostic and therapeutic opportunity](https://doi.org/10.1016/j.intimp.2021.107995). *International Immunopharmacology* 99 (2021) 107995, <https://doi.org/10.1016/j.intimp.2021.107995>

- 20- Fatemeh Sheikhsoufa, **Behzad Poopak**, Sajjad Firuzyar, Fatemeh Roudbari & Mojtaba Ghadiany, [A Cross-Sectional Study for Evaluation of KRAS and BRAF Mutations by Reverse Dot Blot, PCR-RFLP, and Allele-Specific PCR Methods Among Patients with Colorectal Cancer](#). Avicenna Journal of Medical Biotechnology, Volume 13, Issue no. 4, 183-191; <http://dx.doi.org/10.18502/ajmb.v13i4.7203>.
<https://www.ajmb.org/Article?id=40475>
- 21- Mahboobeh Shojaei, Hamid Rezvani, Azita Azarkeivan, **Behzad Poopak**, ABL Kinase Domain Mutations in Iranian Chronic Myeloid Leukemia Patients with Resistance to Tyrosine Kinase Inhibitors. Lab Med. 2021 Mar 15;52(2):158-167. doi: 10.1093/labmed/lmaa052
<https://pubmed.ncbi.nlm.nih.gov/32821940/>
- 22- Baccarani M., Iacobucci L., • Chiaretti S • Foà R. • Balasubramanian P • Paietta E • Foroni L • , Jeromin S • Izzo B., Spinelli O. , Varma N. , Menif S., Terragna C. , Seth C., Bidet A., Coriu D., Lunghi F., Mayer J. , Scappini B., Langabeer S., Maier J., Burt E., Candoni A., Albano F., Luppi M. , Zupan I., Lion T., Zadro R. di Raimondo F., **Poopak B.**, Rege-Cambrin G., Annunziata M. , Ayala A. , Salinas-Viedma V., Ines Prado A., Milner B., Galimberti S., Janssen J. , Polli V., Comba L., Borsellino B., Annibaldi O., Crugnola M., Passamonti F., In Ph+*BCR-ABL1*P210+ acute lymphoblastic leukemia the e13a2 (B2A2) transcript is prevalent. Leukemia volume 34, pages 929–931 (2020), doi.org/10.1038/s41375-019-0591-9
<https://www.nature.com/articles/s41375-019-0591-9>
- 23- Baccarani M., Castagnetti, Gabriele Gugliotta, Rosti G., Soverini S., Albeer A., Pffirmann M., International BCR-ABL Study Group members: **Poopak B.** The proportion of different *BCR-ABL1* transcript types in chronic myeloid leukemia. An international overview. Leukemia volume 33, pages 1173–1183 (2019),doi.org/10.1038/s41375-018-0341-4
<https://www.nature.com/articles/s41375-018-0341-4>
- 24- Fariba Rad, Mohsen Hamidpour, Akbar Dorgalaleh, Behzad Poopak. The Effect of Demographic Factors and VKORC1 1639 G>A Genotypes on Estimated Warfarin Maintenance Dose in Iranian Patients under Warfarin Therapy. Indian J Hematol Blood Transfusion, (Jan-Mar 2019) 35(1):167–171
<https://doi.org/10.1007/sharle12288-018-0987-0>
- 25- **Poopak B.**, Khosravi A., Bahoush-Mehdiabadi GR., Madani T., Khodadi E, Farahani C., Vahedi AA, Khosravipour G., Poopak P., Poopak AH. Mixed-phenotype acute leukemia characteristics: first report from Iran. Clinical and Experimental Medicine volume 18, pages 513–521 (2018)
<https://link.springer.com/article/10.1007/s10238-018-0520-7>
- 26- Valikhan A., **Poopak B.**, Ferdowsi S., Azizi Tabesh G., Ghaffari SH., Saraf Kazerouni E., Rezaei N., Amirizadeh N., *ASXL1* and *JAK2V617F* gene mutation screening in Iranian patients with chronic myeloid leukemia. Asia-Pacific Journal of Clinical Oncology 2017; 13(2):e41-47.
<https://doi.org/10.1111/ajco.12588>
<https://onlinelibrary.wiley.com/doi/10.1111/ajco.12588>
- 27- Parsania M., **Poopak B.**, Pouriaeyevali MH., Haghghi S., Amirkhani A., Nateghian A., [Detection of Human Metapneumovirus and Respiratory Syncytial Virus by Real-Time Polymerase Chain Reaction Among Hospitalized Young Children in Iran](#). Jundishapur J Microbiol 2016; 9(3):e32974
<https://pubmed.ncbi.nlm.nih.gov/27226877/>
- 28- F Roudbari, **B Poopak**, F Sheikhsoufa, M Ghadiani. Evaluation of frequency of Kirsten rat sarcoma gene mutations in Iranian colorectal cancer. Tehran Univ Med J (TUMJ) 2016; 74(6):392-9.
https://tumj.tums.ac.ir/browse.php?a_id=7655&slc_lang=en&sid=1&printcase=1&hbnr=1&hmb=1
- 29- **B Poopak**, S Taghdisi, M Heidari, P Fallah, G Khosravipour, N Safari, S Rabieipoor. CYP2C19 polymorphisms and their importance in Clopidogrel antiplatelet therapy. Res Mol Med (RMM) 2016, 4(3): 23-31.
https://bloodjournal.ir/browse.php?a_id=782&sid=1&slc_lang=en

- 30- **Poopak B.**, Rastan H., Rabiei poor S., Safari N., Jahangirpoor M., Madani T., Khosravipoor G.. Evaluating the diagnostic value of braf – v600e mutation detection in Iranian patients with hairy cell leukemia. *URMIA MED J* 2016; 26(10): 881-888.
<http://umj.umsu.ac.ir/article-1-3193-en.html>
- 31- Nateghian A, Haghighi S, Parvini B, **Poopak B**, Pooriaye vali M H, Parsania M. Comparison of clinical .demographic and laboratory data from lower respiratory tract infection due to respiratory syncytial virus and human metapneumo virus. *RJMS*. 2015; 22 (134) :84-90
https://rjms.iums.ac.ir/browse.php?a_id=3926&sid=1&slc_lang=en
- 32- Tabib A., Najibi B., Dalili M., Baghaei R., **Poopak B.**, Enzyme Polymorphism in Warfarin Dose Management After Pediatric Cardiac Surgery. *Res Cardiovascular Med* 2015; 4(3): e27963. doi: [10.5812/cardiovascmed.27963v2](https://doi.org/10.5812/cardiovascmed.27963v2)
- 33- L Rejali, **B Poopak**, M Hasanzad, F Sheikhsofla, A S Varnoosfaderani, N Safari, S Rabieipoor. Characterizing of Four Common BCR-ABL Kinase Domain Mutations (T315I, Y253H, M351T and E255K) in Iranian Chronic Myelogenous Leukemia Patients with Imatinib Resistance. *Iran J Cancer Preven.* 2015; 8(3):e2334. doi: [10.17795/ijcp2334](https://doi.org/10.17795/ijcp2334)
<https://www.ncbi.nlm.nih.gov/pmc/articles/PMC4581365/>
- 34- **B Poopak**, S Rabieipoor, N Safari, E Naraghi, F Sheikhsofla, G Khosravipoor. Identification of CYP2C9 and VKORC1 polymorphisms in Iranian patients who are under warfarin therapy. *International Journal of Hematology-Oncology and Stem Cell Research*. 2015. 9(4):185-192.
<https://ijhoscr.tums.ac.ir/index.php/ijhoscr/article/view/370>
- 35- **Poopak B.**,Kord Valeshabad A., Elahi F., Rezvani H., Khosravipour G., Jahangirpour MA., Bolouri S., Golkar T., Salari F., Shahjahani M., PCR Analysis of IgH & TCR- γ Gene Rearrangement as a Confirmatory Diagnostic Tool for Lymphoproliferative Disorders. *Indian J Hematol Blood Transfus.*, 2014 DOI 10.1007/s12288-014-0387-z. Published online.
<https://www.ncbi.nlm.nih.gov/pmc/articles/PMC4275529/>
- 36- **Poopak B.**, Saki N., Purfatholah AA., Najmabadi H., Mortazavi Y., Arzanian MT., Khosravipour G., Haghnejad F., Salari F., Shahjahani M., Pattern of Immunoglobulin & T-cell Receptor- δ - γ Gene Rearrangements in Iranian Children with B-Precursor Acute Lymphoblastic Leukemia. *Hematology*, 2014 Jan 3. <https://doi.org/10.1179/1607845413Y.0000000126>
- 37- Imeni M, Hasanzad M, Naji T, **Poopak B**, Babanejad M, Sanati H R, et al . Analysis of the association Hind III Polymorphism of Lipoprotein Lipase gene on the risk of coronary artery disease. *Res Mol Med (RMM)*. 2013; 1 (3) :19-24, <http://rmm.mazums.ac.ir/article-1-58-en.html>
- 38- Rahnemoun 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. *Ira J Pediatr*. 2013; 23(6); 681-686. <https://pubmed.ncbi.nlm.nih.gov/24910748/>
- 39- Paryan M, Mohammadi-Yeganeh S, Samiee SM, Soleimani M, Arefian E, Azadmanesh K, **Poopak B**, Mostafavi E, Karimipoor M, Mahdian R., Investigation of deregulated genes of Notch signaling pathway in human T cell acute lymphoblastic leukemia cell lines and clinical samples. *Mol Biol Rep*. 2013 Oct; 40(10):5531-40. <https://www.ncbi.nlm.nih.gov/pmc/articles/PMC4440088/>

- 40- Rahnemoon AR., Izadyar M, Ansari S., **Poopak B.**, Tadevosyan Y., Moosavi SA., Falah Azad V., Prevalence of *ETV6/RUNX*, Fusin Gene in Pediatric Patients with Acute Lymphoblastic Leukemia in Iran. Iran J Pediatr. 2013 Dec; 23(6): 681–686. <https://www.ncbi.nlm.nih.gov/pmc/articles/PMC4025127/>
- 41- Rahnemoon AR., Izadyar M, **Poopak B.**, *E2A/PBX* and *MLL/AF4* Fusion Genes in Childhood Acute Lymphoblastic Leukemia in Iranian Population. Journal of Scientific and Practical Medicine, 2013, 16(5-81):38-40.
- 42- **Poopak B.**, Farshdousti Hagh M., Saki N.; Elahi F., Rezvani H., Khosravipour G., Jahangirpour MA., Bolouri Ebrahimi SS., Golkar T., Falah P., Jak2 V617F Mutation in Iranian Patients with Myeloproliferative Neoplasms: Clinical and Laboratory Findings. Turkish Journal of Medical Sciences, 2013, 43:347-353. <https://doi.org/10.3906/sag-1205-11>
- 43- **Poopak B.**, Rezvani H., Farshdousti Hagh M., Saki A., Falah P., Khosravipour G., Jahangirpour MA., Bolouri Ebrahimi SS., Golkar T., Saki N.; Thrombophilic Mutations in Iranian Patients with Thrombophilia. Lab Medicine, winter 2013, 44(1):62.
- 44- Pedram M., Heidari M., Keikhaei B., Malamiri RA., **Poopak B.**, Fekri K., Impact of N-myc Amplification on Median Survival in Children with Neuroblastoma. J Compr Ped, 2012, 3(1):32-36.
DOI: [10.17795/compreped-7273](https://doi.org/10.17795/compreped-7273)
- 45- **Poopak B.**, Arzanian MT., Vosough P., Gharib A., Hamidieh AA., Ehsani M., Parsania M., Yousefian A., Jahangirpour MA., Farahani K. Evaluation of MYCN amplification in Iranian neuroblastoma patients by conventional and Real Time PCR. Medical Sciences Journal of Islamic Azad University-Tehran Medical Branch. 2011; 21(3):188-195. <https://tmuj.iautmu.ac.ir/article-1-497-en.html>
- 46- **Poopak B.**, Rezvani H, DiFeo A, Martignetti JA, Khosravipour G, Yousefian A, Farahani K, Haghnejad Doshanlo F and Saki N. The first report of homozygous May–Hegglin anomaly E1841K mutation. European Journal of Haematology. April 2011; 86(4): 357. DOI: [10.1111/j.1600-0609.2010.01553.x](https://doi.org/10.1111/j.1600-0609.2010.01553.x)
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- 47- Sadeghi B., Abroun S., **Poopak B.**, Hajfathali A., Saki N., Vaghef N., [The Role of Myeloma Cells to Osteoclast Activation. Yakhteh Medical Journal. Autumn 2010, 12\(3\):357-362.](#)
- 48- **Poopak B.**, Yousefian A, Rezvani H, Sharifian R, Ghadiany M, Elahi F, Shahrabi A, Jhangirpour M, Sadeghi B, Khosravipour G, Salahmand M, Farahani K. Frequency of JAK2V617F Mutation In Iranian Patients With Polycythemia Vera (PV), Essential Thrombocythemia (ET) and Primary Myelofibrosis (PMF). Medical Sciences Journal of Islamic Azad University-Tehran Medical Branch. 2010; 20(1):29-35. <https://tmuj.iautmu.ac.ir/article-1-280-en.html>
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- 57- **Poopak B.**, Pourfathollah AA, Najmabadi H, Mortazavi Y., et al., 2005.Analysis of IgH gene rearrangement using PCR for evaluation of clonality & MRD in children with ALL. *Daneshvar* June-July 2005; 57:21-26.
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- 58- Zanganeh M., **Poopak B.**, Khavari Z., Valikhani M., Parsania M., Evaluation of Immunogenicity of Hepatitis B Vaccination in Health Workers. *Medical Sciences Journal of Islamic Azad University-Tehran Medical Branch.*2004; 14(1):13-22. URL: <http://tmuj.iautmu.ac.ir/article-1-237-en.html>
- 59- **Poopak B.**, 2004.Internal quality control in hematology. *Azmayeshgah & Tashkhis*, 1: 20-25.
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- 61- **Poopak B.**, 1993. Significance of RPI in Evaluation of Anemia. *Gashtag*, 2(1): 31-32.
- 62- **Poopak B.**, 1993. Hemoglobin A2 & its Applications (Review). *Gashtag*, 2(1): 20-22.
- 63- **Poopak B.**, 1992. Red cell Distribution width & its significance in Hematology. *Gashtag*, 1(2):35-36.
- 64- **Poopak B.**, Rakhshan M., Eftekhari H., 1992. Laboratory Diagnosis of Acute Leukemia. *Gashtag*, 1(2): 4-10.

Books (translation):

- The 2016 revision to the World Health Organization classification of lymphoid neoplasms, myeloid neoplasms and acute leukemia, 2017.
- Standardization of nomenclature, diagnosis and reporting of blood cell morphology according to the ICSH guideline. 2016.
- Latest recommendations on management of diagnosis and treatment of chronic myelogenous leukemia (CML). 2015. (Translated under my supervision).

- Textbook of Blood Banking & Transfusion Medicine, 2005 (Translated under my supervision).
- Translation, Interpretation of laboratory Tests, J. Wallach. 1999. (Translated under my supervision).

Educational material:

- Atlas of cytomorphology of Bone Marrow Aspiration, educational CD. Tehran Medical unit, Islamic Azad University, Tehran, Iran. 2003

Presentations

Conference/oral presentations (last 5 years):

1. Hematological Manifestations of Long CoVID, A review of Post-Acute Sequelae of SARS-CoV-2 Infection (PASC), 22 January 2026, Emerging and Re-emerging Diseases with focus on Immunology in Post-CoVID era and Dengue fever, Research center of molecular Immunology - Teheran Medical Sciences University, Conference Hall of the Iranian Medical Council Organization – Tehran Iran.
2. Post-COVID Hematologic Abnormalities. 30 June 2025, 4th session: Hematologic and Coagulation abnormalities in Post-CoVID emerging and re-emerging diseases, Research center of molecular Immunology- Teheran Medical Sciences University, Tehran Iran.
3. Special consideration in MRD of pediatric acute leukemias following immunotherapy. January 15-16, 2025 The Personalized Medicine and Immunotherapy in Childhood Malignancy, 17th National Congress of Iranian Pediatric Hematology & Oncology Society. Hotel Eram Tehran Iran.
4. Laboratory diagnosis of Aplastic anemia / PNH. December 2024; Iranian Pediatric Hematology & Oncology Society, Tehran Iran.
5. Update of MyeloProliferative Neoplasms, Panel discussion and case presentation. 16th International Congress of Laboratory and Clinic, 21-24 December 2024, Tehran Iran.
6. Role of MRD in Pediatric Acute Lymphoblastic Leukemia and Acute Myeloid leukemia. 18-20 June 2024, The 16th national conference of the Iranian Pediatric Hematology & Oncology Society, Tabriz Iran.
7. Application Measurable Residual Disease in Acute Myeloid Leukemia, 15 February 2024, Panel of Challenge & Opportunities in application of MRD analysis for Patients suffering from Acute Leukemia, Tehran Medical Sciences University, Tehran Iran.
8. Chronic Myeloid leukemia (CML), *BCR::ABL1+* Diagnosis & Monitoring, 26 May 2022, Seminar of CML, Salar dareh, Mazandaran Medical Sciences University.
9. Molecular monitoring of Pediatric CML, 20 January 2022, Webinar of CML Update, Pediatric Hemato-Oncology association, Tehran Iran.
10. Paroxysmal Nocturnal Hemoglobinuria, PNH: Laboratory Diagnosis, Blood & Bone Marrow Research Center of Mofid Children Hospital, 7 January 2021
11. Online presentation: Chronic Lymphoid Neoplasms: Morphology & Immunophenotyping, May 2020
12. Online presentation: on CoVID-19 & Clinical Laboratory Tests (Molecular, Serological & Routine) With emphasis on safety, specimen collection & interpretation, April 2020
13. Acute Lymphoblastic Leukemia: Adolescent and young adults, January 2020 seminars in adolescent and young adult cancers, Esteghlal Hotel, Tehran Iran.
14. Consensus on *BCR-ABL1* Reporting in Chronic Myeloid Leukemia, CML, December 2019, Clinic and Laboratory Congress, Faculty of medicine, Shahid Beheshti Medical Sciences University.
15. Molecular biomarkers in myeloproliferative neoplasms, December 2019, Novartis scientific Board Forum.
16. Immunophenotyping in Chronic Lymphoid Neoplasms, 28th November 2018, Seminar of New Era in Low-Grade Lymphoproliferative Disorders, Imam Khomeini Hospital, Tehran Iran.
17. Minimal/Measurable Residual Disease: Next Generation Flow Cytometry Analysis.5-7 September 2018, 3rd biennial International Pediatric Oncology Congress in Memory of Prof. Parvaneh Vossough. Mahak Charity Children Hospital, Tehran Iran.
18. Molecular assessment of biomarkers in colorectal cancers, 19th July 2018. COMBAT (Colorectal Cancer Multidisciplinary Board on personalized Approach to Therapy), Merck Co., Spinaz Palace Hotel, Tehran Iran

19. Clinical application of flow cytometry. 26-28 April 2018, 14 International Congress of Immunology & Allergy. Tehran Iran.
20. Workshop on Quality Assurance in clinical flow cytometry for clinical Lab. Auditor of Ministry of health & Medical education. 29 January 2018. Health reference lab. Tehran Iran.
21. Workshop on flow cytometry & Immunophenotyping for clinical Lab. Auditor of Ministry of health & Medical education. 15 January 2018. Health reference lab. Tehran Iran.
22. Evaluation of the Minimum Residual Disease (MRD) in Acute Lymphoblastic Leukemia of B Cells by Flow Cytometry Technique. 26-28 Oct 2017, 5th Congress on Novel & Innovative Laboratory Technologies, Tehran Iran.
23. Chronic Myelogenous Leukemia BCR-ABL1+, CML Molecular Monitoring, 12 Oct 2017, CML forum of Novartis, Spinas Palace Hotel, Tehran Iran.
24. Challenges in the Laboratory Diagnosis of Anemia. 2017, 10th international & 15th national congress on quality improvement. Iranian Association of Laboratory Doctors. Tehran Iran.
25. Diagnosis of Body Fluid Involvement by Hematopoietic Neoplasms Using Flow Cytometry, 2nd Biennial International Pediatric Oncology Congress in Memory of prof. Parvaneh Vossough, 11-13 May 2016, Tehran Iran.
26. Quality Management System in Molecular Lab. with emphasis on Quality Assurance, 2015, 9th international & 14th national congress on quality improvement. Iranian Association of Laboratory Doctors. Tehran Iran.
27. Evaluation of the Education / Training in Clinical Laboratory Sciences, Health System Needs, 2015, 8th international & 13th national congress on quality improvement. Iranian Association of Laboratory Doctors. Tehran Iran.
28. Peripheral Blood Smear: Normal and Leukemia, 15 Jan 2015, Avicenna Research Institute, Tehran Iran.
29. ELN Guideline for CML Molecular Monitoring, Cases & Review, 22 May 2014. 2nd ELN Academy Meeting, Esteghlal Hotel, Tehran Iran.
30. Minimal Residual Disease (MRD) Assay using Flow Cytometry, 15-17 May 2014. First International Pediatric Oncology Congress in Memory of Professor Parvaneh Vosough. Mahak Hospital Tehran Iran.
31. Clinical Laboratory & Molecular Bio-Markers in Malignancies, 2014. 7th international & 12th national congress on quality improvement. Iranian Association of Laboratory Doctors. Tehran Iran. The Doctorate in Clinical Laboratory Science in USA, 2014. 7th international & 12th national congress on quality improvement. Iranian Association of Laboratory Doctors. Tehran Iran. The Role of External Quality Assessment in the Quality Improvement of Medical Laboratories, 2014. 7th international & 12th national congress on quality improvement. Iranian Association of Laboratory Doctors. Tehran Iran.
32. Role of Training & Competency Assessment in Quality Improvement of Clinical Laboratories. 2014, Hospital Management Congress Human Resource: the role of education in empowering employees in the health sector. 15-16 Feb. 2014. Sharif University of Technology, Tehran Iran.
33. 2013 ELN recommendations for the MRD Monitoring of CML, 2014, 1st ELN Academy Meeting. Tehran Iran.
34. Review of Accreditation and establishment of Accreditation Organization for Clinical Laboratories in Iran. 2014, Medical central organization. Tehran, Iran.
35. Body Fluid Analysis: Hematologic Approach. 2014, Shahid Fayazbakhsh Hospital, Social Insurance Organization, Tehran, Iran.
36. Minimal Residual Disease Assay Using Flow Cytometry, 2013. Monthly Hematology Department Mofid Children Hospital, Tehran Iran.
37. Immunophenotyping for Hematologic Malignancies, 2013. Hematology Ward Taleghani Hospital, Tehran Iran.
38. Thrombophilia: Laboratory Diagnostic Approach, 2013. 6th international & 11th national congress on quality improvement. Iranian Association of Laboratory Doctors. Tehran Iran.
39. Professional Approach for Improving Quality of Cooperation between Staff of Nursing and Clinical Laboratory, 2013. 6th international & 11th national congress on quality improvement. Iranian Association of Laboratory Doctors. Tehran Iran.

Conference/poster presentations:

- Expression of Key Long Non-Coding Rnas, 7SK and PCA3, in Newly Diagnosed ALL. 2017, 10th international & 15th national congress on quality improvement. Iranian Association of Laboratory Doctors. Tehran Iran.

- Molecular Diagnosis of Minimal Residual Disease in Iranian Children Suffering B-Precursor Acute Lymphoblastic Leukemia Using Immunoglobulin Heavy Chain & Kappa Light Chain Gene.
- Rearrangements by PCR, 2007. 19th Asian Pacific Cancer Conference, Tehran Medical Sciences University, Tehran Iran.
- Malignant B cell lymphomas versus benign lymphoproliferations, Role of immunoglobulin heavy Chain gene rearrangement analysis, 2007. 19th Asian Pacific Cancer Conference, Tehran Medical Sciences University, Tehran Iran.
- Evaluation of *N-Myc* gene amplification in Iranian children suffering Neuroblastoma by differential PCR, 2007. Asian Pacific Congress Cancer, Tehran Medical Sciences University, Tehran Iran.
- Evaluation of clonality in Iranian children with B-Precursor Acute Lymphoblastic Leukemia Using IgH & TCR-Delta Gene Rearrangements. European Congress of Human Genetics, 2003. Birmingham, England.

Workshop presentations (Last 5 years):

1. Hematology Case Presentation Workshop, 16th Congress of Laboratory and Clinic, 21-24 December 2024, Tehran Iran.
2. Principle of Clinical Flow Cytometry and Quality Assurance for Auditors of Ministry of Health & Medical Education, Jan 2018, Health Reference Lab.
3. One day workshop on evaluation of Peripheral Blood Smear: Normal, Benign & Malignant disorders, Kerman Branch of Iranian Association of Clinical Lab. Doctors, 2017, Kerman Iran
4. Workshop on Peripheral Blood Smear in Leukemia Diagnosis, Alborz Medical Sciences University, 2016, Karaj Iran.
5. Workshop on Hematology: Normal to hematopoietic neoplasms, BM exam, PBS in Leukemia, MRD assay by Flow cytometry, Case presentation, Iran Medical Sciences University, 2016. Tehran Iran.
6. Workshop on Quality Assurance in Hematology for Colleagues from Sudan, Reference Health Lab. 2013. Tehran Iran.
7. Laboratory techniques and Anemia, 2011. Continuous medical education program of Iranian Association of Laboratory Doctors. Tehran Medical University.
8. Peripheral Blood Smear Interpretation, 2011. Tehran 4th international & 9th national congress on quality improvement. Iranian Association of Laboratory Doctors. Tehran Iran.

Academic Service

2019 –7 July 2024:

Board or Committee member of Clinical Laboratory Sciences, education assistant, Ministry of Health & Medical Education

2018:

Scientific Secretary of 12th International and 17th National Congress on Quality Improvement of Clinical Laboratory, Tehran Iran.

2018 – Present:

Secretary of Specialty Council of Clinical Laboratory Sciences, Medical Sciences University of Islamic Azad University.

2018-2020:

Member of high council of Iranian Blood Transfusion organization

2017- Present:

Member of Material and Laboratory devices committee of Health Technology Council, Ministry of Health and Medical Education.

2008-2016: Chairman of International and National Congress on Quality Improvement of Clinical Laboratory, Tehran Iran.

2008-2014

Head Paramedical Sciences College, Tehran Medical Branch, Islamic Azad University.

1993 - 2008

Head Laboratory Sciences Department, Tehran Medical Branch, Islamic Azad University.

2001 – 2013

Member of Educational Development Center of Tehran Medical Branch, Islamic Azad University

2006-present

Member of Special Council of Hematology Department- Tarbiat Modaress University, Tehran–Iran.

1992 – Present

Member of Educational Council, Tehran Medical unit, Islamic Azad University, Tehran Iran.

Aug. 2003 – Presents

Member of Research Council, Tehran. Medical unit, Islamic Azad University, Tehran, Iran.

1992 – 1998

Head of Medical School's teaching Laboratories, Tehran Medical Unit, Islamic Azad University.

Professional memberships

2016- Present

Corresponding member of International Federation of Clinical Chemistry and Laboratory Medicine, Committee on Clinical Laboratory Medicine (IFCC EMD C-CLM)

2008 – 2016

Chairman of Iranian Association of Laboratory Doctors, Tehran, Iran.

1992 – Present

Member of Iranian Association of Laboratory Doctors, Tehran, Iran.

2002 – 2006

Member of Transfusion Committee, Amir – al – Momenin Hospital, Tehran Medical Unit, Islamic Azad University, Tehran, Iran.

Oct. 2003 – Present

Member of Scientific Association of Iranian Blood Transfusion, Tehran, Iran.

2001-2003

Member of Diagnostic Medical Products Council Hematology Branch, Ministry of Health & medical education, Tehran, Iran.