

## Curriculum Vitae

September 2025



### Personal Profile:

- ✧ **Full name:** Mohammad Hossein Ahmadi
- ✧ **Nationality:** Iranian
- ✧ **Phone No.:** +985138846730, 2028 (office)
- ✧ **E-mail:** ahmadimh@mums.ac.ir & ahmadi.hemato@gmail.com
- ✧ **Postal address:** Department of Laboratory Sciences, School of Paramedical and Rehabilitation Sciences, Mashhad University of Medical Sciences, Mashhad, Razavi Khorasan Province, Iran. Postal code: 9177949025.

### Full detailed of my education courses:

#### 1. High school of Natural Sciences from 2003 to 2007 in Sari, Iran

#### 2. Academic Background (Higher Education)

- ✧ AD of *Laboratory Sciences* from 2007 to 2009 in Babol University of Medical Sciences, Mazandaran, Iran.
- ✧ BSc of *Laboratory Sciences* from 2010 to 2012 in Mashhad University of Medical Sciences in, Mashhad, Iran.
- ✧ MSc. of *Laboratory Hematology and Blood Transfusion Science* from 2012 to 2015 in High Institute for Research and Education in Transfusion Medicine, Tehran, Iran. The title of my thesis was “*Fetal RHD Genotyping in Plasma of Rh-Negative Pregnant Women by Real-Time PCR*”.
- ✧ Ph.D. of *Laboratory Hematology and Blood Transfusion Science* from 2016 to 2020 in High Institute for Research and Education in Transfusion Medicine, Tehran, Iran. The title of my thesis was “*Noninvasive Determination of Fetal RHD Genotype by Cell-free Fetal DNA and Using Real-Time PCR and Specific Probes with TaqMan based Technology*”.

### Research Interests:

- ✧ Anemia (especially HDFN)
- ✧ Leukemia

- \* Molecular hematology
- \* Transfusion medicine and blood banking
- \* Blood components preparation and qualification
- \* Molecular Immunohematology (especially Blood Group Genotyping by Cell-free Fetal DNA).

## **Publications:**

### ***Papers:***

- \* **Ahmadi MH**, Hantuoshzadeh S, Okhovat MA, Nasiri N, Azarkeivan A, Amirizadeh N. *Fetal RHD Genotyping from Circulating Cell-Free Fetal DNA in Plasma of Rh Negative Pregnant Women in Iran. Indian J Hematol Blood Transfus.* 2015; 32(4): 447–453.
- \* **Ahmadi MH**, Amirizadeh N, Hantushzadeh S, Okhovat MA, Sayyadi M, Valikhani A, et al. *Fetal RHD genotyping of RhD negative women by Real-Time PCR. Sci J Iran Blood Transfus Organ.* 2016; 13(1): 19-28.
- \* Sayyadi M, Shaiegan M, Nikougofar Zarif M, Vaezi M, Malek Mohammadi A, **Ahmadi MH**, et al. *Platelet compatibility assessment between AML patients and platelet donors by flow cytometry. Sci J Iran Blood Transfus Organ.* 2016; 13(1): 29-27.
- \* Valikhani A, Rezaei M.S, Alaei M, Poopak B, Amirizade N, **Ahmadi M.H.** *Study of ASXL1 gene mutation in Chronic Myelogenous Leukemia. Sci J Iran Blood Transfus Organ.* 2017; 13(4): 324-332.
- \* **Ahmadi MH**, Amirizadeh N, Rabiee M, Rahimi-Sharbat F, Pourfathollah AA. *Noninvasive Fetal Sex Determination by Real-Time PCR and TaqMan Probes. Rep Biochem Mol Biol.* 2020; 9(3):315.
- \* **Ahmadi MH**, Pourfathollah AA, Rabiee M, Amirizadeh N. *Noninvasive Prenatal Diagnosis of Fetal RHD Status Using Cell-free Fetal DNA in Maternal Plasma. J Reprod Health Med.* 2022;23(2):128-34.
- \* Sadeghian H, Zarrinfar H, Safdari H, **Ahmadi MH**, Tahan M. *Increasing the antifungal effect of biosynthesized selenium nanoparticles using Aspergillus fumigatus. Journal of Knowledge & Health in Basic Medical Sciences.* 2023; 8: 40-51.
- \* **Ahmadi MH**, Maleknia M, Javan MR, Abdolalian M, Golshahi F, Elham Vahabi. *Hematological Inflammatory Indicators in Women with Gestational Diabetes. Iranian Journal of Obstetrics, Gynecology and Infertility.* 2022; 25(9):40-50.

- ✱ Razmi M, Mehdipour tavana M, **Ahmadi MH**, Saeedzarandi M, Kazerooni M, Amirlatifi S, et al. *Long non coding-RNAs as a potential player in pathogenesis of gestational trophoblastic disease*. Galen Medical Journal. Accepted and in press.
- ✱ Naderi M, , Sahar Najafi, **Ahmadi MH**, Ramezani Siakhulak F, Sadeghi-Bojd Y, et al. *Evaluation of Factors influencing the birth of Thalassemia in Family Members with Thalassemia Major in Southeast Iran in 2021*. Journal of Advanced Biomedical Sciences. 2023;13(1): 68-80.
- ✱ **Ahmadi MH**, Sharifi Z, Ghasemi A, Abbasian S. *Occult hepatitis B in Iranian blood donors, an overview of the challenges: A narrative review*. Health Science Reports. 2023 Aug;6(8):e1466.
- ✱ Behrouzian Fard G, **Ahmadi MH**, Gholamin M, Amirfakhrian R, et al. CRISPR-Cas9 technology: As an efficient genome modification tool in the cancer diagnosis and treatment. Biotechnol Bioeng. 2024;121:472–488.
- ✱ **Ahmadi MH**, Maleknia M, Khoshbakht R, Rezaeeyan H. Evaluation of the hematological inflammatory parameters in the patients with immune thrombocytopenic purpura: a case–control study. Health Sci Rep. 2024;e1900.
- ✱ Kavousinia P, **Ahmadi MH**, Sadeghian H, Bafghi MH. Therapeutic potential of CRISPR/CAS9 genome modification in T cell-based immunotherapy of cancer. Cytotherapy. 2024 Feb 23.
- ✱ Safdari H, Bagheri S, Talkhi N, Saberi Teymourian E, Hosseini Bafghi M, **Ahmadi MH**. Cq values as an indicator for COVID-19 outcomes: A study of the correlation between laboratory parameters. Immunity, Inflammation and Disease. 2024 Jun;12(6):e1326.
- ✱ Bagheri S, Hajiabadi F, Vahabzadeh R, **Ahmadi MH**. Investigating the impact of mitochondrial DNA: Insights into blood transfusion reactions and mitigation strategies. Vox sanguine. 2025.
- ✱ Fard GB, **Ahmadi MH**, Gholamin M, Bafghi MH. CRISPR-Cas9: A Prominent Genome Editing Tool in the Management of Inherited Blood Disorders and Hematological Malignancies. Current Research in Translational Medicine. 2025 Jul 27:103531.
- ✱ Hejazi S, Gholampour Kargar A, Ravanshad S, Ziaee A, Emadzadeh M, Kabiri M, Khoshbakht R, **Ahmadi MH**, et al. Impact of COVID-19 on mucormycosis presentation and laboratory values: A comparative analysis. PLoS One. 2025 May 2;20(5):e0321897.

### ***Books:***

- ✱ Translation to Farsi: ***Blood donor counselling: implementation guidelines***. World Health Organization 2014.

- ✧ Translation to Farsi: *Basic & Applied Concepts of Blood Banking and Transfusion Practices, Fourth Edition*. Elsevier Inc. 2017.
- ✧ *Essentials in Immunohematology Laboratory (Blood Bank)*, First edition. Idehnovin pub. 2021.
- ✧ *A Case Study of Hematological Diseases Associated With Myeloid Neoplasms*. First edition. Mashhad University of Medical Sciences. 2022.
- ✧ *A Case Study of Hematological Diseases Associated with Lymphoid Neoplasms from a Laboratory Perspective*. First edition. Mashhad University of Medical Sciences. 2022.
- ✧ *Principles of Basic Tests in Hematology Laboratory*. First edition. Idehnovin pub. 2022.
- ✧ *An introduction to different types of light and electron microscopes*. First edition. Mashhad University of Medical Sciences. 2022.
- ✧ *Algorithm of blood group systems*. First edition. Mashhad University of Medical Sciences. 2023.
- ✧ *Algorithm of Red blood cell disorders*. First edition. Mashhad University of Medical Sciences. 2024.
- ✧ *A case study of hemostatic and thrombotic diseases*. First edition. Mashhad University of Medical Sciences. 2025.

### Congress presentation:

- ✧ **Ahmadi MH**, Amirizadeh N, Azarkeivan A, Valikhani A, Sayyadipoor F, Navidrouyan Mo, Navidrouyan Ma. *Fetal RhD Genotyping in Plasma of Rh Negative Pregnant Women by Real-Time PCR*. 25<sup>th</sup> Regional Congress of the International Society of Blood Transfusion. London, United Kingdom, June & July 2015 (Poster).
- ✧ **Ahmadi MH**, Sayyadi M, Yaghoobi R. *Noninvasive RHD genotyping by RhD negative maternal plasma*. 7<sup>th</sup> International Congress of Laboratory and Clinic. Tehran, Iran, February 2015 (Poster).
- ✧ **Ahmadi MH**, Amirizadeh N: *Non-invasive determination of fetal RHD genotyping using RhD negative maternal plasma: A review*. International congress on blood; disease and clinical administration, Yasooj, Iran, May 2015 (Oral).
- ✧ Ramezani F, **Ahmadi MH**. *Non-invasive determination of fetal platelet antigen's genotype using cell-free fetal DNA (cffDNA)*. 5<sup>th</sup> National & 1<sup>st</sup> International Congress on Novel & Innovative Laboratory Technologies, Tehran, Iran, October 2017 (Poster).

- ✱ **Ahmadi MH**, Amirizadeh N. *Evaluation the SRY to Confirm the Presence of Fetal DNA in the Fetal RHD Genotyping Using cffDNA*. 35<sup>th</sup> International Congress of the International Society of Blood Transfusion. Toronto, Canada, June 2018 (Poster).
- ✱ **Ahmadi MH**, Pourfathollah A, Rabiee M, Amirizadeh N. *Noninvasive Prenatal Determination of Fetal RHD Status Using Cell-Free Fetal Dna In Plasma of RhD Negative Pregnant Women*. 36<sup>th</sup> International Congress of the International Society of Blood Transfusion. Virtual Congress, December 2020 (Poster).
- ✱ **Ahmadi MH**, Rezaeeyan H, Maleknia M, Javan MR, Abdolalian M, et al. *Evaluation of Inflammatory Indices in Gestational Diabetes Mellitus of Pregnant Women*. 13th International Congress of Medical Laboratory and Clinic, February 2022 (Poster).
- ✱ **Ahmadi MH**, Amirizadeh N, Pourfathollah A. *Confirmation of the presence of fetal DNA in noninvasive genotyping of fetal blood groups*. 37th International Congress of the International Society of Blood Transfusion. Virtual Congress, June 2022 (Poster).
- ✱ **Ahmadi MH**, Hosseini M. *Enhancing the antifungal effect of biosynthesized selenium nanoparticles using Aspergillus fumigatus*. 2nd Global Conference on Advanced Nanotechnology & Nanomaterials, June 2022 (Poster).
- ✱ **Ahmadi MH**, Maleknia M, Khoshbakht R, Rezaeeyan H. *Evaluation of the Predictive Value of Neutrophil to Lymphocyte and Platelet to Lymphocyte Ratio in Predicting Immune Thrombocytopenic Purpura (ITP)*. 1<sup>st</sup> international congress of biomarkers, February 2023 (Poster).
- ✱ Vahabzadeh R, Bagheri S, **Ahmadi MH**. *Free mitochondrial DNA DAMPs in blood products associated with adverse transfusion reactions*. The 2<sup>nd</sup> International Laboratory Diagnostics Congress, February 2023 (Oral).
- ✱ Hajiabadi F, Bagheri S, **Ahmadi MH**. *Evaluation of mitochondrial DNA level among different blood products*. The 2<sup>nd</sup> International Laboratory Diagnostics Congress, February 2023 (Oral).
- ✱ Sohrabian S, Badeleh F, **Ahmadi MH**. *Investigation of Hematological and Coagulation Indices in Patients with Pulmonary Thromboembolism*. The 2<sup>nd</sup> International Laboratory Diagnostics Congress, February 2023 (Poster).
- ✱ Izadi S, Karimi MA, **Ahmadi MH**. *Evaluating of Hematologic Inflammatory Markers in Multiple Myeloma: A Narrative Review*. The 1<sup>st</sup> laboratory science student congress of Shahid Beheshti University of Medical Sciences, December 2022 (Poster).
- ✱ Karimi MA, Izadi S, **Ahmadi MH**. *Metformin and Treatment of Acute Myeloid Leukemia: A Narrative Review*. The 1<sup>st</sup> laboratory science student congress of Shahid Beheshti University of Medical Sciences, December 2022 (Poster).

- ✳ **Ahmadi MH**, Sadeghi-Bojd Y, Amirizadeh N, Oodi A. *Genotyping of weak D phenotype among blood donors in Southeast Iran*. 33<sup>rd</sup> Regional International Society of Blood Transfusion Congress in Gothenburg, Sweden, June 2023 (Poster).
- ✳ Oraei Sajjadi K, Bagheri S, Arianmanesh F, **Ahmadi MH**. *Application of two nanoparticles, TAT-PEG-CCMD and BSA/POL407, in the treatment of acute lymphoblastic leukemia (ALL)*. 15<sup>th</sup> International Congress of Laboratory and Clinic. Tehran, Iran, December 2023 (Minioral).
- ✳ Arianmanesh F, Bagheri S, Oraei Sajjadi K, **Ahmadi MH**. *Non-Invasive Diagnosis of Acute Lymphoblastic Leukemia Using Cell-Free DNA*. 15<sup>th</sup> International Congress of Laboratory and Clinic. Tehran, Iran, December 2023 (Minioral).
- ✳ Ramezani M, Eshaghi S, **Ahmadi MH**. *Non-Invasive Monitoring of Multiple Myeloma based on Using Plasma Cell-Free DNA*. The 3<sup>rd</sup> International Laboratory Diagnostics Congress, February 2024 (Oral).
- ✳ Eshaghi S, Ramezani M, **Ahmadi MH**. *SiRNA Delivery using Lipid-Polymer Nanoparticles to Target Cyclophilin A for the Treatment of Multiple Myeloma*. The 3<sup>rd</sup> International Laboratory Diagnostics Congress, February 2024 (Oral).
- ✳ Khakshour F, **Ahmadi MH**. *The Role of Cell-Free DNA in the Detection and Monitoring of Treatment in Hodgkin Lymphoma Patients*. The 15<sup>th</sup> International & 21<sup>st</sup> National Congress on Quality Improvement in Clinical Laboratories, April 2024 (Poster).
- ✳ Arianmanesh F, Oraei Sajjadi K, **Ahmadi MH**. *Non-Invasive Diagnosis of Acute Myeloid Leukemia Using Cell-Free DNA*. The 15<sup>th</sup> International & 21<sup>st</sup> National Congress on Quality Improvement in Clinical Laboratories, April 2024 (Poster).
- ✳ Kahangi F, **Ahmadi MH**. *Non-invasive prenatal diagnosis of thalassemia*. The 15<sup>th</sup> International & 21<sup>st</sup> National Congress on Quality Improvement in Clinical Laboratories, April 2024 (Poster).
- ✳ Shadian Zarsabzevar M, **Ahmadi MH**. *Application of clustered regularly interspaced short palindromic repeats (CRISPR)-Cas9 for treatment of Glioma*. 16<sup>th</sup> international congress of medical lab. and clinic, Tehran, Iran, December 2024 (Poster).
- ✳ Akhtar R, Miri A, **Ahmadi MH**, Sadeghi Bojd Y. *Inflammatory factors Predicting Acute Appendicitis in pediatric patients*. 16<sup>th</sup> international congress of medical lab. and clinic, Tehran, Iran, December 2024 (Poster).
- ✳ Azimi S, **Ahmadi MH**. *Treatment of the sickle cell anemia (SCD) using clustered regularly interspaced short palindromic repeats (CRISPR) cas-9 technology: A review*.

16<sup>th</sup> international congress of medical lab. and clinic, Tehran, Iran, December 2024 (Poster).

✱ Mobaraki Y, Behroozian Fard G, **Ahmadi MH**. *Treatment of the Hemophilia B using CRISPR-Cas9 technology: A review*. 16<sup>th</sup> international congress of medical lab. and clinic, Tehran, Iran, December 2024 (Poster).

✱ Amini S, **Ahmadi MH**. *CRISPR-Cas9 Gene Therapy: Revolutionizing Treatment for Hemophilia A*. 16<sup>th</sup> international congress of medical lab. and clinic, Tehran, Iran, December 2024 (Poster).

### Research projects:

Row	Title	Role	Status	Thesis
1	Investigation of the frequency of consumption of various blood products in hospitalized newborns in Ghaem Hospital in Mashhad in 2024	Executive	The Performance	No
2	CRISPR-Cas9: A Prominent Genome Editing Tool in the Management of Inherited Blood Disorders and Hematological Malignancies	Executive	The Performance	No
3	Evaluation of Tumor Necrosis Factor $\alpha$ induced protein 2 (TNFAIP2) gene expression in patients with Acute Lymphoblastic Leukemia versus healthy control group	Executive	The Performance	Yes
4	Evaluation of Bmal1 (a circadian clock gene) and Wee1 (a clock-controlled cell cycle gene) expression in patients with acute myeloid leukemia (AML) versus healthy control group	Executive	The Performance	Yes
5	Evaluation of hematological indexes of platelet to lymphocyte and neutrophil to lymphocyte ratio in multiple sclerosis (MS) disease compared to normal values.	Executive	The Performance	Yes
6	Evaluation of hematological inflammatory indices of neutrophil-to-lymphocyte ratio (NLR), platelet-to-lymphocyte ratio (PLR) and monocyte-to-lymphocyte ratio (MLR) in patients with acute appendicitis in comparison with normal values	Executive	The Performance	No

7	Evaluation of hematological inflammatory parameters in patients with kidney stones and gallstones in comparison with normal values	Executive	The Performance	No
8	Design and evaluation of mobile-based educational e-book of Immunohematology tests	Executive	The Performance	Yes
9	Evaluation of the amount of cross-matched and injected blood and blood products in the hospitals covered by Mashhad University of Medical Sciences in 2022	Executive	The Performance	Yes
10	Evaluation of genes expression of sphingolipids metabolism pathway (Sphingosine kinase1 and Acid ceramidase) in patients with acute myeloid leukemia versus healthy control group	Executive	The Performance	Yes
11	Evaluation of exposure to formaldehyde and its relationship with blood parameters in personnel of pathology laboratories of teaching hospitals of Mashhad University of Medical Sciences.	Colleague	The Performance	No
12	Evaluation of molecular and non-molecular indicators in patients with hepatitis C	Colleague	The Performance	No
13	Investigating the relationship between the storage time of blood products and rate and type of adverse blood transfusion reactions	Executive	The Performance	No
14	The evaluation protective effect of trehalose against gentamicin-induced nephrotoxicity in C57BL/6 mice	Colleague	Finished	Yes
15	The relationship between molecular and non-molecular laboratory findings of SARS-COV-2 virus infection in patients with Covid-19	Colleague	Finished	No
16	Biosynthesis of silver nanoparticles using <i>Berberis integerrima</i> and Evaluation of its synergistic effect with conventional antibiotics against multidrug-resistant (MDR) <i>Acinetobacter baumannii</i> and <i>Pseudomonas aeruginosa</i>	Colleague	Finished	No
17	Evaluation of anti-leukemic effect of biosynthesized selenium nanoparticles on chronic myeloid leukemia (CML) cell line	Executive	The Performance	Yes



18	Evaluation of hematological and biochemical indices in cardiac patients undergoing surgery by CABG and PCI methods	Executive	The Performance	No
19	Evaluation of hematological and biochemical markers in thrombotic thrombocytopenic purpura (TTP) patients	Executive	The Performance	No
20	Evaluation of GADD45 gene expression as a tumor suppressor in patients with acute myeloid leukemia (AML)	Executive	The Performance	No
21	The assessment of clinical manifestation and glucocorticoid use in hospitalized COVID-19-associated mucormycosis in Ghaem and Emam-Reza hospitals compared to control group	Colleague	The Performance	Yes
22	Evaluation of the diagnostic value of platelet to lymphocyte and neutrophil to lymphocyte ratio indices in the development of Immune thrombocytopenic purpura (ITP)	Executive	Finished	No
23	Evaluation of Rh Blood Group Genotype in Thalassemia Major Patients of SARVAR Hemophilia and Thalassemia Center in Mashhad	Executive	The Performance	No
24	Evaluation of the predictive value of platelet-to-lymphocyte and neutrophil to lymphocyte ratio indices in the incidence of gestational diabetes	Executive	Finished	No
25	Evaluation of the relationship between ABO and Rh blood groups and susceptibility to coronavirus, and predictive value of indices, NLR PLR and MLR with the severity of COVID-19 in Persian cohort, Mashhad	Colleague	The Performance	No
26	Evaluation of antiviral effect of two antimicrobial peptides Nisin and P10 on human herpes simplex viruses 1	Colleague	Finished	Yes

#### Participation in Congress, Conference, Seminar, Symposium, and Workshops:

- ✱ As a participant in the 27<sup>th</sup> Regional Congress of the *International Society of Blood Transfusion*, Copenhagen, Denmark, June 2017.

- ✧ As a participant in one day *Patient Blood Management conference* in Iranian Blood Transfusion Organization, Tehran, Iran, November 2014.
- ✧ As a participant in the *Hemovigilance conference* in Mazandaran medical university, Mazandaran, Iran, December 2014.
- ✧ *Peripheral Blood Smear from normal to leukemia conference* in Avicenna Research Institute of Medical Sciences, Tehran, Iran, January 2015.
- ✧ *The novel practical approaches diagnosis, monitoring, and treatment of hematological malignancies Symposium*, Shahid Beheshti medical university, Tehran, Iran, December 2014.
- ✧ *Next Generation Sequencing workshop* for 8 hours in 7<sup>th</sup> international congress of Laboratory and Clinic, Tehran, Iran, February 2015.
- ✧ *The diagnosis of Hematological malignancies workshop* for 8 hours in Iran medical university, Tehran, Iran, May 2016.
- ✧ *Scientific Writing and Search and Type of Studies workshop* for 24 hours in the 10<sup>th</sup> Neonatal Hematology congress, Tehran, Iran, September 2017.
- ✧ *High Resolution Melting analysis workshop* for 16 hours in Iran Institute Pastor, Tehran, Iran, January 2018.
- ✧ *Real-Time PCR (CYBR Green) workshop* for 8 hours in High Institute for Research and Education in Transfusion Medicine, Tehran, Iran, February 2019.
- ✧ *Application of flow cytometry and cytochemistry in the diagnosis of hematologic malignancies* for 8 hours in High Institute for Research and Education in Transfusion Medicine, Tehran, Iran, February 2019.
- ✧ *Morphology of peripheral blood cells and bone marrow and its reporting principles* for 16 hours in Iran University of Medical Sciences, Tehran, Iran, December 2019.
- ✧ *Systematic review and meta-analysis workshop in medical science research* for 18 hours in Mashhad University of Medical Sciences, Mashhad, Iran, February 2021.

### Teaching in workshops:

- ✧ *Blood Group Genotyping* for 8 hours in Fourth International Congress of Blood Transfusion Medicine, Blood Group Genotyping Central Lab, Iran Blood Transfusion Organization, September 2018.

### **Reviewer for academic journals:**

- ✧ Journal of Pediatric Hematology and Oncology
- ✧ Transfusion and Apheresis Science
- ✧ Advanced Biomedical Research
- ✧ Jundishapur Journal of Chronic Disease Care
- ✧ The Iranian Journal of Obstetrics, Gynecology and Infertility
- ✧ Journal of Advanced Biomedical Sciences

### **Works and Teaching Experiences:**

- ✧ As a laboratory technician at Shohada Hospital in Behshahr, from August 2012 to May 2014.
- ✧ Working with laboratory animals at the Pasteur Institute of Iran.
- ✧ University lecturer from January 2015 to February 2019 in Azad University, Babol medical branch, Mazandaran, Iran.
- ✧ University lecturer from September 2017 to June 2020 in Azad University, Sari medical branch, Mazandaran, Iran.
- ✧ University assistant professor from October 2020 until now in Mashhad University of Medical Sciences, Razavi Khorasan, Iran.

### **Technical skills competencies:**

- ✧ Fulfill routine and specific Laboratory Hematology and Blood Bank tests
- ✧ DNA & RNA extraction and purification
- ✧ PCR and Real-Time PCR technique
- ✧ Gel electrophoresis
- ✧ Cell Culture & Sub culture, Stem Cell Culture, Stem Cell Freezing & De freezing
- ✧ ELISA (Enzyme-Linked Immunosorbent Assay)
- ✧ ICDL (International Computer Driving License) and good familiarity with required software such as SPSS, MedCalc, EndNote, Chromas, Oligo
- ✧ Ability in working with computer and search engines

### **Membership of professional societies:**

- ✧ Iranian Blood Transfusion Association (IBTA)
- ✧ International Society of Blood Transfusion (ISBT)
- ✧ European Hematology Association (EHA)
- ✧ American Society Hematology (ASH)

## Honors and awards:

### 1. Academic:

- ✧ Achieving first place among Laboratory Science associate graduates (2009).
- ✧ Achieving second place among Ph.D. graduates in Laboratory Hematology and Blood Transfusion Sciences (2020).
- ✧ The selected educational professor of Mashhad University of Medical Sciences in the 17<sup>th</sup> educational festival of Shahid Motahari (2024)

### 2. National cultural competitions:

- ✧ The Third person in the field of *Azan* in the 29<sup>th</sup> Quran and Etrat Festival of the Ministry of Health, Treatment and Medical Education across the country, Zanjan University of Medical Sciences (2025).
- ✧ The first person in the field of *Tawasheeh* in the 29<sup>th</sup> Quran and Etrat Festival of the Ministry of Health, Treatment and Medical Education across the country, Shahid Beheshti University of Medical Sciences (2025).
- ✧ The *first person* in the field of *Prayer Reading (Monajat Khani)* in the 28<sup>th</sup> Quran and Etrat Festival of the Ministry of Health, Treatment and Medical Education across the country, Shahid Beheshti University of Medical Sciences (2024).
- ✧ The *second person* in the field of *Tartil (Quran)* in the 27<sup>th</sup> Quran and Etrat Festival of the Ministry of Health, Treatment and Medical Education across the country, Tehran University of Medical Sciences (2023).
- ✧ The *second person* in the field of *Tartil (Quran)* in the 26<sup>th</sup> Quran and Etrat Festival of the Ministry of Health, Treatment and Medical Education across the country, Tehran University of Medical Sciences (2022).
- ✧ The *first person* in the field of *Prayer Reading (Monajat Khani)* in the 25<sup>th</sup> Quran and Etrat Festival of the Ministry of Health, Treatment and Medical Education across the country, Shahid Beheshti University of Medical Sciences (2021).
- ✧ The *first person* in the field of *Prayer Reading (Monajat Khani)* in the 3<sup>rd</sup> national cultural festival of students of medical universities across the country, Golestan University of Medical Sciences (2011).
- ✧ The *third person* in the field of *Quran (Tartil)* in the 14<sup>th</sup> Quranic festival for students of medical universities across the country, Mazandaran University of Medical Sciences (2009).
- ✧ The *fourth person* in the field of *Prayer Reading (Monajat Khani)* in the 1<sup>st</sup> cultural festival of students of medical universities across the country, Isfahan University of Medical Sciences (2009).
- ✧ The *fourth person* in the field of *Quran (Tartil)* in the 13<sup>th</sup> Quranic festival for students of medical universities across the country, Mazandaran University of Medical Sciences (2006).

## References:

✧ **Dr. Aliakbar Pourfathollah**

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