

## Personal Information: Dr. Ali Maleki

**Address:** Medical Biology Research Center, Kermanshah University of Medical Sciences, Kermanshah, Iran. Telefax: +98-833-427-6471

**Birth date:** 24/08/1973

**Marital status:** Married

**Cell Phone:** +989188364492

**Languages:** Kurdish (Native), Persian and English



**Email Addresses:** [a.maleki@kums.ac.ir](mailto:a.maleki@kums.ac.ir)

[maleki.hem@gmail.com](mailto:maleki.hem@gmail.com)

**LinkedIn Profile:**

<https://www.linkedin.com/in/ali-maleki-33080754>

## Education

Sep 2021 – Sep 2023	<b>Fellowship</b> in Clinical Laboratory Sciences, Iran University of Medical sciences
Feb 2011 – Feb 2018	<b>Ph.D.</b> in Laboratory Hematology and Blood Banking, Tehran University of Medical sciences
Sep 2001 – Sep 2003	<b>M.Sc.</b> Laboratory Hematology and Blood Banking, Tarbiat Modares University
Sep 1997 – Sep 1999	<b>B.Sc.</b> Medical Technology, Iran University of Medical sciences

## Research Experience

- Working with different cell lines e.g. Hybridoma cells, HL-60, K-562 and etc.
- Extraction, purification and application of monoclonal antibodies from Hybridoma and mouse ascites.
- 3 years of experience working in Protein electrophoresis, Western Blot, Molecular Technique including PCR, RT-PCR, Real time PCR, Methylation specific PCR (MSP), ... )

## Honors & Awards

- 2021 Seventh rank among participants of Fellowship Exam (for Clinical Laboratory Sciences), **Iran.**
- 2017 Grant winner of National Hakim Jorjani Festival (Third Place), **Iran.**
- 2014 First rank among Researchers in Social Security Organization, **Iran.**
- 2013 First rank among Researchers in Social Security Organization, **Iran.**
- 2011 First rank among participants of National PhD Exam (for Laboratory Hematology), **Iran.**
- 2003 First rank among graduates of Hematology (M.Sc.) in Tarbiat Modares University, Tehran, **Iran.**
- 2001 Fifth rank among participants of National M.Sc. Exam (for Laboratory Hematology), **Iran.**

## Courses, workshops & Internships

- 2018 Interpretation of Graphical data's from Automated Hematologic Analyzers, 11<sup>th</sup> International Congress on Improving the Quality in Clinical Laboratory, Tehran, **Iran.**
- 2016 Diagnosis of Hematologic malignancies, from Blood Film to Flow cytometry, Iran University of Medical Sciences, Tehran, **Iran.**

- 2016 Cancer Stem Cells Laboratory Techniques, 7<sup>th</sup> International Congress of Laboratory and Clinic, Tehran, **Iran.**
- 2014 Primer Design, Kermanshah University of Medical Sciences, Kermanshah, **Iran.**
- 2011 FISH Technique in Shariati Hospital, Tehran University of Medical Sciences, Tehran **Iran.**
- 2009 Cell Culture Techniques, Kermanshah University of Medical Sciences, Kermanshah, **Iran.**
- 2009 Quality Assurance in Hematology, Hamedan University of Medical Sciences, Hamedan, **Iran.**
- 2009 Protein Electrophoresis, 2<sup>nd</sup> International Congress on Improving the Quality in Clinical Laboratory, Tehran, **Iran.**
- 2007 Accreditation and Quality Assurance in Med Lab, Iran University of Medical Sciences, Tehran, **Iran.**
- 2007 Flow Cytometry, Iran University of Medical Sciences, Tehran, **Iran.**
- 2007 Interpretation of Peripheral Blood Smear, Iran University of Medical Sciences, Tehran, **Iran.**
- 2005 Quality Assurance in Hematology Laboratory, Iran University of Medical Sciences, Tehran, **Iran.**
- 2002 Blood Film and Bone Marrow Cytology, Tehran University of Medical Sciences, Tehran **Iran.**
- 2002 Bone Marrow Transplantation, Tehran University of Medical Sciences, Tehran **Iran.**
- 2001 Bone Marrow Hematopoietic Cells Culture, Tehran University of Medical Sciences, Tehran **Iran.**

## Scientific – Executive Records

Member of editorial staff of scientific and research monthly magazine Physician and Laboratory.  
 Editor of scientific and research monthly magazine Message of Laboratory.

## Supervision/Teaching/ Management

Technical Assistant (Physician) of Novin Medical Laboratory (Kermanshah)  
 Supervisor of Mehregan Clinical Laboratory (Kermanshah)  
 Supervisor of Clinical Laboratory in Zagros Hospital (Kermanshah)  
 Supervisor and Consultant of 6 students for Doctorate Thesis.  
 Teaching in Hematology, Blood Banking, Quality Control, Automated Hematology (10 semester)

## Experimental techniques

### Molecular Techniques:

- 1) DNA & RNA extraction
- 2) Primer Design
- 3) RT-PCR & q-PCR
- 4) MSP

### *In vitro* & *In vivo* Techniques:

- 1) Primary cell culture
- 2) Cell line & Stem cell culture
- 3) Angiogenesis assay
- 4) Immunocytochemistry

### Protein assay Techniques:

- 1) Extraction and purification
- 2) Electrophoresis
- 3) Western blotting

## Publications

### Oral presentation:

- 23 Oral presentations at national and international conferences and seminars

### Poster presentation:

- 70 Poster presentations at national and international conferences and seminars

### Books:

- **Basic principles and error sources in hematology analyzers.** Book published by Andisheh Rafi press,

Tehran, 2005.

- **Quality control in hematology laboratory**". Book published by Andisheh Rafi press, Tehran, 2009.
- **Interpretation of Automated Hematological Parameters**". To be published by Andisheh Rafi press.
- Translation of "**Henry's clinical diagnosis and management by laboratory methods**" book (Hematology and Transfusion Medicine chapters) (22<sup>nd</sup>, 23<sup>nd</sup>, 24<sup>nd</sup> edition), Andisheh Rafi Press, Tehran, (2011, 2017, 2022).
- Translation of "**Hoffbrand's essential haematology**" book. (6<sup>nd</sup>, 7<sup>nd</sup>, 8<sup>nd</sup> edition), Andisheh Rafi Press, Tehran, (2011, 2016, 2020).
- Translation of "**Basic & Applied Concepts of Blood Banking and Transfusion Practices**" book. (1<sup>st</sup>, 3<sup>rd</sup>, 4<sup>th</sup> edition), Andisheh Rafi Press, Tehran, (2011, 2016, 2020).
- Translation of "**Henry's clinical diagnosis and management by laboratory methods**" book (Cancer clinical pathology chapters) (24<sup>nd</sup> edition), Andisheh Rafi Press, Tehran, (2022).

### Others:

- Peer reviewer in several journals (e.g. Pharmaceutical Biology journal and Plos One.)

### Articles:

1. Reza Meshkani, Mohammad Taghikhani, Abbas Mosapour, Bagher Larijani, Shohreh Khatami, Ehteram Khoshbin, Davood Ahmadvand, Parinaz Saeidi, Ali Maleki, Kamal Yavari, Nikoo Nasoohi and Khosrow Adeli. **The 1484insG Polymorphism of the PTPN1 Gene Is Associated with insulin Resistance Iranian Population**, Archives of Medical Research, 20, 45-51, 2007.
2. Kamran Mansouri, Ali mostafaei, Manouchehr Mirshahi, Hamidreza Mohammadi Motlagh, Ali Maleki and Maryam Keshavarz. **Human Coagulated Plasma as Natural and Low Cost Matrix for in vitro Angiogenesis**. Iranian Biomedical Journal 13(3): 179-183 (July 2009).
3. Mehrdad Payandeh, Mehrnoush Aeinfar, Ali Maleki, Mohammaderfan Zare. **Cardiac Valve Granulocytic Sarcoma Infiltration as an Complicating Acute Myelogenous Leukemia: a Case Report**. International Journal of Hematology Oncology and Stem Cell Research (IJHOSCR), 6 (1), 36-38, 2012.
4. Mehrdad Payandeh, Mehrnoush Aeinfar, Ali Maleki, Mohammaderfan Zare. **By what way Physician can Enhance Outcomes in Patients with Metastatic Malignant Melanoma**. International Journal of Hematology Oncology and Stem Cell Research (IJHOSCR), 6 (1), 36-38, 2012.
5. Kamran Mansouri, Manouchehr Mirshahi, Ali Akbar Pourfatlah, Zuhair Mohammad Hassan, Ali Maleki. **Investigating the effect of anti-plasminogen monoclonal antibody in angiogenesis** Physiology and Pharmacology scientific-research journal, volume 9, number 1, spring and summer 2014.
6. Ali Maleki, Manouchehr Mirshahi, Ali Akbar Pourfatlah, Kamran Mansouri. **Monoclonal antibodies against human plasminogen MC2B8 and A2C8 inhibit the activity of the fibrinolysis system**. Physiology and Pharmacology Research Journal, Volume 9, Number 2, Fall and Winter 2014.
7. Ali Maleki, Manouchehr Mirshahi, Ali Akbar Pourfatlah. **Investigation of the effect of monoclonal antibodies A5E10, A4D10 and A3B2 on the activity of the fibrinolysis system**. Scientific Journal - Blood Research, Volume 3, Number 1, Spring 2015.

8. Ali Melki, Kamran Mansouri, Manouchehr Mirshahi, Ali Akbar Pourfatlah, Mohammad Akrami. **The potential of monoclonal antiplasminogen antibody in manipulation of fibrinolysis and angiogenesis systems.** Journal of Faculty of Medicine, Tehran University of Medical Sciences, Volume 67, Number 1, April 2018, 33-41.
9. Ali Maleki. **Development of light and electronics, pioneer of hematology.** specialized journal of medical engineering, number 70, year 6, 2015.
10. Ali Maleki. **Application of modern biomedical sciences in hematology equipments.** Journal of laboratory diagnosis, number 48, year 9, 2015.
11. Ali Maleki. **Flaging systems in hematology analyzers, capabilities, limitations.** Journal of laboratory diagnosis, number 49, 10th year, 2016.
12. Ali Maleki. **Machine classification of blood cells.** Journal of Medical Engineering, No. 73, Year 7, 2016.
13. Ali Maleki. **Types of hematology analyzers and microscopes.** Journal of Medical Engineering, No. 74, Year 8, 2016.
14. Ali Maleki. **Examining and interpreting the results of hematology analyzers.** Medicine and laboratory scientific-research journal, number 25, 1386.
15. Ali Maleki, Farhad Zakir. **The importance of flow cytometry in the diagnosis of blood diseases.** Medicine and Laboratory Journal, No. 26, 1385.
16. Ali Maleki. **Capabilities and limitations of cell controls in the calibration of hematology analyzers.** Medicine and Laboratory Journal, No. 27, 1386.
17. Ali Maleki. **Automation in hematology laboratory, importance and necessity.** Medicine and laboratory scientific-research journal, number 28, 2016.
18. Ali Maleki. **When the graphs speak.** Journal of laboratory diagnosis, number 53, 10th year, 2016.
19. Ali Maleki, Saeed Kaviani. **Diagnosing and following up sources of error in automated platelet counting (cases of false increase).** Medicine and Laboratory Scientific-Research Journal, No. 34, 2017.
20. Ali Maleki, Saeed Kaviani. **Diagnosing and following up sources of error in automated platelet counting (cases of false reduction).** Medicine and laboratory scientific-research journal, number 35, 2017.
21. Ali Maleki, Saeed Kaviani. **A new approach to the extent of peripheral blood and its importance in differential diagnoses (first part).** Journal of Laboratory Diagnosis, No. 60, 2018.
22. Ali Maliki, Saeed Kaviani. **A new approach to the extent of peripheral blood and its importance in differential diagnoses (second part).** Journal of Laboratory Diagnosis, No. 61, 2018.
23. Ali Maleki, Reza Meshkani. **Nanobiotechnology and artificial blood.** Medicine and Laboratory Journal, No. 34, 2017.
24. Ali Maleki. **False thrombocytopenia (importance and methods for diagnosis and correction).** Journal of Social Security Medicine, No. 44, 2017.
25. Ali Maleki. **An efficient solution in hematology quality control (Westgard rules related to three levels of control).** Medicine and Laboratory Journal, No. 35, 2018.
26. Ali Maleki. **Methods of monitoring the performance of hematology analyzers using control blood.** Medicine and Laboratory Journal, No. 38, 2018.
27. Ali Maleki. **Practical points in the differential diagnosis of anemias based on the extent of peripheral blood.** Journal of Medicine and Laboratory, No. 39, 2018.
28. Ali Maleki, Shahin Ebrahimian, Anita Ranjbar, Ali Mikayili. **Investigation of blood culture of newborns suspected of septicemia in Hazrat Masoumeh (S) Hospital, Kermanshah.** Scientific-research journal of laboratory sciences, third volume, number 2, 2018, Golestan University of Medical Sciences.
29. Shahin Ebrahimian, Ali Maleki. **An attitude on staining in the mycology laboratory.** Journal of Social Security Medicine, No. 49, 2018.
30. Ali Maleki, Kamran Mansouri, Shahin Ebrahimian. **A look at the evolution of automation in the hematology laboratory.** Journal of Social Security Medicine, No. 50, 2018.

31. **Ali Malki. The application of flow cytometry in the study of platelet function.** Journal of Laboratory Diagnosis, No. 63, 2018.
32. Shahin Ebrahimian, Ali Mikaili, Farideh Zaini, Sasan Rezaei, Shahla Safari, Ali Melki. **Comparison of Maltofer drug effects on colony growth of some dermatophytes.** Scientific research journal of Ilam University of Medical Sciences, number 2, summer 2019.
33. Maleki A, Kaviani S, Noruzinia M, Farshdusti-Hagh M, Kaviani Z. **Epigenetic mechanisms in the initiation of hematological malignancies.** Zahedan Journal of Research in Medical Sciences. 2011 Oct 31;13(5).
34. Ali Maleki, Mohammad Shahjahani. **Tests to check the function of platelets (part 1).** Scientific-research medicine and laboratory. Number 49, 1390.
35. Ali Maleki, Mohammad Shahjahani. **Platelet function tests (part 2).** Scientific-research medicine and laboratory. Number 50, 1390.
36. Ali Maliki, Kamran Mansouri. **The potential of clinical use of reticulocytes and their new parameters in hematological diseases of children.** Journal of Children's Diseases 2016.
37. Kamran Mansouri, Ali Maleki. **Determining the reference values of hematological parameters in infants and children of Kermanshah.** Journal of Children's Diseases, 2016.
38. Ali Maleki. **Application of digital imaging in hematology.** medicine and laboratory journal. Numbers 61-60, 2013.
39. Ali Maleki. **Diagnosis of cryoglobulin based on peripheral blood.** The voice of Laboratory Journal, 2nd year, 11th issue - Azar, 91.
40. Ali Maleki. **A look at the applications of flow cytometry in blood transfusion medicine.** Laboratory message Journal, 2013.
41. Ali Maleki. False biochemical tests caused by paraproteinemic blood diseases. Laboratory message Journal, 2013.
42. Ali Maleki. Tracking false biochemical responses in malignant and non-malignant hematological disorders. Laboratory message Journal, 2013.
43. Maleki A, Payandeh M, Nadali F. **Interpretation of erythrocyte histograms obtained from automated hematology analyzers in hematologic diseases.** Tehran University of Medical Sciences Journal. 2015 Dec 10;73(9):674-9.
44. Maleki A. **False increase in automatic platelet count: case report and review of literatures.** Laboratory message Journal, 2014.
45. Maleki A. **Diagnostic approach to blood diseases; A look at the importance of history (1).** Payam Laboratory message Journal, No. 87-86, April 2016.
46. Maleki A. **Diagnostic approach to blood diseases; A look at the importance of physical examination (2).** Laboratory message Journal, No. 89-88, July 2015.
47. Maleki A. **Quality control programs in the laboratory.** Laboratory message Journal, No. 86-89, April and May 2015.
48. Maleki A. **The pre-test stage (pre-analytical) in the laboratory - physiological factors (section 2).** Laboratory message Journal, No. 89-88, June and July 2015.
49. Maleki A. **The effects of the pre-test stage on laboratory responses (section 3).** Laboratory message Journal, No. 90-91, August and September 2015.
50. Maleki A. **The effects of the pre-experiment stage on laboratory responses (section 4).** Laboratory message Journal, No. 92, October and November 2015.
51. Maleki A. **The effects of the pre-test stage on laboratory responses (Section 5).** Laboratory message Journal, No. 93, December 2015.

52. Rostami S, Nadali F, Alibakhshi R, Zaker F, Nasiri N, Payandeh M, Chahardouli B, Maleki A. **Aberrant methylation of APAF-1 gene in acute myeloid leukemia patients.** International journal of hematology-oncology and stem cell research. 2017 Jul 1;11(3):225.
53. Zaker F, Nasiri N, Amirzadeh N, Razavi SM, Yaghmaie M, Teimoori-Toolabi L, Maleki A, Bakhshayesh M. **Aberrant methylation-mediated suppression of APAF1 in myelodysplastic syndrome.** International Journal of Hematology-Oncology and Stem Cell Research. 2017 Apr 4;11(2):114.
- 54- Maleki A. **Medical conditions affecting laboratory results.** Laboratory message Journal, No. 96, March 2015.
- 55- Maleki A. **Preanalytic: variables related to fasting, exercise, etc.** Laboratory message Journal, No. 97, May 2016.
- 56- The pre-analytical stage in the laboratory (part eight). Laboratory message Journal, No. 98, July 2016.
- 57- Maleki A. **Pre-analytical stage in medical laboratories (9th section).** Laboratory message Journal, No. 99, July 2016.
- 58- Maleki A. **Pre-analytical stage in medical laboratories: variables related to blood sampling from a vein.** Laboratory message Journal, No. 102, September 2016.
- 59- Maleki A. **Pre-analytical phase in medical laboratories (part 11): variables related to blood sampling from a vein (part 2).** Laboratory message Journal, No. 106, December and February 2016.
- 60- Maleki A. **Pre-analytical phase in medical laboratories (part 12): variables related to capillary and arterial blood sampling.** Laboratory message Journal, No. 108, March and April 2017.
- 61- Maleki A. **Pre-analytical phase in medical laboratories (part 13): blood sampling tools.** Laboratory message Journal, No. 108, March and April 2017.
62. Mostafa Zoorpaikar, Reza Khalili Dizaji, Ali Maleki, Mohsen Zhaleh, Sajjad Babaei, Nasrollah Sohrabi. **The Prevalence of Cytomegalovirus, Hepatitis B, Hepatitis C and HIV Infections among Hemophilic Patients in Sanandaj in 2017.** Apr-Jun 2018 supplementary issue of **Asian Journal of Pharmaceutics (AJP)**.
63. Mostafa Zoorpaikar, Reza Khalili Dizaji, Ali Maleki, Mohsen Zhaleh, Sajjad Babaei, Nasrollah Sohrabi. **The Study of Mnsod Val16Ala Genotypes and Its Association with Helicobacter Pylori in Peptic Ulcer Patients in Kermanshah City, West of Iran.** Apr-Jun 2018 supplementary issue of **Asian Journal of Pharmaceutics (AJP)**.
64. Maleki A, Sayyadipour F, Ahmadi H, Soleimani M, Saba F. **The Statue of Cytokines Therapy in Blood Transfusion Running Cytokine and Blood Transfusion.** Cell and Tissue Biology. 2019 Nov;13(6):407-17.
65. Hoseinkhani Z, Rastegari-Pouyani M, Oubari F, Mozafari H, Rahimzadeh AB, Maleki A, Amini S, Mansouri K. **Contribution and prognostic value of TSGA10 gene expression in patients with acute myeloid leukemia (AML).** Pathology-Research and Practice. 2019 Mar 1;215(3):506-11.
66. Shamohammadi M, Pooyanmehr M, Maleki A, Alimohammadi S. **Evaluation of Protective and Immunomodulatory Effects of Hydroalcoholic Extract of Scrophularia striata on Silver Nanoparticle-Induced Toxicity in Male Rats.** Archives of Advances in Biosciences. 2021;12(1):7-17.
67. Shahmoradi M, Pooyanmehr M, Maleki A, Haghazari L. **Biochemical Modulatory and Protective Effects of the Hydroalcoholic Extract of Scrophularia striata on the Hepatotoxicity of Silver**



**Nanoparticles in the Rat Model.** Iranian Journal of Veterinary Medicine. 2021 Aug 1;15(3):311-24.

68. Shamohammadi M, Pooyanmehr M, Maleki A. **Evaluation of Scrophularia striata Hydroalcoholic Extract's Hematomodulatory Effects: An Approach to Traditional Ethnomedicine.** Journal of Clinical Research in Paramedical Sciences. 2022 Jun 30;11(1).

69. Abyari M, Alimohammadi S, Pooyanmehr M, Ghashghaii A, Maleki A. **Assessment of the Effects of Cyclooxygenase Inhibitors on the Immune Status Following Surgery in Adult Male Rats.** Qom University of Medical Sciences Journal. 2021 Apr 10;15(2):110-9.

70. Maleki A, Noori M, Zomorodi R, Saba F. **Comparison of Duffy Blood Group System Genotype in Kurdish Patients with Beta-Thalassemia Major in Kermanshah City: A Case-Control Study.** Payavard Salamat. 2022 Mar 10;16(5):373-80.

71. Azarhosh M, Ghashghaei A, Pooyanmehr M, Maleki A, Alimohammadi S. **Evaluating Immunomodulatory Effects and Cytokine Changes by Propranolol Following Surgical-Induced Stress in Male Rats.** Iranian Journal of Veterinary Medicine. 2023 Jun 12.

## References

### **Prof. Ali Akbar Pourfathollah**

(Co-Advisor of my M.Sc. Thesis)

Full professor of Immunology, Immunology Dep., School of Medical Sciences, Tarbiat Modarres University, Tehran, IRAN E-mail: [Pourfa@modares.ac.ir](mailto:Pourfa@modares.ac.ir), [www.modares.ac.ir/med/pourfa](http://www.modares.ac.ir/med/pourfa)  
Tel: (+98 21) 88011001 Ext.4507 or 3874 P.O.Box:14115-111

### **Dr. Manocher Mirshahi**

(Advisor of my M.Sc. Thesis)

Asistant Professor of Biochemistry, Biochemistry Dep., School of Basic Sciences, Tarbiat Modarres University, Tehran, IRAN. E-mail: [mirshahi@modares.ac.ir](mailto:mirshahi@modares.ac.ir)  
Tel: (+98 21) 88011001 Ext.3822 or 3826 P.O.Box:14115-111

### **Dr. Saeed Kaviani**

Professor of Laboratory Hematology, Hematology Dep., School of Medical Sciences, Tarbiat Modarres University, Tehran, IRAN E-mail: [kavianis@modares.ac.ir](mailto:kavianis@modares.ac.ir) [www.modares.ac.ir/med/Kavianis](http://www.modares.ac.ir/med/Kavianis)  
Tel: (+98 21) 88011001 Ext.3822 or 3826 P.O.Box:14115-111

### **Prof. Farhad Zaker**

(Co-Advisor of my PhD. Thesis)

Full professor of Laboratory Hematology, Hematology Dep., Faculty of Basic Medical Sciences, Iran University of Medical Sciences, Tehran, IRAN E-mail: [farhadz20@yahoo.co.uk](mailto:farhadz20@yahoo.co.uk)  
Tel: +98 9123762258 P.O.Box:14155-6183 Fax: (+98 21) 88054355

**Prof. Reza Meshkani**

Full professor of Clinical Biochemistry, Biochemistry Dep., Faculty of Basic Medical Sciences, Tehran University of Medical Sciences, Tehran, IRAN E-mail: [rmeshkani@sina.tums.ac.ir](mailto:rmeshkani@sina.tums.ac.ir)

**Tel: +98 9124901096**