

# Curriculum Vitae

## Personal data

Name: Sedigheh Sharifzadeh  
Nationality: Iranian  
Date of birth: 1964/01/19  
Place of birth: Iran – Tehran

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## Educational History

- 2023 Master's in E-learning Planning in Medical Sciences  
Virtual School, Shiraz University of Medical  
Sciences, Shiraz, Iran.
- 2004 PhD in immunology  
Immunology department, Shiraz University of Medical  
Sciences, Shiraz, Iran.
- 1992 Doctorate in clinical laboratory science  
Shiraz University of Medical Sciences, Shiraz, Iran.
- 1986 Laboratory technician  
Shiraz University of Medical Sciences

## Thesis

PhD degree: Establishment and characterization of a cell line from lung large cell carcinoma and determination of target antigens of this line using monoclonal antibody technology, 2004

Doctorate degree: Estimation of iron deficiency anemia among high school girls in Shiraz, 1991

MS degree: Evaluation of the knowledge, attitude, and performance of clinical laboratory science undergraduate students in the practical classes of laboratory science before and during the COVID-19 pandemic,2023

### **Training and workshop**

- 2002      Generation of Recombinant Monoclonal Antibodies in Ecoli  
National research center for genetic engineering and biotechnology and  
institute of research and planning for higher education  
Tehran, Iran
- 2003      Six-month scholarship for completion of PhD degree in Department of  
Oncology, surrey university in Guildford, England
- 2006      work shop on quality assurance and GMP of pharmaceuticals  
Biotechnology workshops by Cinagen Corporation  
2007  
Work shop on cell culture. Biotechnology workshops by Cinagen  
Corporation  
2007

Professional History:

### **Teaching History**

- 1992-1995 School of Paramedical Sciences, Post graduate, Theory and practicum  
(classroom, laboratory), Hematology-red blood cell disorders, about 20  
student
- 1992-1995 School of Paramedical Sciences, Post graduate, Theory and practicum  
(classroom, laboratory), Blood bank, about 20 students
- 1992-2006 School of Paramedical Sciences, under graduate, Theory and Practicum  
(classroom, laboratory), Blood bank, about 30 students
- 1992-2000 School of Paramedical Sciences, under graduate, Theory and Practicum  
(classroom, laboratory), Hematology-red blood cell disorders, about 30  
student

1995 – 2023 School of Paramedical Sciences, graduate, Theory and Practical (classroom, laboratory), Blood bank, about 40 students

1998 – 2023 School of Paramedical Sciences, post graduate, Theory and Practicum (classroom, laboratory) immunohematology, about 6 students

1995 – 2023 School of Paramedical Sciences, graduate, supervisor for seminar presentation,

2002-2023 School of Paramedical Sciences, Theory and Practical (classroom, laboratory) Basic immunology, about 40 students

2009 – 2022 School of Paramedical Sciences, post graduate, Theory (classroom) Advanced immunology, about 6 student

2009 – 2023 School of Paramedical Sciences, post graduate, Theory (classroom) cell culture,

2009-2023 School of Paramedical Sciences, post graduate, Theory (classroom), Immunochemistry

### **Academic Administrative / Executive appointments and services**

1992 Academic staff of Paramedical Sciences Faculty. Shiraz University of Medical sciences.

1992-2000 Head of Clinical laboratory sciences department, Paramedical Sciences Faculty. Shiraz University of Medical Sciences.

1994-2000 Head of Khalili hospital laboratory. ENT educational hospital, Shiraz University of Medical Sciences.

2004 -2011 Assistant professor of School of Paramedical Sciences. Shiraz University of Medical Sciences.

2006-2011 Vice- dean for research affairs. School of Paramedical Sciences Shiraz University of Medical Sciences.

2008 -2011 Head of Clinical laboratory science department in School of Paramedical Sciences

Shiraz University of Medical Sciences

2008 -2011 Head of Diagnostic laboratory science and technology research center Shiraz University of Medical Sciences

- 2011-2014 Vice –dean for education affairs in School of Paramedical Sciences. Shiraz  
University of Medical Sciences
- 2015-2018 Vice-dean for education affairs of post graduate management of Shiraz  
University of Medical Sciences
- 2017 Scientific chairman of second international congress on blood: New  
challenges in diagnosis and therapy
- 2018- Dean of School of Paramedical Sciences

### **Award**

- 2006 Plaque for excellence in teaching, Shiraz University of Medical  
Sciences
- 2013 Selected as active researcher in School of paramedical sciences, Shiraz  
University of Medical Sciences
- 2014 plaque for excellence in teaching, Shiraz University of Medical Sciences
- 2015 plaque for excellence as Doctorate in clinical laboratory Science by 4  
related laboratory association
- 2016 Plaque for excellence in teaching, Shiraz University of Medical  
Sciences

### **Membership in professional associations and societies**

- 1) Iranian society of immunology and allergy, Iran, 2005
- 2) Iranian association of clinical laboratory doctors, Iran, 2000

### **Conference and presentations**

- 1993 Prevalence of Iron deficiency anemia and thalassemia minor  
In adolescent girls in Shiraz.  
Fifth International Geographic Medicine Congress. Shiraz  
University of Medical Sciences
- 1996 Laboratory diagnosis of thalassemia syndromes.  
Thalassemia workshop  
Bushehr University of Medical sciences.
- 1997 Blood group systems.

Hematology seminar for pathologists and laboratory doctors.  
Mazandaran University of Medical Sciences.

1997 Laboratory diagnosis of iron deficiency anemia.  
Hematology seminar for pathologists and laboratory doctors  
Shiraz University of Medical Sciences.

2000 Thalassemia syndromes  
Hematology seminar for pathologists and laboratory doctors  
Shiraz University of Medical Sciences.

2002 Interpretation of serologic tests  
Immunology seminar for pathologists and laboratory doctors  
Shiraz University of Medical Sciences

2006 Determination of a 170 KDa membrane associated molecule on non-small  
carcinoma of the lung.  
8<sup>th</sup> Iranian congress of immunology and allergy  
Tehran University of Medical Sciences & Health Services

2006 A novel lung large cell carcinoma associated antigen detected by  
monoclonal Antibody ( ME1G6 )  
8<sup>th</sup> Iranian congress of immunology and allergy  
Tehran University of Medical Sciences& Health Services

2006 A novel lung large cell carcinoma associated antigen detected by  
monoclonal Antibody (ME1G6)  
16<sup>th</sup> European congress of immunology. Paris

2008 Production, purification and conjugation of murine anti human CD133  
monoclonal antibody.  
29<sup>th</sup> international student conference in biotechnology, 15-17 nov.

2009 Production and characterization of ME 1F1 monoclonal antibody against  
large cell carcinoma with neuroendocrine differentiation.  
23<sup>th</sup> EFI conference 9-12 may 2009.germany

2011 The necessity of revision of laboratory science curriculum  
The 4<sup>th</sup> international and 9 national congress on quality improvement in  
clinical laboratories, April 20-23, 2011 –Tehran-Iran

- 2011 Comparison of assessment system in clinical laboratory sciences internship course  
International conference for academic disciplines. may31-june3, 2011  
Austria
- 2015 prenatal diagnosis by free fetal DNA  
International congress on blood: diseases and clinical administration  
11-14 may 2015 yasuj – Iran
- 2017 New insight in to the laboratory diagnosis of non-immune hereditary red cell membrane disorders.  
Second international congress on blood: New challenges in diagnosis and therapy .3-5 may 2017 Shiraz – Iran
- 2018 Phosflow assessment of PDGFRA phosphorylation state: A guide for tyrosine kinase inhibitor targeted therapy in hypereosinophilia patient International Symposium on Technological Innovations in Laboratory hematology  
may 2018

**Publications:**  
**Book**

- 1995 Golafshan.H .Sharifzadeh .S. Ghahramani.  
Basis and laboratory methods in blood Bank. First edition
- 2001 Golafshan.H.Sharifzadeh.S.Ghahramani.M  
Basis and laboratory methods in blood bank. Second edition
- 2010 Dr varasteh, Sharifzadeh.S et al  
Practical immunology
- 2012 Golafshan.H.Sharifzadeh.S.Ghahramani.M  
Basis and laboratory methods in blood bank. second edition
- 2012 Sharifzadeh S  
Immunology through questions and answers. first edition
- 2019 Golafshan.H.Sharifzadeh.S.Tamadon.Gh  
Basis and laboratory methods in blood bank (Immunoematology). Third edition

## **Journal Articles**

1) Sedigheh Sharifzadeh, et al: Establishment and characterization of a human large cell lung cancer cell line with neuroendocrine differentiation. Pathology oncology research. vol 10, No4,2004.

2) Majid Yavarian , Sedigheh Sharifzadeh , et al  
The hemoglobin O-indonesia in south of Iran: a case report and review of literature. Haema; 8 (1): 129-132, 2005

3) Mehran Karimi, Omid. Zekavat, Sedigheh Sharifzadeh and Kazem Mosavizadeh  
Clinical response of patients with sickle cell anemia to cromolyn sodium nasal spray. American Journal of Hematology, 81:809-811, 2006

4) Sedigheh Sharifzadeh, Helmut Modjtahedi, Mahmood Jedi Tehrani, Ali Bayat, Abbas Ghaderi  
Production and Characterization of a Monoclonal Antibody against an Antigen on the Surface of Non-Small Cell Carcinoma of the Lung. Iranian journal of immunology; 4(4):206-214,2007

5) Sharifzadeh S, totoonchi A, Rahbarmah M, mohagegzadeh MS, Shokrpur  
Comparison of assessment methods in internship course of clinical laboratory science students. European journal of social science. 23(4):553-558,2011

6) Ranjbaran, R., Okhovat, M.A., Mobarhanfard, A., Bagheri, M., Sharifzadeh, S.\*

Analysis of  $\beta/\alpha$  globin ratio by using relative qRT-PCR for diagnosis of beta-thalassemia carriers

Journal of Clinical Laboratory Analysis. 27 (4), pp. 267-271, 2013

7) Amidzadeh, Z., Behzad Behbahani, A., Erfani, N., sharifzadeh S  
Assessment of different permeabilization methods of minimizing damage to the adherent cells for detection of intracellular RNA by flow cytometry

Avicenna Journal of Medical Biotechnology . 6 (1), pp. 38-46.2014

8) Ranjbaran, R., Okhovat, M.A., Mobarhanfard, A., Bagheri, M., Sharifzadeh, S\*.

Relationship between AHSP gene expression,  $\beta/\alpha$  globin mRNA ratio, and clinical severity of the  $\beta$ -thalassemia patients

Annals of Clinical and Laboratory Science 44 (2), pp. 189-193, 2014

**9)** Sharifzadeh, S., Ghasempour, M., Hajebrahimi, M., Rezaianzadeh, A., Dehghan, S. Evaluation of the scientific output in one of the major medical universities of Iran

Shiraz E Medical Journal .15 (3), e22360, 2014

**10)** Golafshan, H.A., Ranjbaran, R., Kalantari, T., Aboualizadeh, F., Sharifzadeh, S.\*

Evaluation of red cell membrane cytoskeletal disorders using a flow cytometric method in south Iran

Turkish Journal of Hematology .31 (1), pp. 25-31, 2014

**11)** Farhadi, A., Behzad-Behbahani, A., Geramizadeh, B., Rahsaz, M., Sharifzadeh, S.\*

High-risk human papillomavirus infection in different histological subtypes of renal cell carcinoma

Journal of Medical Virology .86 (7), pp. 1134-1144, 2014

**12)** Kazemi, E., Mortazavi, S.M.J., Ali-Ghanbari, A., Zal, F., Haghani, M., Sharifzadeh S

Effect of 900 MHz electromagnetic radiation on the induction of ROS in human peripheral blood mononuclear cells

Journal of Biomedical Physics and Engineering

5 (3), pp. 105-114, 2015

**13)** Mortazavi, S., Foadi, M., Mozdarani, H., Nematollahi, S., Sharifzadeh, S. Future role of vitamin C in radiation mitigation and its possible applications in manned deep space missions: Survival study and the measurement of cell viability

Iranian Journal of Radiation Research .13 (1), pp. 55-60, 2015

**14)** Keshavarz, Z., Moezzi, L., Ranjbaran, R., Abdullahi, M., Sharifzadeh\*, S.



Evaluation of a modified DNA extraction method for isolation of cell-free fetal DNA from maternal serum .

Avicenna Journal of Medical Biotechnology .7 (2), pp. 85-88, 2015

**15)** E.kazemi , S.M.J.Mortazavi, A.Ali Ghanbari ,  
H.Mozdarani,S.Sharifzadeh,Z.Mostafavi-pour,F.Zal,S.Haghdooost

The effect of superposition of 900MHZ and incoherent noise electromagnetic fields on the induction of reactive oxygen species in Sp2/0 cell line. International journal of Radiation Research ,13(3) ,pp. 275-280,2015

**16)**R. Ranjbaran, M. A. Okhovat, M. Abbasi, L. Moezzi, F. Aboulizadeh, Z. Amidzadeh, H. A. Golafshan, A. Behzad-Behbahani, S. Sharifzadeh\*

Detection of t (9;22) b2a2 fusion transcript by flow cytometry

Int J Lab Hematol. Aug;38(4):403-11. 2016

**17)**Masooma Abdullahi<sup>1,2</sup>, Reza Ranjbaran<sup>1</sup>, Soheila Alyasin<sup>3</sup>, Zeinab Keshavarz<sup>1</sup>, Amin Ramezani<sup>4</sup>, Abbas Behzad-Behbahani<sup>1</sup>, Sedigheh Sharifzadeh\*

Expression of Basophil Activation Markers in Pediatric Asthma

Iran.J.Immunol. VOL.13 NO.1 March 2016

**18)** Khalvati B<sup>1</sup>, Sheikhsaran F<sup>1</sup>, Sharifzadeh S , Kalantari T<sup>2</sup>, Behzad Behbahani A<sup>2</sup>, Jamshidzadeh A<sup>3</sup>, Dehshahri A

Delivery of plasmid encoding interleukin-12 gene into hepatocytes by conjugated polyethylenimine-based nanoparticles.

Artif Cells Nanomed Biotechnol. Jun 30:1-9. 2016

**19)** Reza Fardid, Ph.D.1, Ashkan Salajegheh, M.Sc.1\*, Mohammad Amin Mosleh-Shirazi, Ph.D.2, Sedigheh Sharifzadeh, Ph.D.3, Mohammad Ali Okhovat, B.Sc.3, Masoud Najafi, M.Sc.4, Abolhasan Rezaeyan, M.Sc.5, Akbar Abaszadeh, M.Sc

Melatonin Ameliorates the Production of COX-2, iNOS, and The Formation of 8-OHdG in Non-Targeted Lung Tissue after Pelvic Irradiation

Cell Journal(Yakhteh), Vol 19, No 2, Jul-Sep (Summer), Pages: 324-331.2017

**20)** Taheri MN<sup>1</sup>, Behzad-Behbahani A<sup>2</sup>, Rafiei Dehbidi G<sup>2</sup>, Salehi S<sup>1</sup>, Sharifzadeh S\*

Engineering, expression and purification of a chimeric fibrin-specific streptokinase.

Protein Expr Purif. Dec;128:14-21. 2016

**21)** Moezzi L<sup>1</sup>, Keshavarz Z<sup>2</sup>, Ranjbaran R<sup>1</sup>, Aboualizadeh F<sup>1</sup>, Behzad-Behbahani A<sup>1</sup>, Abdullahi M<sup>1</sup>, Ramezani A<sup>3</sup>, Samsami A<sup>4</sup>, Sharifzadeh S<sup>1\*</sup>

Fetal RHD Genotyping Using Real-Time Polymerase Chain Reaction Analysis of Cell-Free Fetal DNA in Pregnancy of RhD Negative Women in South of Iran.

Int J Fertil Steril. 2016 Apr-Jun;10(1):62-70.

**22)** M Mahmoodi, A Behzad-Behbahani, S Sharifzadeh , SS Abolmaali, ...  
Co-condensation synthesis of well-defined mesoporous silica nanoparticles: effect of surface chemical modification on plasmid DNA condensation and transfection

IET nanobiotechnology

.2017.11 (8), 995-1004

**23)** A Alipoor, R Fardid, S Sharifzadeh

Evaluating gamma-H2AX expression as a biomarker of DNA damage after X-ray in angiography patients

Journal of biomedical physics & engineering 2018 .8 (4), 393

**24)** A Asgari, S Sharifzadeh, A Ghaderi, A Hosseini, A Ramezani

In vitro cytotoxic effect of Trastuzumab in combination with Pertuzumab in breast cancer cells is improved by interleukin-2 activated NK cells

Molecular biology reports .2019.46 (6), 6205-6213

**25)** Namdari, S., Arabsolghar, R., Sharifzadeh, S., (...), Ranjbaran, R., Behzad-Behbahani, A

Anti-HBS antibody levels and anti-HBC detection among HBV-vaccinated freshmen enrolled in the department of laboratory sciences, Shiraz University of Medical Sciences, Iran  
Shiraz E Medical Journal 2018  
19(7), e64831

**26)** Yousefi, Z., Sharifzadeh, S., Yar-Ahmadi, V., Andalib, A., Eskandari, N.

Fc Receptor-Like 1 as a Promising Target for Immunotherapeutic Interventions of B-Cell-Related Disorders

Biomarker Insights, 2019 14

**27)** Ranjbaran, R., Zarif, M.N., Sharifzadeh, S., Golafshan, H., Pourfathollah, A.A.

Prevention of transcriptional gamma-globin gene silencing by inducing the hereditary persistence of fetal hemoglobin point mutation using chimera-plast-mediated gene targeting  
Cell Journal 2018  
20(3), pp. 318-325

**28)** Parsa, S., Sharifzadeh, S., Monabati, A., (...), Nemati, M., Jafarzadeh, A

Overexpression of semaphorin-3A and semaphorin-4D in the peripheral blood from newly diagnosed patients with chronic lymphocytic leukemia

International Journal of Hematology-Oncology and Stem Cell Research 2019  
13(1), pp. 25-34

**29)** Shokrgozar, N., Amirian, N., Ranjbaran, R., Bazrafshan, A., Sharifzadeh, S\*.

Evaluation of regulatory T cells frequency and FoxP3/GDF-15 gene expression in beta-thalassemia major patients with and without alloantibody; correlation with serum ferritin and folate levels\

Annals of Hematology  
99(3), pp. 421-429. 2020

**30)** Amirian, N., Ranjbaran, R., Shokrgozar, N., (...), Bazrafshan, A., Sharifzadeh, S.\*

Cytokine  
140,155425. 2021

Skewed intracellular cytokine production of iNKT cells toward Th2-related responses in alloimmunized thalassemia patients

**31)** Ranjbaran, R., Abbasi, M., Rafiei Dehbidi, G., (...), Behzad-Behbahani, A., Sharifzadeh, S.\*

Phosflow assessment of PDGFRA phosphorylation state: A guide for tyrosine kinase inhibitor targeted therapy in hypereosinophilia patients

Cytometry Part A  
99(8), pp. 784-792. 2021

**32)** Shokrgozar, N., Karimi, M., Golmoghaddam, H., (...), Sharifzadeh, S., Arandi, N.

Expression of the immune checkpoint receptors CTLA-4, LAG-3, and TIM-3 in beta-thalassemia major patients: correlation with alloantibody production and regulatory T cells (Tregs) phenotype

Annals of Hematology  
100(10), pp. 2463-2469. 2021

**33)** Zare, F., Sharifzadeh, S\*., Behzad-Behbahani, A., (...), Ranjbaran, R., Seyyedi, N.

Construction and evaluation of short hairpin mas for knockdown of metadherin mrna

Avicenna Journal of Medical Biotechnology.13(4), pp. 217-222. 2021

**34)** Bahmani, T., Sharifzadeh, S., Tamaddon, G., (...), Mosleh-Shirazi, M.A., Behzad-Behbahani, A.

Mitochondrial targeted peptide (KLAKLAK)<sub>2</sub>, and its synergistic radiotherapy effects on apoptosis of radio resistant human monocytic leukemia cell line

Journal of Biomedical Physics and Engineering. 11(2), pp. 229-238. 2021

35) Alipour M, Nasiri N, Kazemi F, Zare F, Sharifzadeh S\*

Resveratrol plus low-dose hydroxyurea compared to high-dose hydroxyurea alone is more effective in  $\gamma$ -globin gene expression and ROS reduction in K562 cells

Nature Product research .37(6),2023

36) Jalali S, Farhadi A, Rafiei Dehbidi G, Farjadian S, Sharifzadeh

S, Ranjbaran R, Seyyedi N, Namdari S, Behzad-Behbahani A

The Pathogenic Aspects of Human Parvovirus B19 NS1 Protein in Chronic and Inflammatory Diseases

Interdisciplinary perspectives on infectious disease Volume 2022 | Article ID 1639990 | <https://doi.org/10.1155/2022/1639990>

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37) Fardid, R; Janipour, S; Haddadi, G; Mahdavi, M; Sharifzadeh, S; Lotfi, M; Rostamyari, M<sup>1</sup>

Evaluation of the relationship between  $\gamma$ -H2AX biomarker levels and dose received after radiation exposure in abdominal–pelvic and chest CT scans  
*Journal of Cancer Research and Therapeutics* :, April 04, 2023. | DOI: 10.4103/jcrt.jcrt\_950\_21

38) Razmara E; Tamaddon, Gh; Ramzi, M; Ranjbaran, R; Abedi, E; Sharifzadeh, S\*

The mRNA Expression of *PTEN*, *LEF1*, *JAK3*, *LC3* and *p62/SQSTM1* Genes in Patients with Chronic Myeloid Leukemia

Cardiovascular & Hematological Agents in Medicinal Chemistry (Formerly Current Medicinal Chemistry - Cardiovascular & Hematological Agents), Volume 21, Number 1, 2023, pp. 67-76(10)

DOI: <https://doi.org/10.2174/1871525720666220819123639>

39) Yousefi z, Sharifzadeh S, Zare F, Eskandari N

Fc receptor-like 1 (FCRL1) is a novel biomarker for prognosis and a possible therapeutic target in diffuse large B-cell lymphoma

*Molecular Biology Reports* volume 50, pages1133–1145 (2023)\_

**40)** Kasraian L, Farhadi A, Rafiei Dehbidi G, Mirzakhani M, Sharifzadeh S , Namdari S , Behzad-Behbahani A

Comparing RT-qPCR and Hepatitis C Virus Antigen Detection Assay for Detecting Active Infection in Blood Donors in Fars Province, Iran

Hepatitis Monthly: Vol.22, issue 1; e123438

DOI: <https://doi.org/10.5812/hepatmon-123438>

**41)** Kian M , Mirzavand S, Sharifzadeh S, Kalantari T, Ashrafmansouri ,Nasri F

Efficacy of Mesenchymal Stem Cells Therapy in Parasitic Infections: Are Anti-Parasitic Drugs Combined with MSCs More Effective?

*Acta Parasitologica* volume 67, pages1487–1499 (2022)

**42)**A review on the latest clinical and laboratory criteria for clinical diagnosis of Systemic Lupus Erythematosus

Nasri F, Sharifzadeh S\*

Laboratory & Diagnosis 14 (55), 9-15