

## In the name of God



### Personal Details:

Name and Surname: Mr. **Fakhredin Saba**

Sex: M Date of Birth: 23/09/1987 Place of Birth: Mahabad

Province and City of Residence: Kermanshah

Work Address: Department of Medical Laboratory Science, School of Paramedical, Dolat Abad St., Ashair roundabout, Kermanshah

Email: saba.fakhredin@gmail.com

### Education

No.	Education Degree	Course and Specialty	University	Country	Year
1	<b>PhD</b>	Laboratory Hematology	TarbiatModaresUniversity	Iran	2018
2	<b>MSc.</b>	Laboratory Hematology	TarbiatModaresUniversity	Iran	2013
3	<b>BSc.</b>	Lab. Science	Tabriz University of Medical Sciences	Iran	2009

## Title of my MS Thesis

Title	Education Degree
Evaluation of CXCR4 gene expression in umbilical cord CD34 + hematopoietic cells in the presence of epinephrine neurotransmitter	MSc
Evaluation of the effect of hypoxia and miR-210 in myeloma multiple cell line	PhD

## Publications

Title	Journal	Year
<b>The Role of Nervous System in Hematopoietic Stem Cell Mobilization</b>	<i>Laboratory Hematology</i>	2013
<b>The Role of Notch Signaling in Bone Marrow Niche</b>	Hematology (Impact factor=1.33)	2014
<b>The Role of Catecholamines in Mesenchymal Stem Cell Fate</b>	Cell and Tissue Research (Impact factor=3.04)	2014
<b>G-CSF induces up-regulation of CXCR4 expression in human hematopoietic stem cells by beta-adrenergic agonist.</b>	Hematology (Impact factor=1.33)	2014
<b>Myeloproliferative disorders and its associated mutations</b>	research in molecular medicine	2014
<b>Molecular Basis of Diagnosis and Prognosis of Chronic Lymphocytic Leukemia", has been accepted for publication in Cellular Oncology</b>	Cellular oncology (Impact factor=4.76)	2014
<b>Chitosan coated tungsten trioxide nanoparticles as a contrast agent for X-ray computed tomography</b>	International Journal of Biological Macromolecules (Impact factor=3.92)	2017
<b>Sex chromosome changes in leukemia: cytogenetics and molecular aspects</b>	Hematology (Impact factor=1.33)	2017
<b>Crosstalk between catecholamines and erythropoiesis</b>	Frontiers in Biology (Impact factor=0.5)	2017
<b>New role of hypoxia in pathophysiology of multiple myeloma through miR-210</b>	EXCLI (Impact factor=2.42)	2018
<b>The Statue of Cytokines Therapy in Blood Transfusion</b>	Molecular biology reports	2019
<b>Red blood cells are appropriate carrier for coagulation factor VIII</b>	Cardiovascular and Hematological Disorders - Drug Targets	2020
<b>Long noncoding RNAs (lncRNAs) in human lymphomas</b>	Genes and Diseases (Impact factor=4.8)	2021

## Research projects

Title	University of Medical Sciences / Organization	collaborate	Year
Synthesis of gold nanoparticles coated with Daphne cneorum plant extract containing the antioxidant compounds of terzene terpene as a contrast agent in CT scan	Kermanshah	Main Co-researchers	2019
Study of synergistic effect of gold nanoparticles synthesized with Tetraena lasiopetalum water extract on osteogenic differentiation of mesenchymal stem cells	Kermanshah	First Main Researcher	2019
Study of hidden curriculum components from the perspective of Kermanshah University of Medical Sciences students	Kermanshah	First Main Researcher	2019
Evaluation of the direct and indirect effect of transfusion (number and age of blood pack cells) on adverse outcomes in patients undergoing coronary artery bypass graft in Imam Ali Hospital	Taleghani Hospital	Second Main Researcher	2020
Investigating the appropriateness of internships in the fields of laboratory science and nursing to the activities of workplace based on the opinions of the graduates Human Resources Plan from the Graduates' Viewpoints	Kermanshah	First Main Researcher	2020
Fully Automated instrument for ABO Grouping, Rh Typing, Cross matching and Antibody screening	Kermanshah	First Main Researcher	2020
Planning a roadmap and future development of laboratory hematology and Blood Banking in the country based on possible scenarios for the future and future situation of desirable condition in comparison with the other models	National Center for Strategic Research	First Main Researcher	2021

## Books

Title	Year
Chemotherapy and bone marrow transplantation	2015
Scientific quality of medical hadiths	2016
Algorithmic study of blood diseases	2016

## Lectures

Title	Year
blood and blood products (homogeneity)	2019
Interpretation of complete blood count (CBC) test based on dominant	2019

patterns	
Diagnostic applications of flowcytometry in blood malignancies	2019
Quality assurance in blood transfusion tests	2019
Interpretation of anemias and practical tips about them	2020
Laboratory evaluation of microcytic anemias	2021

**Research interest:**

- ✓ Stem cells such as hematopoietic stem cell, Mesenchymal stem cells, Fibroblast stem cells
- ✓ Thalassemia and Anemia Disorders
- ✓ Nanoparticles and green synthesis
- ✓ Laboratory quality control