

Sakhavat abolhasani

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Department of Clinical Biochemistry, Sarab Faculty of Medical Sciences, Tabriz University of Medical Sciences, East Azerbaijan, Iran.

Professional experience

Professor (Assistant) Department of Clinical Biochemistry Sarab Faculty of Medical Sciences. Sarab, East Azerbaijan, Iran (may 2021- present)

Deputy of Research, Sarab Faculty of Medical Sciences, teaching, Research and Treatment Hospital (Oct 2021- present)

An lecture of Clinical Biochemistry course in Iran Branch of Traditional, Complementary and Alternative Medicine University (2016-2015)

Work in clinical diagnostic laboratories (2008-2012)

EDUCATION

2015- Ague 2020

PhD Clinical Biochemistry (expected Ague 2020)

Department of Clinical Biochemistry, school of Medicine, Shahid Beheshti University of Medical Sciences, Tehran, Iran

Thesis: influence of micropatterned cell-substrate stiffness on specific contractile markers of smooth muscle cell during differentiation of human mesenchymal stem cell.

Supervisors: Professor Masoumeh Rajabibazl, Dr. Mohammad-Mehdi Khani

2012-2015

Master of Clinical Biochemistry

Department of Clinical Biochemistry, Faculty of Medicine, Tabriz University of Medical Sciences. Tabriz, Iran

Thesis: Relationship between serum levels of Vitronectin, Malondialdehyde (MDA) and hs-CRP with extension of coronary artery disease.

Supervisors: Associate Professor Fatemeh khakikhatibi

2004-2008

Bachelor of Veterinary Laboratory Sciences

Faculty of Veterinary Medicine, University of Tabriz. Tabriz, Iran

RESEARCH EXPERIENCE:

2021- Present

Research Assistant, Department of Clinical Biochemistry, Sarab Faculty of Medical Sciences, Tabriz University of Medical Sciences, Iran.

Project: Effect of micro-groove cell-substrate on heavy chain myosin vascular smooth muscle, KLF4 / 5, cadherin 2 and 11 during differentiation of mesenchyme stem cells in vitro

Supervisor: Sakhavat Abolhasani

2017–2020

Research Assistant, Doctoral level

Department of Clinical Biochemistry, school of Medicine, Shahid Beheshti University of Medical Sciences, Tehran, Iran

Project: influence of micropatterned cell-substrate stiffness on specific contractile markers of smooth muscle cell during differentiation of human mesenchymal stem cells

Supervisor: Professor Masoumeh Rajabibazl and Dr. Mohammad-Mehdi Khani

2012–2015

Research Assistant, Master's level

Department of Clinical Biochemistry, Faculty of Medicine, Tabriz University of Medical Sciences. Tabriz, Iran

Project: Relationship between serum levels of Vitronectin, Malondialdehyde (MDA) and hs-CRP with extension of coronary artery disease.

Supervisors: Associate Professor Fatemeh khakikhatibi

Research Assistant, Center for Applied Pharmaceutical Research, Tabriz, Iran

Department of Clinical Biochemistry, Faculty of Medicine, Tabriz University of Medical Sciences. Tabriz, Iran

Project: Survey of relationship between vitamin D receptor ApaI, Fok polymorphisms with serum levels of vitamin D and Fetuin A protein in hemodialysis patients

Supervisors: Professor Amir Ghorbani Haghjoo

Research Assistant, Cardiovascular Research Center, Tabriz University of Medical

Science,

Department of Clinical Biochemistry, Faculty of Medicine, Tabriz University of Medical Sciences. Tabriz, Iran

Project: Relationship of serum levels, PAI-1 Malondialdehyde and OX-LDL with the extent of coronary heart disease

Supervisors: Associate Professor Fatemeh khakikhatibi

Research Assistant, Cardiovascular Research Center, Tabriz University of Medical Science,
Department of Clinical Biochemistry, Faculty of Medicine, Tabriz University of Medical Sciences. Tabriz, Iran

Project: association of serum levels of fibronectin, leptin and hs-CRP with the extent of coronary heart disease

Supervisors: Associate Professor Fatemeh khakikhatibi

Research Assistant, Cardiovascular Research Center, Tabriz University of Medical Science,
Department of Clinical Biochemistry, Faculty of Medicine, Tabriz University of Medical Sciences. Tabriz, Iran

Project: Relationship of serum sialic acid and hs-CRP, MDA with the extent of coronary artery disease.

Supervisors: Associate Professor Fatemeh khakikhatibi

RESEARCH INTERESTS

Research on the mechanisms and progression of cardiovascular disease.

Biology cardiovascular.

Mechanisms Substrate topography of smooth muscle vascular differentiation of stem cells.

Monitoring the pathway of signal differentiation of stem cells into vascular cells to better understand the Mechanisms of differentiation *in vitro* and *in vivo*.

Regenerative medicine of cardiovascular.

PUBLICATIONS

Publication in refereed journals

- ✓ Golnoosh Mahjoob, Yassin Ahmadi, Huda Fatima rajani, Nafiseh khanbabaei, Sakhavat Abolhasani*, REVIEW (29March 2022). Circulating microRNAs as predictive biomarkers of coronary artery diseases in type 2 diabetes patients. *Journal of Clinical Laboratory Analysis*
- ✓ Sakhavat Abolhasani, Masoumeh Rajabibazl, Mohammad-Mehdi Khani b, Azim Parandakh c, Reyhaneh Hoseinpoor. (2020, September–October). The cooperative effects of micro-grooved topography and TGF- β 1 on the vascular smooth muscle cell contractile protein expression of the mesenchymal stem cells. *Differentiation Journal*

- ✓ Nafiseh Khanbabaiea, Hossein Mozafar Saadatib, Shahnam Valizadeh Shahbazlooc, Reyhaneh Hoseinpoord, Seyed Hossein Naderia, Roya Taghvamanesha and Sakhavat Abolhasani*. (2021, March). Association of serum leptin with angiographically proven cardiovascular disease and with components of the metabolic syndrome: a cross-sectional study in East Azerbaijan. *Cardiovascular Endocrinology & Metabolism*

- ✓ S Abolhasani, SV Shahbazloo. (2019, August). Evaluation of Serum Levels of Inflammation, Fibrinolysis and Oxidative Stress Markers in Coronary Artery Disease Prediction: A Cross-Sectional Study. *Arquivos brasileiros de cardiologia*

- ✓ A Yaghoubi, M Ghojzadeh, S Abolhasani. (July 2015). Correlation of Serum Levels of Vitronectin, Malondialdehyde and Hs-CRP with Disease Severity in Coronary Artery Disease. *Journal of Cardiovascular and Thoracic Research*.

- ✓ N Mahmoodi, S Abolhasani. (June 2014). Relationship between serum levels of fibronectin, leptin and hs-CRP with extension of coronary artery disease. *Bulletin of Environment, Pharmacology and Life Sciences*

- ✓ F Khaki-Khatibi, N Mahmoodi, S Abolhasani. (June 2014). Correlation of fibrinolysis marker of plasma plasminogen activator inhibitor type-1 and oxidative stress parameters in occurrence and progression of coronary artery disease. *Bulletin of Environment, Pharmacology and Life Sciences*

- ✓ Shahnam Valizadeh Shahbazloo, Amir Ghorbanihaghjo, Sakhavat Abolhasani. (April 2016). Polymorphisms of Vitamin D Receptor Gene (Apa I... Fok I) and its Association with Serum Vitamin D and Parathyroid Hormone Levels in Hemodialysis Patients. *Majallah-i pizishki-i Danishgah-i Ulum-i Pizishki va Khadamat-i Bihdashti-i Darmani-i Tabriz*

- ✓ F Khaki-Khatibi, S Abolhasani. (April 2015). Vitronectin, Serum Hs-CRP Levels and its association with the Extent and Severity of Coronary Artery Disease in Non-Smokers. *Majallah-i pizishki-i Danishgah-i Ulum-i Pizishki va Khadamat-i Bihdashti-i Darmani-i Tabriz*

PRESENTATIONS, PAPERS, AND POSTERS

- Sakhavat Abolhasani, Nafiseh khanbabaei: Influence of matrix rigidity on the differentiation of mesenchymal stem cells in response to TGF- β . *Paper presented at the International Congress on Biomedicine, Tehran, Iran. 2017.*
- Member of the Executive Committee of the 14th National Congress of Iranian Biochemistry.

ACADEMIC COMMUNITY INVOLVEMENT

- Reviewer, Metabolic Syndrome and Related Disorders journal
- Reviewer, BMC Cardiovascular Disorders

PRACTICAL SKILLS FROR RESERCHE

- Cell culture (culture mesenchymal stem cells of PDMS Substrates)
- Immunocytochemistry (ICC)
- Western Blotting
- Immunofluorescence
- Reverse transcription polymerase chain reaction (RT-PCR)
- Enzyme-linked immunosorbent assay (ELISA)
- Electrophoresis
- SDS-PAGE
- GraphPad Prism