



REZA SHIR ALE MOHAMMAD

BS. in Cell and Molecular Biology

OBJECTIVE

Hard-working analytical student with proven skills in academics. Seeking to apply my passion, imagination, creativity and knowledge to your graduate trainings. As a person who is strongly committed to excellence, I am confident that as a member of your society, I will bring a high level of energy to your program.

INTERESTS

Transcriptomics
High Throughput Data Analysis
Cancer Genomics
Computational Biology
Gene Regulatory Networks
Functional Genomics
Personalized Medicine
Biomarker Discovery

EDUCATION

Undergraduate Study • Sep 2015 – July 2020

Bachelor of Science in Cell and Molecular Biology, Department of Biology, Faculty of Sciences, Ferdowsi University of Mashhad, Iran
GPA: 17.58 out of 20 (3.64 out of 4)

High school and Pre-university Studies • 2011 – 2015

Bio-experimental Sciences, Shahid Hasheminejad High School (under the supervision of **NODET** – National Organization for Development of Exceptional Talents), Mashhad, Iran.

RESEARCH & LAB EXPERIENCE

Stem Cell and Regenerative Medicine Research Group, Academic Center for Education, Culture and Research (ACECR), Mashhad, Iran, July 2019 – Present

Transcriptome profiling of cells isolated from bone marrow of patients with B cell acute lymphoblastic leukemia, under supervision of [Dr. Moein Farshchian](#).

I have presented part of data of this project as my bachelor's [thesis](#).
Stem Cell and Regenerative Medicine Research Group, Academic Center for Education, Culture and Research (ACECR), Mashhad, Iran, November 2019 – December 2020

Transcriptome profiling of lncRNAs expressed in patients with gastric cancer, under supervision of [Dr. Moein Farshchian](#).
Cell and Molecular Laboratory, Ferdowsi University of Mashhad, Mashhad, Iran, November 2018 – October 2019

DNA Extraction from blood samples in order to make a biobank from patients with gastrointestinal cancers, under supervision of [Dr. Maryam M. Matin](#).

PUBLICATIONS

Manuscript in Preparation:

Identification of novel lncRNAs involved in activation of epithelial-mesenchymal transition (EMT) pathway in patients with gastric cancer

SKILLS

Bioinformatics:

RNA-Seq Data Analysis: Differential Expression Analysis, QC, Alignment and Mapping, Visualization, Functional Analysis, Gene Set Enrichment Analysis, Co-expression Analysis, RNA-editing and Splicing Analysis (Basic)

Programming:

R (Intermediate), Bash Scripting (Intermediate), Python (Basic)

Laboratory:

DNA Extraction

TEACHING EXPERIENCE

Biology Olympiad

40 hours (20 sessions) teaching Biology Olympiad to students in Shahid Hasheminejad High School (under the supervision of **NODET**)

EXECUTIVE EXPERIENCE

Organizing the public conference on cancer entitled "Cancer in a Nutshell", Ferdowsi University of Mashhad, 8 February 2020

Founder of Cancer Prevention Association of Ferdowsi University of Mashhad, Ferdowsi University of Mashhad, August 2019

Executive chair of the First National Symposium on Organoids, Ferdowsi University of Mashhad, 1 May 2019

Secretary of the Student Scientific Association of Biology, Ferdowsi University of Mashhad, June 2017 – July 2018

Organizing the International Conference on Integrative Approaches of Rodent Studies, Ferdowsi University of Mashhad, 27 – 29 January 2018

Secretary of the Student Scientific Association of Faculty of Sciences, Ferdowsi University of Mashhad, July 2017 – January 2018

AWARDS AND HONORS

Acknowledged officially from the head of **INSF** (Iran National Science Foundation) for being elected as a finalist in the **"1st National Festival of PANASE"** – PANASE is a festival for presenting dissertation in 3 minutes

Acknowledged officially from the head of Deputy for Socio-Cultural Affairs of the Ministry of Science, Research and Technology of Iran in the **"11th National Student Festival of HARKAT"**

Acknowledged officially from the President of Ferdowsi University of Mashhad due to my activities as the Secretary of the Student Scientific Association of Faculty of Sciences

Acknowledged officially from the head of Deputy for Research and Technology of Faculty of Sciences of Ferdowsi University of Mashhad due to my contribution of holding research week event

LANGUAGES

Persian (Native)

English (Advanced)

IELTS: 7

L (7.5), R (8), W (6), S (7)

CONTACT

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rezashiralmohammad@gmail.com

EXTRA-CURRICULAR ACTIVITIES

SUMMER SCHOOLS:

- 1.Principles of PCR and Electrophoresis 2.PCR Primer Design 3. Sequencing and Data Analysis, 5 – 16 August 2017, Influenza and Other Respiratory Viruses Dept, Pasteur Institute of Iran, Tehran, Iran.

WORKSHOPS:

- Next Generation Sequencing Data Analysis, 18 – 19 April 2019, ACECR Khorasan Razavi, Mashhad, Iran
- Tumor Therapy Techniques in Mouse Model, 30 January 2019, Mashhad, Iran
- Cell Culture and Drug Screening Techniques, 20 – 28 November 2018, Mashhad, Iran
- The Principles of Statistical Analyses in Biology with R, April 2018 (20 hours), Mashhad, Iran
- Bases of Biostatistics, October 2017 (20 hours), Mashhad, Iran
- Cell Culture (Theory and Applied), 2 – 3 March 2017, Mashhad, Iran

ATTENDED CONGRESSES and SYMPOSIUMS:

- 1st National Symposium on Organoids, 1 May 2019, Mashhad, Iran
- 3rd National Festival and International Congress on Stem Cell & Regenerative Medicine, 28 Nov – 1 Dec 2018, Tehran, Iran
- 2nd National Festival and International Congress on Stem Cell & Regenerative Medicine, 13 – 15 July 2017, Tehran, Iran
- 2nd International Congress on Stem Cells and Regenerative Medicine, 19 – 21 April 2017, Mashhad, Iran

REFERENCES

Dr. Moein Farshchian

Molecular Medicine Research Department, ACECR-Khorasan Razavi Branch, Mashhad, Iran

Email: moein.farshchian@alumni.um.ac.ir

Dr. Maryam M. Matin

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Dr. Zeinab Neshati

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