

Maryam Ghaeidamini

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Education

Master of Science in Cellular and Molecular Biology **2015-2018**
University of Isfahan, Isfahan, Iran (among top 3 Iranian universities providing this master's program)
GPA: (16.44/20)

Thesis work:

- Evaluation of metabolic pathways affecting drug resistance of leukemic cells
- Assessment of Gene Expression Profile in Children with Acute Lymphoblastic Leukemia
- Cell culture of 2 cell lines including CCRF/ NALM6 and carrying out related RT-qPCR
- Combinational treatment of leukemic cell lines with chemotherapeutic and herbal medicine extract and Assessment of survival and gene expression

Bachelor of Science of Plants **2010-2014**
University of Isfahan, Isfahan, Iran (among top 3 Iranian universities providing this program) GPA:
(15.58/20)

Work Experience

Research assistant, Isfahan University of medical science **2021-now**

I am involved in two research projects at Regenerative Medicine Research Center (rmrc.mui.ac.ir), Isfahan University of Medical Sciences as a research assistant. The first project is an in silico study aimed to discover key drivers in the pathogenicity of focal and segmental glomerulosclerosis. The result of this study is published in Kidney and Blood Pressure Research journal. In this project, I contributed to the data analysis and drafting of the manuscript. The second project is a meta-analysis study, and I'm contributing to gathering the related data, analyzing them, and drafting the manuscript.

Research intern, Genome Institute of Singapore **2018-2019**

During my internship, I contributed to two projects; the first project was about single-cell RNA-sequencing, in which I performed single-cell capture, cDNA synthesis, library preparation and quality control analysis of single-cell libraries. The result of this research is under preparation for which I'm among the authors.

The second project was about predicting and synthesizing the genomic enhancers to increase the expression of some recombinant protein, and I performed cell culture, cloning, transfection, and luciferase assay experiments.

Laboratory Skills

- Single cell RNA-sequencing(single cell capturing/ cDNA synthesis/ library preparation)
- Sample preparation (blood/ tissue) for single-cell RNA-sequencing
- Peripheral blood mononuclear cells (PBMCs) isolation with Ficol-gradient centrifugation
- Quality control analysis of single cell libraries using Agilent bioanalyzer
- Molecular biology techniques(cloning/transfection)
- Luciferase assay
- Real time PCR method
- Gel electrophoresis
- PCR method
- RNA and DNA extraction
- Cell culture (HEK293/ HeLa/ CCRF-CEM/ NALM6 cell lines)
- Cell viability assay
- Cell treatment

Bioinformatics skills

- R Programming
- Primer designing
- Software: Microsoft office package, Oligo7, Gene Runner, Endnote, GraphPad Prism

Publications

- **Ghaeidamini Harouni, M.**, Rahgozar, S., Rahimi Babasheikhali, S., Safavi, A., & Ghodousi, E. S. (2020). Fatty acid synthase, a novel poor prognostic factor for acute lymphoblastic leukemia which can be targeted by ginger extract. *Scientific reports*, *10*(1), 1-13. <https://doi.org/10.1038/s41598-020-70839-9>
- Gholaminejad, A., **Ghaeidamini, M.**, Simal-Gandara, J., & Roointan, A. (2022). An Integrative in silico Study to Discover Key Drivers in Pathogenicity of Focal and Segmental Glomerulosclerosis. *Kidney and Blood Pressure Research*. <https://doi.org/10.1159/000524133>

Languages

English (Fluent)

References

Prof. Rahgozar, Isfahan University: rahgozar@sci.ui.ac.ir

Prof. Alieh Gholaminejad, Isfahan University of Medical Science: a.gholaminejad@res.mui.ac.ir

Prof. Shyam Prabhakar, Genome Institute of Singapore: prabhakars@gis.a-star.edu.sg