

First name: FATEMEH

Last name: FIROOZI AMOUDIZAJ

Father's name: Ali

Gender: Female

Marital status: Married

Date of birth: 3/10/1989

Education Qualification: Master of Molecular Genetics, Islamic Azad University of Tabriz

Certifications

Four Certificates in Cell Culture and Molecular Techniques:

- Certificate of Appreciation for excellent execution in molecular and cytogenetic methods/ Tabriz International Hospital Research Center.
- Endnote Software Training Workshop/ Islamic Azad University of Tabriz.
- Antioxidant Profile Study Workshop/ Urmia University of Medical Sciences.
- Certificate of Internship in Medical Diagnosis Laboratory/ Mehr Medical Diagnosis Laboratory, Karaj.

Contact

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Languages

Azerbaijani (Native)

Persian (Native)

Turkish (Moderate)

Arabic (Poor)

English (Moderate)

Work Experience

1. Worked in the Medical Diagnostic Laboratory (*Summer 2016*).
2. Activities in the field of stem cell and cancer cell cultures (*July 2017- Present*).
3. Cooperation in Research Projects of Biotechnology Research Center in Technical - Vocational Training Organization of Tabriz (*October 2017- May 2018*).
4. Sessional lecturer, Islamic Azad University of Tabriz (*October 2019 - Present*).
5. Cooperation in Research Projects of Biotechnology Research Center in Islamic Azad University of Tabriz.
6. Performed Cell Culture Workshops at Biotechnology Research Center of Islamic Azad University of Tabriz.
7. Performed Cell Culture Internships at Biotechnology Research Center of Islamic Azad University of Tabriz.
8. Performed PCR workshop at Biotechnology Research Center of Islamic Azad University of Tabriz.
9. Cooperation in the research project of the Tuberculosis and Lung Disease Research Center, Tabriz University of Medical Science. (*2019 - 2021*)
10. Member of Zist Yakhte Darou Gostare Aras Company as the main inspector (*2019 - Present*)
11. Collaboration in the joint-research project between Biotechnology Research Center and Biophotonic Research Center of Islamic Azad University of Tabriz, entitled: The effect of low power laser on the promotion of spermatogenesis in azoospermia mice (in vivo and in vitro) (*2019 - Present*)
12. Cooperation in covid-19 kit design research project with Islamic Azad University of Tabriz (*2020 - 2022*).
13. Collaborate in doing student dissertations as a collaborator (*2020 - Present*).

Scientific Achievements

- **Completion of Master's Degree with GPA A.**
- **Eight scientific papers in the field of genetics:**
 - 1) Association of rs1946518 C/A Polymorphism in Promoter Region of Interleukin 18 Gene and Breast Cancer Risk in Iranian Women: A Case-control Study
 - 2) Inhibition of Colorectal Cancer Cell Line CaCo-2 by Essential Oil of Eucalyptus camaldulensis Through Induction of Apoptosis
 - 3) Antibiotic Resistance Pattern and Frequency of PER-1, SHV-1 and AMPC Type B-Lactamase Genes in Pseudomonas Aeruginosa Isolated from Clinical Samples
 - 4) Terminalia Catappa Extract (TCE) Reduces Proliferation of Lung and Breast Cancer Cell by Modulating miR-21 and miR-34a Expressions
 - 5) Wharton Jelly Stem Cells inhibits AGS Gastric Cancer Cells through Induction of Apoptosis and Modification of MAPK and NF-KB Signaling Pathways
 - 6) Drug repurposing for coronavirus (SARS-CoV-2) based on gene co-expression network analysis

- 7) The effect of low power laser on the promotion of spermatogenesis in mouse model of azoospermia (in-vivo).

- **Under Review**

- 1) Inhibition of Cervical Cancer Cell Line Hela by Human Wharton's Jelly Stem Cells Through Regulation of IDO1, TDO2, PD-1 and CTLA-4 Genes
- 2) Improvement of Spermatogenesis in Infertile Mice through Low-Level-Laser Therapy Targeting Molecular Pathways.
- 3) The effect of exosomes extracted from Sertoli cells on mouse spermatogonial stem cells differentiation
- 4) Apoptosis induction in lung cancer cells following treatment with Wharton's jelly and its effect on the expression of apoptotic genes SMAC and SURVIVIN

Skill Highlights

- Skills in cell culture techniques (cultures of Stem cells, Cancer cells and 3D culture).
- Skills in PCR / Real-time PCR / RFLP-PCR / Nested -PCR / ARMS-PCR / Multiplex-PCR techniques.
- Design of research kits.
- Design of Primer Types.

Other Skills and Specialties:

Business:

- Exhibition and Workshop Management

Team working:

- Team leadership
- Improve business process
- Business Development

Computer:

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|---------------|---------------|
| • Word | • Oligo7 |
| • Excel | • Gene Runner |
| • Power point | • Primer 3 |
| • Photoshop | |