

# Maryam Pirani

## Personal information

|Date of birth: 21/09/1986  
Iran

|Gender: Female

|City, Country : Ilam,

|Marital status: married

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## Professional Summary

Enthusiastic, eager to contribute to team success through hard work, attention to detail and excellent organizational skills. Clear understanding of the **In vitro fertilization** filed, searching for a successful carrier in the field of Embryology, which will help me to explore myself fully and explore my potential. I'm willing to work in a challenging & creative environment. I'm confident that my skills can give greater contributions for your organization.

## Skills

- Clinical embryology (Human)
- Quality Control Procedures
- Quality Control Guidelines
- Lab Equipment Calibration
- Documentation Requirements
- Equipment Maintenance
- Inventory management aptitude

### Clinical embryology (Human) :

1. Semen analysis (Swim up, DGC,...) , IUI
2. Sperm preparation for IUI, IVF and ICSI
3. sperm freezing
4. Hos test
5. Cumulus-Oocyte complex (COS)collection
6. Oocyte denudation
7. Micro Injection (ICSI)
8. IVF
9. Embryo culture (any stage)
10. Embryo Transfer
11. Egg activation
12. Embryo (cleavage and blastocyst stage) and oocyte cryopreservation and thawing
13. medium preparation
14. IVM
15. Ovarian tissue cryopreservation
16. Post-Ejaculation Urinalysis Test
17. Embryo Biopsy

## **Work History**

### **IVF Lab, Taleghani Hospital (Embryologist Assistant).**

2017-2021

Tehran, Iran

- Performed all seminology tasks (semen analysis, Semen preparation of IUI by swim up, density gradient, semen HBA.
- Preparing media, dishes for TESA, TESE micro dissection plus searching for sperm.
- Checking IVF Lab & Machine, doing quality control of IVF Lab, Checking stocks, requesting disposable and media.
- Preparing dishes of OPU, egg collection and stripping.
- Retrieving of oocytes and oocytes dissection.
- All preparation activities for ICSI, ET and embryo freezing.
- ICSI & IVF

### **IVF Lab, Mahdiah Hospital (Embryologist Assistant).**

2017-2021

Tehran , Iran

- Performed all seminology tasks (semen analysis, Semen preparation of IUI by swim up, density gradient (DGC), semen HBA, ....
- Preparing media dishes for TESA, TESE micro dissection plus searching for sperm and sperm retrieval.
- Serm Chromatin Dispersion Test (SCD-Test)
- Checking IVF Lab & Machine, doing quality control of IVF Lab, Checking stocks, requesting disposable and media.
- Preparing dishes of OPU, egg collection and stripping.
- Retrieving of oocytes and oocytes dissection.
- All preparation activities for ICSI, ET and embryo freezing.
- ICSI & IVF

### **IVF Lab, Taleghani Hospital (Ilam University of medical science), IVF Lab Manager and director**

2021-present

**Setting up Taleghani Hospital IVF center, including: Design and Equipment of IVF lab, Andrology Lab, Surgery room (A to Z)** Ilam.Iran.

IVF Lab Manager, clinical embriologist

2017-2021

## **Education**

### **PhD in Reproductive Biology**

Shahid Beheshti University Of Medical science, Department of Anatomy & Biology Tehran, Iran

(ranked the first in the national university entrance exam of the Phd degree in Iran government, 2017)

(Ranked the first among Ph.D students of Reproductive Biology major, Shahid beheshti University of medical science, 2021)

Special talented student among Ph.D students of Reproductive Biology major, Shahid beheshti University of medical science, 2017)

### **Master of Science**

2010-2012

Tehran University of Medical Science, Department of physiology

Tehran, Iran

( ranked the third in the national university entrance exam of the master degree in Iran government, 2010)

(Ranked the first among master students of physiology major, Tehran University of medical science, 2012)

### **Bachelor of Science**

2005-2009

Urmia University, Department of Biology

Urmia, Iran

## **Teaching:**

- Physiology course (for B.Sc students)

## **Laboratory Skills:**

- Mouse sperm retrieval and preparation, COC collection and IVF
- Cell culture
- ELISA
- MTT Assay

- Animal Handling (Surgery,...)
- Histotechniques (sectioning with microtome and tissue staining)
- Immunohistochemistry

## Articles:

**Protective effects of Fisetin in the mice induced by long-term scrotal hyperthermia.** Maryam Pirani, Marefat Ghaffari Novin, Mohammad amin Abdollahifar, Abbas Piryaee, Zahra Kuroshli, Zhraa Shams Mofarahe, **Reproductive Science, 2021.**

**The efficacy of Vitamin D Supplement in the expression an protein levels of endometrial decidualization factors in women with recurrent implantation failure.** Zahra Kuroshli, Marefat Ghaffari Novin, Hamid Nazarian, Mohammad-Amin Abdollahifar, **Maryam Pirani**, Zhraa Shams Mofarahe. **Reproductive Science, 2023.**

**Elderberry Diet Restores Spermatogenesis in the Transient Scrotal Hyperthermia-Induced Mice.** Meysam Hassani Moghaddam, Amirhosein Hasani, Amirreza Khosravi, **Maryam Pirani**, Kimia Vakili, Abbas Aliaghaei & Mohammad-Amin Abdollahifar. **Reproductive Science, 2022.**

**An effective method for establishing animal models of azoospermia and oligospermia.** Amirreza Khosravi, Amirhosein Hasani, Abbas Piryaee, **Maryam Pirani**, Abbas Aliaghaei, Shabnam Abdi, Mohammad-Amin Abdollahifar. **Andrologia 2021.**

**Non-apoptotic cell death such as pyroptosis, autophagy, necrosis and ferroptosis acts as partners to induce testicular cell death after scrotal hyperthermia in mice.** Amirhosein Hasani, Amirreza Khosravi, Paria Behnam, Abbas Aliaghaei, **Maryam Pirani**, Shabnam Abdi, Mohammad-Amin Abdollahifar. **Andrologia 2021.**

**Ameliorating effects of curcumin-loaded superparamagnetic iron oxide nanoparticles (SPIONs) on the mouse testis exposed to the transient hyperthermia: A molecular and stereological study.** Amirreza Khosravi, Amirhosein Hasani, Kimia Rahimi, Abbas Aliaghaei, **Maryam Pirani**, Nahid Azad, Fahim Ramezani, Atena Tamimi, Paria Behnam, Amir Raooft, Fatemeh Fadaei Fathabadi, Shabnam Abdi, Mohammad-Amin Abdollahifar. **Acta Histochemica .2020.**

**Preclinical and Clinical Applications of Photobiomodulation Therapy in Sperm Motility: A Narrative Review.** Effect of Photobiomodulation Therapy on Sperm Motility. Mahnaz poorhassan Morteza Gholaminejhad Houssein Ahmadi Leila Mehboudi Mahdis Chahar Kameh **Maryam pirani** Gholamreza Hasanzadeh. **Lasers in Medical Sciences. 2022.**

**Effect of Broccoli extract and Doxorubicin combination on the viability and induction of apoptosis in human prostate cancer cell line, LNCap.** **Maryam Pirani**, Hourii sepehri, Aphra khosravi. **2012.**

## **English Abstract:**

**Effect of Broccoli extract and Doxorubicin combination on the viability and induction of apoptosis in human prostate cancer cell line, LNCap.**

**Maryam Pirani**, Houri sepehri, Aphra khosravi. 7-11 Sep 2015, The 22<sup>nd</sup> International Congress of physiology and pharmacology (**Oral presentation**)

- *Member of Iran Embryology Society.*