

## Curriculum Vitae

Updated in July, 2022

- **First Name:** Mahbanoo
- **Last Name:** Farhadi Azar
- **Date of Birth:** 11<sup>th</sup> Aug 1987
- **Office Address:** No.24, Arabi Street, Reproductive Endocrinology Research Center, Research Institute for Endocrine Sciences, Shahid Beheshti University of Medical Sciences, Tehran, Iran.
- **P.O. Box:** 19395-4763
- **Office Phone:** +98(21)22432498 (ext. 137)
- **Cell phone:** +98(912)0215217
- **Email Address:**  
[farhadi.mahbanoo@gmail.com](mailto:farhadi.mahbanoo@gmail.com)  
[farhadiazar@endocrine.ac.ir](mailto:farhadiazar@endocrine.ac.ir)
- **LinkedIn Account:**  
<https://www.linkedin.com/in/mahbanoo-farhadi-azar-b5593b125/>
- **Scopus ID:** 57553071700
- **ORCID ID:** <https://orcid.org/0000-0003-3769-5160>



## EDUCATION

- **In Vitro Fertilization in Mice**  
Practical and theoretical diploma, Royan Institute for Reproductive Biomedicine in Iran (2019).
- **MSc. in Biotechnology**  
Islamic Azad University, Science and Research Branch, Tehran, Iran (2016-2019).  
**MSc. Thesis;** Effects of *Rosa damascena* on reproductive improvement, metabolic parameters, liver function and insulin-like growth factor-1 gene expression in estradiol valerate induced polycystic ovarian syndrome in Wistar rats.  
**GPA;** 18.02
- **BS. in Cellular and molecular**  
Islamic Azad University, Lahijan, Iran (2008-2012).  
**GPA;** 19.40

## PROFESSIONAL EXPERIENCE

- **Researcher**, Reproductive Endocrinology Research Center, Research Institute for Endocrine Sciences, Shahid Beheshti University of Medical Sciences, Tehran, Iran from 2019 to now

## ACADEMIC AWARDS

- Distinguished student of BS. course.
- Selected as the top graduated student of MSc. course.

## SKILLS & ABILITIES

- **Animal Laboratory Experiences;** Animal modeling in polycystic ovary syndrome and Premature ovarian menopause, Dissection, Intraperitoneal injection, Subcutaneous injection, Blood sampling, Gavage, Preparation of smears Histopathology, Bone separation, Brain separation, Behavioral test (Water Maze).
- **Molecular Laboratory Experiences;** DNA, RNA & protein Extraction purification (from blood, tissues & cell line), PCR techniques (RT-PCR, ARMS, Real-Time PCR), RFLP (restriction fragment length polymorphism), Electrophoresis technique (Protein and DNA agarose and polyacrylamide), Western Blotting, DNA Methylation, cDNA Synthesis.
- **Cell Culture Laboratory Experiences;** Preparation of Medium, Recovery of Cryopreserved Cells, Cryopreservation, Media changes, Passaging cells, Transfection and transduction, Cell Counting, Drug Treatment, MTT Assay.
- **Assisted Reproductive Technology (ART);** Microscopy, ICSI, IVF, Blastomere biopsy, Zona hatching, Sperm extraction and capacitation protocol for IVF technique, Mature and immature oocyte extraction for IVF and IVM techniques.
- **Bioinformatics;** Bioinformatics analysis of DNA, RNA, and Protein sequences (Blast, Alignment), Primer design for mutation detection, expression, and methylation.
- **Writing proposal and scientific paper**

## SOFTWARE SKILLS

- **Microsoft Office**, Word, Excel, PowerPoint, Access, Visio.
- **Statistical analysis software**; EndNote, SPSS, GraphPad prism, Mendeley reference manager.
- **Primer Design Soft wares**; Gene runner, Allele ID, Primer3.
- **Bioinformatics analysis soft wares**; REST software, GenEX, Progeny 7.

## WORKSHOP, COURSE & SYMPOSIUM

- In Vitro Fertilization in Mice (practical and theoretical diploma), Royan Institute for Reproductive
- Participation in “**Real-Time PCR**”, practical training course, Pasteur Institute of Iran, Tehran-Iran, 2016.
- Participation in “**PCR Primer Design**”, practical training course, Pasteur Institute of Iran, Tehran-Iran, 2016.
- Participation in “**Genetic Engineering and Molecular Cloning**”, practical training course, Royan Institute of Iran, Tehran-Iran, 2016.
- Participation in “**Principles of Basic Cell Culture**”, practical training course, Pasteur Institute of Iran, Tehran-Iran, 2016.
- Participation in “**Principles of Industrial Cell Culture**”, practical training course, Pasteur Institute of Iran, Tehran-Iran, 2016.
- Participation in “**Cell Culture and Maintenance of IPS in mice**”, practical training course, Royan Institute of Iran, Tehran-Iran, 2016.
- Participation in “**Identification and Isolation of Cancer Stem Cells**”, practical training course, Royan Institute of Iran, Tehran-Iran, 2016.
- Participation in “**Laboratory Animals Experimentation**”, practical training course, Pasteur Institute of Iran, Tehran-Iran, 2016.
- Participation in “**Principles of Bioresearch Methodology**”, practical training course, Pasteur Institute of Iran, Tehran-Iran, 2016.
- Participation in “**Cryobiology symposium of 17<sup>th</sup> Royan International Twin Congress**”, Royan Institute of Iran, Tehran-Iran, 2016.
- Participation in “**18<sup>th</sup> Royan International Congress on Reproductive Biomedicine**”, Royan Institute of Iran, Tehran-Iran, 2017.
- Participation in “**State of ART in advanced fertility treatments**”, Helal Iran Pharmaceutical & Clinical Complex, Tehran-Iran, 2017.
- Participation in “**2<sup>st</sup> International Congress on Endometriosis and Minimally Invasive Gynaecology (EMIG)**”, Avicenna Reasearch Institute, Tehran-Iran, 2017.
- Participation in “**1<sup>st</sup> International Congress of Ianian Personalized Medicine**”, Avicenna Reasearch Institute, Tehran-Iran, 2017.
- Participation in “**Scientific paper writing**”, Research Institute of Endocrine Sciences, Shahid Beheshti University of Medical Sciences, Tehran, Iran; 2019.
- Participation in “**Advanced research methodology**”, Research Institute of Endocrine

## PUBLICATIONS

### ▪ International Papers

1. **Farhadi-Azar M**, Behboudi-Gandevani S\*, Rahmati M, Mahboobifard F, Pouya EK, Tehrani FR, Azizi F. The Prevalence of Polycystic Ovary Syndrome, Its Phenotypes and Cardio-Metabolic Features in a Community Sample of Iranian Population: Tehran Lipid and Glucose Study. *Frontiers in endocrinology*. 2022;13: 825528. **IF: 6.05/Q1**  
<https://www.ncbi.nlm.nih.gov/pmc/articles/PMC8920974/>  
DOI: 10.3389/fendo.2022.825528
2. **Farhadi-Azar M**, Ghahremani M, Mahboobifard F, Noroozadeh M, Yaghmaei P, Tehrani FR\*. Effects of Rosa damascena on reproductive improvement, metabolic parameters, liver function and insulin-like growth factor-1 gene expression in estradiol valerate induced polycystic ovarian syndrome in Wistar rats. *Biomedical Journal*. 2022;21. **IF: 7.89/Q1**  
<https://www.sciencedirect.com/science/article/pii/S2319417022000762>  
DOI: 10.1016/j.bj.2022.05.003
3. Noroozadeh M, Amiri M, **Farhadi-Azar M**, Tehrani FR\*. Bone health in women with polycystic ovary syndrome: A narrative review *Journal of Clinical Densitometry*. 2022;12(22): S1094-6950. **IF: 4.30/Q2**  
<https://www.sciencedirect.com/science/article/abs/pii/S1094695022000117>  
DOI: 10.1016/j.jocd.2022.02.005

### ▪ National Papers

1. Dovom MR, Noroozadeh M, Mosaffa N, Piryaee A, Zadeh-Vakili A, Aabdollahifar MA, Rahmati M, **Farhadi-Azar M**, Tehrani FR\*. Maternal exposure to D-galactose reduces the ovarian reserve in female rat offspring later in life. *International Journal of Endocrinology and Metabolism*. 2022;20(2): e123206. **IF: 3.50/Q3**  
<https://brieflands.com/articles/ijem-123206> DOI: 10.5812/ijem-123206
2. Saei Ghare Naz M, **Farhadi-Azar M**, Tehrani FR\*. Polycystic Ovary Syndrome and Primary Headaches: A Narrative Review. *The Iranian Journal of Obstetrics, Gynecology and Infertility*. 2022; 14. **IF:1.00/Q3**  
[https://ijogi.mums.ac.ir/article\\_19704.html](https://ijogi.mums.ac.ir/article_19704.html) DOI: 10.22038/ijogi.2022.62110.5146

## RESEARCH PROJECTS

1. Effect of Rosa damascena extracts on biochemical and histological parameters and gene expression of IGF-1 in Wistar rat model of polycystic ovary syndrome.
2. Prevalence of Metabolic Syndrome in Women with Polycystic Ovarian Syndrome, Based on Rotterdam Criteria: Tehran Lipid and Glucose Study.
3. Design and Characterization of Mesenchymal Stem Cells Derived Exosomes Loaded With 17-beta Estradiol and Its Therapeutic Effect on a Rat model of premature Ovarian Failure Following Prenatal Galactose Exposure.
4. Bone metabolism in polycystic ovary syndrome: A narrative review.
5. Examination of Perception, cognition, memory, and incidence of Alzheimer's disease in polycystic ovary syndrome.
6. Comparison of Incidence of Alzheimer's disease symptoms in a rat model of polycystic ovary syndrome with controls in premenopausal status.
7. The Examination of Survival of Metabolic Changes in a rat Model of Polycystic Ovary Syndrome from Fertility to Post Menopause periods.
8. Examination of cardiovascular risk factors in men participating in Tehran Lipid and Glucose Study (TLGS) with maternal hyperandrogenemia history.
9. Inducing premature ovarian insufficiency experimental model through in utero exposure to galactose and comparison of the reproductive, metabolic, and immunological characteristics of female first-generation rats with controls.
10. Assessment of bone mass in polycystic ovary syndrome (PCOS) rats compared to controls.
11. Prevalence of male infertility and its affecting factors: Tehran Lipid and Glucose Study.

## MEMBERSHIPS

- Member of the Biotechnology Society of the Islamic Republic of Iran (IRBIC).
- Member of Iranian Society of Embryology & Reproductive Biology (ISERB).
- Member of Universal Scientific Education and Research Network (USERN).
- Member of Iranian Genetics Society (IGS).
- Member of Iranian Society of Physiology and Pharmacology (ISPP).
- Member of Iranian Bioinformatics Society (IBIS).

## REFERENCES

- **Fahimeh Ramezani Tehrani, MD.**  
Professor in Obstetrics and Gynecology, Head, Reproductive Endocrinology Research Center, Research Institute for Endocrine Sciences, Shahid Beheshti University of Medical Sciences, Tehran, Iran.  
[ramezani@endocrine.ac.ir](mailto:ramezani@endocrine.ac.ir)  
[fah.tehrani@gmail.com](mailto:fah.tehrani@gmail.com)  
[framezan@postharvard.edu](mailto:framezan@postharvard.edu)
- **Parichehreh Yaghmaei, PhD.**  
Professor in Physiology, Department of Biology, Science and Research Branch, Islamic Azad University, Tehran, Iran.  
[yaghmaei\\_p@yahoo.com](mailto:yaghmaei_p@yahoo.com)