

**In the name of God**

**Personal Information:**

**Name:** Marefat Ghaffari Novin

**Qualification:** M.D.& PhD

**Sex:** Male

**Marital status:** Married

**Children:** 3

**Nationality:** Iranian

**Date of birth:** March 21, 1965

**Place of birth:** Tehran, Iran

**Work Adresses:**

Infertility and Reproductive Health Research Center,

Cellular and Molecular Biology Research Center and

Biology and Anatomical sciences Dept., Shahid Beheshti University of Medical Sciences,

Tehran, Iran.

**Postal code:**1985717443

**Office phone number:** 021-23872555

**Fax number:** 021 22439976

**Mobile Phone:** 0912 3941810

**E-Mail:**mghaffarin@yahoo.com

**University Education:**

<b>Level</b>	<b>Description</b>	<b>University</b>	<b>Years</b>	<b>Thesis</b>
M.D.	Medical Doctor	Shahid Beheshti University of Medical Sciences, Tehran, Iran	1983-1990	Study of Pneumonia in children hospitalised in Loghman Hospital.
PhD	Molecular Biology of Reproduction (Clinical Embryology)	Faculty of Medicine, University of Sheffield, U.K	1993-1997	A Combined ultrastructural and molecular Biological Study of Human Endometrium in vivo and in vitro: Implication for fertility and implantation.

### Major professional services:

Title	Place	Duration
Editorial Board Member of Medical Journal of Reproduction and Infertility	Avesina Research Institute	Since 1999
Editorial Board Member of Bulletin Scientific Newsletter and Patient Newsletter of Fertility and Infertility	Avesina Research Institute	1998- 2004
Scientific secretary of Forth specialized symposium in: Reproductive Endocrinology and Infertility	Tehran, Iran	February 1999
Scientific secretary of Seventh specialized seminar in: Environmental Factors and Infertility	Tehran, Iran	January 2002
Scientific secretary of ART Seminar	Avesina infertility clinic, Tehran, Iran	January 2005
Scientific secretary of Gamete and embryo donation in infertility treatment	Tehran, Iran	March 2006
Assistant Professor of Faculty of Medicine	Shahed University, Tehran, Iran	January 1998-2000
Assistant Professor of Faculty of Medicine	Tabriz University of Medical Sciences	January 2000-2003
Assistant Professor of Avesina Research Institute	Tehran, Iran	2003-2008
Professor of School of Medicine, Shahid Beheshti University of Medical Sciences, Tehran, Iran	Tehran, Iran	Since 2008
Referee of Iranian Biomedical Journal, Yakhteh, Daneshvar, (Pejouhandeh) Shahid Beheshti Medical Journal, Iranian Journal of Reproductive Medicine and Modarres Journal of Medical Sciences.		Since 1998
Head of Board of Reproductive biology	Ministry of health and education	Since 2012

Board of Directors of the Iranian society of Reproductive Medicine	Ministry of health and education	Since 2016
Board of Directors of the Iranian society of embryology and reproductive biology	Ministry of health and education	Since 2013
Associated editor of International Journal of Women's Health and Reproduction Sciences	University of Saarland, Homburg/Saar, Germany and Tabriz University of Medical Sciences	Since 2013
Editorial Board Member of Iranian Journal of Reproductive Medicine	Iranian society of Reproductive Medicine and Yazd University of Medical Sciences	Since 2014

**Major administrative responsibilities:**

<b>Title</b>	<b>Place</b>	<b>Duration</b>
Vice Chancellor of Ardabil University of Medical Sciences	Ardabil University Of Medical Sciences, Ardabil, Iran	1991-1993
Deputy of Treatment & Drug of Ardabil University of Medical Sciences	Ardabil University Of Medical Sciences, Ardabil, Iran	1991-1993
Deputy of Education of Avesina Research Institute	Avesina Research Center, Tehran, Iran	1998-2000
Specialized upgrading committee of Medical Sciences	Iranian Academic center for Education, Culture & research (ACECR), Tehran, Iran	2004-2007
Director of Avesina Infertility Clinic	Avesina Infertility Clinic, Tehran, Iran	2004-2006
Head of Reproductive Endocrinology Embryology& Department of ARI	Avesina Research Institute (ARI), Tehran, Iran	2000-2007
Head of Reproductive biology teaching (PhD)	Shahid Beheshti University of Medical Sciences	2008 until now
Head of ART lab	ART in Taleghani Hospital Shahid Beheshti University of Medical Sciences	2008 until now
Health tourism	Ministry of health, treatment and education of I.R.Iran	2014 until now
Head of biology and anatomical sciences Dept.	Shahid Beheshti University of Medical Sciences	2017-2021

**Memberships:**

<b>Title</b>	<b>Place</b>	<b>Duration</b>
Member of Iranian Medical council	Tehran, Iran	Since 1990
Member of society of study for fertility (SSF)	UK	Since 1994

Member of Iranian society of Reproductive Medicine	Tehran, Iran	Since 2000
Founding board of Iranian society of embryology and reproductive biology	Tehran, Iran	Since 2012

### Scientific Experiences:

Subject	Place	Year
Embryo Biopsy	Avesina Infertility Clinic, ART in Taleghani Hospital Shahid Beheshti University of Medical Sciences	2004
Assisted Hatching	Avesina Infertility Clinic, ART in Taleghani Hospital Shahid Beheshti University of Medical Sciences	2003
Andrology Laboratory	Infertility Center of Tabriz University of Medical Sciences	Since 1998
Embryology Laboratory: IUI, IVF,GIFT,ZIFT, ICSI	Infertility Center of Tabriz University of Medical Sciences and Avesina Research Institute	Since 1998
Human Embryo & Blastocyst Culture	Infertility Center of Tabriz University of Medical Sciences and Avesina Research Institute	Since 1998
Human Sperm,egg & Embryo freezing	Infertility Center of Tabriz University of Medical Sciences and Avesina Research Institute	Since 1998
ART Consultant	Infertility Center of Tabriz University of Medical Sciences and Avesina Research Institute	Since 1998
Recurrent Miscarriage Treatment	Infertility Center of Tabriz University of Medical Sciences and Avesina Research Institute	Since 1998
Light & Electron Microscopy Techniques	Sheffield University	1993-1997
Tissue Culture Technique	Sheffield University	1993-1997
Reproductive, Endocrinology and Immunology	Sheffield University	1993-1994
Reproduction and Fertility	Sheffield University	1993-1994
Advanced Cell Biology & Cell Membrane	Sheffield University	1993-1994
General Practitioner	Khark Island & Ardabil University of Medical Sciences	1990-1993

### Teaching Experiences:

Subject	Students	Place	Year
Cell physiology, Physiology of Reproductive Endocrinology	Medical and midwifery Students	Faculty of Medicine, Shahed University	1998-2000
Pharmacology of Reproductive Endocrinology	Medical and midwifery Students	Faculty of Medicine, Shahed University	1998-2000
Biochemistry of Hormones	MS and PhD students of Biochemist	Faculty of Medicine, Tabriz University of Medical Sciences	2000-2002
Methodology of Research	MS and PhD students of Biochemist	Faculty of Medicine, Tabriz University of Medical Sciences	2000-2002
Peri-implantation embryology	PhD Students of Histology and embryology	Faculty of Medicine, Tabriz University of Medical Sciences	2000-2002
Cell Culture and its application for Reproductive Medicine	PhD Students of Histology and embryology	Avesina Research Center	2001-2002
The Workshop of IUI	Obstetrician & Gynaecology	Avesina Infertility Clinic	2004,2005,2006
The Workshop of Cell Culture	Medical scientists	Avesina research Center	2006-2007
The Workshop of Sperm preparation for ART	Obstetrician & Gynaecology and biologist	Avesina Infertility Clinic	2006-2007
General Human Embryology	Medical, Dental student and Master student of Anatomical sciences	Shahid Beheshti University of Medical Sciences, Tehran, Iran	Since 2008
Specialized Human Embryology	Medical student	Shahid Beheshti University of Medical Sciences, Tehran, Iran	Since 2008
Cell Biology	Master student of Anatomical sciences	Shahid Beheshti University of Medical Sciences, Tehran, Iran	Since 2008



PGD	PhD student of Reproductive Biology	Shahid Beheshti University of Medical Sciences, Tehran, Iran	Since 2008
Histopathology of Reproduction, Andrology, ART, Cryopreservation, quality control, peri-implantation embryology	PhD student of Reproductive Biology	Shahid Beheshti University of Medical Sciences, Tehran, Iran	Since 2008

### Research projects :

Subject	Granted from	Place	Duration
Ultrastructural study of process of human blastocyst implantation in vitro using polarized endometrial cells	Ministry of Health, Education & Treatment	Avesina Research Institute	1998-2002
Development of human embryo on Fallopian tube polarized cultured cells	Ministry of Health, Education & Treatment	Avesina Research Institute	1998-2002
Morphological study of ovarian stimulation drug effects on human endometrium during early secretory phase	Tabriz Medical University	Tabriz Medical University	2000-2002
Morphological study of ovarian stimulation drug effects on human endometrium during mid secretory phase	Tabriz Medical University	Tabriz Medical University	2000-2002
T-cell receptor BV gene segment usage in blood and endometrium of normal women and women suffering from recurrent spontaneous abortion	Ministry of Health, Education & Treatment	Avesina Research Institute	2000 -2004
Study of freezing effect on human sperm apoptosis and sperm parameters	Tabriz Medical University	Tabriz Medical University	2002-2204
A panel of monoclonal antibodies against antigens of human spermatozoa	National Research Center of Medical Sciences	Avesina Research Institute	1379-83
Evaluation of role and frequency of antizona antibody in unexplained fertility and role of delay ICSI	Iranian Academic center for Education, Culture & research (ACECR)	Avesina Research Institute	1379-83
Study of genital TB involvement in infertile women with tubal factor etiology	Tabriz Medical University	Tabriz Medical University	1382-85
Invasion study of human embryo <i>in vitro</i>	Iranian Academic center for Education, Culture & research (ACECR)	Avesina Research Institute	2002-2005
Study of freezing effect on blastocyst apoptosis	Tabriz Medical University	Tabriz Medical University	2002-2004
Evaluation and determination of human sperm antigens in fertilization process.	Ministry of Health, Education & Treatment	Avesina Research Institute	2004-2005

Study of environmental factors effect on fertility from staff's point of view working on infertility fields in Iran.	Avesina Research Institute	Avesina Research Institute	2002-2003
Evaluation of Jurisprudential and Legal aspects of ovum and embryo transfer and donation in IVF centers of Tehran Province	Iranian Academic center for Education, Culture & research (ACECR)	Avesina Research Institute	2000-2002
Designing an ELISA method for quantitative measurement of Antisperm Anitbody (ASA) in serum, follicular fluid, cervical mucus and seminal Fluid	Ministry of Health, Education & Treatment	Avesina Research Institute	1379-83
Induction of Endometriosis by implantation of endometrial fragments in female rats	Iranian Academic center for Education, Culture & research (ACECR)	Avesina Research Institute	1382-84
Prevalence of mycoplasma hominis & ureaplama urealyticum in infertile women, comparison with their husbands	Faculty of Medicine, Shaded University	Avesina Research Institute	1384-85
Cytotoxic and histopathological effects of ciprofloxacin on testicular tissues and spermatogenesis in rats	Azad University	Avesina Research Institute	1383-85
The consent forms of treatment, surgery, interventional techniques (ICSI/IVF), voluntary termination of treatment	Avesina Research Institute	Avesina Research Institute	1383-84
Cytotoxic effect of aminoglycosides (gentamycin and neomycin) on fertility and function of testicular rats	Azad University	Avesina Research Institute	1384-1385
Chlamydia Trachomatis and male infertility in Tehran	Shahid Beheshti University of Medical Sciences	Avesina Research Institute	1383
CRP serum level and result of ART	Avesina Research Institute	Avesina Research Institute	1383
The comparison between two method of cryopreservation, vitrification and vapour phase on motility, DNA fragmentation and autonomous acrosome .reaction of human spermatozoa	Avesina Research Institute	Avesina Research Institute	1384-1385
Infertile patients DNA banking	Molecular medicine network	Avesina Research Institute	1383

Study of mutation in SYCP3 gene in azoospermic men	Molecular medicine network	Avesina Research Institute	1383-1385
Comparison study of ODF <sub>2</sub> protein in tail of sperm in fertile and infertile with motility and concentration problems	Iranian Academic center for Education, Culture & research (ACECR)	Avesina Research Institute	1384
Study the relationship between sperm function test and outcome of assisted reproductive techniques in couples attending Avesina Research Institute	Iranian Academic center for Education, Culture & research (ACECR)	Avesina Research Institute	1384
Application of Nanoparticle Quantum dots technology In the early diagnosis of ovarian carcinoma and breast cancer	Ministry of Health, Education & Treatment	Avesina Research Institute	2005
Evaluation anti fertility effect of crude of centella asiatica on female and male mice	Iranian Academic center for Education, Culture & research (ACECR)	Avesina Research Institute	1382-85
Effect of Rosmarinus officinalis extract on male reproductive tract in rats.	Iranian Academic center for Education, Culture & research (ACECR)	Avesina Research Institute	1385-86
Design an immuno fluorescent method for detection an apoptotic spermatozoa	Iranian Academic center for Education, Culture & research (ACECR)	Avesina Research Institute	1385-86
Designing of an ELIZA method for quantitative measurement of inhibin B	Iranian Academic center for Education, Culture & research (ACECR)	Avesina Research Institute	1385-86

Study of zona pellucida thickness, volume and area of oocyte in women with female factor and their effect on ART outcome	Avesina Research Institute	Avesina Research clinic	1386-87
The impact of assisted hatching on ART outcome in women with female factor	Avesina Research Institute	Avesina Research clinic	1386-87
Production of induced Pluripotent Cells (iPS) from mesenchymal bone marrow cell	Iranian National Science foundation	Nanotechnology research center, Shahid Beheshti University of Medical Sciences ,Tehran, Iran	2008
Endothelial Nitric Oxide synthase in human testis in obstructive azospermia	Infertility and reproductive health research center	Shahid Beheshti University of Medical Sciences, Tehran, Iran	2009
Endothelial Nitric Oxide synthase in human testis in non obstructive azospermia	Infertility and reproductive health research center	Shahid Beheshti University of Medical Sciences, Tehran, Iran	2009
Gene and protein expression of endothelial Nitric Oxide synthase in human endometrium in endometriosis	Molecular and cell biology research center	Shahid Beheshti University of Medical Sciences, Tehran, Iran	2009
Gene and protein expression of endothelial Nitric Oxide synthase in human endometrium in recurrent miscarriage	Infertility and reproductive health research center	Shahid Beheshti University of Medical Sciences, Tehran, Iran	2009

Gene and protein expression of endothelial Nitric Oxide synthase in human uterine myoma	Infertility and reproductive health research center	Shahid Beheshti University of Medical Sciences ,Tehran, Iran	2009
Expression of Glycogen synthase kinase 3- $\beta$ (GSK3- $\beta$ ) gene in azoospermic men	Iran National Science Foundation (INSF)	Shahid Beheshti University of Medical Sciences, Tehran, Iran	2013
The expression of endothelial nitric oxide synthase (eNOS) in the Fallopian tubes of women with ectopic pregnancy	Molecular and cell biology research center	Shahid Beheshti University of Medical Sciences, Tehran, Iran	2012
Investigation of interleukin6 receptor ,gp130 gene expression in Fallopian tubes of women with ectopic pregnancy	Faculty of Medicine	Shahid Beheshti University of Medical Sciences, Tehran, Iran	2012
Investigation The Expression of Progesterone Receptor gene, PR $\alpha$ , PR $\beta$ and Two of Their Regulators, FKBP51, FKBP52,in endometrial tissue of women with Recurrent Implantation Failure	Faculty of Medicine	Shahid Beheshti University of Medical Sciences, Tehran, Iran	2012
Investigation Gene Expression of Mitochondrial Transcription Factors and metabolic (NRF1,COX1) in oocyte maturation(MII) after in vitro maturation of immature oocyte in patient women with polycystic ovarian syndrome( PCOs	Faculty of Medicine and Sarem Hospital	Shahid Beheshti University of Medical Sciences, Tehran, Iran	2013
Investigation gene Expression of Mitochondrial Transcription Factors and metabolic (NRF1,COX1) inprocess of oocyte maturation in normal women	Faculty of Medicine and Sarem Hospital	Shahid Beheshti University of Medical Sciences, Tehran, Iran	2013

Investigation of semen fructose & alpha glucosidase enzyme concentration & routine semen parameters in patients with isolated hypospadias	Molecular and cell biology research center	Shahid Beheshti University of Medical Sciences, Tehran, Iran	2013
Investigation of semen zinc concentration and sperm chromatin dispersion in patients with isolated hypospadias	Infertility and reproductive health research center	Shahid Beheshti University of Medical Sciences, Tehran, Iran	2013
Survey of global DNA methylation, H3K9 and H4K12 acetylation in PCOS Mouse Model Oocytes	Molecular and cell biology research center	Shahid Beheshti University of Medical Sciences, Tehran, Iran	2014
Examination of the effect of Thymoquinone on maturation of oocytes in a mouse model of polycystic ovary syndrome	Faculty of Medicine	Shahid Beheshti University of Medical Sciences, Tehran, Iran	2015
Effect of Quercetin on In vitro Maturation Rate and Apoptosis of Immature Oocytes in PCOS Mouse Model	Molecular and cell biology research center	Shahid Beheshti University of Medical Sciences, Tehran, Iran	2015
Effects of calcium ionophore on human oocyte in vitro maturation outcome, fertilization rate and embryo development	Molecular and cell biology research center	Shahid Beheshti University of Medical Sciences, Tehran, Iran	2016
Effect of gold on male reproductive physiology	Students Research Committee	Shahid Beheshti University of Medical Sciences, Tehran, Iran	2016

Effect of Curcumin on prevention of reduction ovarian reserve and embryo development during aging in Mouse	Molecular and cell biology research center	Shahid Beheshti University of Medical Sciences, Tehran, Iran	2018
Effects of calcium ionophore on oxidative stress and apoptosis in human oocyte after in vitro maturation	Molecular and cell biology research center	Shahid Beheshti University of Medical Sciences, Tehran, Iran	2018
Effect of Curcumin on fertilization rate and Apoptosis of mature Oocytes during aging in Mouse	Molecular and cell biology research center	Shahid Beheshti University of Medical Sciences, Tehran, Iran	2019
The study of differentiation of mouse embryonic stem cell into male germ cells utilizing gelatin nanofibrous 3D scaffold and co-culture with Sertoli cells	Molecular and cell biology research center	Shahid Beheshti University of Medical Sciences, Tehran, Iran	2019
The effect of L-Carnitin and MitoQ on mitochondrial membrane potential change, nuclear and cytoplasmic maturation in mouse oocyte	Molecular and cell biology research center	Shahid Beheshti University of Medical Sciences, Tehran, Iran	2019
Investigation of genes expression (PTGS2, CAMK1D, EFNB2, AREG and miR-26-5p) in cumulus cells and follicular fluid with the success of pregnancy in recurrent implantation failure and the efficacy of healthy follicular fluid treatment on it	Faculty of Medicine	Shahid Beheshti University of Medical Sciences, Tehran, Iran	2019
Fabrication of gelatin nanofibrous scaffold and evaluation of its biocompatibility with sertoli and embryonic stem cells	Molecular and cell biology research center	Shahid Beheshti University of Medical Sciences, Tehran, Iran	2019



The effect of Fisetin on sperm parameters, histology structure and oxidative stress of adult male mice under scrotal hyperthermia	Faculty of Medicine	Shahid Beheshti University of Medical Sciences, Tehran, Iran	2020
Effect of Pre and Post Cryopreservation Irradiation of Low-Power Infrared Laser on Improving Functional Parameters of Human Sperm	Faculty of Medicine	Shahid Beheshti University of Medical Sciences, Tehran, Iran	2020
Evaluation of the Effect of Post Cryopreservation Irradiation of Low-Power Infrared Laser on Improving Functional Parameters of Human Sperm	Men's Health and Reproductive Health Research Center	Shahid Beheshti University of Medical Sciences, Tehran, Iran	2021

## Publications:

### A. Papers:

Document type ↓	Documents ↑
Article	100
Review	3
Erratum	1
Letter	1

1. Safian F, Bayat M, Jajarmi V, Abdollahifar MA, Nazarian H, Mofarahe ZS, et al. - Comparative Effect of Photobiomodulation on Human Semen Samples Pre- and Post-Cryopreservation. 2022;- 29(- 5):- 1470.
2. Shirzeyli MH, Eini F, Shirzeyli FH, Majd SA, Ghahremani M, Joupari MD, et al. - Assessment of mitochondrial function and developmental potential of mouse oocytes after mitoquinone supplementation during vitrification. 2021;- 60(- 4):- 395.
3. Safian F, **Ghaffari Novin M**, Nazarian H, Shams Mofarahe Z, Abdollahifar MA, Jajarmi V, et al. - Photobiomodulation preconditioned human semen protects sperm cells against detrimental effects of cryopreservation. 2021;- 98:- 244.
4. Pirani M, **Novin MG**, Abdollahifar MA, Piryaei A, Kuroshli Z, Mofarahe ZS. - Protective Effects of Fisetin in the Mice Induced by Long-Term Scrotal Hyperthermia. 2021;- 28(- 11):- 3136.
5. Paktinat S, Esfandyari S, Karamian A, Koochaki A, Asadirad A, **Ghaffari Novin M**, et al. - Conditioned medium derived from seminal extracellular vesicles-exposed endometrial stromal cells induces inflammatory cytokine secretion by macrophages. 2021;- 262:- 181.
6. Oskouei BS, Zargari S, Shahabi P, **Novin MG**, Pashaiasl M. - Design and microfabrication of an on-chip oocyte maturation system for reduction of apoptosis. 2021;- 23(- 1):- 39.
7. Mehraban Z, **Gaffari Novin M**, Golmohammadi MG, Nazarian H. - Effect of Ceratonia siliqua L. extract on DNA Fragmentation of Sperm in Adult Male Mice Treated with Cyclophosphamide. 2021;- 28(- 4):- 981.
8. Maleki N, Karami F, Bagheri RB, **Novin MG**. - Evaluation of biological characteristics and differentiation potential of human placenta-derived Mesenchymal stem cells in COVID-19 positive versus unaffected patients. 2021;- 16(- 1):- 22.
9. Khaleghi S, Fathi R, Eivazkhani F, Moini A, **Novin MG**, Ebrahimi B, et al. - Two-Decade Experience of Royan Institute in Obtaining

Mature Oocyte from Cryopreserved Ovarian Tissue: In Vitro and In Vivo Approaches. 2021.

10. Kazemi M, Jajarmi V, Nazarian H, **Ghaffari Novin M**, Salehpour S, Piryaee A, et al. - Culture strategy as a modulator of target assessments: Functionality of suspension versus hanging drop-derived choriocarcinoma spheroids as in vitro model of embryo implantation. 2021;- 122(- 9):- 1206.
11. Karamian A, Paktinat S, Esfandyari S, Nazarian H, Ziai SA, Zarnani AH, et al. - Pyrvinium pamoate induces in-vitro suppression of IL-6 and IL-8 produced by human endometriotic stromal cells. 2021;- 40(- 4):- 660.
12. Hosseinirad H, **Novin MG**, Hosseini S, Nazarian H, Safaei Z, Hashemi T, et al. - Evaluation of Expression and Phosphorylation of Progesterone Receptor in Endometrial Stromal Cells of Patients with Recurrent Implantation Failure Compared to Healthy Fertile Women. 2021;- 28(- 5):- 1465.
13. Fazeli E, Hosseini A, Heidari MH, Farifteh-Nobijari F, Salehi M, Abbaszadeh HA, et al. - Meiosis resumption of immature human oocytes following treatment with calcium ionophore in vitro. 2021;- 23(- 1):- 118.
14. Eini F, kutenaei MA, Shirzeyli MH, Dastjerdi ZS, Omid M, **Novin MG**. - Normal seminal plasma could preserve human spermatozoa against cryopreservation damages in Oligozoospermic patients. 2021;- 22(- 1).
15. Dadras S, Bayat M, **Novin MG**, Nazarian H, Raoofi A, Abdi S, et al. - Diabetes mellitus induced impairment of sperm parameters in mice: A stereological method. 2021;- 25(- 5):- 583.
16. Azizi E, **Ghaffari Novin M**, Najji M, Amidi F, Hosseinirad H, Shams Mofarahe Z. - Effect of vitrification on biogenesis pathway and expression of development-related microRNAs in preimplantation mouse embryos. 2021;- 22(- 1):- 114.
17. Vardiani M, **Ghaffari Novin M**, Koruji M, Nazarian H, Goossens E, Aghaei A, et al. - Gelatin Electrospun Mat as a Potential Co-culture System for in Vitro Production of Sperm Cells from Embryonic Stem Cells. 2020;- 6(- 10):- 5832.
18. Shirzeyli MH, Amidi F, Shamsara M, Nazarian H, Eini F, Shirzeyli FH, et al. - Exposing mouse oocytes to mitoq during in vitro maturation improves maturation and developmental competence. 2020;- 18(- 3):- 21.
19. Safian F, **Ghaffari Novin M**, Karimi M, Kazemi M, Zare F, Ghoreishi SK, et al. - Photobiomodulation with 810 nm Wavelengths Improves Human Sperms' Motility and Viability In Vitro. 2020;- 38(- 4):- 231.
20. Sadeghpour S, Ghasemnejad Berenji M, Nazarian H, Ghasemnejad T, Nematollahi MH, Abroon S, et al. - Effects of treatment with hydroxychloroquine on the modulation of Th17/Treg ratio and pregnancy outcomes in women with recurrent implantation failure: clinical trial. 2020;- 42(- 6):- 642.
21. Rahbar S, Pashaiasl M, Ezzati M, Ahmadi AsrBadr Y, Mohammadi-Dehcheshmeh M, Mohammadi SA, et al. - MicroRNA-based regulatory circuit involved in sperm infertility. 2020;- 52(- 1).
22. Mofarahe ZS, **Novin MG**, Salehnia M. - Folliculogenesis-associated genes expression in human vitrified ovarian tissue after xenotransplantation in  $\gamma$ -irradiated mice. 2020;- 22(- 3):- 357.
23. Mehraban Z, **Novin MG**, Golmohammadi M, Sagha M, Ziai SA, Abdollahifar MA, et al. - Protective effect of gallic acid on testicular tissue, sperm parameters, and DNA fragmentation against toxicity induced by cyclophosphamide in adult NMRI mice. 2020;- 17(- 1):- 85.
24. Karimi S, Tabatabaei SN, Gutleb AC, **Ghaffari Novin M**, Ebrahimzadeh-Bideskan A, Shams Mofarahe Z. - The effect of PEGylated iron oxide nanoparticles on sheep ovarian tissue: An ex-vivo nanosafety study. 2020;- 6(- 9).

25. Karamian A, Nazarian H, Ziai SA, Zarnani AH, Salehpour S, Paktinat S, et al. - Pyrvinium pamoate inhibits proliferation and invasion of human endometriotic stromal cells. 2020;- 39(- 5):- 672.
26. Hosseinirad H, **Novin MG**, Hosseini S, Nazarian H, Amidi F, Paktinat S, et al. - Effect of 1,25(OH)<sub>2</sub>-vitamin D<sub>3</sub> on expression and phosphorylation of progesterone receptor in cultured endometrial stromal cells of patients with repeated implantation failure. 2020;- 122(- 2).
27. Hosseini M, Salehpour S, **Ghaffari Novin M**, Shams Mofarahe Z, Abdollahifar MA, Piryaee A. - Improvement of in situ Follicular Activation and Early Development in Cryopreserved Human Ovarian Cortical Tissue by Co-Culturing with Mesenchymal Stem Cells. 2020;- 208(- 1-2):- 58.
28. Dehdehi L, **Novin MG**, Sadeghi Y, Abdollahifar MA, Ziai SA, Nazarian H. - Chronic stress diminishes the oocyte quality and in vitro embryonic development in maternally separated mice. 2020;- 8(- 1):- 36.
29. Bahrami-Asl Z, Farzadi L, Fattahi A, Yousefi M, Quinonero A, Hakimi P, et al. - Tacrolimus improves the implantation rate in patients with elevated Th1/2 helper cell ratio and repeated implantation failure (RIF). 2020;- 80(- 8):- 862.
30. Azizi E, **Ghaffari Novin M**, Naji M, Amidi F, Shams Mofarahe Z. - Does in vitro fertilization affect the expression of miRNAs and their biogenesis pathway in preimplantation mouse embryos? 2020;- 112(- 1):- 70.
31. Azami SH, Nazarian H, Abdollahifar MA, Allahbakhshian-Farsani M, Banihosseini SZ, **Novin MG**. - Curcumin delays oocyte apoptosis through overexpression of BCL-2 gene in young and middle-aged mouse models. 2020;- 8(- 1):- 60.
32. Abizadeh M, **Novin MG**, Amidi F, Ziaei SA, Abdollahifar MA, Nazarian H. - Potential of Auraptene in Improvement of Oocyte Maturation, Fertilization Rate, and Inflammation in Polycystic Ovary Syndrome Mouse Model. 2020;- 27(- 9):- 1751.
33. Vardiani M, Gholipourmalekabadi M, **Ghaffari Novin M**, Koruji M, Ghasemi Hamidabadi H, Salimi M, et al. - Three-dimensional electrospun gelatin scaffold coseeded with embryonic stem cells and sertoli cells: A promising substrate for in vitro coculture system. 2019;- 120(- 8):- 12518.
34. Tarokh M, **Novin MG**, Poordast T, Tavana Z, Nazarian H, Norouzian M, et al. - Serum and peritoneal fluid cytokine profiles in infertile women with endometriosis. 2019;- 16(- 2):- 162.
35. Salehi M, Afarinesh MR, Haghpanah T, **Ghaffari Novin M**, Farifteh F. - Impact of sperm DNA fragmentation on ICSI outcome and incidence of apoptosis of human pre-implantation embryos obtained from in vitro matured MII oocytes. 2019;- 510(- 1):- 115.
36. Paktinat S, Hashemi SM, **Ghaffari Novin M**, Mohammadi-Yeganeh S, Salehpour S, Karamian A, et al. - Seminal exosomes induce interleukin-6 and interleukin-8 secretion by human endometrial stromal cells. 2019;- 235:- 76.
37. Nazarian H, Azad N, Nazari L, Piryaee A, Heidari MH, Masteri-Farahani R, et al. - Effect of artificial oocyte activation on intracytoplasmic sperm injection outcomes in patients with lower percentage of sperm containing phospholipase C $\zeta$ : A randomized clinical trial. 2019;- 20(- 1):- 9.
38. Naseri F, Hosseini S, **Ghaffari Novin M**, Hosseini A, Heidari MH, Salehi M. - Does blastomere removal alter the expression level of miR-Let7a and its target genes following mouse embryo biopsy? 2019;- 120(- 6):- 9436.
39. Mohammadzadeh E, Mirzapour T, Nowroozi MR, Nazarian H, Piryaee A, Alipour F, et al. - Differentiation of spermatogonial stem cells by soft agar three-dimensional culture system. 2019;- 47(- 1):- 1781.
40. Mehraban Z, **Ghaffari Novin M**, Golmohammadi MG, Sagha M, Pouriran K, Nazarian H. - Protective effect of gallic acid on apoptosis

of sperm and in vitro fertilization in adult male mice treated with cyclophosphamide. 2019;- 120(- 10):- 17257.

41. Ghazifard A, Salehi M, **Novin MG**, Bandehpour M, Keshavarzi S, Omrani VF, et al. - Anacardic acid reduces acetylation of H4K12 in mouse oocytes during vitrification. 2019;- 20(- 4):- 558.
42. Eini F, Bidadkosh A, Nazarian H, Piryaee A, **Ghaffari Novin M**, Joharchi K. - Thymoquinone reduces intracytoplasmic oxidative stress and improves epigenetic modification in polycystic ovary syndrome mice oocytes, during in-vitro maturation. 2019;- 86(- 8):- 1066.
43. Dorfeshan P, **Novin MG**, Salehi M, Farifteh F. - Expression of miR-302 in human embryo derived from in-vitro matured oocyte. 2019;- 17(- 6):- 412.
44. Azami SH, Nazarian H, Abdollahifar MA, Eini F, Farsani MA, **Novin MG**. - The antioxidant curcumin postpones ovarian aging in young and middle-aged mice. 2019;- 32(- 3):- 303.
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**B. Books:**

<b>Authors</b>	<b>Title</b>	<b>Year</b>	<b>Publisher</b>	<b>ISBN</b>
Arefi S. Jeddi Tehrani M. <b>Ghaffari Novin M.</b> and Sadeghi	New edition in recurrent abortion syndrome	2003	Avesina Research Institute and Timorzadeh	
Arefi S., Mohammad mehdi A., Naser J., Heidari M., Sadeghi M., Sadri H., <b>Ghaffari Novin M.</b> , Mohammadzadeh A., Maleki H.,	Assisted Reproduction Laboratory	2004	Avesina Research Institute	
Khashavi Z, Modaresi M, <b>Ghaffari Novin M</b> , Naghavi B, Akhondi M, Aflatoonian	Reproductive Biotechnology	2005	Avesina Research Institute	
<b>Faesi, Ghaffari Novin M</b> , Darabi	ART	2014	Tabriz	

<b>Ghaffari Novin M,</b>	Atlas of clinical embryology	2016	Shahid Beheshti University of Medical sciences	
Saremi A. and <b>Ghaffari Novin M</b>	Assisted Reproductive technology	2015	Sarem infertility center	
<b>Ghaffari Novin M and et al.</b>	Guidline of ART and Andrology	2017	Shahid Beheshti university of Medical sciences	
<b>Ghaffari Novin M and et al.</b>	ART and infection disease	2018	Shahid Beheshti university of Medical sciences	
<b>Ghaffari Novin M and et al.</b>	Role of male factors in repeated implantation failure and recurrent miscarriage	2018	Shahid Beheshti university of Medical sciences	
<b>Ghaffari Novin M and et al.</b>	Troubleshooting and problem solving in the ivf laboratory	2019	Shahid Beheshti university of Medical sciences	

### C. Abstracts (in journals & Conference Presentations):

Authors	Title	Year	Journal	Issue No .	Pages
M. Ghaffari, M.A. Warren	Leukemia Inhibitory Factors in Human Endometrium <i>in vivo</i> and <i>in vitro</i> .	1996 Belfast, UK	Journal of Anatomy	188	255
M. Ghaffari, M.A. Warren	Some Effects of Leukemia Inhibitory Factor Supplementation on the Ultrastructure of Human Polarized Endometrial Epithelial Cell <i>in vivo</i> .	1997 London, UK	Journal of Reproduction and fertility	20	13
M. Ghaffari, M.A. Warren	Leukemia Inhibitory Factor mRNA in Human Reproductive Tract <i>in vivo</i> and the Effects of Steroid Hormone Supplementation on Endometrial Cells <i>in vivo</i> .	1997 London, UK	Journal of Reproduction and fertility	20	13
M. Ghaffari	Important factors in human implantation. Third Seminar in Advanced infertility Diagnosis & Treatment.	1997 Tehran, Iran	3 <sup>rd</sup> Seminar and 5 <sup>ed</sup> Workshop on Treatment of Infertility, Royan Institute	Abstract book	27
M. Ghaffari	Assisted Reproductive Technology.	1998 Tehran, Iran	First specialized fertility and infertility symposium in Legal-jurisprudential aspects of egg and embryo donation, ARC	Abstract book	3

<b>M. Ghaffari, M. Akhondi, M.A. Warren.</b>	Effects of Steroid Hormone Supplementation on Ultrastructure and Function of Human Polarized Endometrial Epithelial Cells <i>in vitro</i> .	1999, Sharm El Sheikh – <b>Egypt</b>	Middle East Fertility Society Journal		16
<b>M. Ghaffari</b>	Pathophysiology of recurrent spontaneous abortion.	1999 Tehran, Iran	Second specialized fertility and infertility symposium: Immunological factors in recurrent spontaneous abortion, ARC	Abstract book	16
<b>M. Ghaffari</b>	Infection and ART.	1999 Tehran, Iran	Third specialized fertility and infertility symposium: Infection and Infertility, ARC	Abstract book	20
<b>M. Ghaffari</b>	Luteal Phase Defect and Ovulation Induction.	1999 Tehran, Iran	Forth specialized fertility and infertility symposium in Reproductive Endocrinology and Infertility, ARC	Abstract book	22
<b>M. Ghaffari and M. A. Warren.</b>	Some effects of artificial ECM on function and morphology of human endometrial cells <i>in vitro</i> .	1999 Tehran, Iran	14 <sup>th</sup> Iranian Congress of Physiology and Pharmacology	Abstract book	170
<b>M. Ghaffari, M. Akhondi, M.A. Warren, M. Nouri.</b>	Effects of Artificial Extracellular Matrix on Function and Morphology of Human Endometrial Epithelial cells <i>in vitro</i>	2000 ESHRE Bologna, <b>Italy</b>	Human Reproduction	Vol.15	199

<b>M. Ghaffari</b>	Gamete and Embryo maturation <i>in vitro</i> .	2000 Tehran, Iran	Fifth specialized fertility and infertility symposium: Genetic and Biotechnology of Reproduction. ARC	Abstract book	16
<b>M. Ghaffari</b>	Genetic and Reproduction	2000 Arabil, Iran	Seminar of Genetic in Medicine	Abstract book	
<b>M. Ghaffari</b> and M. Nouri,	Effects of steroid hormones on ultrastructure and function of human postmenopausal endometrial epithelial cells <i>in vitro</i> .	2000 DC, <b>USA</b>	XVI FIGO world Congress, International journal of Gynaecology & Obstetrics		14
<b>M. Ghaffari</b>	Recurrent spontaneous abortion. Specialized seminar for Obstetrics and Gynaecology	2001 Tabriz, Iran	Specialized seminar for Obstetrics and Gynaecology		
<b>M. Ghaffari</b> and et al.,	Effects of Matrigel on function and morphology of human postmenopausal endometrial epithelial cells <i>in vitro</i> .	2001 Lausanne <b>Swaziland</b>	Human Reproduction	Vol.16	178
M. Nouri, L. Mettler, <b>M. Ghaffari</b> and et al.,	Down regulation of estrogen and progesterone by IL-6 in human granulosa cell culture.	2001 Yazd, Iran	The 9 <sup>th</sup> Iranian Congress of Fertility & Infertility	Abstract book	84
A. Salmassi, L. Mettler, <b>M.Ghaffari</b> and et al.,	Detection of M-CSF and its receptor on human granulosa cells.	2001 Yazd, Iran.	The 9 <sup>th</sup> Iranian Congress of Fertility & Infertility	Abstract book	93

<b>M. Ghaffari,</b>	Environmental factors and reproductive health.	2002 Tehran, Iran	Specialized seminar on Environmental factors and infertility	Abstract book	11
<b>M. Ghaffari.</b>	Recurrent spontaneous abortion.	2002 Tabriz, Iran	Specialized seminar for Obstetrics and Gynaecology		
Akhondi M.A., <b>Ghaffari M.,</b> Sadri Ardakani H. and et al.	Environmental Factors and Infertility from viewpoint of infertility specialist.	2002 Tehran, Iran	Seventh specialized seminar in: Environmental Factors and Infertility. ARC	Abstract book	12
Farzadi L., <b>Ghaffari M.</b> and et al.,	Correlation study of insulin-like growth factor, prostatic-specific antigen and male fertility factors.	2002 Montreal, <b>Canada</b>	11 <sup>th</sup> world congress on human reproduction,	Abstract book	P-10
Nouri M., <b>Ghaffari M</b> and et al.,	Study of sperm DNA oxidative damage in male infertility.	2002 Montreal, <b>Canada</b>	11 <sup>th</sup> world congress on human reproduction	Abstract book	P-11
<b>Ghaffari M and et al.,</b>	Leukaemia inhibitory factor in human postmenopausal endometrial and Fallopian tube cells <i>in vivo</i> and <i>in vitro</i> .	2002 Montreal, <b>Canada</b>	11 <sup>th</sup> world congress on human reproduction	Abstract book	P-012
Ghasemzadeh A, <b>Ghaffari M</b> and et al.,	Comparison of clomiphene citrate alone with clomiphene citrate plus human menopausal gonadotrophin in intrauterine insemination.	2002 Montreal, <b>Canada</b>	11 <sup>th</sup> world congress on human reproduction	Abstract book	P-027

<b>Ghaffari M.,</b> Akhondi M. and Heidari M.	Matrigel enhances in vitro blastocyst formation in human embryos.	2002 Cambridge <b>UK</b>	6 <sup>th</sup> INTERNATIONAL CONGRESS on THE CELL BIOLOGY OF REPRODUCTION	Abstract book	
<b>Ghaffari M.</b>	Development of Human Embryo	2003 Kermanshah Iran	Abortion seminar	Medical Journal Of Reproduction and Infertility, suppl.1	21-22
Jafarzadeh M., <b>Ghaffari M.,</b> and M. G. Seyed Fatemi,	The Attitude of Iranian Law to Egg Donation: Present Situation and Future Prospects	7 Feb - 10 Feb 2003, London, <b>UK</b>	1st International Conference on Egg Donation	Abstract book	
M. G. Seyed Fatemi,. Jafarzadeh M., and <b>Ghaffari</b> <b>M.,</b>	Muslim's View on Moral Aspects of Patentability of Human Embryo	28 - 29 March 2003 University of Cambridge, <b>UK</b>	Workshop on The Bioethical Issues of Intellectual Property Rights , Intellectual Property Unit	Abstract book	
<b>Ghaffari M.,</b> and et al.,	CO-CULTURE OF HUMAN EMBRYOS WITH POLARISED AND UNPOLARISED FALLOPIAN TUBE EPITHELIAL CELLS	24. – 27. April 2003 Berlin, <b>Germany</b>	4 <sup>th</sup> World Congress on Controversies in Obstetrics, Gynaecology & Infertility	Abstract book	

Shahnazi V. and <b>Ghaffari M.,</b>	MORPHOMETRIC STUDY OF THE EFFECTS OF GNRH ANALOGUE/HMG/HCG ON ULTURA STRUCTURE OF HUMAN ENDOMETRIAL EPITHELIUM IN THE EARLY LUTEAL PHASE.	24. – 27. April 2003 Berlin, <b>Germany</b>	4 <sup>th</sup> World Congress on Controversies in Obstetrics, Gynaecology & Infertility	Abstract book	
Rezaei A and <b>Ghaffari M.,</b>	EFFECTS OF DIFFERENT CULTURE MEDIA ON FALLOPIAN TUBE EPITHELIAL CELL AND HUMAN EMBRYO DEVELOPMENT	24. – 27. April 2003 Berlin, <b>Germany</b>	4th World Congress on Controversies in Obstetrics, Gynaecology & Infertility	Abstract book	
<b>Ghaffari M.,</b>	Environmental factors and recurrent miscarriage	28 – 30 May 2003 Tehran, Iran	1st Congress of fertility and infertility society	Abstract book	
Nouri M., <b>Ghaffari M.,</b>	MORPHOMETIC STUDY OF GnRH ANALOGUE/hMG/hCG EFFECTS ON ULTRASTRUCTURE OF HUMAN ENDOMETRIAL EPITHELIUM IN EARLY LUTEAL PHASE	27-29 May 2004, <b>Bolona,</b> <b>Italy</b>	Fourth World Congress on Ovulation Induction from Anovulation to Assisted Reproduction	Abstract book	56
<b>Ghaffari M.,</b>	MORPHOMETRICAL STUDY OF OVULATION INDUCTION EFFECTS WITH LONG PROTOCOLS ON ULTRASTRUCTURE OF HUMAN ENDOMETRIAL EPITHELIUM AT THE TIME OF IMPLANTATION WINDOW	27-29 May 2004, <b>Bolona,</b> <b>Italy</b>	Fourth World Congress on Ovulation Induction from Anovulation to Assisted Reproduction	Abstract book	62
<b>M. Ghaffari,</b> Tahmineh Pirouvi, Jafar Soleimani Rad	The effect of vitrification on sperm membrane damage in fertile and infertile men	14-17 April 2005, <b>Athens, Greece</b>	7th World Congress on Controversies in Obstetrics, Gynecology & Infertility	Abstract book	A26



Naser A.Jannti, <b>M. Ghaffari</b> , T. Pierovi, J. Soleimani Rad	Effect of vitrification on fertilizing capacity of spermatozoa in fertile and infertile men	14-17 April 2005 <b>Athens, Greece</b>	7th World Congress on Controversies in Obstetrics, Gynecology & Infertility	Abstract book	A64
M. Nouri, <b>M. Ghaffari</b> , V. Shahnazi	Some effects of Artificial Extra cellular matrix on function and morphology of human endometrial epithelial cells in vitro	14-17 April 2005 <b>Athens, Greece</b>	7th World Congress on Controversies in Obstetrics, Gynecology & Infertility	Abstract book	A64
Heidari M, Partou Azar A, Chazi Khansari M, <b>Ghaffari M.</b>	Study of Testicular Cytotoxicity ofloxacin in rats	6-8 December 2004, Iran	8 <sup>th</sup> Iranian congress of toxicology	Abstract book	99
Zarnani A, Mohammadzadeh A, <b>Ghaffari M</b> , et al.	A Reported case of recurrent Hydropase caused by mother Aloo immunization against kell Antigen	2005 Tehran, Iran	Iranian congress of Obs. & Gyn.	Abstract book	99
Arefi S, <b>Ghaffari Novin, M.</b> and et al.,	Value of hysteroscopy after repeated IVF failures	1384, Tehran, Iran	Six international conference on obs and gyn	Abstract book	
Arefi S, <b>Ghaffari Novin, M.</b> and et al.,	Recurrent spontaneous abortions and genetics factors	1385, Tehran, Iran	Second conference on genetic and disease		

<b>Ghaffari Novin, M.</b>	Medical Death	2006 Tehran, Iran	International Congress on Attitudes towards Death in the Context of Social and Technological Changes: Challenges for Muslims and Christians	Abstract book	36
<b>Ghaffari Novin, M.</b>	Chlamydia and ART	2006 Tehran, Iran	Workshop on Chlamydia and Reproduction	Abstract booklet	29
<b>Ghaffari Novin, M.</b>	MORPHOMETIC STUDY OF GNRH ANALOGUE/HMG/HCG EFFECTS ON ULTRASTRUCTURE OF HUMAN ENDOMETRIAL EPITHELIUM IN EARLY AND MID LUTEAL PHASE	2006 Varanasi, <b>India</b>	Indo-French infertility congress		
<b>Ghaffari Novin, M.</b>	STUDY OF ATTACHMENT AND INVASION OF HUMAN EMBRYO <i>IN VITRO</i>	2006, <b>Malaysia</b>	XVIII FIGO World Congress of Gynaecology & Obstetrics.		
<b>Ghaffari Novin, M. and et al.,</b>	Effects of Ciprofloxacin on testis apoptosis and sperm parameters in rat	2006 August 27 to September 1, Ljubljana, <b>Slovenia</b>	The 44th scientific meeting of the International Association of Forensic Toxicologists (TIAFT)		
<b>Ghaffari Novin, M. and et al.,</b>	Extracellular matrix enhances human blastocyst formation and hatching in culture	2007, Tehran, Iran	The 13 <sup>th</sup> Iranian congress of fertility and infertility		173
Heidari M., <b>Ghaffari Novin, M. and et al.,</b>	Effect of Centella Asiatica on sperm and testis in rat	2007, Tehran, Iran	The 13 <sup>th</sup> Iranian congress of fertility and infertility		122

<b>Ghaffari Novin M.</b>	Human Sperm cryopreservation	2007, Tehran, Iran	The 13 <sup>th</sup> Iranian congress of fertility and infertility		122
<b>Ghaffari Novin M.</b>	Endometrial factors in recurrent miscarriage	2007, Tehran, Iran	Recurrent miscarriage workshop		
Heidari M., <b>Ghaffari Novin, M.</b> and et al.,	Study of anti fertility effect of crude extract of Centella Asiatica in male mice	2007, Siraz, Iran	The 9 <sup>th</sup> Iranian toxicology congress		
Mohammadzadeh, A; Heidari, M ; Soltanghoraiee, H ;Jeddi-Tehrani, M; <b>Ghaffari Novin</b> , M ;Akhondi, M.A ;Zeraaty ,H ; Mohammadzadeh, F.	Evaluation of the impressive effect of Pentoxifylline on WBC count in serum and peritoneal fluid and also the growth of endometriotic implants in female rats.	the 2nd International of Student Award and Congress in Reproductive Medicine, Yazd, Iran, 11-13 May, 2007	Iranian Journal of Reproductive Medicine,	Vol5, Sup.1, Spring 2007	55
Khaki A., <b>Ghaffari Novin M.</b> , and et al.,	The effects of aminoglycosides (gentamicin, neomycin, streptomycin) and fluoroquinolones (ofloxacin) antibiotics on apoptosis of rat testis tissue using Tunnel.	Royan international Research Award and Congress, 2007, Tehran, Iran	Yakhtheh Medical Journal	Vol. 9 Sup. 1	15
Ameri F., <b>Ghaffari Novin M.</b> and et al.,	Antiandrogenic effect of Rosmarinus officinalis extract in male rat.	Mashad, Iran 2007			

<b>Ghaffari Novin M,</b> Ameri F.,. and et al.,	Effect of Rosmarinus officinalis extract on male reproductive tract in rats.	Tehran, Iran, 2007	7 <sup>th</sup> International congress on Obs. and Gyn.	P50
Jannati N., <b>Ghaffari Novin M.,</b> and et al.,	Hormonal disturbance and histopathology of testis in Klinefelter syndrome	Tehran, Iran, 2007	7 <sup>th</sup> International congress on Obs. and Gyn	P10
Heidari M., Chamani L, Akhondi MM, <b>Ghaffari Novin M.</b> and et al.,	Effect of Furazolidone on male reproductive tract in rats	Tehran, Iran, 2007	7 <sup>th</sup> International congress on Obs. and Gyn.	P19
Mohammadzadeh A; Heidari,M; Soltanghoraiee, H ; <b>Ghaffari Novin ,</b> M ;Akhondi, Mohammadzadeh, F.	WBC changes in female rats with Endometriosis	Tehran, Iran, 2007	7 <sup>th</sup> International congress on Obs. and Gyn	P67

Nouri M, Ghasemzadeh A, Farzadi L, Shahnazi V and <b>Ghaffari Novin M.</b>	The effects of antioxidant treatment on semen quality in patients with asthenozoospermia.	Antalya, Turkey 2007	14th Annual meeting of Middle East Fertility Society	Abstract book	P-38
<b>Ghaffari Novin M,</b> Heidari M, Akhondi MA, M Jeddi Tehrani <sup>3</sup>	Human chorionic gonadotrophin - $\beta$ secretion of human embryo and its role in implantation <i>in vitro</i>	Antalya, Turkey 2007	14th Annual meeting of Middle East Fertility Society	Abstract book	P-27
H. Saeidi, M. <b>Ghaffari Novin,</b> M. Agha Hosseini, A. Al-Yacin, A Khademi	Successful delivery following 2-pronuclei vitrification	14th Annual meeting of Middle East Fertility Society, Antalya, Turkey 2007	Middle East Fertility Society Journal	Abstract book	P-18
Heidari M. Jamsedi AH, <b>Ghaffari M.,</b> Sadeghi MR, Akhondi MA, Khansari G	Evaluation antifertility effect of crude extract on of Centella Asiatica on male rat <i>in vivo</i>	14th Annual meeting of Middle East Fertility Society, Antalya, Turkey 2007	Middle East Fertility Society Journal	Abstract book	O-73
Rajaei F., <b>Ghaffari M.</b>	The effects of social stress on number and quality of flushed mouse blastocysts	14th Annual meeting of Middle East Fertility Society, Antalya, Turkey 2007	Middle East Fertility Society Journal	Abstract book	P-11

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Nikan M., Froutan SK, Ragheb SH, <b>Ghaffari M</b> , Mansoury S.	Mycoplasma hominis attaches to human spermatozoa	14th congress of Iranian society for reproductive medicine, Yazd, Iran 2008	Iranian Journal of Reproductive Medicine,	Vol. 6, Suppl 1, Winter 2008	37
Ghaffari Novin, M	Implantation Failure: Embryologist View	1 <sup>st</sup> International Symposium & Workshop on Clinical Embryology Nov. 22-23, Yazd, Iran 2008	Abstract Book		
Ghaffari Novin, M	Proteomics and Embryo Selection	Iranian society for reproductive Medicine			

Ghaffari Novin, M	Endometrial factors in recurrent miscarriage	Royan International Twin Congress 9 <sup>th</sup> International Congress on Reproductive Biomedicine and 4 <sup>th</sup> International Congress on Stem Cell Biology & Technology, 2008 Tehran, Iran	Yakhtheh Medical Journal		
Ghaffari Novin, M	Oocyte and embryo quality	15th congress of Iranian society for reproductive medicine, Shiraz, Iran 2009	Iranian Journal of Reproductive Medicine,		
Farzad Rajaei, <b>Ghaffari Novin</b> <b>Marefat</b>	The effects of vitrification on mouse blastocyst DNA fragmentation.	Royan International Twin Congress 9 <sup>th</sup> International Congress on Reproductive Biomedicine and 4 <sup>th</sup> International Congress on Stem Cell Biology & Technology, 2008 Tehran, Iran	Yakhtheh Medical Journal		

<b>Ghaffari Novin Merefat</b>	ART		The Iranian scientific practical congress of general practitioner		
<b>Ghaffari Novin Merefat</b>	Stem cell, cloning and ART		The Iranian scientific practical congress of general practitioner		
Khadijeh.Foghi , Merefat. Ghaffari Novin and et al.,	Immunohistochemical localization of endothelial nitric oxide synthase in testicular tissue of men with Non-obstructive azoospermia	1-3 December 2010, Tehran, Iran	3 <sup>rd</sup> congress of laboratory and clinic pediatrics		
Merefat. Ghaffari Novin	Predictive value of human oocyte in ART	Tehran, Iran, 2011	Iranian Journal of Reproductive Medicine,	Vol. 9, Suppl 2, spring 2011	
Tohid Najafi , Merefat. Ghaffari Novin and et al.,	Immunohistochemical localization of endothelial nitric oxide synthase in human endometrium in unexplained infertility	Tehran, Iran, 2011	Iranian Journal of Reproductive Medicine,	Vol. 9, Suppl 2, spring 2011	
Merefat Ghaffari Novin	Environmental chemical pollution and male infertility	Tehran, Iran, 2011	International congress on environmental effects on reproductive health		
Merefat Ghaffari Novin	Preimplantation Genetic Diagnosis	Tehran, Iran, 2012			
Merefat Ghaffari Novin	Repeated implantation failure	Tehran, Iran, 2012			
Allahveisi A, <b>Ghaffari Novin M</b> , Yousefian E	The Central Role of Mitochondrial Function in Quality of Human Oocyte	Tehran, Iran, 2012	International journal of fertility and sterility	Vol 6. Suppl 1,	33-34



Marefat Ghaffari Novin	The effect of age on egg quality	5 <sup>th</sup> international congress IRHRC of reproductive health and family health, Tehran, Iran, 2012	Iranian journal of obs. & gyn., infertility		15-16
Sanaz Alaei, Marefat Ghaffari Novin	The effects of menopause on endometrial receptivity	5 <sup>th</sup> international congress IRHRC of reproductive health and family health, Tehran, Iran, 2012	Iranian journal of obs. & gyn., infertility		31
Azra Allahveisi, Marefat Ghaffari Novin	Effect aging and menopause on mitochondrial oocyte and oocyte quality	5 <sup>th</sup> international congress IRHRC of reproductive health and family health, Tehran, Iran, 2012	Iranian journal of obs. & gyn., infertility		32
Shams mofarah <b>,Ghaffari Novin M</b>	The role of ovarian cryopreservation in fertility preservation and hormonal function of aging women	5 <sup>th</sup> international congress IRHRC of reproductive health and family health, Tehran, Iran, 2012	Iranian journal of obs. & gyn., infertility		67-68
Azra Allahveisi, <b>Marefat Ghaffari Novin</b> , elham yousefian, sanaz alaei, nahid ehsani	Effect smoking on DNA methylation in women with cervix malignancy	6th National Congress IRHRC Reproductive and Infertility			43

Azra Allahveisi, <b>Marefat Ghaffari</b> <b>Novin</b> ,elham yousefian,sanaz alae	Effect epigenetic change on human infertility	6th National Congress IRHRC Reproductive and Infertility			44-45
Sanaz Alae*, <b>Marefat Ghaffari</b> <b>Novin</b> , Azra Allahveisi, Elham Yousefian, Hamid Nazarian	Use of Spearmint as a herbal plant for treatment of hirsutism	6th National Congress IRHRC Reproductive and Infertility			228-229
Azra Allahveisi, <b>Marefat Ghaffari</b> <b>Novin</b> ,elham yousefian,sanaz alae,,nahid ehsani	Role of lifestyle factors in the effect on health fertility	6th National Congress IRHRC Reproductive and Infertility			229-230
Elham Yousefian1, <b>Marefat</b> <b>at Ghaffari</b> <b>Novin</b> ,Azra Allahveisi, Sanaz Alae,Nahid Ehsani	Obesity and Male Infertility	6th National Congress IRHRC Reproductive and Infertility			354-355

Alaee S, Yeganeh F, <b>Ghaffari Novin M</b> , Allahveisi A.	Evaluation of progesterone receptor $\alpha$ and $\beta$ expression in endometrium of women with repeated implantation failure	20th National Congress on Infertility and Reproduction	Iranian Journal of Reproductive Medicine, Vol. 12, No 6 (Suppl. 1), June 2014	2	
Nazarian H, <b>Ghaffari Novin M</b> , Hosseini SJ, Mirfakhraie R	Study of Wnt3a protein concentration and expression of frizzled10 (FZD10) and GSK3- $\beta$ genes in testicular tissue of obstructive and non-obstructive azospermic men	20th National Congress on Infertility and Reproduction	Iranian Journal of Reproductive Medicine, Vol. 12, No 6 (Suppl. 1), June 2014	38	
	کنکره رویان 2014				

### Research Interests:

Interest Item
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Human Embryo Implantation

Human Embryo Development

Reproductive Endocrinology

Recurrent Miscarriage

## **Honour:**

**The elected researcher in the fifth festival in honour with the attendance best researchers of 2004, Iran.**

### Thesis Supervised :

Title	Degree	University	Duration
Morphological study of ovarian stimulation drug effects on human endometrium during early secretory phase	PhD student	Tabriz University of Medical Sciences	2000-2002
Morphological study of ovarian stimulation drug effects on human endometrium during mid secretory phase	PhD student	Tabriz University of Medical Sciences	2000-2002
Identification of maternal mRNA down regulation in mouse zygote	PhD student	Tehran University of Medical Sciences	2001-2003
Study of freezing effect on embryo apoptosis	PhD student	Tabriz University of Medical Sciences	2002-2004
Study of freezing effect on human sperm apoptosis	PhD student	Tabriz University of Medical Sciences	2002-2004
Study of human sperm centrosome by using pizo-ICSI injection of oocyte	PhD student	Tehran University of Medical Sciences	2002-2004
Study of relation between chlamydia infection and infertility	MS Student	Tehran University of Medical Sciences	1999-2001
Modern Human Reproductive Techniques from the View of Jurisprudence & Law".	MS Student	Azad University	1999-2001
Study of histopathological effect of flurokinolone Antibiotic on rat testis tissue and spermatozoa	PhD Student	Azad University	2003-2005
Study of Mycoplasma H.E. in female infertility	MD Student	Shahed University of Medical Sciences	2005-2006
Leukocytospermia in male infertility	MD Student	Tabriz University of Medical Sciences	2005-2006
Anti phospholipid antibodies in fertile and recurrent abortion	MD Student	Azad University of Medical Sciences	2005-2006
Effect of Rosmarinus officinalis extract on male reproductive tract in rats	MS Student	Azad University of Medical Sciences	2006-2007
Study of Immunomodulators effects on cytokines expression by human endometrium in patient with repeated implantation failure	PhD student	Tehran University of Medical Sciences	2008
Nitric Oxide in human testis in obstructive and non obstructive azospermia	MS Student	Shahid Beheshti University of Medical Sciences, Tehran, Iran	2010

Nitric Oxide in human endometrium in ART failure and recurrent miscarriage	MS Student	Shahid Beheshti University of Medical Sciences, Tehran, Iran	2010
Ultrastructural study of human implantation in vitro	PhD Student	Shahid Beheshti University of Medical Sciences, Tehran, Iran	2009
Determination of soluble human leukocyte antigen G level in embryo culture supernatants after ICSI and correlation with embryo morphology	MS Student/F.A hmadi	Shahid Beheshti University of Medical Sciences, Tehran, Iran	2010
The expression of endothelial nitric oxide synthase in the fallopian tubes of woman with tubal ectopic pregnancy	MS Student/L.F. Bayati	Shahid Beheshti University of Medical Sciences, Tehran, Iran	2012
The effect of melatonin on in vitro maturation, fertilization and embryo development of immature oocyte and expression of HMGB1 gene in mouse blastocyst	MS Student/M. Salimi	Shahid Beheshti University of Medical Sciences, Tehran, Iran	2012
Relation between level of human seminal clusterin with protamine deficiency and DNA fragmentation	MS Student/H.Akbari	Shahid Beheshti University of Medical Sciences, Tehran, Iran	2012
Evaluation of major histocompatibility complex genes expression in somatic cell nuclear transfer embryonic stem cell	PhD Student/F. Farifteh	Shahid Beheshti University of Medical Sciences, Tehran, Iran	2012
Study of wnt3a protein and expression of frizzled 10 and GSK3-B genes in testicular tissue of obstructive and non-obstructive azospermic men	PhD Student/Hamid Nazarian	Shahid Beheshti University of Medical Sciences, Tehran, Iran	2014
Investigation of IL-6 Receptor gp130, mPR $\beta$ , mPR $\gamma$ Gene Expression in the Fallopian Tubes of Women with Ectopic Pregnancy	PhD Student/Elham Yousefian	Shahid Beheshti University of Medical Sciences, Tehran, Iran	2014

Investigation of exon-1 and promoter of androgen receptor gene polymorphisms and expression of androgen receptor, fibroblast growth factor10 and fibroblast growth factor receptor2 genes in prepuce tissue of children with isolated hypospadias	PhD Student/Nasim Borhani	Shahid Beheshti University of Medical Sciences, Tehran, Iran	2014
Evaluation of the effect of Allium cepa seed extract on testicular apoptosis induced by Busulfan in rats	D.V.M/ Seyed Nasibeh Hosseini Ahar	ISLAMIC AZAD UNIVERSITY, SCIENCE AND RESEARCH BRACH Faculty of of Specialized Veterinary Sciences- Department of Veterinary	2014
Comparison Of (TFAM,NRF1 And MT-CO1) Transcript Expression Levels In The Single Oocytes At Different Stages Of The Human Oocyte Maturation	PhD Student/azra allahveisi	Shahid Beheshti University of Medical Sciences, Tehran, Iran	2014
Evaluation of Progesterone Receptor, FKBP51 and FKBP52, Associated with Uterine Receptivity, in Endometrial Tissue of Women with Repeated Implantation Failure	PhD Student/S. Alae	Shahid Beheshti University of Medical Sciences, Tehran, Iran	2014
Effect of Pre and Post Cryopreservation Irradiation of Low-Power Infrared Laser on Improving Functional Parameters of Human Sperm	PhD Student/F. Safian	Shahid Beheshti University of Medical Sciences, Tehran, Iran	2019
Evaluation of autophagy-related genes expression (AMPK $\alpha$ 1, Beclin1, Bcl2 and Bax), apoptotic changes, telomere length, and DNA integrity in spermatozoa of obese subfertile men compared to normal weight fertile individuals	PhD Student/P. Rae	Shahid Beheshti University of Medical Sciences, Tehran, Iran	2020
Effects of Edaravone supplementation on semen parameters, apoptosis, chromatin integrity, lipid peroxidation and mitochondrial membrane potential in cryopreserved human spermatozoa with asthenoteratozoospermia	PhD Student/M.R. Ghasemi	Shahid Beheshti University of Medical Sciences, Tehran, Iran	2021
The effect of tetrahydrocannabinol on inflammatory cells in adult male rat's cerebellar tissue	MD Student/Y. Bohluli	Shahid Beheshti University of Medical Sciences, Tehran, Iran	2022

Effects of Bisphenol A on kidney tissue of adult male rats	MD Student/A. Mehdizadeh	Shahid Beheshti University of Medical Sciences, Tehran, Iran	2022
effects of bisphenol A on oxidative stress of adult male rat	MD Student/M. Asadi	Shahid Beheshti University of Medical Sciences, Tehran, Iran	2022

### References:

Person	Address	Tel No.	Fax No.	E-Mail
<b>Dr M. A. Warren</b>	Professor of Sheffield University Department of Biomedical Sciences, Sheffield University, Western Bank, Sheffield S10 2TN	+44 (114)2765413	+44 (114)2765413	m.a.warren@sheffield.ac.uk
<b>Dr Amir Mohsen zieai</b>	Professor of Shahid Beheshti University of Medical Sciences, Deputy of Education of Ministry of health, treatment and Education of I.R.Iran	09121097238 021 88364368		