

Azita Faramarzi
Associated Professor of Reproductive Biology
Kermanshah University of Medical Science
Curriculum Vitae

Personal Information:

Place of Birth: Kermanshah, Iran

Languages: Persian (Native)

English (Semi fluent)

Contact Information:

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Education:

Ph.D., Reproductive Biology, Shahid Sadoughi University of Medical Sciences, Research and Clinical Center for Infertility, Yazd Reproductive Sciences Institute 2012-2017
M.Sc., Medical Physiology, Tehran University of Medical Sciences, School of Medicine, Department of Medical Physiology 2008-2011
B.Sc., Midwifery, Kermanshah University of Medical Sciences, Faculty of Nursing and Midwifery 2001-2005

Research Interests:

- Biology and pathology of human sperm, oocyte and embryo.
- In vitro and in-vivo study to improve human embryo implantation.
- Human study and animal model study for male and female reproductive system disorders (PCO, endometriosis, Poor responder, RIF patient, azoospermia, oligo-astheno-teratospermia)
- Fertility preservation
- ART techniques improvement (SA, IUI, IVM, IVF, ICSI, sperm- oocyte and embryo freezing, embryo biopsy and etc.)
- High technology in ART (MSOME, IMSI, time lapse & morphokinetics, oocyte polraide)

Teaching:

From first semester of 96-97 to now

- Histology (Faculties of Medicine, Pharmacy, Dentistry, Allied Medical science, Nursing and Midwifery)
- Introduction of anatomy (Faculty of Medicine)
- Embryology (Faculties of Medicine and Nursing and Midwifery)
- Pelvis anatomy (Faculty of Nursing and Midwifery)
- Molecular Embryology (Faculty of Medicine)
- Histology (International students of faculty of Medicine)
- Introduction of anatomy (International students of faculty of Medicine)

Publications:

International

1. **Faramarzi A**, Seifi B, Sadeghipour HR, Shabanzadeh AR, Ebrahimipour M. Prooxidant-antioxidant balance and malondialdehyde over time in adult rats after tubal sterilization and vasectomy. Clin Exp Reprod Med. 2012
2. Zare S, Rahmani Y, Eghbal Eftekhari T, **Faramarzi A**, Alavi A, Fallahi S. Role of oxidative stress in Male infertility. International Electronic Journal of Medicine (IEJM) July 2013
3. **Faramarzi A**, Khalili MA, Soleimani M. First successful pregnancies following embryo selection using Time-lapse technology in Iran: Case report. Iran J Reprod Med. 2015
4. Rahiminia T, **Faramarzi A**, Khoradmehr A, Khalili Ma. Cumulus co-culture system does not improve the in-vitro maturation (IVM) of oocytes in mice. MEFS. 2016
5. Safari S, **Faramarzi A**, Agh-Rahimi A, Khalili MA. Live birth in woman with recurrent implantation failure and adenomyosis following transfer of refrozen-warmed embryos: case report. CERM. 2016.
6. Fesahat F, **Faramarzi A**, Khoradmehr A, Omidi M, Anbari F, Khalili MA. Vitrification of mouse MII oocytes: Developmental competency using paclitaxel. Taiwan Association of Obstetrics and Gynecology. 2016
7. **Faramarzi A**, Khalili MA, Ashourzadeh S. Oocyte morphology and embryo morphokinetics in ICSI program: is there a relationship? Zygote. 2017.
8. **Faramarzi A**, Khalili MA, Giuletta M, Agha-Rahimi A. Revealing the secret life of pre-implantation embryos by time lapse monitoring: a review. Iran J Reprod Med. 2017
9. Omidi M, **Faramarzi A**, Agha-Rahimi A, Khalili MA. Non-invasive imaging systems for gametes and embryo selection in IVF programs: a review. Journal of Microscopy. 2017
10. Fesahat F, **Faramarzi A**, Sheikhha MH, Dehghani Firouzabadi R, Khalili MA. Comparing the effects of different in vitro maturation media on IVM outcomes of MI oocytes. MEFS. 2017.
11. **Faramarzi A**, Khalili MA, Agha-Rahimi A, Omidi M. Is there any correlation between oocyte polarization microscopy findings with embryo time lapse monitoring in ICSI program? Archives of Gynecology and Obstetrics. 2017
12. Fesahat F, Dehghani Firouzabadi R, **Faramarzi A**, Khalili MA. The effects of different types of media on in vitro maturation outcomes of human germinal vesicle oocytes retrieved in intracytoplasmic sperm injection cycles. Clinical and Experimental Reproductive Medicine. 2017
13. **Faramarzi A**, Khalili MA, Omidi M. Agha-rahimi A, Taheri F. Pronuclear pattern does not predict morphokinetics behavior in human embryos. Gynecological Endocrinology. 2018.
14. **Faramarzi A**, Khalili MA, Ashourzadeh S. Does rescue oocyte in vitro maturation (IVM) impair embryo morphokinetics development? Zygote. 2018

15. **Faramarzi A**, Khalili MA, Omid M. Morphometric analysis of human oocytes does not predict the morphokinetic of corresponding embryos. *Human Fertility*, 2019.
16. Omid M, Khalili MA, Agha- Rahimi A, Nottola S, Anbari F, **Faramarzi A**, Palmerini MG. Efficacy of the in vitro splitting of human preimplantation embryos from ART programs. *Turkish journal of medical sciences*. 2019
17. **Faramarzi A** , Khalili MA, Mangoli E. Correlations between embryo morphokinetic development and maternal age: Results from an intracytoplasmic sperm injection program. *Clinical and Experimental Reproductive Medicine*.2019
18. Jalili C, Roshankhah S, **Faramarzi A**, Salahshoor MA. Effects of carbophos on rat testopathy following resveratrol administration: An experimental study. *Reproductive and Developmental Medicine*. 2019
19. **Faramarzi A**, Khalili MA, Golestan Jahromi M. Is there any correlation between apoptotic genes expression in cumulus cells with embryo morphokinetics? *Molecular Biology Reports*. 2019
20. **Faramarzi A** , Aghaz F , Bakhtiari M, Khazaei M. In vitro application of Ceratonia siliqua improved sperm parameters and chromatin quality after vitrification in normozoospermic aged men. *Middle East Fertility Society Journal*. 2019
21. **Faramarzi A** , Aghaz F , Golestan Jahromi M, Bakhtiari M, Khazaei M. Does supplementation of sperm freezing/thawing media with Ceratonia siliqua improve detrimental effect of cryopreservation on sperm parameters and chromatin quality in normozoospermic specimens? *Cell and Tissue Banking*. 2019
22. Mangoli E, Khalili MA , Talebi AR, Agha-Rahimi A, Soleimani M, **Faramarzi A**, Pour Entezari M. IMSI procedure improves clinical outcomes and embryo morphokinetics in patients with different etiologies of male infertility. *Andrologia*. 2019
23. Roshankhah ., Hassanzadeh G, **Faramarzi A**, Salahshoor M. Alteration of apoptotic gene expression and reproductive parameters through Thymus vulgaris administration following paclitaxel-induced testopathy in mice. *Reproductive and Developmental Medicine*. 2020
24. Salahshoor MA,, Abdolmaleki A, **Faramarzi A**, Jalili C, Roshankhah S. Does Tribulus terrestris improve toxic effect of Malathion on male reproductive parameters? *Journal of Pharmacy and Bioallied Sciences*. 2020
25. Salahshoor MA,, Abdolmaleki A, **Faramarzi A**, Ziapour A, Roshankhah S. Thymus vulgaris attenuates myleran-induced reproductive damage by decreasing oxidative stress and lipid peroxidation in male rats. *Journal of Human Reproductive Sciences*. 2020
26. Taheri F, Omid O, Khalili MA, Agha-Rahimi A, Sabour M, **Faramarzi A**, Mangoli E. The determination of estradiol to cumulus oocyte complex (COC) number ratio: Does it predict the outcomes of art cycles? *Journal of Reproduction and Infertility*. 2020

27. **Faramarzi A** , Aghaz F , Bakhtiari M , Roshankhah S , Rashidi Z , Khazaei M. Ceratonia siliqua (Carob) extract improved in vitro development of vitrified-warmed mouse germinal vesicle oocytes: assessment of possible mechanism. Cell and Tissue Banking. 2021
28. Moradi M, Goodarzi N, Faramarzi A, Cheraghi H, Hashemian Ah, Jalili C. Melatonin protects rats testes against bleomycin, etoposide, and cisplatin-induced toxicity via mitigating nitro-oxidative stress and apoptosis. Biomedicine and Pharmacotherapy. 2021
29. **Faramarzi A**, Jahromi MG, Ashourzadeh S. Jalilian N. Metastatic and pathophysiological characteristics of breast cancer with emphasis on hereditary factors. The Central Asian Journal of Medical and Pharmaceutical Sciences Innovation. 2021
30. Ashourzadeh S, Khalili MA, Omid M, Nottola SA, **Faramarzi A**. Supplementation of IVM culture media with GDF-9 enhanced oocyte quality, fertilization and embryo development in ICSI procedure. The Central Asian Journal of Medical and Pharmaceutical Sciences Innovation. 2021
31. Omid M, **Faramarzi A**, Agha Rahimi A, Farshchi FS, Khalili MA. Total fertilization success and embryo formation in ART treatments: does it have any predictive value? The Central Asian Journal of Medical and Pharmaceutical Sciences Innovation. 2021
32. Moradi B, **Faramarzi A**, Ghasemi-Esmailabad S, Aghaz F, Hashemian AH, Khazaei M. L-proline as a novel additive to cryopreservation media improved post-thaw quality of human spermatozoon via reducing oxidative stress. Andrologia. 2021
33. Moradi M, Moradi B, Hashemian AH, Bakhtiari M, Khazaei M, Esmaeili F, Aghaz F, **Faramarzi A**. Beneficial effect of L-Proline supplementation on the quality of human spermatozoa. Andrologia. 2022
34. Moradi M, Hashemian MA, Douhandeh E, Peysokhan M, Hashemian AH, Faramarzi A. The protective role of melatonin in citalopram-induced reproductive toxicity via modulating nitro-oxidative stress and apoptosis in male mice. Reproductive Toxicology. 2023
35. Moradi M, Hashemian MA, Fathi M, Peysokhan M, Hashemian AH, Moradi B, Jalili C, **Faramarzi A**. Utility of vitamin C in ameliorating citalopram-induced testicular toxicity via modulating nitro-oxidative stress and apoptosis in mice. Journal of Biochemical and Molecular Toxicology. 2024
36. Moradi M, Hashemian MA, **Faramarzi A**, Goodarzi N, Hashemian AH, Cheraghi H, Jalili C. Therapeutic effect of sodium alginate on bleomycin, etoposide and cisplatin (BEP)-induced reproductive toxicity by inhibiting nitro-oxidative stress, inflammation and apoptosis Scientific Reports. 2024
37. Moradi M, Golestan Jahromi M, Mirzaei S, Ghanbari E, Moradi S, Afkar F, Rezakhani L, **Faramarzi A**. Protective Effects of Scrophularia striata Extract on Testicular Function and

Spermatogenesis in Cadmium-Exposed Mice: Role of Nitro-Oxidative Stress Modulation. Andrologia. 2025

National

1. **Faramarzi A**, Seifi B, Sohani M, H Sadeghipour HR. The effect of bilateral vasectomy on the serum levels of Prooxidant-Antioxidant Balance (PAB) and lipid peroxidation in rat.
2. **Faramarzi A**, Seifi B, Sadeghipour HR, Shabanzadeh A, Sohani M, Ebrahimpour M, Effects of bilateral tubal sterilization on serum oxidative stress and ovarian hormones in female rats. MEDICAL JOURNAL OF HORMOZGAN UNIVERSITY. 2013.16:437-444
3. Najafia A, Yosefzadi M, Alavi, A Amjadi Golpayegani K , Dadipoor S , Safar Moradabadi A , Fallahi S, **Faramarzi A**. Post surgical adhesion prevention: Vitamin C or Satureja Khuzestanica. VETERINARY CLINICAL PATHOLOGY (VETERINARY JOURNAL TABRIZ). 20137:1786-1792
4. Khazaei AH, **Faramarzi A**, Khazaei M. Therapeutic and Functional Application of Ceratonia Siliqua: Tradition Remedies and New Research Finding. Journal of Knowledge and Health in Basic Medical Sciences. 2022
5. Rezakhani L, Khazaei MR, **Faramarzi A**, Khazaei M. Molecular factors affecting embryo implantation: a narrative review. Journal of Guilan University of Medical Sciences. 2024

Thesis supervisors (in Persian):

- The survey effect of melatonin on the testicular toxicity induced by the bleomycin, etoposide and cisplatin (BEP) regimen in rat administration
- The survey effect of L-proline on human normozoospermic parameters and chromatin integrity after cryopreservation
- Effect of sodium alginate on testicular toxicity induced by administration of bleomycin, etoposide and cisplatin (BEP chemotherapy regimen) in male rats
- Survey the effect of Vitamin C on testicular toxicity induced by citalopram in mice
- The survey effects of melatonin on the testicular toxicity induced by the citalopram in mice
- The survey of the effects of Scrophularia Striata extract on the cadmium reproductive system toxicity in male mice
- A survey of the possible protective effects of Ceratonia siliqua extract on the testicular toxicity induced by the cadmium in mice
- The survey of protective effect of L-proline of deterimetal effects of cryopreservation on sperm parameters and chromatin in asthenozoospermia specimen
- Evaluating the effects of proline on detrimental effects of heat stress on human spermatozoa

- Investigating the effect of hydroalcoholic extract of *Taverniera Sparteia* on the AKT/mTOR/ β -Catenin signaling pathway in triple negative breast cancer cells
- Investigating the effects of spirulina on SORT1 gene expression and response to chemotherapy in ovarian cancer cells
- Investigating the effects of spirulina on proliferation, apoptosis, nitric oxide release and the expression of Ras/MAPK pathway genes in cervical cancer cells (CC1-PI 19)
- Investigating the effect of spirulina on the activation of Fas/FasL-ASK1-p38 pathway in breast and prostate cancer cells
- The survey effects of melatonin on the testicular toxicity induced by the Trazodone in mice
- The survey effects of Lycopene on the spermatogenesis changes and oxidative stress induced by the Trazodone in mice
- Investigating the effect of lycopene on human sperm parameters, chromatin integrity and oxidative status in vitrification
- Investigating the effect of sericin-based Nanoencapsulation melatonin in the treatment of polycystic ovary syndrome induced by letrozole in rats
- Comparison the effect of proline on human sperm parameters, chromatin integrity and oxidative status in vitrification and rapid freezing methods

M.Sc. Thesis:

Survey of Tubal ligation on serum Prooxidant-Antioxidant Balance (PAB) and Estrous cycle cycles in rat

Ph.D. Thesis:

Comparison of cytokinetic assessment of embryos generated from in-vitro (IVM) and in vivo matured human oocytes in ICSI program.

Abstracts in Congress:

1. Effect of bilateral vasectomy on the serum levels of Prooxidant-Antioxidant Balance and Lipid peroxidation in rat. 20 th Iranian Congress Physiology and pharmacology
2. Effect of Bilateral Tubal Ligation on ovarian function in female rat. 20 th Iranian Congress Physiology and pharmacology
3. Ovarian function over time in adult rats after tubal sterilization. 14 th congress on Reproductive Biomedicine and 9 th congress on stem cells Biology and technology
4. Ethical Considerations in Sex selection. 7th Annual Neuro-Genetic Congress

5. A survey of infertile women's attitudes towards surrogacy. First International congress of reproductive ethics
6. Comparing in-vitro maturation of oocytes in presence of mature or immature cumulus cells in mice. the 6 th international congress and student award in reproductive medicine with 1 th reproductive genetic congress
7. Medical staff' viewpoint on ART nursing working at Reproductive Institute. the 6 th international congress and student award in reproductive medicine with 1 th reproductive genetic congress
8. First successful pregnancies following embryo selection using Time-lapse technology in Iran. the 6 th international congress and student award in reproductive medicine with 1 th reproductive genetic congress
9. The effects of chronic and acute ethanol administration on sperm chromatin parameters in mice. the 6 th international congress and student award in reproductive medicine with 1 th reproductive genetic congress
10. Effects of bilateral tubal ligation on serum oxidative stress and ovarian function in female rats. the 13 th International congress on reproductive medicine
11. Ovarian function over time in adult rats after tubal sterilization. the 14 th International congress on reproductive medicine
12. The effect of bilateral vasectomy on the serum levels of oxidative stress in rat. 19 th national congress on Infertility and Reproduction
13. Comparative study of prooxidant-antioxidant balance and malondialdehyde after tubal sterilization and vasectomy over time in adult rats. 3th International and 18 th National Congress of Iranian Society for Reproductive Medicine
14. Embryo kinetics and oocyte quality: is there a relationship? The 2nd International Congress on Reproduction. 2016
15. Comparison of different in vitro maturation media for immature oocytes obtained from stimulated ICSI cycles. The 2nd International Congress on Reproduction. 2016
16. Vitriification of mouse MII oocytes: Developmental competency using paclitaxel. 7th Yazd International Congress and Student Award in Reproductive Medicine with 2nd congress of reproductive genetics and congress of reproductive Immunology. 2017 (winner)
17. Does rescue oocyte in vitro maturation (IVM) impair embryo morphokinetics development? : a time lapse study. 7th Yazd International Congress and Student Award in

- Reproductive Medicine with 2nd congress of reproductive genetics and congress of reproductive Immunology. 2017
18. Is there any correlation between oocyte polarization microscopy findings with embryo time lapse monitoring in ICSI program? Human Reproduction. 2017
 19. Pronuclear pattern does not predict morphokinetics behavior in human embryos. The 3rd International Congress on Reproduction, ISERB 2017.
 20. Does Time lapse monitoring (TLM) improve assisted reproductive outcomes? 8th Yazd International Congress and Student Award in Reproductive Medicine with 3rd congress of reproductive genetics. **Key lecture**. 2019
 21. Clinical outcomes of IMSI and embryo morphokinetics in patients with male factor infertility. 8th Yazd International Congress and Student Award in Reproductive Medicine with 3rd congress of reproductive genetics. 2019
 22. Morphometric analysis of human oocytes does not predict embryos developmental outcomes: a time lapse study. 8th Yazd International Congress and Student Award in Reproductive Medicine with 3rd congress of reproductive genetics. 2019
 23. Is there any correlation between embryo morphokinetics development and maternal age in an intra-cytoplasmic sperm injection programme? 8th Yazd International Congress and Student Award in Reproductive Medicine with 3rd congress of reproductive genetics. 2019
 24. The use of time lapse technology for embryo culture, is it necessary? 9th Yazd International Congress and Student Award in Reproductive Medicine with 4th congress of reproductive genetics. 2021, Key lecture
 25. Melatonin prevents wistar rat testes from Bleomycin, Etoposide, and Cisplatin (BEP) Chemotherapy-induced reproductive toxicity: A biochemical, immunohistochemical and apoptosisrelated genes-based evidence. 9th Yazd International Congress and Student Award in Reproductive Medicine with 4th congress of reproductive genetics. 2021
 26. Protective effect of melatonin against bleomycin, etoposide, and cisplatin (BEP) chemotherapy-induced testicular toxicity in Wistar rats: A biochemical, immunohistochemical and apoptotic genes-based evidence. Human Reproduction. 2021

27. Protective effect of L-Proline on human sperm characteristics during cryopreservation. Fertility and Sterility. 2022
28. Cryopreservation of human spermatozoa: utilization of L-proline as a novel additive to improve sperm quality following freezing-thawing process. Human Reproduction. 2022
29. Melatonin mitigates testicular toxicity and impaired spermatogenesis caused by citalopram in mice. 10th Yazd International Congress and Student Award in Reproductive Medicine with 5th congress of reproductive genetics. 2023
30. The addition of L-proline into the human sperm medium preserves sperm quality and function during cryopreservation and in vitro incubation. 10th Yazd International Congress and Student Award in Reproductive Medicine with 5th congress of reproductive genetics. 2023
31. Bleomycin, etoposide and cisplatin (BEP) chemotherapy-induced testicular toxicity: ameliorative effect of sodium alginate by inhibiting oxidative stress, apoptosis and inflammation. Human Reproduction. 2024
32. Time lapse imaging and assisted reproductive technology. 11th Yazd International Congress and Student Award in Reproductive Medicine with 6th congress of reproductive genetics. 2025, Key lecture
33. Investigating the effect of hydroalcoholic extract of Taverniera Sparteia on the AKT/mTOR/ β -Catenin signaling pathway in triple negative breast cancer cells. 11th Yazd International Congress and Student Award in Reproductive Medicine with 6th congress of reproductive genetics. 2025
34. Investigating the effects of spirulina on proliferation, apoptosis, nitric oxide release and the expression of Ras/mitogen activated protein kinase pathway genes in cervical cancer cells (CC1-PI 19), 11th Yazd International Congress and Student Award in Reproductive Medicine with 6th congress of reproductive genetics. 2025
35. Investigating the effect of spirulina on the activation of Fas/Fas Ligand-Apoptosis signalregulating kinase 1-p38 pathway in breast and prostate cancer cells, 11th Yazd International Congress and Student Award in Reproductive Medicine with 6th congress of reproductive genetics. 2025
36. Investigating the effects of spirulina on Sortilin 1 gene expression and response to chemotherapy in ovarian cancer cells, 11th Yazd International Congress and Student Award in Reproductive Medicine with 6th congress of reproductive genetics. 2025

Prizes/Awards:

- 7th Yazd International Congress and Student Award in Reproductive Medicine with 2nd congress of reproductive genetics and congress of reproductive Immunology. 2017
- The best thesis in the 4rd Award of excellence in the field of Reproduction, ISERB 2018.

Organizing activities for congress, workshop, etc

- Work shop tutor of embryo selection in Yazd reproductive institute 2016
- Summer school tutor of sperm analysis in faculty of medicine, Kermanshah University of Medical Sciences
- Member of scientific committee of 7th Yazd International Congress and Student Award in Reproductive Medicine.
- Member of scientific committee of 4rd International Congress on Reproduction.
- Member of executive committee of 20th national congress of reproductive medicine 2014
- Member of executive committee of 15th National congress on of medical education
- Member of executive committee of 6th Yazd International Congress and Student Award in Reproductive Medicine
- Member of panel of embryo manipulation and selection in ART in 7th Yazd International Congress and Student Award in Reproductive Medicine.
- Member of panel of new technologies and embryology in 4th International Congress on Reproduction.
- Member of scientific committee of 8th Yazd International Congress and Student Award in Reproductive Medicine with 3rd congress of reproductive genetics.

- Member of scientific committee of 9th Yazd International Congress and Student Award in Reproductive Medicine with 4rd congress of reproductive genetics
- Member of scientific committee of 10th Yazd International Congress and Student Award in Reproductive Medicine with 5th congress of reproductive genetics
- Member of scientific committee of 23rd International Congress of Iranian Society for Reproductive Medicine
- Member of scientific committee of 11th Yazd International Congress and Student Award in Reproductive Medicine with 6th congress of reproductive genetics
-