

Curriculum Vitae (C.V.)

Personal Details:

First Name: Sanaz

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Current Position

- Faculty member, Reproductive Biology Department, School of Advanced Medical Sciences and Technologies, Shiraz University of Medical Sciences, Shiraz, Iran.

Education and Qualifications:

B.Sc: General Biology

Shiraz University, Faculty of Science, Biology Department, Shiraz, Iran, (2005).

M.Sc: Animal Cellular and Developmental Biology

Shiraz University, Faculty of Science, Biology Department, Shiraz, Iran, (2007).

Ph.D.: Reproductive Biology

Shahid Beheshti University of Medical Sciences, Anatomy and Biology Department.

Honors:

- First rank in the Ph.D. entrance exam
- First top student throughout the Ph.D. course
- ESHRE Certified Clinical Embryologist

Memberships

- European Society of Human Reproduction and Embryology
- Iran Society of Embryology and Reproductive biology

Publications

1. **Alaee S**, Zal F, Razban V, Talaei-Khozani T, Shokri S, Khodabandeh Z. PRP Influences Maturation and Fertilisation of Immature Mouse Oocytes. *Anatomia, Histologia, Embryologia*. 2024; 53. IF:0.8
2. **Alaee S**, Moradi L, Marcu D, Shokri S, Talaei-Khozani T, Zal F. Culture of Immature Ovarian Follicles within Decellularized Ovary Enhances Oocyte Maturation and Improves in Vitro Fertilization Results. *West Kazakhstan Medical Journal*. 2024; 66:267-284.
3. Bahmyari S, **Alaee S**, Khodabandeh Z, Talaei-Khozani T, Dara M, Mehdinejadi S, Solati A. The effects of Wharton's jelly MSCs secretomes for restoring busulfan-induced reproductive toxicity in male mice. *Human & Experimental Toxicology*. 2024; 43:09603271241269019. IF:2.7
4. Dara M, Nazari F, Dianatpour M, Karimi F, **Alaee S**, Shirazi R. Effect of Sunset Yellow on Testis: Molecular Evaluation, and Protective Role of Coenzyme Q10 in Male Sprague-Dawley Rats. *Cell Biochemistry and Biophysics*. 2024; 1-9. IF: 1.8
5. Ashourzadeh S, Safari S, Hosseinisadat R, Kafaieinezhad R, Shokri S, **Alaee S**. Comparative analysis of conventional in vitro fertilization and intracytoplasmic sperm injection in patients with polycystic ovarian syndrome, tubal factor infertility, and unexplained infertility whose partners exhibit normal semen parameters: a retrospective study of sibling oocytes. *Clinical And Experimental Reproductive Medicine*. 2024; IF:1.8
6. **Alaee S**, Khodabandeh Z, Dara M, Hosseini E, Sharma M. Curcumin mitigates acrylamide-induced ovarian antioxidant disruption and apoptosis in female Balb/c mice: A comprehensive study on gene and protein expressions. *Food Science & Nutrition*. 2024; 12:4160-72. IF:3.9
7. Mohammadi Z, **Alaee S**, Namavar MR, Khodabandeh Z, Ahmadi N, Rashidipour N, Karami-Mohajeri S. The antioxidant properties of resveratrol on sperm parameters, testicular tissue, antioxidant capacity, and lipid peroxidation in isoflurane-induced toxicity in mice. *Human & Experimental Toxicology*. 2023; 42:09603271231215036. IF:2.7
8. Derakhshan Z, Bahmanpour S, **Alaee S**, Fallahi J, Tabei SMB. The Role of Circular RNAs in Male Infertility and Reproductive Cancers: A Narrative Review. *Iranian Journal of Medical Sciences*. 2023; 48(6):527. IF:2.4
9. Sadeghi Ataabadi M, Bahmanpour S, Yousefinejad S, **Alaee S**. Blood volatile organic compounds as potential biomarkers for polycystic ovarian syndrome (PCOS): An animal study in the PCOS rat model. *The Journal of Steroid Biochemistry and Molecular Biology*. 2023; 226:106215. IF: 4.1
10. **Alaee S**, Mirani M, Derakhshan Z, Koohpeyma F, Bakhtari A. Thymoquinone improves folliculogenesis, sexual hormones, gene expression of apoptotic markers and antioxidant enzymes in polycystic ovary syndrome rat model. *Veterinary Medicine and Science*. 2022; 9: 290-300. IF:1.772

11. Akbarzadeh-Jahromi M, Jafari F, Parsanezhad ME, **Alaee S**. Evaluation of supplementation of cryopreservation medium with gallic acid as an antioxidant in quality of post-thaw human spermatozoa. *Andrologia*. 2022; e14571. **IF: 2.4**
12. Lohrasbi P, Karbalay-Doust S, Tabei SMB, Azarpira N, **Alaee S**, Rafiee B, Bahmanpour S. The effects of melatonin and metformin on histological characteristics of the ovary and uterus in letrozole-induced polycystic ovarian syndrome mice: A stereological study. *International Journal of Reproductive BioMedicine*. 2022; 20: 973. **IF: 1.3**
13. Saberi R, Ahmadi A, Khodabandeh Z, **Alaee S**. Effect of Taurine and Curcumin on In-Vitro Fertilization in NMRI Mice Treated with Acrylamide. *SSU_Journals*. 2022;30: 4828-4841.
14. Rafiee B, Karbalay-Doust S, Tabei SMB, Azarpira N, **Alaee S**, Lohrasbi P, Bahmanpour S. Effects of N-acetylcysteine and metformin treatment on the stereopathological characteristics of uterus and ovary. *European Journal of Translational Myology*. 2022; 32(2): 10409. **IF:2.2**
15. Sadeghi Ataabadi M, Bahmanpour S, Yousefinejad S, **Alaee S**, Esmati R. Gharehchah. Androgens and COVID-19: A Double-Edged Sword. *Journal of Advanced Medical Sciences and Applied Technologies*. 2022; 7:34-47.
16. **Alaee S**, Khodabandeh Z, Mahintaj Dara M, Davari M, Bakhtari A. Toxic Effects of Sodium Polyacrylate at Different Concentrations on Embryo Development Rate and Expression of Apoptotic and Antioxidant Genes in Mouse Blastocysts. *Experimental Animal Biology*. 2022; 11(1):1-9.
17. Yaghutian Nezhad L, Mohseni Kouchesfahani H, **Alaee S**, Bakhtari A. Thymoquinone ameliorates bleomycin-induced reproductive toxicity in male Balb/c mice. *Human and Experimental Toxicology*. 2021; 40(12): 611-621. **IF:2.8**
18. **Alaee S**, Asadollahpour R, Hosseinzadeh Colagar A, Talaei-Khozani T. The decellularized ovary as a potential scaffold for maturation of preantral ovarian follicles of prepubertal mice. *Systems Biology in Reproductive Medicine*. 2021; 67(6): 423-427. **IF:2.4**
19. Khodabandeh Z, Dolati P, Zamiri MJ, Mehrabani D, Bordbar H, **Alaee S**, Jamhiri I, Azarpira N. Protective Effect of Quercetin on Testis Structure and Apoptosis Against Lead Acetate Toxicity: a Stereological Study. *Biological Trace Elements Research*. 2020;1-11. **IF:3.9**
20. Khodabandeh Z, Jamhiri I, Dehghani N, Daneshpazhouh H, Namavar Jahromi B, Dianatpour M, **Alaee S**. The effect of docetaxel on survival, fertilization rate and apoptosis-related genes mRNA expression in mouse metaphase II oocytes following vitrification. *Iranian Journal of Veterinary Research*. 2021; 22(1). **IF:1.2**
21. Bakhtari A, Nazarti S, **Alaee S**, Kargar-Abarghouei E, Mesbah F, Mirzaei E. Toxic Effects of Dextran-Coated Superparamagnetic Iron Oxide Nanoparticles on Mouse Embryo Development, Genes Expression of Antioxidant Enzymes and Apoptosis. *International Journal of Fertility and Sterility*. 2020; 14. **IF:2.5**
22. **Alaee S**, Bagheri MJ, Sadeghi Ataabadi M, Koohpeyma F. Capacity of Mentha spicata (spearmint) Extract in Alleviating Hormonal and Folliculogenesis Disturbances in Polycystic Ovarian Syndrome Rat Model. *Worlds Veterinary Journal*. 2020; 10: 451-456.

23. Bolouki A, Zal F, **Alaee S**. Effects of quercetin on the preimplantation embryos development in diabetic pregnant mice. *Journal of Obstetrics and Gynaecology Research*. 2020; 46: 736-74. **IF:1.6**
24. Erfani Majd M, Daneshi S, Talaei-Khozani T, Khajeh S, Azarpira N, Alaee S, Tanideh N, Tabandeh MR, Vahid Razban V. Decellularized liver transplant could be recellularized in rat partial hepatectomy model. *Journal of Biomedical Materials Research Part A*. 2019; 107: 2576-2588. **IF:4.9**
25. Namavar Jahromi B, Farrokhnia F, Tanideh N, Vijayananda Kumar P, Parsanezhad ME, **Alaee S**. Comparing the effects of glycyrrhiza glabra root extract, a cyclooxygenase-2 inhibitor (celecoxib) and a gonadotropin-releasing hormone analog (diphereline) in a rat model of endometriosis. *International Journal of Fertility and Sterility*. 2020; 14. **ISF:2.5**
26. Neisy A, Zal F, Seghatoleslam A, **Alaee S**. Amelioration by quercetin of insulin resistance and uterine GLUT4 and ER α gene expression in rats with polycystic ovary syndrome (PCOS). *Reproduction, Fertility and Development*. 2019; 31: 315-323. **IF:1.9**
27. Kargar-Abarghouei E, Z Vojdani Z, A Hassanpour A, **Alaee S**. Characterization, recellularization, and transplantation of rat decellularized testis scaffold with bone marrow-derived mesenchymal stem cells. *Stem cell research & therapy*. 2019; 9 (1), 1-16. **IF:7.5**
28. Razban V, Khajeh S, **Alaee S**, Mostafavi-Pour Z, Soleimani M. Tube Formation Potential of BMSCs and USSCs in Response to HIF-1 α Overexpression under Hypoxia. *Cytology and Genetics*. 2018; 52:236-244. **IF:0.5**
29. Ilani M, **Alaee S**, Khodabandeh Z, Jamhiri I, Owjifard M. Effect of titanium dioxide nanoparticles on the expression of apoptotic markers in mouse blastocysts. *Toxicological and Environmental Chemistry*. 2018; 100 (2), 228-234. **IF:1.8**
30. Kardi M, Elham Yousefian E, Allahveisi A, **Alaee S**. Association of Factor V Leiden and Prothrombin G20210A Polymorphisms with Recurrent Pregnancy Loss in Iranian Women. *International Journal of Preventive Medicine*. 2018; 8: 13. **IF:2.1**
31. Parsanejad M, Namavar B, Rezaee S, Kooshesh L, **Alaee S**. A randomized clinical trial comparing the effect of four different ovarian stimulation protocols, including hMG hFSH, rFSH, and sequential use of hFSH/rFSH on oocyte and embryo quality, and pregnancy outcomes in IVF/ICSI cycles. *Iranian Journal of Medical Sciences*. 2017; 42: 106. **IF:2.4**
32. Talaiekhosani AR, **Alaee S**, Ziaei G. Knowledge of Men and Women about Infertility Risk Factors. *Iranian Journal of Health, Safety & Environment*. 2016;3:597-603.
33. **Alaee S**, Rezaee S, Gholamreza Ziaei G. Evaluation of the Effects of Mentha Spicata Extract on In- Vitro Maturation of Mouse Oocyte. *Journal of Advanced Medical Sciences and Applied Technologies (JAMSAT)*. 2016; 2(2):200-203.
34. **Alaee S**, Talaiekhosani AR, Ziaei G, Lohrasbi P. Evaluation of Iranian College Students' Awareness about Infertility Risk Factors. *Jundishapur Journal of Health Science*. 2016; 8(2):e34172.
35. Monsefi M, Ghasemi A, **Alaee S**, Elham Aliabadi E. Effects of Anethum graveolens L.(dill) on Oocyte and Fertility of Adult Female Rats. *Journal of Reproduction and Infertility*. 2015; 16(1): 10-17. **Pubmed, Scopus**
36. Nozhat F, **Alaee S**, Behzadi K, Azadi Chegini N. Evaluation the Possible Toxic Effects of Spearmint (*Mentha spicata* Labiatae) on the Reproductive System, Fertility and Number of Offspring of Adult Male Rats. *Avicenna Journal of Phytomedicine*. 2014; 4(6): 420-429. **IF:2.2**

37. Yousefian E, Ghaffari Novin M, Fadaei F, Kardi M.T, Allahveisi A, **Alaee S**. Levels of mRNAs for Membrane Beta and GAMMA Progesterone Receptor in the Fallopian Tubes of Women with Ectopic Pregnancy. *Acta Endocrinologica*. 2014; 10(2): 195-202. . **IF:1**
38. **Alaee S**, Ghaffari Novin M, Noroozian M, Yeganeh F, Pakraveshteh J, Heidari M. Evaluation of Progesterone Receptor, FKBP51 and FKBP52, Associated with Uterine Receptivity, in Endometrial Tissue of Women with Repeated Implantation Failure. *Acta Endocrinologica*. 2014; 10(3): 229-239. **IF:1**
39. Monsefi M, Hosseini E, **Alaee S**. Lectin Histochemical Study of Rat Reproductive Tissues Treated with Ether Fraction of Anethum graveolens L. Extracts. *Anatomical sciences*. 2013; 10(4): 34-40.
40. Fazeli M, Hassanzadeh P, **Alaee S**. Cadmium chloride exhibits a profound toxic effect on bacterial microflora on the mice gastrointestinal tract. *Human and Experimental Toxicology*. 2011. 30(2). 152-159. **IF:2.8**
41. Monsefi M, **Alaee S**, Moradshahi A, Rohani L. Cadmium-induced Infertility in Male Mice. *Environmental Toxicology*. 2009; 25: 94-102. **IF:4.5**

Conferences

1. Lecture presentation at the **23rd National and International Congress of the Iranian Scientific Society of Fertility and Infertility**. 2024, Tehran Iran.
2. **Alaee S**, Zal F, Razban V, Talaie T, Shokri S, Khodabandeh Z. Immature Mouse Oocytes Demonstrate Enhanced Maturation, Fertilization Potential, and Embryo Development Outcomes Following Treatment with Platelet-Rich Plasma. 25th Congress on Reproductive Biomedicine, 2024. Tehran, Iran.
3. **Alaee S**, Khodabandeh Z, Samare-Najaf M, Shokri S, Hosseini E, Dara M. Taurine's Protective Role Against Acrylamide-Induced Ovarian Stress and Apoptosis in Mice, 25th Congress on Reproductive Biomedicine. 2024, Tehran, Iran.
4. **Alaee S**, Bakhtari A, Nazari S, Kargar-Abarghouei E, Mirzaei E. Oxidative stress-dependent toxicity of dextran-coated superparamagnetic iron oxide nanoparticles on mouse embryo produced by in vitro fertilization. 9th Yazd International Congress and Student Award on Reproductive Medicine with 4th Congress of Reproductive Genetics *International Journal of Reproductive BioMedicine*, 2021. Yazd, Iran.
5. Khodabandeh Z, Dolati P, Zamiri MJ, Mehrabani D, Bordbar H, **Alaee S**. The stereological evaluation of testis structure on protective effect of quercetin against lead acetate toxicity. 9th Yazd International Congress and Student Award on Reproductive Medicine with 4th Congress of Reproductive Genetics *International Journal of Reproductive BioMedicine*. 2021, Yazd, Iran.
6. The 1st IVF Worldwide Online Congress. European Accreditation Council for Continuing Medical Education. April 25, 2020
7. **Alaee S**, Khodabandeh Z, Ilani M. Titanium Dioxide Nanoparticle Induces Apoptosis in Mouse Blastocyst. 18th Congress on Reproductive Biomedicine & 13th Congress on Stem Cell Biology and Technology, 2017, Tehran, Iran.

8. **Alaee S**, Sadeghi M, Jafari MB. Effects of Mentha Spicata extract on plasma testosterone, follicle-stimulating hormone and luteinizing hormone levels and ovarian tissue in PCOS induced female rats. 2nd National Congress of Quantitative Microscopic 2016, Shiraz, Iran.
9. **Alaee S**, Sadeghi M, Bagheri MJ, Bahmanpoor S Effect of Mentha spicata Essential oil on ovarian cyst of Polycystic Ovarian Syndrome Rat Model. 2nd National Congress of Quantitative Microscopic, 2016, Shiraz, Iran
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11. **Alaee S**, Sadeghi M, Jafari MB. Effect of Mentha spicata Essential Oil on Ovarian Cysts of Polycystic Ovarian Syndrome Rat Model. 2nd National Congress of Quantitative Microscopic 2016, Shiraz, Iran.
12. **Alaee S**, Sadeghi M, Razban V. Use of rodents as models of endometriosis. 1st National Congress Animal Models in Experimental Medical Researches. 2015, Shiraz, Iran.
13. Razban V, Sadeghi M, Talaie T, **Alaee S**. Decellularization: new medical application for laboratory animals and along their welfare improvements. 1st National Congress Animal Models in Experimental Medical Researches. 2015, Shiraz, Iran.
14. Ekramzadeh M, **Alaee S**. Vitamin D and female fertility. 8th IRHRC Annual Meeting Reproductive and Infertility Updates 2015, Tehran, Iran.
15. **Alaee S**, Talaiekhosani A. Mechanism of cadmium-induced male infertility. ISERB 2015, Tehran, Iran.
16. **Alaee S**. Evaluation of FKBP52 gene expression, associated with endometrial receptivity, in endometrial tissue of women with repeated implantation failure. ISERB 2015, Tehran, Iran.
17. **Alaee S**, Yeganeh F, Ghaffari Novin M, Allahveisi A. Evaluation of progesterone receptor α and β expression in endometrium of women with repeated implantation failure. 2014. 20th National Congress of Fertility and Infertility. Tehran, Iran.
18. **Alaee S**, Ghaffari Novin M, Allahveisi A, Yousefian E, Nazarian H. Use of Spearmint as a herbal plant for treatment of hirsutism. 2013. 6th International Congress IRHRC of Reproductive Health and Fertility Health. Tehran, Iran.
19. Allahveisi A, Ghaffari Novin M, **Alaee S**, Yousefian E. Effect smoking on DNA methylation in women with cervix malignancy. 2013. 6th International Congress IRHRC of Reproductive Health and Fertility Health. Tehran, Iran.
20. Allahveisi A, Ghaffari Novin M, **Alaee S**, Yousefian E. 2013. Effect epigenetic change on human infertility. 2013. 6th International Congress IRHRC of Reproductive Health and Fertility Health. Tehran, Iran.
21. Allahveisi A, Ghaffari Novin M, **Alaee S**, Yousefian E. Role of lifestyle factors on fertility. 2013. 6th International Congress IRHRC of Reproductive Health and Fertility Health. Tehran, Iran.
22. Yousefian E, Ghaffari Novin M, Allahveisi A, **Alaee S**. Obesity and Male Infertility. 2013. 6th International Congress IRHRC of Reproductive Health and Fertility Health. Tehran, Iran.

23. **Alaee S**, monsefi M. Effect of cadmium on oxidative stress of testes in adult male mice. Yazd International congress and 5th Student Award in Reproductive Medicine. 2013. Yazd. Iran.
24. **Alaee S**, Nozhat F. The effects of Mentha Spicata Labiatae extract on reproductive tissues of adult male rats. 2013. 19th National Congress and 4rd International Congress of Fertility and Infertility. Tehran, Iran.
25. **Alaee S**, Ghaffari Novin M. Effect of menopause on Endometrial Receptivity. 2012. 5th International Congress IRHRC of Reproductive Health and Fertility Health. Tehran, Iran.
26. **Alaee S**, Monsefi M. Effects of Cadmium on Reproductive Enzymes of Blood and Reproductive Tissues in Adult Male Mice. 2012. 13th International Congress on Reproductive Biomedicine and 8th Congress on Stem Cell Biology & Technology. Tehran, Iran.
27. **Alaee S**, Monsefi M, Rohani L. The Effects of Cadmium as a Heavy Metal on Fertility and Offspring Growths of Adult Male Mice. 2011. 12th International Congress on Reproductive Biomedicine and 7th Congress on Stem Cell Biology & Technology. Tehran, Iran.
28. **Alaee S**, Monsefi M, Rohani L. The Accumulation of Cadmium in Reproductive Tissues of Adult Male Mice. 2011. 2nd Congress of Society of Clinical Embryology. 23-25 September 2011. Hilton Dalaman Sarigerme. Turkey.
29. Nozhat F, **Alaee S**. The Effects of Mentha spicata Labiatae on Reproductive System of Adult Male Rats. 2011. 20th Iranian Congress of Pharmacology and Physiology., Hamadan University Medical Sciences, Hamadan, Iran.
30. **Alaee S**. The effects of cadmium on sperm maturation and testis structure of adult male mice. 2008. The 5th Asia-Pacific International Congress of Anatomy and The 8th Congress of Anatomical Sciences. Tehran, Iran.
31. **Alaee S**, Monsefi M. The Effect of Cadmium on Reproductive System of Adult Male Mice. 2007. Animal Biology Conference. Guilan, Iran.

Fellowships

- Virtual Fifth of Educational Scholarship & Leadership program. Education Development Center of shiraz University of Medical Sciences. 31th July to August 5th, 2021.
- Research Fellowship. Vice-Chancellor for Research and Technology of shiraz University of Medical Sciences. 16th February to 22th June, 2017.
- Medical Education Fellowship. Education Development Center of shiraz University of Medical Sciences. Febryary to March, 2015.
- The Eighth National Electronic Learning Fellowship Program. Center of Excellence for Electronin Learcing in Medical Sciences. 28th January to 5th March, 2015.