

In The Name of God

Curriculum Vitae (C.V.)

Personal Details:

First Name: Sanaz

Last Name: Alae Jahromi

Date of birth: 27 July 1983

Nationality: Iranian

Marital Status: Married

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Current Position:

- Vice Chancellor of Education, Research and Technology of Department of Reproductive Biology, School of Advanced Medical Sciences and Technologies, Shiraz University of Medical Sciences, Shiraz, Iran.
- Faculty member of Reproductive Biology Department, School of Advanced Medical Sciences and Technologies, Shiraz University of Medical Sciences, Shiraz, Iran.
- Clinical embryologist and Scientific director of IVF laboratory, Hazrat Zeinab Hospital, Shiraz, Iran.
- Director of educational accreditation of 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).

Thesis Title: The study of effects of cadmium on the reproductive system of adult male mice.

PhD: Reproductive Biology

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

Thesis Title: Investigation of expression of Progesterone receptors, FKBP51 and FKBP52 genes related to progesterone hormone signaling in endometrial tissue of women with Repeated Implantation Failure, (2014).

Honors:

- . First rank in PhD entrance exam
- . First top student through out PhD course

Contribution in Scientific Journals:

1. Editor in-chief of Journal of Infertility and Reproductive Biology
2. Deputy editor of Journal of Advanced Medical Sciences and Applied Technologies.
3. American Journal of Biology and Life Sciences

Contribution as reviewer in:

- . Journal of Infertility and Reproductive Biology
- . Human and Experimental Toxicology
- . Medicine Journal
- . American Journal of Biology and Life Sciences
- . Journal of Infertility and Reproduction
- . Journal of Advanced Medical Sciences and Technologies

Teaching:

1. Techniques of Assisted Reproductive Technologies
2. Techniques of *in vitro* Fertilization in human and mice
3. Histology and development of Reproductive System
4. Early development and implantation of embryo
5. Andrology
6. Embryology and Embryology Lab
7. Histology and Histology Lab
8. Physiology and Physiology Lab
9. Animal Biocystematics
10. Teaching the process of Histology and Embryology slides preparation in Workshops (Payame noor University)

Current Projects

1. Evaluation of the potential of fibrin scaffold with decellularized ovarian tissue on maturation of immature oocytes in mice.

2. The effect of platelet rich plasma as liquid or gel scaffold on morphological and ultrastructural characteristics of in vitro matured oocyte.
3. Effects of Dextran Coated Superparamagnetic iron oxide nanoparticles on embryo produced by IVF.
4. Investigating the correlation of seminal plasma interleukin (IL) -35 with semen quality.

Publications

A) International Journals

1. 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. *Int J Fertil Steril*. 2020: 14 (3).
2. Bolouki A, Zal F, Alaee S. Effects of quercetin on the preimplantation embryos development in diabetic pregnant mice. *J Obs Gyn Res*. 2020: 46 (5), 736-74.
3. Alaee A, Yousefian E, Talaiekhosani A, Ziaee GR, Homayoon H. Infertility Knowledge, Attitudes, and Beliefs among Iranian College Students. *J Environ Treat Tech*. 2019: 7 (1), 171-178.
4. 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). *Reprod Fertil Dev*. 2019: 31 (2), 315-323.
5. 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. *Int J Fert Stetil*. 2019: 13(1).
6. Erfani Majd M, Daneshi S, Talaei-Khosani 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. *J Biomed Mat Res Part A*. 2019:

7. **Alaee S**, Yousefian E, Talaiekhosani A, Ziaee GR, Homayoon H. Infertility Knowledge, Attitudes, and Beliefs among Iranian College Students. *J Environ Treat Tech*. 2019; 7 (1), 171-178.
8. 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.
9. 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.
10. 4. 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.
11. 5. 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.
12. 6. 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.
13. 7. 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.
14. 8. **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.

15. 9. **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.
16. 10. 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.
17. 11. 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*. *Avicenna Journal of Phytomedicine*. 2014; 4(6): 420-429.
18. 12. **Alaee S**, Ghaffari Novin M, Yeganeh F. FKBP51 and FKBP52 as potential biomarkers for predicting endometrial receptivity and embryo implantation in assisted reproductive technologies. *Journal of Infertility and Reproductive Biology*. 2014; 2(3): 77-81.
19. 13. **Alaee S**, Ghaffari Novin M, Noroozian M, Yeganeh F, Pakravesh 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.
20. 14. 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.
21. 15. **Alaee S**, Talaiekhosani A, Rezaei S, Alaee K, Yousefian E. Cadmium and Male Infertility. *Journal of Infertility and Reproductive Biology*. 2014; 2(2): 62-69.
22. 16. 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.
23. 17. Monsefi M, **Alaee S**, Moradshahi A, Rohani L. Cadmium-induced Infertility in Male Mice. *Environmental Toxicology*. 2009; 25: 94-102.

24. 18. Fazeli M, Hassanzadeh P, **Alaee S**. Cadmium chloride exhibits a profoun toxic effect on bacterial microflora on the mice gastrointestinal tract. *Human and Experimental Toxicology*. 2011. 30(2). 152–159.

B) Conferences:

1. **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.
2. **Alaee S**, Sadeghi M, Jafari MB. Effects of Mentha Spicata extracts on plasma testosterone, follicle-stimulating hormone and luteinizing hormone levels and ovarian tissue in PCOS induced female rats. 2nd Natinal Congress of Quantitative Microscopic 2016, Shiraz, Iran.
3. **Alaee S**, Sadeghi M, Jafari MB. Effect of Mentha spicata Essential Oil on Ovarian Cysts of Polycystic Ovarian Syndrome Rat Model. 2nd Natinal Congress of Quantitative Microscopic 2016, Shiraz, Iran.
4. **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.
5. Razban V, Sadeghi M, Talaei 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.
6. Ekramzadeh M, **Alaee S**. Vitamin D and female fertility. 8th IRHRC Annual Meeting Reproductive and Infertility Updates 2015, Tehran, Iran.
7. **Alaee S**, Talaiekhosani A. Mechanism of cadmium-induced male infertility. ISERB 2015, Tehran, Iran.
8. **Alaee S**. Evaluation of FKBP52 gene expression, associated with endometrial rereceptivity, in endometrial tissue of women with repeated implantation failure. ISERB 2015, Tehran, Iran.
9. **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.

10. **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.
11. 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.
12. 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.
13. 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.
14. 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.
15. **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.
16. **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.
17. **Alaee S**, Ghaffari Novin M. Effect of menopause on Endometrial Receptivity. 2012. 5th International Congress IRHRC of Reproductive Health and Fertility Health. Tehran, Iran.
18. **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.

19. **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.
20. **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. Hilton Dalaman Sarigerme. Turkey.
21. 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.
22. **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.
23. **Alaee S**, Monsefi M. The Effect of Cadmium on Reproductive System of Adult Male Mice. 2007. Animal Biology Conference. Guilan, Iran.

Additional Information

Experience of some laboratory techniques:

1. 3D Culture of tissue
2. Histology and Embryology slides preparation
3. Semen Analysis
4. Sperm preparation techniques
5. Sperm Staining (Aniline Blue, Toluidine Blue, Acridine Orange,...)
6. Oocyte Retrieval, Selection, Preparation, denudation and Evaluation for IVF and ICSI
7. Oocyte in Vitro Maturation
8. ICSI (Intra Cytoplasmic Sperm Injection)
9. Embryo grading
10. Sperm, Oocyte and Embryo Freezing
11. In Vitro Fertilization
12. PCR and Real Time PCR
13. Tissue decellularization

Participation in Symposiums, Seminars and workshops:

1. Workshop of e-learning. 2016. Shiraz, Iran.
2. Workshop of Peer Review. 2016. Shiraz, Iran.
3. Workshop of Scientometrics. 2015. Shiraz, Iran.
4. Workshop of Peer review. 2015. Shiraz, Iran.
5. 18th National congress and 3rd International Congress of Fertility and Infertility. 2012. Tabriz, Iran.
6. Workshop of writing an article in Reproductive Biomedicine. (2012). Yazd, Iran.
7. Seminars in Unsuccessful IVF and role of Genetic Assays in its reason. 2012. Tehran, Iran.
8. Workshop of Preimplantation Genetic Diagnosis. 2012. Tehran, Iran.
9. Workshop of Writing an article in Reproductive Biomedicine. (2012). Yazd, Iran.
10. International Congress of Reproductive Biomedicine. 2011. Yazd, Iran. 17th National congress and 2nd International Congress of Fertility and Infertility. 2011. Tehran, Iran.
11. Symposium of Reproductive Biomedicine. 2010. Yazd, Iran.
12. Workshop of In Vitro Maturation and Freezing of Human Oocytes. 2010. Yazd, Iran.