

## CURRICULUM VITAE

### **Personal Information:**

- Name and surname: Fatemehsadat Amjadi
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### **Past and Present Positions and Memberships:**

- Embryologist in IVF lab in Akbarabadi Hospital, Tehran, Iran, from 2012 till now.
- Embryologist in IVF lab in Laleh Hospital, Tehran, Iran, 2012 - 2015.
- Assistant professor of Iran University of medical sciences, from 2015 till now.
- Member of reproductive biology core of Cellular and Molecular Research Center.
- Member of Iranian society for reproductive medicine (ISRM).
- Member of Iranian Society of Embryology & Reproductive Biology (ISERB)
- Member of society of stem cell science and technology in reproductive part.

### **Prizes/Awards:**

1. First award winner in 6th Yazd International congress in reproductive medicine. April 2015.
2. Award winner in 15th ESHRE International congress. Lisbon. June 2015
3. Award winner in national research day in Iran University of medical science.2015.

### **Research Interests:**

1. Omics study in reproductive field.
2. In vivo and in vitro study of human endometrium.
3. In vivo and in vitro study to improve human embryo implantation.
4. Human study and animal model study for male and female reproductive disorders (PCOs, endometriosis, RIF patients, Poor responder, azoospermia, oligo-astheno-teratospermia and etc)
5. ART techniques improvement (SA, IUI, IVM, ICSI, IVF, sperm/egg and embryo freezing, embryo biopsy and etc)
6. Biology and pathology of human sperm, oocyte and embryo.

## International Presentations

- **Amjadi F**, Shaghaygh Haghjooy Javanmard, Hamid Zarkesh-Esfahani., Capri, Italy 23-26 October 2010, **Leptin Promotes melanoma tumor growth and NO production in vivo.**
- Zandieh Z, **Amjadi FS**, Amanpoor S, Ashrafi M, Aflatoonian R. **Evaluation of Toll Like Receptors (TLRs) in human fallopian tube cell line(OE\_E6/E7)**.October 2012. Reproductive Biology Symposium. Yazd.
- *Haghjooy Javanmard Shaghayegh, Amjadi Fatemeh Sadat, Zarkesh-Esfahani Hamid, Narimani Manizheh and Khazaei Majid (Clin Biochem 2011) Leptin promotes angiogenesis and tumor growth in vivo*
- Zandieh.Z, **Amjadi.FS**,Ashrafi.M, Aflatoonian. R., Evaluation of Toll Like Receptors (TLRs) expression in human fallopian tube. MEFS (Middle east fertility Society) congress, Sep 2012
- **Fatemehsadat Amjadi**, Ensieh Salehi, Mehdi Mehdizadeh, Reza Aflatoonian. **Role of innate immunity in female reproductive tract**. International embryology congress. Ahvaz. Iran. Feb2013.
- **Amjadi F**, Zandieh Z, Salehi E, Aflatoonian A, Fazeli A, **Variable localization of TLRs in human fallopian tube epithelial cells**. Iran, Isfahan, Fertility & Infertility Society Congress.2014
- **Fatemehsadat Amjadi**, Nasrin Ghasemi, Ensieh Salehi, Mojgan Shakeri, Abbas Aflatoonian, Reza Aflatoonian. **Expression of Toll – like receptors in human fallopian tubes** Iran, Yazd. 5<sup>th</sup> International congress & Student Award in reproductive medicine. April 2013.
- Zandieh Z, **Amjadi FS**, Ashrafi M, Aflatoonian A, Fazeli A, Aflatoonian R. **Hormonal regulation of TLRs in human fallopian tube cells**. Iran.Yazd. 6<sup>th</sup> International congress & Student Award in reproductive medicine. April 2015
- **Amjadi FS**, Mehdizadeh M, Ashrafi M, Mirzaei M, Hosseini Salekdeh Gh, Aflatoonian R. **Proteomic profile of human endometrium in normal compare to polycystic ovarian syndrome**. Yazd. 6<sup>th</sup> International congress & Student Award in reproductive medicine. April 2015.
- **Amjadi FS**, Mehdizadeh M, Ashrafi M, Mirzaei M, Hosseini Salekdeh Gh, Aflatoonian R. **Proteomic profile of human endometrium in polycystic ovarian syndrome compare to normal**. Eshre. Lisbon. June 2015.
- **Member of** "Logical prescription drug in ovulation induction cycles and new protocols ART» **panel in 8th IRHRC Annual Meeting reproductive and infertility update**. 1394.09.26. Shahid Beheshti University of Medical Science.
- Zandieh.Z, **Amjadi.FS**,Ashrafi.M, Aflatoonian. R., Combination of sex hormone can modify TLRs gene expression in human fallopian tube. MEFS (Middle east fertility Society) congress.2016

- **Amjadi FS**, Mehdizadeh M, Ashrafi M, Mirzaei M, Hosseini Salekdeh Gh, Aflatoonian R. **Combind genomic and proteomic analysis of endometrium in polycystic ovarian syndrome compare to normal.** International congress & Student Award in reproductive medicine. Yazd. April 2017.
- Zandieh Z, **Amjadi FS**, Aflatoonian R. **Sperm DNA damage can change the immunological crosstalk between sperm and FRT.** International congress & Student Award in reproductive medicine, Yazd. April 2017.
- Zhaeintan, **Amjadi FS**, Zandieh, Joghataei, Bakhtiari, Aflatoonian R, **Evaluation of hydrocortisone effect on tight junction genes expression of the human fallopian tube.** International congress & Student Award in reproductive medicine, Yazd. April 2017.
- Aflatoonian A, Karimzade, Yousefnejad, Taheripanah, Hosseini,Nikmard. **Amjadi FS**, Hamidi Kariminejad, Aflatoonian B, Aflatoonian R. CGH Array: the first report of its clinical application for PGS in Iran. . International congress & Student Award in reproductive medicine, Yazd. April 2017.
- **Member of “Embryo manipulation and selection in ART” panel** in International congress & Student Award in reproductive medicine, Yazd. April 2017.
- **Member of “egg cryopreservation” panel** in update in fertility preservation congress. Tehran, 2018.
- S.Nematollahi, M.Salehi, M.Mehdizade, **F.Amjadi.** **Long term incubation affects the DNA integrity and methylation of mouse spermatozoa.** The 4<sup>rd</sup> international Congress on Reproduction (ISERB).April 2018.
- **Amjadi.F**, Zandieh.Z, Amiri.S, Mehdizade.M, Aflatoonian.R. **Adaptive immunity play more important role than innate immunity in recurrent implantation failure.** The 4<sup>rd</sup> international Congress on Reproduction (ISERB).April 2018.
- Mohammadi.F, Zandieh.Z, **Amjadi.F**, Aflatoonian.R, Haghghi.M. **The effects of myoinositol on standard parameters, oxidative stress and DNA fragmentation of human cryopreserved sperm.** The 4<sup>rd</sup> international Congress on Reproduction (ISERB).April 2018.
- Ajdary M, Keyhanfar F, **Amjadi FS**, Zandieh Z, Aflatoonian R, Mehdizadeh M. Creating a sustained release of clomiphene citrate upon administration in nano phosal-based formulation (PBF) and assessment of endometrial receptivity genes by influence of Nano clomiphene citrate. International congress & Student Award in reproductive medicine, Yazd. April 2019.
- Salehi Moghaddam Z, Ghahremani F, Jahanbakhsh S, Kiani K, **Amjadi FS**, Aflatoonian R. The tissue engineered uterus by 3D printing. International congress & Student Award in reproductive medicine, Yazd. April 2019.
- Tabatabaei M, **Amjadi FS**, Zare Karizi S, Amiri- Yekta A, Zandieh Z, Akbari Sene A, Aflatoonian R. The effect of myo-inositol on the oocyte quality, fertilization rates and signaling pathway of steroidogenesis in PCOs women undergoing ART cycles. International congress & Student Award in reproductive medicine, Yazd. April 2019
- Asgari F, Govahi A, **Amjadi FS**, Aflatoonian A, Vatannejad A, Aflatoonian R, Zandieh Z. Sperm DNA damage have an effects on embryo aneuploidy in ICSI-CGH array cycles. International congress & Student Award in reproductive medicine, Yazd. April 2019
- Mousavi SO, Mohammadi R, **Amjadi FS**, Aghajanpour S, Eslami M, Aflatoonian R. Different sperm DFI induced fallopian tube response by chemokines. . International congress & Student Award in reproductive medicine, Yazd. April 2019

- Zhaeentan S, **Amjadi FS**, Bakhtiyari M, Joghataei M, Aflatoonian R. The effects of hydrocortisone on tight junction genes in an in vitro model of the human fallopian epithelial cells. International congress & Student Award in reproductive medicine, Yazd. April 2019
- Mohammadi F, Varanloo N, Heydari Nasrabadi M, Vatannejad A, **Amjadi FS**, Javedano Masroor M, Bajelan L, Mehdizadeh M, Aflatoonian R, Zandieh Z. Supplementation of sperm freezing medium with Myoinositol improve human sperm parameters and protects it against DNA fragmentation and apoptosis. International congress & Student Award in reproductive medicine, Yazd. April 2019.
- Haghghi M, Mehdizadeh M, **Amjadi FS**, Zandieh Z, Mohammadi F. The effect of Inofolic on intracellular reactive oxygen species (ROS) and reduced glutathione (GSH) levels in the MII oocyte of DHEA-induced PCOs mice. International congress & Student Award in reproductive medicine, Yazd. April 2019.
- Daei-Farshbaf N, **Amjadi FS**, Taleahmad S, Ashrafi M, Aghajanpour S, Bakhtiyari M, Aflatoonian R. Analysis of olfactory receptors expression in cumulus cells as predictor for maturation level and fertilization outcome of oocyte. International congress & Student Award in reproductive medicine, Yazd. April 2019.
- Tanhaye Kalate Sabz F, Ashrafi M, **Amjadi FS**, Zandieh Z, Bashiri Z. Fertilization failure following ICSI. International congress & Student Award in reproductive medicine, Yazd. April 2019.
- Golkar S, Afsharian P, **Amjadi FS**, Chekini Z, Ghaffari F, Aflatoonian R. Different expression of MUC1, FGF2, HBEGF, CSF1, VEGFA in the female reproductive tract in women with and without ectopic pregnancy. International congress & Student Award in reproductive medicine, Yazd. April 2019.
- Mohammadi F, Ashrafi M, Zandieh Z, Najafi M, Niknafs B, **Amjadi FS**, Haghghi M. The effect of preincubation time on oxidative stress and mitochondrial alteration of mouse MII oocytes in the simple and myo-inositol supplemented media. International congress & Student Award in reproductive medicine, Yazd. April 2019.
- S.O. Mousavi, R. Mohammadi, **F. Amjadi**, S. Aghajanpour, M. Eslami, R. Aflatoonian. Chemokines Alter Fallopian Tube Responses to DNA-Fragmented-Sperm by PCR Array. Eshre 2019.
- Z. Zandieh, A.Gavahi, F.Asgari, **F. Amjadi**, V.Akram, L.Bajelan, A. Aflatoonian, R. Aflatoonian. Sperm DNA Damage have an Effect on aneuploidy-euploidy of Embryos in ICSI-CGH Array Cycles. Eshre 2019.
- A. Akbari sene, **F. Amjadi**, A.Tabatabaie, M.Ashrafi, A.Alizadeh, K. Sheibani5Myo-inositol may improve oocyte quality and fertilization rate in women with polycystic ovary syndrome undergoing assisted reproductive technology cycles. Eshre 2019.
- M. Ajdary, R.Aflatoonian, F. Keyhanfar, **F. Amjadi**, Z.Zandieh, Design and evaluation of a novel nanodrug delivery system for reducing the side effects of clomiphene citrate on the endometrium. Eshre 2020.
- Mousavi, Mohammadi, **F. Amjadi**, Aghajanpour, Eslami, Aflatoonian. “Appropriate response of Fallopian tube cell line to sperms with DNA fragmentation through modulating specific cytokines” Eshre 2020.
- Jamileh Mirsanei, Dr. **Fatemeh Amjadi**, Dr. Zahra Zandieh, Atieh Mousavi. Microfluidic sorting selects sperm as a novel method for clinical use in fertilization failure patients undergoing ICSI. Royan congress.2020

**Publications:**

(Number of papers: 24 papers)

1. **Fatemehsadat Amjadi**, Shaghaygh Haghjooy Javanmard, Hamid Zarkesh-Esfahani, Majid Khazaei.(journal of Experimental & clinical cancer research 2011; 30(1): 21) Leptin promotes melanoma tumor growth in mice related to increasing circulating endothelial progenitor cells numbers and plasma NO production.
2. **Fatemehsadat Amjadi**, Ensieh Salehi, Shaghayegh Haghjooy Javanmard. Role of leptin in fertility. *Journal Of Isfahan Medical School*.2011.
3. شفایق حق جوی جوانمرد، مهدی خورشیدی بهزادی، فاطمه سادات امجدی، حمید خزاعی، حمید زرکش اصفهانی. لپتین به واسطه ی افزایش سلول های پیش ساز اندوتیالی موجب افزایش رشد تومور ملانوما می گردد. مجله دانشکده پزشکی اصفهان ۱۳۹۰.
4. Ensieh Salehi, **Fatemehsadat Amjadi**, Majid Khazaei. Angiogenesis in health and disease: the role of vascular endothelial growth factor.2012.
5. Nasrin Ghasemi, **Fatemehsadat Amjadi**, Ensieh Salehi, Mojgan Shakeri, Abbas Aflatoonian, Reza Aflatoonian. Expression of Toll – like receptors in human fallopian tubes. Iranian Journal of reproductive medicine.2013.
6. **Amjadi F.**, Salehi, E., Aflatoonian, R., Role of innate immunity in female reproductive tract. Advanced Biomedical Research. 2013.
7. Zahra Zandieh, **Fatemehsadat Amjadi**, Abbas Aflatoonian, Alireza Fazeli and Reza Aflatoonian. Sex hormones alter Toll-Like Receptor expression in human fallopian tube epithelial cells in vitro. Cell journal.2014.
8. Saifi, Bita; Aflatoonian, Reza; Tajik, Nader; Erfanian Ahmadpour, Mahmood; Vakili, Rosita; **Amjadi, Fatemehsadat**; Valizade, Narges; Ahmadi, Sanaz; Rezaee, Seyed Abdolrahim; Mehdizadeh, Mehdi. T regulatory markers expression in unexplained recurrent spontaneous abortion. The Journal of Maternal-Fetal & Neonatal Medicine.2015.
9. **Fatemehsadat Amjadi**, Mehdi Mehdizadeh, Shaghayegh Haghjoo Javanmard, Bita Saifi, Mahnaz Ashrafi, Reza Aflatoonian, Apolipoprotein A1 as a novel anti-implantation biomarker in polycystic ovary syndrome. Journal of research in medical science. 2015.
10. **Amjadi Fatemeh Sadat**, Haghjooy Javanmard Shaghayegh, Zarkesh-Esfahani Hamid. Leptin serves as angiogenic/mitogenic factor in melanoma tumor. Advanced Biomedical Research. 2016.
11. Elham Mohammadzadeh, **Fatemeh-Sadat Amjadi**, Mansoureh Movahedin, Zahra Zandieh, Zohreh Nazmara, Neda Eslahi, Peymaneh Shirinbayan, Hamid Reza Asgari, Nahid Azad, Maryam Salimi, Morteza

Koruji. In vitro development of embryos from experimentally Kerack-addicted Mice. Int J Reprod BioMed. 2017.

12. **Fatemehsadat Amjadi**, Zahra Zandieh, Ensieh Salehi, Reza Jafari, Nasrin Ghasemi, Abbas Aflatoonian, Alireza Fazeli, Reza Aflatoonian Variable localization of TLRs in human fallopian tube epithelial cells. Clinical and Experimental Reproductive Medicine.2017.
13. **Fatemehsadat Amjadi**, Mehdi Mehdizadeh, Mahnaz Ashrafi, Davood Nasrabadi, Sara Taleahmad, Mehdi Mirzaei, Vivek Gupta, Ghasem Hosseini Salekdeh, Reza Aflatoonian. Distinct changes in the proteome profile of endometrial tissues in polycystic ovary syndrome compared with healthy fertile women. Reproductive Biomedicine Online. 2018.
14. Shahrzad Zhaeentan, **Fatemeh Sadat Amjadi**, Zahra Zandie, Mohammad Taghi Joghataei, Mehrdad Bakhtiyari, Reza Aflatoonian. The effects of hydrocortisone on tight junction genes in an in vitro model of the human fallopian epithelial cells. European Journal of Obstetrics and Gynecology. 2018.
15. **Fatemehsadat Amjadi** , Ensieh Salehi , Zahra Zandieh , Mandana Rashidi , Sara Taleahmad ,Mojgan Javedani masrour 5, Reza Aflatoonian 6, Mehdi Mehdizadeh . Comparative evaluation of NOTCH signaling molecules in theendometrium of women with various gynecological diseases during the window of implantation. Iranian journal of basic medical sciences. 2018
16. Zahra Zandieh, **Fatemehsadat Amjadi**, Haghigat Vakilian, Khashayar Aflatoonian, Elham Amrichaghmaghi, Alireza Fazeli, Reza Aflatoonian. Sex hormones alter the response of Toll-like receptor3 to its specific ligand in fallopian tube epithelial cells. Clinical and Experimental Reproductive Medicine. 2018
17. Sedigheh Nematollahi , Mehdi Mehdizadeh , Sara Hosseini , Maryam Kashanian , **Fatemeh . Amjadi** , Mohammad Salehi. DNA integrity and methylation changes of mouse spermatozoa following prolonged incubation. Andrologia.2019.
18. Azadeh Akbari Sene · Azam Tabatabaie · Hossein Nikniaz · Ahad Alizadeh · Kourosh Sheibani · Mona Mortezapour Alisaraie · Maryam Tabatabaie · Mahnaz Ashrafi · **Fatemehsadat Amjadi**. The myo- inositol effect on the oocyte quality and fertilization rate among women with polycystic ovary syndrome undergoing assisted reproductive technology cycles: a randomized clinical trial. Archives of Gynecology and Obstetrics.2019
19. F. Mohammadi . N. Varanloo . M. Heydari Nasrabadi . A. Vatannejad .**F. S. Amjadi** . M. Javedani Masroor . L. Bajelan . M. Mehdizadeh .R. Aflatoonian . Z. Zandieh. Supplementation of sperm freezing medium with myoinositol improve human sperm parameters and protects it against DNA fragmentation and apoptosis. Cell Tissue Bank. 2019
20. Sadegh Ghorbani, Hossein Eyni, Zahra khosrowpour, Leila Salari Asl, Ronak Shabani, Hojjatollah Nazari, Mehdi Mehdizadeh, Majid Ebrahimi Warkiani, **FatemehSadat Amjadi** . Spermatogenesis Induction of

Spermatogonial Stem Cells using Nanofibrous Poly (L-Lactic Acid)/Multi-Walled Carbon Nanotube Scaffolds and Naringenin. Polymers for Advanced Technologies.2019.

21. Afsaneh Ghasemi, **Fatemehsadat Amjadi**, Masoumeh Ghazimirsaeed, Robabeh Mohammad beigi, Samaneh Ghasemi, Yousef Moradi, Tahereh Ghazimirsaeed . Effect of Myo-inositol on Sperm Parameters and Fertility Rate in Patients withOligoasthenospermia Treated with IUI: A Randomized Clinical Trial. International journal of reproductive biomedicine.2019
22. افسانه قاسمی، زهرا درودیان، مریم برکت، **فاطمه السادات امجدی**، مریم طباطبایی "بررسی ارتباط بین میزان هورمون آنتی مولرین گندوتزوپین کوریونیک انسانی مایع فولیکولی و بلوغ تحملک" مجله طب جنوب، سال ۱۳۹۸
23. Marziyeh Ajdary,Fariborz Keyhanfar, Reza Aflatoonian, Amir Amani, **Fatemehsadat Amjadi**, Zahra Zandieh, Mehdi Mehdizadeh "Design and evaluation of a novel nanodrug delivery system for reducing the side effects of clomiphene citrate on endometrium" DARU Journal of Pharmaceutical Sciences. 2019.
24. Fatemeh Mohammadi , Mahnaz Ashrafi, Zahra Zandieh, Mohammad Najafi, Behrooz Niknafs, Fatemeh Sadat Amjadi, Maryam Haghghi. The Effect of Preincubation Time and Myo-inositol Supplementation on the Quality of Mouse MII Oocytes. Journal of Reproduction & Infertility.2019
25. **Fatemehsadat Amjadi**, Zahra Zandieh, Mehdi Mehdizadeha, Samaneh Aghajanpoura, Ehsan Raoufi, Azin Aghamajidi, Reza Aflatoonian."The uterine immunological changes may be responsible for repeated implantation failure". Journal of reproductive immunology. 2020.
26. Marziyeh Ajdary1, 2 Ph.D., Zahra Zandieh3 D.V.M., Ph.D., **Fatemehsadat Amjadi Ph.D.**, Fariborz Keyhanfar Ph.D., Mehdi Mehdizadeh Ph.D., Reza Aflatoonian M.D., Ph.D. Interaction of sperm with endometrium can regulate genes involved in endometrial receptivity pathway in mice: An experimental study. International Journal of Reproductive BioMedicine.2020
27. Mehdi Alikhani1 · **Fatemehsadat Amjadi**,Mehdi Mirzaei· Yunqi Wu· Faezeh Shekari · Mahnaz Ashraf · Mehdi Mehdizadeh · Matthew McKay· Sara Taleahmad · Samaneh Aghajanpour · Vivek Gupta · Hossein Baharvand· Reza Afatoonian · Ghasem Hosseini Salekdeh. Proteome analysis of endometrial tissue from patients with PCOS reveals proteins predicted to impact the disease.2020.
28. Neda DAEI-FARSHBAF1 , Reza AFLATOONIAN , **Fatemehsadat Amjadi**,Sara TALEAHMAD , Mahnaz ASHRAFI , Mehrdad BAKHTIYARI. Expression pattern of olfactory receptor genes in human cumulus cells as an indicator for competent oocyte selection. Turkish Journal of Biology.2020
29. Fatemeh Asgari, Azam Gavahi, Mehrdad Karimi, Akram Vatannejad, **Fatemehsadat Amjadi**, Reza Aflatoonian & Zahra Zandieh. Risk of embryo aneuploidy is affected by the increase in sperm DNA damage in recurrent implantation failure patients under ICSI-CGH array cycles. Human Fertility.2021
30. Neda Daei-Farshbaf, Reza Aflatoonian , Fatemeh-sadat Amjadi, Hossein Nikniyaz , Sara Taleahmad , Mehrdad Bakhtiyari. Identification of calcineurin as a predictor of oocyte quality and fertilization competence based on microarray data. Computational Biology and Chemistry. 2021
31. Fatemeh Mohammadi (MSc) , Zohreh Mehdinia (MSc) , Samaneh Ghasemi (BSc), Zahra Zolfaghari (MSc) ,**Fatemehsadat Amjadi (PhD)** , Mahnaz Ashrafi (MD) ,Zahra Zandieh (PhD). Relationship between sperm parameters and clinical outcomes of Intra Uterine Insemination (IUI). Caspian J Intern Med.2021

32. Seyed Omidreza Mousavi , Roudabeh Mohammadi , **Fatemehsadat Amjadi** , Zahra Zandieh , Samaneh Aghajanpour , Khashayar Aflatoonian , Marjan Sabbaghian , Maryam Eslami , Tahereh Madani, Reza Aflatoonian. Immunological response of fallopian tube epithelial cells to spermatozoa through modulating cytokines and chemokines. Journal of Reproductive Immunology.2021.
33. Samaneh Aghajanpour, Elham Hosseini, Elham Amirchaghmaghi1,3 Zahra Zandieh, **Fatemehsadat Amjadi**, Azar Yahyaei, Zahra Zolfaghari, Khashayar Aflatoonian, Mahnaz, Ashrafi1, Reza Aflatoonian1\*. Differential expression of innate/adaptive immunity genes induced by endometrial scratching as a hopeful approach for implantation boosting in unexplained, repeated implantation failure: An RCT. Journal of reproductive immunology. 2021.

Books:

- Transgen in reproductive science, 2015.
- Longman,s Medical Embryology, 2016.
- Assisted Reproductive Techniques (Gardner), 2019.
- انجمناد در روش‌های کمک باروری اسپرم و بافت بیضه . ۱۳۹۸.
- Overview of infertility & Assisted Reproductive Techniques