

## CURRICULUM VITAE

### PERSONAL INFORMATION

Name: **Mohammad Ali Khalili**  
Title: Professor of Embryology  
Academic Position: ART lab director & Education deputy of Infertility Center  
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### EDUCATION

2001-2002 Embryologist/ Research Scientist  
Kentucky Center for Reproductive Medicine &  
University of Kentucky College of Medicine, Lexington, KY, USA

1989-1994 Ph.D. ANATOMICAL SCIENCE  
University of Sheffield, U.K. &  
University of Mississippi Medical Center, MS, USA

1986-1989 Ph.D. CELL BIOLOGY  
incomplete Memphis State University, TN, USA

1984-1985 M.S. BIOLOGY  
Middle Tennessee State University, TN, USA

1980-1983 B.S. BIOLOGY  
Middle Tennessee State University, TN, USA

### PROFESSIONAL EXPERIENCES

2004-2007 Fertility & Infertility Research Center  
Isfahan University of Medical Sciences, Isfahan, Iran

1995-2004 & 2008- Professor of Embryology  
Department of Biology & Anatomical Sciences  
Shahid Sadoughi University of Medical Sciences

1995-2004 & 2007- Clinical Embryologist & ART Lab Director  
Research & Clinical Center for Infertility,  
Shahid Sadoughi University of Medical Sciences, Yazd.

1998-2001                      Reproductive Medicine Lab Director, Mojibian Private Hospital, Yazd

### **LINES of RESEARCH INTEREST**

Assisted Reproductive Technology (Embryology), IVM, Fertility Preservation, Mesenchymal Stem Cell, IVF Quality Control.

### **TECHNICAL EXPERIENCES**

**Clinical:** Semen Analysis, Sperm Function Tests, Sperm Chromatin Integrity Assays, IUI, IVF, IVM, ICSI, IMSI, AZH, Embryo Biopsy, Microinjection Pipette Preparation, Culture Media Preparation, ART Lab Quality Control, Cryopreservation, Oocyte & Embryo Manipulations, Apoptosis.

**Experimental:** Microtechniques, Electron Microscopy (TEM & SEM), Immunocytochemistry, Cell Recording, Animal Surgery, Adult Stem Cell Technology, Tissue Culture, Experimental IVF & Embryology, Tissue Cryosectioning.

### **TEACHING EXPERIENCE**

1995- Present                      Reprod Embryology, ART & Implantation, Quality Control, IVF in Mouse, Bioethics in Rep Med, Anatomy, Med Terminology Research & Clinical Center for Infertility, School of Medicine Yazd University of Medical Sciences, Yazd

1995- 2005                      Courses Taught: Embryology, Histology  
School of Midwifery & Nursing  
Yazd University of Medical Sciences, Yazd

1990-1992                      Lab. Taught: Med. Neurobiology, Histology  
School of Medicine  
University of Mississippi Medical Center, MS, USA

1987-1989                      Lab. Taught: Nursing Anatomy & Physiology, Zoology  
Department of Biology  
Memphis State University, USA

### **PUBLICATION in INTERNATIONAL JOURNALS**

#### **h-index 2017: 15**

1. **Khalili MA**, Vahidi S, Aflatounian A, Karimzadeh MA, Amir-Arjmand MH. Intracytoplasmic sperm injection for the treatment of male factor infertility- the first preliminary report from Iran. *Medical Journal of IR Iran* 11: 181-5; 1997.

2. **Khalili MA**, Kalantar SM, Vahidi S, Ghafour-Zadeh. Failure of fertilization following intracytoplasmic injection of round-headed sperm. *Annals of Saudi Medicine* 18: 408-11; 1998.
3. **Khalili MA**, Clower BR, Iwasa K. Anatomic correlation between intimal pathology and cerebral vasospasm following subarachnoid hemorrhage. *Medical Journal of IR Iran* 12: 25-9; 1998.
4. **Khalili MA**, Mir-Rokni F, Kalantar SM. Application of vitality tests on asthenozoospermia semen from infertile men. *Iranian Biomedical Journal* 3: 77-81; 1999. \*
5. **Khalili MA**, Pourshafie MR, Saifi M, Khalili MB. Bacterial infection of the reproductive tract of infertile men in Iran. *Middle East Fertility Society Journal* 5: 126-31; 2000.
6. **Khalili MA**, Clower BR. Correlation between endothelial injury and cerebral vasospasm following double subarachnoid hemorrhage in rat. *Medical Journal of IR Iran* 16: 56-60; 2001.
7. **Khalili MA**, Vahidi S, Fallah-Zadeh H. The effect of penoxifylline on motility of spermatozoa from asthenozoospermic samples: ejaculates, cryopreserved ejaculates, epididymal, and testicular. *Middle East Fertility Society Journal* 6: 89-96; 2001. \*
8. **Khalili MA**, Moinia F. Role of embryo morphology and cumulative embryo score in pregnancy outcome from in vitro fertilization and intracytoplasmic sperm injection cycles. *Middle East Fertility Society Journal* 7: 231-6; 2002.
9. **Khalili MA**, Aflatoonian A, Zavos PM. Intracytoplasmic injection using spermatids and subsequent pregnancies: Round versus elongated spermatids. *Journal of Assisted Reproduction & Genetics* 18: 65-8; 2002.
10. **Khalili MA**, Rabchevsky AG. Restoration of spermatogenesis by adenoviral gene transfer into injured spinal cords of rats. *Iranian Journal of Reproductive Medicine* 1: 7-11; 2003.
11. **Khalili MA**, Manouchehri MA, Dehghani V. Analysis of treatment outcome following intracytoplasmic injection of sperm retrieved from the ejaculate, epididymis, or testis of infertile men in Iran. *Archives of Iranian Medicine* 7: 232-6; 2004.
12. Dehghani V, **Khalili MA**, Zamani N, Darezereshki F. Comparison between semen parameters of ejaculates collected via masturbation versus coitus interruptus. *Iranian Journal of Reproductive Medicine* 2: 9-11; 2004.
13. **Khalili MA**, Mojibian M, Sultan AM. Role of oocyte morphology on fertilization and embryo formation in assisted reproductive techniques. *Middle East Fertility Society Journal* 10: 1-6; 2005.
14. Yassini SM, **Khalili MA**, Hashemian Z. The level of anxiety and depression among Iranian infertile couples undergoing in vitro fertilization or intracytoplasmic sperm injection cycles. *Journal of Research in Medical Sciences* 10: 22-6; 2005.
15. Moein MR, **Khalili MA**, Davoudi A. The effect of oral administration of Pentoxifylline on sperm motility of asthenozoospermic ejaculates from men with or without testicular varicoceles. *Iranian Journal of Reproductive Medicine* 3: 25-9; 2005. \*

16. Amopour H, **Khalili MA**, Mohiti MJ, Solaimani M. Rate of cumulus cell apoptosis from fertilized and unfertilized oocytes and acid phosphatase levels in follicular fluids after intracytoplasmic sperm injection. *Iranian Biomedical Journal* 9: 163-7; 2005.
17. **Khalili MA**, Aghai-Maibodi F, Anvari M, Talebi AR. Assessment of sperm nuclear DNA in ejaculates of fertile and infertile men: correlation with semen parameters. *Urology Journal* 3: 154-9; 2006. \*
18. **Khalili MA**, Isoglu M, Ghasemi M. Attitudes of Christian and Muslims to an oocyte donation program in Iran. *Eubios Journal of Asian & International Bioethics* 16: 66-71; 2006.
19. Talebi AR, **Khalili MA**, Hossaini A. Assessment of nuclear DNA integrity of epididymal spermatozoa following chronic spinal cord injury in the rat. *International Journal of Andrology* 30: 163-8; 2007.
20. **Khalili MA**, Anvari M. The effect of in vitro culture on cleavage rates and morphology of the in vivo-developed embryos in mice. *Iranian Journal of Reproductive Medicine* 5: 17-22; 2007.
21. Sills ES, Qublan HS, Blumenfeld Z, Dizaj AV, Revel A, Coskun S, Jaoude IA, Serous G, Eskandar M, **Khalili MA**, Demiroglu A, Trokoudes K, Ocal P, Sultan AM, El-Kareh A. Regional clinical practice patterns in reproductive endocrinology: A collaborative transnational pilot survey of in vitro fertilization programs in the middle east. *Journal of Clinical & Experimental Assisted Reproduction* 4: 1-6; 2007.
22. **Khalili MA**, Razavi V, Mardanian F, Esfandiari N. The predictive value of pronuclear morphology screening on embryo development and pregnancy outcome in ART cycles. *Middle East Fertility Society Journal* 13: 203-9; 2008.
23. **Khalili MA**, Isikoglu M, Tabibnejad N, Ahmadi M, Abed F, Parsanejad ME, Ghasemi M, Hachem el Jamal H. IVF staff attitudes towards Oocyte Donation: A Multi-centric Study from Iran and Turkey. *Reprod Biomed Online*: 17:61-6; 2008.
24. Anvari M, **Khalili MA**, Agha-Rahimi A. Comparison between quality of cryopreserved embryos generated from short and long gamete incubation. *Int J Fertil Steril* 2: 179-84; 2009.
25. **Khalili MA**, Zare-Zadeh N, Hashemi H. Correlation between serum lipids profile with sperm parameters of infertile men with abnormal semen analysis. *Iran J Reprod Med* 7: 123-7; 2009.
26. Salehi-vaziri M, Monavari SH, **Khalili MA**, Shamsi-Shahrabadi M, Keyvani H, Mollaei H, Fazlalipour M. Detection of HSV-1 DNA in the Semen of Infertile Men and Evaluation of its Correlation with Semen Parameters in Iran. *Iran J Virol*. 4(2): 1-6, 2010.
27. Talebi, AR Abbasi A, **Khalili MA**, Tabibnejad, N. Effect of ethanol consumption on chromatin condensation and DNA integrity of epididymal spermatozoa in rat. *Alcohol* 45: 405-9; 2011. \*
28. Nazari S, **Khalili MA**, Mohsenzadeh M. Maturation capacity, morphology and morphometric assessments of human immature oocytes after vitrification and in vitro maturation. *Iran J Reprod Med* 9: pp; 2011.

29. **Khalili MA**, Anvari M, Hekmati-Moghadam MH, Fesahat A, Sadeghian F, Miresmaili SM. Therapeutic benefit of intravenous transplantation of mesenchymal stem cells after experimental subarachnoid hemorrhage in rats. *J Stroke and Cerebrovascular Diseases*. 21(6):445-51; 2012.
30. Halvaei I, **Khalili MA**, Soleimani M, Razi MH. Role of first polar body morphology on rates of fertilization and embryo development in ICSI cycles. *Int J Fertil Infertil* 5: 110-15; 2011.
31. Falahati SA, Anvari M, **Khalili MA**. Effects of combined magnetic fields on human sperm parameters. *Iran J Radiation Research* 9: pp ;2011.(short report) \*
32. Mohsenzadeh M, **Khalili MA**, Nazari S, Hemayat-Khah Jahromi V, Agharahimi A, Halvaei I. Effect of vitrification on morphology and in-vitro maturation outcome of human immature oocytes. *Ital J Ant Embryo* 117(3):190-8; 2012.
33. **Khalili MA**, Kahraman S, Ugur MG, Agha-Rahimi A, Tabibnejad N. Follow up of infertile patients after failed ART cycles: a preliminary report from Iran and Turkey. *Eur J Obst Gyn Reprod Bio* 161: 38–41; 2012.
34. Eftekhari M, **Khalili MA**, Aflatoonian A, Esfandiari N. Successful pregnancy following a novel endometrial preparation in a PCOS patient undergoing IVF: a case report. *J Assist Reprod Genet*; 29(4):335-6; 2012.
35. Eftekhari M, **Khalili MA**, Rahmani E. The efficacy of recombinant versus urinary HCG in ART outcome. *Iran J Reprod Med*. 10(6):543-8, 2012.
36. Absalan A, Mohiti-Ardakani J, Hadinedoushan H, **Khalili MA**. Hydro-Alcoholic cinnamon extract, Enhances glucose transporter isotype-4 translocation from intracellular compartments into the cytoplasmic membrane of C2C12 myotubes. *Ind J Clin Biochem* ; 27 (4), 351-356, 2012.
37. Halvaei I, **Khalili MA**, Razi MH, Nottola SA. The effect of immature oocytes quantity on the rates of oocytes maturity and morphology, fertilization, and embryo development in ICSI cycles. *J Assist Reprod Genet*; 29:803–810; 2012.
38. **Khalili MA**, Maione M, Palmerini MG, Bianchi S, Macchiarelli G, Nottola SA. Ultrastructure of human mature oocytes after vitrification. *Eur J Histochemistry* 56: 236-42; 2012.
39. Shahedi A, Hosseini A, **Khalili MA**, Norouzian M, Salehi M, Piriaei A, Nottola SA. The effect of vitrification on ultrastructure of human in vitro matured germinal vesicle oocytes. *Eur J Obstet Gynecol Reprod Biol*. 167(1):69-75; 2013.
40. **Khalili MA**, A Nottola S, Shahedi A, Macchiarelli G. Contribution of human oocyte architecture to success of in vitro maturation technology. *Iran J Reprod Med*. 11(1):1-10; 2013. Review.
41. Talebi AR, **Khalili MA**, Vahidi S, Ghasemzadeh J, Tabibnejad N. Sperm chromatin condensation, DNA integrity, and apoptosis in men with spinal cord injury. *J Spinal Cord Med*. 36 (2):140-6; 2013. \*
42. Halvaei I, **Khalili MA**, Razi MH, Agha-Rahimi A, Nottola SA. Impact of different embryo loading techniques on pregnancy rates in in vitro fertilization/embryo transfer cycles. 6(1):65-9; 2013.

43. Shahedi A, **Khalili MA**, Soleimani M, Morshedizad S. Ultrastructure of in vitro Matured Human Oocytes. *Iran Red Crescent Med J*. 15(12):e7379; 2013.
44. Barkhordari A, Hekmatimoghaddam S, Jebali A, **Khalili MA**, Talebi A, Noorani M. Effect of zinc oxide nanoparticles on viability of human spermatozoa. *Iran J Reprod Med*. 11(9):767-71; 2013.
45. Nabi A, Khalili MA, Halvaei I, Ghasemzadeh J, Zare E. Seminal bacterial contaminations: Probable factor in unexplained recurrent pregnancy loss. *Iran J Reprod Med*. 11(11):925-32; 2013.
46. Omidi M, **Khalili MA**, Nahangi H, Ashourzadeh S, Rahimipour M. Does women's age influence zona pellucida birefringence of metaphase II oocytes in in-vitro maturation program? *Iran J Reprod Med*. 11(10):823-8; 2013.
47. Yazdanpanah F, **Khalili MA**, Eftekhari M, Karimi H. The effect of vitrification on maturation and viability capacities of immature human oocytes. *Arch Gynecol Obstet*. 288(2):439-44; 2013.
48. Omidi M, **Khalili MA**, Ashourzadeh S, Rahimipour M. Zona pellucida birefringence and meiotic spindle visualisation of human oocytes are not influenced by IVM technology. *Reprod Fertil Dev*. 26(3):407-13; 2014.
49. Agha-Rahimi A, **Khalili MA**, Nabi A, Ashourzadeh S. Vitrification is not superior to rapid freezing of normozoospermic spermatozoa: effects on sperm parameters, DNA fragmentation and hyaluronan binding. *Reprod Biomed Online*. 28(3):352-8; 2014
50. Nabi A, **Khalili MA**, Halvaei I & Roodbari F. Prolonged incubation of processed human spermatozoa will increase DNA fragmentation. *Andrologia*. 46(4):374-9, 2014
51. Khoradmeh A , **Khalili MA**, Ramezani M, Vahidi S, Moein MR, Halvaei I. Consumption of Iranian Herbal Medicine by Infertile Men Can Improve Pregnancy Outcome. *Advances in Environmental Biology Journal*. 8(4): 874-879; 2014.
52. Halvaei I, **Khalili MA**, Ghasemi-Esmailabad S, Nabi A, Shamsi F. Zoroastrians support oocyte and embryo donation program for infertile couples. *J Reprod Infertil*. 15(4):222-8; 2014.
53. Etebary S, Yari N, Golestan Jahromi M, **Khalili MA**. Are ART outcomes more successful in younger women? A retrospective study. *J Obstet Gynaecol*. 19:1-4; 2014.
54. Anbari F, **Khalili MA**, Bahrami AR, Khoradmeh A, Sadeghian F, Fesahat F, Nabi A. Intravenous transplantation of bone marrow mesenchymal stem cells promotes neural regeneration after traumatic brain injury. *Neural Regen Res*. 9(9):919-23; 2014.
55. Palmerini MG, Antinori M, Maione M, Cerusico F, Versaci C, Nottola SA, Macchiarelli G, **Khalili MA**, Antinori S. Ultrastructure of immature and mature human oocytes after cryotop vitrification. *J Reprod Dev*. 60(6):411-20; 2014.
56. Pouretezari M, Talebi A, Abbasi A, **Khalili MA**, Mangoli E, Anvari M. Effects of acrylamide on sperm parameters, chromatin quality, and the level of blood testosterone in mice. *Iran J Reprod Med*. 12(5):335-42; 2014

- 57. Khalili MA**, Adib M, Halvaei I, Nabi A. Vitriification of neat semen alters sperm parameters and DNA integrity. *Urol J.* 6;11(2):1465-70; **2014**.
- 58. Khalili MA**, Dehghan M, Nazari S, Agha-Rahimi A. Assessment of ovarian tissues autografted to various body sites followed by IVM in mouse. *Iran J Reprod Med.* 12(3):199-204; **2014**
- 59.** Pourmovahed Z, Yassini Ardekani SM, **Khalili MA**, Halvaei I, Nabi A, Ghasemi M, Fesahat F. The comparison of anxiety and depression rate between medical staff of infertility centers and obstetrics and gynecology centers of Yazd, Shiraz, Isfahan and Kerman hospitals. *Iran J Reprod Med.* 12(3):183-8; **2014**.
- 60. Khalili MA**, Sadeghian-Nodoushan F, Fesahat F, Mir-Esmaili SM, Anvari M, Hekmati-Moghadam SH. Mesenchymal stem cells improved the ultrastructural morphology of cerebral tissues after subarachnoid hemorrhage in rats. *Exp Neurobiol.* 23(1):77-85; **2014**.
- 61. Khalili MA**, Nazari S, Dehghani-Firouzabadi R, Talebi A, Baghazadeh-Naeini S, Sadeghian-Nodoshan F, Agha-Rahimi A. Comparing the roles of sperm chromatin integrity and apoptosis in intrauterine insemination outcomes of couples with mild male and female factor infertility. *J Reprod Infertil.* 15(1):35-40; **2014**.
- 62.** Ashourzadeh S, **Khalili MA**, Omid M, Nematollahi Mahani SN, Kalantar SM, Aflatoonian A, Habibzadeh V. Noninvasive assays of in vitro matured human oocytes showed insignificant correlation with fertilization and embryo development. *Arch Gynecol Obstet.* **2015** Feb 292(2):459-63.
- 63.** 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** Apr;13(4):237-42.
- 64.** Ghasemzadeh J, Talebi AR, **Khalili MA**, Fesahat F, Halvaei I, Nabi A, Ashourzadeh S, Sperm parameters, protamine deficiency, and apoptosis in total globozoospermia. *Iran J Reprod Med.* **2015** Aug; 13(8): 495–502.
- 65.** Ghazali SH, Talebi AR, **Khalili MA**, Aflatoonian A, Esfandiari N. Large nuclear vacuoles in spermatozoa negatively affect pregnancy rate in IVF cycles. *Iran J Reprod Med.* **2015** Jul; 13(7): 425–432.
- 66.** Omid M, Halvaei I, Mangoli E, **Khalili MA**, Razi MH. The effect of embryo catheter loading technique on the live birth rate. *Clin Exp Reprod Med.* **2015** Dec; 42(4): 175–180.
- 67. I Halvaei, MA Khalili, SA Nottola. A novel method for transmission electron microscopy study of cytoplasmic fragments from preimplantation human embryos. Microscopy Research and Technique March 2016.**
- 68.** Anbari F, Halvaei I, Nabi A, Ghazali SH, **Khalili MA**, and Johansson L. The quality of sperm preparation medium affects the motility, viability, and DNA integrity of human spermatozoa. *J Hum Reprod Sci.* **2016** Oct-Dec; 9(4): 254–258.
- 69.** Halvaei I, **Khalili MA**, Esfandiari N, Safari S, Talebi AR, Miglietta S, Nottola S. Ultrastructure of cytoplasmic fragments in human cleavage stage embryos. *J Assist Reprod Genet.* December **2016**, 33(12), 1677–1684.

70. Safian F, **Khalili MA**, Khoradmehr A, Anbari F, Soltani S, Halvaei I. Survival Assessment of Mouse Preimplantation Embryos After Exposure to Cell Phone Radiation. *J Reprod Infertil.* 2016 Jul-Sep; 17(3): 138–143.
71. Miglietta S, Agha-Rahimi A, **Khalili MA**, Moradi A, Antonouli S, Stefania Nottola S. Morphology and viability of human spermatozoa vitrified with a new, cryoprotectant-free, artificial seminal fluid.. *Italian Journal of Anatomy and Embryology, 2016*
72. Safari S, Faramarzi A, Agha-Rahimi A, **Khalili MA**. Live birth in a woman with recurrent implantation failure and adenomyosis following transfer of refrozen-warmed embryos. *Clin Exp Reprod Med.* 2016 Sep;43(3):181-184.
73. Rahiminia T, Faramarzi A, Khoradmehr A, **Khalili MA**. Cumulus co-culture system does not improve the in-vitro maturation (IVM) of oocytes in mice. *Middle East Fertility Society Journal 2016.*
74. Nabi A, **Khalili MA**, Talebi AR, Mangoli E, Yari N, Nottola S, Miglietta S, Taheri F. In-Vitro Application of Pentoxifylline Preserved Ultrastructure of Spermatozoa After Vitrification in Asthenozoospermic Patients. *Urology 2017.*
75. **Khalili MA**, Halvaei I, Ghazali S, Razi MH. Performing ICSI with commercial microinjection pipettes enhanced pregnancy rates. *Turk J Med Sci.* 2017 Jun 12;47(3):801-805. 69.
76. Fesahat F, Sheikha MH, Kalantar SM, Tabibnejad N, Firouzabadi RD, Saeedi H, **Khalili MA**. Developmental competence and apoptotic gene expression patterns of mature and immature human oocytes retrieved from controlled ovarian stimulation cycles. *Reprod Biol.* 2017 Nov 28.
77. Hosseini A. **Khalili MA**. Improvement of motility after culture of testicular spermatozoa: the effects of incubation timing and temperature. *Transl Androl Urol.* 2017 Apr; 6(2): 271–276.
78. Yari N, Etebary S, **Khalili MA**, Talebi AR. Cryopreservation enhances vacuolization in human spermatozoa. *Asian Pacific Journal of Reproduction.* 2017.
79. Faramarzi A, **Khalili MA**, Agha-Rahimi A, Omid M. Is there any correlation between oocyte polarization microscopy findings with embryo time lapse monitoring in ICSI program? *Arch Gynecol Obstet.* 2017 Jun; 295(6):1515-1522.
80. Faramarzi A, **Khalili MA**, Ashourzadeh S. Oocyte morphology and embryo morphokinetics in an intra-cytoplasmic sperm injection programme. Is there a relationship? *Zygote.* 2017 Apr;25(2):190-196.
81. **Khalili MA**, Agha-Rahimi A, Sadeghian F, Halvaei I. No cytotoxic effects from application of pentoxifylline to spermatozoa on subsequent pre-implantation embryo development in mice. *Middle East Fertility Society Journal . Jun2017*, Vol. 22 Issue 2, p132-135. 4p.
82. Taherzadeh S, **Khalili MA**, Agha-Rahimi A, Anbari F, Ghazali SH, Macchiarelli G. Vitrification Increased Vacuolization of Human Spermatozoa: Application of MSOME Technology. *J Reprod Infertil.* 2017 Apr-Jun; 18(2): 225–230.



83. Omidi M, Halvaei I, **Khalili MA**, Ghazali SH, Tahajjodi S, Sabeti P. Clinical outcome of assisted reproductive technologies in advanced aged men. *Middle East Fertility Society Journal*, June 2017, Pages 111-114.
84. Fesahat F, Faramarzi A, Khoradmehr A, Omidi M, Anbari F, **Khalili MA**. Vitrification of mouse MII oocytes: Developmental competency using paclitaxel. *Taiwan J Obstet Gynecol*. December 2016.
85. Faramarzi A, **Khalili MA**, Omidi M, Agha-Rahimi A, Taheri F. Pronuclear pattern does not predict morphokinetics behavior in human embryos. *Gynecol Endocrinol*. 2017 Oct 16:1-4.
86. Fesahat F, Kalantar SM, Sheikhha MH, Saeedi H, Montazeri F, Firouzabadi RD, **Khalili MA**. Developmental and cytogenetic assessments of preimplantation embryos derived from in-vivo or in-vitro matured human oocytes. *Eur J Med Genet*. 2017 Dec 8.
87. Fesahat F, Faramarzi A, Sheikhha MH, DehghaniFirouzabadi R, **Khalili MA**. Comparing the effects of different in vitro maturation media on IVM outcomes of MI oocytes. *Middle East Fertility Society Journal*. September 2017, 22(3).
88. Faramarzi A, **Khalili MA**, Omidi M. Morphometric analysis of human oocytes using time lapse: does it predict embryo developmental outcomes? *Hum Fertil (Camb)*. 2017 Nov 24:1-6.
89. **Khalili MA**, Agha-Rahimi A. Use of sperm DNA fragmentation test in ART setting: is it a promising diagnostic test? *Transl Androl Urol*. 2017 Sep;6(Suppl 4):S673-S674.
90. Omidi M, Faramarzi A, Agharahimi A, **Khalili MA**. Noninvasive imaging systems for gametes and embryo selection in IVF programs: a review. *J Microsc*. 2017 Sep;267(3):253-264.
91. Faramarzi A, **Khalili MA**, Micara G, Agha-Rahimi A. Revealing the secret life of pre-implantation embryos by time-lapse monitoring: A review. *Int J Reprod Biomed (Yazd)*. 2017 May
92. Safian F, **Khalili MA**, Ashourzadeh S, Omidi M. Analysis of meiotic spindle and zona pellucida birefringence of IVM oocytes in PCOS patients. *Turk J Med Sci*. 2017 Feb 27;47(1):368-373.
93. Halvaei I, Ghazali SH, Nottola S, Khalili MA. Cleavage-stage embryo micromanipulation in the clinical setting. *Syst Biol Reprod Med*. 2018 Jan 3:1-12.
94. Vatanparasta M, **Khalili MA**, Yari N, Omidi M, Mohsenzadeh M. Evaluation of sheep ovarian tissue cryopreserved by slow freezing or vitrification after chick embryo chorioallantoic membrane transplantation. *Criobiology* January 2018.

## PUBLICATIONS in NATIONAL JOURNALS

1. **Khalili MA**, Soflai N. Pathomorphology of the liver and pancreas following experimental subarachnoid hemorrhage in rat. *J. Shahid Sadoughi Uni. Med. Sci.* 4: 11-7; 1996.
2. **Khalili MA**, Ghanavati F, Vahidi S, Kalantar SM. The review of infertility. *J. Shahid Sadoughi Uni. Med. Sci* 4: 40-8; 1996.
3. **Khalili MA**, Kalantar, SM. Infertility treatment with microinjection. *Scientific Etelaat* 12: 30-2; 1997.
4. Vahidi S, Kazemini M, **Khalili MA**, Solaimani M. Treatment of obstructive azoospermia with epididymal sperm aspiration and ICSI. *Nabz J.* 6: 11-4; 1997.
5. **Khalili MA**, Vahidi S, Kalantar SM, Amir-Arjmand MH. Treatment of non-obstructive azoospermia with intracytoplasmic round spermatid injection: the first report from Iran. *J. Shahid Sadoughi Uni. Med. Sci* 6: 23-30; 1998.
6. Vahidi S, Moshtaghion H, **Khalili MA**, Kalantar SM, Dehghani R. Comparison of success rates between epididymal and ejaculated spermatozoa in microinjection program. *J. Shahid Sadoughi Uni. Med. Sci* :31-5; 1998.
7. Vahidi S, Kalantar SM, Dehghani R, **Khalili MA**, Ghafourzadeh M. Treatment of azoospermia with microinjection of testicular sperm: the first report from Iran. *J. Shahid Sadoughi Uni. Med. Sci* 6: 71-4; 1998.
8. **Khalili MA**, Mousavi SA, Jafari M. Morphology of spermatozoa from 75 teratozoospermia cases. *Iranian J Urology* 5: 57-65; 1998.
9. **Khalili MA**. In vitro embryo. *Scientific Etelaat* 13: 26-8; 1999.
10. Soflai N, **Khalili MA**, Kalantar SM. Success of 200 microinjection cycles in total embryo formation. *J. Shahid Sadoughi Uni. Med. Sci* 7: 25-31; 1999.
11. **Khalili MA**, Setayesh N, Borjian L, Safeyan AR. Role of sperm parameters in fertilization success rates from IVF and microinjection- ICSI cycles. *J. Shahid Sadoughi Uni. Med. Sci* 7: 32-9; 1999.
12. Hadji-Maghsoudi F, **Khalili MA**, Kalantar SM, Talebi M, Ghafourzadeh M. The effect of ovarian stimulation drugs on uterine wall of rat. *J. Shahid Sadoughi Uni. Med. Sci* 7: 59-70; 1999.
13. **Khalili MA**, Vahidi S, Soflai N, Haidari AM. The effect of Pentoxifylline on motility and morphology of spermatozoa from epididymal and testicular samples of infertile men. *J Reprod & Infertility* 2: 30-6; 2000.
14. Vahidi S, **Khalili MA**, Galebi M. The effect of repeated percutaneous epididymal sperm aspiration on sperm parameters of azoospermic patients. *J Reprod & Infertility* 2: 37-42; 2000.
15. Dehghani H, Dehghani K, **Khalili MA**. The effect of education in reducing anxiety of infertile women during pre and post follicular puncture. *J. Shahid Sadoughi Uni. Med. Sci* 8: 24-9; 2000.

16. Kalantar SM, Harandi HR, **Khalili MA**, Hadji-Maghsoudi F. Evaluation of human sperm morphology using different semen preparation methods. *J. Shahid Sadoughi Uni. Med. Sci* 8: 51-5; 2000.
17. Anvari M, **Khalili MA**, Kalantar SM, Yadegar S. The effect of cryopreservation on motility, morphology, and vitality of spermatozoa from normozoospermic samples. *Yakhteh J.* 2: 191-5; 2001.
18. Moein MR, **Khalili MA**. The correlation between testicular biopsy and sex hormones in infertile patients with non-obstructive azoospermia. *J Reprod & Infertility* 4: 59-64; 2002.
19. Khalili MB, **Khalili MA**. Correlation between asymptomatic urethritis with bacteriospermia in seminal plasma of fertile and infertile men. *J Reprod & Infertility* 5: 21-28; 2003.
20. **Khalili MA**, Goldansaz N, Ayyobi N. Comparison of semen parameters with wet preparation and Makler-staining technique. *J. Shahid Sadoughi Uni. Med. Sci* 11:79-83; 2003.
21. Abbasi A, **Khalili MA**, Anvari M. The effect of chronic spinal cord injury on sperm parameters of adult rats. *J. Shahid Sadoughi Uni. Med. Sci* 12: 73-79; 2004.
22. **Khalili MA**. Embryo cryopreservation. *Scientific Etelaat* 19: 18-21; 2005.
23. Talebi AR, Hossaini A, **Khalili MA**, Sadeghi Y, Nasr-Esfahani MH. The effect of chronic spinal cord injury on chromatin and DNA integrity of spermatozoa aspirated from epididymis of rat. *J Reprod & Infertility* 6: 127-139; 2005.
24. Haji-Maghsoudi F, **Khalili MA**, Aflatoonian A. Complete oocyte maturation arrest in ART cycles. *J Reprod & Infertility* 6: 163-170; 2005.
25. **Khalili MA**, Anvari M, Clower B. Anatomical variations of circle of Willis in 57 human brains. *Iranian J. Anatomy* 2: 59-65; 2005.
26. Sad-Lou Parizi F, **Khalili MA**, Hazeghi A. Correlation between cerebrospinal fluid iron levels and cerebral tissue damage following experimental head injury in rats. *J. Shahid Sadoughi Uni. Med. Sci* 15: 3-9; 2007.
27. **Khalili MA**, Khani B, Baghazadeh S, Tabibnejad N. Sex selection by using albumin gradient technique for sperm separation and intrauterine insemination (IUI). *J Reprod & Infertility* 8: 213-220; 2007.
28. Rahavi A, Ali-Haidari, **Khalili MA**. Ghasem-Zadeh J. The correlation between reactive oxygen species and leukocytes in normozoospermia and oligoasthenoteratozoospermia ejaculates. *J Mazandaran Uni Med Sci.* 18: 91-9; 2008.
29. Hagi-Maghsoudi F, **Khalili MA**, Karimzade A. Effects of MDMA (Ecstasy) on oocyte quality and fertilization rate in mice. *J Reprod Infertility* 11: 77-85; 2010.
30. Ashourzadeh S, Agharahimi A, **Khalili MA**. Assessment of quality control of ART disposable items using human sperm bioassay. *J Reprod Infertility* 12: 101-8; 2011.

31. **Khalili MA**, Mortazevi MH, Mohhaabbasi AR, Lotfi-Hormozabadi M, Akhavan-Tafti M, Safari-Mamzooji S. Effect of MDMA (Ecstasy) administration during pregnancy on reproductive system of BALB/c mice. *J Gorgan Uni Med Sci* 13: 11-9; 2011.
32. Vahidi AR, **Khalili MA**, Amini-RAd O. Effects of different doses of adenosine on sperm motility in infertile men *J Zanzan Uni Med Sci* 19: 50-9; 2011.

#### **ABSTRACTS on ASSISTED REPRODUCTION (international congresses)**

1. **Khalili MA**, Vahidi S, Amir-Arjmand MH. Experimental testicular sperm extraction in rat: Pentoxifylline enhances motility. *Europ Soc Hum Reprod & Embryo. Edinburgh, UK. June 22-5; 1997 (P 001)*.
2. Vahidi S, **Khalili MA**, Kazemini M. Percutaneous epididymal sperm aspiration/ intracytoplasmic sperm injection as the main treatment for infertility with obstructive azoospermia. *MEFS (P 50)*.
3. Vahidi MA, Galebi M, **Khalili MA**. The effect of repeated percutaneous epididymal sperm aspiration (PESA) on sperm parameters in azoospermic patients. *MEFS, Lebanon. Nov 15-18; 2000 (P 86)*.
4. Pourshafie MR, **Khalili MA**, Saifi M, Moghimi F, Rezai-Panah M. The correlation between bacterial contamination in semen and sperm motility. *MEFS (P 53)*.
5. Moein MR, **Khalili MA**. Is abnormal FSH precluding patients from doing testis biopsy or TESE? *American Soc Andrology, Montreal, Canada. June 15-19, 2001 (P 5/6-130)*.
6. **Khalili MA**, Mir-Rokni F, Kalantar SM. Application of vitality tests on asthenozoospermic semen from infertile men. *3<sup>rd</sup> Biennial Alpha Conference. Sep 8-11, 2001, NY, USA (P)*.
7. **Khalili MA**, Kalantar SM, Vahidi S, Ghafourzade M. failure of fertilization following intracytoplasmic injection of round-headed sperm. *3<sup>rd</sup> Biennial Alpha Conference. Sep 8-11, 2000, NY, USA (P)*.
8. **Khalili MA**, Moinia F. Role of embryo morphology and cumulative embryo score in pregnancy outcome from in vitro fertilization and intracytoplasmic sperm injection cycles. *MEFS, Cairo, Egypt, Oct 30-Nov 2, 2002 (P)*.
9. **Khalili MA**, Arya F. The prevalence of round cells in semen of fertile and infertile men in Iran. *IV Indian Congress on Infertility & ART. India, Dec 19-22, 2002 (O)*.
10. **Khalili MA**, Pourshafie MR, Saifi M, Khalili MB. Bacterial infection of the reproductive tract of infertile men in Iran. *An ART Odyssey Conference, Hawaii, USA, Aug 4-7, 2001 (P)*.
11. **Khalili MA**, Vahidi S, Fallah-Zadeh H. The effect of Pentoxifylline on motility of spermatozoa from asthenozoospermic samples: ejaculates, cryopreserved ejaculates, epididymal, and testicular. *28<sup>th</sup> Annual Meeting of American Soc. Andrology, Arizona, USA. Mar 26- April 2, 2003 (P )*.

12. **Khalili MA**, Manouchehri MA, Dehghani V. Analysis of treatment outcome following intracytoplasmic injection of sperm retrieved from the ejaculate, epididymis, or testis of infertile men in Iran. *National cytopathology congress, Antalya, Turkey. Mar 2-5, 2006 (O)*.
13. **Khalili MA**, Aghai-Maibodi F, Anvari M, Talebi AR. Assessment of sperm nuclear DNA in ejaculates of fertile and infertile men: correlation with semen parameters. *American association of clinical anatomist, Milwaukee, USA. July 11-15, 2006 (P)*.
14. **Khalili MA**, Mojibian M, Sultan AM. Role of oocyte morphology on fertilization and embryo formation in assisted reproductive techniques. *American association of clinical anatomist, Milwaukee, USA. July 11-15, 2006 (P)*.

#### **ASSISTED REPRODUCTION WORKSHOPS ATTENDED**

1. **"Andrology Laboratory Techniques"** 2004; Yazd, Iran.  
Supervised by: Professor Ashok Agarwal, Cleveland Clinic Foundation, Cleveland, Ohio, USA.
2. **"Vitrification of Embryo and Oocyte"** Dec. 27, 2005; Yazd, Iran.  
Supervised by: Professor Safaa Al-Hasani, ART center, Lubeck University, Lubeck, Germany.
3. **"Intracytoplasmic Sperm Injection"** Dec. 26, 2005; Yazd, Iran.  
Supervised by: Professor Safaa Al-Hasani, ART center, Lubeck University, Lubeck, Germany.
4. **"Clinical Embryology"** Dec 31, 2005; Isfahan , Iran.  
Supervised by: Professor Safaa Al-Hasani, ART center, Lubeck University, Lubeck, Germany.
5. **"Immunohistochemistry "** April 8-11, 2006; Yazd, Iran.  
Supervised by: Dr. Alireza Fazeli, Academic unit of reproductive & developmental medicine, University of Sheffield, UK.
6. **"Embryo Manipulation Techniques"** March 2006; Istanbul, Turkey.  
Supervised by: Professor Semra Kahreman, ART and genetic center, Istanbul memorial hospital, Istanbul, Turkey.

#### **ASSISTED REPRODUCTION WORKSHOPS CHAIRMAN**

1. **"1<sup>st</sup> Experimental IVF in Laboratory Mice"** August 2006; Yazd, Iran
2. **"2<sup>nd</sup> Experimental IVF in Laboratory Mice"** September 2006; Yazd, Iran
3. **"3<sup>rd</sup> Experimental IVF & ET in Laboratory Mice"** July 2007; Yazd, Iran
4. **"Cryopreservation in ART: Vitrification technique"** May 2007, Yazd, Iran.

5. **"4<sup>th</sup> Experimental IVF & ET in Laboratory Mice"** November 2007; Yazd, Iran
6. **"1<sup>st</sup> Workshop on Quality Control in ART Laboratory"** August 2008, Yazd, Iran.
7. **"1<sup>st</sup> International Workshop on Clinical Embryology"** November 2008, Yazd, Iran.
8. **"Ovarian Transplantation in Mice"** April 2009, Yazd, Iran.
9. **"Human IVM: Laboratory Aspect"** October & December 2010, Yazd, Iran.

#### **M.D., M.S., PhD. CANDIDATES SUPERVISED**

1. Comparison between 3 vitality tests on asthenozoospermic ejaculates (**MD thesis, completed '99**).
2. Evaluation of sperm morphology using wet and 2 staining techniques (**MD thesis, completed' 00**).
3. ICSI treatment outcomes using sperm retrieved from ejaculates, epididymis, or testis (**MD.thesis, completed' 01**).
4. Prevalence of round cells in ejaculates of fertile and infertile men (**MD thesis, completed' 01**).
5. Effect of alcohol consumption by male mice on in-vivo embryo formation (**MD thesis, completed' 02**).
6. Effect of multiple sclerosis on sex hormones & spermatogenesis in rat (**MSc thesis, completed' 03**).
7. Correlation between acid phosphatase and granulose cell apoptosis in ICSI cycles (**MSc thesis, completed' 04**).
8. Evaluation of sperm DNA from fertile and infertile men with Acridine Orange test (**MD thesis, completed, 04**).
9. Effect of chronic spinal cord injury on ultrastructure and DNA integrity of epididymal sperm in rat (**PhD thesis, completed, 05**).
10. Role of vitrification on rate of apoptosis of human spermatozoa (**MSc thesis, completed' 09**).
11. Herbal drug NOFAD and sperm parameters and pregnancy in infertiles (**MSc thesis, completed' 10**).
12. Morphology & morphometry of vitrified human oocytes after IVM (**MSc thesis, completed' 10**).
13. IVM culture media for vitrified human oocytes (**MSc thesis, completed' 10**).
14. Ultrastructure of human immature oocytes following vitrification and IVM (**PhD thesis, completed '12**).
- 15.

## **M.D. CANDIDATES CO-SUPERVISED**

1. Evaluation of Iron in CSF following head injury in rat (completed' 01).
2. Rate of anxiety and depression in infertile couples (completed' 01).

## **AWARDS**

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|------|---|
| 1997 | Infertility award for organizing the “first international IVF workshop in Iran”.                        |
| 1998 | 3 <sup>rd</sup> prize winner for clinical research from “5 <sup>th</sup> Razi national festival”, Iran. |
| 2004 | National prize winner “5 <sup>th</sup> Royan international infertility award”, Iran.                    |