

## Curriculum Vita

### 1-Personal Information

Name: Mansoureh      Surname: Movahedin

Date of Birth: 12/4/1962

Place of Birth: Tehran-Iran

Status of Marriage: Married with three children.

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### 2- Educational Qualification

Degree	University	Course	Graduation Date
B.Sc.	Tehran	Physiotherapy	1987
M.Sc.	Tarbiat Modares	Anatomy	1994
Ph.D.	Tarbiat Modares	Anatomy	1999

**M. Sc. Thesis:** The effects of caffeine on osteogenesis of rat embryos.

**Ph.D. Thesis:** Ultrastructure of vitrified two cell mouse embryos after co- culturing with Vero cells.

### 3- Currier Qualification

Currier	From	Until
Lecturer of University	1994	Now
Assistant Professor of University	1999	2004
Associate Professor of University	2004	2009
Full Professor of University	2009	Now
Research in experimental embryology lab	1997	Now
Working in electron microscopy lab	1997	1999
Embryologist at Human I.V.F. Clinic	1999	Now
Member of Educational Council of Tarbiat Modares Medical Sciences Faculty	2001	Now
Member of Research Council of Tarbiat Modares Medical Sciences Faculty	2002	Now
Secretary of Supervisory Council of Medical Sciences Faculty	2002	2005
Member of Supervisory Council of Tarbiat Modares Medical Sciences Faculty	2002	2009
Head of Anatomical Sciences Dept. Tarbiat Modares	2003	2005

Research Deputy of Medical Sciences Faculty	2005	2009
Secretary of Tarbiat Modares University Ethical Committee	2005	2009
Member of Research Council of Tarbiat Modares University	2005	2009
Editor-in-Chief of Medical Journal of Modares	2006	Now
Member of Managing Council of Iranian Society of Reproductive Medicine	2004	Now
Scientific Secretary of the 14 <sup>th</sup> Annual Meeting of ISRM	2008	-
Secretary of Bio Safety Committee of Tarbiat Modares Medical Sciences Faculty	2007	2009
Head of Anatomical Sciences Dept. Tarbiat Modares	2010	Now

#### 4- Referee of Scientifics Journals

- \* Koassar
- \* Yakhteh
- \* Daneshvar
- \* Medical Journal of Reproduction & Infertility
- \* Iranian Journal of Reproductive Medicine
- \* Medical Journal of Modares

#### 5- Research Interesting

- \* Experimental and Human Embryology
- \* Molecular Biology of Germ Cell and Preimplantation Embryo
- \* Male Germ Cell Transplantation
- \* Nuclear Transfer in Aged Oocyte

## 6- Published Articles

### A- English

- 1- Valojerdi MR, **Movahedin M**, Hosseini A. Improvement of development of vitrified two cell mouse embryos by Vero cells co-culture. *Journal of Assisted Reproductive & Genetics*, 2002,19: 31-38.
- 2- **Movahedin M**. Cryopreservation of limited number of human sperm from different sources within empty zona pellucida. *Yakhteh Medical Journal (English)*, 2003, 4(16): 173-177.
- 3- Hassani H, Salsabili N, Pasbakhsh P, Hassani H, **Movahedin M**, Tiraihi T, Akbari F, Keshavarz M. Comparison of 1,2-Propandiol and ethylene glycol for Cryopreservation of slow-cooled mouse zygotes and their subsequent development. *Journal of Assisted Reproduction and Genetics*, 2003, 20(6): 234-240.
- 4- Nikpoor P, Mowla SJ, **Movahedin M**, Ziaee SAM. Reduction of CatSper gene expression in the testis of infertile men with lack of sperm motility. *Human Reproduction*, 2004, 19:1-5.
- 5- Koruji SM, **Movahedin M**, Valojerdi MR. Assessment of epidermal growth factor effects on development of vitrified mouse morulae to the blastocyst stage. *Iranian Biomedical Journal (English)* 2004, 8 (2): 77-82.
- 6- - **Movahedin M**, Ajeen A, Ghorbanzadeh N, Tiraihi T, Valojerdi MR, Kazemnejad A. In vitro maturation of fresh and frozen-thawed mouse round spermatid. *Andrologia*, 2004, 36: 269-276.
- 7- Rashidi A, **Movahedin M**, Tiraihi T. The effects of pentoxifylline on mouse epididymal sperm parameters, fertilization and cleavage rates after short time preservation. *Iranian Journal of Reproductive Medicine (English)*, 2004, 2 (2): 51 -57.
- 8- Katebi M, **Movahedin M**, Abdolvahabi MA, Akbari M, Abolhassani F, Sobhani A, Aoki F. Changes in motility parameters of mouse spermatozoa in response to different doses of progesterone during course of hyperactivation. *Iranian Biomedical Journal (English)*, 2005, 9(2): 73-79.
- 9- Kazemnejad A, Faradmal J, **Movahedin M**. Use of heirarchial logistic regression model to determine the impact of war injuries on clinical pregnancy rates in patients undergoing intracytoplasmic sperm injection. *Fertility and Sterility*, 2005, 84(5): 1424-1429.
- 10- Rashidi BH, Sarvi F, Tehrani ES, **Movahedin M**, Khanafshar N. The effect of HMG and recombinant human FSH on oocyte quality: a randomized trial single-blind clinical trial. *European Journal of Obstetrics & Gynecology and Reproductive Biology*, 2005, 120 (2): 190-194.
- 11- Anjamrooz SH, **Movahedin M**, Tiraihi T, Mowla J. In vitro effects of epidermal growth factor, follicle stimulating hormone and testosterone on mouse spermatogonial cell colony formation. *Reproduction. Fertility and Development*, 2006, 18: 709-720.
- 12- Esmaeili F, Tiraihi T, **Movahedin M**, Mowla SJ. Selegiline induces neuronal phenotype and neurotrophins expression in embryonic

stem cells. *Rejuvenation Research*, 2006, 9 (4): 475-483.

- 13- Anjamrooz SH, **Movahedin M**, Tiraihi T, Mowla SJ. Graft efficiency of co-cultured spermatogonial cells using sperm assay in epididimal lumen of recipient mice. *Yakhteh Medical Journal (English)*, 2006, 7(4): 242-249.
- 14- Fathi F, Tiraihi T, Mowla SJ, , **Movahedin M**. Transfection of CCE mouse embryonic stem cells with EGFP and BDNF genes by the electroporation method. *Rejuvenation Research*, 2006, 9 (1): 26-30.
- 15- Anjamrooz SH, **Movahedin M**, Tiraihi T, Mowla SJ, Pour Beiranvand S. Assessment of morphological and functional changes in the mouse testis and epididymal sperms following busulfan treatment. *Iranian Biomedical Journal*, 2007, 11(1): 15-22.
- 16- Shahverdi A, **Movahedin M**, Rezazadeh Valojerdi M, Kazemi Ashtiani S. Comparison of embryo development between intracytoplasmic and piezo-assisted sperm injection after treating mouse sperms by Ca<sup>2+</sup> ionophore. *Iranian Biomedical Journal*, 2007, 11(4): 245-250.
- 17- Koruji M, **Movahedin M**, Mowla SJ, Gourabi H. Colony formation ability of frozen thawed spermatogonial stem cell from adult mouse. *Iranian Journal of Reproductive Medicine (English)*, 2007, 5 (3): 109-115.
- 18- Koruji M, **Movahedin M**, Mowla SJ, Gurabi H, Jabbari Arfaee A. The morphological changes of adult mouse testes after <sup>60</sup>Co-radiation. *Iranian Biomedical Journal*, 2008, 12(1): 35-42.
- 19- Absalan F, **Movahedin M**, Mowla SJ. Assessment of testis histological changes and sperm parameters in experimentally-induced unilateral and bilateral cryptorchid mouse model. *Iranian Journal of Reproductive Medicine*, 2008, 6(3): 143-148.
- 20- Hajebrahimi z, Mowla SJ, **Movahedin M**, Tavallaei M. Gene expression alterations of neurotrophins, their receptors and prohormone convertases in a rat model of spinal cord contusion. *Neuroscience Letter*, 2008, 441(3):261-266.
- 21- Absalan F, **Movahedin M**, Mowla SJ. Combination of in vitro cryptorchid testis and in vitro co-culture system to obtain high purification and proliferation of mouse spermatogonial stem cells. *International Journal of Fertility and Sterility*, 2008, 2(3): 115-120.
- 22- Khafri S, Kazemnejad A, **Movahedin M**, Hajizadeh E. Seasonal influences stages of in vitro fertilization: stimulation and fertilization. *International Journal of Fertility and Sterility*, 2008, 2(2): 90-95.
- 23- Rezaian J, **Movahedin M**, Mowla SJ. CatSper genes expression, semen characteristics and histology of testes in the contusive spinal cord-injured mice model. *Spinal Cord*, 2009, 47(1):76-81.
- 24- Koruji M, **Movahedin M**, Mowla SJ, Gourabi H, Arfaee AJ. Efficiency of adult mouse spermatogonial stem cell colony formation under several culture conditions. *In Vitro Cell Development Biology Animal*. 2009, 45(5-6):281-289.
- 25- Nouri HS, Azarmi Y, **Movahedin M**. Effect of growth hormone on testicular dysfunction induced by methotrexate in rats. *Andrologia*, 2009, 41(2):105-110.
- 26- Fathi F, Altiraihi T, Mowla SJ, **Movahedin M**. Formation of embryoid bodies from mouse embryonic stem cells cultured on silicon-coated surfaces.

Cytotechnology, 2009, 59(1):11-16.

- 27- Makoolati Z, **Movahedin M**, Forouzandeh M. Effects of different doses of Bone Morphogenetic Protein 4 on viability and proliferation rates of mouse embryonic stem cells. *Yakhteh Medical Journal (English)*, 2009, 11(1): 29-34.
- 28- Amiri S, **Movahedin M**, Mowla SJ, Hajebrahimi Z, Tavallaei M. Differential gene expression and alternative splicing of survivin following mouse sciatic nerve injury. *Spinal Cord*, 2009, 47: 739-744.
- 29- Parinejad N, Keshavarzi S, **Movahedin M**, Raza M. Behavioral and histological assessment of the effect of intermittent feeding in the pilocarpine model of temporal lobe epilepsy. *Epilepsy Research*, 2009, 86: 54-65.
- 30- Makoolati Z, **Movahedin M**, Forouzandeh M. Effects of treatment with Bone Morphogenetic Protein 4 and co-culture on expression of *Piwil2* gene in mouse differentiated embryonic stem cells. *International Journal of Fertility and Sterility*, 2009, 3(2): 78-83.
- 31- Makoolati Z, **Movahedin M**, Forouzandeh M. Assesment of *Piwil2* gene expression pattern upon germ cell development from mouse embryonic stem cell. *Iranian Red Crescent Medical Journal*, 2009, 11(4): 408-413.
- 32- Mohamadi SH, **Movahedin M**, Mowla SJ. Up-regulation of *Catsper* genes family by selenium. *Reproductive Biology and Endocrinology*, 2009, Nov 16;7:126.
- 33- Absalan F, **Movahedin M**, Mowla SJ. Germ cell apoptosis induced by experimental cryptorchidism is mediated by molecular pathways in mouse testis. *Andrologia*, 2010;42(1):5-12.
- 34- Shahverdi A.A.H, **Movahedin M**, Rezazadeh VM, Baharvand H. Evaluation of embryos derived from in vitro fertilized oocytes reconstructed by meiosis-II chromosome transplantation from aged mice to ooplasm of young mice. *International Journal of Fertility and Sterility*. 2010; 3 (4): 165- 170.
- 35- Fathi F, Altiraihi T, Mowla SJ, **Movahedin M**. Transplantation of retinoic acid treated murine embryonic stem cells & behavioural deficit in Parkinsonian rats. *Indian J Med Res*. 2010 Apr;131:536-44.
- 36- Tajik P, Barin A, **Movahedin M**, Zarnani AH, Hadavi R, Moghaddam GH, Shoja J, Jeddi-Tehrani M, Ashrafi-Helan J, Heidari-Vala H, Torkabadi E, Qasemi-Panahi B. Nestin, a neuroectodermal stem cell marker, is expressed by bovine sertoli cells. *Comp Clin Pathol*. 2010, DOI 10.1007/s00580-010-1105-3.
- 37- Edalat H, Hajebrahimi Z, **Movahedin M**, Tavallaei M, Amiri S, Mowla SJ, p75NTR suppression in rat bone marrow stromal stem cells significantly reduced their rate of apoptosis during neural differentiation. *Neurosci Lett*. 2011 Apr 27. [Epub ahead of print]
- 38- Makoolati Z, **Movahedin M**, Forouzandeh-Moghadam M. Bone morphogenetic protein 4 is an efficient inducer for mouse embryonic stem cell differentiation into primordial germ cell. *In Vitro Cell Dev Biol Anim*. 2011 Apr 27. [Epub ahead of print]

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B- Persian

1. Hosseini A, Valojerdi MR, **Movahedin M**. The effects of caffeine on bone formation of Tibia in rat embryos. *Yakhteh Medical Journal*, 1378 (1998), 2: 27-42.
2. **Movahedin M**, Valojerdi MR, Hosseini A. The co-culture with Vero cells and the development of two cell mouse embryos after vitrification. *Yakhteh Medical Journal* 1378 (1998), 3: 1-7.
3. **Movahedin M** , Valojerdi MR, Hosseini A. Comparison of two different concentration of ethylene glycol on development of two cell mouse embryos. *Kowssar Medical Journal* 1379 (2000), 5 (2): 97-104.
4. **Movahedin M**, Valojerdi MR, Hosseini A. A comparison between two different media used on two-cell embryo co-cultured with Vero cells. *Yakhteh Medical Journal*, 1379 (2000) 5: 19-23.
5. **Movahedin M**, Hatami L, Tiraihi T. Effects of two different cryoprotectants on fertilization rate of mouse sperm. *Yakhteh Medical Journal*, 1381 (2002), 4(13): 17-22.
6. Nikpoor P, Mowla SJ, **Movahedin M**. Study CatSper gene expression in mouse testis during post natal life. *Yakhteh Medical Journal*, 1381 (2002), 4(15):119-125.
7. Movaghar B, **Movahedin M**, Valojerdi MR, Baharvand H. The effect of simultaneous co-culture and sequential media on the development of vitrified one-cell mouse embryo. *Modares Medical Journal*, 1382 (2003), 5(1): 115-122.
8. **Movahedin M**. Cryopreservation of limited number of human sperm within empty human zona pellucida. *Daneshvar Medical Journal*, 1382, 9(40): 51-55.
9. Ghorbanzadeh N, **Movahedin M**, Tiraihi T. In vitro maturation of mouse round spermatid using FSH and testosterone. *Journal of Iranian Anatomical Sciences*, 1382 (2003), 1(3): 21-26.
10. Koruji SM, **Movahedin M**, Valojerdi MR. Assessment of epidermal growth factor effects on development of mouse morulae. *Medical Journal of Shahid Sadouqi* 1382 (2003), 11 (1): 58-67.
11. Ghorbanzadeh N, **Movahedin M**, Tiraihi T. In vitro maturation of fresh and frozen-thawed mouse round spermatid using FSH and testosterone. *Yakhteh Medical Journal*, 1382 (2003), 5(19): 183-188.
12. **Movahedin M**, Kruji SM, Anjamrooz SH. Assessment of epidermal growth factor on development of preimplantation mouse embryos. *Journal of Iranian Anatomical Sciences*, 1382 (2003), 1(2): 31-37.
13. Koruji SM, **Movahedin M**, Valojerdi MR. The effects of epidermal growth factor on vitrified mouse morulae. *Modares Medical Journal*, 1382 (2003), 6 (2):103-110.

14. Absalan F, **Movahedin M**, Mowla SJ. Study the effects of tumor necrosis factor alpha on development of mouse morulae. *Feiz Journal*, 1382 (2003), 27: 50-57.
15. Ajeen A, **Movahedin M**, Valojerdi MR, Kazemnejad A. The effects of rFSH and testosterone on in vitro maturation of mouse round spermatid using co-culture with Vero cells. *Medical Journal of Reproduction & Infertility*, 1382 (2003), 4 (4): 295-305.
16. Ghanei M, **Movahedin M**, Valojerdi MR, Baharvand H. The effects of co-culturing with Vero cells on development of vitrified eight cell embryos. *Yakhteh Medical Journal*, 1382 (2003), 5 (17): 1-7.
17. Kazemnejad A, Khafri S, **Movahedin M**, Sadat Hashemi M. Comparison of success rate of intracytoplasmic sperm injection between infertile war victims & other infertile couples. *Behbood Medical Journal*, 1382 (2003), 7 (4) pp: 1-10.
18. Fathi F, Tiraihi T, Mowla SJ, , **Movahedin M**. Producing Embryoid bodies from embryonal stem cells using siliconized Petri dishes. *Kordestan Medical Journal*, 1382 (2003), 8 (2): 1-12.
19. Nikpoor P, Mowla SJ, **Movahedin M**, Ziayee AM. Study expression of CatSper in testis of infertile men without sperm motility. *Kowssar Medical Journal*, 1383 (2004), 9 (1): 1-9.
20. Khoshvaghti A, **Movahedin M**, Bayat M, Hosseini A, Sadeghi Y. The effects of radiation of Low Power Helium- Neon Laser on motility and ultrastructure of fresh ad frozen-thawed human sperm. *Journal of Iranian Anatomical Sciences*, 1383, (2004) 2 (1) pp: 1-9.
21. Fathi F, Tiraihi T, **Movahedin M**, Mowla SJ. In vitro differentiation of P19 cells into neuron like cells using retinoic acid. *Kowssar Medical Journal*, 1383 (2004), 9 (3): 161-168.
22. Esmaily F, **Movahedin M**, Mowla SJ, Tiraihi T. Isolation of embryonic stem cells using Vero cells as a feeder layer and in vitro differentiation into neuron like cells. *Modares Medical Journal*, 1383 (2004), 7 (1): 1-12.
23. Kazemnejad A, Khafri S, **Movahedin M**, Nowroozi M, Sadat Hashemi M. Determination of effective factors on success treatment in war victims using ICSI method. *Medical Journal of Reproduction & Infertility*, 1383 (2004), 4 (4): 227-234.
24. Katebi M, **Movahedin M**, Abdolvahabi MA, Akbari M, Abolhassani F, Sobhani A. The effects of different doses of progesterone on motility parameters of mouse sperm after hyperactivation. *Journal of Iranian Anatomical Sciences*, 1383 (2004), 2 (2): 13-21.
25. Fathi F, Tiraihi T, **Movahedin M**, Mowla SJ. Improvement in signs of Parkinson's disease in rats following transplantation of embryonic stem cells. *Journal of Iranian Anatomical Sciences*, 1383 (2004), 2(4): 1-24.
26. Abouhamzeh B, Alimorad Zadeh R, Safari Nezhad MR, **Movahedin M**, Markazi Moghadam N, Jafarian S. Correlation between semen characteristics and chromatin condensation in patients with spinal cord injury and without spinal cord injury. *JAUMS*, 1383 (2004), 2(7); 391-394.
27. Shahverdi A, **Movahedin M**, Rezazadeh Volojerdi MR, Kazemi Ashtiani S. Comparison of the effects of progesterone and calcium ionofor on mouse sperm parameters and fertility rate. *Journal of Iranian Anatomical Sciences*, 1384 (2005), 3 (1): 19-25.
28. Mortezaazadeh Meimand F, **Movahedin M**, Mikhtari Dizaji. The effects of Testosterone treatment on structure of mouse testes.



29. Morteza-zadeh Meimand F, **Movahedin M**, Mikhtari Dizaji. Study the effects of association of ultrasound therapy with Testosterone treatment on adult mouse sperm parameters and testicular structure. Journal of IRI Artesh Medical University, 1384 (2005), 3 (2): 537-545.
30. Shahverdi A, **Movahedin M**, Rezazadeh Volojerdi MR, Kazemi Ashtiani S. Ultrastructural study of in vitro derived embryos from aging and young oocytes. Journal of Iranian Anatomical Sciences, 1385 (2006), 4 (1): 19-28.
31. Shahverdi A, **Movahedin M**, Rezazadeh Volojerdi MR, Kazemi Ashtiani S. Evaluation of preimplantation NMRI mouse embryos in different media. Yakhteh Medical Journal, 1385, (2006) 8 (4): 232-237.
32. Khalatbari A, Tiraihi T, **Movahedin M**. The study of migration of bone marrow stromal cells administered intravenously to the injured spinal cord of rat. Medical Journal of Daneshvar, 1385 (2006), 14 (65): 7-12.
33. Ghorbanmehr N, **Movahedin M**, Mowla SJ. Study the effects of Epidermal Growth Factor on development of 8-16 cells mouse embryo following vitrification and its receptor gene expression. Kordestan Medical Journal, 1385 (2006), 11: 60-70.
34. Namavari M, **Movahedin M**, Tiraihi T. The effects of cold injury on sensorimotor cortex of mouse brain. Kordestan Medical Journal, 1385 (2006), 11: 7-14.
35. Naghikhani M, Tiraihi T, **Movahedin M**, Delshad A. Improvement of spinal motor function following transplantation of bone marrow stromal cells in rat. Medical Journal of Tavanbakhshi, 1385(2006), 7 (1): 7-13.
36. Fathi F, Tiraihi T, **Movahedin M**, Mowla SJ. Evaluation pIRES2-EGFP and pcDNA3-hBDNF-v5 in transfection of CCE embryonic stem cells using electroporation. Yakhteh Medical Journal, 1385 (2006), 8 (1): 23-30.
37. Namavari M, **Movahedin M**, Tiraihi T. Study the expression apoptotic genes (Bax and Survivin) on sensorimotor cortex of mouse brain after induction cold injury and MgCl<sub>2</sub> treatment. Journal of Iranian Anatomical Sciences, 1385 (2006), 4(1): 175-184.
38. Koruji M, **Movahedin M**, Mowla SJ, Gurabi H. Colony formation efficiency of frozen-thawed adult mouse spermatogonial stem cells in co-culture with sertoli cell. Journal of Iranian Anatomical Sciences, 1385 (2007), 4(17): 303-313.
39. Hagi Ghasem Kashani M, Tiraihi T, **Movahedin M**. Study the behavior of Parkinson rat model after transplantation of bone marrow stromal cells into corpus striatum. Medical Journal of Daneshvar, 1386 (2007), 14(70): 11-18.
40. Amiri S, **Movahedin M**, Mowla SJ, Haj Ebrahimi Z. Study the changes of Survivin gene expression after Siatic nerve injury in adult mice. Modares Medical Journal, 1386 (2007), 10(2): 51-61.
41. Janzadeh N., **Movahedin M.**, Tiraihi T. The effect of antioxidant Melatonin on mice sensorimotor gyri following induction of brain edema. Medical Journal of Tavanbakhshi, 1386 (2007), 8 (1): 13-16.
42. Koruji M, **Movahedin M**, Mowla SJ, Gurabi H, Jabbari Arfaee A. The effects of induced factors on adult mouse spermatogonial cells colony formation in vitro. Yakhteh Medical Journal, 1386 (2007), 9 (2): 142-150.

43. Shahverdi A, **Movahedin M**, Rezazadeh Volojerdi MR, Kazemi Ashtiani S. The arrangement of microtubules in embryos derived from mice young, old and reconstructed oocytes. *Yakhteh Medical Journal* , 1387 (2008), 10(2): 146-151.
44. Rezaian J, **Movahedin M**, Mowla SJ. Study the changes of testicular structure and epididymal sperm in mouse model of acute phase of spinal cord injury. *Birjand Medical Journal*, 1387 (2008), 15(1): 17-25.
45. Mohammadi SH, **Movahedin M**, Mowla SJ. Antioxidants effects of Selenium on sperm parameters and tissue structure of young and aged mice. *Journal Reproduction and Fertility*, 1387 (2008), 9(3): 229-237.
46. Mohammadi SH, **Movahedin M**, Mowla SJ. Study the effects of Selenium on changes of sperm antioxidants capacity of young and aged mice. *Kordestan Medical Journal*, 1388 (2010), 14: 84-91.
47. Mohammadi SM, **Movahedin M**, Koruji M. A comparison between the colony formation of adult mouse spermatogonial stem cells in co cultures with Sertoli and STO. *Yakhteh Medical Journal*, 1389 (2010), 12 (2): 231-240.
48. Abdoli Am, Dalimi A, **Movahedin M**, Abdoli Al. The role of immune response to parasitic infection in modulation of multiple sclerosis. *Journal of Neuroscience Reviews*, 1389 (2010), 8(30): 12-18.

## 7- Patents

### A- International

1- Generation genetically engineered bone marrow stromal cells with reduced rate of cell death after induction of neural differentiation by means of knocking down the expression of p75NTR receptor. Mowla SJ, Haj Ebrahimi Z, Tavalayee M, **Movahedin M**, Daneshvar MT. Australia, 2008

### B- National

1- Technique of isolation, purification, proliferation and cryopreservation of the spermatogonial stem cells of infertile men. Mirzapoor T, **Movahedin M**, Nowroozi MR. Iran, 1387 (2008).

## 8- Published Books

1- Experimental techniques of embryology. Edited by: M. Rezazadeh, **M. Movahedin**, M. Salehnia. Tarbiat Modares University, Medical Sciences Faculty, Tehran, Iran. 120 pages, 2001

2- Manual instruction and quality control in human embryology lab. Edited by **M. Movahedin**, R. Sheikhi, N. Ghorbanmehr, ZS. Hosseini, A. Assemi. Koassar Fertility and Impotency Centre, Tehran, Iran. 304 pages, 2002

## 9- Presentations

### A- International

- 1- **Movahedin M**, Rezazadeh M, Hosseini A. The Fifth Annual Meeting of the Middle East Fertility Society, Amman, Jordan, 1998
- 2- **Movahedin M**, Rezazadeh M, Hosseini A. The co-culture with Vero cells and the development of two cell mouse embryo after vitrification. The Seventh Annual Meeting of the Middle East Fertility Society, Beirut, Lebanon, 2000
- 3- **Movahedin M**, Rezazadeh M, Hosseini A. Ultrastructural changes of vitrified two cell mouse embryo. Fertility 2000, Edinburgh, England, 2000
- 4- **Movahedin M**, Rezazadeh M, Hosseini A. Ultrastructure of vitrified two cell mouse embryo after co-culture with Vero cells. SSR 2001, Ottawa, Canada, 2001
- 5- **Movahedin M**, Sheikhi R, Assemi A. Human or mouse empty zona pellucida: Which one is more suitable for Cryopreservation of limited number of sperm within empty zona pellucida? The 8<sup>th</sup> Annual Meeting of the Middle East Fertility Society, Bahrain, 2001
- 6- Rezaeian AH, Zeinali S, Kalanter SM, Khalili M, Torkamanzadeh A, **Movahedin M**. Molecular typing of IVF-ET produced mice offspring using macrosatellite markers. The 8<sup>th</sup> Annual Meeting of the Middle East Fertility Society, Bahrain, 2001
- 7- Assemi A, **Movahedin M**, Nowroozi M, Mohammadi M. Study on the influence of two different concentration of albumin contained medium on sperm motility and agglutination. The 8<sup>th</sup> Annual Meeting of the Middle East Fertility Society, Bahrain, 2001
- 8- Nikpoor P, Mowla SJ, **Movahedin M**, Tiraihi T. CatSper gene expression in mouse testis is developmentally regulated. 9<sup>th</sup> Annual Scientific Meeting of Middle East Fertility Society, Cairo, Egypt, 2002
- 9- Hatami L, **Movahedin M**, Tiraihi T. The effects of using two different cryoprotectant on fertility rate of frozen-thawed mouse spermatozoa. 9<sup>th</sup> Annual Scientific Meeting of Middle East Fertility Society, Cairo, Egypt, 2002
- 10- Barfani HH, Salsabili N, Pasbakhsh P, **Movahedin M**, Akbari F, Tiraihi T. Comparison of mouse zygotes development in slow freezing with ethylene glycol and 1,2-propandiol. 9<sup>th</sup> Annual Scientific Meeting of Middle East Fertility Society, Cairo, Egypt, 2002
- 11- Koruji SM, **Movahedin M**, Valojerdi MR. The effects of epidermal growth factor on development of vitrified mouse embryo morula. 9<sup>th</sup> Annual Scientific Meeting of Middle East Fertility Society, Cairo, Egypt, 2002

- 12- Absalan F, **Movahedin M**, Mowla SJ. The effect of different concentration of TNF alpha on in vitro development of mouse morula. 9<sup>th</sup> Annual Scientific Meeting of Middle East Fertility Society, Cairo, Egypt, 2002
  
- 13- **Movahedin M**, Koruji SM, Anjamrooz AH. Determination the effects of epidermal growth factor on development rates of preimplantation mouse embryo. 9<sup>th</sup> Annual Scientific Meeting of Middle East Fertility Society, Cairo, Egypt, 2002
  
- 14- Esmaili F, **Movahedin M**, Mowla SJ, Tiraihi T. Isolation of mouse embryonic stem cells using Vero cells as feeder layer. 9<sup>th</sup> Annual Scientific Meeting of Middle East Fertility Society, Cairo, Egypt, 2002
  
- 15- Fathi F, Mowla SJ, **Movahedin M**, Tiraihi T. Differentiation of mouse ES cells into neuron-like cells. 9<sup>th</sup> Annual Scientific Meeting of Middle East Fertility Society, Cairo, Egypt, 2002
  
- 16- Ghorbanzadeh N, **Movahedin M**, Tiraihi T, Kazemnejad A. The effects of FSH and Testosterone on in vitro maturation of fresh and frozen-thawed mouse round spermatid. 10<sup>th</sup> Scientific Meeting of Middle East Fertility Society, Beirut, Lebanon, 2003
  
- 17- Ghorbanmehr N, **Movahedin M**, Mowla SJ, Eidi A. Comparative study between simple and complex medium with and without epidermal growth factor in development of mouse embryos. 10<sup>th</sup> Scientific Meeting of Middle East Fertility Society, Beirut, Lebanon, 2003
  
- 18- Moradkhani O, **Movahedin M**, Shahidi Z. The effect of pentoxifylline and progesterone on human semen after short period preservation. 10<sup>th</sup> Scientific Meeting of Middle East Fertility Society, Beirut, Lebanon, 2003
  
- 19- Ajeen A, **Movahedin M**, Valojerdi MR, Kazemnejad A. Maturation of mouse round spermatid cells using co-culture system with[without supplementation with rFSH and Testosterone. 10<sup>th</sup> Scientific Meeting of Middle East Fertility Society, Beirut, Lebanon, 2003
  
- 20- Kazemnejad A, Khafri S, **Movahedin M**, Sadat Hashemi. Artificial neural network models for predicting the successful rate of the ICSI cycles. 10<sup>th</sup> Scientific Meeting of Middle East Fertility Society, Beirut, Lebanon, 2003
  
- 21- Esmaili F, Tiraihi T, **Movahedin M**, Mowla SJ. Isolation of mouse embryonic stem cells using vero cells- as a feeder layer- and their differentiation into neuron- like cells. 34<sup>th</sup> Congress of American Society for Reproductive Medicine, USA, 2003
  
- 22- Nikpoor P, Mowla SJ, **Movahedin M**, Tiraihi T, Ziaie SAM. Evaluation of CatSper gene expression in mouse testis at different ages. American Urological Association Congress, USA, 2003
  
- 23- **Movahedin M**, Absalan F, Mowla SJ. Does vitrified embryo respond to cytokine differently? Fifth International Symposium on Preimplantation Genetics, Antalya, Turkey, 2003
  
- 24- Ghorbanmehr N, **Movahedin M**, Mowla SJ, Eidi A. The effects of epidermal growth factor on development and its receptor expression in vitrified mouse embryo. 11<sup>th</sup> Annual Meeting of the Middle East Fertility Society, Dead Sea, Jordan, 2004
  
- 25- Khoshvaghti A, **Movahedin M**, Bayat M, Hosseini A, Sadeghi Y. Motility and ultrastructure of human sperm can change with low power laser irradiation. 11<sup>th</sup> Annual Meeting of the Middle East Fertility Society, Dead Sea, Jordan, 2004

- 26- Rashidi I, **Movahedin M**, Tiraihi T. The effect of pentoxifylline on mouse sperm parameters after short time preservation. 11<sup>th</sup> Annual Meeting of the Middle East Fertility Society, Dead Sea, Jordan, 2004
- 27- Mortezaazadeh F, **Movahedin M**, Mokhtari M. The effects of association of ultra sound therapy with Testosterone treatment on structure of mouse testis. 11<sup>th</sup> Annual Meeting of the Middle East Fertility Society, Dead Sea, Jordan, 2004
- 28- Moradkhani O, Khoshvaghti A, **Movahedin M**, Khafri S. The effects of low-power laser radiation on parameters of fresh and frozen-thawed semen. 11<sup>th</sup> Annual Meeting of the Middle East Fertility Society, Dead Sea, Jordan, 2004
- 29- **Movahedin M**, Ajeen A, Ghorbanzadeh N, Tiraihi T, Rezazadeh M, Kazemnejad A. In vitro maturation of fresh and frozen-thawed mouse round spermatid. 20<sup>th</sup> Annual Meeting of the ESHRE, Berlin, Germany, 2004
- 30- Namavari M, Janzadeh N, **Movahedin M**, Tiraihi T, Anjamroz SH. The effects of cold injury on sensory motor cortex of mouse. 4<sup>th</sup> Asian-Pacific International Congress of Anatomists, Kusadasi, Turkey, 2005
- 31- Anjamrooz SH, **Movahedin M**, Mowla SJ, Tiraihi T. Cryopreservation of spermatogonial cells reduces their proliferation efficiency both in vitro and in vivo. 4<sup>th</sup> Asian-Pacific International Congress of Anatomists, Kusadasi, Turkey, 2005
- 32- Mortezaazadeh F, **Movahedin M**, Mokhtari M. Does ultrasound irradiation to the testis of Testosterone treated mouse cause structural changes? 13<sup>th</sup> World Congress on In Vitro Fertilization, Assisted Reproduction and Genetics, Istanbul, Turkey, 2005
- 33- Anjamrooz SH, **Movahedin M**, Mowla SJ, Tiraihi T, Bairanvand S. Effect of Busulfan on sperm parameters and structure of adult mouse testis. 13<sup>th</sup> World Congress on In Vitro Fertilization, Assisted Reproduction and Genetics, Istanbul, Turkey, 2005
- 34- Fathi F, Tiraihi T, **Movahedin M**, Mowla SJ. Transfection of CCE embryonic stem cells with EGFP and BDNF genes by electroporation method. 13<sup>th</sup> World Congress on In Vitro Fertilization, Assisted Reproduction and Genetics, Istanbul, Turkey, 2005
- 35- Ghorbanmehr N, **Movahedin M**, Mowla SJ, Eidi A. The effects of vtrification on gene expression of 8 cell mouse embryos. 13<sup>th</sup> World Congress on In Vitro Fertilization, Assisted Reproduction and Genetics, Istanbul, Turkey, 2005
- 36- Katebi M, **Movahedin M**, Abdolvahabi MA, Akbari M, Abolhasani F, Sobhani A. Changes in motility parameters of mouse spermatozoa in response to different doses of progesterone. 13<sup>th</sup> World Congress on In Vitro Fertilization, Assisted Reproduction and Genetics, Istanbul, Turkey, 2005
- 37- Anjamrooz SH, **Movahedin M**, Mowla SJ, Tiraihi T. The in vitro effects of EGF, FSH and Testosterone on spermatogonial cells colonization. SSR 2005, Quebec, Canada, 2005
- 38- Anjamrooz SH, **Movahedin M**, Nowroozi MR. Seminiferous tubule morphometry and testicular tissue culture in human. The 7<sup>th</sup> Royan Award, Tehran, Iran, 2006
- 39- **Movahedin M**. New approach to assess the efficiency of germ cell transplanted in the mouse. The 7<sup>th</sup> Royan Award, Tehran, Iran, 2006

- 40- Shahverdi A, **Movahedin M**, Rezazadeh Valojerdi M, Kazemi Ashtiani S. Ultra structural studies of mice embryos obtained from young and old oocytes. Indo- French Congress on Gynecologic Endoscopy, Ultrasound and Infertility, Varanasi, India, 2006
- 41- Rezaian J, **Movahedin M**, Mowla SJ. Contusive spinal cord injury causes reduction in motility, viability and normal morphology rates of mouse testis spermatozoa. 13<sup>th</sup> Annual Meeting of the Middle East Fertility Society, Aqaba, Jordan, 2006
- 42- Mohammadi SH, **Movahedin M**, Mowla SJ. The effect of Selenium on sperm parameters in aging male mice. 13<sup>th</sup> Annual Meeting of the Middle East Fertility Society, Aqaba, Jordan, 2006.
- 43- Shahverdi A, **Movahedin M**, Rezazadeh Valojerdi M, Kazemi Ashtiani S. Ultra structural studies of zygotes derived from reconstructed oocytes of old mice using nuclear transfer technique and activated sperm. The 23<sup>rd</sup> Annual Meeting of the ESHRE, Lyon, France, 2007.
- 44- Koruji M, **Movahedin M**, Mowla SJ, GFurabi H. Effects of co-culture system on efficiency of frozen-thawed spermatogonial cells colony formation. The 23<sup>rd</sup> Annual Meeting of the ESHRE, Lyon, France, 2007.
- 45- Mirzapour T, **Movahedin M**, Ibrahim TA, Khansarinejad B, Korouji M, Nowroozi MR, Radkhah K, Rafeian S. Co-culture of sertoli cells and human spermatogonial stem cells for developing an in-vitro culture system capable of supporting human spermatogonia stem cell colonization. 7<sup>th</sup> Biennial Conference of Alpha, Istanbul, Turkey, 2008.
- 46- Absalan F, **Movahedin M**, Mowla SJ. Assessment of morphological and functional changes in the mouse testis and epididymal spermatozoa following unilateral and bilateral cryptorchidism; a mouse model. 7<sup>th</sup> Biennial Conference of Alpha, Istanbul, Turkey, 2008.
- 47- Makoolati Z, **Movahedin M**, Forouzanesh-Moghadam M. BMP4 supports the proliferation and viability of mouse embryonic stem cell in a dose-dependent manner. 7<sup>th</sup> Biennial Conference of Alpha, Istanbul, Turkey, 2008.
- 48- Absalan F, **Movahedin M**, Mowla SJ. Expression of BAX, BCL2, P53 and Survivin in heat treated testis of mouse. 13<sup>th</sup> World Congress on Human Reproduction, Venezia, Italy, 2009.
- 49- Makoolati Z, **Movahedin M**, Forouzanesh-Moghadam M. Assessment of gene expression pattern in germ cell development from embryonic stem cell. 13<sup>th</sup> World Congress on Human Reproduction, Venezia, Italy, 2009.
- 50- Makoolati Z, **Movahedin M**, Forouzanesh-Moghadam M. Assessment of Mvh, 6 integrin and 1 integrin expression upon embryoid body formation by real-time quantitative PCR. MEFD & STGO, Hammamet, Tunisia, 2008.
- 51- Mohamadi M, **Movahedin M**, Koruji M. The assessment of number and diameter of mouse spermatogonial stem cell colonies after co-culture with sertoli cell. MEFD & STGO, Hammamet, Tunisia, 2008.
- 52- Mirzapour T, **Movahedin M**, Ibrahim TA, Haron AV, Othman F, Khansarinejad B, Korouji M, Nowroozi MR. Colonization of human spermatogonial stem cells in vitro culture based on growth factors. MEFD & STGO, Hammamet, Tunisia, 2008.

- 53- Amanpour S1, Mazaheri Z1, Zandieh Z1, Ramezan Zadeh F1, **Movahedin M**. ICSI success rates according to treatment protocols and number of eggs retrieved. First International & 16th Congress of Iranian Society for Reproductive Medicine, Shiraz, Iran, 2010.
- 54- Koruji M, **Movahedin M**, Mowla SJ, Gourabi H, Pourbeiranvand Sh, Jabbri Arfaee A. Resumption of spermatogenesis following autologous transplantation of spermatogonial stem cells within gamma irradiated mouse testes. First International & 16th Congress of Iranian Society for Reproductive Medicine, Shiraz, Iran, 2010.
- 55- Makoolati Z, **Movahedin M**, Forouzandeh-Moghadam M. Quantitative PCR assay of Stra8 gene expression upon embryonic stem cell differentiation. International & 16th Congress of Iranian Society for Reproductive Medicine, Shiraz, Iran, 2010.
- 56- Absalan F, **Movahedin M**, Mowla SJ. Spermatogonial transplantation and subsequent orchidopexy in bilateral cryptorchid mouse model. International & 16th Congress of Iranian Society for Reproductive Medicine, Shiraz, Iran, 2010.
- 57- Mazaheri Z , **Movahedin M** ,Rahbarizadeh F and Amanpour .retinoic acid and CO-Culture Promote The Expression of Germ Cell-Specific Genes in Bone Morphogenic Protein-4-Treated Bone Marrow Mesenchymal Stem Cells. Advances in Stem Cell Research. Institut Pasteur,France , Paris ,6-8April , 2011 .
- 58-

## B- National

- 1- **Movahedin M**, Rezazadeh M, Hosseini A. The co-culture with Vero cells and the development of two cell mouse embryo after vitrification The 4<sup>th</sup> Congress of Anatomical Sciences, Tehran, Iran, 1378 (1999)
- 2- **Movahedin M**, Rezazadeh M, Hosseini A. Ultrastructural changes of vitrified two cell mouse embryo. The 4<sup>th</sup> International Congress of Gynecological and Obstetrics Diseases, Tehran, Iran, 1379 (2000)
- 3- Hatami L, **Movahedin M**, Tiraihi T. Mouse sperm Cryopreservation using two different cryoprotectant. The 9<sup>th</sup> congress of Fertility and Infertility, Yazd, Iran, 1380 (2001)
- 4- Assemi A, **Movahedin M**. Study on the influence of two different concentration of albumin contained medium on sperm motility and agglutination. The 9<sup>th</sup> congress of Fertility and Infertility, Yazd, Iran, 1380 (2001)
- 5- Koruji SM, **Movahedin M**, Valojerdi MR. The effects of two different concentration of epidermal growth factor on development of vitrified mouse embryo morula. The 9<sup>th</sup> congress of Fertility and Infertility, Yazd, Iran, 1380 (2001)

- 6- Movaghar B, **Movahedin M**, Rezazadeh M, Baharvand H. Effects of co-culture and sequential media on development of mouse zygotes after vitrification. The 9<sup>th</sup> congress of Fertility and Infertility, Yazd, Iran, 1380 (2001)
- 7- Ghanei M, **Movahedin M**, Rezazadeh M, Baharvand H. The effects of vero co-culture in R2 medium on development of eight cell mouse embryo after vitrification. The 9<sup>th</sup> congress of Fertility and Infertility, Yazd, Iran, 1380 (2001)
- 8- Rezaeian AH, Zeinali S, Kalanter SM, Khalili M, Torkamanzadeh A, **Movahedin M**. Molecular typing of IVF-ET produced mice offspring using macrosatellite markers. The 9<sup>th</sup> congress of Fertility and Infertility, Yazd, Iran, 1380 (2001)
- 9- **Movahedin M**, Sheikhi R, Assemi A. Cryopreservation of limited number of sperm in empty human zona. The 9<sup>th</sup> congress of Fertility and Infertility, Yazd, Iran, 1380 (2001)
- 10- Ghanei M, **Movahedin M**, Rezazadeh M, Baharvand H. The effects of co-culture with Vero cells on development of eight cell mouse embryo after vitrification. The 5<sup>th</sup> International Congress of Iranian Anatomical Sciences, Tehran, Iran, 1380 (2001)
- 11- Fathi F, Tiraihi T, **Movahedin M**, SAdeghizadeh M, Mowla SJ. Induction of in vitro differentiation of P19 cells into neuron like cells. The 5<sup>th</sup> International Congress of Iranian Anatomical Sciences, Tehran, Iran, 1380 (2001)
- 12- Koruji SM, **Movahedin M**, Valujerdi MR. Effects of epidermal growth factor on in vitro development of mouse morula. The 5<sup>th</sup> International Congress of Iranian Anatomical Sciences, Tehran, Iran, 1380 (2001)
- 13- Hassani H, Salsabili N, Pasbakhsh P, **Movahedin M**. Vitrification of mouse pronucleous using Ethylene Glycol. The 5<sup>th</sup> International Congress of Iranian Anatomical Sciences, Tehran, Iran, 1380 (2001)
- 14- Movaghar B, **Movahedin M**, Rezazadeh M, Baharvand H. Study the development of mouse zygotes after vitrification in MEM alpha medium with and without co-culture. The 5<sup>th</sup> International Congress of Iranian Anatomical Sciences, Tehran, Iran, 1380 (2001)
- 15- Hatami L, **Movahedin M**, Tiraihi T. Mouse sperm cryopreservation using Rafinose as cryoprotectant. The 5<sup>th</sup> International Congress of Iranian Anatomical Sciences, Tehran, Iran, 1380 (2001)
- 16- Nikpoor P, Hamidi A, Mowla SJ, **Movahedin M**, Ziaee AM. Down regulation of CatSper gene expression in infertile men without sperm motility. The First Congress of Cell and Molecular Biology, Ahvaz, Iran, 1380 (2001)
- 17- Khafri S, Kazemnejad A, **Movahedin M**, Sadat Hashemi SM. The effects of different factors in treatment of War Victims in view of statistics. Shahed University, Tehran, Iran, 1381 (2002)
- 18- Khafri S, Kazemnejad A, Sadat Hashemi SM, **Movahedin M**. Lack of stability of artificial neural network. 6<sup>th</sup> International Congress of Iran Statistics, Tehran, Iran, 1381 (2002)



- 19- **Movahedin M**, Absalan F, Mowla SJ. Vitrified embryos respond differently to TNF- $\alpha$ . News of Fertility and Infertility from Immunology View, Isfahan, Iran, 1382 (2003)
- 20- Ghorbanzadeh N, **Movahedin M**, Tiraihi T. 16<sup>th</sup> Iranian Congress of Physiology & Pharmacology, Tehran, Iran, 2003
- 21- Absalan F, **Movahedin M**, Mowla SJ. The effects of inclusion of Tumor Necrosis Factor on in vitro development of preimplantation mouse embryo. 16<sup>th</sup> Iranian Congress of Physiology & Pharmacology, Tehran, Iran, 1382 (2003)
- 22- Esmaili F, **Movahedin M**, Mowla SJ, Tiraihi F. Cytotoxicity effect of deprenyl on a murine embryonic stem cell line (CCE cells). 16<sup>th</sup> Iranian Congress of Physiology & Pharmacology, Tehran, Iran, 1382 (2003)
- 23- Fathi F, Tiraihi T, **Movahedin M**, Mowla SJ. Improvement the condition of rats used as an animal model for Parkinson's disease using embryonic stem cell and differentiated embryonic stem cell transplantation. 16<sup>th</sup> Iranian Congress of Physiology & Pharmacology, Tehran, Iran, 1382 (2003)
- 24- **Movahedin M**, Koruji SM, Anjamrooz SH. Determination of the effects of epidermal growth factor on developmental rates of preimplantation mouse embryo. 16<sup>th</sup> Iranian Congress of Physiology & Pharmacology, Tehran, Iran, 1382 (2003)
- 25- Sepehrara, M, Naserian J, Babaie GH, **Movahedin M**, Ajeen A. Using phasic statistical models in experimental researches. 6<sup>th</sup> International Meeting of Anatomical Sciences Society, Shiraz, Iran, 1383 (2004)
- 26- **Movahedin M**. Determination of the effects of epidermal growth factor on developmental rates of preimplantation mouse embryo. 6<sup>th</sup> International Meeting of Anatomical Sciences Society, Shiraz, Iran, 1383 (2004)
- 27- Koruji SM, **Movahedin M**, Valojerdi MR. Effects of epidermal growth factor on in vitro development of vitrified mouse morula. 6<sup>th</sup> International Meeting of Anatomical Sciences Society, Shiraz, Iran, 1383 (2004)
- 28- Hatami L, **Movahedin M**, Tiraihi T. Ultrastructure of mouse sperm after freezing- thawing procedure. 6<sup>th</sup> International Meeting of Anatomical Sciences Society, Shiraz, Iran, 1383 (2004)
- 29- Khoshvaghti A, **Movahedin M**, Bayat M, Hosseini A, Sadeghi Y. Study the effects of low power Helium-Neon irradiation on different parameters and ultrastructure of fresh and frozen-thawed human sperm. 6<sup>th</sup> International Meeting of Anatomical Sciences Society, Shiraz, Iran, 1383 (2004)
- 30- Anjamrooz AH, **Movahedin M**, Tiraihi T. The effects of Busulfan on testis of adult mouse. 6<sup>th</sup> International Meeting of Anatomical Sciences Society, Shiraz, Iran, 1383 (2004)
- 31- Rashidi I, **Movahedin M**, Tiraihi T. The effects of pentoxiphylline on mouse sperm after short preservation. 6<sup>th</sup> International Meeting of Anatomical Sciences Society, Shiraz, Iran, 1383 (2004)
- 32- Esmaili F, Tiraihi T, **Movahedin M**. Deprenyl causes neuronal induction and neurotrophic factors expression in embryonic stem cells. 14<sup>th</sup> National and Second International Iranian Biological Congress, Tehran, Iran, 1385 (2006)

- 33- Abouhamzeh B, Salehi M, **Movahedin M**, Nasr Esfahani MH. Relation between sperm nuclear condensation and successful of ICSI in spinal cord injuries infertile men using CMA3 staining. 7<sup>th</sup> International Meeting of Anatomical Sciences Society, Shiraz, Iran, 1385 (2006)
- 34- Khalatbari A, Tiraihi T, **Movahedin M**. Improvement of contusion spinal cord injury using intravenous injection of bone marrow stromal cells. 7<sup>th</sup> International Meeting of Anatomical Sciences Society, Shiraz, Iran, 1385 (2006)
- 35- Shahverdi A, **Movahedin M**, Rezazadeh Valojerdi M, Kazemi Ashtiani. Comparison the effects of Progesterone and Calcium ionophor treatment on mouse sperm parameters and fertilization. 7<sup>th</sup> International Meeting of Anatomical Sciences Society, Shiraz, Iran, 1385 (2006)
- 36- Koruji M, **Movahedin M**, Mowla SJ, GFurabi H. Morphological changes of mouse testis after Gama irradiation. 7<sup>th</sup> International Meeting of Anatomical Sciences Society, Shiraz, Iran, 1385 (2006)
- 37- Naqi Khani M, Tiraihi T, **Movahedin M**. Improvement of motor function of semi sectional spinal cord injury following transplantation of bone marrow stromal cells. 7<sup>th</sup> International Meeting of Anatomical Sciences Society, Shiraz, Iran, 1385 (2006)
- 38- Abouhamzeh B, Salehi M, **Movahedin M**, Nasr Esfahani MH. Relation between sperm nuclear condensation in infertile men with and without spinal cord injuriyusing CMA3 staining. 7<sup>th</sup> International Meeting of Anatomical Sciences Society, Shiraz, Iran, 1385 (2006)
- 39- Esmaili F, Tiraihi T, **Movahedin M**, Mowla SJ. Isolation of embryonic stem cells using co-culture with Vero cells and their induction into neuronal like cells. 7<sup>th</sup> International Meeting of Anatomical Sciences Society, Shiraz, Iran, 1385 (2006)
- 40- Tiraihi T, Fathi F, Mowla SJ, **Movahedin M**. Differentiation of embryonic stem cells (CCE) into neuronal like cells. 7<sup>th</sup> International Meeting of Anatomical Sciences Society, Shiraz, Iran, 1385 (2006)
- 41- Janzadeh N, **Movahedin M**, Tiraihi T. The effects of Melatonin on mouse brain cortex following cold injury. 7<sup>th</sup> International Meeting of Anatomical Sciences Society, Shiraz, Iran, 1385 (2006)
- 42- Rashidi I, **Movahedin M**, Tiraihi T. The effects of Progesterone on mouse sperm after short preservation. 7<sup>th</sup> International Meeting of Anatomical Sciences Society, Shiraz, Iran, 1385 (2006)
- 43- Fathi F, Tiraihi T, Mowla SJ, **Movahedin M**. Improvement of Parkinson's symptoms in rats after transplantation of embryonic stem cells. 7<sup>th</sup> International Meeting of Anatomical Sciences Society, Shiraz, Iran, 1385 (2006)
- 44- Namavari M, **Movahedin M**, Tiraihi T. The effects of cold injury on sensori-motor cortex of adult mouse. 7<sup>th</sup> International Meeting of Anatomical Sciences Society, Shiraz, Iran, 1385 (2006)
- 45- Rezaian J, **Movahedin M**, Mowla SJ. Spinal cord injury causes reduction in motility, viability and normal morphology rates of mouse spermatozoa. 4<sup>th</sup> Congress of Spinal Cord Injury, Tehran, Iran, 1386 (2007)

- 46- Rezaian J, **Movahedin M**, Mowla SJ. Practical atomic force microscopy biological usage. National Biology Seminar, Marand, Iran, 1386 (2007)
- 47- Shahverdi A, **Movahedin M**, Rezazadeh Valojerdi M, Kazemi Ashtiani. Study development of constructed oocytes of aging mouse with nuclear transfer technique after in vitro fertilization with activated sperm. 13<sup>th</sup> Congress of Iranian Society for Reproductive Medicine, Tehran, Iran, 1385 (2007)
- 48- **Movahedin M**, Ghorbanmehr N, Alamolhoda Z, Khafri S. Study the effective sperm parameters in prediction of IUI successful. 13<sup>th</sup> Congress of Iranian Society for Reproductive Medicine, Tehran, Iran, 1385 (2007)
- 49- Fathi F, Tiraihi T, **Movahedin M**, Mowla SJ. Producing Embryoid bodies from embryonal stem cells using siliconized Petri dishes. 13<sup>th</sup> Congress of Iranian Society for Reproductive Medicine, Tehran, Iran, 1385 (2007)
- 50- Mohamadi SH, **Movahedin M**, Mowla SJ. The effects of different doses of Slenium treatment on sperm parameters of aging mouse. 13<sup>th</sup> Congress of Iranian Society for Reproductive Medicine, Tehran, Iran, 1385 (2007)
- 51- Anjamrooz AH, **Movahedin M**, Mowla SJ. Nursing role of Sertoli cells during cryopreservation of spermatogonial stem cells. 13<sup>th</sup> Congress of Iranian Society for Reproductive Medicine, Tehran, Iran, 1385 (2007)
- 52- Rezaian J, **Movahedin M**, Mowla SJ. Study sperm parameters and CatSper gen expression in mouse model of contusion spinal cord injury. 13<sup>th</sup> Congress of Iranian Society for Reproductive Medicine, Tehran, Iran, 1385 (2007)
- 53- Moradkhani O, Shahidi Z, **Movahedin M**, Sheikhi R. The effects of Platelet Activating Factor (PAF) on motility rate of spinal cord injuries frozen-thawed sperm. 13<sup>th</sup> Congress of Iranian Society for Reproductive Medicine, Tehran, Iran, 1385 (2007)
- 54- Rashidi I, **Movahedin M**, Tiraihi T. The effects of Progesterone and Pentoxyphilline on mouse sperm after short time preservation. 13<sup>th</sup> Congress of Iranian Society for Reproductive Medicine, Tehran, Iran, 1385 (2007)
- 55- Rezaian J, **Movahedin M**, Mowla SJ. Spinal cord injury decreases normal morphology and motility rate of mouse sperm. 4<sup>th</sup> Congress of Spinal Cord Injuries, Tehran, Iran, 1386 (2007).
- 56- Rezaian J, **Movahedin M**, Mowla SJ. Biological uses of Practical atomic force microscopy. National Biology Congress, Marand, Iran, 1386 (2007).
- 57- Nazm Bojnordi M, **Movahedin M**, Amanpour S Ghasemi H. Effect of Alpha- Tocopherol supplementation on human semen quality and sperm parameters. 8<sup>th</sup> Royan International Twin Congress, Tehran, Iran, 1386 (2007).
- 58- Mohamadi SH, **Movahedin M**, Mowla SJ. Improvement of aging mouse sperm parameters following Selenium treatment. 18<sup>th</sup> Congress of Iranian Physiology and Pharmacology, Mashad, Iran, 1386 (2007).
- 59- Rezaian J, **Movahedin M**. Study acrosomal reaction and capacitation in mouse sperm by Atomic Force Microscope. 2<sup>nd</sup> National Congress of Animal Science, Rasht, Iran, 1386 (2007).

- 60- Absalan F, **Movahedin M**, Mowla SJ. Assessment of morphological and functional changes in the mouse testis and epididymal sperms following unilateral and bilateral cryptorchidism. 14<sup>th</sup> Congress of Iranian Society for Reproductive Medicine, Yazd, Iran, 1386 (2008)
- 61- Estiri H, **Movahedin M**, Fallah A, Aghazadeh M, Chaparzadeh N. Differentiation of mouse embryonic stem cells to neuron like cells after transfection with GFP<sup>+</sup>, Pru<sup>ru</sup>, and Non-Silencing sh RNA vector. 14<sup>th</sup> Congress of Iranian Society for Reproductive Medicine, Yazd, Iran, 1386 (2008)
- 62- Makulati Z, **Movahedin M**, Forouzandeh Moghadam M. Effects of different doses of Bone Morphogenetic Protein 4 on the viability and proliferation of CCE mouse embryonic stem cells. 14<sup>th</sup> Congress of Iranian Society for Reproductive Medicine, Yazd, Iran, 1386 (2008)
- 63- Nazm Bojnordi M, **Movahedin M**, Ghasemi H, Amanpour S. Effect of antioxidants supplementation on human sperm parameters after freezing. 14<sup>th</sup> Congress of Iranian Society for Reproductive Medicine, Yazd, Iran, 1386 (2008)
- 64- Mirzapoor T, **Movahedin M**, Tengku Azmi I, Koruji M, Nowroozi MR, Radkhah K, Rafeian. Development of an in vitro culture system capable of supporting human spermatogonia stem cell colonization. 14<sup>th</sup> Congress of Iranian Society for Reproductive Medicine, Yazd, Iran, 1386 (2008).
- 65- Shahverdi A, **Movahedin M**, Rezazadeh Valojerdi M, Kazemi Ashtiani S. Ultrastructural study of mice embryos obtained from old reconstructed oocytes. 15<sup>th</sup> Congress of Iranian Society for Reproductive Medicine, Tehran, Iran, 1387 (2009).
- 66- Absalan F, **Movahedin M**, Mowla SJ. Germ cell apoptosis induced by experimental cryptorchidism is mediated by multiple molecular pathways in mouse. 15<sup>th</sup> Congress of Iranian Society for Reproductive Medicine, Tehran, Iran, 1387 (2009).
- 67- Serati Nouri H, Azarmi Y, **Movahedin M**. Effect of growth hormone on testicular dysfunction induced by Mthotrexate (MTX) in rats. 15<sup>th</sup> Congress of Iranian Society for Reproductive Medicine, Tehran, Iran, 1387 (2009).
- 68- Makulati Z, **Movahedin M**, Forouzandeh Moghadam M. Dvelopmental assay of Stra8 gene expression during germ cell differentiation in embryoid body. 15<sup>th</sup> Congress of Iranian Society for Reproductive Medicine, Tehran, Iran, 1387 (2009).
- 69- Hatami L, **Movahedin M**. Acrosomal mouse sperm changes after cryopreservation. 15<sup>th</sup> Congress of Iranian Society for Reproductive Medicine, Tehran, Iran, 1387 (2009).
- 70- Mohammadi SM, **Movahedin M**, Koruji M. The comparison of number and diameter of mouse spermatogonial stem cell colonies after co-culture with sertoli and STO cells. 15<sup>th</sup> Congress of Iranian Society for Reproductive Medicine, Tehran, Iran, 1387 (2009).
- 71- **Movahedin M**, Nazm Bojnordi M. From germ cell to stem cell. The Third International Student Award and Congress in Reproductive Medicine, Yazd, Iran, 1388 (2009).
- 72- Mirzapoor T, **Movahedin M**, Azmi Ibrahim T, Haron AW, Othman F, Nowroozi MR. Isolation, purification, enrichment and cryopreservation of human spermatogonial stem cells from testis of azoospermic men. The Third International Student Award

and Congress in Reproductive Medicine, Yazd, Iran, 1388 (2009).

73- Mohammadi SM, **Movahedin M**. Comparing of colony formation of spermatogonial stem cells of adult mice after co-culture with sertoli and STO cells. The Third International Student Award and Congress in Reproductive Medicine, Yazd, Iran, 1388 (2009).

74- Absalan F, **Movahedin M**, Mowla SJ. Spermatogonial transplantation and subsequent orchidopexy in bilateral cryptorchid mouse model. The Third International Student Award and Congress in Reproductive Medicine, Yazd, Iran, 1388 (2009).

75- **Movahedin M**, germ cells from embryonic stem cell; and now embryonic stem cell from germ cell .iranian congress on biology and Applications of stem cells mashhad, Iran,1390 (2011 )

76- Zahiri M , **Movahedin M**, Mowla SJ, noruzinia M.the effect of human spermatogonial stem cells niche on their enrichment and colony formation.

iranian congress on biology and Applications of stem cells mashhad , Iran , 1390 (2011)

## 10- Finished Researches

\* Study the effects of TNF-alpha and EGF on development of vitrified mouse morulae.

\* Cryopreservation of limited number of human sperm within mouse and human empty zona pellucida.

\* Isolation, proliferation and purification spermatogonial stem cells and transplantation into mouse azospermia model.

## 11- Supervisor of following thesis:

**A- M.Sc.**

1- The effects of two different cryoprotectants on fertility rate of mouse sperm.

**Leili Hatami**

2- The effects of epidermal growth factor (EGF) on development of vitrified mouse morulae.

**Morteza Koruji**

3- The effects of tumor necrosis factor alpha (TNF-alpha) on development of vitrified mouse morula and expression of its receptors

**Foruzan Absalan**

4- In vitro maturation of frozen-thawed mouse round spermatid using co-culture with Vero cells

**Alireza Ajeen**

5- In vitro maturation of frozen-thawed mouse round spermatid using recombinant FSH and testosterone

**Nasrin Ghorbanzadeh**

6- Evaluation of the ability of pentoxifylline and progesterone to enhance motility and fertilization rate in cooling mouse-spermatozoa to 4° C.

**Iraj Rashidi**

7- The study of the effects of association of sonotherapy with testosterone administration to induce temporary azoospermia in mouse.

**Farhad Mortezaazadeh Meymand**

8- The effects of epidermal growth factor on development and its receptor expression in vitrified mouse embryo.

**Nassim Ghorbanmehr**

9- Effects of Magnesium-Chloride in treatment of mouse brain sensori-motor giry using brain edema model.

**Maryam Namavari**

10- Effects of antioxidant Melatonin in treatment of mouse brain sensori-motor giry using brain edema model.

**Narges Janzadeh**

11- CatSper gene expression changes in mouse model of contusion spinal cord injury.

**Jafar Rezaian**

12- Effects of Slenium treatment on sperm parameters and CatSper gene expression of aging mouse.

**Shabnam Mohamadi**

13- Evaluating Survivin gene expression changes following mouse Sciatic nerve and spinal cord injuries.

**Sara Amiri**

14- Comparing of colony formation of spermatogonial stem cells of adult mouse after co-culture with sertoli and fibroblast cell lines (STO).

**Seyede Momeneh Mohamadi**

## **B- Ph.D.**

1-Increase of fertilization rate of constructed oocyte using activated sperm by progesterone

**Majid Katebi**

2-Study the effects of radiation of Low Power Helium-Neon Laser on count, motility, morphology and ultrastructure of fresh and frozen-thawed human sperm.

**Amir Khoshvaghti**

3- Transplantation of immature mouse frozen-thawed germ cells into azospermia mouse testis.

**Abdolhadi Anjamrooz**

4- Study development and ultrastructure of constructed oocytes of aging mouse with nuclear transfer technique after in vitro fertilization with activated sperm. **Abdolhosein Shahverdi**

5- Autograft adult mouse spermatogonial stem cells transplantation into azospermia mouse using Gama irradiation after in vitro treatment with inducer factors.

**Morteza Koruji**

6- Evaluating the expression of Bcl-2, p53, Bax and Survivin after transplantation of spermatogonial stem cells in testis of unilateral cryptorchidism model.

**Foruzan Absalan**

7- Male germ cell production from mouse embryonic stem cell following co-culture or treatment with BMP4 in vitro and transplantation to testis of adult mouse azospermia model

**Zohreh Makoolati**

## **12- Consultant of following thesis:**

### **A- M.Sc.**

- 1- The effects of simultaneous co-culture and sequential media on development of vitrified mouse zygotes.  
**Bahar- Movaghar**
- 2- The effects of simultaneous co-culture and sequential media on development of vitrified eight cell mouse embryos.  
**Mina- Ghanei**
- 3- Evaluation of CatSper gene expression in biopsies taken from testis and its relation to infertility  
**Parvaneh Nikpoor**
- 4- Artificial neural network models for predicting the successful rate of ART.  
**Soraya Khafri**
- 5- Study the mouse bone marrow stromal cells transplantation into hemi sectional spinal cord injury.  
**Mehrdad Naqi Khani**
- 6- Fuzzy clustering of categorical multivariate data and comparison with correspondence analysis in spermatid cells culture data.  
**Masoumeh Sepehrara**
- 7- Behavioral and histological studies of the effects of intermitten feeding in development and expression of seizures in pilocarpine model of temporal lobe epilepsy in male rats.  
**Neda Parinezhad Khameneh**

## **B- Ph.D.**

- 1- Evaluation of neurotrophin expression induction in embryonic stem cell by deprenyl after in vitro differentiation into neuroepithelial cell  
**Fariba Esmaili**
- 2- Implantation of differentiated p19 cells into the Parkinsonism mice after cell transfection with BDNF and GDNF  
**Fardin Fathi**
- 3- Implantation of differentiated Bone Marrowat bone marrow stromal cells and spinal cord- nerve injury t  
**Maryam Kashani**
- 4- Improvement of contusion spinal cord injury using intravenous injection of bone marrow stromal cells.



**Alireza Khalatbari**

5- Comparative study and interfering in expression profile of neurotrophins, their receptors and prohormone convertases gene in rat bone marrow stromal cells and spinal cord- nerve injury tissues.

**Zahra Hajebrahimi**

6- Modelling bivariate count data and its application in medicine data

**Soraya Khafri**

### **13- Qualified in the following courses:**

#### **A- M.Sc.**

- 1- Neuro Anatomy
- 2- Head & Neck Anatomy
- 3- Upper & Lower Limbs Anatomy
- 4- Trunk Anatomy
- 5- Clinical Anatomy
- 6- General Anatomy
- 7- Embryology

#### **B- Ph.D.**

- 1- Advanced Neuro Anatomy
- 2- Surface Anatomy
- 3- Preparation of Anatomical Models
- 4- Radiology Anatomy
- 5- Anthropology

### **14- Membership in Scientific Society:**

- 1- Iranian Anatomical Sciences Society

2- Iranian Society of Reproductive Medicine

3- European Society of Human Reproduction (ESHRE)

#### **15- Referees:**

1- Taki Al-Tiraihi , Ph.D. Professor of Anatomy Dept. Tarbiat Modarres University, Tehran, Iran.

2\_ Mojtaba Rezazadeh Valojerdi , Ph.D Professor of Anatomy Dept. Tarbiat Modarres University, Tehran, Iran.

6- Ahmad Hosseini , Ph. D. Professor Anatomy Dept. Shahid Beheshti University, Tehran, Iran.

#### **16- Others:**

- Research visitor in I.R.D. Institute, Monash University, Melbourne Australia for 3 months, 1999.
- National Award Winner of the 7<sup>th</sup> International Royan Award, 2006.
- Nominated Professor of Tarbiat Modares University, 2009