

Curriculum Vitae



Dr Morteza Koruji

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EDUCATION:

- 2002-2007** Tarbiat Modares University, Tehran, Iran
Ph.D. in Anatomical Sciences
“Autograft of fresh and frozen-thawed mature mouse spermatogonial cells after co-culture with Sertoli cells and in vitro treatment with GDNF, SCF and GM-CSF into azoospermia mouse model generated by gamma irradiation” supervised by prof. Mansoure Movahedin.
- 1999-2001** Tarbiat Modares University, Tehran, Iran
Master in Anatomical Sciences
“Assessment of Epidermal Growth Factor (EGF) Effects on Development of Vitrified Mouse Morulae” supervised by prof. Mansoure Movahedin.

Professional Experiences:

Teaching Experience:

- 2003-Present** Lecturer in IUMS, TUMS, USWR, Shahid Beheshti and Shahed Tehran, Iran
Subjects Taught: Histology, Embryology, Stem cells, IVF in animal lab, Anatomy, Anatomy & Histology Lab for B.Sc., Medical, MSc and Ph.D. students.

Research Experience:

- 2014 -Present** Associate professor, Department of Anatomical Sciences, **Iran University of Medical Sciences**, Tehran, Iran.
- 2009- 2014** Assistant professor, Department of Anatomical Sciences, **Iran University of Medical Sciences**, Tehran, Iran.
- 2008-2010** Researcher, Department of Stem Cell, **Royan Institute**, Tehran, Iran
- 2007-2008** Researcher, Fertility Laboratory of the **Academic Medical Center (AMC)**, Faculty of Medicine of the University of Amsterdam (Amsterdam, Netherlands),

Work on “molecular characterization of human spermatogonial cells”, with: Dr. Ans van Pelt and Dr. Sjored Repping

1999-2007 Lecturer and Researcher (Student), Department of Anatomical Sciences, School of Medical Sciences, **Tarbiat Modares University**, Tehran, Iran

Memberships of Scientific Societies:

- European Society of Human Reproduction and Embryology(ESHRE)
- Iranian Anatomical Science Society
- Iranian Infertility Society

Technical Experiences:

- Expertise in isolation, Purification, Cultivation and cryopreservation of Spermatogonial stem Cells (rodent and human)
- Expertise in SSCs Transplantation into mouse testes
- Experienced in Immunohistochemistry and Immunocytochemistry Methods
- Experienced in Molecular techniques (RT-PCR)
- Experienced in light, fluorescence and electron microscopy
- Culture, Vitrification and Manipulation of Embryo
- Trained in the ICSI

PUBLICATIONS:

English:

1. Shabani R, Ashtari Kh, Behnam B, Izadyar F, Abolhasani F, Asghari- Jafarabadi M, Asadi E, **Koruji M**. In vitro toxicity assay of cisplatin on mouse acute lymphoblastic leukemia and Spermatogonial stem cells. Under submission.
2. Azizollahi S, Aflatoonian R, Sedigi-Gilani MA, Tajik, N, Behnam B, Asghari Jafarabadi, **Koruji M**. Sperm production following spermatogonial stem cells transplantation in testicular-torsion-detorsion mice. Under submission.
3. Mirzapour T, Movahedin M, **Koruji M**, Nowroozi MR. Xenotransplantation assessment: morphometric study of human spermatogonial stem cells in recipient mouse testes. *Andrologia*. 2014.
4. Azizollahi S, Aflatoonian R, Sedigi-Gilani MA, Asghari Jafarabadi M, Behnam B, Azizollahi G, **Koruji M**. Recruiting testicular torsion introduces an azoospermic mouse model for spermatogonial stem cell transplantation. *Urol J*. 2014; 11(3):1648-55.
5. Amini M, Shirinbayan P, Behnam B, Roghani M, Farhoudian A, Joghataei MT, **Koruji M**. Correlation between expression of CatSper family and sperm profiles in the adult mouse testis following Iranian Kerack abuse. *Andrology*. 2014; 2(3):386-93.
6. Tajaddini S, Ebrahimi S, Behnam B, Bakhtiyari M, Joghataei MT, Abbasi M, Amini M, Amanpour S, **Koruji M**. The antioxidant effect of manganese on the testis structure and sperm parameters of formalin-treated mice. *Andrologia*. 2014; 46(3):246-53.
7. Khajavi N, Akbari M, Abdolsamadi HR, Abolhassani F, Dehpour AR, **Koruji M**, Habibi Roudkenar M. Role of Somatic Testicular Cells during Mouse Spermatogenesis in Three-Dimensional Collagen Gel Culture System. *Cell J*. 2014 Feb 3;16(1):79-90.

8. Eslahi N, Hadjighassem M, Joghataei M, Mirzapour T, Bakhtiyari M, Shakeri M, Pirhajati V, Shirinbayan P and **Koruji M**. The effects of poly L-lactic acid nanofiber scaffold on mouse spermatogonial stem cell culture. *International Journal of Nanomedicine*. 2013;8 1–14
9. Asadi MH, Zafari F, Sarveezad A, Abbasi M, Safa M, **Koruji M**, Yari A, Alizadeh Miran R. Saffron improves epididymal sperm parameters in rats exposed to cadmium. *Nephrourol Mon*. 2013 4;6(1):e12125
10. Moradi K, Abbasi M, Aboulhasani F, Rastegar T, Asgari H, Abbasi M, Latifpour M, **Koruji M**, Sargolzaei Aval F, Salehi M and Mohammadi Rad M. Restoration of Heart Function Using Transplantation of Human Umbilical Cord Matrix-Derived Cardiomyocytes and Vascular Endothelial Growth Factor. *The Open Tissue Engineering and Regenerative Medicine Journal*, 2013; 6: 26-36.
11. Shakeri M, Kohram M, Shahverdi A, Zare Shahneh A, Tavakolifar F, Pirouz M, Moradi Shahrehabak H, **Koruji M**, Baharvand H. Behavior of mouse spermatogonial stem-like cells on an electrospun nanofibrillar matrix. *J Assist Reprod Genet*. 2013;30(3):325-32.
12. **Koruji M**, Movahedin M, Mowla SJ, Gourabi H, Pour-Beiranvand S, Arfaee AJ. Autologous Transplantation of Adult Mice Spermatogonial Stem Cells into Gamma Irradiated Testes. *Cell Journal(Yakhteh)* 2012 2012;14(2): 82-9.
13. **Koruji M**, Shahverdi A, Janan A, Piryaei A, Lakpour MR, Gilani Sedighi MA. Proliferation of small number of human spermatogonial stem cells obtained from azoospermic patients. *J Assist Reprod Genet*. 2012: 29, 957-967.
14. Mirzapour T, Movahedin M, Tengku Ibrahim TA, **Koruji M**, Haron AW, Nowroozi MR, et al. Effects of basic fibroblast growth factor and leukaemia inhibitory factor on proliferation and short-term culture of human spermatogonial stem cells. *Andrologia*. 2012; 44:41-55.
15. Mohamadi SM, Movahedin M, **Koruji SM**, Jafarabadi MA, Makoolati Z. Comparison of colony formation in adult mouse spermatogonial stem cells developed in Sertoli and STO coculture systems. *Andrologia*. 2012 May;44 Suppl 1:431-7.
16. Tavakolifar F, Shahverdi A, Pirouz M, Shakeri M, **Koruji M**, Baharvand H. Comparison of Neonatal and Adult Mice-derived Sertoli Cells in Support of Expansion of Mouse Spermatogonial Stem Cells In vitro. *Int J Fertil Steril*. 2012;5(4):217-24.
17. Mirzapour T, Ibrahim TABT, Movahedin M, Haron AW, Siraj SS, **Koruji M**, Nowroozi MR, Rafeian S. Stem cells research and its applications: A review. *J. Applied Sci.*, 2011; 11: 163-173.
18. Ayyoubian M, **Koruji M**. A rare anatomical variant of ansa cervicalis: case report. *Medical Journal of the Islamic Republic of Iran (MJIRI)*. 2010. 24(4): 238-240.
19. Ardekani, H; van Daalen, SKM; Korver, CM; Roepers-Gajadien, HL; **Koruji, M**, Hovingh, SE; De Reijcke, ThM; de la Rosette, JJMCH; van der Veen, F; Mizrak, SC; de Rooij, DG ; Repping, S; van Pelt, AMM. Long term proliferation of human spermatogonial stem cells in vitro. *Journal of the American Medical Association (JAMA)*. 2009, 302 (19): 2127-2134.
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21. **Koruji SM**, Movahedin M, Mowla SJ, Gourabi H, Arfaee AJ. The morphological changes of adult mouse testes after ⁶⁰Co γ -Radiation. *The Iranian Biomedical Journal (IBJ)*. 2008, 12(1): 35-42.
22. **Koruji SM**, Movahedin M, Mowla SJ, Gourabi H, Arfaee AJ. Colony formation ability of frozen thawed spermatogonial stem cell from adult mouse. *Iranian Journal of Reproductive Medicine*. 2007, 5 (3):109-115.

23. **Koruji SM**, Movahedin M, Valojerdi MR. Assessment of Epidermal Growth Factor (EGF) Effects on Development of Vitrified Mouse Morulae to the Blastocyst Stage. *Iranian Biomedical Journal*. 2004, 8 (2): 77-82.

Persian:

1. Amini M, Roghani M, Shirinbayan P, Joghataei MT, Farhoudian A, Roshanpajouh M and **Koruji M**. Effects of Kerack used in addict Iranian people on fertility of adult mice. *Tehran University Medical Journal* 2013; 71 (5) :293-302
2. Slahi N, Hadjighassem MR, Joghataei MT, Bakhtiyari M, Ayyoubiyan M, Asadi MH, **Koruji M**. The effects of PLLA nanofiber scaffold on proliferation of frozen-thawed neonate mouse spermatogonial stem cells. *Journal of Iranian Anatomical Sciences*. 2012; 9(37):279-94(Farsi).
3. Mohamadi SM, Movahedin M, **Koruji SM**. A Comparison between the Colony Formation of Adult Mouse Spermatogonial Stem Cells in Co cultures with Sertoli and STO (Mouse Embryonic Fibroblast Cell Line). *Yakhteh Medical Journal*. 2010;12(2):231-40(Farsi).
4. Ayyoubian M, **Koruji M**. he Case Report: a Rare Anatomical Variant of Ansa Cervicalis. *Journal of Iranian Anatomical Sciences*2010.8:161-164(Farsi).
5. Tavakoli F, Shahverdi A, Pirouz M, Shakeri M, **Koruji M**, Baharvand H. The Effect of Laminin and Gelatin Extracellular Matrix on Short-term Cultivation of Neonate Mouse Spermatogonial Stem Cells. *Iranian Journal of Anatomical Sciences*. 2010, 8(1)37-48. (Farsi).
6. **Koruji SM**, Azizi H, Shahverdi AH, Baharvand H. Mouse and human spermatogonial stem cells (Review article). *Medical journal of Yakhteh* (Farsi), 2010; 12(2):147-58(Farsi).
7. **Koruji SM**, Movahedin M, Mowla SJ, Gourabi H, Arfaee AJ. The effects of inducer factors on adult mouse spermatogonial cells colony formation *in vitro*. *Medical journal of Yakhteh* (Farsi). 2007, 9 (34), 141-150.
8. **Koruji SM**, Movahedin M, Mowla SJ, Gourabi H. Colony formation efficiency of frozen-thawed adult mouse spermatogonial stem cells in co culture with Sertoli cell. *Iranian Journal of Anatomical Sciences*. 2007, 4(4): 303-317. (Farsi).
9. **Koruji SM**, Movahedin M, Valojerdi MR. The effects of epidermal growth factor on vitrified mouse morulae. *Modares Medical Journal*. 2004, 6 (2): 103-110. (Farsi)
10. **Koruji SM**, Movahedin M, Valojerdi MR. Assessment of epidermal growth factor effects on development of mouse morulae. *Journal of Shahid Sadoughi University of Medical Sciences and Health Services*. 2003, 11: 58-67. (Farsi)
11. Movahedin M, **Koruji SM**, Anjamrooz SH. Assessment of epidermal growth factor on development of preimplantation mouse embryos. *Journal of Iranian Anatomical Sciences*. 2003, 2: 31-37. (Farsi)

PRESENTATION:

1. Mohamadzadeh E, Nahid A, Shirinbayan P, Joghataei MT, Farhoudian A, Koruji M. ISERB 2015 Congress. Tehran Iran.
2. Shabani R, Ashtari Kh, Ashjari M, Izadyar F, Behnam B, Abolhasani F, Khoei S, Koruji M. ISERB 2015 Congress. Tehran Iran.
3. Shabani R, Abolhasani F, Ashtari Kh, Ashjari M, Izadyar F, Behnam B, Khoei S, Koruji M. 6th Yazd International Congress and Student Award in Reproductive Medicine with 1st Reproductive Genetic Congress. Yazd, Iran. April 2015.
4. Shabani R, Ashtari Kh, Ashjari M, Izadyar F, Behnam B, Abolhasani F, Khoei S, **Koruji M**. International Congress on Biomaterials and Biosensors. Mugla, Turkey, 2015

5. Shabani R, Ashtari Kh, Ashjari M, Izadyar, Behnam B, Abolhasani F, Khoei S, **Koruji M**. Nanomedicine in Diagnosis and Treatment of Hard to Treat Diseases, Tehran, Iran, 2015.
6. Shabani R, Ashtari Kh, Ashjari M, Izadyar, **Koruji M**. Asian Nano Forum (ANF). Kish Island, Iran, 2015.
7. **Koruji M**, Amini M, Shirinbayan P, Farhoudian A, Dadkhah A. International Society of Addiction Medicine (ISAM) World Congress. Yokohama, Japan, 2014.
8. Lakpour MR, Rajabian-Naghandar M, Shahverdi AH, Sadighi Gilani MA, **Koruji M**, Aghajanpour S, Sabbaghian M, Aflatoonian R. 15th Royan Congress on Reproductive Biomedicine. Tehran, Iran, 2014.
9. Amini M, Shirinbayan P, Farhoudian A, The sixth annual congress of the addiction biology. Tehran Iran, 2013.
10. Azizollahi S, Aflatoonian R, Sedighi-Gilani MA., Tajik N, Asghari- Jafarabadi M, **Koruji M**. 5 th Yazd International Congress and Student Award in Reproductive Medicine. Yazd, Iran, 2013.
11. Tajaddini S, Behnam B, Bakhtiyari M, **Koruji M**. 4th International and 19th National Congress of Iranian Society for Reproductive Medicine. Tehran Iran, 2013.
12. Eslahi Darehgorgi N, Hadjighassem M., Joghataei M, Bakhtiyari M, Ayyoubian M, Asadi M, **Koruji M**. 4th International and 19th National Congress of Iranian Society for Reproductive Medicine. Tehran, Iran, 2013.
13. Amini M, Roghani M, Shirinbayan P , Hadjighassem M, Farhoudian A, Joghataei M, **Koruji M**. 4th International and 19th National Congress of Iranian Society for Reproductive Medicine Tehran, Iran, 2013.
14. **Koruji M**. The first Iranian Annual Congress on Progress in Tissue Engineering and Regenerative Medicine (PTERM) Tehran, Iran, 2013. .
15. **Koruji M**, A. Janan, H. Azizi, T. Mirzapour, A. Shahverdi, H. Baharvand. Ottawa 2012 International Symposium on Biochemistry & Biophysics. Ottawa, Canada. 2012.
16. Tajadini S, Ebrahimi S, Bakhtiyari M, Amanpour S, Mazaheri Z, **Koruji M**. 13th Royan International Twin Congress on Reproductive Biomedicine and Stem Cells Biology & Technology. Tehran, Iran 2012.
17. Amini M, Roughani M, Shirinbayan P, Farhoudian A, **Koruji M**. 13th Royan International Twin Congress on Reproductive Biomedicine and Stem Cells Biology & Technology. Tehran, Iran 2012.
18. Tajadini S, Ebrahimi S, Bakhtiyari M, Amanpour S Mazaheri Z, **Koruji M**. 3rd International and 18th National Congress of Iranian Society for Reproductive Medicine Tabriz, Iran 2012.
19. Mohammadi S, Asghari Jafarabadi M, Movahedin M, **Koruji SM**. 3rd International and 18th National Congress of Iranian Society for Reproductive Medicine Tabriz, Iran 2012.
20. Yari A, Asadi M, joghataie M, Koruji M, Mohammadi S, Asghari Jafarabadi M, Movahedin M, **Koruji SM**. 3rd International and 18th National Congress of Iranian Society for Reproductive Medicine Tabriz, Iran 2012.
21. Amini M, Roughani M, Shirinbayan P, Farhoudian A, Koruji M. 3rd International and 18th National Congress of Iranian Society for Reproductive Medicine Tabriz, Iran 2012.
22. **Koruji, M.**; Janan, A.; Azizi, H.; Shahverdi, A.; Sedighi Gilani, M.; and Baharvand, H. 17th Congress of Iranian Society for Reproductive Medicine. Tehran, Iran, 2011.
23. **Koruji, M.**; Janan, A.; Azizi, H.; Shahverdi, A.; Mirzapour T, and Baharvand, H. 27th Annual Meeting – **ESHRE**, Stockholm, Sweden, 2011.
24. **Koruji, M.**; Janan, A.; Azizi, H.; Shahverdi, A.; and Baharvand, H. 12th Congress on Reproductive Biomedicine , Tehran, Iran, 2011.
25. **Koruji SM**, Movahedin M, Mowla SJ, Pourbeiranvand S, Gourabi H. Fertility Preservation the 15th Annual Reproduction & Infertility Seminar. Tehran, Iran, 2010.
26. Sadri-Ardekani H, Mizrak SC, **Koruji M**, van Daalen SKM, Korver CM, Roepers-Gajadien HL Hovingh SE, De Reijke ThM, de la Rosette JJMCH, van der Veen F, de Rooij DG, Repping S, van Pelt AMM. Fertility Preservation at the 15th Annual Reproduction & Infertility Seminar. Tehran, Iran, 2010. **Koruji SM**. The spermatogonial stem cells. The 16th Congress of Fertility and Infertility. Shiraz, Iran, 2010.
28. **Koruji M**, Movahedin M, Mowla S.J, Gourabi H, Pourbeiranvand Sh, Jabbri Arfaee A. The 16th Congress of Fertility and Infertility. Shiraz, Iran, 2010.
29. Ayyoubian M, **Koruji M**. The 9th Iranian Congress of Anatomical Science. Hamadan, Iran, 2010.
30. Mizrak SC, van Daalen SKM, Korver CM, Roepers-Gajadien HL, **Koruji M**, van der Veen F, de Rooij DG, Repping S, van Pelt AMM Sadri-Ardekani. The 6th Congress on Stem Cell Biology. Tehran, Iran, 2010.

31. Tavakoli F, Shahverdi A, Pirouz M, **Koruji M**, Shakeri M, Baharvand H. Comparison of mature and immature Sertoli cell co-culture on maintenance of spermatogonial stem cells in vitro. 3rd Yazd International Student Award and Congress in Reproductive Medicine. Yazd, Iran, April 2009.
32. Sadri-Ardekani H; Mizrak SC; **Koruji M**, van Daalen SKM; Korver CM; Ropers-Gajadien HL; Hovingh SE; De Reijke ThM; de la Rosette JJMCH; van der Veen F; de Rooij DG; Repping S; van Pelt AMM. Successful propagation of human spermatogonial stem cells in vitro. 25th Annual Meeting of ESHRE. Amsterdam, Netherlands, 2009.
33. Tavakoli F, Shahverdi A, Pirouz M, **Koruji M**, Shakeri M, Baharvand H. Impact of mature and immature Sertoli cells on spermatogonial stem cells proliferation. 10th Congress on Reproductive Biomedicine. Tehran, Iran, 2009.
34. Mirzapour T, Movahedin M, Tengku Azmi I, Khansarinejad B, **Koruji M**, Nowroozi MR, Radkhah B, Rafeian. Development of an in vitro culture system capable of supporting human spermatogonia stem cell colonization. 14th Congress of Iranian society fertility and infertility. Yazd, Iran, 2008.
35. Mirzapour T, Movahedin M, Ibrahim TA, Khansarinejad B, **Koruji M**, Nowroozi MR, Radkhah B, Rafeian. 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. Seventh Biennial Conference. Istanbul, Turkey, 2008.
36. Mirzapour T, Movahedin M, Ibrahim TA, Khansarinejad B, **Koruji M**, Nowroozi MR, Radkhah B, Rafeian. Colonization of human spermatogonia stem cells in vitro culture based on growth factors. Fertility infertility and Laparoscopy. Tabriz, Iran, 2008.
37. Mohamadi M, Movahedin M, **Koruji M**. Assessment of the efficiency of co-culture system on the mouse spermatogonial stem cell colonization. Fertility infertility and Laparoscopy. Tabriz, Iran, 2008.
38. Mirzapour T, Movahedin M, Ibrahim TA, Khansarinejad B, **Koruji M**, Nowroozi MR, Radkhah B, Rafeian. Annual Scientific Meeting of Middle East Fertility. Hammamet, Tunisia, 2008.
39. Mohamadi M, Movahedin M, **Koruji M**. The assessment of number and diameter of mouse spermatogonial stem cell colonies after co-culture with Sertoli cell. Annual Scientific Meeting of Middle East Fertility. Hammamet, Tunisia, 2008.
40. **Koruji SM**, Movahedin M., Mowla SJ, Gourabi Jabbari A. 13th Iranian Congress of Iranian society fertility and infertility. Tehran, Iran, 2007.
41. **Koruji SM**, Movahedin M, Mowla SJ, Gourabi H. Autograft of mature mouse spermatogonial stem cells, after in vitro treatment with SCF, GM-CSF, GDNF, into azoospermia mouse model generated by gamma irradiation. 2th International Congress of Yazd. Yazd, Iran, 2007.
42. **Koruji SM**, Movahedin M, Mowla SJ, Gourabi H. Colony formation efficiency of frozen-thawed adult mouse spermatogonial stem cells in co culture with Sertoli cell. ESHR, France, 2007.
43. **Koruji SM**, Movahedin M., Mowla SJ, Gourabi H, Jabbari A. Annual Scientific Meeting of Middle East Fertility Society. Aqaba, Jordan, 2006.
44. **Koruji SM**, Movahedin M, Mowla SJ, Gourabi Jabbari A. 7th Iranian Congress of Anatomical Science. Kashan, Iran, 2006.
45. **Koruji SM**, Movahedin M, Valojerdi MR. 6th International Meeting of Anatomical Sciences Society. Shiraz, Iran, 2004.
46. **Koruji SM**, Movahedin M, Valojerdi MR. 9th Annual Scientific Meeting of Middle East Fertility Society. Cairo, Egypt, 2002.
47. Movahedin M, **Koruji SM**, Anjamrooz AH. 9th Annual Scientific Meeting of Middle East Fertility Society. Cairo, Egypt, 2002.
48. **Koruji SM**, Movahedin M, Valojerdi MR. The 9th Congress of Fertility and Infertility. Yazd, Iran, 2001.
49. **Koruji SM**, Movahedin M, Valojerdi MR. The 5th International Congress of Iranian Anatomical Sciences. Tehran, Iran, 2001.

REFERENCES:

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