

Curriculum Vitae

Morteza Koruji, Ph.D.

Professor

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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.
- 1999-2002** 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.
- 1994-1998** University of Social Welfare and Rehabilitation Sciences.
B.Sc. in Speech therapy, “the neurological voice disorders”
Supervised by late Dr. Tahereh-Sima Shirazi.

Honors and Awards:

- 2017** Scholarship award from Ministry of Health and Medical Education, Division of Nephrology & Hypertension, Schools of Medicine and Biological Science. University of California Irvine (UCI), 2017.
- 2007-2008** Graduate scholarship award from Ministry of Health and Medical Education, Fertility Laboratory of the Academic Medical Center (AMC), Faculty of Medicine of the University of Amsterdam, The Netherlands, 2007-2008.
- 2002** Ranked second position in the TMU Ph.D. of Anatomy entrance exam, 2002.
1999 Ranked the first position in the countrywide MSc of Anatomy entrance exam, 1999.

Professional Experiences:

Teaching Experience:

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

Research Experience:

- 2020-present** Professor, Department of Anatomy, **Iran University of Medical Sciences**, Tehran, Iran.

2014 -2020	Associate professor, Department of Anatomy, Iran University of Medical Sciences , Tehran, Iran.
2009- 2014	Assistant professor, Department of Anatomy, Iran University of Medical Sciences , Tehran, Iran.
2008-2009	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. Sjoerd 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
- Iranian Scientific Association of Embryology and Reproductive Biology

Technical Experiences:

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

PUBLICATIONS:

English:

1. Mohammadi A, Shabani R, Bashiri Z, Rafiei S, Asgari H, Koruji M. Therapeutic potential of exosomes in spermatogenesis regulation and male infertility. *Biol Cell*. 2024;116(6):e2300127.
2. Mohammadi A, Koruji M, Azami M, Shabani R, Mohandesnezhad S, Bashiri Z, et al. Polycaprolactone/Testicular Extracellular Matrix/Graphene Oxide-Based Electrospun Tubular Scaffolds for Reproductive Medicine: Biomimetic Architecture of Seminiferous Tubules. *Macromol Biosci*. 2024;24(2):e2300342.
3. Mohammadi A, Bashiri Z, Rafiei S, Asgari H, Shabani R, Hosseini S, et al. Testicular niche repair after gonadotoxic treatments: Current knowledge and future directions. *Biol Cell*. 2024;116(4):e2300123.
4. Mirmohammadi M, Eskandari K, Koruji M, Shabani R, Ahadi R, Haghparast A. Intra-Accumbal D1-But not D2-Like Dopamine Receptor Antagonism Reverses the Inhibitory Effects of Cannabidiol on Extinction and Reinstatement of Methamphetamine Seeking Behavior in Rats. *Cannabis Cannabinoid Res*. 2024;9(1):89-110.
5. Bashiri Z, Sharifi AM, Ghafari M, Hosseini SJ, Shahmahmoodi Z, Moeinzadeh A, et al. In-vitro and in-vivo evaluation of angiogenic potential of a novel lithium chloride loaded silk fibroin / alginate 3D porous scaffold with antibacterial activity, for promoting diabetic wound healing. *Int J Biol Macromol*. 2024;277(Pt 4):134362.
6. Bashiri Z, Movahedin M, Pirhajati V, Asgari H, Koruji M. Ultrastructural study: in vitro and in vivo differentiation of mice spermatogonial stem cells. *Zygote*. 2024;32(1):87-95.

7. Bashiri Z, Hosseini SJ, Salem M, Koruji M. In vivo and in vitro sperm production: an overview of the challenges and advances in male fertility restoration. *Clin Exp Reprod Med.* 2024;51(3):171-80.
8. Bashiri Z, Afzali A, Koruji M, Torkashvand H, Ghorbanlou M, Sheibak N, et al. Advanced strategies for single embryo selection in assisted human reproduction: A review of clinical practice and research methods. *Clin Exp Reprod Med.* 2024.
9. Asgari F, Asgari H, Najafi M, Hajiaghalou S, Pirhajati-Mahabadi V, Mohammadi A, et al. In vitro proliferation and differentiation of mouse spermatogonial stem cells in decellularized human placenta matrix. *J Biomed Mater Res B Appl Biomater.* 2024;112(5):e35414.
10. Nikmahzar A, Koruji M, Jahanshahi M, Khadivi F, Shabani M, Dehghani S, et al. Differentiation of human primary testicular cells in the presence of SCF using the organoid culture system. *Artif Organs.* 2023;47(12):1818-30.
11. Nikmahzar A, Khadivi F, Koruji M, Jahanshahi M, Dehghan Tarazjani M, Shabani M, et al. Evaluation of Apoptosis-related Genes and Hormone Secretion Profiles Using Three Dimensional Culture System of Human Testicular Organoids. *Galen Med J.* 2023; 12:1-13.
12. Moeinzadeh A, Ashtari B, Garcia H, Koruji M, Velazquez CA, Bagher Z, et al. The Effect of Chitosan/Alginate/Graphene Oxide Nanocomposites on Proliferation of Mouse Spermatogonial Stem Cells. *J Funct Biomater.* 2023;14(12).
13. Jabari A, Gholami K, Khadivi F, Koruji M, Amidi F, Gilani MAS, et al. In vitro complete differentiation of human spermatogonial stem cells to morphologic spermatozoa using a hybrid hydrogel of agarose and laminin. *Int J Biol Macromol.* 2023; 235:123801.
14. Bashiri Z, Moghaddaszadeh A, Falak R, Khadivi F, Afzali A, Abbasi M, et al. Generation of Haploid Spermatids on Silk Fibroin-Alginate-Laminin-Based Porous 3D Scaffolds. *Macromol Biosci.* 2023;23(9):e2200574.
15. Bashiri Z, Gholipourmalekabadi M, Khadivi F, Salem M, Afzali A, Cham TC, et al. In vitro spermatogenesis in artificial testis: current knowledge and clinical implications for male infertility. *Cell Tissue Res.* 2023;394(3):393-421.
16. Jabari A, Gholami K, Khadivi F, **Koruji M**, Amidi F, Gilani MA, Mahabadi VP, Nikmahzar A, Salem M, Movassagh SA, Feizollahi N. In vitro complete differentiation of human spermatogonial stem cells to morphologic spermatozoa using a hybrid hydrogel of agarose and laminin. *International Journal of Biological Macromolecules.* 2023 30;235:123801.
17. Bashiri Z, Gholipourmalekabadi M, Falak R, Amiri I, Asgari H, Chauhan NPS, **Koruji M**. In vitro production of mouse morphological sperm in artificial testis bioengineered by 3D printing of extracellular matrix. *Int J Biol Macromol.* 2022 Sep 30; 217:824-841.
18. Shams A, Shabani R, Asgari H, Karimi M, Najafi M, Asghari-Jafarabadi M, et al. In vitro elimination of EL4 cancer cells from spermatogonia stem cells by miRNA-143- and 206-loaded folic acid-conjugated PLGA nanoparticles. *Nanomedicine (Lond).* 2022;17(8):531-45.
19. Zehri M, Movahedin M, Mowla SJ, Noruzinia M, Koruji M, Nowroozi MR, Asgari F. Genetic and Epigenetic Evaluation of Human Spermatogonial Stem Cells Isolated by MACS in Different Two and Three-Dimensional Culture Systems. *Cell J.* 2022 Aug 28;24(8):481-490.
20. Ganjibakhsh M, Mehraein F, Koruji M, Bashiri Z. The therapeutic potential of adipose tissue-derived mesenchymal stromal cells in the treatment of busulfan-induced azoospermic mice. *J Assist Reprod Genet.* 2022;39(1):153-63.
21. Afzali A, Amidi F, Koruji M, Nazari H, Gilani MAS, Sanjbad AS. Astaxanthin Relieves Busulfan-Induced Oxidative Apoptosis in Cultured Human Spermatogonial Stem Cells by Activating the Nrf-2/HO-1 pathway. *Reprod Sci.* 2022;29(2):374-94.
22. Mirmohammadi M, Eskandari K, Koruji M, Shabani R, Ahadi R, Haghparast A. Intra-Accumbal D1-But not D2-Like Dopamine Receptor Antagonism Reverses the Inhibitory Effects of Cannabidiol on Extinction and Reinstatement of Methamphetamine Seeking Behavior in Rats. *Cannabis Cannabinoid Res.* 2022
23. Shams A, Shabani R, Najafi M, Karimi M, Pirhajati V, Asghari Jafarabadi M, et al. The Role of MicroRNA 143 and MicroRNA 206 in The Regulation of Apoptosis in Mouse Leukemia Cancer Cells and Spermatogonial Cells. *Cell J.* 2021;23(5):544-51.
24. Nazmara Z, Shirinbayan P, Reza Asgari H, Ahadi R, Asgari F, Maki CB, et al. The epigenetic alterations of human sperm cells caused by heroin use disorder. *Andrologia.* 2021;53(1):e13799.
25. Mozafari R, Karimi-Haghighi S, Hooshmandi E, Ghasemi R, Koruji M, Ahadi R, et al. Hippocampal D1-but not D2-like dopamine receptors modulate the phosphorylation of ERK in food deprivation-induced reinstatement of morphine in extinguished rats. *Neuroreport.* 2021; 32(4):332-8.
26. Kouchakian MR, Koruji M, Najafi M, Moniri SF, Asgari A, Shariatpanahi M, et al. Human umbilical cord mesenchymal stem cells express cholinergic neuron markers during co-culture with amniotic membrane cells and retinoic acid induction. *Med J Islam Repub Iran.* 2021; 35:129.

27. Javanmard F, Koruji M, Moradi F, Kochakian MR, Moosavi SA, Asgari HR. Human Umbilical Cord Mesenchymal Stem Cells Differentiated into Neuron-Like Cells via Laminin and Schwann Cells. *Arch Iran Med.* 2021;24(7):548-55.
28. Bashiri Z, Amiri I, Gholipourmalekabadi M, Falak R, Asgari H, Maki CB, et al. Artificial testis: a testicular tissue extracellular matrix as a potential bio-ink for 3D printing. *Biomater Sci.* 2021;9(9):3465-84.
29. Bashiri Z, Amidi F, Amiri I, Zandieh Z, Maki CB, Mohammadi F, et al. Male Factors: the Role of Sperm in Preimplantation Embryo Quality. *Reprod Sci.* 2021;28(7):1788-811.
30. Asgari F, Khosravimelal S, Koruji M, Aliakbar Ahovan Z, Shirani A, Hashemi A, et al. Long-term preservation effects on biological properties of acellular placental sponge patches. *Mater Sci Eng C Mater Biol Appl.* 2021; 121:111814.
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32. Ziloochi Kashani M, Bagher Z, Asgari HR, Najafi M, Koruji M, Mehraein F. Differentiation of neonate mouse spermatogonial stem cells on three-dimensional agar/polyvinyl alcohol nanofiber scaffold. *Syst Biol Reprod Med.* 2020;66(3):202-15.
33. Zahiri M, Movahedin M, Mowla SJ, Noruzinia M, Koruji M, Nowroozi MR, et al. The Epigenetic Assessment of Human Spermatogenic Cells Derived from Obstructive Azoospermic Patients in Different Culture Systems. *Urol J.* 2020;18(2):214-24.
34. Vardiani M, Ghaffari Novin M, Koruji M, Nazarian H, Goossens E, Aghaei A, et al. Gelatin Electrospun Mat as a Potential Co-culture System for In Vitro Production of Sperm Cells from Embryonic Stem Cells. *ACS Biomater Sci Eng.* 2020;6(10):5823-32.
35. Rezaei-Mojaz S, Nazmara Z, Najafi M, Movahedin M, Zandieh Z, Shirinbayan P, et al. Evaluation of Enkephalin-Degrading Enzymes in Sperm from Heroin-Addicted Men. *Int J Fertil Steril.* 2020;13(4):301-6.
36. Nazmara Z, Najafi M, Movahedin M, Zandiyeh Z, Shirinbayan P, Asgari HR, et al. Correlation Between Protamine-2 and miRNA-122 in Sperm from Heroin-addicted Men: A Case-Control Study. *Urol J.* 2020;17(6):638-44.
37. Mozafari R, Jamali S, Pourhamzeh M, Koruji M, Ahadi R, Haghparast A. The blockade of D1- and D2-like dopamine receptors within the dentate gyrus attenuates food deprivation stress-induced reinstatement of morphine-extinguished conditioned place preference in rats. *Pharmacol Biochem Behav.* 2020;196:172967.
38. Khadivi F, Koruji M, Akbari M, Jabari A, Talebi A, Ashouri Movassagh S, et al. Application of platelet-rich plasma (PRP) improves self-renewal of human spermatogonial stem cells in two-dimensional and three-dimensional culture systems. *Acta Histochem.* 2020;122(8):151627.
39. Jabari A, Sadighi Gilani MA, Koruji M, Gholami K, Mohsenzadeh M, Rastegar T, et al. Three-dimensional co-culture of human spermatogonial stem cells with Sertoli cells in soft agar culture system supplemented by growth factors and Laminin. *Acta Histochem.* 2020;122(5):151572.
40. Azizi H, Koruji M, Skutella T. Comparison of PLZF Gene Expression between Pluripotent Stem Cells and Testicular Germ Cells. *Cell J.* 2020;22(1):60-5.
41. Ashtari B, Shams A, Esmaeilzadeh N, Tanbakooei S, Koruji M, Moghadam MJ, et al. Separating mouse malignant cell line (EL4) from neonate spermatogonial stem cells utilizing microfluidic device in vitro. *Stem Cell Res Ther.* 2020;11(1):191.
42. Vardiani M, Gholipourmalekabadi M, Ghaffari Novin M, Koruji M, Ghasemi Hamidabadi H, Salimi M, et al. Three-dimensional electrospun gelatin scaffold coseeded with embryonic stem cells and sertoli cells: A promising substrate for in vitro coculture system. *J Cell Biochem.* 2019;120(8):12508-18.
43. Talebi A, Sadighi Gilani MA, Koruji M, Ai J, Rezaie MJ, Navid S, et al. Colonization of Mouse Spermatogonial Cells in Modified Soft Agar Culture System Utilizing Nanofibrous Scaffold: A New Approach. *Galen Med J.* 2019;8:e1319.
44. Nazmara Z, Najafi M, Rezaei-Mojaz S, Movahedin M, Zandiyeh Z, Shirinbayan P, et al. The Effect of Heroin Addiction on Human Sperm Parameters, Histone-to-Protamine Transition, and Serum Sexual Hormones Levels. *Urol J.* 2019;16(3):289-94.
45. Ganjibakhsh M, Mehraein F, Koruji M, Aflatoonian R, Farzaneh P. Three-dimensional decellularized amnion membrane scaffold as a novel tool for cancer research; cell behavior, drug resistance and cancer stem cell content. *Mater Sci Eng C Mater Biol Appl.* 2019;100:330-40.
46. Ganjibakhsh M, Mehraein F, Koruji M, Aflatoonian R, Farzaneh P. Three-dimensional decellularized amnion membrane scaffold promotes the efficiency of male germ cells generation from human induced pluripotent stem cells. *Exp Cell Res.* 2019;384(1):111544.

47. Eslahi N, Shakeri-Zadeh A, Ashtari K, Pirhajati-Mahabadi V, Tohidi Moghadam T, Shabani R, et al. In Vitro Cytotoxicity of Folate-Silica-Gold Nanorods on Mouse Acute Lymphoblastic Leukemia and Spermatogonial Cells. *Cell J*. 2019;21(1):14-26.
48. Ashouri Movassagh S, Banitalebi Dehkordi M, Koruji M, Pourmand G, Farzaneh P, Ashouri Movassagh S, et al. In Vitro Spermatogenesis by Three-dimensional Culture of Spermatogonial Stem Cells on Decellularized Testicular Matrix. *Galen Med J*. 2019;8:e1565.
49. Shabani R, Ashjari M, Ashtari K, Izadyar F, Behnam B, Khoei S, et al. Elimination of mouse tumor cells from neonate spermatogonial cells utilizing cisplatin-entrapped folic acid-conjugated poly(lactic-co-glycolic acid) nanoparticles in vitro. *Int J Nanomedicine*. 2018;13:2943-54.
50. Qasemi-Panahi B, Movahedin M, Moghaddam G, Tajik P, Koruji M, Ashrafi-Helan J, et al. Isolation and Proliferation of Spermatogonial Cells from Ghezel Sheep. *Avicenna J Med Biotechnol*. 2018;10(2):93-7.
51. Gholami K, Pourmand G, Koruji M, Sadighilani M, Navid S, Izadyar F, et al. Efficiency of colony formation and differentiation of human spermatogenic cells in two different culture systems. *Reprod Biol*. 2018;18(4):397-403.
52. Gholami K, Pourmand G, Koruji M, Ashouri S, Abbasi M. Organ culture of seminiferous tubules using a modified soft agar culture system. *Stem Cell Res Ther*. 2018;9(1):249.
53. Yazdekhnasti H, Hosseini MA, Rajabi Z, Parvari S, Salehnia M, Koruji M, et al. Improved Isolation, Proliferation, and Differentiation Capacity of Mouse Ovarian Putative Stem Cells. *Cell Reprogram*. 2017;19(2):132-44.
54. Shams A, Eslahi N, Movahedin M, Izadyar F, Asgari H, Koruji M. Future of Spermatogonial Stem Cell Culture: Application of Nanofiber Scaffolds. *Curr Stem Cell Res Ther*. 2017;12(7):544-53.
55. Nekoonam S, Najji M, Nashtaei MS, Mortezaee K, Koruji M, Safdarian L, et al. Expression of AKT1 along with AKT2 in granulosa-lutein cells of hyperandrogenic PCOS patients. *Arch Gynecol Obstet*. 2017;295(4):1041-50.
56. Navid S, Rastegar T, Baazm M, Alizadeh R, Talebi A, Gholami K, et al. In vitro effects of melatonin on colonization of neonate mouse spermatogonial stem cells. *Syst Biol Reprod Med*. 2017;63(6):370-81.
57. Mohammadzadeh E, Amjadi FS, Movahedin M, Zandieh Z, Nazmara Z, Eslahi N, et al. In vitro development of embryos from experimentally Kerack-addicted Mice. *Int J Reprod Biomed*. 2017;15(7):413-22.
58. Makoolati Z, Movahedin M, Forouzandeh-Moghadam M, Naghdi M, Koruji M. Embryonic stem cell derived germ cells induce spermatogenesis after transplantation into the testes of an adult mouse azoospermia model. *Clin Sci (Lond)*. 2017;131(18):2381-95.
59. Lakpour MR, Koruji M, Shahverdi A, Aghajanpour S, Rajabian Naghandar M, Sadighi Gilani MA, et al. The Expression of TLR2 and TLR3 in Sertoli Cells of Azoospermic Patients. *Cell J*. 2017;19(3):375-85.
60. Lakpour MR, Aghajanpour S, Koruji M, Shahverdi A, Sadighi-Gilani MA, Sabbaghian M, et al. Isolation, Culture and Characterization of Human Sertoli Cells by Flow Cytometry: Development of Procedure. *J Reprod Infertil*. 2017;18(2):213-7.
61. Aliakbari F, Sedighi Gilani MA, Yazdekhnasti H, Koruji M, Asgari HR, Baazm M, et al. Effects of antioxidants, catalase and alpha-tocopherol on cell viability and oxidative stress variables in frozen-thawed mice spermatogonial stem cells. *Artif Cells Nanomed Biotechnol*. 2017;45(1):63-8.
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65. Aliakbari F, Gilani MA, Amidi F, Baazm M, Koruji M, Izadyar F, et al. Improving the Efficacy of Cryopreservation of Spermatogonia Stem Cells by Antioxidant Supplements. *Cell Reprogram*. 2016;18(2):87-95.
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81. Koruji M, Shahverdi A, Janan A, Piryaee 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(9):957-67.
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84. 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.
85. Sadri-Ardekani H, Mizrak SC, van Daalen SK, Korver CM, Roepers-Gajadien HL, Koruji M, et al. Propagation of human spermatogonial stem cells in vitro. *JAMA.* 2009;302(19):2127-34.
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89. **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:

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PRESENTATION:

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60. Tajadini S, Behnam B, Bakhtiyari M, **Koruji M**. 4th International and 19th National Congress of Iranian Society for Reproductive Medicine. Tehran Iran, 2013.
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91. **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.
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93. **Koruji SM**, Movahedin M, Mowla SJ, Gourabi Jabbari A. 7th Iranian Congress of Anatomical Science. Kashan, Iran, 2006.
94. **Koruji SM**, Movahedin M, Valojerdi MR. 6th International Meeting of Anatomical Sciences Society. Shiraz, Iran, 2004.
95. **Koruji SM**, Movahedin M, Valojerdi MR. 9th Annual Scientific Meeting of Middle East Fertility Society. Cairo, Egypt, 2002.
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97. **Koruji SM**, Movahedin M, Valojerdi MR. The 9th Congress of Fertility and Infertility. Yazd, Iran, 2001.
98. **Koruji SM**, Movahedin M, Valojerdi MR. The 5th International Congress of Iranian Anatomical Sciences. Tehran, Iran, 2001.

Past and Present Positions:

1. Head of department of the Anatomy (2021-present)
2. Deputy Researcher of Stem Cells and Regenerative Medicine Research Center (2021-present)