



CV (Curriculum Vitae)

Name: Maryam

Family: Khanehzad

Date of birth: September 21, 1986

Title: Assistant Professor of Anatomical Sciences

Appointment:

Institute:

School: School of Medicine, Isfahan University of Medical Sciences

Department: Department of Anatomical Sciences,

Research Center:

work address Hezar Jerib St., Isfahan University of Medical Sciences and Health Services, School of Medicine

Phone:03137929104

Email:M.khanehzad@med.mui.ac.ir

Education

(Most recent Date ,Degree/
Course, Department / University,
Dissertation title)

- **Philosophiae Doctor (PhD) in Anatomy (2015-2020) (GPA: 18/71 out of 20)**
School of Medicine, Tehran University of Medical Sciences, Tehran, Iran
PhD Thesis: The study of excitatory and inhibitory effects of microRNA-30 in the self-renewal and differentiation process of neonatal mouse spermatogonial stem cells
Supervisors: Dr. Farid Abolhassani (Associate Professor in Department of anatomy, School of Medicine, Tehran University of Medical Sciences, Tehran, Iran) and Dr. Azim Hedayatpour, (Associate Professor in Department of anatomy, School of Medicine, Tehran University of Medical Sciences, Tehran, Iran)
- **Master of Science (MSc) in Anatomy (2011-2014) (GPA: 19/23 out of 20)**
School of Medicine, Tehran University of Medical Sciences, Tehran, Iran
MSc Thesis: The study of undifferentiated and differentiated gene expression in neonatal mouse spermatogonia stem cells followed by coculture with Sertoli cells
Supervisors: Dr. Farid Abolhassani (Associate Professor in Department of anatomy, School of Medicine, Tehran University of Medical Sciences, Tehran, Iran)
- **Bachelor of Science (BSc) in Midwifery (2004-2008)(GPA: 17/57 out of 20)**
Shahid Beheshti University of Medical Sciences, Tehran, Iran

Relevant Work Experience

(Date, Title, University / Organization, Description)

- **Teaching general anatomy (20 units)** in School of Nursing Midwifery and the school of Allied medical sciences, **Tehran University of Medical Sciences** and **Aja University of Medical Sciences**.
- **Teaching of abdominal and pelvic anatomy** to international students, **second international summer school of anatomy, international campus of Tehran University of Medical Sciences, Tehran, Iran. 2015**
- **Teaching anatomy and histology** to High school students in **International Brain Bee**.
- **Health teacher** in Ministry of Education for **5 months- Natanz – Isfahan. 2009- 2010**.
- **Internship period** in Khatam Al-Anbia Hospital (Medical Council Code: 24657-m) - Natanz – Isfahan -2008-2010
- **Teaching general anatomy & embryology** in School of medicine, **Islamic Azad University of Qom**

Professional Memberships & Qualification

(Date, Title, association)

Iranian Society of Anatomical Sciences

**Extra Curricular Activities/
Interest**
(personal url)

Personal Interests

- Reading Book
- volleyball
- Movies
- Painting/ Poem

Computer Knowledge

- Windows-based programs
- Internet tools, PubMed and Blast search
- MS-Office package (PowerPoint, Word, Excel)
- Statistical programs (GraphPad Prism)
- Image analysis programs (ImageJ)

Workshops

- Executive Committee and Participant In Workshop of Basal Ganglia , Tehran University of Medical Sciences, Tehran, Iran, 2015
- Participant In The Workshop How To Write An Article? Tehran University of Medical Sciences, Tehran, Iran, 2012.
- Executive Committee and Participant in Seminar of Cerebral Ischemia, Tehran University of Medical Sciences, Tehran, Iran, 2016.
- Participant in The First National Seminar Team-Based Learning In Medical Science, Tehran University of Medical Sciences, Tehran, Iran, 2013.
- Participant in Workshop of Presentation Skills, Tehran University of Medical Sciences, Tehran, Iran, 2014.
- Participant in Workshop of Teaching Methods, Tehran University of Medical Sciences, Tehran, Iran, 2016.
- Participant in Workshop of Biosafety, Tehran University of Medical Sciences, Tehran, Iran, 2016.
- Executive Committee and Participant in the First Educational Festival of Anatomical Sciences, Tehran University of Medical Sciences, Tehran, Iran, 2016.
- Executive Committee and Participant in The First Festival of The Master, Tehran University of Medical Sciences, Tehran, Iran, 2019

Areas of Expertise

- Cell Culture **Skilled**
- MTT Technique **Skilled**
- Immunocytochemistry and Immunohistochemistry Techniques **Skilled**
- Transfection Technique **Skilled**
- Real Time PCR Technique **Skilled**
- Spermatogonial Stem Cells Transplantation Technique in Mice **Skilled**
- Stem Cell Freezing Technique **Skilled**
- General and Specific Staining **Skilled**
- Statistical Analysis with Prism Software **Skilled**
- Processes of Fixing and Dissecting the Cadaver **Skilled**

	<ul style="list-style-type: none"> Animal Lab Handling Familiar
<p>Research</p> <p>Experience (Date, Title, University / Organization, Description)</p>	<p>Projects</p> <ul style="list-style-type: none"> <i>The study of undifferentiated and differentiated gene expression in neonatal mouse spermatogonia stem cells followed by coculture with Sertoli cells, Tehran University of Medical Sciences, Tehran, Iran, (Finished).</i> <i>The study of excitatory and inhibitory effects of microRNA-30 in the self-renewal and differentiation process of neonatal mouse spermatogonial stem cells, Tehran University of Medical Sciences, Tehran, Iran, (Finished).</i> <i>Effect of miR-30a-5p on Apoptosis, Colonization, and Oxidative Stress Variables in Frozen-Thawed Neonatal Mice Spermatogonial Stem Cells, Tehran University of Medical Sciences, Tehran, Iran, (Finished).</i> <i>Antioxidant effect of melatonin on colonization, proliferation and apoptosis gene expression of mouse spermatogonial stem cells following freezing – thawing, T University of Medical Sciences, Tehran, Iran, (Finished).(Advisor)</i> <i>Assesment the cryoprotective effect of pentoxifylline(PTX) on Nrf2/ARE pathway in frozen-thawed spermatogonial stem cells (SSCs), Tehran University of Medical Sciences, Tehran, Iran (Finished).(Advisor)</i> <i>Investigating the differentiation of bone marrow mesenchymal stem cells into male germ cells following simultaneous transplantation with the medium obtained from the culture of Sertoli cells in the mouse model of busulfan-induced azoospermia. Tehran University of Medical Sciences, Tehran, Iran (Finished).</i> <i>Evaluation of the effect of niosomal nelarabine on regulation of MIR7 function and apoptosis and prevention of Y79 class retinoblastoma cell proliferation through AKT mechanism. Isfahan University of Medical Sciences, isfahan, Iran (Finished).</i> <i>Evaluation of the effect of liposomal AZD5363 on apoptosis and prevention of Y79 class retinoblastoma cell proliferation through PTEN/ AKT / FOXO1 mechanism. Isfahan University of Medical Sciences, isfahan, Iran (Finished).</i> <i>Evaluation the effect of a freezing medium containing Astaxanthin on Undifferentiated or pre-meiotic and Differentiated or post-meiotic markers in Spermatogonial Stem cells (SSCs) after Transplantation in Azoospermia Mouse Model Due to of Spermatic Cord Torsion. Tehran University of Medical Sciences, Tehran, Iran.(Advisor)</i> <p>BOOKS</p> <ul style="list-style-type: none"> T rastegar, GH hasanzadeh, M khanehzad, et al. Basic and advanced histological and molecular techiques.2023 F Amidi, M Khanehzad, et al. Self-Assessment and Review of Anatomy. 2021. (Printing). S.M.H Noori Moogahi, A.S Mostafavinia, M Khanehzad Basis of cell culture and application of stem cells in biothecnology. 2020 F Amidi, M Abbasi, P Pasbakhsh, M Khanehzad, ea al. Snells Clinical Anatomy By Regions (Trunk), 10th ed. 2019.

- F Amidi, S Madadi, F Tahmasebi, **M Khanehzad**, et al. Snells Clinical Anatomy By Regions (limbs), 10th ed. 2019.
- Gh Hassanzadeh, T Rastegar, F Malek, N Takzaree, **M Khanehzad**, et al, Basics of Histology. 2018.
- S.M.H Noori Moogahi, S.M kameli, **M Khanehzad**. Essentials of Histology, Histophysiology and Clinical Histology. 2013.

ARTICLES

1. Sh Kazemzadeh , Sh Mohammadpour , S Madadi , A Babakhani , Shabani , **M Khanehzad (correspondence)**. Melatonin in cryopreservation media improves transplantation efficiency of frozen-thawed spermatogonial stem cells into testes of azoospermic mice. stem cell research and therapy (IF: 8). 2022 Jul 26;13(1):346.
2. Gh Sadeghiani , M Khanehzad , M Ali Sadighi Gilani , F Amidi , M Malekzadeh , Ta Rastegar. Evaluation of Nrf2/ARE Signaling Pathway in the Presence of Pentoxifylline as a Cryoprotectant in Mouse Spermatogonial Stem Cells. Biopreservation and Biobanking (IF: 2). 2022 Aug 24
3. T Nazeri, A Hedayatpour, Sh Kazemzadeh, M Safari, S Safi, **M Khanehzad (correspondence)** Antioxidant effect of melatonin on proliferation, Apoptosis and Oxidative Stress Variables in Frozen-Thawed Neonatal Mice Spermatogonial Stem cells. Biopreservation and Biobanking (IF: 2). 2022 Aug;20(4):374-383
4. Maryam Khanehzad, S M Nourashrafeddin, F Abolhassani, Sh Kazemzadeh, S Madadi, E Shiri, PKhanlari, Z Khosravizadeh & A Hedayatpour. MicroRNA-30a-5p promotes differentiation in neonatal mouse spermatogonial stem cells (SSCs). Reproductive Biology and Endocrinology (IF: 5.2). 2021
5. P Khanlari, M Khanehzad, Z Khosravizadeh, A Sobhani, Sh Barakzai, Sh Kazemzadeh, and A Hedayatpour. Effect of miR-30a-5p on Apoptosis, Colonization and Oxidative Stress Variables in Frozen-Thawed Neonatal Mice Spermatogonial Stem Cells. Biopreservation and Biobanking (IF: 2). 2021.
6. M Khanehzad , R Abbaszadeh , M Holakuyee , M H Modarressi , S M Nourashrafeddin. FSH regulates RA signaling to commit spermatogonia into differentiation pathway and meiosis. Reproductive Biology and Endocrinology (IF: 5.2). 2021.
7. Sh Kazemzadeh , T Rastegar , B Minaei Zangi , M Malekzadeh , M Khanehzad , P Khanlari , S Madadi , A Bashghareh , A Hedayatpour .Effect of a Freezing Medium Containing Melatonin on Markers of Pre-meiotic and Post-meiotic Spermatogonial Stem Cells (SSCs) After Transplantation in an Azoospermia Mouse Model Due to Testicular Torsion. Reproductive Sciences (IF: 3). 2021.
8. M Khanehzad, F Abolhassani, Gh Hassanzadeh, S M Nourashrafeddin, A Hedayatpour. Determination of the Excitatory Effects of MicroRNA-30 in

	<p>the Self-Renewal and Differentiation Process of Neonatal Mouse Spermatogonial Stem Cells. Glen Medical Sciences. 2020.</p> <ol style="list-style-type: none"> 9. E Shiri, F Abolhassani, Z Khosravizadeh, A Najafi, M Khanezad, M Vazirian, P Fallahi, Z Rezaeian, and A Hedayatpour. Aqueous Origanum vulgare Extract Improves the Quality of Cryopreserved Human Spermatozoa Through Its Antioxidant Effect. Biopreservation and Biobanking (IF: 2). 2020. 10. Z Khosravizadeh , Gh Hassanzadeh , J Tavakkoly Bazzaz , F Alizadeh 3, M Totonchi 4, E Salehi , K Khodamoradi , M Khanehzad , S R Hosseini , F Abolhassani. The effect of cryopreservation on DNA methylation patterns of the chromosome 15q11–q13 region in human spermatozoa. Cell and Tissue Banking (IF: 1.1). 2020. 11. S Madadi , P Pasbakhsh , F Tahmasebi , K Mortezaee , M Khanehzad , F Beigi Boroujeni, G Noorzehi , I Ragerdi Kashani. Astrocyte ablation induced by La-aminoadipate (L-AAA) potentiates remyelination in a cuprizone demyelinating mouse model. Metabolic Brain Disease (IF: 2.7). 2019. 12. M Sanaei , F Kavooosi , M Mohammadi , M Khanezad. Effect o5-aza-2'-deoxycytidine on p16INK4a, p14ARF, p15INK4b Genes Expression, Cell Viability, and Apoptosis in PLC/PRF5 and MIA Paca-2 Cell Lines. Iranian Journal of Pediatric Hematology and Oncology. 2019. 13. S Madadi , F Tahmasebi , M Khanehzad, Sh Kazemzadeh, Gh Hassanzadeh. Estimation of stature from facial indices among Iranian medical students. Journal of Contemporary Medical Sciences. 2019. 14. M Shayan, K Mehrannia, Ta Rastegar, M Khanehzad, T Ghantabpour, and Gh Hassanzadeh. Teratogenic effect of the aqueous extract of the Foeniculum vulgare (fennel) on fetal development in mice. Journal of Contemporary Medical Sciences .2019. 15. S Madadi , M Khanehzad, F Tahmasebi K Gordon, Gh Hassanzadeh. Correlation of Horizontal Cephalic Index and Cranial Parameters in Iranian Medical Students. Acta Medica Iranica. 2018. 16. M Khanehzad, S Madadi , F Tahmasebi, Sh Kazemzadeh, Gh Hassanzadeh. The Correlation between Occlusal Vertical Dimension, length of the thumb and facial landmarks measurements: An Anthropometric Study in a sample of Iranian students. Global Journal of Human Anatomy and Physiology Research. 2018. 17. F Aliakbari , M.A Sedighi Gilani , H Yazdekhesti , M Koruji , H.R Asgari , M Baazm , F Izadyar , E Kharrazi Nejad , M Khanezad , M Abbasi. Effects of antioxidants, catalase and α-tocopherol on cell viability and oxidative stress variables in frozenthawed mice spermatogonial stem cells. Artificial Cells, Nanomedicine, and Biotechnolo An International Journal (IF:3.3).2016.
<p>Grants & Awards</p> <p>(Date, Name, Significant info, Amount)</p>	<ul style="list-style-type: none"> ▪ 1st Rank in National University PhD Entrance Exam among Biomedical Students, Iran, 2014. ▪ Top speaker by TED in the second meeting of the research day in School of Medicine, Tehran University of Medical Sciences, Tehran, Iran

	<ul style="list-style-type: none"> ▪ 1st Rank in the field of film and animation in the first anatomy educational festival in School of Medicine, Tehran University of Medical Sciences, Tehran, Iran
Research Interests (Research area)	Stem cell, biology, male reproductive
Presentations & Poster Sessions (Bibliographic format)	<ul style="list-style-type: none"> ▪ M. Khanehzad., <i>Fate Determination of Spermatogonial Stem Cells Followed By Coculture with Sertoli Cells</i>. 12st Iranian Congress on Anatomical Sciences, Shahid Beheshti University of Medical Sciences, Tehran, Iran, 2016, (Oral Presentation). ▪ M. Khanehzad, <i>The study of undifferentiated and differentiated gene expression in neonatal mouse spermatogonia stem cells followed by coculture with Sertoli cells</i>, XXIV International Symposium on Morphological Sciences which will be held in Istanbul University, Istanbul, Turkey. 2015, (Poster Presentation). ▪ M. Khanehzad. <i>Excitatory and inhibitory effects of Nitric oxide on weight, size, and Histological changes of rat heart</i>, 11st Iranian Congress on Anatomical Sciences, Ahvaz University of Medical Sciences, Ahvaz, Iran, 2014, (Poster Presentation). ▪ M. Khanehzad <i>Excitatory and inhibitory effects of nitric oxide on development the cardiomyocyte of rat embryos</i>. 15st Royan International Congress on Reproductive Biomedicine. 2014, (Poster Presentation). ▪ M. Khanehzad <i>effects of Benzyl Ester and Propylene glycol administration on quantitative indices of rat seminiferous tubules</i>. 14st Royan International Congress on Reproductive Biomedicine. 2013, (Poster Presentation). ▪ M. Khanehzad. <i>The effects of corn oil on colonic mucosal thickness in rabbit</i>. 2nd National Congress on Medicinal Plants, tehran, Iran.2013, (Poster Presentation).
Patents (Date, Item, Number)	
Teaching Experience	Embryology, Histology, Anatomy and Advanced molecular techniques

Teaching Interests: Embryology, Histology and Anatomy

Email address:

Contact settings: