

**Curriculum vitae:**

First name: Mehdi

Last name: Mehdizadeh

**Address:**

Full professor in Anatomical Sciences, Reproductive Sciences and Technology Research Center, Cellular and Molecular Research Center, Departments of Anatomy, Faculty of Medicine, Iran University of Medical Sciences (IUMS), Hemmat Expressway, Tehran, Iran.

Tel/Fax: 0098-21-86704543

**Email:**

Mehdizadeh.m@iums.ac.ir

mmehdizadeh@hotmail.com

**Google Scholar Profile:**

<https://scholar.google.com/citations?hl=en&user=K7l6FkEAAAAJ>



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**University Education:**

Sabbatical Leave, Manitoba University, Canada (May - December 2012);

Fellowship in Transgenic Animals, German Research Center for Biotechnology (GBF)  
(April - October 2004);

Ph.D. in Anatomical Sciences, Faculty of Medicine, Tehran University of Medical Sciences  
(TUMS), Tehran, Iran (1991 - 1995), GPA: 18.3/20;

M.Sc. in Anatomical Sciences, Faculty of Medicine, TUMS, Tehran, Iran (1987 - 1990),  
GPA: 18.7/20;

B.Sc. in Physiotherapy, Faculty of Rehabilitation, Iran University of Medical Sciences  
(IUMS), Tehran, Iran (1975 - 1979), GPA: 18.80/20.

### **Teaching experiences:**

I. **Gross Anatomy** (Macroscopic Anatomy, Head & Neck, Trunk & Pelvis, Upper & Lower Limbs) for medical, rehabilitation, nursing, and postgraduate students in Anatomy, Parasitology, Physiology, and Biophysics at Iran University of Medical Sciences (IUMS) (1995 - Present).

II. **Embryology** for medical and midwifery students, as well as postgraduate students in Anatomical Sciences (M.Sc. and Ph.D.) at IUMS (2001 - Present).

III. **Genetic and Molecular Biology** for postgraduate students in Anatomy, Reproductive Biology, and Medical Nanotechnology at IUMS (2004 - Present).

### **Administrative Roles:**

- Head of Reproductive Sciences and Technology Research Center. (2023 - present)
- Head of the Department of Anatomical Sciences (2019 - 2021).
- Head of Core Facilities, IUMS (2017 - 2019).
- Coordinator for postgraduate students at the College of Advanced Technology in Medicine (2013 - Present).
- Scientific Secretary for the 4th Addiction Seminar, IUMS, Tehran, Iran (21 July 2010).
- Head of the Scientific Committee for the 5th Asia Pacific International Congress (APICA), IUMS, Tehran, Iran (16-19 May 2008).
- Supervisor for MSc and PhD students' theses in the Department of Anatomy, Faculty of Medicine, IUMS, Tehran, Iran (1999 - Present).

### **Committee Memberships:**

- Medical Accreditation Committee, Ministry of Health (2019 - Present).
- Board of Anatomical Sciences (2016 - Present).
- Cellular and Molecular Research Center, IUMS, Tehran, Iran (2008 - Present).
- Research Committee, Faculty of Medicine, IUMS, Tehran, Iran (2004 - 2006).

- Education Committee, Faculty of Medicine, IUMS, Tehran, Iran (2000 - 2003).
- Scientific Board for the Basal Ganglia Conference, IUMS, Tehran, Iran (26-27 March 2005).
- Scientific Board for the "Seminar of Anatomical and Clinical Aspects of the Cerebral Cortex," IUMS, Tehran, Iran (26-27 Feb 2003).
- Anatomy Department, IUMS, Tehran, Iran (1995 - Present).
- Scientific Committee for the 2nd-9th Iranian Congress of Anatomical Sciences (1994 - 2014).

**Professional membership (Local and International):**

- Editorial Board of Avicenna journal of Neuro Psycho Physiology. (2018- present)
- Editorial Board of Basic and Clinical Neurosciences Journal, BCN. (2008- present)
- Editorial Board of Iranian Anatomical Sciences Journal. (1993- present)
- Member and secretary of Iranian Association of Anatomical Sciences (ISAS). (1993- 2023)
- Member of Iranian Association of Medical Education. (2004- present)
- Member of Iranian Physical Therapy Association. (1981- present)

**Research Interests & Experiences:**

- Neuroscience
- Neurodegenerative Disease
- Ischemia
- Apoptosis Autophagy
- Addiction
- Nerve Repair
- Gene Manipulation
- Development
- Reproductive Biology

**Presentation at meeting (national and international):**

**Local:**

- Iranian Congress of Biology of Addiction, Tehran, Iran, (2007-2019)
- National Congress of Ecosystem, Job and Cancer, Cancer Research Center, Tehran, Iran
- International Congress on Neurology and Clinical Electrophysiology, Tehran, Iran
- Royan Congress

- Physiology and Pharmacology Congress.

**International:**

- MipTec Congress, Basel, Switzerland
- Manitoba Neuroscience Network, 3<sup>rd</sup> Annual Meeting, Winnipeg, Canada (July 2012).
- 4<sup>th</sup> Edition of the European Neurological conference on Clinical Practice, Lisbon, Portugal (28-30 Jan. 2011)
- European Neurological Conference on Clinical Practice (28-30 Jan. 2011).
- 6<sup>th</sup> International Congress of Stroke, Vienna, Austria (24-27 Sept. 2008).
- 11<sup>th</sup> International Congress of Toxicology Montreal, Canada (15-19 July 2007).
- 10<sup>th</sup> International Conference on Alzheimer Disease and Related Disorders (ICAD) Madrid, Spain (15-20 July 2006).
- 18<sup>th</sup> World Congress of Neurology, Convention & Exhibition Centre, Sydney, Australia (5-11 Nov. 2005).
- 41<sup>st</sup> Congress of the European Societies of Toxicology, Florence, Italy (28 Sept-1 Oct 2003) poster presentation.

**Books:**

- Translation of Gray's Anatomy for students
- General Anatomy with Tests
- Essential Anatomy of Extremities
- Translation of Snell's Clinical Anatomy by Regions
- Atlas of Anatomy
- General Anatomy
- Medical Anatomy of trunk
- Review of Anatomy
- Osteology with Joints
- Essential Anatomy
- A question pool of basic and clinical anatomy
- Basic Sciences Examination Review
- Surface Anatomy
- Translational of Last's Anatomy
- Translational of Embryology of Longman
- Use of Transgenes in Reproductive Science
- Evaluation of Morphology from Oocyte to Blastocyst
- Application of Transgenes in Reproductive Sciences
- Anatomy Exam Questions Based On The "General Anatomy" Textbook

### **Workshop:**

- The Application of Artificial Intelligence in Fertility Technologies (21 Feb, 2024).
- Real-Time, ELISA, And MTT Data Analysis Using Prism Software (19 Feb, 2024).
- Innovative in Anatomical Education Tehran, Iran, (7-8 July 2010).
- Neuroscience Improvement-Oriented Social Work and Counseling. Tehran, Iran, (11-13 June 2006).
- Micro Satellite Analysis & SCCP Based Mutation Screening Tehran, Iran, (4-5 Oct 2005).
- 13<sup>th</sup> Workshop of SPSS Tehran- Iran, (30Nov– 1Dec 2005).
- First Joint Workshop on Laser Micro Dissection Tehran, Iran, (25-26 June 2005).
- Rat Spinal Cord Repair. Tehran, Iran, (30-31August 2005).
- 2<sup>nd</sup> Workshop on Innovative Mouse Models Leiden, Netherlands (17-18 June 2004).

### **Papers:**

1. Varma, R. S., Ajdary, M., Kashi, A. M., Derakhshan, R., Chaichian, S., Tahermanesh, K., & et al. (2024). NLRP3 concentration, oxidants, and antioxidants in plasma of endometriosis patients undergoing treatment with dienogest. *Reproductive Sciences (Thousand Oaks, Calif)*, 53(3), 102744.
2. Torkashvand, H., Shabani, R., Amiri, I., Darakhshan, R., Maleki, B., Doostabadi, M. R., & et al. (2024). Exploring the potential of in vitro maturation (IVM) of oocytes: indications, applications, and treatment protocols. *Avicenna Journal of Medical Biotechnology*, 16(3), 156-164.
3. Mehdizadeh, M., Bakhtiari, M., Mirsanei, J. S., Nikmard, F., Barati, M., Amjadi, F., & et al. (2024). Corrigendum to "Effects of Au@Ag core-shell nanostructure with alginate coating on male reproductive system in mice" [*Toxicol. Rep.* 10 (2023) 104-116]. *Zygote (Cambridge, England)*, 13, 101722.
4. Kazorgah, F. M., Govahi, A., Dadseresht, A., Kenari, F. N. P., Ajdary, M., Mehdizadeh, R., & et al. (2024). The effect of temperature and storage time on DNA integrity after freeze-drying sperm from individuals with normozoospermia. *Journal of Chemotherapy (Florence, Italy)*, 51(1), 42-47.
5. Hasanabadi, H. E., Govahi, A., Chaichian, S., Mehdizadeh, M., Haghighi, L., & Ajdary, M. (2024). LncRNAs in the regulation of endometrial receptivity for embryo implantation. *JBRA Assisted Reproduction*, 28(3), 503-510.
6. Haghighi, L., Ajdary, M., Govahi, A., Chaichian, S., Kashi, A. M., Derakhshan, R., & et al. (2024). Angiogenic lipid-based drug delivery system (PhytoSolve) for treatment of a thin endometrium in an animal model. *Tissue & Cell*, 90, 102481.
7. Torkashvand, H., Shabani, R., Pilehvari, S., & et al. (2024). Separation of sperm based on rheotaxis mechanism using a microfluidic device. Preprint, 15 May 2024.

8. Govahi, A., Eghbali, S., Amjadi, F., Nazari, M., Mohammadzadeh Kazorgah, F., Mehdizadeh, M., & et al. (2024). Cannabidiol impairs sperm quality and function in adult mice. *Middle East Fertility Society Journal*, 29, 26.
9. Govahi, A., Eghbali, S., Ghiasi, N. E., Zandieh, Z., Ajdary, M., Mehdizadeh, R., & et al. (2024). Changes in the transcriptomic profile of cumulus cells under the influence of cumulus-oocyte complex pre-incubation. *Scientific Reports*, 14(1), 17183.
10. Ghorbanlou, M., Moradi, F., Shabani, R., & Mehdizadeh, M. (2024). Upregulation of apoptotic genes and downregulation of target genes of the Sonic Hedgehog signaling pathway in DAOY medulloblastoma cell line treated with arsenic trioxide. *Cancer Research*, 36(6), 506-519.
11. Chaichian, S., Khodabandehloo, F., Haghighi, L., Govahi, A., Mehdizadeh, M., Ajdary, M. (2024). Toxicological impact of bisphenol A on females' reproductive system: Review based on experimental and epidemiological studies. *Toxicology and Industrial Health*, 31(7), 1781-1799.
12. Chaichian, S., Firoozabadi, Z. D., Rokhgireh, S., Tahermanesh, K., Kashi, A. M., Govahi, A., & et al. (2024). CGRP neuropeptide levels in patients with endometriosis-related pain treated with dienogest: A comparative study. *BMC Women's Health*, 24(1), 257.
13. Eslami, E., Ghiyamihoor, F., Sadr, M., Ajdary, M., Hakimpour, S., Mehdizadeh, R., & Mehdizadeh, M. (2024). Intranasal delivery of human Wharton's jelly-derived mesenchymal stem cells alleviates A $\beta$ -induced Alzheimer's symptoms in rat models by regulating neurotrophic and apoptotic factors. *Neuroscience and Behavioral Physiology*, 54, 374–387.
14. Mousavi, A. S., Amiri, S., Mehdizadeh, M., & et al. (2024). Development of a PCR-based method to identify fetal sex during IVF cycles. *Zygote*, 1-8.
15. Tahermanesh, K., Hakimpour, S., Govahi, A., Rokhgireh, S., Mehdizadeh, M., Minaeian, S., & et al. (2023). Evaluation of expression of biomarkers of PLAGL1 (ZAC1), microRNA, and their non-coding RNAs in patients with endometriosis. *Basic and Clinical Neuroscience*, 52(4), 102568.
16. Seidkhani, E., Moradi, F., Rustamzadeh, A., Simorgh, S., Shirvalilou, S., Mehdizadeh, M., & et al. (2023). Intranasal delivery of sunitinib: A new therapeutic approach for targeting angiogenesis of glioblastoma. *Toxicology and Applied Pharmacology*, 481, 116754.
17. Salehi Novin, M., Mehdizadeh, A., Artimani, T., Bakhtiari, M., Mehdizadeh, M., Aflatoonian, R., & et al. (2023). MACS-DGC sperm preparation method resulted in high-quality sperm, top-quality embryo, and higher blastocyst rate in male factor infertile couples with high DNA fragmented sperm. *Human Fertility (Cambridge, England)*, 26(6), 1408-1416.
18. Mirsanei, J. S., Nazari, M., Shabani, R., Govahi, A., Eghbali, S., Ajdary, M., & et al. (2023). Does gold-silver core-shell nanostructure with alginate coating induce apoptosis in human lymphoblastic tumoral (Jurkat) cell line? *Reports of Biochemistry & Molecular Biology*, 12(2), 233-240.
19. Mirsanei, J. S., Gholipour, H., Zandieh, Z., Jahromi, M. G., Masroor, M. J., Mehdizadeh, M., & et al. (2023). Transition nuclear protein 1 as a novel biomarker in patients with fertilization failure. *Clinical and Experimental Reproductive Medicine*, 50(3), 185-191.
20. Hakimpour, S., Govahi, A., Eghbali, S., Shabani, R., Mehdizadeh, R., Ajdary, M., & et al. (2023). The effect of vitamin D3 supplemented with PhytoSolve on genes involved in

- implantation in an NMRI mice model of polycystic ovary syndrome: An experimental study. *JBRA Assisted Reproduction*, 27(4), 694-701.
21. Haghghi, M., & Mehdizadeh, M. (2023). Effects of myo-inositol plus folic acid on ovarian morphology and oocyte quality in a PCOS mouse model. *Journal of Reproductive Medicine*, 31(2), 111-122.
  22. Govahi, A., Nasr-Esfahani, M. H., Amjadi, F., Mahdevar, M., Mehdizadeh, R., & Mehdizadeh, M. (2023). Cutting-edge techniques provide insights regarding repeated implantation failure patients. *Reproductive Biomedicine Online*, 46(4), 687-696.
  23. Gholipour, H., Amjadi, F. S., Zandieh, Z., Mehdizadeh, M., Ajdary, M., Delbandi, A. A., & et al. (2023). Investigation of the effect of seminal plasma exosomes from normal and oligoasthenoteratospermic males in the implantation process. *Reports of Biochemistry & Molecular Biology*, 12(2), 294-305.
  24. Amjadi, F., Zandieh, Z., Najafi, M., Artimani, T., Mohammadi, F., Mehdizadeh, R., & et al. (2023). Correction: Autophagic molecular alterations in the mouse cerebellum experimental autoimmune encephalomyelitis model following treatment with cannabidiol and fluoxetine. *Zygote (Cambridge, England)*, 60(4), 1810.
  25. Zakeri, M. A., Ghaedi-Heidari, F., Khaloobagheri, E., Hossini Rafsanjanipoor, S. M., Ganjeh, H., Pakdaman, H., & et al. (2022). The relationship between nurse's professional quality of life, mindfulness, and hardiness: A cross-sectional study during the COVID-19 outbreak. *Frontiers in Psychology*, 13, 866038.
  26. Tabatabaie, M., Amiri, S., Golestan Jahromi, M., Sene, A. A., Zandieh, Z., Mehdizadeh, M., & et al. (2022). The effect of Myo-Inositol supplement on molecular regulation of folliculogenesis, steroidogenesis, and assisted reproductive technique outcomes in patients with polycystic ovarian syndrome. *Molecular Biology Reports*, 49(2), 875-884.
  27. Mirsanei, J. S., Sheibak, N., Zandieh, Z., Mehdizadeh, M., Aflatoonian, R., Tabatabaei, M., & et al. (2022). Microfluidic chips as a method for sperm selection improve fertilization rate in couples with fertilization failure. *Archives of Gynecology and Obstetrics*, 306(3), 901-910.
  28. Marzban, H., Shabani, R., Moradi, F., Ajdary, M., Mehdizadeh, M., Amiri, S., & et al. (2022). Evaluation of polyglycolic acid as an animal-free biomaterial for three-dimensional culture of human endometrial cells. *Molecular Neurobiology*, 49(4), 259-269.
  29. Kazemi, M., Mehdizadeh, M., Hasanzadeh, A., Karimi Babaahmadi, M., Abedi, A., Keyhanvar, P., & et al. (2022). Accompaniment of time-lapse parameters and cumulus cell RNA-sequencing in embryo evaluation. *IET Nanobiotechnology*, 29(2), 395-409.
  30. Govahi, A., Amjadi, F., Nasr-Esfahani, M. H., Raoufi, E., & Mehdizadeh, M. (2022). Correction to: Accompaniment of time-lapse parameters and cumulus cell RNA-sequencing in embryo evaluation. *Basic and Clinical Neuroscience*, 29(2), 410.
  31. Ghorbani, Z., Abdollahifar, M. A., Vakili, K., Moghaddam, M. H., Mehdizadeh, M., Marzban, H., & et al. (2022). Melittin administration ameliorates motor function, prevents apoptotic cell death, and protects Purkinje neurons in the rat model of cerebellar ataxia induced by 3-acetylpyridine. *Anatomy & Cell Biology*, 205, 57-66.
  32. Daneshafrooz, N., Joghataei, M. T., Mehdizadeh, M., Alavi, A., Barati, M., Panahi, B., & et al. (2022). Identification of let-7f and miR-338 as plasma-based biomarkers for sporadic

- amyotrophic lateral sclerosis using meta-analysis and empirical validation. *Scientific Reports*, 12(1), 1373.
33. Amjadi, F., Zandieh, Z., Mehdizadeh, M., Ajdary, M., Aghamajidi, A., Raoufi, E., & et al. (2022). Molecular signature of immunological mechanism behind impaired endometrial receptivity in polycystic ovarian syndrome. *Archives of Endocrinology and Metabolism*, 66(3), 303-11.
  34. Ghorbanlou, M., Moradi, F., & Mehdizadeh, M. (2022). Frequency, shape, and estimated volume of intracranial physiologic calcification in different age groups investigated by brain computed tomography scan: A retrospective study. *Anatomy & Cell Biology*, 55(1), 63-71.
  35. Gorgich, E. A., Kasbiyan, H., Shabani, R., Mehdizadeh, M., Hajiahmadi, F., Ajdary, M., Barati, M., Moradi, F., & Ahmadvand, D. (2022). Smart chlorotoxin-functionalized liposomes for sunitinib targeted delivery into glioblastoma cells. *Journal of Drug Delivery Science and Technology*, 77, 103908.
  36. Nazari, M., Shabani, R., Ajdary, M., Ashjari, M., Shirazi, R., Govahi, A., Kermanian, F., & Mehdizadeh, M. (2023). Effects of Au@Ag core-shell nanostructure with alginate coating on male reproductive system in mice. *Toxicology Reports*, 10, 1-9.
  37. Razavi, Y., Najafi, M., Haghparast, A., Keyhanfar, F., Shabani, R., & Mehdizadeh, M. (2022). Cannabidiol modulating the expression of neurotrophin signaling pathways in chronic exposure to methamphetamine in rats during abstinence period. *Basic and Clinical Neuroscience*, 13(5), 719-30.
  38. Nazari, M., Shabani, R., Shirazi, R., Ajdari, M., & Mehdizadeh, M. (2022). The reproductive toxicity of alginate-coated silver nanorod on sperm. *Human Reproduction*, 37, 214-214.
  39. Nazari, M., Shabani, R., Shirazi, R., Ajdari, M., & Mehdizadeh, M. (2022). P-056 The reproductive toxicity of alginate-coated silver nano-rod on sperm. *Human Reproduction*, 37(Suppl 1), 1-1.
  40. Gholipour, H., Bakhtiyari, M., Amjadi, F., Mehdizadeh, M., Aflatoonian, R., Zandieh, Z. (2022). O-137 Evaluation of the effect of seminal plasma exosomes from unexplained infertile men on the expression of implantation-related genes. *Human Reproduction*, 37(Suppl 1), 1-1.
  41. Tabatabaie, M., Amiri, S., Golestan Jahromi, M., Sene, A. A., Zandieh, Z., Mehdizadeh, M., & Amjadi, F. (2022). The effect of Myo-Inositol supplement on molecular regulation of folliculogenesis, steroidogenesis, and assisted reproductive technique outcomes in patients with polycystic ovarian syndrome. *Molecular Biology Reports*, 49(2), 875-84.
  42. Govahi, A., Amjadi, F., Nasr-Esfahani, M. H., Raoufi, E., & Mehdizadeh, M. (2021). Accompaniment of time-lapse parameters and cumulus cell RNA-sequencing in embryo evaluation. *Reproductive Sciences*, 1-15.
  43. Ajdary, M., Keyhanfar, F., Moosavi, M. A., Shabani, R., & Mehdizadeh, M. (2021). Potential toxicity of nanoparticles on the reproductive system animal models: A review. *Journal of Reproductive Immunology*, 103384.
  44. Shabani, R., Ashtrai, B., Moinzadeh, A., & Mehdizadeh, M. (2021). Labelling of human Wharton's jelly-derived mesenchymal stem cells with gold nanorods by biomimicry method. *Cell Biochemistry and Function*, 1-10.



45. Amiri, S., Amjadi, F., Ashrafi, M., Aflatoonian, R., Sene, A. A., Zandieh, Z., & Mehdizadeh, M. (2021). Three-dimensional co-culture of human endometrial cells with aneuploid and euploid embryos. *Human Reproduction*, 36, 304-304.
46. Amiri, S., Amjadi, F., Ashrafi, M., Aflatoonian, R., Akbar, S., Sene, A., Zandieh, Z., & Mehdizadeh, M. (2021). P-369 Three-dimensional co-culture of human endometrial cells with aneuploid and euploid embryos. *Human Reproduction*, 36(Suppl 1), 1-1.
47. Razavi, Y., Keyhanfar, F., Haghparast, A., Shabani, R., & Mehdizadeh, M. (2021). Cannabidiol promotes neurogenesis in the dentate gyrus during an abstinence period in rats following chronic exposure to methamphetamine. *Metabolic Brain Disease*, 1-10.
48. Kowsari, G., Mehrabi, S., Asl, S. S., Pourhamzeh, M., Mousavizadeh, K., & Mehdizadeh, M. (2021). Nicotine and modafinil combination protects against the neurotoxicity induced by 3,4-methylenedioxymethamphetamine in hippocampal neurons of male rats. *Journal of Chemical Neuroanatomy*, 101986.
49. Hajjari, S. N., Sadigh-Eteghad, S., Shanehbandi, D., Teimourian, S., Shahbazi, A., & Mehdizadeh, M. (2021). MicroRNA-4422-5p as a negative regulator of amyloidogenic secretases: A potential biomarker for Alzheimer's disease. *Neuroscience*, 463, 1-10.
50. Mosleh, H., Moradi, F., Mehdizadeh, M., Ajdary, M., Moeinzadeh, A., & Shabani, R. (2021). Health concerns regarding the effect of the COVID-19 pandemic on male fertility Alternative title (right-running-head): COVID-19 pandemic on male fertility.
51. Rasoolijazi, H., Norouzi Ofogh, S., Ababzadeh, S., Mehdizadeh, M., & Shabkhiz, F. (2021). Comparing the Effects of Rosemary Extract and Treadmill Exercise on the Hippocampal Function and Antioxidant Capacity in Old Rats. *Basic and Clinical Neuroscience*, 12(3), 361-372.
52. Ajdary, M., Ashrafi, M., Aflatoonian, R., & Mehdizadeh, M. (2021). The role of sperm in inducing genomic changes in the implantation: An experimental study. *Andrologia*, e14077.
53. Mosleh, H. R., Mehdizadeh, M., Moradi, F., Moeinzadeh, A., & Shabani, R. (2021). Evaluation of the effect of angiotensin converting enzyme2 in corona pandemic affect female infertility: A review article. *Feyz, Journal of Kashan University of Medical Sciences*, 25(1), 807-812.
54. Mosleh, H., Nazeri, S. A., Mehdizadeh, M., Moradi, F., Mosleh, H., Shabani, R., & Sajjadi, M. M. (2021). Using 3D Printing for Pre-planning of Orthopedic Surgeries, a Review. *Journal of Pharmaceutical Research International*, 53-62.
55. Daneshafrooz, N., Joghataei, M. T., Mehdizadeh, M., Alavi, A., Barati, M., Teimourian, S., & Zamani, B. (2021). Circulating miRNA biomarkers for sporadic Amyotrophic Lateral Sclerosis: a systematic meta-analysis and empirical validation.
56. Mombeiny, R., Tavakol, S., Kazemi, M., Mehdizadeh, M., Hasanzadeh, A., Karimi Babaahmadi, M., ... & Keyhanvar, P. (2021). Anti-inflammatory ethosomal nanoformulation in combination with iontophoresis in chronic wound healing: An ex vivo study. *IET nanobiotechnology*.
57. Karimi, G., Vahabzadeh, M., Lari, P., Rashedinia, M., Moshiri, M., Garbhapu, A., ... & Behravan, E. (2021). 2. "Silymarin", a Promising Pharmacological Agent for Treatment of Diseases. *Journal Archive*, 24.

58. Ajdary, M., Keyhanfar, F., Aflatoonian, R., Amani, A., Amjadi, F., Zandieh, Z., & Mehdizadeh, M. (2020). Design and evaluation of a novel nanodrug delivery system for reducing the side effects of clomiphene citrate on endometrium. *DARU Journal of Pharmaceutical Sciences*, 28, 423-432.
59. Alikhani, M., Amjadi, F., Mirzaei, M., Wu, Y., Shekari, F., Ashrafi, M., ... & Salekdeh, G. H. (2020). Proteome analysis of endometrial tissue from patients with PCOS reveals proteins predicted to impact the disease. *Molecular Biology Reports*, 47(11), 8763-8774.
60. Ajdary, M., Zandieh, Z., Amjadi, F. S., Keyhanfar, F., Mehdizadeh, M., & Aflatoonian, R. (2020). Interaction of sperm with endometrium can regulate genes involved in endometrial receptivity pathway in mice: An experimental study. *International Journal of Reproductive BioMedicine*, 18(10), 815-824.
61. Ajdary, M., Zandieh, Z., Amjadi, F. S., Keyhanfar, F., Mehdizadeh, M., & Aflatoonian, R. (2020). Interaction of sperm with endometrium can regulate genes involved in endometrial receptivity pathway in mice: An experimental study. *International Journal of Reproductive BioMedicine*, 18(10), 815.
62. Asl, S. S., Moravej, F. G., Kowsari, G., Farhadi, M. H., Pourhaydar, B., Hamidabadi, H. G., & Mehdizadeh, M. (2020). The Effects of 3, 4-methylenedioxymethamphetamine on Neurogenesis in the Hippocampus of Male Rats. *Basic and Clinical Neuroscience*, 11(4), 457.
63. Hajjri, S. N., Sadigh-Eteghad, S., Mehrpour, M., Moradi, F., Shanehbandi, D., & Mehdizadeh, M. (2020). Beta-amyloid-dependent mirnas as circulating biomarkers in Alzheimer's disease: a preliminary report. *Journal of Molecular Neuroscience*, 70(6), 871-877.
64. Razavi, Y., Shabani, R., Mehdizadeh, M., & Haghparast, A. (2020). Neuroprotective effect of chronic administration of cannabidiol during the abstinence period on methamphetamine-induced impairment of recognition memory in the rats. *Behavioural pharmacology*, 31(4), 385-396.
65. Hour, F. Q., Moghadam, A. J., Shakeri-Zadeh, A., Bakhtiyari, M., Shabani, R., & Mehdizadeh, M. (2020). Magnetic targeted delivery of the SPIONs-labeled mesenchymal stem cells derived from human Wharton's jelly in Alzheimer's rat models. *Journal of Controlled Release*, 321, 430-441.
66. Abbasi, Y., Mousavizadeh, K., Shabani, R., Katebi, M., & Mehdizadeh, M. (2020). Behavioral changes in combination therapy of ethanol and modafinil on rat's focal cerebral ischemia. *Basic and Clinical Neuroscience*, 11(3), 269.
67. Amjadi, F., Zandieh, Z., Mehdizadeh, M., Aghajanzpour, S., Raoufi, E., Aghamajidi, A., & Aflatoonian, R. (2020). The uterine immunological changes may be responsible for repeated implantation failure. *Journal of reproductive immunology*, 138, 103080.
68. Mehdizadeh, M., Ashtari, N., Jiao, X., Rahimi Balaei, M., Marzban, A., Qiyami-Hour, F., ... & Marzban, H. (2020). Alteration of the Dopamine Receptors' Expression in the Cerebellum of the Lysosomal Acid Phosphatase 2 Mutant (Naked-Ataxia (NAX)) Mouse. *International journal of molecular sciences*, 21(8), 2914.
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