Maryam Mahaldashtian

Born: 19th Oct 1981, Marvdasht, Iran

Nationality: Iranian

CONTACT

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LANGUAGES

Persian

English

TECHNICAL SKILLS

Cellular and Molecular Biology: Extraction of mesenchymal stem cells from the bone marrow/ Extraction of stem cells from testicular tissue/Cell culture / Differentiation of stem cell / PCR / Real-time-qPCR / RNA extraction / Clinical embryology

EDUCATION

PhD Degree: Reproductive Biology (2017-2022)

Shahid Sadoughi University of Medical Science, Yazd, Iran.

PhD thesis: The Effect of in-vitro application of Pentoxifylline on Ultrastructure of Spermatozoa and Embryo Morphokinetics in Azoospermic Patients

Supervisors: Prof. Mohammad Ali Khalili and Prof. Stefania Notolla

Master Degree: Embryology and Histology (2011-2014)

Damghan, Iran

Master thesis: The effect of aqueous extract of palm pollen on proliferation of spermatogonia stem cells in neonate mice

Bachelor Degree: General Biology (2001-2005)

Razi University, Kermanshah, Iran.

WORK EXPERIENCE

- Teaching practical histology to students of laboratory and medical sciences; Fasa University of medical science, Fasa, Iran (2015- 2017)

- Teaching theoretical and practical anatomy to paramedical students; Fasa University of medical science, Fasa, Iran (2015-2017)

- Clinical embryology; Infertility Clinic of Hazrat Zeinab Hospital, Shiraz, Iran (since 2022)

PUBLICATIONS

1.Mahaldashtian M, Makoolati Z, Ghorbanian MT, Naghdi M. Assessment of Culture Condition and in Vitro Colonization Ability of Human Spermatogonial Stem Cells: A Review Article. **Journal of Fasa University of Medical Sciences**. Spring 2013; Vol.3, No.1: page 1-8. Persian.

2.Mahaldashtian M, Makoolati Z, Ghorbanian MT, Naghdi M. The effect of aqueous extract of Phoenix Dactylifera Pollen on in vitro viability and proliferation rate of neonatal mouse spermatogonial stem cells. **Journal of Fasa University of Medical Sciences**. Winter 2014 .Vol.4 l No.4.Persian.

3.Mahaldashtian M, Makoolati Z, Ghorbanian MT, Naghdi M, Kouhpayeh SA. In vitro cytotoxicity effects of date palm (Phoenix dactylifera L.) pollen on neonate mouse spermatogonial stem cells. **Nat Prod Res. 2015;29(6):578-81. doi: 10.1080/14786419.2014.954115.**

4.Mahaldashtian M, Makoolati Z, Ghorbanian MT, Naghdi M, Movahedin M, Mohamadi SM. In vitro effects of date palm pollen on colonization of neonate mouse spermatogonial stem cells. **J Ethnopharmacol. 2016 Jun 20;186:362-368. doi: 10.1016/j.jep.2016.04.013.**

5.Naghdi M, Maghbool M, Seifalah-Zade M, Mahaldashtian M, Makoolati Z, Kouhpayeh SA, Ghasemi A, Fereydouni N. Effects of common Fig Leaf Extracts on sperm parameters and testis of mice intixicated with Formaldehyde. **Evid Based Complement Alternat Med. 2016;2539127. doi: 10.1155/2016/2539127.**

6.Mahaldashtian M, Khalili MA, Nottola SA, Woodward B, Macchiarelli G, Miglietta S. Does in vitro application of pentoxifylline have beneficial effects in assisted male reproduction? A Review Article **.Andrologia. 2020. Feb;53(1): e13722. doi: 10.1111/and.13722.**

7. Mahaldashtian M, Khalili MA, Anbari F, Seify M, Belli M. Challenges on the effect of cell phone radiation on mammalian embryos and fetuses: A Review of the Literature. **Zygote. 2021 Sep 29;1-7. doi: 10.1017/S0967199421000691**

8. Anbari F, Khalili MA, Mahaldashtian M, Ahmadi AR, Grazia Palmerin M. Fertility preservation strategies for cancerous women: an updated review. **Turk J Obstet Gynecol. 2022 Jun 27;19(2):152-161. doi: 10.4274/tjod.galenos.2022.42272.**

9. Mahaldashtian M, Khalili MA, Mangoli M, Zavereh S, Anbari F. Pentoxifylline treatment had no detrimental effect on Sperm DNA integrity and Clinical Characteristics in cases with Non-Obstructive Azoospermia. **Zygote . 2023 Feb;31(1):8-13. doi: 10.1017/S0967199422000247.**

10. Naghdi M, Bahrami H, Zamanzadeh Z, Mahaldashtian M, Moulazadeh AR, Makoolati Z. Efficacy of Ficus Carica leaf extract on morphological and molecular behavior of mice germ stem cells. Accepted. **Anim Reprod. 2022 Aug 19;19(2):e20220036. doi: 10.1590/1984-3143-AR2022-0036.**

11. Mahaldashtian M, Khalili MA, Vatanparast M, Anbari F, Nabi A, Mangoli E. The effect of Pentoxifylline and Calcium Ionophore Treatment on Sperm Cell Biology in Oligoasthenoteratozoospermia Samples. **Zygote. 2023 Feb;31(1):85-90. doi: 10.1017/S0967199422000582.**

12. Bagheripour N, Khalili MA, Nabi A, Mahaldashtian M, Vahidi S, Agha-Rahimi A. A new cryotop vial device system provides an aseptic cryoprotectant-free and centrifuge-free cryopreservation of human spermatozoa (a closed system). **Cryobiology. 2023 Jun; 111:70-75. doi: 10.1016/j.cryobiol.2023.03.001**.

13. Anbari F, Khalili M.A, Mahaldashtian M ,Woodward B, Mangoli E. The Consequence of Short Insemination Strategy on Sperm Biological Characteristics, Embryo Morphokinetics, and Clinical Outcomes in the IVF Program. **Andrologia**. **2023., Article ID 5566061, 8 pages. doi. 10.1155/2023/5566061.**

14. Mahaldashtian M, Khalili MA, Agha-Rahimi A, Mangoli E, Grazia Palmerin M, Nottola SA, Macchiarelli G. The effects of in-vitro application of pentoxifylline on morphokinetic parameters of pre-implantation embryos using a time-lapse imaging system: A sibling oocyte study. **American Journal of Men's Health.2024. accepted**

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REVIEW OF ARTICLES IN FOREIGN JOURNALS:

1. ACS omega journal
2. Asian pacific journal

RESEARCH PROJECTS:

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1) **"Effect of aqueous extract of palm pollen on the rate of proliferation of immature mouse spermatogonial stem cells in the culture medium"** approved by Fasa University of Medical Sciences.

2) "Effect of hydroalcoholic extract of fig leaves on expression of gfra1, oct4, mvh genes of immature mouse spermatogonial stem cells in colonies formed in culture medium" approved by Fasa University of Medical Sciences.

3) **"Investigation of the effect of treatment with Ficus carcica fig leaf extract" on the expression of CatSper family genes in the testis of adult mice"** approved by Fasa University of Medical

Sciences.

4) **"Investigation of the antioxidant effect of Ficus carcica fig leaf extract" on testis structure and sperm parameters of mice treated with formalin"** approved by Fasa University of Medical Sciences.

5) **"Investigating the effect of serum level on the proliferation of bone marrow mesenchymal stem cells in the early passages of culture"** approved by Fasa University of Medical Sciences.

6) **"Evaluation of Mitochondrial Membrane Potential and Position of Vacuoles in Spermatozoa Activated with Calcium Ionofer and Pentoxifylline of Oligoasthenotrato Sperm Samples"** approved by Yazd Research Institute of Reproductive Sciences.

PARTICIPATION IN CONFERENCES:

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1) **"1st International Congress on Reproductive Ethics & 3rd National Congress on Ethics and Modern Methods of Infertility Treatment".** December 2013; Jahrom, Iran. **Poster presentation**

2) **"6st National Congress IRHRC Reproductive and Infertility Updates ".** January 2014; Shahid Beheshti University of Medical Science; Tehran, Iran. **Poster presentation**

3) **" 11th Congress of Ahvaz Anatomical Science ".** 2014; Ahvaz, Iran. **Poster presentation**

4) **" 1st conference of microscopic studies".**May 2015; Shiraz, Iran. **Poster presentation**

5) **"10th Royan International Congress of Stem Cells Biology & Technology ".** September 2014, Tehran, Iran. **Oral presentation**

6) **"1st festival of the best in the reproduction field of ISERB".** May 2015; Tehran, Iran. **Poster presentation**

7) **"10th YAZD International Congress and Student Award on Reproductive Medicine With 5th Congress of Reproductive Genetics" .** 19-21 May 2023; Yazd, Iran. **Oral presentation. Award**

8) **"11th YAZD International Congress and Student Award on Reproductive Medicine With 6th Congress of Reproductive Genetics.** 15-17 May 2025; Yazd, Iran. **Oral presentation.**