

Curriculum Vitae

Personal information

First name: Arefeh

Surname: Aryan

Date of birth: September 09, 1991

Place of birth: Khorramabad, Lorestan, Iran

Gender: Female

Nationality: Iranian

Marital status: Single

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Educational Background

- ❖ **Ph.D.** in Anatomical Sciences, Shiraz University of Medical Sciences, Shiraz, Iran, 2018-2022. GPA: 18.24
Thesis title: Methamphetamine can induce alteration of histopathology and sex determination gene expression through the oxidative stress pathway in the testes of human post- mortem.
- ❖ **M.Sc.** in in Anatomical Sciences, Shahid Beheshti medical university, Tehran, Iran, 2013- 2017. **GPA:** 18
Thesis title: The effects of bone marrow mesenchymal stem cells conditioned medium on deep second degree burn wound healing in male rats
- ❖ **B.Sc.** in Anesthesiology, Lorestan University of Medical Sciences, Khorramabad, Iran, 2009-2013. **GPA:** 18.46

Honors

- ❖ Member of **exceptional talents** of Lorestan University of Medical Sciences
- ❖ Ranked as the **first student** among the B.Sc. student

Teaching Experiences

- ❖ Courses of Anatomical Sciences **in English** to international students of Shiraz University of Medical Sciences during 1 semester, including:
 - Anatomy (practical): **0.44 credit**
- ❖ Courses of Anatomical Sciences at Shiraz University of Medical Sciences during 10 semesters, including:

Theory:

- Anatomy: **9.5 Credits**

Practical:

- Anatomy: **4.48 Credits**
- Histology: **1.05 Credits**

Published Articles

- 1- **Aryan, Arefeh**, Mohammad-Amin Abdollahifar, Saied Karbalay-Doust, Mehdi Forozesh, Gholam-Reza Mahmoudiasl, Soheila Akaberi-Nasrabadi, and Soghra Bahmanpour. "Methamphetamine Can Induce Alteration of Histopathology and Sex Determination Gene Expression through the Oxidative Stress Pathway in the Testes of Human Post-Mortem." *Andrologia* (2022): e14441.
- 2- Amir-Hossein Bayat, Helia Azimi, Meysam Hassani Moghaddam, Vahid Ebrahimi, Mobina Fathi, Kimia Vakili, Gholam-Reza Mahmoudiasl, Mahdi Forouzesh, Mahdi Eskandarian Boroujeni, Zahra Nariman, Hojjat-Allah Abbaszadeh, **Arefeh Aryan**, Abbas Aliaghaei & Mohammad-Amin Abdollahifar COVID-19 causes neuronal degeneration and reduces neurogenesis in human hippocampus." *Apoptosis* (2022): Apoptosis <https://doi.org/10.1007/s10495-022-01754-9>
- 3- **Aryan, Arefeh**, Mohammad Bayat, Shahin Bonakdar, Soudabeh Taheri, Newsha Haghparast, Mohammad Bagheri, Abbas Piryaee, and Mohammad-Amin Abdollahifar. "Human Bone Marrow Mesenchymal Stem Cell Conditioned Medium Promotes Wound Healing in Deep Second-Degree Burns in Male Rats." *Cells Tissues Organs* 206, no. 6 (2018): 317-29.
- 4- Farahani, Mohammad Mahdi Vashghani, Reza Masteri Farahani, Ataroadat Mostafavinia, Mohammad Reza Abbasian, Ramin Pouriran, Mohammad Noruzian, Seyed Kamran Ghoreishi, **Arefeh Aryan**, and Mohammad Bayat. "Effect of Pentoxifylline Administration on an Experimental Rat Model of Femur Fracture Healing with Intramedullary Fixation." *Iranian Red Crescent Medical Journal* 17, no. 12 (2015).
- 5- Peirouvi, Tahmineh, Abbas Aliaghaei, Bahram Eslami Farsani, Sanaz Ziaei-pour, Vahid Ebrahimi, Mehdi Forozesh, Masoud Ghadipasha, Gholam-Reza Mahmoudiasl, **Arefeh Aryan**, and Negin Moghimi. "Covid-19 Disrupts the Blood-Testis Barrier through the Induction of Inflammatory Cytokines and Disruption of Junctional Proteins." *Inflammation Research* 70, no. 10 (2021): 1165-75.
- 6- Sefati, Niloofar, Mohsen Norouzian, Hojjat-Allah Abbaszadeh, Mohammad-Amin Abdollahifar, Abdollah Amini, Mohammad Bagheri, **Arefeh Aryan**, and Fatemeh Fadaei Fathabady. "Effects of Bone Marrow Mesenchymal Stem Cells-Conditioned Medium on Tibial Partial Osteotomy Model of Fracture Healing in Hypothyroidism Rats." *Iranian biomedical journal* 22, no. 2 (2018): 90.

❖ **Google scholar:** h-index:4
Citation:75

Contribution in research projects

1. Vimentin as a contributing factor in SARS-CoV-2-induced orchitis: a study on postmortem testicular autopsy of COVID-19 patients. Department of Anatomical sciences, Shahid Beheshti Medical University, Tehran, Iran

Participation in congresses

- 1) 1st ISERB Award of Excellence in the field of Reproduction, International Congress on Reproduction ISERB 2015.
- 2) 12st Iranian Congress on Anatomical sciences 4-6 May 2016, Tehran, Iran
- 3) 2st ISERB Award of Excellence in the field of Reproduction ISERB 2016 & ICRHC 2016
- 4) 17st Congress on Reproductive Biomedicine & 12st Congress on Stem Cell Biology & Technology, August 31, 2016 Royan Institute, Tehran, Iran

Participate in the workshop

- ❖ Statistical analysis, tables and graphs in scientific writing
- ❖ Counseling, nutrition and diet therapy with a comprehensive and scientific approach in the infertility treatment cycle
- ❖ Personal medicine in infertility reproduction
- ❖ How multidisciplinary approach toward sexuality and sexual dysfunction among infertile couples helps the outcome of infertility treatments
- ❖ Advances made in recent years by NGS
- ❖ Basic-applied training of SPSS software
- ❖ Unmarried marriages
- ❖ Participate in media flow course
- ❖ Search solutions in medical science databases on 9/26/2014
- ❖ Participate in the practical and theoretical training course REAL TIME PCR

Executive Activities

- 1) Member of executive committee in 12st Iranian Congress on Anatomical sciences 4-6 May 2016, Tehran, Iran
- 2) Member of executive committee 1st ISERB Award of Excellence in the field of Reproduction, International Congress on Reproduction ISERB 2015.

- 3) Member of executive committee 2st ISERB Award of Excellence in the field of Reproduction ISERB 2016 & ICRHC 2016
- 4) Head of Postgraduate Education Committee at shiraz university of medical sciences

Language Proficiencies

1. Persian: Native language
2. English: Good in listening and speaking and very good in writing and reading (MHLE: 55/100)
3. Teaching Anatomy and Histology in English for 15 hourse

Experienced Research Techniques

- ❖ Stereology and morphometric analysis
- ❖ Animal model
- ❖ Immunohistochemistry
- ❖ Cell culture technique
- ❖ DNA,RNA Extraction
- ❖ Real-Time PCR
- ❖ Histotechniques

Research Interests

- ❖ Stereology and morphometry
- ❖ Animal model study
- ❖ Stem cell
- ❖ Tissue engineering

- ❖ Reproduction and infertility

Referees

- ❖ Prof. Soghra Bahmanpour (Ph.D. thesis supervisor), Full Professor, Anatomy Department, Shiraz University of Medical sciences, Shiraz, Iran
E-mail: bahmans@sums.ac.ir Phone: +98(917)3161003
- ❖ Dr. Mohammad Amin Abdollahifar (Ph.D. thesis supervisor), Assistant Professor, Anatomy Department, Shahid Beheshti Medical University, Tehran, Iran.
E-mail: m_amin58@yahoo.com Phone: +98(916)3674183
- ❖ Dr. Abbas piryaei (MSc. thesis supervisor), Associated Professor, Anatomy Department, Shahid Beheshti Medical University, Tehran, Iran.
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