

CURRICULUM VITAE, Maliheh Jahromi

Curriculum vitae

Name:	Maliheh Jahromi
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Email: malihejahromi64@gmail.com

CURRENT STATUS

- PhD in Anatomical Sciences (stem cell and tissue engineering)

EDUCATIONAL BACKGROUND

- 2013-2020 **PhD** in Anatomical science, Isfahan University of Medical Sciences, Isfahan, Iran
Proposal title: Application of Electrospun poly (lactic-co-glycolic acid) (PLGA) conduit Containing gold nanoparticles and BDNF with r-ADSCs for Rat sciatic nerve Regeneration
- 2010-2013 **MSc** in Anatomical science, Isfahan University of Medical Sciences, Isfahan, Iran
Proposal title: The influence of antidepressant drugs sertraline and paroxetine on the neurogenic differentiation of human adipose-derived stem cells

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- **BSc** in Nursing, Isfahan University of Medical Sciences, Isfahan, Iran

RESEARCH INTERESTS

- **Stem Cell**

Cell culture, Mesenchymal stem cells, Proliferation, Differentiation, Neurogenesis

- **Tissue Engineering**

In Vitro and In Vivo Studies for the Development of Cell-Based Therapies, Growth Factors, Nanoparticles and Biomaterials

TECHNICAL EXPERIENCES

- Cell culture, Electrospinning, MTT assay, Real Time- PCR, Histology, Immunohistochemistry, Electrophysiology, Behavioral tests,....

PROFESSIONAL EXPERIENCES

- 2018 Launching and performing the first electrophysiological test of the sciatic nerve in Isfahan University of Medical Sciences, Esfahan, Iran

ACTIVITES

- Membership of office for gifted and talented students
- The title of the second-best student in Iran in the master's exam
- Highest GPA in PhD students among incoming students

COURSES AND WORKSHOPS:

- Cell Culture workshop, At international Congress of Isfahan Biomedical Sciences Isfahan-Iran. January 3, 2021.

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- Amazing View of Nano World by FESEM, At international Congress of Isfahan Biomedical Sciences Isfahan-Iran. January 24, 2021.
- Real-Time PCR workshop, At international Congress of Isfahan Biomedical Sciences Isfahan-Iran. December 13, 2020.
- Elisa, At international Congress of Isfahan Biomedical Sciences Isfahan-Iran. December 23, 2020.
- Separation of Mesenchymal Stem Cells From Adipose Tissue, At international Congress of Isfahan Biomedical Sciences Isfahan-Iran. January 5, 2021.
- MSCs Isolation From Umbilical Vein, At international Congress of Isfahan Biomedical Sciences Isfahan-Iran. January 10, 2021.
- Monoclonal Antibody Production, At international Congress of Isfahan Biomedical Sciences Isfahan-Iran. December 27, 2020.
- 2020 Participate in “advanced search workshop” from Universal Scientific Education & Research Network (USERN) (1)
- 2020 Participate in “advanced search workshop” from Universal Scientific Education & Research Network (USERN) (2)
- 2020 Participate in “advanced search workshop” from Tehran University of Medical Sciences Student Scientific Research Center
- 2020 Certificate of workshop Endnote from Tehran University of Medical Sciences Student Scientific Research Center

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- 2019 Participate in “advanced search workshop” Research and Technology of Isfahan University of Medical Sciences
- 2016 Participate in “Real-Time PCR workshop” Applied Physiology Research Center at Isfahan University of Medical Sciences
- 2016 Participate in “electrospinning workshop” Iran Technical and Vocational Organization

COMPUTER SKILLS

- Mastery of Photoshop software to design images of articles and have a degree in this course from the Information and Communication Technology Organization of Isfahan Municipality, as well as mastery of SPSS, Excel, End note, PowerPoint, etc. to present and analyze data

SELECTED PUBLICATIONS

CONFERENCES

1. Application of Various Stem Cells for Nerve Tissue Engineering; International Congress of Isfahan Biomedical Sciences, Isfahan University of Medical Sciences, Isfahan, Iran, 26 September-1th October 2020
2. Fabrication Nerve Conduits with Proper Condidate Materials Can Increase Chance of Peripheral Nerve Regeneration; in the 4th International Congress on BioMedicine (ICB2020) held on November 9th-16th, 2020
3. Exogenous sources of some nutrients and growth factors for peripheral nerve regeneration; in the 4th International Congress on BioMedicine (ICB2020) held on November 9th-16th, 2020

4. Evaluation of proliferation and neurogenesis of human adipose derive stem cells after sertraline treatment; 12th Iranian Congress on Anatomical Sciences; Shahid Beheshti University of Medical Sciences; Tehran; Iran, 4-6 May 2016
5. Paroxetine Can Enhance Neurogenesis during Neurogenic Differentiation of Human Adipose-derived Stem Cells; 13th Iranian Congress on Anatomical Sciences; Hamedan University of Medical Sciences; Hamedan, Iran, 17-19 October 2018
6. Effect of sertraline on expression of Neatin and GFAP markers and proliferation of human adipose derive stem cells. International Congress on Stem Cells and Regenerative Medicine, Mashhad, 20-22 May 2015

JOURNAL PAPERS

1-**Maliheh Jahromi**, Shahnaz Razavi, Reihaneh Seyedebrahimi, Parham Reisi, Mohammad Kazemi. Regeneration of rat sciatic nerve using PLGA conduit containing rat ADSCs with controlled release of BDNF and gold nanoparticles, *Journal of Molecular Neuroscience*, 2020. Doi: 10.1007/s12031-020-01694-6

2-Shahram Amini, Ahmad Saudi, Noushin Amirpour, **Maliheh Jahromi**, Samira Shariati Najafabadi, Mohammad Kazemi, Mohammad Rafienia, Hossein Salehi, Application of electrospun polycaprolactone fibers embedding lignin nanoparticle for peripheral nerve regeneration: In vitro and in vivo

study, International Journal of Biological Macromolecules, 159 (2020) 154–173, doi: 10.1016/j.ijbiomac.2020.05.073

3- **Maliheh Jahromi**, Shahnaz Razavi, Abbas Bakhtiari, The Advance in Nerve Tissue Engineering: From Fabrication of Nerve Conduit to *In Vivo* Nerve Regeneration Assays. Journal of Tissue Engineering and Regenerative Medicine, 2019, 13(11), doi:10.1002/term.2945

4- Shahnaz Razavi, Reihaneh Seyedehbrahimi, **Maliheh Jahromi**, Bodelivery of nerve growth factor and gold nanoparticles encapsulated in chitosan nanoparticles for schwann-like cells differentiation of human adipose-derived stem cells, Biochemical and Biophysical Research Communications, 2019, 513, 681-687. <https://doi.org/10.1016/j.bbrc.2019.03.189>

5- Alireza Abootalebi, Seyyed Mehdi Mirhosseini, Amirreza Sajjadih Khajouei, Reza Moayednia, **Maliheh Jahromi**. Comparison of troponin, High-Sensitivity Troponin and Copeptin markers results at different times in patients with chest pain and high risk, Journal of Isfahan Medical School (JIMS) 2019, DOI: 10.22122/jims.v37i528.10865

7- Maliheh Jahromi, Shahnaz Razavi, Nushin Amirpour, and Zahra Khosravizadeh., Paroxetine Can Enhance Neurogenesis during Neurogenic Differentiation of Human Adiposederived Stem Cells, Avicenna Journal of Medical Biotechnology, 2016, 8(4): 152–158.

7- Shahnaz Razavi, **Maliheh Jahromi**, Nushin Amirpour, Zahra Khosravizadeh. Effect of sertraline on proliferation and neurogenic

differentiation of human adipose-derived stem cells, *Advanced Biomedical Research*, 2014 DOI:10.4103/2277-9175.129367

8- Differential Effects of Encapsulation of Rat ADSCs in Fibrin Matrix and Combination Delivery of BDNF and Gold Nanoparticles on Peripheral Nerve Regeneration, Shahnaz Razavi, **Maliheh Jahromi**, Elham Vatankhah, Reihaneh Seyedebrahimi, *BMC Neuroscience*, DOI: 10.21203/rs.3.re-62321/v1

9- Evaluation of Pomegranate Seed Extract and TGF- β 3 on Chondrogenic Differentiation of Human Adipose-Derived Stem Cells, Marziyeh Tavasoli, **Maliheh Jahromi**, Mohammad Kazemi, Abbas ali Rabiee, Nafiseh Esmaeeli, , Batool Hashemibeni, *Journal of applied biotechnology reports*.