

Ahmad Vaez Curriculum Vitae

Personal information:

Ahmad Vaez (Assistant professor)

Mobile: +989131649085

Email: ahmadvaez@yahoo.com

Educations:

2014-2018: Doctor of philosophy (PhD), Department of Tissue Engineering and Applied Cell Sciences, The School of Advanced Technologies in Medicine (SATiM), Tehran University of Medical Sciences (TUMS), Tehran, Iran.

2010-2014: Master of Science (MSc), Anatomical sciences Department, school of medicine, Isfahan University of medical sciences, Isfahan, Iran.

2002-2006: Bachelor of Science (BSc), school of Nursing and Midwifery, Isfahan University of medical sciences, Isfahan, Iran.

Research interests:

Tissue engineering

Regenerative medicine

Microfluidics

Position:

Department of Tissue Engineering and Applied Cell Sciences, School of Advanced Medical Sciences and Technologies, Shiraz University of Medical Sciences, Shiraz, Iran.

Publications:

Articles:

1. Mahdi Naseri-Nosar, Saeed Farzamfar, Hamed Sahrapeyma, Sadegh Ghorbani, Farshid Bastami, **Ahmad Vaez***, Majid Salehi*. Cerium oxide

- nanoparticle-containing poly (ϵ -caprolactone)/gelatin electrospun film as a potential wound dressing material: in vitro and in vivo evaluation. *Materials Science and Engineering: C*. 2017; 81: 366-372.
2. Mohammad Mardani, **Ahmad Vaez**, Shahnaz Razavi. Effect of saffron on rat sperm chromatin integrity. *Iranian journal of reproductive medicine*. 2014;12(5): 343–350.
 3. Saeed Farzamfar, Mahdi Naseri-Nosar, Hadi Samadian, Simin Mahakizadeh, Roksana Tajerian, Majid Rahmati, **Ahmad Vaez**, Majid Salehi. Taurine-loaded poly (ϵ -caprolactone)/gelatin electrospun mat as a potential wound dressing material: In vitro and in vivo evaluation. *Journal of Bioactive and Compatible Polymers*. 2018; 33(3): 282-294.
 4. Hadi Samadian, Majid Salehi, Saeed Farzamfar, **Ahmad Vaez**, Arian Ehterami, Hamed Sahrapeyma, Arash Goodarzi, Sadegh Ghorbani. In vitro and in vivo evaluation of electrospun cellulose acetate/ gelatin/ hydroxyapatite nanocomposite mats for wound dressing applications. *Artificial cells, nanomedicine, and biotechnology*. 2018; 1-11.
 5. **Ahmad Vaez**, Mohammad Mardani, Shahnaz Razavi. Impact of saffron on rat sperm membrane integrity and spermatogenesis status. *Advanced biomedical research*. 2014; 3: 146.
 6. Majid Salehi, Mahdi Naseri-Nosar, Somayeh Ebrahimi-Barough, Mohammdreza Nourani, **Ahmad Vaez**, Saeed Farzamfar, Jafar Ai. Regeneration of sciatic nerve crush injury by a hydroxyapatite nanoparticle-containing collagen type I hydrogel. *The Journal of Physiological Sciences*. 2018; 68(5): 579-587.
 7. Mahdi Naseri-Nosar, Saeed Farzamfar, Majid Salehi, **Ahmad Vaez**, Roksana Tajerian, Mahmoud Azami. Erythropoietin/aloe vera-releasing wet-electrospun polyvinyl alcohol/chitosan sponge-like wound dressing: In vitro and in vivo studies. *Journal of Bioactive and Compatible Polymers*. 2018; 33(3): 269-281.
 8. Saeed Farzamfar, Mahdi Naseri-Nosar, **Ahmad Vaez**, Farshid Esmaeilpour, Arian Ehterami, Hamed Sahrapeyma, Hadi Samadian, Amir-Ali Hamidieh, Sadegh Ghorbani, Arash Goodarzi, Arian Azimi, Majid Salehi. Neural tissue regeneration by a gabapentin-loaded cellulose acetate/gelatin wet-electrospun scaffold. *Cellulose*. 2018; 25(2): 1229-1238.

9. Majid Salehi, **Ahmad Vaez**, Mahdi Naseri-Nosar, Saeed Farzamfar, Arman Ai, Jafar Ai, Shima Tavakol, Mehrdad Khakbiz, Somayeh Ebrahimi-Barough. Naringin-loaded Poly (ϵ -caprolactone)/Gelatin Electrospun Mat as a Potential Wound Dressing: In vitro and In vivo Evaluation. *Fibers and Polymers*. 2018; 19(1): 125-134.
10. Saeed Farzamfar, Mahdi Naseri-Nosar, Hamed Sahrapeyma, Arian Ehterami, Arash Goodarzi, Majid Rahmati, Gholamreza Ahmadi Lakalayeh, Sadegh Ghorbani, **Ahmad Vaez**, Majid Salehi. Tetracycline hydrochloride-containing poly (ϵ -caprolactone)/poly lactic acid scaffold for bone tissue engineering application: in vitro and in vivo study. *International Journal of Polymeric Materials and Polymeric Biomaterials*. 2018; 1-8.
11. Arian Ehterami, Majid Salehi, Saeed Farzamfar, **Ahmad Vaez**, Hadi Samadian, Hamed Sahrapeyma, Mehdi Mirzaii, Sadegh Ghorbani, Arash Goodarzi. In vitro and in vivo study of PCL/collagen wound dressing loaded with insulin-chitosan nanoparticles on cutaneous wound healing in rats model. *International journal of biological macromolecules*. 2018; 117: 601-609.
12. **Seyed Ahmad Vaez**, Somayeh Ebrahimi-Barough, Masoud Soleimani, Sedighe Kolivand, Saeed Farzamfar, Seyed Hossein Ahmadi Tafti, Mahmoud Azami, Farshid Noorbakhsh, Jafar Ai. The cardiac niche role in cardiomyocyte differentiation of rat bone marrow-derived stromal cells: comparison between static and microfluidic cell culture methods. *EXCLI journal*. 2018; 17: 762.
13. Saeed Farzamfar, Mahdi Naseri-Nosar, Alireza Ghanavatinejad, **Ahmad Vaez**, Amir Hassan Zarnani, Majid Salehi. Sciatic nerve regeneration by transplantation of menstrual blood-derived stem cells. *Molecular biology reports*. 2017; 44(5): 407-412.
14. Saeed Farzamfar, Farshid Esmailpour, Majid Rahmati, **Ahmad Vaez**, Mehdi Mirzaii, Behzad Garmabi, Asghar Shayannia, Elham Ebrahimi, Hamid Vahedi, Majid Salehi. Poly-lactic Acid/Gelatin Nanofiber (PLA/GTNF) Conduits Containing Platelet-Rich Plasma for Peripheral Nerve Regeneration. *International Journal of Health Studies*. 2017; 3(2).
15. Saeed Farzamfar, Majid Salehi, Arian Ehterami, Mahdi Naseri-Nosar, **Ahmad Vaez**, Amir Hassan Zarnani, Hamed Sahrapeyma, Mohammad-

- Reza Shokri, Mehdi Aleahmad. Promotion of excisional wound repair by a menstrual blood-derived stem cell-seeded decellularized human amniotic membrane. *Biomedical Engineering Letters*. 2018; 1-6.
16. Hahnaz Razavi, **Sayyed Ahmad Vaez**, Mohammad Mardani. Optimizing Acridine orange staining for assessment of protective effects of saffron and vitamin E on rat sperm DNA structure. *Journal of Isfahan Medical School (IUMS)*. 2014; 32 (293), 1-12.
 17. Nazem Ghasemi, Gholam-Reza Dashti, Fatimah Amoozgar, **Seyed Ahmad Vaez**. Effect of Cholesterol, Iron and Vitamin E on Protamine Deficiency and DNA Fragmentation of Male Rabbit Sperm. *Journal of Isfahan Medical School*. 2014; 31 (259).
 18. Saeed Farzamfar, Arian Ehterami, Majid Salehi, **Ahmad Vaez**, Amir Atashi, Hamed Sahrapeyma. Unrestricted Somatic Stem Cells Loaded in Nanofibrous Conduit as Potential Candidate for Sciatic Nerve Regeneration. *Journal of Molecular Neuroscience*. 2018; 1-14.
 19. Saeed Farzamfar, Akram Hasanpour, Niloufar Nazeri, Hengameh Razavi, Majid Salehi, Shilan Shafei, Vajihah T Nooshabadi, **Ahmad Vaez**, Arian Ehterami, Hamed Sahrapeyma, Jafar Ai. Extracellular micro/nanovesicles rescue kidney from ischemia-reperfusion injury. *Journal of cellular physiology*. 2019.
 20. Ehterami, A., M. Salehi, S. Farzamfar, H. Samadian, **A. Vaez**, S. Ghorbani, J. Ai, and H. Sahrapeyma, *Chitosan/alginate hydrogels containing Alpha-tocopherol for wound healing in rat model*. *Journal of Drug Delivery Science and Technology*, 2019; **51**: p. 204-213.
 21. Samadian, H., **A. Vaez**, A. Ehterami, M. Salehi, S. Farzamfar, H. Sahrapeyma, and P. Norouzi, **Sciatic nerve regeneration by using collagen type I hydrogel containing naringin**. *Journal of Materials Science: Materials in Medicine*, 2019; 30(9): p. 107.
 22. Arabpour, Z., A. Baradaran-Rafii, N. Lotfi Bakhshaiesh, J. Ai, S. Ebrahimi-Barough, H. Esmaeili Malekabadi, N. Nazeri, **A. vaez**, M. Salehi, and F. Sefat, **Design and Characterization of Biodegradable Multi Layered Electrospun Nanofibers for Corneal Tissue Engineering Applications**. *Journal of Biomedical Materials Research Part A*, 2019.
 23. Salehi, M., A. Ehtrami, F. Bastami, S. Farzamfar, S. Hosseinpour, H. Vahedi, **A. Vaez**, M. Rahvar, and A. Goodarzi, *Polyurethane/Gelatin Nanofiber Neural Guidance Conduit in Combination with Resveratrol and Schwann Cells for Sciatic Nerve Regeneration in the Rat Model*. *Fibers and Polymers*, 2019; 20(3): p. 490-500.

24. Samadian, H., A. Ehterami, S. Farzamfar, **A. Vaez**, H. Khastar, M. Alam, A. Ai, Z. Allahyari, and M. Salehi, *Electrospun cellulose acetate/gelatin nanofibrous wound dressing containing berberine for diabetic foot ulcer healing: in vitro and in vivo studies*. ***Scientific Reports***, 2020; 10 (1): 1-12.
25. Majid Salehi, Maryam Niyakan, Arian Ehterami, Saeed Haghi-Daredeh, Simin Nazarnezhad, Ghasem Abbaszadeh-Goudarzi, **Ahmad Vaez** et al. Porous electrospun poly (ϵ -caprolactone)/gelatin nanofibrous mat containing cinnamon for wound healing application: in vitro and in vivo study. ***Biomedical engineering letters***, 2020; 10 (1): 149-161.
26. Salehi M, Ehterami A, Farzamfar S, **Vaez A**, Ebrahimi-Barough S. Accelerating healing of excisional wound with alginate hydrogel containing naringenin in rat model. ***Drug Delivery and Translational Research***. 2020.
27. Ehterami A, Salehi M, Farzamfar S, Samadian H, **Vaez A**, Sahrapeyma H, et al. A promising wound dressing based on alginate hydrogels containing vitamin D3 cross-linked by calcium carbonate/d-glucono- δ -lactone. ***Biomedical Engineering Letters***. 2020;10(2):309.
28. Samadian H, Zamiri S, Ehterami A, Farzamfar S, **Vaez A**, Khastar H, et al. Electrospun cellulose acetate/gelatin nanofibrous wound dressing containing berberine for diabetic foot ulcer healing: in vitro and in vivo studies. ***Scientific Reports***. 2020;10(1):1-12.
29. Abbaszadeh-Goudarzi, Ghasem, Saeed Haghi-Daredeh, Arian Ehterami, Majid Rahmati, Simin Nazarnezhad, Seyedeh Fatemeh Hashemi, Maryam Niyakan, **Ahmad Vaez**, and Majid Salehi. Evaluating effect of alginate/chitosan hydrogel containing 4-Methylcatechol on peripheral nerve regeneration in rat model. ***International Journal of Polymeric Materials and Polymeric Biomaterials***. 2020:1-10.
30. Samadian H, Farzamfar S, **Vaez A**, Ehterami A, Bit A, Alam M, et al. A tailored polylactic acid/polycaprolactone biodegradable and bioactive 3D porous scaffold containing gelatin nanofibers and Taurine for bone regeneration. ***Scientific reports***. 2020;10(1):1-12.
31. Gheisari F, Shafiee M, Abbasi M, Jangjou A, Izadpanah P, **Vaez A**, et al. Janus nanoparticles: An efficient intelligent modern nanostructure for eradicating cancer. ***Drug Metabolism Reviews***. 2021:1-12.
32. Ali Jangjou, Amir Hossein Meisami, Kazem Jamali, Mohammad Hadi Niakan, Milad Abbasi, Mostafa Shafiee, Majid Salehi, Ahmad Hosseinzadeh, Ali Mohammad Amani & **Ahmad Vaez**. The promising shadow of microbubble over medical sciences: from fighting wide scope of prevalence disease to cancer eradication. ***Journal of Biomedical Science***. 2021;28(1):1-24.

Books:

Principles of Tissue Engineering, 4th Edition– 2014. Supervisor and translator of part 9 (cardiovascular) and part 13 (Kidney and Genitourinary system).

Presentations:

The cardiomyocyte conversion of bone marrow-derived stromal cells (BMSCs) in 2D and 3D culture method; the first International Iranian tissue Engineering and Regenerative Medicine congress (*ITERM2018*).