

Curriculum Vitae
Elham Vojoudi

Address: Department of Tissue Engineering and Applied Cell Sciences, Rasht University of Medical Sciences, Rasht, Iran
Telephone: +989141511586
E-mail: elhamvojoodi@yahoo.com

CURRENT POSITION

Rasht University of Medical Sciences, Rasht, Iran

RESEARCH INTERESTS

Adult stem cell proliferation and differentiation, Synthesis of nanoparticles and electrospinning many kind of polymers, Decellularized extracellular matrix (dECM) and reconstruction of an in vitro 3D microenvironment, Tissue engineering and regeneration in all of organs special cartilage, bone, intervertebral disc

KEY SKILLS AND ATTRIBUTES

- LEADERSHIP I have played the role of advisor to the BSc. and MSc. in the lab. This has allowed me to learn most aspects of all the projects in the lab and has provided me with key experience in leadership and project management.
- TECHNICAL I am well versed in the interpretation of cell culture and differentiation, Tissue sections and staining techniques, Cell viability assay (MTT, Live-Dead assay,...), Real-time polymerase chain reaction (Real-Time PCR), UV spectra, flow cytometry, ELISA readers, DLS, Rheometry instruments.

EDUCATION

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| 2019 | Ph.D. (Tissue engineering), Tehran University of Medical Sciences (TUMS). |
| 2018 | As an internship in the AO Foundation (Davos, Switzerland) for six months |
| 2014 | M.S. (Anatomy), Mahshad University of Medical Sciences (MUMS). |
| 2000 | B.S. (Midwifery), Gilan University of Medical Sciences (GUMS). |

RESEARCH EXPERIENCE IN UNIVERSITY

- M. SC. THESIS TITLE: Glycoconjugates distribution changes on the cell surface & extracellular matrix in the developing cells as well as organizers of the spinal cord during embryonic and early fetal periods in balb/c mouse embryos.
- PHD THESIS TITLE: Tissue engineering of cartilage by differentiation of human endometrial stem cells in the injectable nanocomposite hydrogels scaffold containing cartilage extracellular matrix.

CERTIFICATE AND MEMBERSHIP

- 2011-** The ranked first in the national examination for PhD entrance
- 2011- The ranked first among my classmates during in the PhD qualifying examination.
- 2012-** The first grade in M.Sc among total Anatomy students in M.S.
- 2013-** The first grade in B.Sc among total Midwifery students.

WORKSHOPS

- TEHRAN, 2014 AND 2016 2D and 3D cell culture workshop, Department of Tissue Engineering, School of Advanced Technologies in Medicine, Tehran University of Medical Sciences.
- TEHRAN, 2016 Immunohistochemistry workshop, Department of Tissue Engineering, School of Advanced Technologies in Medicine, Tehran University of Medical Sciences.
- TEHRAN, 2013, 2014 AND 2016 Western blot workshop, Department of Tissue Engineering, School of Advanced Technologies in Medicine, Tehran University of Medical Sciences.
- TEHRAN, 2014 Advances in Tissue Engineering 2014"short course, Department of Tissue Engineering, School of Advanced Technologies in Medicine, Tehran University of Medical Sciences.
- TEHRAN, 2016 Acellular methods workshop, Department of Tissue Engineering, School of Advanced Technologies in Medicine, Tehran University of Medical Sciences.
- TEHRAN, 2014 PCR, Department of Anatomy, kashan University of Medical Sciences.

PUBLICATIONS

1. Jamileh Saremi, Zeinab Zarei-Behjani, Elham Vojoudi, Somayeh Ebrahimi-Barough, Evaluation of Viability and Cell Attachment of Human Endometrial Stem Cells on Electrospun Silk Scaffolds Prepared Under Different Degumming Conditions and Solvents, *Regenerative Engineering and Translational Medicine* (2022).
2. Hossein Vojoudi, Alireza Badiei, Elham Vojoudi, System and method for treating chemical byproducts using ultrasonic irradiation, US Patent 2021/0106927 A1.
3. Vojoudi H, Ghasemi F, Vojoudi E, Synthesis, characterization and antibacterial properties of a novel modified magnetic nanocomposite, *Journal of Pharmaceutical & Health Sciences*, Volume 3, Issue 2. Spring 2015.
4. Z. Narimanpour, Maryam Nazm Bojnordi, Ebrahimi-Barough Somayeh, Vojoudi Elham, Saremi Jamileh, H. H. Ghasemi. Silk Nanofibrous Electrospun Scaffold Amplifies Proliferation and Stemness Profile of Mouse Spermatogonial Stem Cells. Published: 20 November 2020. *Regenerative Engineering and Translational Medicine*.
5. Safari Z, Soudi S, Jafarzadeh N, Hosseini AZ, Vojoudi E, Sadeghizadeh M. Promotion of angiogenesis by M13 phage and RGD peptide in vitro and in vivo. *Sci Rep*. 2019 Aug 1; 9 (1):11182. doi: 10.1038/s41598-019-47413-z.
6. Elham Vojoudi, Jafar Ai, Mohamadreza Baghaban Eslaminejad, Mahmood Azami, Abdol-Mohammad Kajbafzadeh, Somayeh Ebrahimi. A novel inexpensive method for preparation of silk nanofibers from cocoons. *Iranian Chemical Communication*.
7. Bojnordi MN, Ebrahimi-Barough S, Vojoudi E, Hamidabadi HG. Silk nanofibrous electrospun scaffold enhances differentiation of embryonic stem like cells derived from testis in to mature neuron. *J Biomed Mater Res A*. 2018 Oct; 106(10):2662-2669. doi: 10.1002/jbm.a.36463.
8. Vojoudi E, Ebrahimi V, Ebrahimzadeh-Bideskan A, Fazel A. Glycoconjugates distribution during developing mouse spinal cord motor organizers. *Iran Biomed J*. 2015; 19(1):63-8.
9. Ebrahimi V, Vojoudi E, Fazel A, Ebrahimzadeh-Bideskan A. Histochemical study of retinal photoreceptors development during pre- and postnatal period and their association with retinal pigment epithelium. *Iran J Basic Med Sci*. 2014 Jul; 17(7):483-9.
10. Ebrahimi V., Vojoudi E., Fazel A.R., Ebrahimzadeh Bideskan A.R. Histochemical Lectin Study of Glycoconjugates Terminal Sugars during Retina Ganglionic Cell Differentiation in Rat Eye. *Quarterly of the Horizon of Medical Sciences*. Volume 20, Issue 2, summer 2014.
11. Vojoudi E, Ebrahimi V, Ebrahimzadeh Bideskan AR, Fazel AR. Glycoconjugates distribution in the lateral walls of spinal cord during mouse morphogenesis using lectin histochemical method. *J Gorgan Uni Med Sci*. 2016; 18 (1):16-22.
12. Mehrafza M , Raoufi A, Abdollahian P, Nikpouri Z, Shadmani K, Najafi M, Vojoudi E , Hosseini A. Anti-Müllerian hormone as a predictor of IVF treatment. Volume 70, Number 6 (5 2012). *Tehran Univ Med J* 2012, 70(6): 371-377.

PATENTS

1. **US Patent:** Hossein Vojoudi, Alireza Badiei, Elham Vojoudi, System and method for treating chemical byproducts using ultrasonic irradiation, US Patent 2021/0106927 A1.

2. A device for removal, extraction and detection of chemical compounds in different environmental conditions under ultrasonic irradiation –*Patent* – 2016
3. Chemical bonded Cover wounds by polymer nano-fibers graphene oxide coated with anti-bacterial properties – *Patent* – 2017

References:

Prof. Jafar Ai

<http://samt.tums.ac.ir>

Tel: (009821) - 43052200

Fax: (009821) - 88991121

Address: Department of Medical Nanotechnology,

School of Advanced Technologies in Medicine,

TUMS, Italia Street, Tehran, Iran

Prof. Mauro Alini

AO Research Institute Davos (ARI)

Clavadelerstrasse 8

7270 Davos, Switzerland

Tel.: +41 81 414 23 10

Fax: +41 81 414 22 88

Prof. Martin Stoddart

Prof. Mauro Alini

AO Research Institute Davos (ARI)

Clavadelerstrasse 8

7270 Davos, Switzerland

Tel.: +41 81 414 24 48

Fax: +41 81 414 22 88