

Dr. Roushangar zineh Leila Ph.D.

Professor in Histology & Embryology, Tissue engineering/integrative regenerative medicine

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Address:

1- Anatomical sciences and Tissue engineering department, Faculty of Medicine, Tabriz University of Medical Sciences. Tabriz, IRAN.

2- Stem Cell Research Center, Tabriz University of Medical Sciences. Tabriz, Iran

Education

University	Major	Degree	Date
Tabriz / Iran	Histology	M.Sc.	1997-2000
Tabriz /Iran	Histology& Embryology	Ph. D	2000-2003
Tokyo/Japan	Tissue Engineering &TEM	Scholarship	2003-2004
Sweden/Iran	Integrative Regenerative Medicine	Postdoc	2014-2015

Member of Associations:

- **Director of Stem cell research center**, Tabriz University of Medical Sciences (2016- present).
- **Head of anatomical sciences, Department**, Tabriz University of Medical Sciences (2018- 2020).
- Member of Iranian anatomical sciences **Board in Ministry of health and medical education** (2016- present).
- Cultural Deputy of Faculty of Medicine, Tabriz University of Medical Sciences (2006- 2019)
- Member of Aging Research Institute, Tabriz University of Medical Sciences, Iran (2010- present)
- Scram, Tabriz University of Medical Sciences (20015- present).
- Member of Iranian Anatomical Sciences Society (2004- present).
- Member of Iranian Tissue Engineering Society (2012- present).
- Member of Iranian Society of Reproductive Medicine (2018- present).
- Member of National Cell Death Society (IRAN, 2008- present).
- Member of Neuroscience Research Center (Tabriz, IRAN, 2007- present)

Teaching Experience

- Teaching Histology and Embryology, Tissue Engineering, Biology, Cell culture, Histological and Histochemical Technique, Regenerative medicine for paramedical and biology students MSC, Ph.D., Postdoc and specialized courses in Tabriz Universities for 16 years (2004- present).
- Teaching Practical Histology and Embryology for Medical, Dentistry, Pharmaceutical students (2004- present).

Honors/Achievements

- Selected **Top Technologist** of growths and innovation centers in University in 21th Festival of Research, Technology 2022, Tabriz University of Medical Sciences, Tabriz, IRAN.
- Selected **Top Technologist** of University in 18th Festival of Research, Technology 2019, Tabriz University of Medical Sciences, Tabriz, IRAN.
- Scientific CEO of Knowledge-based Company of Manufacturer bio-printer and Tissue Engineering Substitute, Canada & Iran.
- Registration of 7 Inventions in the country (R&D) Tabriz University of medical sciences, Tabriz, IRAN, (2019, 2018).
- Distinguished Academic and Research Member in the Faculty of Medicine in Tabriz University of Medical Sciences, Tabriz, IRAN, 2012.
- Distinguished Academic and Research Member in the University in Tabriz University of Medical Sciences, Tabriz, IRAN, 2009.
- The First of the National Festival on Famous and Innovative Women in 2008.
- Distinguished Student between **All Universities of Iran in 2003.**
- Scholarship for Ph.D. from Faculty of Medicine, Medical Sciences, University of Tabriz. Iran
- Distinguished Student in the Tabriz University in 2002, 2003, 2004.
- Distinguished Student in the Universities of Tabriz and Tabriz Medical Sciences university in the field of Mural and Research, in 2005.
- Scholarship from Ministry of Health science IRAN for a 6months, complementary period of Ph.D. in Tokyo University Japan.
- Sabbatical leave as (post doc.) Integrative Regenerative Medicine, Department of Clinical and Experimental Medicine at Liu University in Sweden, 2015.

- Presenting of my research in the Life Science Seminar series at the medical faculty at Liu University in Sweden, 22 Oct. 2015. (As Guest Professor).

Supervisor & adviser Thesis

47 Ph. D Thesis supervisor (from 2004-present, in faculty of medicine, pharmacy and Dental school in Tabriz, Tehran, Shiraz, Ahvaz, Kerman, Oromieh, IRAN.

1 Ph. D Thesis supervisor collaborate with Sheffield University, Uk.

2 Ph. D Thesis supervisor collaborate with Odense University, Denmark.

3 Ph. D Thesis supervisor collaborate with yeditapah University, Turkey.

4 Postdoc student, on Production of bio-ink for tissue engeneering.

40 MSc Thesis supervisor from 2004-present, in faculty of medicine, pharmacy, Dental in Tabriz, Tehran, Shiraz, Ahvaz, Kerman, Oromieh, IRAN.

3 postdoc supervisor, 38 Ph. D. and 29 MSc. as adviser from 2004-present, in Faculty of Medicine, Pharmacy, Dentistry in Tabriz, Tehran, Shiraz, Ahvaz, Kerman, Oromieh, IRAN.

Language

English, Turkish, Persian

Research interest

1. **Tissue engineering** (3D and 2D culture) (**Acellular Substitute**) (**skin, Cartilage, bone...**).
2. Herbal and Animal **Exosomes** Biology and its application.
3. **Bio printer**, Bioreactor and Their application
4. Application of **cold atmospheric plasma** on stem cells
5. Mesenchymal stem cell biology and its applications.
6. Skin, Cartilage and bone **Clinical trial** in tissue engineering.
7. Oogonial and Spermatogonial Stem cell, Cell death biology, Reprotoxicity, IVF, ART

Skills

Tissue Engineering and Molecular and Biological Techniques

- Isolation and Characterization and Differentiation of Stem Cells from adipose tissue, Umbilical cord, Bone Marrow, Dental Pulp, hair follicle, Hippocampus, testis, Human Milk... with mechanical and enzymatic methods
- Isolation and characterization of Exosomes from Bone Marrow, Human Milk, Semen, serum, Amniotic fluid.
- Scaffold Preparation and Characterization techniques such as: 3D Printing, Electrospinning, Salt-Leaching, Spheroid formation, Micro-capsulation, Casting, Phase separation, freeze-drying.
- Dcellularization and Recellularization of Human and animal skin, Sheep and Bovine Intestine, Bone, Cartilage, Dental Tissues, Umbilical cord and Amniotic membrane with mechanical and enzymatic methods.
- 3D and 2D cell culture, TEM, SEM, MTT and Live-Dead cell assays, RNA and DNA Extraction, RT-PCR, Western Blot, FTR, XRD. Flow cytometry, Eliza, Histological and Immunohistochemically techniques (IHC, ICC, IFC), Tissue freezing and thawing.
- Animal Handling and Surgical Technique in Animal Models based on **cell Therapy**
- IVF and Microinjection

International Collaborative Projects

- 1- Sheffield University: Allogeneic Acellular skin production for medical applications (2017)
- 2- Odense University: Effect of bone marrow derived exosomes loaded with estradiol on bone defect (2018), Denmark.
- 3- Yeditepe University: the investigation of urine-derived exosomes carried boron and astaxanthin on prostate cancer cells, Turkey (2019).
- 4- Yeditepe University: Evaluation of the effect of iL1-Ra obtained by A C S, on cancer cells from prostate cancer and comparison of its with synthetic iL1-Ra (Kineret), Turkey (2019).

National Research Projects

- 1- Study of Regeneration of skin by adipose derived stem cells and umbilical cord Wharton's jelly derived stem cells seeded on novel designed scaffolds with/without presence of Mineral pitch agent in burn model (Mega project) (2017).
- 2- Study of regeneration of skin burns in rats with using of adipose stem cells (ASCs) seeded on two novel scaffolds (2017).
- 3- Effect of Stromal Vascular Fraction and condition medium exosomes on treatment of covid-19 patient with ARDS (2020).
- 4- Herbal and Animal Source Exosomes on cell free therapy (2018- 2020).
- 5- Effect of plasma-derived exosomes on cumulus expansion and fertility rate in mice in vitro (2019)
- 6- Effect of bone marrow-derived exosomes loaded with estradiol on bone defect (2018).
- 7- Designing and manufacturing of three-dimensional printers (bio three-dimensional printers) (2018).

8- Combined effect of acellular skin patch and synthetic biocompatible scaffold using stem cells fractions on cutaneous engineering. (2018).

9- Evaluation of novel scaffolds loaded with wharton's jelly-derived mesenchymal stem cellson skin regeneration of burn rat wound (2016).

10- Study of mummy substance on cultured adipose-derived stem cells and fibroblast and their co-culture with or without scaffold (2016).

Oral Presentation in International Congress

-Australia, 2006 IFFS congress

-Italy, felurence,2007 bioengineering congress

-Belgium, Antwerp 2007 Fertility and infertility

- Greece, Athena 2009 IFFS congress.

-Germany, monish 2010 Fertility and infertility

-Singapore, 2011, IFFS congress

-Sweden, Linköping 2015 Life science seminar.

-Turkey, Istanbul 2017, 2018, 2019, Biomaterial and bio printing

-Iran, Tehran, 2003,2004,2005, 2006, 2007, 2008,2019. Anatomical sciences congress.

-Iran, Tehran, 2015-2019, stem cell and regenerative medicine, congress.

Publications:

1. Aslanian-kalkhoran, L., Kamrani, A., Alipourfard, I., ...Soltani-Zangbar, M.S., Yousefi, M. The effect of lymphocyte immunotherapy (LIT) in modulating immune responses in patients with recurrent pregnancy loss (RPL). *International Immunopharmacology* [this link is disabled](#), 2023, 121, 110326.
2. Malekpour, K., Hazrati, A., Soudi, S., ... **Roshangar, L.**, Pourfathollah, A.A., Ahmadi, M. Combinational administration of mesenchymal stem cell-derived exosomes and metformin reduces inflammatory responses in an in vitro model of insulin resistance in HepG2 cells. *Heliyon*, 2023, 9(5), e15489.
3. Dadashi, H., Eskandani, M., Roshangar, L., ...Cho, W.C., Jahanban-Esfahlan, R. Remotely-controlled hydrogel platforms for recurrent cancer therapy. *Journal of Drug Delivery Science and Technology* [this link is disabled](#), 2023, 82, 104354.
4. Hashemi, B., Abdollahi, M., Abbaspour-Aghdam, S., ...**Roshangar, L.**, Ahmadi, M. The effect of probiotics on immune responses and their therapeutic application: A new treatment option for multiple sclerosis. *Biomedicine and Pharmacotherapy* [this link is disabled](#), 2023, 159, 114195
5. Gholami Farashah, M.S., Mohammadi, A., Javadi, M., ...Meshgi, S., **Roshangar, L.** Bone marrow mesenchymal stem cells' osteogenic potential: superiority or non-superiority to other sources of mesenchymal stem cells?. *Cell and Tissue Banking* [this link is disabled](#), 2023.

6. Nejabat, H.R., **Roshangar, L.**, Nouri, M. Follicular fluid extracellular vesicle miRNAs and ovarian aging. *Clinica Chimica Acta*, 2023, 538, pp. 29–35
7. Gholami Farashah, M.S., Javadi, M., Mohammadi, A., ...Shakouri, S.K., **Roshangar, L.** Bone marrow mesenchymal stem cell's exosomes as key nanoparticles in osteogenesis and bone regeneration: specific capacity based on cell type. *Molecular Biology Reports*, 2022, 49(12), pp. 12203–12218
- 8.
9. Kangari, P., **Roshangar, L.**, Iraj, A., Talaei-Khozani, T., Razmkhah, M. Accelerating effect of Shilajit on osteogenic property of adipose-derived mesenchymal stem cells (ASCs). *Journal of Orthopaedic Surgery and Research*[this link is disabled](#), 2022, 17(1), 424
10. Soltani-Zangbar, M.S., Parhizkar, F., Ghaedi, E., ...Miahipour, A., Yousefi, M. A comprehensive evaluation of the immune system response and type-I Interferon signaling pathway in hospitalized COVID-19 patients. *Cell Communication and Signaling*[this link is disabled](#), 2022, 20(1), 106.
11. Pishgahi, A., Zamani, M., Mehdizadeh, A., ...Pourabbas, B., Yousefi, M. The therapeutic effects of autologous conditioned serum on knee osteoarthritis: an animal model. *BMC Research Notes*, 2022, 15(1), 277
12. Abbaszadeh, H., Ghorbani, F., Abbaspour-Aghdam, S., ...**Roshangar, L.**, Ahmadi, M. Chronic obstructive pulmonary disease and asthma: mesenchymal stem cells and their extracellular vesicles as potential therapeutic tools. *Stem Cell Research and Therapy*[this link is disabled](#), 2022, 13(1), 262.
13. Safari, B., Aghazadeh, M., **Roshangar, L.**, Aghanejad, A., Davaran, S.. A bioactive porous scaffold

containing collagen/ phosphorous-modified polycaprolactone for osteogenesis of adipose-derived mesenchymal stem cells. *European Polymer Journal* [this link is disabled](#), 2022, 171, 111220.

14. Javadi, M., Rad, J.S., Farashah, M.S.G., **Roshangar, L***. An Insight on the Role of Altered Function and Expression of Exosomes and MicroRNAs in Female Reproductive Diseases. *Reproductive Sciences* [this link is disabled](#), 2022, 29(5), pp. 1395–1407.
15. Hadisi, N., Abedi, H., Shokoohi, M., ...Zolfagharzadeh, A., **Roshangar, L***. COVID-19 and Endocrine System: A Cross-Sectional Study on 60 Patients with Endocrine Abnormality. *Cell Journal* [this link is disabled](#), 2022, 24(4), pp. 182–187.
16. Jahanbani, Y., Shafiee, S., Davaran, S., Roshangar, L* ...Dolati, S., Yousefi, M. Stem cells technology as a platform for generating reproductive system organoids and treatment of infertility-related diseases. *Cell Biology International* [this link is disabled](#), 2022, 46(4), pp. 512–522.
17. Malekpour, K., Hazrati, A., Zahar, M., ...**Roshangar, L***, Ahmadi, M. The Potential Use of Mesenchymal Stem Cells and Their Derived Exosomes for Orthopedic Diseases Treatment. *Stem Cell Reviews and Reports* [this link is disabled](#), 2022, 18(3), pp. 933–951.
18. Sarvari, R., Keyhanvar, P., Agbolaghi, S., ...Hamed, E. **Roshangar, L***, Nouri, M. A comprehensive review on methods for promotion of mechanical features and biodegradation rate in amniotic membrane scaffolds. *Journal of Materials Science: Materials in Medicine* [this link is disabled](#), 2022, 33(3), 32.

19. Safari, B., Aghanejad, A., Kadkhoda, J., ...**Roshangar, L***, Davaran, S. Biofunctional phosphorylated magnetic scaffold for bone tissue engineering. *Colloids and Surfaces B: Biointerfaces* this link is disabled, 2022, 211, 112284.
20. Javadi, M., Soleimani Rad, J., Pashaiasl, M., Farashah, M.S.G., **Roshangar, L***. The effects of plasma-derived extracellular vesicles on cumulus expansion and oocyte maturation in mice. *Reproductive Biology* this link is disabled, 2022, 22(1), 100593.
21. Khoshkam, Z., Habibi-Rezaei, M., Hassanvand, M.S., **Roshangar, L** ...Gholampour, A., Moosavi-Movahedi, A.A. The oxidative and neurotoxic potentials of the ambient PM2.5 extracts: The efficient multi-solvent extraction method. *Science of the Total Environment* this link is disabled, 2022, 810, 152291.
22. Raziye Kheirjou . Jafar Soleimani Rad . Ahad Ferdowsi Khosroshahi . Soodabeh Davaran . Leila Roshangar. Evaluation the ability of acellular ovine small intestine submucosa to load and release of mineral pitch and its anti-inflammatory effects. *Cell Tissue Bank*, [https://doi.org/10.1007/s10561-021-09985-x\(0123456789\(\).,-volV\)\(01234567, 2021](https://doi.org/10.1007/s10561-021-09985-x(0123456789().,-volV)(01234567, 2021).
23. Sarvari, R., Nouri, M., Agbolaghi, S., **Roshangar, L** ...Seifalian, A.M., Keyhanvar, P. A summary on non-viral systems for gene delivery based on natural and synthetic polymers. *International Journal of Polymeric Materials and Polymeric Biomaterials* this link is disabled, 2022, 71(4), pp. 246–265.
24. Serati-Nouri, H., Mahmoudnezhad, A., Bayrami, M., ... **Roshangar, L**, Pilehvar, Y., Zarghami, N. Sustained delivery efficiency of curcumin through ZSM-5 nanozeolites/electrospun nanofibers for counteracting senescence of human adipose-derived stem cells. *Journal of Drug Delivery Science and Technology* this link is disabled, 2021, 66, 102902.
25. Saghati, S., Khoshfetrat, A.B., Tayefi Nasrabadi, H., **Roshangar, L**, Rahbarghazi, R. Fabrication of alginate-based hydrogel cross-linked via horseradish peroxidase for articular cartilage engineering. *BMC Research Notes*, 2021, 14(1), 384.

26. Serati-Nouri, H., Rasoulpoor, S., Pourpirali, R., ...**Roshangar, L.**, Zarghami, N. In vitro expansion of human adipose-derived stem cells with delayed senescence through dual stage release of

- curcumin from mesoporous silica nanoparticles/electrospun nanofibers. Life Sciences, 2021, 285, 119947.
27. Mahmoodpoor, A., Hosseini, M., Soltani-Zangbar, S., **Roshangar, L** ...Kafil, H.S., Yousefi, M. Reduction and exhausted features of T lymphocytes under serological changes, and prognostic factors in COVID-19 progression Molecular Immunology, 2021, 138, pp. 121–127.
28. Mihanfar, A., Nouri, M., **Roshangar, L.**, Khadem-Ansari, M.H. Ameliorative effects of fisetin in letrozole-induced rat model of polycystic ovary syndrome. Journal of Steroid Biochemistry and Molecular Biology, 2021, 213, 10595.
29. Aghazadeh, A., Feizi, M.A.H., Fanid, L.M., Ghanbari, M., **Roshangar, L.** Effects of Hyperthermia on TRPV1 and TRPV4 Channels Expression and Oxidative Markers in Mouse Brain. Cellular and Molecular Neurobiology, 2021, 41(7), pp. 1453–1465.
30. Mousavi, Z., Ghorbian, S., Rezamand, A., **Roshangar, L.**, Jafari, B. Expression Profile of LncRNAs in Childhood Acute Lymphoblastic Leukemia: A Pilot Study. Pharmaceutical Sciences, 2021, 27(3), pp. 385–392.
31. Alipour, M., Fadakar, S., Aghazadeh, M., **Roshangar, L.**...Mousavi, E., Aghazadeh, Z. Synthesis, characterization, and evaluation of curcumin-loaded endodontic reparative material. Journal of Biochemical and Molecular Toxicology, 2021, 35(9), e22854.
32. Vahedi, P., Hosainzadegan, H., Brazvan, B., ...Shafaei, H., **Roshangar, L.**, Salimnejad, R. Treatment of cartilage defects by Low-intensity pulsed ultrasound in a sheep model. Cell and Tissue Banking, 2021, 22(3), pp. 369–378.
33. Tahmasebi, S., Saeed, B.Q., Temirgalieva, E., ...Ahmadi, M., **Roshangar, L.** Nanocurcumin

- improves Treg cell responses in patients with mild and severe SARS-CoV2. Life Sciences, 2021, 276, 119437.
34. Tahmasebi, S., Qasim, M.T., Krivenkova, M.V., ...Ahmadi, M., **Roshangar, L.** The effects of oxygen–ozone therapy on regulatory T-cell responses in multiple sclerosis patients. Cell Biology International, 2021, 45(7), pp. 1498–1509.
35. Tahmasebi, S., El-Esawi, M.A., Mahmoud, Z.H., **Roshangar, L.** ...Aghebat-Maleki, L., Ahmadi, M. Immunomodulatory effects of nanocurcumin on Th17 cell responses in mild and severe COVID-19 patients. Journal of Cellular Physiology, 2021, 236(7), pp. 5325–5338
36. Hajipour, H., Farzadi, L., **Roshangar, L.**, ...Fattahi, A., Nouri, M. A human chorionic gonadotropin (hCG) delivery platform using engineered uterine exosomes to improve endometrial receptivity. Life Sciences, 2021, 275, 119351
37. Mihanfar, A., Nouri, M., **Roshangar, L.**, Khadem-Ansari, M.H. Therapeutic potential of quercetin in an animal model of PCOS: Possible involvement of AMPK/SIRT-1 axis. European Journal of Pharmacology, 2021, 900, 174062.
38. Sarvari, R., Nouri, M., **Roshangar, L.**, ...Agbolaghi, S., Keyhanvar, P. Conductive Bio-Copolymers based on Pectin-Polycaprolactone/ Polyaniline and Tissue Engineering Application Thereof. Journal of Ultrafine Grained and Nanostructured Materials, 2021, 54(1), pp. 64–72.
39. Mihanfar, A., Nouri, M., **Roshangar, L.**, Khadem-Ansari, M.H. Polyphenols: Natural compounds with promising potential in treating polycystic ovary syndrome. Reproductive Biology, 2021, 21(2), 100500.
40. Soltani-Zangbar, M.S., Aghebat-Maleki, L., Hajivalili, M., **Roshangar, L.** ...Parhizkar, F., Yousefi,

M.Application of newly developed SARS-CoV2 serology test along with real-time PCR for early detection in health care workers and on-time plasma donation. Gene Reports, 2021, 23, 101140.

41. **Roshangar, L.**, Rad, J.S., Kheirjou, R., Khosroshahi, A.F. Using 3D-bioprinting scaffold loaded with adipose-derived stem cells to burns wound healing. Journal of Tissue Engineering and Regenerative Medicine, 2021, 15(6), pp. 546–555.
42. Kheirjou, R., Rad, J.S., Khosroshahi, A.F., **Roshangar, L.** The useful agent to have an ideal biological scaffold. Cell and Tissue Banking, 2021, 22(2), pp. 225–239
43. Sadeghi, A., Tahmasebi, S., Mahmood, A., **Roshangar, L.**...Mikaeili, H., Ahmadi, M. Th17 and Treg cells function in SARS-CoV2 patients compared with healthy controls. Journal of Cellular Physiology, 2021, 236(4), pp. 2829–2839
44. Ghorbani M, **Roshangar, L***. Construction of collagen/nanocrystalline cellulose based-hydrogel scaffolds: synthesis, characterization, and mechanical properties evaluation, International Journal of Polymeric Materials and Polymeric Biomaterials, 2021, 70(2), pp. 142–148.
45. Safari, B., Aghanejad, A., **Roshangar, L***., Davaran, S. Osteogenic effects of the bioactive smallmolecules and minerals in the scaffold-based bone tissue engineering. Colloids and Surfaces B:Biointerfaces, 2021, 198, 111462
46. Motavalli, R., Etemadi, J., Soltani-Zangbar, M.S., **Roshangar, L** ...Ahmadian Heris, J., Yousefi, M. Altered Th17/Treg ratio as a possible mechanism in pathogenesis of idiopathic membranous nephropathy. Cytokine, 2021, 141, 155452.
47. Hajipour, H., Farzadi, L., **Roshangar, L.**, ...Fattahi, A., Nouri, M. A human chorionic gonadotropin

(hCG) delivery platform using engineered uterine exosomes to improve endometrial receptivity. Life Sciences, 2021, 275, 119351.

48. Mihanfar, A., Nouri, M., **Roshangar, L.**, Khadem-Ansari, M.H. Therapeutic potential of quercetin in an animal model of PCOS: Possible involvement of AMPK/SIRT-1 axis. European Journal of Pharmacology, 2021, 900, 174062
49. Tahmasebi, S., Saeed, B.Q., Temirgalieva, E., ...Ahmadi, M., **Roshangar, L***. Nanocurcumin improves Treg cell responses in patients with mild and severe SARS-CoV2. Life Sciences, 2021, 276, 119437.
50. Soltani-Zangbar, M.S., Aghebati-Maleki, L., Hajivalili, M., Roshangar, L.... Parhizkar, F., Yousefi, M. Application of newly developed SARS-CoV2 serology test along with real-time PCR for early detection in health care workers and on-time plasma donation. Gene Reports, 2021, 23, 101140.
51. Safari, B., Aghanejad, A., **Roshangar, L.**, Davaran, S. Osteogenic effects of the bioactive small molecules and minerals in the scaffold-based bone tissue engineering. Colloids and Surfaces B: Biointerfaces, 2021, 198, 111462
52. Ghorbani, M., **Roshangar, L***. Construction of collagen/nanocrystalline cellulose based-hydrogel scaffolds: synthesis, characterization, and mechanical properties evaluation. International Journal of Polymeric Materials and Polymeric Biomaterials, 2021, 70(2), pp. 142–148
53. Javadi, M., Rad, J.S., Farashah, M.S.G., **Roshangar, L***. An Insight on the Role of Altered Function and Expression of Exosomes and MicroRNAs in Female Reproductive Disease. Reproductive Sciences, 2021.
54. Divband, B., Samiei, M., Davaran, S., **Roshangar, L**Shahi, S., Aghazadeh, M.

Synthesis and in vitro evaluation of thermosensitive pla-g-p(Hem-co-nipaam) hydrogel used for delivery of vegf. *Biointerface Research in Applied Chemistry*, 2021, 11(1), pp. 8043-8051

55. Shakouri, S.K., **Roshangar, L.**, Mahmoodpoor, A. Intratracheal administration of autologous conditioned serum for COVID-19 associated respiratory distress syndrome. *Journal of Critical Care*, 2020, 60, pp. 209-211
56. Ghaebi, M., Osali, A., Valizadeh, H., **Roshangar, L.**, Ahmadi, M. Vaccine development and therapeutic design for 2019-nCoV/SARS-CoV-2: Challenges and chances. *Journal of Cellular Physiology*, 2020, 235(12), pp. 9098-9109
57. Babak Roushangar Zineh¹ , Mohammad Reza Shabgard¹ , Leila Roshangar, An Experimental Study on the Mechanical and Biological Properties of Bio-Printed Alginate/Halloysite Nanotube/Methylcellulose/Russian Olive-Based Scaffolds. *Adv Pharm Bull*, 2018
58. BabakRoushangar Zineha, Mohammad RezaShabgarda, LeilaRoshangarbKamalJahani, Experimental and numerical study on the performance of printed alginate/hyaluronic acid/halloysite nanotube/polyvinylidene fluoride bio-scaffolds. *ournal of Biomechanics* Volume 104, 7 May 2020, 109764
59. Valizadeh, H., Abdolmohammadi-vahid, S., Danshina, S., **Roshangar, L**Valizadeh, S., Ahmadi, M. Nano-curcumin therapy, a promising method in modulating inflammatory

cytokines in COVID-19 patients. *International Immunopharmacology*, 2020, 89, 107088

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61. Izadi, M., Tahmasebi, S., Pustokhina, I., **Roshangar L**, Yousefi, M., Ahmadi, M. Changes in Th17 cells frequency and function after ozone therapy used to treat multiple sclerosis patients: Ozone therapy uses to treat multiple sclerosis patients. *Multiple sclerosis and related disorder*, 46,102466, 2020.
62. Danaii, S., Ghorbani, F., Ahmadi, M., **Roshangar L**, Aghebati-Maleki, L., Yousefi, M. IL-10-producing B cells play important role in the pathogenesis of recurrent pregnancy loss, *International immunology*, 87,106806, 2020.
63. Alizadeh-Fanalou, S., Alian, F., Mohammadhosayni, **Roshangar L**, M., (...), Abbasi Ghasem Kheyli, P., Ahmadi, M Dysregulation of microRNAs regulating survivin in CD4+ T cells in multiple sclerosis
64. Pourakbari, R., Hosseini, M., Aslani, S., **Roshangar L**, Ahmadi, M., Shirvani, B. Association between interleukin 2 receptor A gene polymorphisms (rs2104286 and rs12722489) with susceptibility to multiple sclerosis in Iranian population. *Meta Gene* 25,100750, 2020.
65. Nejabati, H.R., Samadi, N., Shahnazi, V., (...), **Roshangar, L.**, Nouri, M. Nicotinamide and its metabolite N1-Methylnicotinamide alleviate endocrine and metabolic abnormalities in adipose and ovarian tissues in rat model of Polycystic Ovary Syndrome, *Chemico-Biological Interactions*, 2020. *Journal of Critical Care*, 2020, 60, pp. 209-211
66. Abbaspour-Aghdam, S., Ahmadi, M., Aslani, S., (...), **Roshangar, L.**, Babaloo, Z.

- Molecular analysis of CTLA4 gene in patients with Behçet's disease from an Iranian Northwest Azeri population, *Gene Reports*, 2020.
67. Roushangar Zineh, B., Shabgard, M.R., **Roshangar, L.**, Jahani, K. Experimental and numerical study on the performance of printed alginate/hyaluronic acid/halloysite nanotube/polyvinylidene fluoride bio-scaffolds, *Journal of Biomechanics*, 2020.
68. Ghorbani, M., **Roshangar, L.**, Soleimani Rad, J. Development of reinforced chitosan/pectin scaffold by using the cellulose nanocrystals as nanofillers: An injectable hydrogel for tissue engineering, *European Polymer Journal*, 2020.
69. Baghban, R., **Roshangar, L.**, Jahanban-Esfahlan, R., (...), Javaheri, T., Zare, P. Tumor microenvironment complexity and therapeutic implications at a glance. *Cell Communication and Signaling* 2020.
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