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**Google scholar: https://scholar.google.com/citations?hl=en&pli=1&user=cyEQx9kAAAAJ**

## 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

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| **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

* + - **Leader and first person** of the **country** in medical Histology as per announcement of scientometric of the Ministry of health, treatment and medical education 2023. <http://isid.research.ac.ir>
		- 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 & Tissue Engineered skin dress, 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.

1. Yeditepe University: the investigation of urine-derived exosomes carried boron and astaxanthin on prostate cancer cells, Turkey (2019).
2. 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) (2022).
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).

1. Combined effect of acellular skin patch and synthetic biocompatible scaffold using stem cells fractions on cutaneous engineering. (2018).
2. Evaluation of novel scaffolds loaded with wharton’s jelly-derived mesenchymal stem cellson skin regeneration of burn rat wound (2016).
3. 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.](https://www.scopus.com/authid/detail.uri?authorId=57195605156), [Kamrani, A.](https://www.scopus.com/authid/detail.uri?authorId=57204290131), [Alipourfard, I.](https://www.scopus.com/authid/detail.uri?authorId=57202639406), ...[Soltani-Zangbar, M.S.](https://www.scopus.com/authid/detail.uri?authorId=57189099987), [Yousefi, M.](https://www.scopus.com/authid/detail.uri?authorId=16235087000) The effect of lymphocyte immunotherapy (LIT) in modulating immune responses in patients with recurrent pregnancy loss (RPL). [International Immunopharmacologythis link is disabled](https://www.scopus.com/authid/detail.uri?authorId=23019793700#disabled), 2023, 121, 110326.
	2. [Malekpour, K.](https://www.scopus.com/authid/detail.uri?authorId=57539235500), [Hazrati, A.](https://www.scopus.com/authid/detail.uri?authorId=57539872500), [Soudi, S.](https://www.scopus.com/authid/detail.uri?authorId=16302626600), ... [**Roshangar, L**.](https://www.scopus.com/authid/detail.uri?authorId=23019793700), [Pourfathollah, A.A.](https://www.scopus.com/authid/detail.uri?authorId=6507401067), [Ahmadi, M.](https://www.scopus.com/authid/detail.uri?authorId=58182991600) 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.](https://www.scopus.com/authid/detail.uri?authorId=57226122879), [Eskandani, M.](https://www.scopus.com/authid/detail.uri?authorId=36058703900), [Roshangar, L.](https://www.scopus.com/authid/detail.uri?authorId=23019793700), ...[Cho, W.C.](https://www.scopus.com/authid/detail.uri?authorId=57220116088), [Jahanban-Esfahlan, R.](https://www.scopus.com/authid/detail.uri?authorId=54784612200) Remotely-controlled hydrogel platforms for recurrent cancer therapy. [Journal of Drug Delivery Science and Technologythis link is disabled](https://www.scopus.com/authid/detail.uri?authorId=23019793700#disabled), 2023, 82, 104354.
	4. [Hashemi, B.](https://www.scopus.com/authid/detail.uri?authorId=57201703296), [Abdollahi, M.](https://www.scopus.com/authid/detail.uri?authorId=57207793498), [Abbaspour-Aghdam, S.](https://www.scopus.com/authid/detail.uri?authorId=57204196359), ...**[Roshangar, L](https://www.scopus.com/authid/detail.uri?authorId=23019793700)**[.](https://www.scopus.com/authid/detail.uri?authorId=23019793700), [Ahmadi, M.](https://www.scopus.com/authid/detail.uri?authorId=56817894400) The effect of probiotics on immune responses and their therapeutic application: A new treatment option for multiple sclerosis. [Biomedicine and Pharmacotherapythis link is disabled](https://www.scopus.com/authid/detail.uri?authorId=23019793700#disabled), 2023, 159, 114195
	5. [Gholami Farashah, M.S.](https://www.scopus.com/authid/detail.uri?authorId=57211908934), [Mohammadi, A.](https://www.scopus.com/authid/detail.uri?authorId=57209848264), [Javadi, M.](https://www.scopus.com/authid/detail.uri?authorId=57222658638), ...[Meshgi, S.](https://www.scopus.com/authid/detail.uri?authorId=57200168508), **[Roshangar, L](https://www.scopus.com/authid/detail.uri?authorId=23019793700)**[.](https://www.scopus.com/authid/detail.uri?authorId=23019793700) Bone marrow mesenchymal stem cells’ osteogenic potential: superiority or non-superiority to other sources of mesenchymal stem cells?. [Cell and Tissue Bankingthis link is disabled](https://www.scopus.com/authid/detail.uri?authorId=23019793700#disabled), 2023.
	6. [Nejabati, H.R.](https://www.scopus.com/authid/detail.uri?authorId=57193114658), **[Roshangar, L](https://www.scopus.com/authid/detail.uri?authorId=23019793700)**[.](https://www.scopus.com/authid/detail.uri?authorId=23019793700), [Nouri, M.](https://www.scopus.com/authid/detail.uri?authorId=55346031100) Follicular fluid extracellular vesicle miRNAs and ovarian aging. [Clinica Chimica Acta](https://www.scopus.com/authid/detail.uri?authorId=23019793700#disabled), 2023, 538, pp. 29–35
	7. [Gholami Farashah, M.S.](https://www.scopus.com/authid/detail.uri?authorId=57211908934), [Javadi, M.](https://www.scopus.com/authid/detail.uri?authorId=57222658638), [Mohammadi, A.](https://www.scopus.com/authid/detail.uri?authorId=57209848264), ...[Shakouri, S.K.](https://www.scopus.com/authid/detail.uri?authorId=26027649700), **[Roshangar, L](https://www.scopus.com/authid/detail.uri?authorId=23019793700)**[.](https://www.scopus.com/authid/detail.uri?authorId=23019793700) Bone marrow mesenchymal stem cell’s exosomes as key nanoparticles in osteogenesis and bone regeneration: specific capacity based on cell type. [Molecular Biology Reports](https://www.scopus.com/authid/detail.uri?authorId=23019793700#disabled), 2022, 49(12), pp. 12203–12218
	8. [Kangari, P.](https://www.scopus.com/authid/detail.uri?authorId=56288762100), **[Roshangar, L](https://www.scopus.com/authid/detail.uri?authorId=23019793700)**[.](https://www.scopus.com/authid/detail.uri?authorId=23019793700), [Iraji, A.](https://www.scopus.com/authid/detail.uri?authorId=52563516100), [Talaei-Khozani, T.](https://www.scopus.com/authid/detail.uri?authorId=57202639404), [Razmkhah, M.](https://www.scopus.com/authid/detail.uri?authorId=8663943800) Accelerating effect of Shilajit on osteogenic property of adipose-derived mesenchymal stem cells (ASCs). [Journal of Orthopaedic Surgery and Researchthis link is disabled](https://www.scopus.com/authid/detail.uri?authorId=23019793700#disabled), 2022, 17(1), 424
	9. [Soltani-Zangbar, M.S.](https://www.scopus.com/authid/detail.uri?authorId=57189099987), [Parhizkar, F.](https://www.scopus.com/authid/detail.uri?authorId=56557060100), [Ghaedi, E.](https://www.scopus.com/authid/detail.uri?authorId=57808260500), ...[Miahipour, A.](https://www.scopus.com/authid/detail.uri?authorId=55497861400), [Yousefi, M.](https://www.scopus.com/authid/detail.uri?authorId=16235087000) A comprehensive evaluation of the immune system response and type-I Interferon signaling pathway in hospitalized COVID-19 patients. [Cell Communication and Signalingthis link is disabled](https://www.scopus.com/authid/detail.uri?authorId=23019793700#disabled), 2022, 20(1), 106.
	10. [Pishgahi, A.](https://www.scopus.com/authid/detail.uri?authorId=57195343261), [Zamani, M.](https://www.scopus.com/authid/detail.uri?authorId=57207963802), [Mehdizadeh, A.](https://www.scopus.com/authid/detail.uri?authorId=49861668800), ...[Pourabbas, B.](https://www.scopus.com/authid/detail.uri?authorId=17346826000), [Yousefi, M.](https://www.scopus.com/authid/detail.uri?authorId=16235087000) The therapeutic effects of autologous conditioned serum on knee osteoarthritis: an animal model. BMC Research Notes, 2022, 15(1), 277
	11. [Abbaszadeh, H.](https://www.scopus.com/authid/detail.uri?authorId=57209306756), [Ghorbani, F.](https://www.scopus.com/authid/detail.uri?authorId=57209607321), [Abbaspour-Aghdam, S.](https://www.scopus.com/authid/detail.uri?authorId=57204196359), ...**[Roshangar, L](https://www.scopus.com/authid/detail.uri?authorId=23019793700)**[.](https://www.scopus.com/authid/detail.uri?authorId=23019793700), [Ahmadi, M.](https://www.scopus.com/authid/detail.uri?authorId=56817894400) Chronic obstructive pulmonary disease and asthma: mesenchymal stem cells and their extracellular vesicles as potential therapeutic tools. [Stem Cell Research and Therapythis link is disabled](https://www.scopus.com/authid/detail.uri?authorId=23019793700#disabled), 2022, 13(1), 262.
	12. [Safari, B.](https://www.scopus.com/authid/detail.uri?authorId=55802578600), [Aghazadeh, M.](https://www.scopus.com/authid/detail.uri?authorId=55406887600), **[Roshangar, L](https://www.scopus.com/authid/detail.uri?authorId=23019793700)**[.](https://www.scopus.com/authid/detail.uri?authorId=23019793700), [Aghanejad, A.](https://www.scopus.com/authid/detail.uri?authorId=37063060300), [Davaran, S.](https://www.scopus.com/authid/detail.uri?authorId=6603349891). A bioactive porous scaffold containing collagen/ phosphorous-modified polycaprolactone for osteogenesis of adipose-derived mesenchymal stem cells. [European Polymer Journalthis link is disabled](https://www.scopus.com/authid/detail.uri?authorId=23019793700#disabled), 2022, 171, 111220.
	13. [Javadi, M.](https://www.scopus.com/authid/detail.uri?authorId=57222658638), [Rad, J.S.](https://www.scopus.com/authid/detail.uri?authorId=14619606500), [Farashah, M.S.G.](https://www.scopus.com/authid/detail.uri?authorId=57217136027), **[Roshangar, L](https://www.scopus.com/authid/detail.uri?authorId=23019793700)**[\*.](https://www.scopus.com/authid/detail.uri?authorId=23019793700) An Insight on the Role of Altered Function and Expression of Exosomes and MicroRNAs in Female Reproductive Diseases. [Reproductive Sciencesthis link is disabled](https://www.scopus.com/authid/detail.uri?authorId=23019793700#disabled), 2022, 29(5), pp. 1395–1407.
	14. [Hadisi, N.](https://www.scopus.com/authid/detail.uri?authorId=57732071200), [Abedi, H.](https://www.scopus.com/authid/detail.uri?authorId=57731817300), [Shokoohi, M.](https://www.scopus.com/authid/detail.uri?authorId=57195241381), ...[Zolfagharzadeh, A.](https://www.scopus.com/authid/detail.uri?authorId=57731817400), **[Roshangar, L\*](https://www.scopus.com/authid/detail.uri?authorId=23019793700)**[.](https://www.scopus.com/authid/detail.uri?authorId=23019793700) COVID-19 and Endocrine System: A Cross-Sectional Study on 60 Patients with Endocrine Abnormality. [Cell Journalthis link is disabled](https://www.scopus.com/authid/detail.uri?authorId=23019793700#disabled), 2022, 24(4), pp. 182–187.
	15. [Jahanbani, Y.](https://www.scopus.com/authid/detail.uri?authorId=57211963675), [Shafiee, S.](https://www.scopus.com/authid/detail.uri?authorId=57194003758), [Davaran, S.](https://www.scopus.com/authid/detail.uri?authorId=6603349891), Roshangar, L\* ...[Dolati, S.](https://www.scopus.com/authid/detail.uri?authorId=57163582900), [Yousefi, M.](https://www.scopus.com/authid/detail.uri?authorId=16235087000) Stem cells technology as a platform for generating reproductive system organoids and treatment of infertility-related diseases. [Cell Biology Internationalthis link is disabled](https://www.scopus.com/authid/detail.uri?authorId=23019793700#disabled), 2022, 46(4), pp. 512–522.
	16. [Malekpour, K.](https://www.scopus.com/authid/detail.uri?authorId=57539235500), [Hazrati, A.](https://www.scopus.com/authid/detail.uri?authorId=57539872500), [Zahar, M.](https://www.scopus.com/authid/detail.uri?authorId=57215008035), ...**[Roshangar, L](https://www.scopus.com/authid/detail.uri?authorId=23019793700)**[\*.](https://www.scopus.com/authid/detail.uri?authorId=23019793700), [Ahmadi, M.](https://www.scopus.com/authid/detail.uri?authorId=56817894400) The Potential Use of Mesenchymal Stem Cells and Their Derived Exosomes for Orthopedic Diseases Treatment. [Stem Cell Reviews and Reportsthis link is disabled](https://www.scopus.com/authid/detail.uri?authorId=23019793700#disabled), 2022, 18(3), pp. 933–951.
	17. [Sarvari, R.](https://www.scopus.com/authid/detail.uri?authorId=26032264700), [Keyhanvar, P.](https://www.scopus.com/authid/detail.uri?authorId=55378274400), [Agbolaghi, S.](https://www.scopus.com/authid/detail.uri?authorId=56051807500), ...[Hamedi, E.](https://www.scopus.com/authid/detail.uri?authorId=57484809900) **Roshangar, L**\*, [Nouri, M.](https://www.scopus.com/authid/detail.uri?authorId=55346031100) A comprehensive review on methods for promotion of mechanical features and biodegradation rate in amniotic membrane scaffolds. [Journal of Materials Science: Materials in Medicinethis link is disabled](https://www.scopus.com/authid/detail.uri?authorId=23019793700#disabled), 2022, 33(3), 32.
	18. [Safari, B.,](https://www.scopus.com/authid/detail.uri?authorId=55802578600) [Aghanejad, A.](https://www.scopus.com/authid/detail.uri?authorId=37063060300), [Kadkhoda, J.](https://www.scopus.com/authid/detail.uri?authorId=56990030100), **...[Roshangar, L\*.](https://www.scopus.com/authid/detail.uri?authorId=23019793700)**, [Davaran, S.](https://www.scopus.com/authid/detail.uri?authorId=6603349891) Biofunctional phosphorylated magnetic scaffold for bone tissue engineering. [Colloids and Surfaces B: Biointerfacesthis link is](https://www.scopus.com/authid/detail.uri?authorId=23019793700&disabled) [disabled,](https://www.scopus.com/authid/detail.uri?authorId=23019793700&disabled) 2022, 211, 112284.
	19. [Javadi, M.,](https://www.scopus.com/authid/detail.uri?authorId=57222658638) [Soleimani Rad, J.,](https://www.scopus.com/authid/detail.uri?authorId=14619606500) [Pashaiasl, M.,](https://www.scopus.com/authid/detail.uri?authorId=37034780700) [Farashah, M.S.G.,](https://www.scopus.com/authid/detail.uri?authorId=57217136027) [**Roshangar, L\***.](https://www.scopus.com/authid/detail.uri?authorId=23019793700) The effects of plasma- derived extracellular vesicles on cumulus expansion and oocyte maturation in mice. [Reproductive](https://www.scopus.com/authid/detail.uri?authorId=23019793700&disabled) [Biologythis link is disabled,](https://www.scopus.com/authid/detail.uri?authorId=23019793700&disabled) 2022, 22(1), 100593.
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