

## Curriculum Vitae

**Name:** Fakhrosadat

**Last name:** Sajjadian

**Marital Status:** Married

**Address:** Department of Radiology, Faculty of Paramedical, Tabriz University of Medical Sciences, Iran.

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### Educations:

**B.Sc** (۱۹۹۳-۱۹۹۷) Nursing, Faculty of nursing and midwifery, Shiraz University of Medical Science, Shiraz, Iran.

**M.Sc** (۲۰۰۲-۲۰۰۶) Anatomical Science, Faculty of Medicine, Ahvaz University of Medical Science, Ahvaz, Iran.

**Ph.D** (۲۰۰۹-۲۰۱۴) Anatomical Science, Faculty of Medicine, Tabriz University of Medical Science, Tabriz, Iran.

**Research Course** (۲۰۱۲) Immunohistochemical Techniques, cell and tissue culture approaches, western blot, LH- and FSH ELISA. karolinska institutet university, Stockholm, Sweden.

### Honors/Achievements:

- Scholarship from ministry of health science Iran for ۶ months complementary period of PhD in Karolinska Institutet university of Stockholm, Sweden.

**Academic Positions:**

Assistant Professor

**Teaching experiences:**

| Course                | University                 | Level                                     | Date        |
|-----------------------|----------------------------|-------------------------------------------|-------------|
| Anatomy and Histology | Ahvaz, Tabriz Universities | Medical, dentistry & Paramedical Students | (۲۰۰۴-۲۰۲۱) |

**Executive Responsibilities:**

- Educational Assistant, Department of Radiology (۲۰۱۵-۲۰۱۹)
- Deputy of Research and Technology, Department of Radiology (۲۰۱۹ so far)
- Responsible for the Talent Core School of Paramedical Sciences (۲۰۱۸ so far)

**Research Interest:**

- Cell biology and cancer
- Cell and Tissue Culture
- Assisted reproductive techniques (ART)

**Thesis title:**

***M.S.c. thesis title:*** Effects of leukemia inhibitory factor on sperm motility and vitality in infertile men with asthenospermi.

***Ph.D thesis title:*** Effects of BSO-induced stress oxidative on ultrastructure and histology of testis, testosterone secretion, semen parameters and sperm fertility in IVF condition in mice.

## Publications:

*Saki GH, Sajjadian F, Kalantar Mahdavi RA, Sobhani A.* The effects of LIF in different concentration on sperm motility and viability in infertile men with asthenospermi. Iranian anatomical science journal, No: ۴, spring ۲۰۰۶, ۱, ۱۱-۱۷

*Sajjadian F, Soleimani-Rad J, Roshangar L, Hemmati A, Nori M.* The effect of BSO-induced oxidative stress on ultrastructure of testis and sperm fertility in mice. Journal of Jokull, ۲۰۱۴; ۲(۶۴), IF: ۱, ۶

*Sajjadian F, Soleimani-Rad J, Roshangar L, Hemmati A, Nori M.* The effect of Buthionine Sulfoximine-induced oxidative stress on histologic feature of testis, testosterone secretion and semen parameters in mice. Accepted in Iranian Journal of Basic Medical Sciences, Manuscript I.D: ۱۳۲۱-IJBMS (R۱), ۲۰۱۴, IF: ۰, ۴

*Seyed Mostafa Ghavami SM, Abedinzadeh R, Sajjadian F.* Fetal cardiac rhabdomyoma: case report. Tehran University Med J (TUMJ), ۲۰۱۶ July; ۷۴(۴):۲۹۷-۳۰۲

*Seyed Mostafa Ghavami SM, Sajjadian F, Fariba Azabdaftari.* A rare case of intravesical foreign body (Nylon thread): case report. Razi Journal of Medical Sciences, ۲۰۱۷ March; ۲۴(۱۰۴): ۶۰-۶۳

*Sajjadian F, Seyed Mostafa Ghavami SM.* A rare case of foreign body: Foley catheter migration from the uterus to peritoneal cavity, perforating rectosigmoid colon and abscess formation. J Shahid Sadoughi Univ Med Sci, ۲۰۱۷; ۲۰(۱):۱-۱۰

Sepideh Iranmakani, Tohid Mortezaazadeh, *Fakhrossadat Sajjadian*, Mona Fazel Ghaziani, Ali Ghafari. A review of various modalities in breast imaging: technical aspects and clinical outcomes. Egyptian Journal of Radiology and Nuclear Medicine (۲۰۲۰) ۵۱:۵۷

Ramin Ghasemi Shayan , Maryam Oladghaffari, *Fakhrosadat Sajjadian*, Mona Fazel Ghaziyan. Image Quality and Dose Comparison of Single-Energy CT (SECT) and Dual-Energy CT (DECT). *Review Article*. Hindawi Radiology Research and Practice Volume ۲۰۲۰, Article ID ۱۴۰۳۹۵۷, ۱۱ pages

Neda Barzgar Barough· *Fakhrosadat Sajjadian* · Nazila Jalilzadeh · Hajar Shafaei· Kobra Velaei ۱. Understanding breast cancer heterogeneity through non-genetic heterogeneity. Review Article. Breast Cancer <https://doi.org/۱۰.۱۰۰۷/s۱۲۲۸۲-۰۲۱-۰۱۲۳۷-w>. ۱۲ October ۲۰۲۰ / Accepted: ۴ March ۲۰۲۱

Farzad Sattari Fard| Nazila Jalilzadeh | Amir Mehdizadeh |*Fakhrosadat Sajjadian* |

Kobra Velaei. Understanding and targeting anoikis in metastasis for cancer therapies.

Review Article Received: ۲۱ May ۲۰۲۲ | Revised: ۷ November ۲۰۲۲ | Accepted: ۱۵

November ۲۰۲۲ DOI: ۱۰.۱۰۰۲/cbin.۱۱۹۷۰

### **Ongoing Research Projects:**

۱- Therapy-induced senescence phenotype in co-cultured MCF-۷ cells with tumor fibroblast stromal cells.

۲-Impact of fibroblast cells on conversion molecular properties of luminal A and B subtypes in breast cancer

۳-The impact of tumor microenvironment on heterogeneity parameters and cancer stem cell phenotype in co-cultured MCF-۷ cells with fibroblast stromal cells

۴- Dendrimer Entrapped gold and iron oxide conjugated with methotrexate for targeted MRI/CT imaging modality and drug delivery to cell

۵- Study of the stearyl CoA desaturase ۱ specific inhibitor and omega-۳ fatty acids supplements on tumoral properties of breast cancer cell line MCF-۷

۶- Fibroblasts impact on gaining cancer stem cell surface markers in triple negative subtype of breast cancer in doxorubicin chemotherapy

۷- Fibroblast impact on expression of cancer stem cell genes in triple negative subtype of breast cancer in doxorubicin chemotherapy condition

۸- Evaluation of the effect of ultrasound scan parameters on the pattern of radiomics features changes.

۹- Impact of conditioned medium fibroblast cells on conversion molecular and morphological properties of luminal A and B subtypes in breast cancer

۱۰- The evaluation of relationship between spiritual health and anxiety in paramedical students of Tabriz University of Medical Sciences in ۲۰۲۰

۱۱- Reproducibility of automatic segmentation of Alzheimer's pateints hippocampal subfield by Freesurfer with MRI in different magnetic field strength

۱۲- Comparison of the effect of paracrine fibroblasts on molecular changes and cancer stem phenotypes in luminal and basal subtypes of breast cancer

۱۳- Co-culture of fibroblas impact on gaining basal subtype properties in luminal A and B breast cancer

#### **Conference presentations:**

**Sajjadian F., Saki GH., Kalantar Mahdavi RA., Sobhani A:**The effect of LIF on low motility sperms in men with asthenospermi. <sup>۸</sup><sup>th</sup> Royan international congress, Tehran, Iran, ۰۶-۰۷ September ۲۰۰۷.

**Sajjadian F., Saki GH., Kalantar Mahdavi RA., Sobhani A.**The effect of Leukemia inhibitory factor on Viability of sperm in infertile men. <sup>۰</sup><sup>th</sup> Asian- Pacific International Congress of Anatomy and <sup>۸</sup><sup>th</sup> Iranian Congress of Anatomical Sciences, Tehran, Iran, ۱۶-۱۹ May ۲۰۰۸.

**Sajjadian F, Soleimani-Rad J, Roshangar L, Hemmati A:** The effects of BSO-induced oxidative stress on testicular ultrastructure in mice. <sup>۱۰</sup><sup>th</sup> Iranian Anatomical Congress Guilan University of Medical Sciences, Rasht, Iran, ۹-۱۱ May ۲۰۱۲.

**Sajjadian F, Soleimani-Rad J, Roshangar L, Hemmati A.** The effects of BSO-induced oxidative stress on testicular histology in mice. <sup>۱۸</sup><sup>th</sup> National and <sup>۳</sup><sup>th</sup> International Congress on Reproductive Medicine. Tabriz University of Medical Sciences, Tabriz, Iran, ۱۸-۲۰ April ۲۰۱۲.

**Sajjadian F, Soleimani-Rad J, Roshangar L, Soleimani-R S:** The effects of BSO-induced oxidative stress on sperm fertility and ultrastructure of testis in mice. <sup>۱۷</sup><sup>th</sup> Royan International Congress on Reproductive Biomedicine, Tehran, Iran, ۳۱ August- ۲ September ۲۰۱۶.

**Sajjadian F**, Ghasemi Shayan R, , Hosseinpour B. The advent of Optical imaging and its indispensable role in detection of Breast Cancer. 1<sup>st</sup> International Tehran Breast Cancer Congress, Tehran, Iran, 23-25 October 2019

Ramin Ghasemi Shayan , **Fakhrosadat Sajjadian**. Contemporary issues confronting Cancer Chemoprevention Research and Drug Development. World Conference on Cancer Research and Drug Development (WC-CRDD) Asunción, Paraguay 1<sup>st</sup> - 14<sup>th</sup> Jun 2020

Ramin Ghasemi Shayan, **Fakhrosadat Sajjadian**, Mona Fazel Ghaziyani. Nanotechnology-Empowered Adaptable and Biocompatible Sum Up of Energy Poster Presentation. International 2<sup>nd</sup> Conference on Sustainable Energy and Energy Calculations (ICSEEC2020) 4-5 September 2020, Turkey

Ramin Ghasemi Shayan, **Fakhrosadat Sajjadian**, Kobra Valaei, Mona Fazel Ghaziyani. Sensitivity and specificity improvement for breast cancer detection by tumor-microenvironment multimodality molecular imaging. International Conference on Health and Medicine (ICHM-20) 1<sup>st</sup> FEBRUARY 2020 THANE

Ramin Ghasemi Shayan, **Fakhrosadat Sajjadian**, Mona Fazel Ghaziyani. Medication conveyance utilizing theranostic nano-structures via diagnostic imaging. International Conference on Medical & Health Science – ICMHS 14<sup>th</sup>-16<sup>th</sup> March, 2020, Kiev, Ukraine

Behnam Hosseinpour Jahani, **Fakhrosadat Sajjadian**, Ramin Ghasemi Shayan. The effect of mobile health technology on the level of physical activity of breast cancer patients. Second Conference On Information Technology And Health Promotion Centered On Cancer. 18-19 September 2019 Tehran, Iran

### Workshops:

Stem Cell Culture workshop, Tabriz University of Medical Sciences, 19-20 December 2013.

Search for Electronic Resources workshop, Tabriz University of Medical Sciences, ۱۲-۱۳ August ۲۰۱۵.

Systematic review and meta-analysis Basics workshop (meta-analysis), Tabriz University of Medical Sciences, ۲۵-۲۶ November ۲۰۱۵.

Reference Manager workshop, Tabriz University of Medical Sciences, ۲۹ July ۲۰۱۵.

Advanced Research workshop, Tabriz University of Medical Sciences, ۲۶-۲۷ July ۲۰۱۵.

Personal knowledge and empowerment of faculty workshop (political thought and principles of the Islamic Revolution ۲), Tabriz University of Medical Sciences, ۶-۷ february ۲۰۱۶.

English for Academic Purposes Workshop: Writing, Presenting Research Papers & Communication, Tabriz University of Medical Sciences, from ۱۱ December ۲۰۱۵ until ۱۰ January ۲۰۱۶.

Personal knowledge and empowerment of faculty workshop.  
( Epistemology ۲), Tabriz University of Medical Sciences, ۶-۸ September ۲۰۱۶.

Meta-analysis Basics workshop, Tabriz University of Medical Sciences, ۲۰ October ۲۰۱۶.

Poor attention to professional ethics, Tabriz University of Medical Sciences, ۱۳ December ۲۰۱۵

Personal knowledge and empowerment of faculty workshop.  
( Epistemology ۳), Tabriz University of Medical Sciences, ۹ February ۲۰۱۷

Extracurricular activities. Teachers' Thinking Office, Tabriz University of Medical Sciences, ۱۳ August ۲۰۱۷

Ethics Research Workshop in Publishing, Tabriz University of Medical Sciences, ۴ February ۲۰۱۷

Writing and publishing scientific articles, Tabriz University of Medical Sciences, ۲۳ January ۲۰۱۷

Review and review articles, Tabriz University of Medical Sciences, ۱۷ January ۲۰۱۷

Familiarity with resource management software, Tabriz University of Medical Sciences, ۹ July ۲۰۱۷

Selection of valid journals for publication of the article, Tabriz University of Medical Sciences, ۱۷ July ۲۰۱۷

Translation of knowledge, Tabriz University of Medical Sciences, ۲۲ June ۲۰۱۷

Extracurricular activities of professors, Tabriz University of Medical Sciences, ۱۹ October ۲۰۱۷

### **Experimental activities:**

- Tissue processing for transmission electron microscopy (TEM) and Light Microscope
- Immunohistochemical Techniques focusing on apoptosis, proliferation and steroidogenic markers, which were related to the spermatogenic process
- Organ cell culture approaches
- Western blot analysis technique
- Tunnel Staining
- In Vitro Fertilization (IVF)
- Real time- PCR
- MTT assay
- Flow cytometry

