

# In The Name of GOD

## Curriculum Vitae

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### ✓ **Personal details:**

Name: Fatemeh Asadi

Date of birth: Feb 17<sup>th</sup> 1990

City of birth: Rafsanjan

Address: Molecular medicine research center, Rafsanjan University of Medical Sciences, Rafsanjan, Iran

Email: [Fatemehasadi1428@gmail.com](mailto:Fatemehasadi1428@gmail.com), [Fatemehasadi1428@yahoo.com](mailto:Fatemehasadi1428@yahoo.com)

### ✓ **Education:**

2018: MSc. Clinical Biochemistry. (Rafsanjan University of Medical Sciences, Rafsanjan, Iran)

2014: BSc. Laboratories Sciences. (Rafsanjan University of Medical Sciences, Rafsanjan, Iran)

### ✓ **Awards:**

1<sup>st</sup>Rank, Achieving the highest GPA among all BSc classmates.

✓ **Technical skills/experience:**

- Cell culture, Colony formation assay, Biochemical assays for cell viability
- Stem cell isolation from different sources (Umbilical Cord, Bone Marrow, Adipose Tissue), Stem cell differentiation
- peripheral blood mononuclear cells isolation
- Flow Cytometry
- Karyotyping
- In vitro fertilization (IVF) in mice
- Animal Model Induction (EAE, Menopause)
- DNA and RNA extraction, PCR, Real time PCR, Gel electrophoresis
- Western blotting, Eliza
- Computer Sciences: word, excel, PowerPoint, Spss, Adobe illustrator

✓ **Meetings and Congresses**

- Poster presentation in “14<sup>th</sup> Congress on Stem Cell Biology and Technology” in 2018, Royan

-Participate in the Symposium on Premature Ovarian Failure, 2018, Royan

✓ **Workshops:**

- In vitro fertilization in mice, Shahid Sadoughi University of Medical Sciences
- Flow Cytometry, Rafsanjan University of Medical Sciences
- laboratory animals, Rafsanjan University of Medical Sciences
- Essay Writing, Rafsanjan University of Medical Sciences

✓ **Publications:**

1-Mesenchymal stem cells: The potential therapeutic cell therapy to reduce brain stroke side effects

**Journal of Stroke and Cerebrovascular Diseases. 2021**

2-Therapeutic effects of combination of platelet lysate and sulfasalazine administration in TNBS-induced colitis in rat.

**Biomedicine & Pharmacotherapy. 2020**

3-The effects of transplanted mesenchymal stem cells treated with 17- $\beta$  estradiol on experimental autoimmune encephalomyelitis

**Molecular biology reports. 2019**

4-Comparison of the effects of 17 $\beta$ -estradiol treated and untreated mesenchymal stem cells on ameliorating animal model of multiple sclerosis

**Iranian Journal of Basic Medical Sciences. 2018**

5-The Relationship between the Expression of Small Heat-Shock Proteins and Suppression of OCT4B1

**Journal of Kerman University of Medical Sciences. 2018**

6-OCT4B1 Suppression down Regulated BCL2 Gene Family Expression in Human Tumor Cell Lines

**International Journal of Cancer & Cellular Biology Research. 2017**

✓ **Accepted articles:**

1- Current status of stem cell therapy and nanofibrous scaffolds in cardiovascular tissue engineering

2- Plasma microRNAs (miR-146a, miR-103a, and miR-155) as potential biomarkers for Rheumatoid arthritis (RA) and disease activity in Iranian patients

✓ **Under review articles:**

1-Aqueous extract of *Achillea millefolium* significantly affect renewal and differentiation of mesenchymal stem cell in dose dependent

2-Effects of MRI on stemness properties of Wharton's jelly derived mesenchymal stem cells

✓ **Research Projects:**

1-Evaluation of expression of miRNAs targeting genes encoding BAFF and APRIL in chronic lymphocytic leukemia (CLL)

2-Study of the effects of conditioned medium (CM) and extracts of adipose-derived mesenchymal stem cell on proliferation, development and the expression of cancer-related genes in glioblastoma multiforme cell lines, U251 and U87

3-Expression of ACE2 receptor of COVID-19 on saliva and oral mucosa

4-Evaluation of 22bp deletion mutation (delta22 -174 to -196) in the promoter region of toll like receptor 2 in the chronic hepatitis B infected patients

- 5-Effects of conditioned medium (CM) and extracts of breast cancer cells lines MCF-7 and MDA-MB-231 on adipose-derived mesenchymal stem cell
- 6-Investigation of the karyotype status of dead embryos at Azadi's maternity hospital in Rafsanjan in 2019 – 2020
- 7-Study of therapeutic and protective effects of combination of mesenchymal stem cell and nabilone on animal model of inflammatory bowel disease (IBD)
- 8-Study of skin wound healing of camel small intestinal sub-mucosal layer and platelet lysate in animal wound model
- 9-The study of gene expression and polymorphisms of PADI4 gene in The study of gene expression and polymorphisms of PADI4 in Patients with Rheumatoid Arthritis Referring to Rheumatology Clinic of Rafsanjan in 2019
- 10-Investigation of the expression pattern changes of some effective MiRNAs in DNA methylation in Systemic Lupus Erythematosus (SLE) patients referring to Rafsanjan rheumatology clinic in 2019-2020
- 11-Evaluation of anticancer activity of capparitis extract on the survival of MCF7 breast cancer cell line
- 12-Investigation of the Pattern of Some Micro RNAs in Rheumatoid Arthritis Patients Referring to Rheumatology Clinic of Rafsanjan in 2019
- 13-The effect of aqueous extract of pistachio pericarp on the expression of some genes associated with telomerase activity in bone marrow-derived mesenchymal stem cells of old male rats
- 14-The effect of cell therapy using Mesenchymal Stem Cells (MSCs) and Royal Jelly on sensory-motor deficits and expression levels of various T lymphocyte clone transcription factors in mouse model of stroke

- 15-The effect of aqueous extract of pistachio pericarp on cell proliferation rate and the expression of some genes associated with telomerase activity in bone marrow-derived mesenchymal stem cells of old male rats
- 16-Effect of pistachio oil on some physiological indices (nervous system, reproduction, liver and bone) in an animal model of menopause
- 17-Study of the expression of some genes associated with telomerase activity and telomere length in human hepatoma (HepG2) and human breast cancer (MCF-7) cells treated by aqueous extract of pistachio pericarp
- 18-Effect of aqueous extract of pistachio pericarp on telomere length and telomerase activity in human hepatoma (HepG2) and human breast cancer (MCF-7) cells
- 19-Study of MRI effects on Oct-4, Sox-2 and Nanog genes expression in mesenchymal stem cells derived from amniotic fluid and umbilical cord
- 20-The serum expression of some microRNA profiles as the biological markers in the gastric cancer patients with the different stages
- 21-Comparison of therapeutic effects of lipid tissue derived mesenchymal stem cells (MSCs) with sulfasalazine in the animal model of ulcerative colitis
- 22-Evaluation of the C5a and C3a prior and post chemotherapy in patients suffering from acute myeloid leukemia
- 23-Study of frequency and type of Y chromosome microdeletions in infertile men referring to the Urology Clinic of Moradi Hospital in Rafsanjan city compared to fertile men. A case-control study
- 24-The effect of estrogen treated mesenchymal stem cells supernatant on the clinical symptoms and the expression of some genes involved in the immune responses in rats with experimental autoimmune encephalomyelitis

25-The effect of mesenchymal stem cells treated by estrogen on the clinical symptoms and the expression of some genes involved in rats with experimental autoimmune encephalomyelitis immune responses

26-Evaluation and comparison of the Communication apprehension among the students at Rafsanjan University of medical sciences

27-Study the effect of 17- $\beta$ esteradiol treated mesenchymal stem cells on disease severity and histopathological and immunological indices in experimental encephalomyelitis in male rats