



Current Position

Assistant Professor of Anatomical Sciences

Education

Grade	University	Country
B.Sc.	Radiological Technology (Medical Imaging), Kermanshah University of Medical Sciences, Kermanshah, IRAN, 2012	Iran
M.Sc.	Anatomical Sciences, Ilam University of Medical Sciences, Ilam, IRAN, 2015	Iran
Ph.D	Anatomical Sciences, Kermanshah University of Medical Sciences, Kermanshah, IRAN, 2023	Iran

CONTACT

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ADDITIONAL SKILLS And Research Interests

Medical Imaging Techniques

- Advanced CT-scan acquisition (Performance & Optimization)
- Advanced MRI acquisition (Performance & Protocol Setup)

Cell Culture & Molecular Biology

- Primary cell culture (Isolation, Maintenance, Expansion)
- Cell differentiation techniques (Induction & Characterization)
- ELISA (Enzyme-Linked Immunosorbent Assay)
- Flow cytometry (Sample Preparation & Data Acquisition)
- Real-time PCR (qPCR) (RNA Extraction, cDNA Synthesis, Amplification)
- Western blotting (Protein Extraction, Electrophoresis, Blotting)

Histology & Immunostaining

- Tissue processing & sectioning (Paraffin-Embedded)
- Histological staining methods (H&E, Special Stains)
- Immunohistochemistry (IHC) (Antigen Retrieval, Staining, Visualization)

Experimental Disease Models

- Spinal cord injury (SCI) model establishment (Surgical Induction & Validation)
- Alzheimer's disease (AD) model development (In Vivo Models)

Data Analysis & Bioinformatics

Statistical analysis (GraphPad Prism, SPSS, R) - **EndNote** (Reference Management & Citation) - **Image analysis** (ImageJ, Fiji) - **Flow cytometry data analysis** (FlowJo, FCS Express)

Thesis

1. **Master's Thesis Title:** Investigating the Effects of Olfactory Ensheathing Cell (OEC) Transplantation on Function Recovery and Axonal Regeneration in Acute and Delayed Phases of Spinal Cord Injury in Rat Models
2. **Ph.D. Thesis Title:** Investigating the Effects of Melatonin on the

Teachings

- Neuroanatomy (for G.P. international Medical students)
- Trunk anatomy (for G.P. international Medical students)
- General Anatomy (for B.Sc. Nursing, Laboratory Science, Public Health, operating room, and Anesthesiology students)
- General embryology (for B.Sc. Midwifery students)
- Histology and Embryology (for G.P. Medical students and Laboratory Science)

ScopusProfile

https://id.elsevier.com/settings/redirect?code=XuFaPXo4PclvaIP11OkVMYXf_g9VR3jT4HIYgMLU

Google scholar

https://scholar.google.com/citations?hl=en&view_op=list_works&gmla=ALUCkoVSjbU4CmZ3Uoc-iy6Qef1k8V9zWAZWL1gK5CZmRwPWdlCWAoz5qBynYBttyqORcu6nlr7sYnMvIIEsSRjuh6FUXn9Qs1eakzMKoSFG&user=FtaFmEEAAAJ

Scientific profiles

Research Gate

<https://www.researchgate.net/profile/Somayeh-Heidarizadi-2>

ORCID Page

<https://orcid.org/0000-0001-8934-7091>

Publication

1. Melatonin protects mouse type-A spermatogonial stem cells against oxidative stress via mitochondrial thioredoxin system.
2. Overview of biological effects of melatonin on testis: a review.
3. Effects of Transplanted Olfactory Ensheathing Cells on Functional Improvement and Axonal Regeneration in Acute and Delayed Spinal Cord Injury in Rats: A Comparative Study.
4. Evaluation of chondroitin sulfate and dermatan sulfate expression in glial scar to determine appropriate time of therapeutic interventions in contused rats” has been accepted for publication in Basic and Clinical Neuroscience.
5. Contrast Agents and Observing Patient Safety Programs in Radiology Departments in Kermanshah Province Hospitals in West in Iran.
6. The Effect of Silybinin on the Expression of Vascular Endothelial Growth Factor (VEGF) and Integrin -linked kinase (ILK) in the Olfactory Ensheathing Cells under Normal and High Glucose

Conditions.

7. Effect of olfactory ensheathing cells (OECs) transplantation on functional recovery in acute phase of spinal contused rats.

8. Functional recovery assessment of spinal cord contusion model in male rats without therapeutic interventions.

9.Determination of Spontaneous Locomotor Improvement in Rats with Spinal Cord Chronic Injury

10.Effects of Olfactory Ensheathed Cells Transplantation on Functional Recovery in Delayed Phase of Spinal cord in Injured Rat

Membership

Faculty Advisor School of Medicine, Ilam University of Medical Sciences (Current)
- Serve as academic advisor to medical students