

**Director of Anatomy department & Mentoring**

**Corresponding Address**

Department of Anatomy, Faculty of Medicine, Ilam University of Medical Sciences, Ilam, Iran.

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Marzidarvish@yahoo.com

**Dr. Marziyeh Darvishi**

Assistant professor of Ilam University of Medical Sciences

**Education background**

2010/ MS Anatomy. Shiraz University of Medical Sciences (SUMS)

2015/ PhD Anatomy. Tarbiat modares University

**Skills and Abilities**

Stereotaxic & Tracing of cells

Cell culture & Cell therapy

Cell differentiation & Generation of neural stem cell

Isolation of mesenchymal stem cells

Spinal cord injury (contusion)

Technique of evaluation functionality in cells

Western blot, PCR, PT-PCR

Immunohistology & Immunocytology

Fixation of cadaver

BBB TEST- EMG TEST

Cryosection

Histology of technique (Paraffin Section)

Transfection of gene (gene therapy)

Vector production & bacterial cultures



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**I. Personal Information:**

1. First Name: Marzieh

2. Surname: Darvishi

3. Date of Birth: October 17, 1982; Tehran , Iran

4. Nationality: Iranian

5. Marital status: single

6. Phone (Mobile):+98 09124025893

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**II. Academic Education**

* 2015/ PhD, Anatomy, Tarbiat Modares University, Tehran, Iran (Score = 18.5/20 Graduated with a first rank)
* 2010/ MS, Anatomy, Shiraz University of Medical Sciences (SUMS), Shiraz, Iran (Score = 17.5/20 Graduated with a first rank)

**Title of MSc. Thesis**

Study of Sexual dimorphism of Medial prefrontal cortex afferents from the Hippocampus and Amygdaloid complex in Rat

**Title of PhD. Thesis**

Combined treatment of spinal cord injury using transplantation of Motoneurons derived from adipose stem cells and adipose mesenchymal stem cell transfected with GDNF following valproic acid treatment

**Journal Papers**

|  |  |  |  |
| --- | --- | --- | --- |
| Title | Journal | Cite Score | year |
| Sexually Dimorphic Effect of Zonisamide on Behavioral ‎Locomotor Activity in a Rat Model of Parkinson's disease | International Journal of Pharmaceutical and Phytopharmacological Research | ISI | 2019 |
| Effect of Biocanin A in the Acute Phase of Diffuse Traumatic Brain Injury | International Journal of Pharmaceutical and Phytopharmacological Research | ISI | 2020 |
| Homing of Super Paramagnetic Iron Oxide Nanoparticles (SPIONs) Labeled Adipose-Derived Stem Cells by Magnetic Attraction in a Rat Model of Parkinson's Disease | [International Journal of Nanomedicine](https://rsf.research.ac.ir/Index.php?itemId=2933) | [7.1](https://rsf.research.ac.ir/Index.php?itemId=2933)Q1[ISI](http://mjl.clarivate.com/cgi-bin/jrnlst/jlresults.cgi?PC=MASTER&ISSN=2008-3866), [Scopus](https://www.scopus.com/sourceid/19700174628), [PubMed](https://www.ncbi.nlm.nih.gov/nlmcatalog/?term=2008-3866), [Embase](https://www.embase.com/search?sb=y&search_query='20083866':is) | 2020 |
| PuraMatrix hydrogel enhances the expression of motor neuron progenitor marker and improves adhesion and proliferation of motor neuron-like cells | [Iranian Journal of Basic Medical Sciences](https://rsf.research.ac.ir/Index.php?itemId=3074) | [3](https://rsf.research.ac.ir/Index.php?itemId=3074)Q3[ISI](http://mjl.clarivate.com/cgi-bin/jrnlst/jlresults.cgi?PC=MASTER&ISSN=2008-3866), [Scopus](https://www.scopus.com/sourceid/19700174628), [PubMed](https://www.ncbi.nlm.nih.gov/nlmcatalog/?term=2008-3866), [Embase](https://www.embase.com/search?sb=y&search_query='20083866':is) | 2020 |
| Anatomical indicators of the heart and coronary arteries: An anthropometric study | [Biomedical Research and Therapy](https://rsf.research.ac.ir/Index.php?itemId=769) | ISI | 2020 |
| Unilateral variations in divisions of left common Carotid Artery | Journal of Advanced Pharmacy Education & Research| Jan-Mar | Scopus | 2020 |
| Anatomical variations of the musculocutaneous and median nerves: A case report | [Folia medica](https://rsf.research.ac.ir/Index.php?itemId=8219) | pubmed | 2019 |
| Variations of anterior and posterior division of internal iliac artery: a systematic review and clinical implications | [Biomedical Research and Therapy](https://rsf.research.ac.ir/Index.php?itemId=769) | ISI | 2019 |
| An Overview of the Effects of Melatonin on Nervous System Diseases | [The Neuroscience Journal of Shefaye Khatam](https://rsf.research.ac.ir/Index.php?itemId=99444) | ISC | 2016 |
| A case report of malignant peripheral nerve sheath tumor of the breast | [Journal of Babol University of Medical Sciences](https://rsf.research.ac.ir/Index.php?itemId=3284) | [0.6](https://rsf.research.ac.ir/Index.php?itemId=3284)Q3 Scopus | 2018 |
| The frequency of tumors of the head and neck in a 10-year period in Ilam, Iran | Journal of Basic Research in Medical Sciences | ISC | 2016 |
| Evaluation of general dentists' knowledge about oral cancer in Ilam, Iran in 2016 | [Journal of Basic Research in Medical Sciences](https://rsf.research.ac.ir/Index.php?itemId=99450) | ISC | 2016 |
| Evaluation of Histopathologic Changes in Pulp and Follicle Tissues in Impacted Third Molar in Patients Under 40 Years of Age | Journal of Evolution of Medical and Dental Sciences |  | 2019 |
| A Case Report of Malignant Peripheral Nerve Sheath Tumor of the Breast | J BabolUniv Med | SCI | 2019 |
| Rapid progression of primary glioblastoma to the maxillofacial area in a 29-year-old woman | [World Journal of Dentistry](https://rsf.research.ac.ir/Index.php?itemId=27989) | [0.2](https://rsf.research.ac.ir/Index.php?itemId=27989)Q4 | 2018 |
| Role of the Cannabinoid System in the Limbic System | [The Neuroscience Journal of Shefaye Khatam](https://rsf.research.ac.ir/Index.php?itemId=99444) | SCI | 2018 |
| Motor neuron transdifferentiation of neural stem cell from adipose-derived stem cell characterized by differential gene expression | [Cellular and molecular neurobiology](https://rsf.research.ac.ir/Index.php?itemId=1139) | [7.2](https://rsf.research.ac.ir/Index.php?itemId=1139)Q2 | 2018 |
| The role of steroids on brain function | [The Neuroscience Journal of Shefaye Khatam](https://rsf.research.ac.ir/Index.php?itemId=99444) | SCI | 2017 |
| P 64: Micro-Rna Disorder and Multiple Sclerosis | [The Neuroscience Journal of Shefaye Khatam](https://rsf.research.ac.ir/Index.php?itemId=99444) | SCI | 2017 |
| Effect of Curcumin on Astrogliosis and Improvement of Behavioral Movement in Acute Phase of Spinal Cord Injury in a Contusion Model of Rat | [The Neuroscience Journal of Shefaye Khatam](https://rsf.research.ac.ir/Index.php?itemId=99444) | SCI | 2017 |
| Differentiation of Bone Marrow-Derived Mesenchymal Stem Cells into Neuron-Like Cells Affected by Extract of Ginger Officinale | [The Neuroscience Journal of Shefaye Khatam](https://rsf.research.ac.ir/Index.php?itemId=99444) | SCI | 2017 |
| Functional role of natural and synthetic scaffolds in tissue engineering of central nervous system | [The Neuroscience Journal of Shefaye Khatam](https://rsf.research.ac.ir/Index.php?itemId=99444) | SCI | 2018 |
| Neurological Alterations in Cognitive Impairment | [The Neuroscience Journal of Shefaye Khatam](https://rsf.research.ac.ir/Index.php?itemId=99444) | SCI | 2018 |
| Protective effect of a cAMP analogue on behavioral deficits and neuropathological changes in cuprizone model of demyelination | [Molecular neurobiology](https://rsf.research.ac.ir/Index.php?itemId=4509) | [8.4](https://rsf.research.ac.ir/Index.php?itemId=4509)Q1 | 2015 |
| Neurophysiological mechanism of sleep and wakefulness regulation | [The Neuroscience Journal of Shefaye Khatam](https://rsf.research.ac.ir/Index.php?itemId=99444) | SCI | 2015 |
| Cholinergic differentiation of neural stem cells generated from cell aggregates-derived from human bone marrow stromal cell | [Tissue Engineering and Regenerative Medicin](https://rsf.research.ac.ir/Index.php?itemId=5917) | [3.6](https://rsf.research.ac.ir/Index.php?itemId=5917)Q2 | 2015 |
| Effect of curcumin on the glial scar formation following acute spinal cord injury | [The Neuroscience Journal of Shefaye Khatam](https://rsf.research.ac.ir/Index.php?itemId=99444) | SCI | 2014 |
| Decreased GFAP expression and improved functional recovery in contused spinal cord of rats following valproic acid therapy | [Neurochemical research](https://rsf.research.ac.ir/Index.php?itemId=4629) | SCI | 2014 |
| Neurogenic differentiation of rat bone marrow stromal cells by the non toxic factors of bioactive substance as an inducer | [The Neuroscience Journal of Shefaye Khatam](https://rsf.research.ac.ir/Index.php?itemId=99444) | SCI | 2014 |
| P65: treatment of spinal cord injury using transplantation of adipose mesenchymal stem cells transfected with poly-L-lysine/DNA (GDNF)-super paramagnetic Iron oxide nanoparticles | [The Neuroscience Journal of Shefaye Khatam](https://rsf.research.ac.ir/Index.php?itemId=99444) | SCI | 2014 |
| P77: cell therapy approaches to enhancing neuro-regeneration after spinal cord injury: generation neural stem cells from neurosphere-derived adipose stem cells using bioactive … | [The Neuroscience Journal of Shefaye Khatam](https://rsf.research.ac.ir/Index.php?itemId=99444) | SCI | 2014 |
| P62: the effect of valproic acid therapy on the glial scar formation after acute spinal cord injury fallowing by motor vehicle traffic crashes | [The Neuroscience Journal of Shefaye Khatam](https://rsf.research.ac.ir/Index.php?itemId=99444) | SCI | 2014 |
| P53: The Use of Fluoro-Gold for Retrograde Tracing of Cell Injection after Spinal Cord Injury: Improves Axonal Growth after Transplantation of Cells | [The Neuroscience Journal of Shefaye Khatam](https://rsf.research.ac.ir/Index.php?itemId=99444) | SCI | 2014 |
| P41: Therapeutic Effect of Transplanting Neural Stem Cells Derived Bone Marrow Stromal Cells Using Bioactive Substance TNT, for Enhance Recovery from Spinal Cord Injury | [The Neuroscience Journal of Shefaye Khatam](https://rsf.research.ac.ir/Index.php?itemId=99444) | SCI | 2014 |
| P80: Imaging Action Potentials with Calcium Indicators Fura-4 in Motor Neuron Like Cells Derived Adipose Stem Cells | [The Neuroscience Journal of Shefaye Khatam](https://rsf.research.ac.ir/Index.php?itemId=99444) | SCI | 2014 |
| P78: Depakine Improve Axonal Growth In Vitro and In Vivo after Spinal Cord Injury | [The Neuroscience Journal of Shefaye Khatam](https://rsf.research.ac.ir/Index.php?itemId=99444) | SCI | 2014 |
| P64: Treatment of Spinal Cord Injury Using Transplantation of Motoneurons Derived from Adipose Stem Cells Following Histone Deacetylases Inhibitors Therapy in Acute Phase | [The Neuroscience Journal of Shefaye Khatam](https://rsf.research.ac.ir/Index.php?itemId=99444) | SCI | 2014 |
|  Evaluation of Histopathologic Changes in Pulp and Follicle Tissues in Impacted Third Molar in Patients Under 40 Years of Age |  J. Evolution Med. Dent. Sci | scopus | 2019 |
| P79: The Repair Effects of Histone Deacetylases Inhibitors on Improves Locomotion: In Vivo Evaluation with Electromyography (EMG) after Spinal Cord Injury | [The Neuroscience Journal of Shefaye Khatam](https://rsf.research.ac.ir/Index.php?itemId=99444) | SCI | 2014 |
| P67: Efficient Generation of Neurosphere with High Passages (57 Passages) from Adipose Derived Stem Cells (ADSCs) Using Bioactive Substance TNT, a Promising Protocol for … | [The Neuroscience Journal of Shefaye Khatam](https://rsf.research.ac.ir/Index.php?itemId=99444) | SCI | 2014 |
| P68: Combined Treatment of Spinal Cord Injury Using Transplantation of Motoneurons Derived Adipose Stem Cells and Adipose Mesenchymal Stem Cells Transfected with GDNF Following | [The Neuroscience Journal of Shefaye Khatam](https://rsf.research.ac.ir/Index.php?itemId=99444) | SCI | 2014 |
| P81: Evaluating the Function of Motoneuron-Like Cells Differentiated from Rat Adipose Derived Stem Cells through Voltage-Sensitive Dyes (Rh 795) and Investigating the Synaptic … | [The Neuroscience Journal of Shefaye Khatam](https://rsf.research.ac.ir/Index.php?itemId=99444) | SCI | 2014 |
| The Protective Effect of Human Chorionic Gonadotropin (hCG) on Quality of Spermatogenesis Following Forced Swimming Exercise in Adult Male Rats | [Folia medica](https://rsf.research.ac.ir/Index.php?itemId=8219) | pubmed | 2020 |
| Evaluation of Histopathological Changes of Oral Mucosa and Salivary Glands in Model of Demyelination (Multiple Sclerosis) in C57BL/6 Mouse | [The Neuroscience Journal of Shefaye Khatam](https://rsf.research.ac.ir/Index.php?itemId=99444) | SCI | 2014 |

**Presentations**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Congress | Field | Title | Date | Presentations |
| The 5th Asian PacificInternationalCongress ofAnatomy | Neurosciences | Lying anatomy(Brain ) | 16-19 may 2008 | poster |
| Neurosciences Congress2012 | Neurosciences and pharmacology | VPA suppress the progression of locomotion deficit in early phase of contused rat spinal cord | 7-8 NOV 2012 | poster |
| Neurosciences Congress2012 | Neurosciences and sten cells | Functional Motor Neuron Subtypes Generated from neurosphere drived adipose tissue | 7-8 NOV 2012 | poster |
| Neurosciences Congress2012 | Neurosciences and stem cells | Adipose-derived stem cells differentiate into a motoneuron cell phenotype | 7-8 NOV 2012 | oral |
| 21st international Iranian congress of physiology and pharmacology | Neurosciences physiology | VPA suppress the progression of locomotion deficit in early phase of contused rat spinal cord | 23-27 Agu2013 | poster |
| 21st international Iranian congress of physiology and pharmacology | Neurosciences and pharmacology | The effect of treatment of valproic acid on the glial scar formation | 23-27 Agu2013 | poster |
| Neurosciences Congress2013 | Neurosciences | Evaluation recovery of valproic acid on the gliosis formation after acute spinal cord injury | 18-20 Des 2013 | poster |
| Neurosciences Congress2013 | Neurosciences | The effects of valproic acid therapy on improves locomotion in vivo with assessed the H/M-reflex after spinal cord injury | 18-20 Des 2013 | oral |
| Neurosciences Congress2013 | Neurosciences | Valproic acid improves axonal growth of neurons in vivo after Spinal Cord Injury | 18-20 Des 2013 | poster |
| Neurosciences Congress2013 | Neurosciences | VPA suppress the progression of locomotion deficit in early phase of contused rat spinal cord | 18-20 Des 2013 | poster |
| 3 rd international road safety congress | Neurosciences | The Effect of Valproic Acid therapy On the Glial Scar Formation after Acute Spinal Cord Injury Fallowing by Motor Vehicle Traffic Crashes (MVTCS) | 18-19 Feb 2014 | poster |
| 3 rd international road safety congress | Neurosciences | Treatment of spinal cord injury using transplantation of Motoneurons derived from adipose stem cells following Histone deacetylases (HDAC) inhibitors therapy in acute phase | 18-19 Feb 2014 | poster |
| 3 rd international road safety congress | Neurosciences | Treatment of spinal cord injury using transplantation of adipose mesenchymal stem cells transfected with Poly-L-lysine/ DNA (GDNF) - Super paramagnetic Iron Oxide Nanoparticle (SPION) | 18-19 Feb 2014 | poster |
| 3 rd international road safety congress | Neurosciences | Combined treatment of spinal cord injury using transplantation of Motoneurons derived adipose stem cells and adipose mesenchymal stem cells transfected with GDNF following valproic acid treatment | 18-19 Feb 2014 | poster |
| 3 rd international road safety congress | Neurosciences | The use of fluoro-gold for retrograde tracing of cell injection after spinal cord injury: improves axonal growth after transplantation of cells | 18-19 Feb 2014 | poster |
| The 11th Iranian congress of anatomical sciences | Neurosciences | Combined treatment of spinal cord injury using transplantation of Motoneurons derived from adipose stem cells and adipose mesenchymal stem cell transfected with GDNF following valproic acid treatment | 19-21 Feb 2014 | poster |
| The 11th Iranian congress of anatomical sciences | Neurosciences | The use of fluoro-gold for retrograde tracing of cell injection after spinal cord injury using transplantation of adipose mesenchymal stem cell transfected with GDNF | 19-21 Feb 2014 | poster |
| The 11th Iranian congress of anatomical sciences | Neurosciences | Treatment of spinal cord injury using transplantation of Motoneurons derived from adipose stem cells following valproic acid treatment | 19-21 Feb 2014 | poster |
| 3 rd international road safety congress | Neurosciences | Cell therapy approaches to enhancing regeneration after spinal cord injury with generation neural stem cells from neurosphere –derived adipose stem cells using bioactive substance TNT | 18-19 Feb 2014 | poster |
| 3 rd international road safety congress | Neurosciences | Efficient generation of neurosphere with high passages (57 passages) from adipose derived stem cells (ADSCs) using Bioactive substance TNT،a promising protocol for multiple treatment modality | 18-19 Feb 2014 | poster |
| 3 rd international road safety congress | Neurosciences | Evaluating the function of motoneuron –like cells differentiated from rat adipose derived stem cells through voltage-sensitive dyes (RH 795) and investigating the synaptic vesicle recycling | 18-19 Feb 2014 | poster |
| The 11th Iranian congress of anatomical sciences | Neurosciences | The effect of treatment of valproic acid on the glial scar formation after acute spinal cord injury | 19-21 Feb 2014 | poster |
| The 11th Iranian congress of anatomical sciences | Neurosciences | The effects of valproic acid therapy on improves locomotion in vivo with assessed the H/M-reflex after spinal cord injury | 19-21 Feb 2014 | poster |
| The 11th Iranian congress of anatomical sciences | Neurosciences | Imaging Action Potentials with Calcium Indicators Fura -4 in motor neuron like cells derived adipose stem cells | 19-21 Feb 2014 | oral |
| The 11th Iranian congress of anatomical sciences | Neurosciences | Treatment of spinal cord injury using transplantation of adipose mesenchymal stem cell transfected with GDNF following valproic acid treatment | 19-21 Feb 2014 | poster |
| The 11th Iranian congress of anatomical sciences | Neurosciences | Transfection of adipose mesenchymal stem cells by Poly-L-lysine/ DNA (GDNF) - Super paramagnetic Iron Oxide Nanoparticle (SPION) in vitro | 19-21 Feb 2014 | poster |
| The 11th Iranian congress of anatomical sciences | Neurosciences | Anatomical analysis of right and left site medial prefrontal cortex neural afferents from the hippocampus in male rat: a retrograde tracing method | 19-21 Feb 2014 | poster |
| The 11th Iranian congress of anatomical sciences | Neurosciences | Valproic acid improves axonal growth of neurons in vivo after Spinal Cord Injury | 19-21 Feb 2014 | poster |
| The 11th Iranian congress of anatomical sciences | Neurosciences | Analysis of right and left site medial prefrontal cortex neural afferents from the hippocampus in female rat: a retrograde tracing method | 19-21 Feb 2014 | poster |
| The 11th Iranian congress of anatomical sciences | Neurosciences | Study of sexual dimorphism of medial prefrontal cortex neural afferents from the hippocampus in rat: a retrograde tracing method | 19-21 Feb 2014 | poster |
| The 11th Iranian congress of anatomical sciences | Neurosciences | Evaluation percentage of kisspeptin and dynorphin positive of medial prefrontal cortex neural afferents from the hippocampus complex in male and female rat | 19-21 Feb 2014 | poster |
| The 11th Iranian congress of anatomical sciences | Neurosciences | Imaging motor neuron like cell derived adipose drive stem cell (ADSCs) stimulation in vitro: voltage-sensitive dyes (RH 795) | 19-21 Feb 2014 | poster |
| 3 rd international road safety congress | Neurosciences | Imaging Action Potentials with Calcium Indicators Fura -4 in motor neuron like cells derived adipose stem cells. | 18-19 Feb 2014 | poster |
| 3 rd international road safety congress | Neurosciences | Depakine improves axonal growth of neurons in vitro and in vivo after Spinal Cord Injury | 18-19 Feb 2014 | poster |
| 3 rd international road safety congress | Neurosciences | The Repair Effects of Histone Deacetylases Inhibitors on Improves Locomotion: In Vivo Evaluation with EMG After Spinal Cord Injury | 18-19 Feb 2014 | poster |
| The 1st International Neuroinflammation Congressand 1st Student Festival of Neurosience | Shefa Neuroscience Research Center, Tehran, Iran, | Micro-Rna Disorder and Multiple Sclerosis | 11-13 April, 2017 | poster |
| Neurosciences Congress2013 |  | Effect of Biochanin A on Improving Memory and Motor Behavior of Male Rat Model of diffuse traumatic brain injury (DTBI) in Acute Phase | 12 December  | 2018 |
| Neurosciences Congress2013 |  | The Use of Zonisamide in males and females of rat’s models of Parkinson's disease | 12 December  | 2018 |
| Thirteenth Iranian Congress of Anatomy Sciences | Hamedan University of Medical Sciences | A Study of Sexual Dimorphism of the Use of Zonisamide in Parkinson's disease | 2018-10-17 | 2018-10-17 |
| Thirteenth Iranian Congress of Anatomy Sciences | Hamedan University of Medical Sciences | The effect of treatment of valproic acid on the glial scar formation in Model of Demyelination (Multiple sclerosis) in C57BL/6 mice | 2018-10-17 | 2018-10-17 |

Thesis

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| --- | --- |
| **Title**  | **year** |
| Protective Effect of a valproic acid on Behavioral Deficits and Neuropathological Changes in Model of Demyelination (Multiple sclerosis) in C57BL/6 mice | Ilam University of Medical Sciences  |
| Sexually Dimorphic Effect of Zonisamid on Astrogliosis and Behavioral movement in Rat Model of Parkinson's Disease with Neurotoxin of 6-Hydroxydopamine : A Histological and Behavioral Analysis | Ilam University of Medical Sciences  |
| Direct differentiation of bone marrow-derived mesenchymal stem cells into neuron-like cells under induction of curcumin | Islamic Azad UniversityQom Branch |
| Combined Treatment of Spinal Cord Injury Using Transplantation of Neural Stem Cell Derived from Adipose Mesenchymal Stem Cell Following Curcumin Treatment | Islamic Azad UniversityQom Branch |
| Comparative Study of the Neuroprotective Potential of Phytoestrogen Biochanin A Following Acute and subacute Phase of Diffuse Traumatic Brain Injury (DTBI) in Male And Female of Rats | Ilam University of Medical Sciences  |
| Differentiation of bone marrow-derived stem cells into neuron-like cells affected by extract of Zingiber Officinale | Islamic Azad UniversityQom Branch |
| The effect of curcumin on neuronal induction of adipose tissue-derived mesenchymal cells and their differentiation into neurons by neurosphere production technique | Islamic Azad UniversityQom Branch |
| Evaluation of coronic effect of biotin on the Model of Demyelination (Multiple Sclerosis) in ovariectomized mice | Ilam University of Medical Sciences  |
| Evaluation of Histopathological Changes of Oral Mucosa and salivary glands in Model of Demyelination (Multiple Sclerosis) in C57BL/6 Mouse | Faculty of Dentistry, Ilam University of Medical Sciences  |
| Estimation of age, sex and height by measuring the anthropometric radiographic indices of the mandible in 20- to 50-year-olds of Iranian descent | Faculty of Dentistry, Ilam University of Medical Sciences  |

Teaching Experiences

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| --- |
| Field |
| neuroanatomy | Ilam University of Medical Sciences  |
| Anatomy thorax , abdomen , pelvis | Ilam University of Medical Sciences  |
| Anatomy upper and lower limb | Ilam Shiraz University of Medical Sciences  |
| Anatomy neck and head  | Ilam University of Medical Sciences  |
| Histology | Ilam Shiraz University of Medical Sciences  |
| Microanatomy | Ilam University of Medical Sciences  |
| Embryology | Ilam University of Medical Sciences  |

**Book**

1. Central Nervous System Disorders And Stem Cell Therapy (2014)
2. Pathology and Treatment of Multiple Sclerosis (2014)
3. Biology of Astrocytes in Neurodegeneration (2015)
4. Multiple sclerosis (2015)
5. General histology for Medical Students (2017)
6. Specific Histology for Medical Students(2017)
7. Oral histology (2018)
8. Pathology for Medical Students (2019)
9. Skull anatomy (2019)
10. histology for Medical Students (2020. 2th)

**Workshops**

2-4 Oct 2013 introductions to functional and structural neuroimaging with FSL, Tehran, Iran

2008 Cleaning is an essential element of contamination control Shiraz University, Shiraz

1-3 oct ,2014 Acceptance and commitment therapy(ACT) .2 international anxiety congress shafa neuroscience research center

1-3 oct ,2014 children and anxiety .2 international anxiety congress shafa neuroscience research center

1-3 oct ,2014 PTSD and war .2 international anxiety congress shafa neuroscience research center

1-3 oct ,2014 clinical training :transdiagnostic group CBT for anxiety disorders .2 international anxiety congress shafa neuroscience research center

1-3 oct ,2014 PTSD and disorders .2 international anxiety congress shafa neuroscience research center

Meta-analysis in Ilam Shiraz University of Medical Sciences(2017)

**Skills**

1. Stereotaxic (Parkinson, stroke, epilepsy model)
2. Tracing of neural cells (HRP – FG- PKH -DiI)
3. Cell culture
4. Cell differentiation (astrocyte , cholinergic , gaba and motoneuron )
5. Osteocyte ,chondrocyte and adipocyte differentiation
6. Generation of neural stem cell
7. Isolation of adipose mesenchymal stem cell
8. Isolation of bone marrow stromal cell
9. Cell injection and transplantation
10. Spinal cord injury (contusion)
11. Histology of technique (staining,…)
12. Technique of evaluation functionality in cells
13. Functionality test,FM143
14. Technique of Fulo-4
15. Technique of Fura-2
16. Western blot
17. MACS
18. SDS page
19. Immionocytology
20. Fixation of cadaver
21. BBB TEST
22. Paraffin Section
23. Set up and perform of immunocytochemistry on neurosphere in floating format
24. Set up and perform of differentiation of neurosphere and neural stem cells to rosette cells
25. Bone marrow stromal stem cells (BMSCs) culture
26. Adipose derived stem cells (ADSCs) culture
27. Differentiation of BMSCs and ADSCs to neurosphere and neural stem cells
28. Differentiation of adipose derived stem cells to motoneuron like cell
29. Differentiation of neurosphere and neural stem cells to motoneuron like cells
30. Gene therapy in rat
31. Polymerase chain reaction (PCR )
32. Real time PCR
33. Schwann cell culture
34. Microsurgery
35. Electromyography (EMG)
36. Function MRI
37. Immunohistochemistery
38. Light microscope , invert microscope , fluorescent microscope
39. Rotary microtome
40. Cryosection
41. Nanoparticle transfection
42. Microsoft office (power point, word, excel)
43. Transfection of gene( gene therapy) INCLUDING:
* Vector production
* bacterial cultures
* Prepare the cells for vector --- competence
* Transformed them with the corresponding vector
* [The bacteria cultures of transformed](file:///C%3A%5CUsers%5CHP%5CAppData%5CRoaming%5CMicrosoft%5CWord%5Ctransform.pptx)
* Single clone in culture medium containing antibiotic ampicillin
* A single clone The bacteria culture in medium
* [Purification of Vector](file:///C%3A%5CUsers%5CHP%5CAppData%5CRoaming%5CMicrosoft%5CWord%5Cplasmid%20purification.pptx)
* Authentication the Vector with [PCR – Digestion-sequencing](file:///C%3A%5CUsers%5CHP%5CAppData%5CRoaming%5CMicrosoft%5CWord%5CPCR%20%E2%80%93%20Digestion-sequencing.pptx)
* Primer design and PCR
* Ligation and subcloning
* Authentication the Vector with PCR – Digestion-sequencing
* ADSC transfected
* Stable with hygromycinB
1. Open filed (rat and mouse)
2. Morris water maze
3. Foot print test
4. Parkinson model of rat
5. TBI model of rat
6. Multiple sclerosis model of rat
7. Nano particle labeling