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EDUCATION:

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Post Graduate Degree Ph.D. Anatomy (histology and Embryology),	Shahid Beheshti University of Medical Sciences.	Tehran	Start/End Date
Undergraduate Degree M.Sc. Anatomy (histology and Embryology),	Shahid Beheshti University of Medical Sciences	Tehran	Start/End Date
B.Sc. Radiology,	Mashhad University of Medical Sciences	Mashhad	Start/End Date

PROFESSIONAL MEMBERSHIP:

2017-2023 in charge of Education Development Center (EDO)

2016-2017 Education Development Center (EDO), *Member*

2006-2016 Iranian anatomical society, *Member*

PUBLICATIONS:

Journal Papers[1-68]:

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1. Amini, A., Farzin, M., Hajihosseini, M. and Bayat, M., 2023. Adipose-derived Stem Cells Improving Inflammatory and Proliferative Responses in an Infected and Ischemic Ulcer Model in Type 1 Diabetic Rats: Insights Into Bacterial Count, Stereological Parameters, microRNA-21, and FGF2 Regulation. *Archives of Clinical Infectious Diseases*, 18(1).
2. Amini A, Chien S, Bayat M. Effectiveness of preconditioned adipose-derived mesenchymal stem cells with photobiomodulation for the treatment of diabetic foot ulcers: a systematic review. *Lasers in Medical Science*. 2022 Apr 1:1-1.

3. Amini A, Chien S, Bayat M. Potential of stem cells for treating infected Diabetic Foot Wounds and Ulcers: a systematic review. *Molecular Biology Reports*. 2022 Nov;49(11):10925-34.
4. Amini A, Soleimani H, Rezaei F, Ghoreishi SK, Chien S, Bayat M. The combined effect of photobiomodulation and curcumin on acute skin wound healing in rats. *Journal of Lasers in Medical Sciences*. 2021;12.
5. Namvarpour Z, Afsordeh K, Amini A, Fathabady FF. Alpha lipoic acid ameliorates detrimental effects of maternal lipopolysaccharides exposure on prefrontal white matter in adult male offspring rats. *Journal of Chemical Neuroanatomy*. 2021 Dec 1;118:102038.
6. Soleimani H, Amini A, Abdollahifar MA, Norouzian M, Kouhkheil R, Mostafavinia A, Ghoreishi SK, Bayat S, Chien S, Bayat M. Combined effects of photobiomodulation and curcumin on mast cells and wound strength in wound healing of streptozotocin-induced diabetes in rats. *Lasers in Medical Science*. 2021 Mar;36:375-86.
7. Ardeshrzadeh, Ahmadreza, et al. "The combined use of photobiomodulation and curcumin-loaded iron oxide nanoparticles significantly improved wound healing in diabetic rats compared to either treatment alone." *Lasers in Medical Science* 37.9 (2022): 3601-3611.
8. Hekmat, M., Ahmadi, H., Baniasadi, F., Ashtari, B., Naserzadeh, P., Mirzaei, M., Omidi, H., Mostafavinia, A., Amini, A., Hamblin, M.R. and Chien, S., 2023. Combined Use of Photobiomodulation and Curcumin Loaded Iron Oxide Nanoparticles Significantly Improved Wound Healing in Diabetic Rats Compared to Either Treatment Alone. *Journal of Lasers in Medical Sciences*, 14, pp.e18-e18.
9. Moravej FG, Amini A, Masteri Farahani R, Mohammadi-Yeganeh S, Mostafavinia A, Ahmadi H, Omidi H, Rezaei F, Gachkar L, Hamblin MR, Chien S. Photobiomodulation, alone or combined with adipose-derived stem cells, reduces inflammation by modulation of microRNA-146a and interleukin-1 β in a delayed-healing infected wound in diabetic rats. *Lasers in Medical Science*. 2023 May 27;38(1):129.
10. Omidi H, Sohrabi K, Amini A, Fathabady FF, Mostafavinia A, Ahmadi H, Mirzaei M, Moravej FG, Asghari M, Rezaei F, Gachkar L. Application of combined photobiomodulation and curcumin-loaded iron oxide nanoparticles considerably enhanced repair in an infected, delayed-repair wound model in diabetic rats compared to either treatment alone. *Photochemical & Photobiological Sciences*. 2023 Apr 11:1-7.
11. Amini A, Moravej FG, Mostafavinia A, Ahmadi H, Chien S, Bayat M. Photobiomodulation Therapy Improves Inflammatory Responses by Modifying Stereological Parameters, microRNA-21 and FGF2 Expression. *Journal of Lasers in Medical Sciences*. 2023;14:e16-.
12. Fallahi F, Mostafavinia A, Shalmani LM, Amini A, Ahmadi H, Omidi H, Hajihosseintehrani M, Bayat S, Hamblin MR, Chien S, Bayat M. Effects of photobiomodulation on mitochondrial function in diabetic adipose-derived stem cells in vitro. *Spectrochimica Acta Part A: Molecular and Biomolecular Spectroscopy*. 2023 Jan 15;285:121835.

13. Nabavi Zadeh F, Nazari M, Amini A, Adeli S, Barzegar Behrooz A, Fahanik Babaei J. Pre-and post-treatment of α -Tocopherol on cognitive, synaptic plasticity, and mitochondrial disorders of the hippocampus in icv-streptozotocin-induced sporadic Alzheimer's-like disease in male Wistar rat. *Frontiers in Neuroscience*. 2023 Apr 20;17:1073369.
14. Najafi F, Ahmadi H, Maghsoumi A, Huma K, Amini A, Azimi L, Karimi A, Bayat M, Naseri N. Size-dependent molecular interaction of nontraditional 2D antibiotics with *Staphylococcus aureus*. *Biomedical Materials*. 2022 Dec 5;18(1):015013.
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17. Nasiry D, Khalatbary AR, Abdollahifar MA, Amini A, Bayat M, Noori A, Piryaeei A. Engraftment of bioengineered three-dimensional scaffold from human amniotic membrane-derived extracellular matrix accelerates ischemic diabetic wound healing. *Archives of Dermatological Research*. 2021 Sep;313(7):567-82.
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19. Bagheri Tadi F, Noori Moughehi SM, Mostafavinia A, Moheghi A, Amini A, Rezaei F, Chien S, Bayat M. Photobiomodulation isolated or associated with adipose-derived stem cells allograft improves inflammatory and oxidative parameters in the delayed-healing wound in streptozotocin-induced diabetic rats. *Lasers in Medical Science*. 2022 Oct;37(8):3297-308.
20. Mohebbi H, Siasi E, Khosravipour A, Asghari M, Amini A, Mostafavinia A, Bayat M. MicroRNAs-26 and related osteogenic target genes could play pivotal roles in Photobiomodulation and adipose-derived stem cells-based healing of critical size foot defects in the rat model.
21. Namvarpour Z, Ranaei E, Amini A, Roudafshani Z, Fahanik-Babaei J. Effects of prenatal exposure to inflammation coupled with prepubertal stress on prefrontal white matter structure and related molecules in adult mouse offspring. *Metabolic Brain Disease*. 2022 Jun;37(5):1655-68.
22. Khosravipour A, Mostafavinia A, Amini A, Gazor R, Zare F, Fallahnezhad S, Rezaei F, Asgari M, Mohammadian F, Mohsenifar Z, Chien S. Different protocols of combined application of photobiomodulation in vitro and in vivo

- plus adipose-derived stem cells improve the healing of bones in critical size defects in rat models. *Journal of Lasers in Medical Sciences*. 2022;13.
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 - 50 Amini, A., et al., Stereological and gene expression examinations on the combined effects of photobiomodulation and curcumin on wound healing in type one diabetic rats. *Journal of cellular biochemistry*, 2019. **120**(10): p. 17994-18004.
 - 51 Teimouri, M., et al., Neuroanatomical changes of the medial prefrontal cortex of male pups of Wistar rat after prenatal and postnatal noise stress. *Acta Histochemica*, 2020. **122**(6): p. 151589.
 - 52 Khosravipour, A., et al., Preconditioning adipose-derived stem cells with photobiomodulation significantly increased bone healing in a critical size femoral defect in rats. *Biochemical and Biophysical Research Communications*, 2020.
 - 53 Asgari, M., et al., Combined therapy of adipose-derived stem cells and photobiomodulation on accelerated bone healing of a critical size defect in an osteoporotic rat model. *Biochemical and Biophysical Research Communications*, 2020. **530**(1): p. 173-180.
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110. ایجاد یک مدل تجربی آب مروارید در جنین جوجه، محمد، ا.، et al.,
111. م.ز. مهدی، اثرات تراژونیک کادمیوم بر میتوکندری و هسته سلول، عبدالله، ا.، ف. ابوالفضل، TEM. های مخچه در موش صحرائی با استفاده از

BOOKS:

Dabbagh, Ali, Amini Abdollah, et al. "Cardiovascular System Embryology and Development." *Congenital Heart Disease in Pediatric and Adult Patients*. Springer International Publishing, 2017. 11-64.

Teaching

- 1-Present Courses On Neuroanatomy, Head And Neck, Trunk And Limbs Anatomy **For international Medical And paramedical Students(MBBS)**, Shahid Beheshti University Of Medical Sciences., Tehran , Iran
- 2-Present Courses On histology and embryology **For international Medical And paramedical Students(MBBS)**, Shahid Beheshti University Of Medical Sciences., Tehran , Iran
- 3-Present Courses On Neuroanatomy, Head And Neck, Trunk And Limbs Anatomy For Medical And Dental Students, Shahid Beheshti University Of Medical Sciences., Tehran , Iran
- 4-Present Courses On Head And Neck For Oral And Maxillofacial Surgeons Students, Shahid Beheshti University Of Medical Sciences., Tehran , Iran
- 5-Present Courses On Head And Neck For Oral And Maxillofacial Surgeons Students, Shahid Beheshti University Of Medical Sciences., Tehran , Iran
- 6-Present Courses On Radiological Anatomy For Phd Students, , Shahid Beheshti University Of Medical Sciences., Tehran , Iran
- 7-Present Courses On General Anatomy For Pharmacology Students, Shahid Beheshti University Of Medical Sciences., Tehran , Iran
- 8-Present Courses On General Anatomy For The Students Of Midwifery, Nursing, Operation Technicians, Radiography, Environmental Health, General Health And Other Paramedical Branches, Shahid Beheshti University Of Medical Sciences., Tehran , Iran
- 9-Present Courses On General Anatomy For The Students Of Midwifery, Nursing, Operation Technicians, Radiography, Environmental Health, General Health And Other Paramedical Branches, Varamin University Of Medical Science, Iran
- 10- Present Courses On Head And Neck For Oral And Maxillofacial Surgeons Students, Shahid Beheshti University Of Medical Sciences., Tehran , Iran

Research Interests:

1-Histomorphometry & stereology

2-TEM

3-PROTEOMICS'

4- Clinical Neuroscience Research

5-Etiological Studies

6-Stem cell (Cell Culture)

Workshops(برگزاری چندین کارگاه برای (مدرس) EDO

دهمین کنگره سراسری علوم تشریحی ایران	1391/02/20	همایش و کنگره
نورواناتومی بالینی با رویکرد علوم اعصاب شناختی	1397/06/22	کارگاه
نورواناتومی بالینی با رویکرد علوم اعصاب شناختی 2	1397/07/04	کارگاه
نورواناتومی بالینی به همراه تفسیر MRI	1398/02/06	کنفرانس علمی یک روزه
و (QEEG)الکتروانسفالوگرافی کمی کاربرد آن در تشخیص و درمان بیماریها	1398/03/24	کنفرانس علمی یک روزه
تشریح کاربردی مغز با رویکرد علوم اعصاب شناختی	1398/03/23	کنفرانس علمی یک روزه
توانبخشی شناختی توجه	1398/04/07	کنفرانس علمی یک روزه
توانبخشی شناختی اختلالات طیف اتیسم	1398/04/08	کنفرانس علمی یک روزه
فارماکولوژی بالینی در توانبخشی	1398/05/10	سمینار

Research Techniques:

- 1- Microanatomy Techniques (Tissue preparation, H&E, Cresyl violet, Golgi, Azan staining, Frozen section, Transmission Electron Microscopy, fluorescent microscope)
- 2-Proteomics' One And Two Way Electrophoresis.
- 3-(SDS-PAGE and Western. Blot)
- 4-Behavioral test (Social And Behavioral Test)
- 5-Cell culture
- 6- Immunohistochemistry
- 7-Apoptosis assay (TUNEL)
- 8-Medical Imaging (CT scan, MRI)
- 9-PCR Techniques

LANGUAGE PROFICIENCY

- 1.Persian:** Mother tongue
- 2.English:** (Reading/Writing/Speaking/listening) fluent (ILTS)
- 3.**Teaching for International Students

Research Projects

- 1- Evaluation of low level laser therapy and alendronate on osteogenic differentiation of bone marrow mesenchymal stem cells in an experimental model of osteoporosis in female rats
- 2- Histological and BDNF, SYNAPSIN1 and GAP-43 gene expression study on cerebellum tissue of infants rat whom parents exposed to thiomerosal
- 3- Neuroprotective effects of alpha lipoic acid on neurological and behavioral disorders caused by thimerosal in prefrontal cortex of rats
- 4- The effects of prenatal and postnatal exposure to traffic noise stress on prefrontal cortex changes in the rat
- 5- A survey of conductive nanofibrous scaffold effects on sciatic nerve repair following axotomy in rats
- 6- Evaluation of the effect of optimal culture medium derived from sertoli cells in the testes on azoospermic mice

- 7- Evaluation of effect of sertoli cells on spermatogenesis and tissue changes in the testes of azoospermic mice induce by busulfan
- 8- The effect of 80hz-pulsed low-level laser therapy on the healing of experimental partial osteotomy of tibia in healthy and type 1 diabetic female rats
- 9- Evaluation of the combined effects of low-level laser therapy and oxytocin on the healing of experimental fracture of femur in osteoporotic female mice
- 10- Of effect of low-level laser therapy on rankl ,runx2,and osteocalcin genes in the healing of experimental partial osteotomy of tibia in osteoporotic female rats
- 11- The effect of low level laser therapy on testes of type1diabetic rats
- 12- The effect of low level laser therapy on morphology and motility and quality of embryos of ivf in type 1 diabetic mice
- 13- Investigation on of p53 codon 72 polymorphism in patients with endometriosis
- 14- The study of vascular endothelial growth factor and fibroblast growth factor genes polymorphisms in patients with endometriosis
- 15- Evaluating of the effects of low – level laser therapy on gene expression of b-fgf , hif-1, and sdf-1, on wound healing process in a non – genetical model of type 2 diabetes mellitus in rats by reverse transcription pcr
- 16- Study of pentoxifylline administration effects on fracture healing of a complete osteotomy in an experimental model of osteoporosis by gene expression evaluating method
- 17- A study of the effects of low – level laser therapy on wound healing process in a non – genetic model of type 2 diabetes mellitus in rats
- 18- The combined effects of low-level laser therapy (λ 660 nm) and levothyroxine on system l amino acid transporters(lat1 and lat2 and 4f2) during wound healing process in the skin of hypothyroidism rat model
- 19- Evaluate the effect of low-level laser therapy on bone repair in hypothyroidism rats

- 20- The study of bax, caspase protein expretion in somatic cells derived using somatic cell nuclear transfer in comparison with the normal fertilization

