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EDUCATION

2016-2020- Tehran, Iran

Ph.D. of anatomical sciences

Shahid Beheshti University of Medical Sciences

Thesis: Combined therapy of Photobiomodulation and Demineralized Bone Matrix With Adipose-Derived Stem Cells on accelerated bone healing of a critical size defect in an osteoporotic rat model

Supervisor: Prof. mohammad bayat

2013-2016- Gilan, Iran

MSc. of anatomical Sciences

Guilan University of Medical Sciences

Thesis: Evaluation of Hepatoprotective Effect of Acantholimon Gilliati Eerial Part Methanolic Extract

Supervisors: Prof. Ardalan Pasdaran, Dr. Rouhollah Gazora

2005-2007- Tehran, Iran

BSc. of radiology

Iran University of Medical Sciences

PUBLICATIONS, PEER-REVIEWED

- Faghani M , **Asgari M**, Mesbah M. A Rare Variation in Branching Pattern of the Internal Iliac Artery: A Case Report. ASJ. 2014; 11 (2) :111-114
- Gazor R, **Asgari M**, Pasdaran A, Mohammadghasemi F, Nasiri E, and Atrkar Roushan Z. Evaluation of Hepatoprotective Effect of Acantholimon Gilliati Eerial Part Methanolic Extract. Iran J Pharm Res. 2017 Winter; 16(Suppl): 135–141.
- Khosravipour A , Amini A , Masteri Farahani R, Zare F, Mostafavinia A, Asgari M, Mohammadbeigi A, Rezaei F, Ghoreishi K, Chien S, and Bayat M. Preconditioning adipose-derived stem cells with photobiomodulation significantly increased bone healing in a critical size femoral defect in rats. Biochem Biophys Res Commun 2020 Oct 15;531(2):105-111. doi: 10.1016/j.bbrc.2020.07.048. Epub 2020 Aug 8.

PUBLICATIONS, PEER-REVIEWED

- Khosravipour A, Amini A, Farahani RM, Zare F, Mostafavinia A, Fallahnezhad S, Akbarzade S, Parvandi A, **Asgari M**, Mohammadbeigi A, Rezaei F, Ghoreishi SK, Chien S, Bayat M. Preconditioning adipose-derived stem cells with Commun. 2020 Oct 15;531(2):105-111. DOI: 10.1016/j.bbrc.2020.07.048. photobiomodulation significantly increased bone healing in a critical size femoral defect in rats. Biochem Biophys Res
- **Asgari M**, Gazor R, Abdollahifar M, Fadaei Fathabady F, Zare F, Norouziyan M, Amini A, Khosravipour A, Kiani P, Atashgah R, Rezaei F, Chien S, Hamblin MR, Bayat M. Combined therapy of adipose-derived stem cells and photobiomodulation on accelerated bone healing of a critical size defect in an osteoporotic rat model. Biochem Biophys Res Commun. 2020 Sep 10;530(1):173-180. doi: 10.1016/j.bbrc.2020.06.023. Epub 2020 Aug 12.
- Fatemeh Hejazi, Vahid Ebrahimi, Mehrdad **Asgary**, Abbas Piryaee, Mohammad Javad Fridoni, Ali Asghar Kermani, Fatemeh Zare, Mohammad-Amin Abdollahifar. Improved healing of critical-size femoral defect in osteoporosis rat models using 3D elastin/polycaprolactone/nHA scaffold in combination with mesenchymal stem cells. Journal of Materials Science: Materials in Medicine. (2021) 32:27
- Gazor R, **Asgari M**, Abdollahifar M.A, Kiani P, Zare F, Fathabady F.F, Norouziyan M, Amini A, Khosravipour A, Atashgah R.B, Kazemi M, Chien S and Bayat M. Simultaneous Treatment of Photobiomodulation and Demineralized Bone Matrix With AdiposeDerived Stem Cells Improve Bone Healing in an osteoporotic bone defect. Journal of Lasers in Medical Sciences, Vol. 12 (2021), 13 February 2021, Page e41
- Khosravipour A, Mostafavinia A, Amini A, Gazor R, Zare F, Fallahnezhad S, Rezaei F, **Asgari M**, Mohammadian F, Mohsenifar ZH, Chien S, Bayat M. 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. J Lasers Med Sci . 2022 Mar 5;13:e10. doi: 10.34172/jlms.2022.10. eCollection 2022.
- **Asgari M**, Abdollahifar MA, Salmani T, Khosravipour A, Mahmoudi Y, Baniasadi F, Hamblin MR, Abrahamse A, Chien S, Bayat M. Photobiomodulation and Stem Cell on Repair of Osteoporotic Bones. Photobiomodul Photomed Laser Surg. . 2022 Apr;40(4):261-272. doi: 10.1089/photob.2021.0127.

TECHNICAL SKILLS

Cellular Techniques	Histological and medical imaging Techniques	Animal-based	IT
Cell culture ●●●●○	Tissue processing ●●●●○	Handling ●●●●○	Data analysis (SPSS and Graph Pad Prism) ●●●●○
Stem cells isolation and primary cultures ●●●●○	CT scan report ●●●●○	Bone defect ●●●●○	Bibliographic database (EndNote, Mendeley) ●●●●○
Fluorescence and light microscopy ●●●●○	MRI report ●●●●○	ovariectomy rat model ●●●●○	Microsoft Office ●●●●○
MTT assay ●●●●○			Image J ●●●●○

PRESENTATIONS

- Asgari M, Gazor R, Abdollahifar M, Kiani P, Zare F, Fadaei Fathabady F, Norouzian M, Amini A, Khosravipour A, Atashgah R, Kazemi M, Chien S, Bayat M. Simultaneous treatment of photobiomodulation and a Hybrid graft of seeded human demineralized bone matrix with adipose-derived stem cells improve osteogenesis in an experimental model of critical-sized osteoporotic defect. E Poster Presented, 16th Royan International Virtual Congress on Stem Cells Biology and technology, Tehran, Iran, 5-6 Sept, 2020
- Bayat M, **Asgari M**, Abdollahifar MA, Moradi A, Zare F, KOKHEIL R, Gazor R, Ebrahimnia A, Shahnazary Z, Chien S. Photobiomodulation and mesenchymal stem cell-conditioned medium for the repair of experimental critical-size defects. Lasers Med Sci. 2024 Jun 18;39(1):158. doi: 10.1007/s10103-024-04109-9.
- Hejazi F, Zare F, **Asgari M**. Enhanced differentiation of mesenchymal stem cells in coral-incorporated PCL/elastin scaffold enables 3D defect healing in osteoporosis rat model. International Journal of Biological Macromolecules. October 2024, 134483. doi.org/10.1016/j.ijbiomac.2024.134483

TEACHING EXPERIENCE

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• Lecturer

Anatomy department of Guilan University of Medical Sciences

- Instructional delivery of Anatomy courses (viz. Cross sectional anatomy, Neuroanatomy; Head, Neck and Back; Trunk and Embryology; Upper and Lower Limbs; Cytology and Histology) to undergraduate medical, medical science and allied health science (viz. nursing, radiology, Midwifery, pharmacy, dental therapy) students
- Instructional delivery of Anatomy Research course to postgraduate medical science students in the honours year
- Instructional delivery of Dissection to postgraduate medical science students in the honours year

Jobs

- Radiographer, oral Radiology department, dentistry Faculty, Guilan University of Medical Sciences (2008-2013)
- Radiographer, Heshmat Hospital in Rasht City 2013 to 2014
- Radiographer, oral Radiology department, dentistry Faculty, Guilan University of Medical Sciences (2014-2021)