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CURRICULUM VITAE

Halimeh Amirazad

Assistant Professor of Medical Biotechnology

Endocrine Research Center

Tabriz University of Medical Science

Email: F_Amirazad@yahoo.com

EDUCATION

1-Ph.D. of Medical Biotechnology, 2022. Department of Medical Biotechnology, Faculty of Advanced Medical Science, Tabriz University of Medical Sciences, Tabriz, Iran.

2-M.Sc. in Physiology, 2009. Faculty of Natural Science, Tabriz University, Tabriz, Iran.

3- B.Sc. Biology, 2003. Faculty of Natural Science, Tabriz University, Tabriz, Iran.

LANGUAGES: English, Persian, and Turkish

PROFESSIONAL EXPERIENCES

Cell culture, MTT technique (determination of cell viability), Stem cell differentiation, Tissue Engineering, Tissue staining (hematoxylin & eosin, Alizarin red), scaffold designing, Isolation of genomic DNA/RNA, cDNA synthesis, PCR amplification, quantitative real-time PCR, primer designing, Flow cytometry, FTIR analysis, agarose and polyacrylamide gel electrophoresis, electrospinning (preparation of Nano fibrous scaffolds in tissue engineering), isolation and purification of ADSCs from adipose tissue in the enzymatic digestion.

COMPUTER SKILLS

Knowledge of computational and statistical analysis using software such as SPSS, and Graph Pad Prism.

UNIVERSITY TEACHING EXPERIENCE

- Rabe Rashid University, 2012-2022.
- PNU University of Mamagan, 2015-2020.
- PNU University of Hashtroud, 2014-2016.
- Agriculture Research, Education and Development Organization, Shahid Sardari Education Complex-East Azerbaijan 2014-2016.

PUBLICATIONS

Articles

1. Sevil Ghaffarzadeh Rad, Amir Bahrami, Jalil Houshyar, Nazila Farrin, Farzad Najafipour, Halimeh Amirazad. A case report of Tumor-Induced Osteomalacia (TIO) caused by central giant cell granuloma, *Bone Reports*, 2024
2. Halimeh Amirazad, Ali Baradar Khoshfetrat, Nosratollah Zarghami, A dual synergistic effect of titanium and curcumin co-embedded on extracellular matrix hydrogels of decellularized bone: Potential application in osteoblastic differentiation of adipose-derived mesenchymal stem cells. *Journal of biomaterials science, polymer, polymer edition*.
3. Halimeh Amirazad, Mehdi Dadashpour, Nosratollah Zarghami, Application of decellularized bone matrix as a bioscaffold in bone tissue engineering. *Journal of Biological Engineering*. 2022.
4. Soumayeh Amirsaadat, Halimeh Amirazad, Ramin Hashemihesar, Nosratollah Zarghami, an update on the effect of intra-articular intervention strategies using nanomaterials in osteoarthritis: Possible clinical application. *Front. Bioeng. Biotechnol.*, 16 February 2023
5. Naimeh Mesri Alamdari, Pardis Irandoost, Neda Roshanravan, Farzad Najafipour, Mohammadreza Vafa, Farnaz Farsi, Majid Mobasser, Amir Ali Mir Mazhari, Halimeh AmirAzad, Farzad Shidfar. Assessment of the anti-inflammatory and anti-glycemic properties of Royal Jelly and Tocotrienol-rich fraction in an experimental study: Does irisin mediate these effects? *Food Science & Nutrition*. 2024.
6. Alireza Ostadrahimi, Shonaz Ahmadikhatir, Halimeh Amirazad, Jamal EivaziZiaei, Mohammad AsghariJafarabadi, Abolfazl Barzeghari, Ali Esfahani, Nazila Farrin. Effect of combination of Beta Glucan and Lactobacillus rhamnosus HerizI on white blood cell counts and serum levels of IL-4 and IL-12 in women with breast cancer undergoing chemotherapy: A randomized double-blind placebo-controlled clinical trial. *Clinical Nutrition ESPEN*, 61:281-287. 2024 (2024-6-1).

7. Behnam Hashemi, Firouzi-Amandi Akram, Halimeh Amirazad, Mehdi Dadashpour, Milad Sheervalilou, Davood Nasrabadi, Majid Ahmadi, Roghayeh Sheervalilou, Mahdieh Ameri Shah Reza, Farhood Ghazi, Leila Roshangar.,Emerging importance of nanotechnology-based approaches to control the COVID-19 pandemic; focus on nanomedicine iterance in diagnosis and treatment of COVID-19 patients. *Journal of Drug Delivery Science and Technology*. 2021.
8. R. Hajiboland, F. Amirazad. Growth, photosynthesis and antioxidant defense system in Zn-deficient red cabbage plants. *Plant Soil Environ.*, 56, 2010 (5): 209–217
9. R. Hajiboland, H. Amirazad. Drought tolerance in Zn-deficient red cabbage (*Brassica oleracea* L. var. capitata f. rubra) plants. *Hort. Sci.*, (2010) 37: 88–98.
10. Roghieh Hajiboland, Fahimeh Amirazad. Photochemistry and gas exchange in cold conditions in Zn-deficient red cabbage (*Brassica oleracea* L. var. capitata f. rubra) plants. *Folia Hort.* 24/1 (2012): 3-11.
11. Ruqieh Haji Boland, Bahereh Pasbani, Halimah Amirazad. Effect of zinc deficiency on growth, pigments and photosynthesis of red cabbage (*Brassica oleracea* L. var. capitata f. rubra under different light intensities) .*Iranian Journal of Biology*. 2009.
12. Marhamat Mohammad Jafari, 2 Hormoz Ayromlou, halimeh Amirazad, Akbar Aliasgharzadeh. Thyroid autoimmunity in patients with Multiple Sclerosis Before and After Treatment. *Journal of research in clinical medicine*. 2023.
13. Halimeh Amirazad, Amir Bahrami, Haleh Darbandi, Mostafa Najafipour, Farzad Najafipour. A comprehensive review of the novel treatments of Acromegaly. *Journal of research in clinical medicine*. 2024.

BOOK

- Nanotechnology approaches in the treatment of skin cancers

B: CONGRESSES INTERNATIONAL

- An Overview of the Diagnosis, Treatment, and Follow-up of Acromegaly: A consensus review.
- Effects of Levothyroxine replacement therapy on insulin resistance in patients with untreated primary hypothyroidism.
- Endocrinopathies in nonalcoholic fatty liver disease: Mechanistic insights to sex hormones.
- A dual synergistic effect of titanium and curcumin co-embedded on extracellular matrix hydrogels of decellularized bone: Potential application in osteoblastic differentiation of adipose-derived mesenchymal stem cells.

RESEARCH PROJECTS

1. Designing, synthesis and characterization of polymeric nanocomposite scaffolds containing Curcumin and Zeolite along with the study of their effects on osteoblastic differentiation and senescence of mesenchymal stem cells aiming to bone regeneration.
2. Development of zeolite based nanocomposite scaffolds containing ascorbic acid and dexamethasone for osteoblastic differentiation and macrophage repolarization with the aim of using in bone regeneration.
3. Design and fabrication of demineralized and decellularized hydrogels loaded with titanium nanoparticles and curcumin for osteoblastic differentiation of adipose-derived mesenchymal stem cells.
4. Osteoblastic differentiation and macrophage repolarization on composite nanomaterials containing phytochemicals with the aim of applying in regenerative medicine.
5. Design, fabrication and evaluation of mesenchymal stem cell-derived exosomes immobilized on microspheres loaded with mesoporous silica nanoparticles containing metformin on osteoarthritis in vitro cellular model.
6. Assessment of the impact of decellularized pancreatic tissue on the differentiation of umbilical cord-derived Mesenchymal stem cells into beta-like cell.
7. Linoleic acid and risk of cardiovascular disease: a systematic review and dose-response meta-analysis of cohort studies.

8. Effects of hydro-alcoholic extract of *Fumaria parviflora* supplementation on gene expressions of inflammatory parameters, anthropometric indices and body composition in patients with type 2 diabetes: A clinical trial
9. Synbiotic supplementation on gut microbiome metabolite, inflammatory and cardiovascular factors in mild subclinical hypothyroid patients: A double-blind placebo-controlled randomized clinical trial.
10. Investigating the anti-obesity effect of post biotic derived from native *Lactobacillus* strains by inhibiting cholesterol and triglyceride synthesis in Liver cancer cell line.
11. Determining therapeutic interventions and treatment outcomes of transient tachypnea of the newborn: A systematic review.
12. Studying of the differentiation of adipose derived mesenchymal stem cells into pancreatic beta cells with the effect of empagliflozin drug cultured on chitosan scaffold.
13. Studying of the differentiation of mesenchymal stem cells into pancreatic beta cells with the effect of metformin drug cultured on PLGA scaffold.
14. Designing the health hero application for effective screening of obesity and fatty liver in the school-age children.
15. A systematic review of the role of Micro RNA in the diagnosis, clinical aspect, and follow-up of Acromegaly.
16. Vitamin D and risk of mortality in patients with chronic kidney disease: systematic review and dose-response meta-analysis of observational cohort studies.

COMMITTEE MEMBER

Member of the Iranian Biology Society