

Personal Detail

Name: Ali Esmaeili

Date of Birth: 1995/09/25

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Education and Qualifications

Ph.D. in Tissue Engineering, Shahid Beheshti University of Medical Sciences, Iran (2021-2024)

M.Sc. in Histology, University of Tabriz, Iran (2018-2020)

M.Sc. Thesis

The Effect of Continuous, High Intensity Interval and Progressive Resistance Training on Stereological and Histological Structure and Apoptosis of Testis in Rats Fed by Sunflower Oil Supplemented High fat and Sugar Diet

Ph.D. Thesis

Acute Skin Wound Healing Using Processed Fish Skin in the Presence of Exosomes

Achievements and Skills

Graduated as a Talented Student of the University of Tabriz

Graduated as a Talented Student of Shahid Beheshti University of Medical Sciences

Member of the National Elite Foundation

National Distinguished Researcher, Ministry of Health, Iran

Ranked 2nd in the National Master's Entrance Exam, Iran

Certified in English – MHLE

Skilled in Working with Laboratory Animals

Skilled in Microsoft Office, Prism (Statistical Software), and Biorender
(Figure Design)

Work Experience in Preparing Tissue Sections, Cell Culture and Biomaterial
Design

Experienced in Preparing and Editing Original and Review Scientific Papers

Teaching Experience

1) Instructor, “Histology Principles and Basics Workshop”, Shahid Beheshti
University of Medical Sciences, Tehran, Iran (2024)

2) Instructor, "3D bioprinters: Principles, Foundations, and Applications
Workshop", Ardabil University of Medical Sciences, Ardabil, Iran (2025)

Books in Persian

Translation:

1) 3D Bioprinting: Modeling In Vitro Tissues and Organs Using Tissue-
Specific Bioinks, **Ali Esmaeili**, Mahboubeh Bohlouli (2023)

Compilation:

1) Application of Tissue Engineering in Food Industry, **Ali Esmaeili**, Sahar
Sabahi, Saeed Heidari Keshel, Hedayat Hosseini, Amin Abbasi, Sara
Bazzaz (2023)

2) Application of Material's Principles in Tissue Engineering, Simzar Hosseinzadeh, **Ali Esmaeili**, Farzaneh Saeedi-Landi (2023)

3) Application of Tissue Engineering in the Healing of Skin Wounds, **Ali Esmaeili**, Saeed Heidari Keshel (2023)

Research Projects

1) A Systematic Review of the Efficiency of Different Decellularization Methods Performed on Fish Skin

2) A Review of Investigating the Effectiveness of Xenograft-based Materials in Healing skin Wounds

3) Production of Collagenic Wound Dressing Derived from Tilapia Fish Skin and Evaluation of its Efficiency in Wound Healing in Rat Model (technological)

4) Investigating the Effectiveness of Exosomes in Healing Skin Wounds

5) Improving the Properties of Acellular Tilapia and Grass carp Skin by Carbodiimide and Tannic acid Cross-linkers

Papers

1. **Esmaeili A**, Biazar E, Ebrahimi M, Heidari Keshel S, Kheilnezhad B, Saeedi Landi F. Acellular fish skin for wound healing. *International Wound Journal*. 2023 Sep;20(7):2924-41.
2. **Esmaeili A**, Rahimi A, Abbasi A, Hasannejad-Asl B, Bagheri-Mohammadi S, Farjami M, Keshel SH. Processing and post-processing of fish skin as a novel material in tissue engineering. *Tissue and Cell*. 2023 Oct 10:102238.
3. **Esmaeili A**, Soleimani M, Rouhani M, Noorkhajavi G, Aghaei-Zarch SM, Hasannejad-Asl B, Bagheri-Mohammadi S, Ebrahimi M, Keshel SH. Xenograft-based skin substitutes: A critical review. *Journal of Drug Delivery Science and Technology*. 2024 Apr 1:105613.

4. Vandishi AK, **Esmaeili A**, Taghipour N. The promising prospect of human hair follicle regeneration in the shadow of new tissue engineering strategies. *Tissue and Cell*. 2024 Feb 28:102338.
5. **Esmaeili A**, Soleimani M, Keshel SH, Biazar E. Design of improved acellular fish skin as a promising scaffold for tissue regeneration applications. *Tissue and Cell*. 2024 Dec 1;91:102567.
6. **Esmaeili A**, Noorkhajavi G, Soleimani M, Farsinezhad H, Bagheri-Mohammadi S, Keshel SH. Application of exosomes for the regeneration of skin wounds: principles, recent applications and limitations. *Tissue and Cell*. 2024 Nov 10:102611.
7. Hasannejad-Asl B, Heydari S, Azod F, Pooresmaeil F, **Esmaeili A**, Bolhassani A. Peptide-Membrane Docking and Molecular Dynamic Simulation of In Silico Detected Antimicrobial Peptides from *Portulaca oleracea*'s Transcriptome. *Probiotics and Antimicrobial Proteins*. 2024 May 4:1-5.
8. Ebrahimi MN, Banazadeh M, Alitaneh Z, Suha AJ, **Esmaeili A**, Hasannejad-Asl B, Siahposht-Khachaki A, Hasanshahi A, Bagheri-Mohammadi S. The distribution of neurotransmitters in the brain circuitry: mesolimbic pathway and addiction. *Physiology & Behavior*. 2024 Jul 14:114639.
9. Sharifi N, Alitaneh Z, Asadi S, Vahidinia Z, Aghaei Zarch SM, **Esmaeili A**, Bagheri-Mohammadi S, Najafi S, Mazhari Y. Developing nanosize carrier systems for Amphotericin-B: A review on the biomedical application of nanoparticles for the treatment of leishmaniasis and fungal infections. *Biotechnology Journal*. 2024 Jan;19(1):2300462.
10. Bagheri-Mohammadi S, Farjami M, Suha AJ, Zarch SM, Najafi S, **Esmaeili A**. The mitochondrial calcium signaling, regulation, and cellular functions: A novel target for therapeutic medicine in neurological disorders. *Journal of Cellular Biochemistry*. 2023 May;124(5):635-55.
11. Aghaei-Zarch SM, **Esmaeili A**, Bagheri-Mohammadi S. A Comprehensive Review on LncRNAs/miRNAs-DNMT1 Axis in Human Cancer: Mechanistic and Clinical Application. *Journal of Cellular and Molecular Medicine*. 2025 May 19;29(10):e70604.
12. Hasannejad-Asl B, Pooresmaeil F, Azadi S, Najafi A, **Esmaeili A**, Bagheri-Mohammadi S, Kazemi B. Computational drug discovery of potential 5 α -reductase phytochemical inhibitors and hair growth promotion using in silico techniques. *Frontiers in Bioinformatics*. 2025 May 6;5:1570101.
13. Ozma MA, Nabizadeh E, Valiollahzadeh MR, Rashedi J, Poor BM, Asgharzadeh V, Kafil HS, Khodadadi E, Taghinejad Z, Abbasi A, **Esmaeili A**. Different Dimensions of the Effects of SARS-CoV-2 in Causing Fluctuations in the Blood Pressure of Patients

14. Abbasi A, Sanej KD, Moradi S, Bazzaz S, **Esmaeili A**, Ghafourian K, Sabahi S, Lahouty M, Akrami S, Aslani R, Hosseini H. Bioactive Compounds and Biological Activities of *Allium sativum* L. In *Bioactive Compounds in the Storage Organs of Plants 2023* Jul 15 (pp. 1-40). Cham: Springer Nature Switzerland.

Conferences, Congress, and Seminars

1. **Ali Esmaeili**, Amin Abbasi. DECELLULARIZED MATERIALS WITH XENOGRAFT ORIGIN FOR CORNEAL REGENERATION. The 9th International Conference on Scientific Research, Turkey, 2023.
2. Amin Abbasi, Sara Bazzaz, **Ali Esmaeili**, Mahdi Asghari Ozma. EVALUATION OF ANTICANCER EFFECTS OF POSTBIOTICS OF *LACTOBACILLUS CASEI* L431 ON HCT-116 CANCER AND HFF NORMAL CELL LINES. The 9th International Conference on Scientific Research, Turkey, 2023.
3. Rezaei R, Hamidian Gh, **Esmaeili A**. Methanolic extract of *Stachys Schtschegleevii* Improves Sperm Parameters in Type 2 Diabetic Rats by reduction of Oxidative stress in Epididymis. 20th international congress on Reproductive Biomedicine (28-30 August 2019, Tehran, Iran).
4. Rezaei R, Hamidian Gh, **Esmaeili A**. The effect of methanolic Extract of *poulak* on Mean Volume and total Number of Leydig cells and plasma Level of testosterone in type 2 Diabetic Rats. 20th international congress on Reproductive Biomedicine (28-30 August 2019, Tehran, Iran).
5. Gholamreza Hamidian, Reza Rezaei, **Ali Esmaeili**. Anti-apoptotic and Anti-inflammatory effect of *stachys schtschegleevii* methanolic extract in the liver of type 2 diabetic rats. 24th Iranian & 3rd International Congress of Physiology and Pharmacology, 30 Oct-01 Nov, 2019 Tehran, Iran.
6. 7. Gholamreza Hamidian, Azindokht Babapour, Reza Rezaei, **Ali Esmaeili**, Mohsen Hanifeh, Seyyed Hossein Jaralmosjad. Immunohistochemical evaluation of the effect of erythropoietin on the apoptosis index and caspase-3 expression in liver tissue following ischemia/reperfusion in the cat intestine. Fifth National Congress of Basic Veterinary Sciences, Kerman, 11-12 November 2020.
7. Presented a seminar on "Tissue engineering in corneal disorders" at Translational Ophthalmology Research Center. Farabi Eye Hospital, Tehran (2022)

Peer Review Activities

Peer Reviewer for Journal of Injury, 2025

Peer Reviewer for International Journal of Biological Macromolecules, 2026

Peer Reviewer for Iranian Journal of Allergy, Asthma and Immunology,
2026