

Personal Information:

First name: Sima

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Marital Status: Single

Date of Birth: 1988/08/09

Academic education:

B.Sc. in Laboratory Sciences

M.Sc. in Genetics

Ph.D. in Molecular Medicine, Hamadan university of Medical sciences, (2017- 2022).

Work Experience:

- Research Scientist, Pasteur Institute of Iran (2014- 2017)
- Research and Administrative Staff Member, Molecular Reference Laboratory, Deputy for Health, Iran University of Medical Sciences (2023-2026).
- Research Scientist, Research Institute for Gastroenterology and Liver Diseases (RIGLD) (2026-Now) Academic education

Skills:

Molecular cloning techniques, Real-Time PCR, parasite culture, cell culture techniques, Western Blot, DNA extraction, RNA extraction, ELISA, immunocytochemistry (ICC), immunohistochemistry (IHC), and bioinformatics.

Research:

Targeting VEGF signaling for tumor microenvironment remodeling and metastasis inhibition: Therapeutic strategies and insights

Link: <https://www.sciencedirect.com/science/article/pii/S0753332225002173>

Effect of platelet-rich plasma on antigenic and regenerative properties in patients with critical limb ischemia

Link: <https://www.sciencedirect.com/science/article/pii/S2352320425000082>

In vitro and in vivo evaluation of the diabetic wound healing properties of Saffron (*Crocus Sativus* L.) petals

Link: <https://www.nature.com/articles/s41598-024-70010-8>

The Combination of Zerumbone with 5-Fluorouracil for Sensitizing Colorectal Cancer-Associated Fibroblasts to Treatment

Link: <https://link.springer.com/article/10.1007/s12672-025-02253-4>

Role of SARS-CoV-2 and ACE2 in the pathophysiology of peripheral vascular diseases

Link: <https://www.sciencedirect.com/science/article/pii/S0753332223011125>

Exosomes derived from cancer-associated fibroblasts mediate response to cancer therapy

Link: <https://www.sciencedirect.com/science/article/pii/S1040842823000550>

Combination of curcumin and zerumbone improves VEGF-A inhibition in colorectal cancer in vivo and in vitro models

Link: <https://link.springer.com/article/10.1007/s40011-023-01486-z>

Current concepts of microRNA-mediated regulatory mechanisms in human pulp tissue-derived stem cells: a snapshot in the regenerative dentistry

Link: <https://link.springer.com/article/10.1007/s00441-023-03792-4>

Antiregulatory microRNAs in breast cancer: Molecular mechanistic basis and implications for therapeutic strategies

Link: <https://www.sciencedirect.com/science/article/pii/S2090123221001302>

Cellular Therapy: The Hope for Covid-19

Link: <https://pmc.ncbi.nlm.nih.gov/articles/PMC9077656/>

Mesenchymal Stem Cell-Based Regenerative Therapy in Atherosclerosis: An Update Review

Link: <https://link.springer.com/article/10.1007/s11886-025-02332-6>

The Immunoregulatory Role of Programmed Death-Ligand 1 in Wound Healing Dynamics

Link: https://journals.sums.ac.ir/article_51396_9a5f0a1f978b54e6f595d296f525aed5.pdf

Light-based therapy: Novel approach to treat COVID-19

Link: <https://pmc.ncbi.nlm.nih.gov/articles/PMC11022193/>

Expression of miR-1290 and its target genes THBS1 and DKK3 in colorectal cancer patients

Link: https://www.sid.ir/en/VEWSSID/J_pdf/df1043920200104.pdf

Analysis of A2 gene in dermatotropic and viscerotropic isolates of Iranian Leshmania Tropica
Like: <https://www.sid.ir/paper/413218/en>

Translated Books:

Mitigation of Cancer Therapy Side Effects with Light

Handbook of gene and cell therapy

Gene Registration:

Leishmaniatropica stress-induced protein1 (Sti1) gene, partials
Gene Bank: KU744840.1

Leishmania tropica strain MHOM/IR/03/IPI-SH29 internal transcribed spacer 1 and 5.8S ribosomal RNA gene, partial sequence

GenBank: KX599337.1

Research Project:

Quantitative and qualitative assessment of monocytes isolated from donated whole blood using the plastic adherence method. (2021) (principal investigator)

Investigation of the Effect of Low-Level Laser Irradiation on Proliferation, Multipotency, and Expression of Angiogenesis-Related Proteins in Human Dental Mesenchymal Stem Cells. (2023) (Collaborator)

Investigation of the combined anti-angiogenic effect of Zerumbone and Curcumin in a mouse model of colorectal cancer. (2023) (Collaborator)

Investigation of the Effect of Saffron Extract on Improving the Diabetic Wound Healing Process. (2023) (Collaborator)

Study of the expression pattern of miR-1290 and its target genes THBS1 and DKK-3 in patients with colorectal cancer. (2020) (Collaborator)

Study of the combined antitumor effect of Zerumbone and 5-Fluorouracil on fibroblasts in a mouse model of colorectal cancer. (2021) (Collaborator)

Quantitative and qualitative assessment of monocytes isolated from donated blood leukocyte-reduction filters using the plastic adherence method. (2021) (principal investigator)

Investigation of Anellovirus Genome Presence in Respiratory Samples from Individuals Visiting Health Centers Affiliated with Iran University of Medical Sciences. (2025) (Collaborator)

Investigation of the effects of exosomes derived from low-level laser-stimulated adipose-derived stem cells on biomechanical strength, stereological parameters, and the expression of wound repair-related genes in an acute skin wound model in rats. (2026) (Collaborator)