

Gholam Ali KARDAR (MSPH, PhD)

Professor of Molecular Genetics

Immunology, Asthma & Allergy Research Institute; AND

Department of Medical Biotechnology, SATiM;

Tehran University of Medical Sciences;

No. 62, Gharib St., Tehran, 14194, IRAN.

Tel: +98 21 66907415, 66935855 (Ext. 121); Fax: +98 21 66428995; Cell phone: +98 912 019 9469,

gakardar@tums.ac.ir, & gakardar@gmail.com, Webpage: https://cv.tums.ac.ir/en/cv/Gholamali_KardarLinkedIn: <https://www.linkedin.com/in/gholam-ali-kardar-phd-805ab879/>**EDUCATION**

PhD.	2010	Molecular Genetics	NIGEB, Iran
M.Sc.	2001	Medical Immunology	Tehran University of Medical Sciences, Iran
B.Sc.	1995	Zoology (Biology)	Tehran University, Iran

AWARDS & HONORS

1. National Research Festival on Medical Sciences Award;	2003
2. Distinctive, National Youth Talent, National Foundation Elite;	2007
3. Tasnim Research Award;	2016
4. Visiting Professor, Immunology Department, University of Toronto;	2018-2019
5. Outstanding professor, TUMS international affairs Award;	2022

RESEARCH INTERESTS

- Cancer vaccines, Immunotherapy,
- Gene Therapy & genome editing
- Cell engineering
- Allergen characterization, Allergy vaccine, & Immunotherapy

PROFESSIONAL EXPERIENCES

- Antibody development
- Immunochemistry
- Cell and Tissue culture
- Molecular Cloning, & Genetic engineering
- Bioinformatics
- Statistical analysis [SPSS]
- Flow Cytometry
- Assay development
- Protein Engineering & vaccine design
- CRISPR technology

THESIS

M.Sc. of Immunology (2000): Study of cytokine profile and T-cell proliferative response in healthy responder and nonresponder Individual vaccinated with recombinant hepatitis B antigen. Score: 19.90 of 20; School of public health, Tehran University of Medical Sciences, Iran; Supervisor: **Dr. Shokri F.**

Ph.D. of Molecular Genetics (2010): Studying secretion of human coagulation factor VIII after amino acid substitutions in A1 domain based on site directed mutagenesis. Score: 19.75 of 20; Basic Sciences Dept., NIGEB, Iran; Supervisor: **Dr. Zomorodipour A.**

MEMBERSHIP IN PROFESSIONAL SOCIETIES

- National Foundation Elite 2007-present
- Iranian Society of Immunology and Allergy (ISIA) 2003- present
- European Academy of Allergology and Clinical Immunology (EAACI) 2002- present
- Iranian Cancer Association 2011- present
- TUMS genetic network 2022-present
- And other related academic societies

SCIENTIFIC POSITION

- Professor, Tehran University of Medical Sciences 2023-present
- Associate professor, Tehran University of Medical Sciences 2018-2022
- Assistant professor, Tehran University of Medical Sciences 2011-2017
- Visiting Professor; University of Toronto, Department of Immunology 2018-2019
- International dean of Immunology Asthma & Allergy Research Institute 2024-present
- Instructor and Board member of Iranian Society of Asthma and Allergy 2004-2007

JOURNAL EDITORIAL BOARD & REVIEWER

- member of several peer-reviewed journal's editorial board and reviewer

TEACHING EXPERIENCES at Tehran University of Medical Sciences

- **Immunopathology** MSc & PhD students of Immunology 2015-present
Cancer biology and immunotherapy, Gene Therapy
- **Genetic Engineering** PhD students of Medical Biotechnology 2011-present
Molecular cloning approach, Vectors, & Mutagenesis
- **Vaccines** PhD students of Medical Biotechnology 2011-present
Monoclonal and Recombinant Antibody, vaccine carriers, Adjuvants, Transgenic Animal
- **Immunochemistry** MSc & PhD students of Medical Biotechnology 2014-present
Immunoassay essentials, Immunochemical assays, FRET, Flowcytometry, ...
- **Advanced Cell culture** MSc & PhD students of Medical Biotechnology 2014-present
Primary & secondary cells culturing, cell functional assays, 3D models
- **Laboratory Animal** MSc students of Medical Biotechnology 2014-present
Ethics, facilities, Principles Governing the care and use

RECENT KEY PUBLICATIONS [[Complete list](#)]

Mehmandoostli Z, Dehghani Ashkezari M, Seifati SM, Sadeghi V, Falak R, **Kardar GA**. The Evaluation of the N-cadherin Promoter's ability to Block EMT by Specific Expression of Diphtheria Toxin in EMT-induced A549 Cell Lines. Iran J Allergy Asthma Immunol. 2024 Apr 7;23(2):220-230.

Yousefi-Najafabadi Z, Mehmandoostli Z, Asgari Y, Kaboli S, Falak R, **Kardar GA**. Reversing T Cell Exhaustion by Converting Membrane PD-1 to Its Soluble form in Jurkat Cells; Applying The CRISPR/Cas9 Exon Skipping Strategy. Cell J 2023 Sep ;25 (9): 633-644

Nejad Mohammadi, Fatemeh Nouri, Yazdan Asgari, Hemen Moradi-Sardareh, Mahnaz Sharafi-Kolkeshvandi, **Kardar GA**. The immunostimulant effects of the rice ragged stunt virus genome on the growth and metastasis of breast cancer in mouse model. International immunopharmacology 2023. 125(Pt A):111101.

Paydari Rostami S, Moghare Dehkordi N, Asgari Y, Bolouri MR, Shayanfar N, Falak R, and **Kardar GA**. Competitive Effect of Overexpressed C-terminal of Snail-1 (CSnail) is a Promising Strategy in Control of the Growth and Metastasis of Melanoma Cells. *Recent Pat Anticancer Drug Discov*. 2023 in press.

Najafabadi ZY, Fanuel S, Falak R, Kaboli S, **Kardar GA**. The Trend of CRISPR-Based Technologies in COVID-19 Disease: Beyond Genome Editing. *Mol Biotechnol*. 2022 Jan 29;1-16.

Feng Y, Li C, Stewart J, Barbulescu P, Desivo NS, Álvarez-Quilón A, Pezo RC, Perera M, Chan K, Tong K, Mohamad-Ramshan R, Berru M, Nakib D, Li G, **Kardar GA**, ..., Alberto Martin. FAM72A antagonizes UNG2 to promote mutagenic uracil repair during antibody maturation. *Nature*. 2021 Dec; 600 (7888): 324-328

Sadeghi F, **Kardar GA**, Bolouri MR, Nasri F, Sadri M, Falak R. Overexpression of bHLH domain of HIF-1 failed to inhibit the HIF-1 transcriptional activity in hypoxia. *Biol Res*. 2020 Jun 5;53 (1): 25.

Soltanpour Gharibdousti F, Fazeli Delshad B, Falak R, Shayanfar N, Ganjalikhani Hakemi M, Andalib A, **Kardar GA**. Induction of humoral immune responses and inhibition of metastasis in mice by a VEGF peptide-based vaccine. *Iran J Basic Med Sci*. 2020 Apr;23 (4): 507-514.

CURRENT PROJECTS

- Evaluation of the inhibitory effects of HIF binding construct in the presence of prodrug and Thymidin Kinase enzyme on the metastasis of A549 and MCF7 tumor cells
- The change of PD-1 expression on peripheral T cells by CRISPR/Cas9 method
- Neoantigen based vaccine; An Immunotherapy approach
- T cell engineering for more effective in Adoptive T cell therapy
- In-vivo gene delivery by advantage AAV particles

PROFESSIONAL REFEREES

Dr. Fazel Shokri, Professor at Tehran University of Medical Sciences, Tehran, Iran.
+98 21 8895 3021, fshokri@tums.ac.ir

Dr. Mahmood Jeddi-Tehrani, Professor at AVECINNA Research Institute, Tehran, Iran.
+98 912 3279072, mahjed@yahoo.com

Dr. Pejman Soroosh, Vice president, Head of Immunology Discovery, AnaptysBio. San Diego, CA, US.
+1 858 997 3864, pejman49@gmail.com