

CV (Curriculum Vitae)



Moein Dehbashi

Assistant Professor of Genetics

Academic Affiliation: Department of Genetics, Faculty of Biological Science and Technology, University of Shahid Ashrafi Esfahani, Isfahan, Iran.

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Profiles: <https://scholar.google.com>, <https://www.researchgate.net>

Referees:

- **Dr. Zohreh Hojati** (Supervisor of PhD thesis), Professor at Division of Genetics, Department of Cell and Molecular Biology and Microbiology, Faculty of Biological Science and Technology, University of Isfahan, Isfahan, Iran. Email: z.hojati@sci.ui.ac.ir
- **Dr. Majid Motovali-bashi** (Supervisor of PhD thesis), Associate Professor at Division of Genetics, Department of Cell and Molecular Biology and Microbiology, Faculty of Biological Science and Technology, University of Isfahan, Isfahan, Iran. Email: mbashi@sci.ui.ac.ir
- **Dr. Sadeq Vallian**, Professor at Division of Genetics, Department of Cell and Molecular Biology and Microbiology, Faculty of Biological Science and Technology, University of Isfahan, Isfahan, Iran. Email: svallian@biol.ui.ac.ir
- **Dr. Manoochehr Tavassoli**, Emeritus Professor at Division of Genetics, Department of Cell and Molecular Biology and Microbiology, Faculty of Biological Science and Technology, University of Isfahan, Isfahan, Iran. Email: manoochehr@biol.ui.ac.ir
- **Dr. Akihiro Shimosaka** (Advisor of PhD thesis), Professor at the Institute of Hematology, Peking Union Medical College, Beijing, China. Email: shimosaka@bioone.co.jp

PhD in Molecular Genetics:

University of Isfahan

PhD Thesis:

Construction of a chimeric antigen receptor (CAR) against CD25 in order to engineered natural killer cells.

Master of Business Administration (MBA):

University of Tehran

My Course Titles:

- Molecular Biology of Eukaryotes (BSc in Cell and Molecular Biology)
- Molecular Biology of Prokaryotes (BSc in Cell and Molecular Biology)
- Cell Cycle and Signaling Pathways (BSc in Cell and Molecular Biology)
- Molecular and Cell Biology Professional English Texts (BSc in Cell and Molecular Biology)

- Principles of Cell and Molecular Biology of Cancer (BSc in Cell and Molecular Biology)
- Immunogenetics (MSc in Genetics)
- Cancer Genetics (MSc in Genetics)
- Neurogenetics (MSc in Genetics)

Research Interests:

- Gene and Cell Therapy
- Molecular and Cellular Oncology
- CRISPR/Cas9
- Cancer Immunity and Immunotherapy
- Cancer Genetics
- Targeted Therapy
- Chimeric Antigen Receptors (CAR) T/NK Cell Therapy
- Stem Cell Biology
- Bioinformatics
- Drug Design
- Non-coding RNAs
- Immunogenetics
- Neurogenetics
- Vaccines
- Human Genetic Disorders

Some Honors:

- First-ranked student in the B.Sc. degree.
- Awarded for distinguished researcher of Isfahan Neurosciences Research Center (INRC), Isfahan University of Medical Sciences in 2014.
- Awarded for outstanding PhD student at the University of Isfahan in 2019.

Research Experiences:

- Researcher at ABRII, From 2010 to 2013.
- Isfahan Neurosciences Research Center (INRC), From 2013 to 2018.

Laboratory Skills:

- Genomics and transcriptomics techniques: RNAi, Genetic engineering, PCR, qRT-PCR, Transfection, Transduction, CRISPR/Cas9
- Proteomics techniques: Protein extraction methods, SDS-PAGE, IEF, 2D Gel Electrophoresis, Western blot.
- Bioinformatics: Protein structural analysis, Genomics and transcriptomics analyses
- Flow cytometry
- ELISA
- HPLC
- *In vivo*
- Cytogenetics
- Cell culture

Job Experiences:

- **R&D:** My colleagues and I established a knowledge-based company for producing recombinant protease in Isfahan Science and Technology Town, 2009.
- **Research assistance:** Research assistance in Genomics Department at ABRII, Isfahan, Iran 2011,
- **Lecture:** Genetic lecturer Division of Genetics, Department of Cell and Molecular Biology and Microbiology, Faculty of Biological Science and Technology, University of Isfahan, Isfahan, Iran, 2015.
- **CEO:** My colleagues and I established a knowledge-based company for producing viral diagnostic kits (HIV and HPV) in the Technology Center of the University of Isfahan, 2018.

- **R&D:** Molecular Biologist at R&D department in Spadana Mokamel Co. (Isfahan, Iran), 2020.
- **Assistant Professor of Genetics:** The University of Shahid Ashrafi Esfahani, 2025

National patents:

- Skin stretcher band-aid, 2018
- Wound healer and blood coagulator mixture, 2019

Publications:

No.	Title	Journal	Authors	Pub. date	Impact factor	Quartile	Indexing
1	<i>In silico</i> comparative protein analysis of human stem cell factor (SCF)	Journal of Applied Bioinformatics & Computational Biology	Dehbashi M, Kamali E, Vallian S	2015	-	-	Index Copernicus
2	Impact of glycosylation on therapeutic glycoproteins	British Journal of Applied Science & Technology	Mousavi M, Dehbashi M, Movahedi A.	2016	-	-	Index Copernicus
3	Structural basis of DNA topoisomerase II- α (Top2- α) inhibition: a computational analysis of interactions between Top2- α and its inhibitors	Medicinal Chemistry Research	Farsani FM, Ganjalikhany MR, Dehbashi M, Naeini MM, Vallian S	2016	1.7	Q2	ISI
4	Comparative genomics of human stem cell factor (SCF)	Molecular Biology Research Communications	Dehbashi M, Kamali E, Vallian S	2017	-	Q4	PubMed
5	Evaluation of the expression level and hormone receptor association of miR-126 in breast cancer	Indian Journal of Clinical Biochemistry	Rouigari M, Dehbashi M, Tabatabaeian H, Ghaedi K, Mohammadynejad P, Azadeh M	2018	-	Q3	Emerging Sources Citation Index, PubMed
6	Targetome analysis revealed involvement of miR-126 in neurotrophin signaling pathway: a possible role in prevention of glioma development	Cell Journal (Yakhteh)	Rouigari M, Dehbashi M, Ghaedi K, Pourhossein M	2018	1.9	Q3	ISI, PubMed
7	<i>In vitro</i> and computational	Applied Microbiology	Norouzi R, Hojati Z, Dehbashi M	2018	3.5	Q1	ISI, Medline

	studies on the effects of ARE deletion and targeted mutations on the expression of interferon beta-1a in HEK293T cells	and Biotechnology					
8	TRPC6 mutational analysis in Iranian children with focal segmental glomerulosclerosis	Iranian Journal of Kidney Diseases	Gheissari A, Meamar R, Kheirollahi M, Rouigari M, Dehbashi M , Dehghani L, Abedini A	2018	1	Q3	ISI, PubMed
9	The upregulation of hsa-mir-181b-1 and downregulation of its target CYLD in the late-stage of tumor progression of breast cancer	Indian Journal of Clinical Biochemistry	Andalib A, Rashed S, Dehbashi M , Hajati J, Noorbakhsh F, Ganjalikhani-Hakemi M	2019	-	Q3	Emerging Sources Citation Index, PubMed
10	Evaluation of silencing effect of miR-133a-5p mimic on TIM-3 expression in AML (HL-60) cell line	Indian Journal of Clinical Biochemistry	Hojati Z, Ganjalikhani-Hakemi M, Ameri M, Alimohammadi-Jelodar SF, Dehbashi M , Ganji MM, Homayouni V, Khanahmad H	2019	-	Q3	Emerging Sources Citation Index, PubMed
11	Integral membrane protein expression of human CD25 on the cell surface of HEK293 cell line: the available cellular model of CD25 positive to facilitate in vitro developing assays	Biomolecular Concepts	Dehbashi M , Hojati Z, Motovali-bashi M, Ganjalikhani-Hakemi M, Shimosaka A	2019	-	Q1	Web of Science-BIOSIS Previews, PubMed
12	Impact of IFN- β and LIF overexpression on human adipose-derived stem cells properties	Journal of Cellular Physiology	Ashja-Arvan M, Dehbashi M , Eslami A, Salehi H, Yoosefi M, Ganjalikhani-Hakemi M	2020	5.5	Q1	ISI, PubMed
13	Assessment of ability of human adipose derived stem cells for long	Cytotechnology	Eslami A, Dehbashi M , Ashja-Arvan M, Salehi H,	2020	1.7	Q2	ISI, PubMed

	term overexpression of IL-11 and IL-13 as therapeutic cytokines		Azimzadeh M, Ganjalikhani-Hakemi M				
14	Assessment of acute kidney injury by urinary β 2-MG and NAG in pediatric cancer patients prescribed with Cisplatin, Carboplatin, and Ifosfamide as the chemotherapeutic agents	Iranian Journal of Pediatric Hematology and Oncology	Moafi A, Basirkazeruni H, Reisi N, Dehbashi M, Ghanbarinia L, Merrikhi A,	2020	-	-	ISI
15	Identification of circulating hsa-miR-324-3p and hsa-miR-331-3p expression changes in the serum of Alzheimer's patients and insights into the pathophysiological pathways	Cell Journal (Yakhteh)	Heydari M, Hojati Z, Dehbashi M	2021	1.9	Q3	ISI, PubMed
16	The highlighted roles of metabolic and cellular response to stress pathways engaged in circulating hsa-miR-494-3p and hsa-miR-661 in Alzheimer's disease using enrichment approach and their expression assessments in serum of the Alzheimer's patients	Iranian Biomedical Journal	Hojati Z, Omidi F, Dehbashi M, Mohammad Soltani B	2021	-	Q2	ISI, PubMed
17	Computational study for suppression of CD25/IL-2 interaction (Accepted)	Biological Chemistry	Dehbashi M, Hojati Z, Motovali-bashi M, Ganjalikhani-Hakemi M, Shimosaka A, Cho W C	2021	3.2	Q1	ISI, PubMed
18	Systems biology unraveled the	Gene Reports	Dehbashi M, Hojati Z,	2021	-	Q4	-

	relationship of lncRNA OIP5-AS1 with CD25 and its co-expression analysis in cancers		Motovali-bashi M, Cho W C, Shimosaka A, Ganjalikhani-Hakemi M				
19	Designing and optimization of a single-chain fragment variable (scFv) antibody against IL2R α (CD25): An in silico and in vitro study	Iranian Journal of Basic Medical Sciences	Navabi P, Ganjalikhany M R, Jafari S, Dehbashi M , Ganjalikhani-Hakemi M	2021	2.1	Q2	ISI, PubMed
20	A novel CAR expressing NK cell targeting CD25 with the prospect of overcoming immune escape mechanism in cancers	Frontiers in Oncology	Dehbashi M , Hojati Z, Motovali-Bashi M, Ganjalikhany MR, Cho WC, Shimosaka A, Navabi P, Ganjalikhani-Hakemi M.	2021	6.2	Q1	ISI, PubMed
21	Investigating neural differentiation of mouse P19 embryonic stem cells in a time-dependent manner by bioinformatic, microscopical and transcriptional analyses	Molecular Biology Reports	Moazeny M, Dehbashi M, Hojati Z, Esmaeili F.	2023	2.7	Q2	ISI, Medline
22	Association of xenobiotic-metabolizing genes polymorphisms with cervical cancer risk in the Tunisian population	Molecular Biology Reports	Helaoui A, Sfar S, Boudhiba N, Dehghanian F, Dehbashi M , Bouchahda H, Hojati Z, Kenani A	2023	2.7	Q2	ISI, Medline
23	Development of a rapid LFA test based on direct RT-LAMP for diagnosis of SARS-CoV-2	Practical Laboratory Medicine	Sadeghi N, Shirazi N, Dehbashi M , Maleki B, Cho W, Hojati Z	2024	1.8	Q3	Scopus, PubMed

Conferences

- **Dehbashi M.** Anticancer Alkaloids in *Catharanthus roseus*, 2006. The 1st National Biotechnology Congress, Razi University of Kermanshah- Iran.
- Aghashiri M., Abbasian M., **Dehbashi M.**, 2007. DNA Packaging Motors of Phi 29 bacteriophage in Cancer Therapy, The 5th National Biotechnology Congress of Iran. Summit Meeting Conference Hall, Tehran-Iran.
- **Dehbashi M.**, Rouigari M., Dehdashti M. 2014. Gene Therapy Vectors and Strategies in Malignant Gliomas. International Conference on “Disease Biology and Therapeutics (ICDBT-2014), Institute of Advanced Study in Science & Technology (IASST), Guwahati, Assam, India,.
- Rouigari M., **Dehbashi M.**, Dehdashti M. 2014. Immunotherapy against Malignant Gliomas. International Conference on “Disease Biology and Therapeutics (ICDBT-2014), Institute of Advanced Study in Science & Technology (IASST), Guwahati, Assam, India,.
- **Dehbashi M.**, Rouigari M. NcRNAs, 2015. Nutrition and Brain disorders. XXI World Congress on Parkinson's Disease and Related Disorders, December 6-9, Milan, Italy. Published by Parkinsonism & Related Disorders 22 (2016): e176.
- **Dehbashi M.**, Rouigari M. 2016. Genetic models of Parkinson's disease. XXI World Congress on Parkinson's Disease and Related Disorders, December 6-9, 2015, Milan, Italy. Published by: Parkinsonism & Related Disorders 22: e179.
- **Dehbashi M.**, Rouigari M. 2016. NcRNAs, Epigenetics role in Parkinson's disease. XXI World Congress on Parkinson's Disease and Related Disorders, December 6-9, 2015, Milan, Italy. Published by: Parkinsonism & Related Disorders 22: e166.
- **Dehbashi M.**, Hakemi M. G., Hojati Z., Ganjalikhany M. R., Mohamadi Farsani F., Shimosaka A. 2016. Molecular docking and molecular dynamic analysis of anti-CD25 chimeric antigen receptor. The 7th meeting of Asian Cellular Therapy Organization. Beijing. China.

Book (English):

- Impact of glycosylation on therapeutic glycoproteins. **2017**. Lap Lambert Academic Publishing. Movahedi A., **Dehbashi M.**, Mousavi M.

Book (Persian):

- Multiple sclerosis. 2018. (Published)
- Cellular signal transduction (Under editing)
- Cancer signaling (Under editing)
- Proteomics (Under editing)

English language:

PBT

GRE

MSRT (MCHE)

MHLE