

Dariush Shanehbandi

Curriculum Vitae

Identifying information

Surname, Name: **Shanehbandi, Dariush**

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Address: **Immunology Research Center, Tabriz University of Medical Sciences, Daneshgah St., Tabriz, Iran**

ORCID ID: **0000-0002-9449-0607**

Educational Background

Ph.D in Medical Biotechnology Sep 2013- Apr 2017

Alma Mater: Tabriz University of Medical Sciences, Tabriz, Iran

GPA: 19.54 out of 20

Thesis title: Production of a chimeric mouse-human monoclonal antibody against human CD20

M.Sc. in Biotechnology Sep2007-April 2010

Alma Master: Payame Noor University of Tehran, Karaj, Iran

GPA: 17.73 out of 20

Thesis title: Cloning of Carbonic anhydrase from *Dunaliella* microalgae (isolated from Iranian salty lakes)

Research/Work Experience

Assistant Professor April 2018 - Present

Institution: Immunology Research Center, Tabriz University of Medical Sciences, Tabriz, Iran

Researcher and Research assistant: Immunology Research Center, Tabriz University of Medical Sciences, Tabriz, Iran **April 2011- April 2018**

Laboratory and Research Experience and Skills

More than 15 years of experience in Molecular biology techniques including:

- DNA and RNA extraction, PCR, qRT-PCR (SYBR green and TaqMan methods), Cloning and Genetic Engineering, Expression, Molecular markers (RAPD, RFLP and ...), Western blotting, ELISA, Cell culture, RNAi (siRNA and miRNA replacement), transfection, Luciferase assay, Genome editing (practically: knockout by CRISPR-Cas9 system)
- *E. coli* and Mammalian cell culture
- Scientific manuscript writing using professional softwares (Microsoft office, EndNote)
- Online biotechnology databases (NCBI, Ensemble, miRbase, and ...), online and installable bioinformatics tools (clustalx, Mega, Oligo7, CRISPR tools and ...).

Major Research Interests

- Molecular Biology of Cancer, Recombinant DNA Technology, Epigenetics and Non-Coding RNAs

1. Abbasi, Mehran Mesgari, Monireh Khordadmehr, Dariush Shanehbandi, Farinaz Jigari Asl, Reza Teimuri Mofrad, Shabnam Tahmasebi, Mohammad Shahab Asar, Fateme Eskandari Vaezi, and Yousef Panahi. "Apoptosis Induction by New Coumarin Derivatives in a Mice Model of Breast Cancer." *Archives of Razi Institute* 78, no. 5 (2023): 1430.
2. Abbasi-Kenarsari, Hajar, Farzaneh Shafaghat, Behzad Baradaran, Ali Akbar Movassaghpour, Dariush Shanehbandi, and Tohid Kazemi. "Cloning and Expression of Cd19, a Human B-Cell Marker in Nih-3t3 Cell Line." *Avicenna Journal of Medical Biotechnology* 7, no. 1 (2015): 39-44.
3. Abdolrahimi, Zohreh, Faria Aslani, Shahram Gasembaglou, and Dariush Shanehbandi. "Evaluation of the Expression Level of Mir-32 and Pten in Melanoma." *Journal of Mazandaran University of Medical Sciences* 33, no. 2 (2023): 309-315.
4. Abolghasemi, Mahsa, Sepide Ali Ashrafi, Milad Asadi, Dariush Shanehbandi, Saeed Sadigh Etehad, Elham Poursaei, Seyed Aria Nejadghaderi, and Sheida Shaafi. "Micrnas Expression in Peripheral Blood Mononuclear Cells of Patients with Multiple Sclerosis Propose." *Molecular Biology Reports* 50, no. 1 (2023): 167-172.
5. Abolghasemi, Mahsa, Sepide Ali Ashrafi, Milad Asadi, Dariush Shanehbandi, Saeed Sadigh Etehad, Elham Poursaei, Seyed Aria Nejadghaderi, and Sheida Shaafi. "Altered Mir-10, Mir-24a, Mir-124, and Mir-21 Expression in Peripheral Blood Mononuclear Cells of Patients with Multiple Sclerosis." Preprint. Available from: <https://assets.researchsquare.com/files/rs-1490169/v1/ea525601-112a-4281-982e-c97463c22b37.pdf>, (2022).
6. Abolghasemi, Mahsa, Yousef Daneshmandpour, Elham Poursaei, Javad Jamshidi, Behzad Baradaran, Dariush Shanehbandi, Somayeh Kazeminasab, and Babak Emamalizadeh. "Mmp9 (Rs20544) and Adcy2 (Rs58502974) as Susceptibility Factors for Schizophrenia in Iranian Population." *Meta Gene* 26, (2020): 100810.
7. Abolghasemi, Mahsa, Elham Poursaei, Soghra Bornehdeli, Dariush Shanehbandi, Milad Asadi, Mahsa Sadeghzadeh, and Reza Naghdi Sadeh. "Exploration of Potential

Circulating Micro-Rna as Biomarker for Alzheimer's Disease." *Meta Gene* 30, (2021): 100968.

8. Afkari, Babak, Zohreh Babaloo, Sanam Dolati, Alireza Khabazi, Farhad Jadidi-Niaragh, Mahsa Talei, Dariush Shanehbandi, Shiva Mahmoudi, Bita Hazhirkarzar, and Ebrahim Sakhinia. "Molecular Analysis of Interleukin-10 Gene Polymorphisms in Patients with Behçet's Disease." *Immunology Letters* 194, (2018): 56-61.
9. Aftabi, Younes, Khalil Ansarin, Dariush Shanehbandi, Majid Khalili, Ensiyeh Seyedrezazadeh, Leila Rahbarnia, Milad Asadi, Amir Amiri-Sadeghan, Venus Zafari, and Shirin Eyvazi. "Long Non-Coding Rnas as Potential Biomarkers in the Prognosis and Diagnosis of Lung Cancer: A Review and Target Analysis." *IUBMB life* 73, no. 2 (2021): 307-327.
10. Aghbali, A, S Vosough Hosseini, F Moradi Abbasabadi, L Mohammadnejad, D Shanehbandi, and B Baradaran. "Evaluation of Cytotoxic Activities of Iranian Orthodox Black Tea Extract (Bte) on Oral Squamous Cell Carcinoma (Kb Cell Line)." *Journal of research in dental sciences* 10, no. 2 (2013): 65-72.
11. Aghbali, Amirala, Sona Rafieyan, Leila Mohamed-Khosroshahi, Behzad Baradaran, Dariush Shanehbandi, and Maryam Kouhsoltani. "Il-4 Induces the Formation of Multinucleated Giant Cells and Expression of $\beta 5$ Integrin in Central Giant Cell Lesion." *Med Oral Patol Oral Cir Bucal*, (2016).
12. AGHEBATI, MALEKI LEILI, JAFAR MAJIDI, MEHDI YOUSEFI, BEHZAD BARADARAN, JALAL ABDOLALIZADEH, KHOSROSHAHI LEILA MOHAMED, and DARIUSH SHANEHBANDI. "Induction of Anti-Proliferative and Apoptotic Effects by Anti-Ror1 Receptor Single Chain Antibodies in Cancer Cells." (2017).
13. Aghebat-Maleki, Leili, Vahid Younesi, Behzad Baradaran, Jalal Abdolalizadeh, Morteza Motalebnezhad, Hamid Nickho, Dariush Shanehbandi, Jafar Majidi, and Mehdi Yousefi. "Antiproliferative and Apoptotic Effects of Novel Anti-Ror1 Single-Chain Antibodies in Hematological Malignancies." *SLAS DISCOVERY: Advancing Life Sciences R&D* 22, no. 4 (2017): 408-417.
14. Ahmad, Saeed Nazari Soltan, Akabar Hasani, Mohammad Rahmati-yamchi, Hamed Hajipour, Hamed Hamishehkar, and Dariush Shanehbandi. "Enhanced Anti-Cancer Capability of Ellagic Acid Using Solid Lipid Nanoparticles (SlNs)." (2018).

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16. Akbari, Morteza, Dariush Shanehbandi, Milad Asadi, Navid Shomali, Afsaneh Faraji, Vahid Khaze, Abbas Pakdel, Ahad Mokhtarzadeh, Ali Asghar Ebrahimi, and Aliakbar Shabani. "Effects of Cd133 Silencing on Survival and Migration of Ht-29 Colorectal Cancer Cells." *Iranian Journal of Immunology* 16, no. 3 (2019): 246-257.
17. Akbari, Morteza, Navid Shomali, Afsaneh Faraji, Dariush Shanehbandi, Milad Asadi, Ahad Mokhtarzadeh, Aliakbar Shabani, and Behzad Baradaran. "Cd133: An Emerging Prognostic Factor and Therapeutic Target in Colorectal Cancer." *Cell biology international* 44, no. 2 (2020): 368-380.
18. Akbarzadeh, Maryam, Reza Rahbarghazi, Elahe Nabat, Ali Akbar Movassaghpour, Dariush Shanehbandi, Behnaz Faramarzian Azimi Maragheh, Danial Matluobi, Balal Barazvan, Masoume Kazemi, and Nasser Samadi. "The Impact of Different Extracellular Matrices on Melatonin Effect in Proliferation and Stemness Properties of Ovarian Cancer Cells." *Biomedicine & Pharmacotherapy* 87, (2017): 288-295.
19. Ali Ashrafi, Sepide, Milad Asadi, Dariush Shanehbandi, Saeed Sadigh Eteghad, Asra Fazlollahi, Seyed Aria Nejadghaderi, and Sheida Shaafi. "Association between Mirna-145 and Mirna-155 Expression in Peripheral Blood Mononuclear Cells of Patients with Multiple Sclerosis: A Case-Control Study." *BMC neurology* 22, no. 1 (2022): 405.
20. Alizadeh, Nazila, Milad Asadi, Dariush Shanehbandi, Venus Zafari, Navid Shomali, Touraj Asvadi, and Bita Sepehri. "Evaluation of the Methylation of Mir129-2 Gene in Gastric Cancer." *Journal of Gastrointestinal Cancer* 51, (2020): 267-270.
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24. Amiri, Parichehr, Mahsa Naghizadeh, Behzad Baradaran, Maryam Saghafi-Asl, Dariush Shanehbandi, and Susan Mirmajidi. "Insulin Resistance in Relation to Inflammatory Gene Expression and Metabolic Features in Apparently Healthy Obese Individuals." *International Journal of Diabetes in Developing Countries* 39, (2019): 66-73.
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26. Anvarnia, Alireza, Farzad Mohaddes-Gharamaleki, Milad Asadi, Morteza Akbari, Bahman Yousefi, and Dariush Shanehbandi. "Dysregulated Micrnas in Colorectal Carcinogenesis: New Insight to Cell Survival and Apoptosis Regulation." *Journal of Cellular Physiology* 234, no. 12 (2019): 21683-21693.
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28. Asadi, Hamed, Mona Orangi, Dariush Shanehbandi, Zohreh Babaloo, and Abbas Delazar. "Methanolic Fractions of *Ornithogalum Cuspidatum* Induce Apoptosis in Pc-3 Prostate Cancer Cell Line and Wehi-164 Fibrosarcoma Cancer Cell Line." *Advanced Pharmaceutical Bulletin*, (2014).
29. Asadi, Milad, Dariush Shanehbandi, Ayse Caner, Habin Zarredar, Shahram Gasembaglou, Venus Zafari, Touraj Asvadi Kermani, and Ayşe Caner. "Downregulation of Slc-16 Can Increase Apoptosis Level in Gastrointestinal Cancer." In *Sağlık Bilimlerinde İleri Araştırmalar Dergisi*, 5, 39-39: Istanbul University, 2022.
30. Asadi, Milad, Dariush Shanehbandi, Touraj Asvadi Kermani, Zohreh Sanaat, Venus Zafari, and Shahriyar Hashemzadeh. "Expression Level of Caspase Genes in Colorectal Cancer." *Asian Pacific Journal of Cancer Prevention: APJCP* 19, no. 5 (2018): 1277.

31. Asadi, Milad, Dariush Shanehbandi, Hanieh Mohammadpour, Shahriyar Hashemzadeh, and Bita Sepehri. "Expression Level of Mir-34a in Tumor Tissue from Patients with Esophageal Squamous Cell Carcinoma." *Journal of Gastrointestinal Cancer* 50, (2019): 304-307.
32. Asadi, Milad, Dariush Shanehbandi, Venus Zafari, Vahid Khaze, Mohammad Hosein Somi, and Shahriar Hashemzadeh. "Transcript Level of MicroRNA Processing Elements in Gastric Cancer." *Journal of Gastrointestinal Cancer* 50, (2019): 855-859.
33. Asadi, Milad, Dariush Shanehbandi, Armin Zarintan, Negar Pedram, Behzad Baradaran, Venus Zafari, Masoud Shirmohamadi, and Shahriyar Hashemzadeh. "Tp53gene Pro72arg (Rs1042522) Single Nucleotide Polymorphism as Not a Risk Factor for Colorectal Cancer in the Iranian Azari Population." *Asian Pacific Journal of Cancer Prevention: APJCP* 18, no. 12 (2017): 3423.
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35. Asadi, Milad, Habib Zarredar, Venus Zafari, Zahra Soleimani, Hossein Saeedi, Ayse Caner, and Dariush Shanehbandi. "Immune Features of Tumor Microenvironment: A Genetic Spotlight." *Cell Biochemistry and Biophysics* 82, no. 1 (2024): 107-118.
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39. Aslan, Cynthia, Sepideh Maralbashi, Houman Kahroba, Milad Asadi, Mohammad Sadegh Soltani-Zangbar, Mahsa Javadian, Dariush Shanehbandi, Behzad Baradaran, Masood Darabi, and Tohid Kazemi. "Docosahexaenoic Acid (Dha) Inhibits Pro-Angiogenic Effects of Breast Cancer Cells Via Down-Regulating Cellular and Exosomal Expression of Angiogenic Genes and Micrnas." *Life Sciences* 258, (2020): 118094.
40. Aslanian-Kalkhoran, Lida, Daniel Elieh-Ali-Komi, Mahnaz Sadeghi-Shabestari, Dariush Shanehbandi, Zohreh Babaloo, Alireza Razavi, Saeed Sadigh-Eteghad, and Tohid Kazemi. "Investigation of Fc Receptor-Like 3 (Fcrl-3) Gene Polymorphism (Rs7528684) with Susceptibility to Allergic Asthma in Iranian North-Western Azeri Population." *Clinical laboratory*, no. 07+08/2017 (2017).
41. Attari, Vahideh Ebrahimzadeh, Seyed Sadroddin Rasi Hashemi, Solmaz Oloufi, Leili Aghebati Maleki, Dariush Shanehbandi, Mahsa Jalili, Ali Aghebati Maleki, Hamid Noshad, and Mohammad Reza Ardalan. "The Association of Two Single-Nucleotide Polymorphisms of the Foxp3 Gene (Rs3761548 and Rs3761547) with Renal Allograft Function and Survival in Kidney Transplant Recipients." *Immunopathologia Persa* 7, no. 2 (2020): e21-e21.
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Abstracts

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- Mohammadnejad, L., Baradaran B, **Shanehbandi D.**, Pourhassan-Moghaddam M and Sadreddini S. Cloning and expression of human L- Asparaginase and study of its anti-growth effect on leukemia cell lines. in 15th International Congress of Immunology (ICI), Milan, Italy, 22 Aug - 27 Aug, 2013. 2013. Front. Immunol.

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Conferences

- Cloning and sequencing of Dunaliella PDS gene of Iranian brine lakes, 6th Iranian Biotechnology Congress, 2009, Tehran, Iran.
- Isolation and cloning of Lyc- β gene from Dunaliella (isolate: ABRII Gavkhooni28), 6th Iranian Biotechnology Congress, 2009, Tehran, Iran.
- Cloning of Carbonic anhydrase gene promoter from microalga Dunaliella isolated from Urmia salty lake, 6th Iranian Biotechnology Congress, 2009, Tehran, Iran.

Teaching Experience

- Teaching Biotechnology and Laboratory to Undergraduate Biotechnology Students, (2010).
- Teaching Molecular Biology for Undergraduate and Master's Students, (2011- 2013).
- Teaching Biotechnology, Molecular Biology, Immunology and Immunochemistry techniques to M.Sc. and Ph.D students, Tabriz University of Medical Sciences (2018 - Present).

Programs and Workshops (Organizing and Teaching Experience)

- PCR and Real-time PCR, Aug. 2015, Nutrition Research Center, Tabriz University of Medical Sciences, Tabriz, Iran.
- Bioinformatics and Primer designing, Jan. 2014, Research Development & Coordination Center (RDCC), Tabriz University of Medical Sciences, Tabriz, Iran.
- Molecular Biology Techniques, Aug. 2013, 21st International Iranian Congress of Physiology and Pharmacology, Tabriz University of Medical Sciences, Tabriz, Iran.
- Western Blotting, Aug. 2013, 21st International Iranian Congress of Physiology and Pharmacology, Tabriz University of Medical Sciences, Tabriz, Iran.
- Real-time PCR, Jan. 2014, Research Development & Coordination Center (RDCC), Tabriz University of Medical Sciences, Tabriz, Iran.
- Real-time PCR, Jan. 2015, Immunology Research Center, Tabriz University of Medical Sciences, Tabriz, Iran.

- Comprehensive gene therapy course (genetic engineering, genome engineering, treatment and commercialization), 2 sessions (out of 35), my subjects: "Screening methods for identification of the recombinant cells" and "CRISPR systems: Nuclease, Nickase and dead-Cas technologies", online webinar, November 2022,

and ...

Language Proficiencies

- English, Persian, Turkish