



**Name:** Hassan Dariushnejad

**Date of Birth:** 14 June 1984

**Academic Status:** Assistance Professor

Ph.D: Medical biotechnology, Tabriz University of Medical sciences, Tabriz, Iran 2017

MS: Medical biotechnology, Tabriz University of Medical sciences, Tabriz, Iran 2013

BS: Medical Laboratory, Iran University of Medical Sciences, Tehran, Iran 2009

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## Publications

1. **Dariushnejad H**, Pirzeh L, Roshanravan N, Ghorbanzadeh V. Sodium butyrate and voluntary exercise through activating VEGF-A downstream signaling pathway improve heart angiogenesis in type 2 diabetes. *Microvascular Research*. 2023 Jan 16:104475.
2. Moradipour A, **Dariushnejad H**, Ahmadizadeh C, Lashgarian HE. Dietary flavonoid carvacrol triggers the apoptosis of human breast cancer MCF-7 cells via the p53/Bax/Bcl-2 axis. *Medical Oncology*. 2023;40(1):1-7.
3. Azimi S, Esmail Lashgarian H, Ghorbanzadeh V, Moradipour A, Pirzeh L, **Dariushnejad H**. 5-FU and the dietary flavonoid carvacrol: a synergistic combination that induces apoptosis in MCF-7 breast cancer cells. *Medical Oncology*. 2022 Dec;39(12):1-6.
4. Ghorbanzadeh V, Aljaf KAH, Wasman HM, Pirzeh L, Azimi S, **Dariushnejad H**. Carvacrol Enhance Apoptotic Effect of 5-FU on MCF-7 Cell Line via inhibiting P-glycoprotein: An In-silco and In-vitro Study. *Drug Research*. 2022.
5. **Dariushnejad H**, Chodari L, Sedighi M, Akbari S, Ghorbanzadeh V. Rheumatoid arthritis: current therapeutics compendium. *Endocrine Regulations*. 2022;56(2):148-62.
6. **Dariushnejad H**, Ghorbanzadeh V, Akbari S, Hashemzadeh P. Design of a Novel Recombinant Multi-Epitope Vaccine against Triple-Negative Breast Cancer. *Iranian Biomedical Journal*. 2022;26(2):160.
7. Ghorbanzadeh V, Pourheydar B, **Dariushnejad H**, Ghalibafsabbaghi A, Chodari L. Curcumin improves angiogenesis in the heart of aged rats: Involvement of TSP1/NF- $\kappa$ B/VEGF-A signaling. *Microvascular Research*. 2022;139:104258.

8. Hashemzadeh P, Ghorbanzadeh V. Predicted peptide-based MHC-I, MHC-II, CTL and B-cell epitopes of MUC-1 by immunoinformatics methods: a clue for novel multi-epitope vaccine development against breast cancer. EDIZIONI MINERVA MEDICA. 2021.
9. Ghorbanzadeh V, **Dariushnejad H**, Pourheydar B, Khalaji N, Chodari L. Testosterone Combined with Voluntary Exercise Attenuates Diabetes-induced Pancreatic Apoptosis in Castrated Diabetic Rats Induced by HFD/STZ. Article-Human and Animal Health. 2021.
10. **Dariushnejad H**, Varzi AM, Varezardi A, Azadpour M, Farajollahi MM. Effects of synthetic silymarin-PLGA nanoparticles on M2 polarization and inflammatory cytokines in LPS-treated murine peritoneal macrophages. Iranian Journal of Basic Medical Sciences. 2021.
11. **Dariushnejad H**, Ghorbanzadeh V, Hashemzadeh P. Prediction of B- and T-cell epitopes using in-silico approaches: A solution to the development of recombinant vaccines against COVID-19. Minerva Biotechnology and Biomolecular Research. 2021:36-42.
12. **Dariushnejad H**, Ghorbanzadeh V, Akbari S, Hashemzadeh P. Designing a Multi-epitope Peptide Vaccine Against COVID-19 Variants Utilizing In-silico Tools. Iranian Journal of Medical Microbiology. 2021.
13. Chodari L, Pourheydar B, **Dariushnejad H**, Jamshidi S, Khalaji N, Ghorbanzadeh V. Testosterone Combined with Voluntary Exercise Attenuates Diabetes-induced Pancreatic Apoptosis in Castrated Diabetic Rats Induced by HFD/STZ. Brazilian Archives of Biology and Technology. 2021;64.
14. Valizadeh Otaghsara SM, Ghorbanzadeh V, Esmaeil Lashgarian H, Hashemzadeh P, **Dariushnejad H**. Molecular insight in breast cancer metastasis. Yafteh. 2020;22(2):71-88.
15. Pirmoradi S, **Dariushnejad H**, Ghorbanzadeh V. The Role of Distinct Tumor Micro-Environments in the Heterogeneity of Metabolic Tumor Phenotypes. Yafteh. 2020;21(4).
16. Esmaeil Lashgarian H, Adamii V, Ghorbanzadeh V, Kamali F, **Dariushnejad H**. Silibinin Inhibit Cell Migration through Downregulation of RAC1 Gene Expression in Highly Metastatic Breast Cancer Cell Line. Drug Res (Stuttg). 2020 Aug 13.
17. Hashemzadeh P, ROUZBAHANI AK, Bandehpour M, Kheirandish F, **Dariushnejad H**, Mohamadi M. Designing a recombinant multiepitope vaccine against Leishmania donovani based immunoinformatics approaches. Minerva Biotechnologica. 2020;32(2):52-7.
18. Hashemzadeh P, Ghorbanzadeh V, Valizadeh Otaghsara SM, **Dariushnejad H**. Novel predicted B-cell epitopes of PSMA for development of prostate cancer vaccine. International Journal of Peptide Research and Therapeutics. 2020;26(3):1523-5.
19. Hashemzadeh P, Ghorbanzadeh V, Lashgarian HE, Kheirandish F, **Dariushnejad H**. Harnessing Bioinformatic approaches to design novel multi-epitope subunit vaccine against Leishmania infantum. International Journal of Peptide Research and Therapeutics. 2020;26(3):1417-28.
20. Farajnia S, Ghorbanzadeh V, **Dariushnejad H**. Effect of molecular chaperone on the soluble expression of recombinant fab fragment in E. coli. International Journal of Peptide Research and Therapeutics. 2020;26(1):251-8.
21. **Dariushnejad H**, Chodari L, Ghorbanzadeh V. The Combination Effect of Voluntary Exercise and Crocin on Angiogenic miRNAs in High-Fat Diet/Low-Dose STZ-Induced Type2 Diabetes in Rats: miR-126 and miR-210. Pharmaceutical Sciences. 2020;26(4):379-85.
22. **Dariushnejad H**, Farajnia S, Zarghami N, Aria M, Tanomand A. Effect of DnaK/DnaJ/GrpE and DsbC Chaperons on periplasmic expression of fab antibody by E. coli SEC Pathway. International Journal of Peptide Research and Therapeutics. 2019;25(1):67-74.

23. Chodari L, **Dariushnejad H**, Ghorbanzadeh V. Voluntary wheel running and testosterone replacement increases heart angiogenesis through miR-132 in castrated diabetic rats. *Physiology international*. 2019;106(1):48-58.
24. Yousefi M, Farajnia S, Mokhtarzadeh A, Akbari B, Khosroshahi SA, Mamipour M, **Dariushnejad H**, Ahmadzadeh V. Soluble expression of humanized anti-CD20 single chain antibody in *Escherichia coli* by cytoplasmic chaperones co-expression. *Avicenna journal of medical biotechnology*. 2018 Jul;10(3):141.
25. Roshanravan N, Asgharian P, **Dariushnejad H**, Alamdari NM, Mansoori B, Mohammadi A, et al. Eryngium billardieri induces apoptosis via bax gene expression in pancreatic cancer cells. *Advanced pharmaceutical bulletin*. 2018;8(4):667.
26. **Dariushnejad H**, Mohammadi M, Ghorbanzadeh V. Crocin and voluntary exercise promote heart angiogenesis through Akt and ERK1/2 signalling in type 2 diabetic rats. *Bratislavske lekarske listy*. 2018;119(12):757-61.
27. **Dariushnejad H**, Farajnia S, Zargami N, Khosroshahi SA, Rahbarnia L. DsbC chaperone mediated soluble expression of human TNF-alpha in *E. coli*. *Minerva Biotechnologica*. 2018;30(1):14-21.
28. Sadeghzadeh H, Pilehvar-Soltanahmadi Y, Akbarzadeh A, **Dariushnejad H**, Sanjarian F, Zarghami N. The effects of nanoencapsulated curcumin-Fe<sub>3</sub>O<sub>4</sub> on proliferation and hTERT gene expression in lung cancer cells. *Anti-Cancer Agents in Medicinal Chemistry (Formerly Current Medicinal Chemistry-Anti-Cancer Agents)*. 2017;17(10):1363-73.
29. Ghorbanzadeh V, Mohammadi M, Mohaddes G, **Darishnejad H**, Chodari L. Effect of crocin and voluntary exercise on P53 protein in pancreas of type2 diabetic rats. *Pharmaceutical sciences*. 2017;23(3):182-8.
30. Ghorbanzadeh V, Mohammadi M, **Dariushnejad H**, Abhari A, Chodari L, Mohaddes G. Cardioprotective effect of crocin combined with voluntary exercise in rat: role of mir-126 and mir-210 in heart angiogenesis. *Arquivos brasileiros de cardiologia*. 2017;109:54-62.
31. Chodari L, Mohammadi M, Mohaddes G, Ghorbanzadeh V, **Dariushnejad H**. The effect of testosterone and voluntary exercise, alone or together, on miRNA-126 expression changes in heart of diabetic rats. *Acta Endocrinologica (Bucharest)*. 2017;13(3):266.
32. Akbari B, Farajnia S, Ahdi Khosroshahi S, Safari F, Yousefi M, **Dariushnejad H**, et al. Immunotoxins in cancer therapy: Review and update. *International reviews of immunology*. 2017;36(4):207-19.
33. Rahbarnia L, Farajnia S, Babaei H, Majidi J, **Dariushnejad H**, Hosseini MK. Isolation and characterization of a novel human scFv inhibiting EGFR vIII expressing cancers. *Immunology letters*. 2016;180:31-8.
34. Pazhang Y, Jaliani HZ, Imani M, **Dariushnejad H**. Synergism between NF-kappa B inhibitor, celastrol, and XIAP inhibitor, embelin, in an acute myeloid leukemia cell line, HL-60. *Journal of cancer research and therapeutics*. 2016;12(1):155.
35. Mohammadian F, Abhari A, **Dariushnejad H**, Zarghami F, Nikanfar A, Pilehvar-Soltanahmadi Y, et al. Upregulation of Mir-34a in AGS gastric cancer cells by a PLGA-PEG-PLGA chrysin nano formulation. *Asian Pacific Journal of Cancer Prevention*. 2016;16(18):8259-63.
36. Mohammadian F, Abhari A, **Dariushnejad H**, Nikanfar A, Pilehvar-Soltanahmadi Y, Zarghami N. Effects of chrysin-PLGA-PEG nanoparticles on proliferation and gene expression of miRNAs in gastric cancer cell line. *Iranian journal of cancer prevention*. 2016;9(4).

37. Ghorbanzadeh V, Mohammadi M, Mohaddes G, **Dariushnejad H**, Chodari L, Mohammadi S. Protective effect of crocin and voluntary exercise against oxidative stress in the heart of high-fat diet-induced type 2 diabetic rats. *Physiology international*. 2016;103(4):459-68.
38. Ghorbanzadeh V, Mohammadi M, **Dariushnejad H**, Chodari L, Mohaddes G. Effects of crocin and voluntary exercise, alone or combined, on heart VEGF-A and HOMA-IR of HFD/STZ induced type 2 diabetic rats. *Journal of endocrinological investigation*. 2016;39(10):1179-86.
39. Chodari L, Mohammadi M, Mohaddes G, Alipour MR, Ghorbanzade V, **Dariushnejad H**, et al. Testosterone and voluntary exercise, alone or together increase cardiac activation of AKT and ERK1/2 in diabetic rats. *Arquivos brasileiros de cardiologia*. 2016;107:532-41.
40. Chodari L, Mohammadi M, Ghorbanzadeh V, **Dariushnejad H**, Mohaddes G. Testosterone and voluntary exercise promote angiogenesis in hearts of rats with diabetes by enhancing expression of VEGF-A and SDF-1a. *Canadian journal of diabetes*. 2016;40(5):436-41.
41. Zarouni M, Salehi R, Akbarzadeh A, Samadi N, Davaran S, Ramezani F, **Dariushnejad H**. Biocompatible polymer coated paramagnetic nanoparticles for doxorubicin delivery: synthesis and anticancer effects against human breast cancer cells. *International Journal of Polymeric Materials and Polymeric Biomaterials*. 2015 Nov 12;64(14):718-26..
42. Zohre S, Kazem NK, Abolfazl A, Mohammad RY, Aliakbar M, Effat A, Zahra D, **Hassan D**, Nosratollah Z. Trichostatin A-induced Apoptosis is mediated by Krüppel-like factor 4 in ovarian and lung cancer. *Asian Pacific Journal of Cancer Prevention*. 2014;15(16):6581-6.
43. Rahmati-Yamchi M, Ghareghomi S, Haddadchi G, Milani M, Aghazadeh M, **Daroushnejad H**. Fenugreek extract diosgenin and pure diosgenin inhibit the hTERT gene expression in A549 lung cancer cell line. *Molecular biology reports*. 2014;41(9):6247-52.
44. Ghalhar MG, Akbarzadeh A, Rahmati M, Mellatyar H, **Dariushnejad H**, Zarghami N, et al. Comparison of inhibitory effects of 17-AAG nanoparticles and free 17-AAG on HSP90 gene expression in breast cancer. *Asian Pacific Journal of Cancer Prevention*. 2014;15(17):7113-8.
45. Davoudi Z, Akbarzadeh A, Rahmatiyamchi M, Movassaghpour AA, Alipour M, Nejati-Koshki K, Sadeghi Z, **Dariushnejad H**, Zarghami N. Molecular target therapy of AKT and NF- $\kappa$ B signaling pathways and multidrug resistance by specific cell penetrating inhibitor peptides in HL-60 cells. *Asian Pacific journal of cancer prevention*. 2014;15(10):4353-8.
46. **Dariushnejad H**, Zarghami N, Rahmati M, Ghasemali S, Sadeghi Z, Davoodi Z, et al. ABT-737, synergistically enhances daunorubicin-mediated apoptosis in acute myeloid leukemia cell lines. *Advanced pharmaceutical bulletin*. 2014;4(2):185.
47. **Dariushnejad H**, Karimitabar F, Hamidi M, Ahmadi NA. Cell-Penetrating PEPTIDES (CPPs): A tool in modern biotechnology. *Archives of Advances in Biosciences*. 2014;5(3).
48. Nejati-Koshki K, Akbarzadeh A, Pourhasan-Moghaddam M, Abhari A, **Dariushnejad H**. Inhibition of leptin and leptin receptor gene expression by silibinin-curcumin combination. *Asian Pacific Journal of Cancer Prevention*. 2013;14(11):6595-9.

Professional memberships

### Webometrics address

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ORCID ID:

0000-0003-2477-9461

Google Scholar link:

[https://scholar.google.com/citations?hl=en&user=92wGYqMAAAAJ&view\\_op=list\\_works&sortby=pubdate](https://scholar.google.com/citations?hl=en&user=92wGYqMAAAAJ&view_op=list_works&sortby=pubdate)

### Executive responsibilities

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1- Head of Medical Biotechnology Department, Lorestan University of Medical Sciences, 2020 until now. 2- Academic Editor of Bioinformatics section, BioMed Research International journal, 2020 until now