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EDUCATION:

- **PhD in Pharmaceutical Biotechnology** (2015-2018) Department of Pharmaceutical Biotechnology, School of Pharmacy, Shiraz University of Medical Sciences, Shiraz, Iran
- **MBA in Strategic Marketing** (2012-2014) Industrial Management Institute, Tehran, Iran
- **PharmD** (1991-1998) School of Pharmacy, Shiraz University of Medical Sciences, Shiraz, Iran

PhD DISSERTATION:

Design, Cloning and Expression of a Recombinant Polypeptide Multi-Epitope Potential Vaccine for Prevention of HPV Induced Cervical Cancers and its Immunological Evaluation in Mice

PharmD DISSERTATION:

Preparation and Evaluation of Diclofenac Sodium Microcapsules

RESEARCH INTERESTS:

- Vaccine and Peptide Designing
- *In Silico* Biotechnology
- Pharmaceutical Marketing
- Bioprocess and Fermentation
- Probiotics & Prebiotics

PUBLICATIONS:

1. S Mojtavavi, K Vojdanitalab, **M Negahdaripour**, MR Delnavazi, MA Faramarzi. Preparation, structural characterization, and study on antibiofilm properties of quercetin-barium phosphate nanofibers. Journal of Microbial World, 2023; 16 (1), 29-41.
2. M Zarei, MR Rahbar, S Sabetian, **M Negahdaripour***. Investigating the Thermostability of Mycoplasma Arginine Deiminase: a Protein Simulation Approach. Applied Biochemistry and Microbiology 59 (3), 275-281.

3. A Poustforoosh, S Faramarz, **M Negahdaripour**, B Tüzün, H Hashemipour. Investigation on the mechanisms by which the herbal remedies induce anti-prostate cancer activity: uncovering the most practical natural compound. Journal of Biomolecular Structure and Dynamics 2023, 1-14.
4. A Poustforoosh, S Faramarz, **M Negahdaripour**, B Tüzün, H Hashemipour. Tracing the pathways and mechanisms involved in the anti-breast cancer activity of glycyrrhizin using bioinformatics tools and computational methods. Journal of Biomolecular Structure and Dynamics 2023, 1-15.
5. A Poustforoosh, S Faramarz, **M Negahdaripour**, H Hashemipour. Modeling and affinity maturation of an anti-CD20 nanobody: a comprehensive in-silico investigation. Scientific Reports 2023, 13 (1), 582.
6. M Malekpour, A Jafari, M Kashkooli, SR Salarikia, **M Negahdaripour***. A systems biology approach for discovering the cellular and molecular aspects of psychogenic non-epileptic seizure. Frontiers in Psychiatry 2023, 14.
7. M Hashemzaei, N Nezafat, MB Ghoshoon, **M Negahdaripour***. In-silico selection of appropriate signal peptides for romiplostim secretory production in *Escherichia coli*. Informatics in Medicine Unlocked 2023, 36, 101146.
8. Y Mohammadi, N Nezafat*, **M Negahdaripour***, S Eskandari, M Zamani. In silico design and evaluation of a novel mRNA vaccine against BK virus: a reverse vaccinology approach. Immunologic Research 2022, 1-20.
9. **M Negahdaripour**, B Vakili, N Nezafat. Exosome-based vaccines and their position in next generation vaccines. International Immunopharmacology 2022, 113, 109265.
10. MB Ghoshoon, MJ Raei, MR Shabanpoor, Z Dehghani, N Ebrahimi, A Berenjjan, **M Negahdaripour**, S Hemmati, I Sadeghian, Y Ghasemi. Whole cell immobilization of recombinant *E. coli* cells by calcium alginate beads; evaluation of plasmid stability and production of extracellular L-asparaginase. Separation Science and Technology 2022, 57 (17), 2836-2842.
11. M Zarei, S Sabetian, MR Rahbar, **M Negahdaripour***. Methanol and Sorbitol Affect the Molecular Dynamics of Arginine Deiminase: Insights for Improving its Stability. Current Proteomics 2022, 19 (5), 380-387.
12. H Behboodikhah, E Shorafa, I Karimzadeh, M Moghadami, J Shahmohammadi, M Bayati, K Keshavarz*, **M Negahdaripour***. Evaluation of the Costs and Outcomes of COVID-19 Therapeutic Regimens in Hospitalized Patients in Shiraz. Iranian Journal of Science and Technology, Transactions A: Science 2022, 46 (5), 1339-1347.
13. N Tamjid, S Eskandari, Z Karimi, N Nezafat*, **M Negahdaripour***. Vaccinomics strategy to design an epitope peptide vaccine against *Helicobacter pylori*. Process Biochemistry 2022, 121, 380-395.

14. SA Malekhosseini, Y Ghasemi, J Rousta, R Aghaei, S Kianpour, **M Negahdaripour**, R Heidari, A Shamsaeifar, S Gholami, S Nikeghbalian. Clinical Evaluation of an HTK Solution for Liver Transplantation: A Phase 3 Randomized Pilot Clinical Trial Study. Archives of Iranian Medicine (AIM) 2022, 25 (9).
15. AM Mokhtari, M Barouni, M Moghadami, **M Negahdaripour**, A Mirahmadizadeh. Estimating costs of hepatitis B vaccination in infants: experimental evidence of the expanded program on immunization in Southern Iran. Journal of Public Health 2022, 44 (3), 558-564.
16. I Sadeghian, R Heidari, MJ Raei, **M Negahdaripour***. Cell-penetrating peptide-mediated delivery of therapeutic peptides/proteins to manage the diseases involving oxidative stress, inflammatory response and apoptosis. Journal of Pharmacy and Pharmacology 2022, 74 (8), 1085-1116.
17. B Vakili, N Nezafat, **M Negahdaripour**, Y Ghasemi. A structural vaccinology approach for *in silico* designing of a potential self-assembled nanovaccine against *Leishmania infantum*. Experimental Parasitology 239, 108295.
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19. SR Salarikia, M Kashkooli, MJ Taghipour, M Malekpour, **M Negahdaripour***. Identification of hub pathways and drug candidates in gastric cancer through systems biology. Scientific Reports 2022, 12 (1), 1-15.
20. M Zarei, MR Rahbar, **M Negahdaripour***. Interaction of indole-3-acetic acid with horseradish peroxidase as a potential anticancer agent: from docking to molecular dynamics simulation. Journal of Biomolecular Structure and Dynamics 2022, 40 (9), 4188-4196.
21. **M Negahdaripour**, MR Rahbar, Z Mosalanejad, A Gholami. Theta-defensins to counter COVID-19 as furin inhibitors: *in silico* efficiency prediction and novel compound design. Computational and Mathematical Methods in Medicine 2022.
22. I Sadeghian, R Heidari, S Sadeghian, MJ Raei, **M Negahdaripour***. Potential of cell-penetrating peptides (CPPs) in delivery of antiviral therapeutics and vaccines. European Journal of Pharmaceutical Sciences 2022, 169, 106094.
23. Z Mahdiyari, S Nemati, **M Negahdaripour***. Iranian Journal of Medical Sciences: 2021 Review and 2022 Outlook. Iranian Journal of Medical Sciences 47 (1), 1.
24. SA Fatemi, N Seifi, S Rasekh, S Amiri, SMI Moezzi, A Bagheri, S Fathi, **M Negahdaripour***. Immunotherapeutic approaches for HPV-caused cervical cancer. Advances in Protein Chemistry and Structural Biology 2021, 129, 51-90.

25. MR Rahbar, A Jahangiri, S Khalili, M Zarei, K Mehrabani-Zeinabad, B Khalesi, N Pourzardosht, A Hessami, N Nezafat, S Sadraei, **M Negahdaripour***. Hotspots for mutations in the SARS-CoV-2 spike glycoprotein: A correspondence analysis. Scientific Reports 2021, 11 (1), 23622.
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27. A Bagheri, N Nezafat, M Eslami, Y Ghasemi, **M Negahdaripour***. Designing a therapeutic and prophylactic candidate vaccine against human papillomavirus through vaccinomics approaches. Infection, Genetics and Evolution 2021, 95, 105084.
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29. **M Negahdaripour**, M Shafiekhani, SM Iman Moezzi, S Amiri, Sh Rasekh, A Bagheri, P Mosaddeghi, A Vazin. Administration of COVID-19 vaccines in immunocompromised patients. International Immunopharmacology, 2021, 99, 108021.
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38. **M Negahdaripour***. Fifty Years of Witnessing Biomedical Science Developments. *Iranian Journal of Medical Sciences* 2020; 45 (6), 403.
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40. **M Negahdaripour***. A World of Changes: The Inheritance of COVID-19. *Iranian Journal of Medical Sciences* 2020; 45 (3):155-156.
41. **M Negahdaripour***. The Battle Against COVID-19: Where Do We Stand Now? *Iranian Journal of Medical Sciences* 2020; 45(2):81–82.
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44. M Zarei, MR Rahbar, **M Negahdaripour***. Interaction of indole-3-acetic acid with horseradish peroxidase as a potential anticancer agent: from docking to molecular dynamics simulation. *Journal of Biomolecular Structure and Dynamics*, 2020; 1-9.
45. F Safari, M Sharifi, S Farajnia, B Akbari, M Karimi Baba Ahmadi, **M Negahdaripour**, Y Ghasemi. The interaction of phages and bacteria: the co-evolutionary arms race. *Critical Reviews in Biotechnology*. 2020; 40(2):119-137.
46. S Khajeh, M Eslami, N Nezafat, Z Mostafavi-Pour, **M Negahdaripour**, Y Ghasemi, V Razban. Surveying FDA-approved drugs as new potential inhibitors of N-cadherin protein: a virtual screening approach. *Structural Chemistry*. 2020; 31 (6), 2355-2369.
47. S Kianpour, A Ebrahiminezhad, R Heidari, B Khalvati, MA Shahbazi, **M Negahdaripour**, M Mohkam, R Aghaei, A Berenjian, SV Niknezhad, Y Ghasemi. Enterobacter sp. Mediated Synthesis of Biocompatible Nanostructured Iron-Polysaccharide Complexes: a Nutritional Supplement for Iron-Deficiency Anemia. *Biological Trace Element Research*. 2020; 1-12.

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57. H Owji, N Nezafat, **M Negahdaripour**, A Hajiebrahimi, Y Ghasemi. A comprehensive review of signal peptides: structure, roles, and applications. *European Journal of Cell Biology* 2018; 97(6):422-441.
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61. D Davani Davari, **M Negahdaripour**, I Karimzadeh, M Seifan, M Mohkam, SJ Masoumi, A Berenjjan, Y Ghasemi. Prebiotics: Definition, types, sources, mechanisms, and clinical applications. Foods 2019; 8:92.
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Book Chapter:

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