

Curriculum Vitae

Nahid Zainodini

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Education

PhD, Medical Biotechnology, Iran University of Medical Sciences, 2024

- **Thesis:** Evaluation of TPTE protein expression in tissue biopsies from patients suffering prostate cancer as compared to patients with benign prostatic hyperplasia and targeting cell lines expressed TPTE using produced antibodies

MSc, Cellular and Molecular biology, University of Isfahan, 2012

- **Thesis:** Purification of recombinant Lipid Transfer Proteins from Transformed E.coli and Identification of their Molecular and Biochemical Characteristics

BSc, Cellular and Molecular biology, Kharazmi University, 2008

Awards, Honors and Achievements

- Ranked **Third** in PhD examination in Medical biotechnology in Iran, 2017.
 - The **Second Researcher** at Rafsanjan University of Medical Sciences, Rafsanjan, Iran, 2019.
 - The **Second Researcher** at Rafsanjan University of Medical Sciences, Rafsanjan, Iran, 2015.
 - The **First Researcher** at Rafsanjan University of Medical Sciences, Rafsanjan, Iran, 2014.
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Experience: (projects, jobs, tutoring...)

- **2012 - Present** Researcher at Immunology of Infectious Diseases Research Center, Rafsanjan University of Medical Sciences, Rafsanjan, Iran.
- **2023** Lecturer at IHC technique workshop in the 16th International Congress of Immunology and Allergy, Tehran, Iran.

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- **2022** Lecturer at IHC technique workshop in the allied faculty of the Iran University of Medical Sciences
 - **2012** Instructor at Faculty of Medicine, Rafsanjan University of Medical Sciences, and Rafsanjan, Iran. (Course: Cellular and Molecular Biology).
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Skills

- Immunohistochemistry (IHC)
 - Bacterial and Mammalian Cell Culture
 - Molecular Biology techniques: PCR, Quantitative Real-Time PCR (qPCR), Molecular Cloning, Gel Electrophoresis
 - Protein Analysis: Western Blotting, SDS-PAGE, Affinity Chromatography, ELISA
 - Flow Cytometry
 - Bioinformatics: Protein Structure Analysis, Basic Statistical Programming (R, Python)
 - Statistical Analysis & Data Visualization: GraphPad Prism, SPSS
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Language

- English: Intermediate
 - German: Beginner
 - Persian: Native
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Conferences in national meetings

- Evaluation of Transmembrane Phosphatase with TEnsin Homology expression in prostate cancer tissues. 2023. 16th International Congress of Immunology and Allergy, Iran University of Medical Sciences, Tehran, Iran (Poster).
- Evaluation of Cytotoxic and Apoptogenic Properties of Nisin in Human Astrocytoma Cell Line (SW1088). 2016. 2nd International and 14th Genetics Congress, Tehran, Iran (Poster).
- Induction of Apoptosis by Mir-155 via CIDEA and CIDEB apoptotic Molecules in Jurkat cell line. 2014. 6th International Iranian Congress Laboratory and Clinic, Tehran, Iran (Poster).
- Apoptosis Induction in Jurkat cells by MiR-143 in BIRC2 and BIRC3 independent pathway. 2013. 3rd National Medical Genetics Congress, Tehran, Iran (Poster).
- Molecular mechanisms of tumor angiogenesis. 2012. 2nd National Congress of Hematology, Yazd, Iran (Poster).

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- Optimization of the condition for purification of nonspecific lipid transfer protein 2 (nsLTP2) from transformed E. coli (BL21 strain). 2011. 12th National and 4th International Conference of Biochemistry and Molecular Biology, Mashhad, Iran (Poster).
 - Cloning of non-specific lipid transfer protein (nsLTP2) gene from Oryza Sativa to the E. coli bacteria (BL21 strain). 2011. 2nd National Biology Congress of Iranian young researchers, Tehran, Iran (Oral).
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Publications

- 1- M Mahmoodi, A Jafarzadeh, A Aghaei, M Ramezani, **N Zainodini**, F Sedghy, F Pouya. 2026. Ameliorating Effect of Lavandula Angustifolia on Experimental Autoimmune Encephalomyelitis Symptoms by Modulation of Immune Responses. Advanced Biomedical Research 15(1):4.
- 2- R Nosratabadi, M Ranjkesh, M Safari, M Ramezani, **N Zainodini**. 2024. In Vitro Effects of Curcumin in Free and Phytosomal Forms on the Expression of T Helper1 and Regulatory T Cells' Transcription Factors in Collagen-Induced Arthritis. Advanced Biomedical Research 13, 69.
- 3- S Yousefi, P Basirjafar, R Zandvakili, J Masoumi, **N Zainodini**, et al. 2024. Glycyrrhiza Glabra Extract Modulates Type 1 T Helper (TH1) and Regulatory T Cell-Related Immune Responses in an Animal Model of Breast Cancer. Iranian Journal of Immunology 21 (2), 132-146.
- 4- **N Zainodini**, M Abolhasani, M Mohsenzadegan, MM Farajollahi. E Rismani. 2024. Overexpression of Transmembrane Phosphatase with Tensin homology (TPTE) in prostate cancer is clinically significant, suggesting its potential as a valuable biomarker. Journal of Cancer Research and Clinical Oncology 150 (3), 165.
- 5- P Basirjafar, R Zandvakili, J Masoumi, **N Zainodini**, Z Taghipour, et al. 2024. Leptin/lipopolysaccharide-treated dendritic cell vaccine improved cellular immune responses in an animal model of breast cancer. Immunopharmacology and Immunotoxicology 46 (1), 7385.
- 6- M Mohamadi, P Dousdampanis, Z Ahmadi, S Pourmasumi, M Naderi, **N Zainodini**. 2023. Nut consumption and urogenital and genital, gastrointestinal and women- related cancers: Assessment and review. Chronic Diseases and Translational Medicine 9 (4), 277-287.
- 7- **N Zainodini**, P Dousdampanis, Z Ahmadi, M Mohamadi, A Nazari. 2023. Associations of oxalate consumption and some individual habits with the risk of kidney stones. Chinese Medical Sciences Journal 38 (3), 250-256.

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- 8- J Masoumi, **N Zainodini**, P Basirjafar, T Tavakoli, R Zandvakili, M Nemati, et al. 2023. Apelin receptor antagonist boosts dendritic cell vaccine efficacy in controlling angiogenic, metastatic and apoptotic-related factors in 4T1 breast tumor-bearing mice. *Medical Oncology* 40 (6), 179.
- 9- R Zandvakili, P Basirjafar, J Masoumi, **N Zainodini**, Z Taghipour, et al. 2023. Vaccination with celecoxib-treated dendritic cells improved cellular immune responses in an animal breast cancer model. *Advances in medical sciences* 68 (1), 157-168.
- 10- M Ramezani, ER Zarandi, **N Zainodini**, R Bahramabadi, S Assar. 2022. Effects of nisin on the expression of virulence genes of methicillin-resistant/sensitive *Staphylococcus aureus*. *Iranian Journal of Microbiology* 14 (6), 874.
- 11- M Ramezani, **N Zainodini**, R Nosratabadi, Y Yousefpoor, Z Taghipour, et al. 2022. Phytosomal curcumin alleviates collagen-induced arthritis by downregulating Th17 and upregulating Treg cell responses in rats. *asian Pacific Journal of Tropical Biomedicine* 12 (11), 466-474.
- 12- P Nozari, P Mokhtari, M Nemati, **N Zainodini**, Z Taghipour, F Asadi, et al. 2022 Investigation of the effect of IFN- γ /TNF- α -treated mesenchymal stem cells on Th9-and Treg cell-related parameters in a mouse model of ovalbumin-induced allergic asthma. *Immunopharmacology and immunotoxicology* 44 (5), 773-785.
- 13- M Eini, **N Zainodini**, H Montazeri, P Mirzabeigi, P Tarighi. 2021. A review of therapeutic antibodies in breast cancer. *Journal of Pharmacy & Pharmaceutical Sciences* 24, 363-380.
- 14- **N Zainodini**, MR Hajizadeh, MR Mirzaei. 2021. Evaluation of apoptotic gene expression in hepatoma cell line (HepG2) following nisin treatment. *Asian Pacific Journal of Cancer Prevention: APJCP* 22 (5), 1413.
- 15- G Asadikaram, HAE Meimand, S Noroozi, M Sanjari, **N Zainodini**, et al. 2021. The effect of IFN- β 1a on expression of MDA5 and RIG- 1 in multiple sclerosis patients. *Biotechnology and Applied Biochemistry* 68 (2), 267-271.
- 16- M Taeb, A Jafarzadeh, SS Mortazavi-Jahromi, **N Zainodini**, MR Mirzaei, et al. 2019. Effect of β -D-mannuronic acid (M2000) on oxidative stress enzymes' gene using healthy donor peripheral blood mononuclear cells for evaluating the anti-aging property. *Current drug discovery technologies* 16 (3), 265-27.
- 17- M Ramezani, H Hakimi, **N Zainodini**, A Rahnama, A Sayadi. 2019. Survey on the prevalence of Chlamydia trachomatis and Neisseria gonorrhoeae infections and their possible effects on seminal quality in infertile men. *International Journal of Infection* 6 (4).
- 18- M Ramezani, **N Zainodini**, H Hakimi, ER Zarandi, V Bagheri, et al. 2019. Cell-free culture supernatants of Lactobacilli modify the expression of virulence factors genes in *Staphylococcus aureus*. *Jundishapur Journal of Microbiology* 12 (12).

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- 19- MMY Khorasani, A Yousefi, **N Zainodini**. 2019. NLRP1 and NLRC4 inflammasomes are not responsible for the induction of inflammation in pulp tissues from carious teeth. *Journal of Conservative Dentistry and Endodontics* 22 (1), 12-16.
- 20- MMY Khorasani, P Andam- Shahsavari, **N Zainodini**, H Khoramdelazad, et al. 2018. Association of S100 calcium- binding protein A12, receptor for advanced glycation endproducts, and nuclear factor- κ B expression with inflammation in pulp tissues from tooth caries. *Journal of Investigative and Clinical Dentistry* 9 (1), e12290.
- 21- **N Zainodini**, G Hassanshahi, M Hajizadeh, SK Falahati-Pour, et al. 2018. Nisin induces cytotoxicity and apoptosis in human astrocytoma cell line (SW1088). *Asian Pacific journal of cancer prevention: APJCP* 19 (8), 2217.
- 22- M Ramezani, M Ramezani, G Hassanshahi, M Mahmoodi, **N Zainodini**, et al. 2017. Does the novel class of (2R, 4S)-N-(2, 5-difluorophenyl)-4-hydroxy-1-(2, 2, 2-trifluoroacetyl) pyrrolidine-2-carboxamide's have any effect on cell viability and apoptosis of ... *International Journal of Cancer Management* 10 (6).
- 23- G Asadikaram, S Noroozi, HA Ebrahimi Meimand, M Sanjari, **N Zainodini**, et al. 2017. Interferon- β 1a modulates expression of RAGE but Not S100A12 and nuclear factor- κ B in multiple sclerosis patients. *Neuroimmunomodulation* 23 (5-6), 345-351.
- 24- R Nosratabadi, V Bagheri, M Zare-Bidaki, H Hakimi, **N Zainodini**, et al. 2017. Toll like receptor 4: an important molecule in recognition and induction of appropriate immune responses against Chlamydia infection. *Comparative immunology, microbiology and infectious diseases* 51, 27-33.
- 25- A Askari, R Nosratabadi, M Khaleghinia, **N Zainodini**, D Kennedy, et al. 2016. Evaluation of NLRC4, NLRP1, and NLRP3, as components of inflammasomes, in chronic hepatitis B virusinfected patients. *Viral immunology* 29 (9), 496-501.
- 26- L Zare, MS Fathollahi, MK Arababadi, A Shamsizadeh, B Daneshpajouh, **N Zainodini**, et al. 2016. The association between C424c/A polymorphism within the IL-25 gene and multiple sclerosis. *Iranian Red Crescent Medical Journal* 18 (9) 4.
- 27- Z Ahmadi, G Hassanshahi, H Khorramdelazad, **N Zainodini**, et al. 2016. An overlook to the characteristics and roles played by eotaxin network in the pathophysiology of food allergies: allergic asthma and atopic dermatitis. *Inflammation* 39, 1253-1267.
- 28- T Zavari, S Mirzaei, M Rezaeian, **N Zainodini**, M Zare-Bidaki. 2015. A study of the seroprevalence of IgG and IgM immunoglobulins against *Toxoplasma gondii* in pregnant women referred to niknafs maternity ward of Rafsanjan city and in umbilical cord of their infants in 2013. *Journal of Rafsanjan University of Medical Sciences* 14 (6), 507-518.

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- 29- A Manshoori, S Mirzaei, Z Valadkhani, MK Arababadi, M Rezaeian, **N Zainodini**, et al. 2015. A diagnostic and symptomatological study on trichomoniasis in symptomatic pregnant women in Rafsanjan, South Central Iran in 2012-13. *Iranian journal of parasitology* 10 (3), 490.
- 12
- 30- M Radman, A Golshiri, A Shamsizadeh, **N Zainodini**, V Bagheri, et al. 2015. Toll-like receptor 4 plays significant roles during allergic rhinitis. *Allergologia et immunopathologia* 43 (4), 416-420.
- 31- M Mobini, S Mirzaie, H Khorramdelazad, **N Zainodini**, Z Sabzali, M Ghyasi, et al. 2015. Association of cord blood levels of IL-17A, but not TGF- β with pre-term neonate. *Iranian journal of reproductive medicine* 13 (6), 345.
- 32- M Zare-Bidaki, M Karimi-Googheri, G Hassanshahi, **N Zainodini**, et al. 2015. The frequency of CCR5 promoter polymorphisms and CCR5 Δ 32 mutation in Iranian populations. *Iranian journal of basic medical sciences* 18 (4), 312.
- 33- H Hakimi, **N Zainodini**, H Khorramdelazad, MK Arababadi, et al. 2014. Seminal levels of pro-inflammatory (CXCL1, CXCL9, CXCL10) and homeostatic (CXCL12) chemokines in men with asymptomatic Chlamydia trachomatis infection. *Jundishapur journal of microbiology* 7 (12).
- 34- **N Zainodini**, ZB Mohammad, SH Abdollahi, M Afrooz, N Ziaali, et al. 2014. Molecular and serological detection of acute and latent toxoplasmosis using real-time PCR and ELISA techniques in blood donors of Rafsanjan City, Iran, 2013. *Iranian Journal of Parasitology* 9 (3), 336.
- 35- Hakimi, M Zare-Bidaki, **N Zainodini**, S Assar, MK Arababadi. 2014. Significant Roles Played by IL-10 in Chlamydia Infections. *Inflammation* 37, 818-823.
- 36- M Zare-Bidaki, H Hakimi, SH Abdollahi, **N Zainodini**, MK Arababadi, et al. 2014. TLR4 in Toxoplasmosis; friends or foe?. *Microbial pathogenesis* 69, 28-32.
- 37- AR Sharifabadi, G Hassanshahi, SR Ghalebi, MK Arababadi, **N Zainodini**, et al. 2014. All eotaxins CCL11, CCL24 and CCL26 are increased but to various extents in pulmonary tuberculosis patients. *Clinical laboratory* 60 (1), 93-97.
- 38- M Momeni, **N Zainodini**, R Bidaki, G Hassanshahi, H Daneshvar, et al. 2014. Decreased expression of toll like receptor signaling molecules in chronic HBV infected patients. *Human immunology* 75 (1), 15-19.
- 39- F Ayooobi, G Hassanshahi, **N Zainodini**, H Khorramdelazad, MK Arababadi, et al. 2013. Reduced expression of TRIF in chronic HBV infected Iranian patients. *Clinics and research in hepatology and gastroenterology* 37 (5), 491-495.

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- 40- M Momeni, MR Mirzaei, **N Zainodini**, G Hassanshahi, et al. 2013. MiR-143 induces expression of AIM2 and ASC in Jurkat cell line. Iranian Journal of Immunology 10 (2), 103-109.
- 41- **N Zainodini**, G Hassanshahi, M Kazemi Arababadi, H Khorramdelazad, et al. 2013. Differential expression of CXCL1, CXCL9 CXCL10 and CXCL12 chemokines in alopecia areata. Iranian Journal of Immunology 10 (1), 40-46.
- 42- **N Zainodini**, M Miroliaei, K Ghaedi, JM Seyed. 2011. Opimization of the condition for purificatoin of non-specific lipid transfer protein2 (nsLTP2) from transformed E. coli (BL21 strain). Clinical Biochemistry 13 (44), S279.