

CURRICULUM VITAE

Personal Information:

Name: Nasim Kheshtchin

Academic Rank: Assistant Professor

Contact Information:

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EDUCATIONS:

B.Sc. Cellular and Molecular Biology, Kharazmi University, Tehran, Iran, 2004

M.Sc. Immunology, Isfahan University of Medical Sciences, Isfahan, Iran, 2009

Dissertation title: The Expression of Th1- and Th2-Related Chemokine Receptors in Women with Recurrent Miscarriage: the Impact of Lymphocyte Immunotherapy

Ph.D. Immunology, Tehran University of Medical Sciences, Tehran, Iran, 2016

Dissertation title: Effect of hypoxia inducible factor-1 α (HIF-1 α) inhibition on efficacy of dendritic cell vaccines in experimental model of melanoma

HONORS:

1st rank in National Ph.D. Entrance Exam (Immunology)

Experiences:

Assistant professor

- Department of Immunology, Shiraz University of Medical Sciences, Faculty of Medicine, Shiraz, Iran, 2020
- Allergy Research Center, Shiraz University of Medical Sciences, Shiraz, Iran, 2020

PUBLICATIONS:

- Zahra Kanannejad, **Nassim Kheshtchin**, Hesamedin Nabavizadeh, The Immunomodulatory Role of Seminal Plasma in Endometrial Receptivity and Embryo Implantation. *American Journal of Clinical and Experimental Immunology*, in press.
- Zahra Kanannejad, Samaneh Arab, Saeede Soleimanian, Amirhossein Mazare, **Nassim Kheshtchin**. Exosomes in asthma: Underappreciated contributors to the pathogenesis and novel therapeutic tools. *Immun Inflamm Dis*. 2024 Jun;12(6):e1325.
- **Nassim Kheshtchin**, Zahra Kanannejad, Zahra Ghahramani, Hossein Esmaeilzadeh, Najmeh Sepahi. Balancing immune responses: regulatory cells in eosinophilic gastrointestinal disorders. *Front Immunol*. 2024 Jul 29;15:1372009.
- Sepehr Dehghan, **Nasim Kheshtchin**, Shaghayegh Hassannezhad, Maryam Soleimani. Cell death classification: A new insight based on molecular mechanisms. *Experimental Cell Research*. 2023;113860.
- Niloofar Mashhadi, Leila Kasraian, Hamed Ghoddusi Johari, Ahmad Hosseinzadeh, **Nasim Kheshtchin**, Mehrnoosh Doroudchi. Senescent CD153⁺ T Lymphocytes Increase in the Peripheral Blood of Patients with Thromboangiitis Obliterans. *Iranian Journal of Immunology*. 2023;20(3):262-75.
- Zahra Kanannejad, Saeede Soleimanian, Zahra Ghahramani, Najmeh Sepahi, Milad Mohkam, Soheila Alyasin, **Nasim Kheshtchin**. Immune checkpoint molecules in prevention and development of asthma. *Frontiers in Immunology*. 2023;14:1070779.
- Sarah Rahbar, Sajad Shafiekhani, Armin Allahverdi, Arezoo Jamali, **Nasim Kheshtchin**, Maryam Ajami, Zahra Mirsanei, Sima Habibi, Bahador Makkiabadi, Jamshid Hadjati, Amir Homayoun Jafari . Agent-based modeling of tumor and immune system interactions in combinational therapy with low-dose 5-fluorouracil and dendritic cell vaccine in melanoma B16F10. *Iranian Journal of Allergy, Asthma and Immunology*. 2022;21(2):151-66.

- **Nasim Kheshtchin**, Parisa Bakhshi, Samaneh Arab, Maryam Nourizadeh. Immunoediting in SARS-CoV-2: Mutual relationship between the virus and the host. *International immunopharmacology*. 2022;105:108531.
- **Nasim Kheshtchin**, Jamshid Hadjati. Targeting hypoxia and hypoxia-inducible factor-1 in the tumor microenvironment for optimal cancer immunotherapy. *Journal of cellular physiology*. 2022;237(2):1285-98.
- Zand, Bahareh, Samaneh Arab, **Nasim Kheshtchin**, Abazar Arabameri, Mahboubeh Ashourpour, Davoud Asemani, Ehsan Sharif-Paghaleh, Farshid Noorbakhsh, and Jamshid Hadjati. Identification of the optimal pattern of the injection and dosage of DC immunotherapy using the mathematical models based on ordinary differential equations. *Iranian Journal of Immunology*. 2022: 19(1):1-17.
- Zahra Mirsanei, Sima Habibi, **Nasim Kheshtchin**, Reza Mirzaei, Samaneh Arab, Bahareh Zand, Farhad Jadidi-Niaragh, Aida Safvati, Ehsan Sharif-Paghaleh, Abazar Arabameri, Davud Asemani, Jamshid Hajati. Optimized Dose of Dendritic Cell-based Vaccination in Experimental Model of Tumor Using Artificial Neural Network. *Iran J Allergy Asthma Immunol*. 2020;19(2):172-182.
- Najmeh Khosravianfar, Jamshid Hadjati, Afshin Namdar, Roobina Boghozian, Morteza Hafezi, Mahboubeh Ashourpour, **Nasim Kheshtchin**, Mahsa Banitalebi, Reza Mirzaei, Seyed Alireza Razavi. Myeloid-derived suppressor cells elimination by 5-fluorouracil increased dendritic cell-based vaccine function and improved immunity in tumor mice. *Iran J Allergy Asthma Immunol*. 2018;17(1):47-55.
- **Nasim Kheshtchin**, Samaneh Arab, Jamshid Hadjati, Blockade of Hypoxia: The Impact on Tumor Growth in an Experimental Tumor Model. *Immunoregulation*. 2018;1(3):153-158.
- Samaneh Arab, **Nasim Kheshtchin**, Jamshid Hadjati, Mohammad H. Ghahramani. Increased Efficacy of a Dendritic Cell-Based Therapeutic Cancer Vaccine with Adenosine Receptor Antagonist and CD73 Inhibitor. *Tumor Biology*. 2017;39(3):1010428317695021
- Farhad Jadidi-Niaragh, Fatemeh Atyabi, Ali Rastegari, **Nasim Kheshtchin**, Samaneh Arab, Hadi Hassannia, Maryam Ajami, Zahra Mirsanei, Sima Habibi, Farimah Masoumi, Farshid Noorbakhsh,

Fazel Shokri, Jamshid Hadjati. CD73 Specific siRNA loaded Chitosan Lactate Nanoparticles Potentiate the Antitumor Effect of a Dendritic Cell Vaccine in 4T1 Breast Cancer Bearing Mice. *Journal of Controlled Release*. 2017;246:46-59

- **Nasim Kheshtchin**, Samaneh Arab, Maryam Ajami, Reza Mirzaei, Mahboubeh Ashourpour, Neda Mousavi, Najmeh Khosravianfar, Farhad Jadidi-Niaragh, Afshin Namdar, Farshid Noorbakhsh, Jamshid Hadjati. Inhibition of HIF-1 α enhances anti-tumor effects of dendritic cell based vaccination in a mouse model of breast cancer. *Cancer Immunol Immunother*, 2016; 65(10):1159-67
- Mahboubeh Ashourpour, Afshin Namdar, **Nasim Kheshtchin**, Morteza Hafezi, Najmeh Khosravianfar, Maryam Ajami, Bahram Delfan, Yaser Azizi, Samaneh Arab, Reza Mirzaei, Abbas Mirshafiey, Jamshid Hadjati, Alireza Razavi. Olive leaf extract reduces myeloid-derived suppressor cells, and modulates the function of residual cells in experimental model of melanoma. *J Clin Exp Oncol*, 2016; 5:3
- Neda Mousavi Niri, Arash Memarnejadian, Younes Pilehvar Soltanmoradi, Mehdi Mahdavi, **Nasim Kheshtchin**, Samaneh Arab, Afshin Namdar, Farhad Jadidi, Nosratollah Zarghami, Jamshid Hajati. Improved Anti-Treg Vaccination Targeting Foxp3 Efficiently Decreases Regulatory T Cells in Mice. *J Immunother*, 2016; 39(7):269-75.
- Farhad Jadidi-Niaragh, Fatemeh Atyabi, Ali Rastegari, Esmail Mollarazi, Melika Kiani, Alireza Razavi, Mehdi Yousefi, **Nasim Kheshtchin**, Hadi Hassannia, Jamshid Hadjati, Fazel Shokri. Downregulation of CD73 in 4T1 Breast Cancer Cells through siRNA-Loaded Chitosan-Lactate Nanoparticles. *Tumor Biol*. 2016; 37(6):8403-12.
- Afshin Namdar, Hamid R. Mirzaei, Morteza Hafezi, Najmeh Khosravianfar, **Nasim Kheshtchin**, Reza Mirzaei, Jamshid Hadjati, Abbas Rezaei, Low Noncytotoxic Concentrations of 5-Fluorouracil Have no Adverse Effects on Maturation and Function of Bone Marrow Derived Dendritic Cells in vitro: A Potentially Safe Adjuvant for Dendritic Cell-Based Cancer Therapy. *International Archives of Allergy and Immunology*. 2015; 168:122-130.
- Aida Safvati, Armin Allahverdy, Shabnam Zandi, Sarah Rahbar, Hamid Reza Mirzaei, Zahra Mirsanei, **Nassim Kheshtchin**, Samaneh Arab, Maryam Ajami, Sima Habibi, Jamshid Hadjati, Amir

Homayoun Jafari. A Predictive Approach for the Tumor-Immune System Interactions Based on an Agent Based Modeling. *Front Biomed Tech.* 2015;2(4) 214-226.

- **Nasim Kheshtchin**, Marjan Gharagozloo, Alireza Andalib, Ataollah Ghahiri, Mohammad R. Maracy, Abbas Rezaei. The Expression of Th1- and Th2-Related Chemokine Receptors in Women with Recurrent Miscarriage: the Impact of Lymphocyte Immunotherapy. *American Journal of Reproductive Immunology.* 2010; 64(2):104–112.

Presentation in International Congress:

- The expression of Th1- and Th2-related chemokine receptors in women with recurrent spontaneous abortion: The impact of lymphocyte immunotherapy, 14th International Congress of Immunology (ICI 2010), Kobe, Japan.
- Blockade of hypoxia inducible factor: The impact on tumor growth in mouse model of melanoma, 12th International Congress of Immunology and Allergy (2014), Tehran, Iran
- 5-fluorouracil modulates the function of myeloid derived suppressor cells in melanoma bearing mice, 12th International Congress of Immunology and Allergy (2014), Tehran, Iran
- Olive leaf extract affects frequency and function of myeloid-derived suppressor cells in experimental model of melanoma, 12th International Congress of Immunology and Allergy (2014), Tehran, Iran

Journal Review Activities:

- Iranian Journal of Allergy, Asthma and Immunology (IJAA)
- Iranian Journal of Immunology (IJI)
- Oncotarget
- Clinical and Translational Oncology (CLAT)
- Frontiers in Immunology