

# CURRICULUM VITAE

## Personal Information:

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**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 $\alpha$  (HIF-1 $\alpha$ ) 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:

- Dehghan S, **Kheshtchin N**, Hassannezhad S, Soleimani M. Cell death classification: A new insight based on molecular mechanisms. *Experimental Cell Research*. 2023;113860.
- Mashhadi N, Kasraian L, Ghoddusi Johari H, Hosseinzadeh A, **Kheshtchin N**, Doroudchi M. Senescent CD153+ T Lymphocytes Increase in the Peripheral Blood of Patients with Thromboangiitis Obliterans. *Iranian Journal of Immunology*. 2023;20(3):262-75.
- Kannejad Z, Soleimani S, Ghahramani Z, Sepahi N, Mohkam M, Alyasin S, **Kheshtchin N**. Immune checkpoint molecules in prevention and development of asthma. *Frontiers in Immunology*. 2023;14:1070779.
- Rahbar S, Shafiekhani S, Allahverdi A, Jamali A, **Kheshtchin N**, Ajami M, Mirsanei Z, Habibi S, Makkiabadi B, Hadjati J, Jafari AH. 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.
- **Kheshtchin N**, Bakhshi P, Arab S, Nourizadeh M. 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.
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- 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 $\alpha$  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)