

Curriculum Vitae

1. Personal Information:

Name Mohsen
Surname Tehrani
Father name Hossein
Date of birth Sep 06, 1974
Place of birth Tehran, Iran
Sex Male
Nationality Iranian
Hobbies Listening to music



2. Addresses:

Residential Sari- Iran
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3. Educations: M.D., Mashhad University of Medical Sciences, Mashhad, Iran,
 1993-2000.
 Ph.D. in Immunology, Mashhad University of Medical Sciences,
 Mashhad, Iran, 2005-10.
 Postdoctoral fellowship. Immunology lab, Schepens Eye Research
 Institute, Harvard Medical School, Boston, MA, USA. 2015-16

4. Current position:

Associate Professor of Immunology, Department of Immunology, School of Medicine,
Mazandaran University of Medical Sciences, Sari, Mazandaran, Iran.

5. Current research projects:

- Investigation of the number and function of Tregs, MDSCs, and NKT cells in patients with gastric ulcer and gastric cancer due to *Helicobacter pylori* infection.
- Investigation of level of expression of CD1d, NOD-1, and NOD-2 in patients with gastric ulcer and gastric cancer due to *Helicobacter pylori* infection.
- Frequency and functional characterization of exhausted T cells in patients with Leukemias.

6. Professional experience:

Clinical Experience:

- General Practitioner, 2001-2005

Research experience:

- Innate immunity against bacterial and viral Pathogens
- Characterization, cloning and expression of common allergenic proteins
- Investigation of innate immune markers in patients with gastric cancer

Technical experience:

Immunology methods:

- Flow cytometry
- Developing of ELISA
- SDS-PAGE, Western Blotting
- Protein Purification
- Affinity Chromatography, Ion exchange chromatography
- Production of polyclonal antibodies

Molecular biology methods:

- cDNA cloning into different vectors
- Production of the recombinant proteins
- Different methods of DNA and RNA extraction, cDNA synthesis
- Developing RT-PCR, Multiplex PCR, and Real-time PCR
- Gene array Technology, including DNA Hybridization and Chemiluminescent Detection

Other methods:

- Tissue Culture of a variety of mammalian cells including white blood cells, cell lines, etc.

7. Publications (Books):

- Khorramizadeh MR, Falak R, **Tehrani M**, Brook A; Principals of tissue culture techniques: Tehran University Publications, TUMS, Tehran, Iran, 2009 (Persian)
- One chapter in: Varasteh A, et al. Practical Immunology. Mashhad: Varastegan Publishing, 2010 (Persian)

8. Publications (Articles):

8.1. Publications in Cancer Immunology

- Valadan R, Rafiei A, **Tehrani M**, Nejatollahi F. Resistance to HER2-targeted therapy. *Res Mol Med* 2013;1(1):1-9.
- Taghizadeh S, Sankian M, Ajami A, **Tehrani M**, Hafezi N, Mohammadian R, Farazmandfar T, Hosseini V, Abbasi A, Ajami M. Expression levels of vascular endothelial growth factors a and C in patients with peptic ulcers and gastric cancer. *J Gastric Cancer* 2014 Sep;14(3):196-203. PubMed PMID: 25328765.
- Hedayatizadeh-Omran A, Valadan R, Rafiei A, Ajami A, **Tehrani M**, Alizadeh-navaei R. Generation of CHO Stable Cell Line Overexpressing HER2 : an In Vitro Model for Breast Cancer. *Res Mol Med* 2015;3(3):6-10.
- Hedayatizadeh-Omran A, Rafiei A, Alizadeh-Navaei R, **Tehrani M**, Valadan R, Moradzadeh K, Panbechi M, Taghavi SM. Role of HER2 in brain metastasis of breast cancer: a systematic review and meta-analysis. *Asian Pac J Cancer Prev* 2015;16(4):1431-4. PubMed PMID: 25743811.
- Hafezi N, Ajami A, Farazmandfar T, Hosseini V, Alizadeh-Navaei R, **Tehrani M (Corresponding Author)**. Increased Expression of Two Alternative Spliced Variants of CD1d Molecule in Human Gastric Cancer. *Iran J Immunol* 2015 Jun;12(2):129-40. PubMed PMID: 26119195.

- Hedayatizadeh-Omran A, Valadan R, Rafiei A, **Tehrani M**, Alizadeh-Navaei R. VERO Stable Cell Lines Expressing Full-Length Human Epidermal Growth Factor Receptors 2 and 3: Platforms for Subtractive Phage Display. *DNA Cell Biol* 2015 Sep;34(9):573-8. PubMed PMID: 26121156.
- Shadman M, Rajabian Z, Ajami A, Hussein-Nattaj H, Rafiei A, Hosseini V, Taghvaei T, Abbasi A, **Tehrani M (Corresponding Author)**. Frequency of $\gamma\delta$ T Cells and invariant Natural Killer T Cells in *Helicobacter pylori*-infected Patients with Peptic Ulcer and Gastric cancer. *Iran J Allergy Asthma Immunol* 2015 Oct;14(5):493-501. PubMed PMID: 26742438.
- Mesali H, Ajami A, Hussein-Nattaj H, Rafiei A, Rajabian Z, Asgarian-Omran H, Hosseini V, Taghvaei T, **Tehrani M (Corresponding Author)**. Regulatory T Cells and myeloid-derived suppressor cells in patients with peptic ulcer and gastric cancer. *Iran J Immunol* 2016 Sep;13(3):167-77. PubMed PMID: 27671508.
- Mohammadian Amiri R, **Tehrani M**, Taghizadeh S, shokri-shirvani J, Fakheri H, Ajami A. Association of Nucleotide-binding Oligomerization Domain Receptors with Peptic Ulcer and Gastric Cancer. *Iran J Allergy Asthma Immunol* 2016 Oct; 15(5): 355-362. PubMed PMID: 27917621.
- Hedayatizadeh-Omran A., Rafiei A., Janbabaei G., Ajami A., Valadan R., Alizadeh-Navaei R., **Tehrani M**., Omrani-Nava V., Ahmadi A. Production of antibodies against HER2 and HER3 receptors in breast cancer treatment and the superior effect of the synchronous blockade of these receptors. *WCRJ* 2016; 3 (4): e810.
- Naghavi-Alhosseini M, **Tehrani M**, Ajami A, Rafiei A, Taghvaei T, Vahedi-Larijani L, Hossein-Nataj H, Asgarian-Omran H. Tim-3 Up-regulation in Patients with Gastric Cancer and Peptic Ulcer Disease. *Asian Pac J Cancer Prev.* 2017 Mar 1;18(3):765-770. PubMed PMID: 28441784.

- Taghiloo S, Allahmoradi E, **Tehrani M**, Hossein-Nataj H, Shekarriz R, Janbabaei G, Abediankenari S, Asgarian-Omran H. Frequency and functional characterization of exhausted CD8(+) T cells in chronic lymphocytic leukemia. *Eur J Haematol.* 2017 Jun;98(6):622-631. PubMed PMID: 28306177.
- Taghiloo S, Allahmoradi E, Ebadi R, **Tehrani M**, Hosseini-Khah Z, Janbabaei G, Shekarriz R, Asgarian-Omran H. Upregulation of Galectin-9 and PD-L1 Immune Checkpoints Molecules in Patients with Chronic Lymphocytic Leukemia. *Asian Pac J Cancer Prev.* 2017 Aug 27;18(8):2269-2274. PubMed PMID: 28843266.
- Allahmoradi E, Taghiloo S, **Tehrani M**, Hossein-Nattaj H, Janbabaei G, Shekarriz R, Asgarian-Omran H. CD4+ T Cells Are Exhausted and Show Functional Defects in Chronic Lymphocytic Leukemia. *Iran J Immunol.* 2017 Dec;14(4):257-269. PubMed PMID: 29276179.

8.2. Publications in Allergy

- **Tehrani M**, Sankian M, Assarehzadegan MA, Falak R, Jabbari F, Varasteh A. Immunochemical Characterization of *Amaranthus retroflexus* Pollen Extract: Extensive Cross-reactive Allergenic Components among the Four Species of Amaranthaceae/Chenopodiaceae. *Iran J Allergy Asthma Immunol* 2010 Jun; 9(2):87-95. PubMed PMID: 20683102.
- Assarehzadegan MA, Sankian M, Jabbari F, **Tehrani M**, Falak R, Varasteh A. Identification of methionine synthase (Sal k 3), a new allergen of *Salsola kali* pollen. *Mol Biol Rep* 2011 Jan;38(1):65–73. PubMed PMID: 20238167.
- Assarehzadegan MA, Sankian M, Jabbari F, **Tehrani M**, Varasteh A. Expression of the Major Allergen of *Salsola kali* Pollen (Sal k 1) and Comparison with its Low-immunoglobulin E-binding Mutant. *Allergol Int* 2010 Jun;59(2):213-22. PubMed PMID: 20414052.
- Assarehzadegan MA, Sankian M, Jabbari F, **Tehrani M**, Varasteh A. Sal k 4, a new allergen of *Salsola kali*, is profilin: a predictive value of conserved conformational regions in cross-reactivity with other plant-derived profilins *Biosci Biotechnol Biochem* 2010 Jul;74(7):1441-6. PubMed PMID: 20622444.

- **Tehrani M**, Sankian M, Assarehzadegan MA, Falak R, Noorbakhsh R, Moghadam M, Jabbari F, Varasteh A. Identification of a New of Allergen from *Amaranthus retroflexus* Pollen, *Allergol Int* 2011 Sep; 6(3):309-16. PubMed PMID: 21430432.
- Abedini S, Sankian M, Shirazi F, Talebi F, Falak R, **Tehrani M**, Varasteh A. An approach for detection and quantification of fruits' natural profilin: natural melon profilin as a model. *Food Agric Immunol* 2011 Mar;22(1):47-55.
- Noorbakhsh R, Mortazavi SA, Sankian M, Shahidi F, **Tehrani M**, Jabbari F, Behmanesh F, Varasteh A. Pistachio allergy-prevalence and in vitro cross-reactivity with the other nuts. *Allergol Int* 2011 Dec;60(4):425-32. PubMed PMID: 21593580.
- Falak R, Sankian M, Noorbakhsh R, **Tehrani M**, Assarehzadegan MA, Jabbari F, Abolhasani A, Varasteh A. Identification and characterisation of main allergic proteins in *Vitis vinifera* vitis. *Food Agric Immunol* 2012, DOI: 10.1080/09540105.2012.683167.
- Falak R, Sankian M, **Tehrani M**, Jabbari F, Abolhasani A, Varasteh A. Clinical and Laboratory Investigation of Oral Allergy Syndrome to Grape. *Iran J Allergy Asthma Immunol* 2012 Jun;11(2):147-55. PubMed PMID: 22761188.

8.3. Other publications

- Rafatpanah H, Rezaee A, Etemadi MM, Hosseini RF, Khorram B, Afsahr L, Taylor G, Mokhber N, Mahmoudi M, Abbaszadegan MR, Foroghiyor M, Hashemi P, Amiri A, **Tehrani M**, Azarpazhooh A, Azarpazhooh MR. The impact of interferon-alpha treatment on clinical and immunovirological aspects of HTLV-1-associated myelopathy in northeast of Iran. *J Neuroimmunol* 2012 Sep;250(1-2):87-93. PubMed PMID: 22727800.
- Rafiei A, Abedini M, Hosseini SH, Hosseini-Khah Z, Bazrafshan B, **Tehrani M**. Toll Like Receptor-4 896A/G Gene Variation, a Risk Factor for Migraine Headaches. *Iran J Immunol* 2012 Sep;9(3):159-67. PubMed PMID: 23023380.

- Nowroozpoor-Dailami K, Mirabi AM, **Tehrani M**, Ajami A. Aqueous humor and serum concentrations of soluble MICA and MICB in glaucoma patients. *Iran J Immunol* 2014 Dec;11(4):275-81. PubMed PMID: 25549595.
- Valadan R, Hedayatizadeh-Omran A, Alhosseini-Abyazani MN, Amjadi O, Rafiei A, **Tehrani M**, Alizadeh-Navaei R. Data supporting the design and evaluation of a universal primer pair for pseudogene-free amplification of HPRT1 in real-time PCR. *Data Brief* 2015 Jul 6;4:384-9. PubMed PMID: 26217821.
- Valadan R, Amjadi O, **Tehrani M**, Rafiei A, Hedayatizadeh-Omran A, Alizadeh-Navaei R. Pseudogene-free amplification of HPRT1 in quantitative reverse transcriptase polymerase chain reaction. *Anal Biochem* 2015 Sep 15;485:46-8. PubMed PMID: 26050630.
- Mashaghi A, Marmalidou A, **Tehrani M**, Grace PM, Pothoulakis C, Dana R. Neuropeptide substance P and the immune response. *Cell Mol Life Sci* 2016 Nov;73(22):4249-4264. PubMed PMID: 27314883.
- Mohammadi M, Zare Z, Allah-Moradi E, Vaezi N, Valadan R, **Tehrani M (Corresponding Author)**. Alterations in mRNA and protein expression of glutamate transporters in rat hippocampus after paraoxon exposure. *Neurotoxicology* 2016 Dec;57:251-257. PubMed PMID: 27769869.
- Talaei A, Tavakkol Afshari J, Fayyazi Bordbar MR, Pouryousof H, Faridhosseini F, Saghebi A, Rezaei Ardani A, Talaei A, **Tehrani M**. A Study on the Association of Interleukin-1 Cluster with Genetic Risk in Bipolar I Disorder in Iranian Patients: A Case-control Study. *Iran J Allergy Asthma Immunol.* 2016 Dec;15(6):466-475. PubMed PMID: 28129679.
- Ahmadpour E, Sarvi S, Hashemi Soteh MB, Sharif M, Rahimi MT, Valadan R, **Tehrani M**, Khalilian A, Montazeri M, Fasihi-Ramandi M, Daryani A. Enhancing immune responses to a DNA vaccine encoding *Toxoplasma gondii*

GRA14 by calcium phosphate nanoparticles as an adjuvant. *Immunol Lett.* 2017 May;185:40-47. PubMed PMID: 28286231.

- Zare Z, **Tehrani M**, Rafiei A, Valadan R, Mohammadi M. Differential expression of glutamate transporters in cerebral cortex of paraoxon-treated rats. *Neurotoxicol Teratol* 2017 Jul;62:20-26. PubMed PMID: 28603072.

9. Abstracts in Scientific Meetings:

- **Tehrani M**, Sankian M, Assarehzadegan MA, Falak R, Noorbakhsh R, Moghadam M, Jabbari F, Noori HR, Roozbeh Nasiraei L, Varasteh A. Identification of a new allergen from amaranthus retroflexus pollen, cobalamin-independent methionine synthase. *World Allergy Forum. 30th Congress EAACI. Istanbul. June 11-15, 2011.*
- Falak R, Sankian M, Ketabdar H, **Tehrani M**, Roozbeh L, Moghadam M, Varasteh A. Expression of a grape allergen in SF9 cells. *World Allergy Forum. 11th Congress EAACI. Istanbul. June 11-15, 2011.*
- Noori HR, Varasteh A, Afsharzadeh D, **Tehrani M**, Roozbeh Nasiraei L, Sankian M. Diagnosis of *Chenopodium album* allergy with a cocktail of recombinant allergens as a tool for component-resolved diagnosis. *World Allergy Forum. 30th Congress EAACI. Istanbul. June 11-15, 2011.*
- Alaeddini B, Roozbeh Nasiraei L, Basirinezhad M, Ketabdar H, Falak R, **Tehrani M**, Varasteh A. Recent trends in treatment strategies and the usage of different probiotics bacteria. *World Allergy Forum. 30th Congress EAACI. Istanbul. June 11-15, 2011.*
- Varasteh A, Sankian M, Falak R, Noorbakhsh R, Assarehzadegan MA, **Tehrani M**, Abolhasani A, Jabbari F. Molecular cloning of grape chitinase. *World Allergy Forum. 30th Congress EAACI. Istanbul. June 11-15, 2011.*
- Falak R, Sankian M, **Tehrani M**, Jabbari F, Abolhasani A, Varasteh A. Component-resolved diagnosis of grape allergy with purified natural allergens,

10th Iranian Congress of Immunology and Allergy, 18-20 May 2010, Tehran, Iran; indexed in Iranian J. of Immunology, 7 (Suppl. 1):14

- **Tehrani M**, Sankian M, Jabbari, F, Assarehzadegan M, Falak R, Varasteh A. Molecular and Immunological Characterization of Am a r 2, an Allergen from *Amaranthus retroflexus*. *World Allergy Forum. 28th Congress EAACI. Warsaw. June 6-10, 2009.*
- Falak R, Sankian M, **Tehrani M**, Jabbari F, Abolhasani A, Varasteh A. IgE Binding Profile of Grape Extract in Grape Allergic Patients with Oral Allergy Syndrome. *World Allergy Forum. 28th Congress EAACI. Warsaw. June 6-10, 2009.*
- Falak R, Sankian M, Assarehzadegan MA, **Tehrani M**, Moghaddam M, Jabbari F, Abolhasani A, Varasteh AR. Proteomic Study of Grape Allergic Proteins. *Second Iranian Proteomics Congress, 23-24 Apr 2009, Tehran, Iran.*
- **Tehrani M**, Varasteh A, Khakzad MR, Mirsadraee M, Sankian M. Decreased levels of Soluble Toll-like Receptor 2 in Patients with Asthma. *9th Iranian Congress of Immunology and Allergy 2008. Tehran. Iran.*
- Sankian M, Varasteh A, Moghaddam M, **Tehrani M**. Disulfide Bridge of Two Conformationally Adjacent Cysteines: An Oxidative-response Modulator of Plant Profilin Conformation and Allergenicity. *9th Iranian congress of Immunology and Allergy 2008. Tehran. Iran.*

10. Additional Skills:

Computer skills:

- Microsoft office (including Word, PowerPoint, and Excel)
- Adobe Photoshop
- Endnote (version 15)
- SPSS (version 19)

11. Languages:

Persian: Mother tongue

English: IELTS (Academic-2011): Overall Band Score: 6.

12. Recommendations: Available on Request

13. References:

1. **Dr. Abolghasem Ajami**, Professor of Immunology, Department of Immunology, Mazandaran University of Medical Sciences, Sari, Iran, ajami36@gmail.com, a.ajami@mazums.ac.ir.
2. **Dr. Houshnag Rafatpanah**, Assistant Professor of Immunology, Department of Immunology and Allergy, Mashhad University of Medical Sciences, Mashhad, Iran, Rafatpanahh@mums.ac.ir, hrafatpanah@hotmail.com.
3. **Dr. Mojtaba Sankian**, Assistant Professor of Immunology, Department of Immunology and Allergy, Mashhad University of Medical Sciences, Mashhad, Iran, sankianm@mums.ac.ir.
4. **Dr. Reza Farid**, Professor of Immunology, Department of Immunology and Allergy, Mashhad University of Medical Sciences, Mashhad, Iran, FaridhosseiniR@mums.ac.ir.