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CURRICULUM VITAE

SHIRIN FARJADIAN

Personal Background:

Name: Shirin Farjadian

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Positions:

- From May 2016- Present: Full professor, Department of Immunology, SUMS
- From June 2010-May 2016: Associate professor, Department of Immunology, SUMS
- From March 2006-May 2010: Assistant professor, Department of Immunology, SUMS
- From April 1998-April 2006: Instructor of Immunology and Molecular Biology and Director of Molecular Biology Lab and, Department of Immunology, SUMS
- From April 1996-March 1998: Research assistant, Department of Immunology, SUMS

Certifications:

2006: PhD degree in Immunology, SUMS, Shiraz, Iran.

1995: MS degree in Microbiology, SUMS, Shiraz, Iran.

1991: BS degree in Biology, Shiraz University, Shiraz, Iran.

Memberships:

- Iranian Society for Immunology and Allergy
- European Federation for Immunogenetics (EFI) from 2009

Publications in International Journals:

1. Halimi H, Mirzazadeh S, Kalantar K, Hajimaghsodi M, Ramzi M, **Farjadian S**. Activating KIR/HLA-I combinations as a risk factor of adult B-ALL. *Hum Immunol*. 2024;85(2):110750.
2. Tabaei S, Haghshenas MR, Ariafar A, Gilany K, Stensballe A, **Farjadian S**, Ghaderi A. Comparative proteomics analysis in different stages of urothelial bladder cancer for identification of potential biomarkers: highlighted role for antioxidant activity. *Clin Proteomics*. 2023;20(1):28
3. Mirzazadeh S, Bemani P, Halimi H, Sanaee MN, Karami N, Ramzi M, **Farjadian S**. Association of killer cell immunoglobulin-like receptors and their cognate HLA class I ligands with susceptibility to acute myeloid leukemia in Iranian patients. *Sci Rep*. 2023;13(1):11456.
4. Halimi H, **Farjadian S**. Cholesterol: An important actor on the cancer immune scene. *Front Immunol*. 2022;13:1057546.
5. Kashef S, Moghtaderi M, Hatami HR, Kalani M, Alyasin S, Nabavizadeh H, **Farjadian S**. Evaluation of T Cell Proliferation Using CFSE Dilution Assay: A Comparison between Stimulation with PHA and Anti-CD3/Anti-CD28 Coated Beads. *Iran J Allergy Asthma Immunol*. 2022;21(4):458-466.
6. Talezadeh Shirazi P, **Farjadian S**, Dabbaghmanesh MH, Jonaidi H, Alavianmehr A, Kalani M, Emadi L. Eugenol: A New Option in Combination Therapy with Sorafenib for the Treatment of Undifferentiated Thyroid Cancer. *Iran J Allergy Asthma Immunol*. 2022;21(3):313-321.
7. Jalali S, Farhadi A, Rafiei Dehbidi G, **Farjadian S**, Sharifzadeh S, Ranjbaran R, Seyyedi N, Namdari S, Behzad-Behbahani A. The Pathogenic Aspects of Human Parvovirus B19 NS1 Protein in Chronic and Inflammatory Diseases. *Interdiscip Perspect Infect Dis*. 2022;2022:1639990.
8. Mojtahedi Z, **Farjadian S**. Awareness of Obesity-Related Cancers: A Complex Issue. *Int J Environ Res Public Health*. 2022;19(11):6617.
9. Nejabat S, Haghshenas MR, **Farjadian S**. Allergenome profiling of *Vespa orientalis* venom by serum IgE in patients with anaphylactic reaction to this hornet sting. *Toxicon*. 2022;214:130-135.
10. Sepahi N, Alyasin S, Kanannejad Z, Esmaeilzadeh H, Mohammadalizadeh Shirazi F, Babaei M, **Farjadian S**. Identification of the Most Common Allergens of *Acer velutinum* Pollen. *Iran J Allergy Asthma Immunol*. 2022;21(1):81-85.

11. Amirkhani Z, Alavi MS, Kalani M, Alavianmehr A, *Farjadian S*. Immunomodulatory Effects of Omega-3 Fatty Acids in Patients with Differentiated Thyroid Cancer Before or After Radioiodine Ablation. *Iran J Immunol*. 2022;19(1):7.
12. Ashouri E, Rajalingam K, Barani S, *Farjadian S*, Ghaderi A, Rajalingam R. Coexistence of inhibitory and activating killer-cell immunoglobulin-like receptors to the same cognate HLA-C2 and Bw4 ligands confer breast cancer risk. *Sci Rep*. 2021;11(1):7932.
13. Yazdanpanah P, Alavianmehr A, Ghaderi A, Monabati A, Montazer M, Tahmasbi K, *Farjadian S*. PD-L1 expression in tumor lesions and soluble PD-L1 serum levels in patients with breast cancer: TNBC versus TPBC. *Breast Dis*. 2021 Jan 25. doi: 10.3233/BD-201049. Online ahead of print.
14. Alavianmehr A, Mansouri M, Ramzi M, Faghieh M, Monabati A, Arandi N, Faghieh Z, *Farjadian S*. Association of killer-cell immunoglobulin-like receptor genes with acute myelogenous leukaemia. *Int J Immunogenet*. 2020;47(6):512-521.
15. Monjezi MR, Fouladseresht H, Farjadian S, Gharesi-Fard B, Khosropanah S, Doroudchi M. T Cell Proliferative Responses and IgG Antibodies to β 2GPI in Patients with Diabetes and Atherosclerosis. *Endocr Metab Immune Disord Drug Targets*. 2021;21(3):495-503.
16. Aghajari S, Mortazavi SMJ, Kalani M, Nematollahi S, Habibzadeh P, *Farjadian S*. The Immunomodulatory Effect of Radiofrequency Electromagnetic Field on Serum Cytokine Levels in A Mouse Model of Hindlimb Unloading. *Cell J*. 2021;22(4):401-405.
17. Mansouri M, Villard J, Ramzi M, Alavianmehr A, *Farjadian S*. Impact of donor KIRs and recipient KIR/HLA class I combinations on GVHD in patients with acute leukemia after HLA-matched sibling HSCT. *Hum Immunol*. 2020;81(6):285-292.
18. Kardeh S, Mazloomrezaei M, Dianatpour M, *Farjadian S*. Universal off-the-shelf skin substitutes for cosmetic and reconstructive surgery. *Burns*. 2019. pii: S0305-4179(19)30857-5
19. Moghtaderi M, *Farjadian S*, Hossieni Teshnizi S, Hadibarhaghtalab M. Allergic bronchopulmonary aspergillosis and severe asthma with fungal sensitization in patients with uncontrolled asthma: An experience from Southwestern Iran. *Med J Islam Repub Iran*. 2019;33:95.

20. Moghtaderi M, Ashraf MA, Teshnizi SH, Nabavizadeh H, **Farjadian S**, Fereidouni M. The level of allergens in dust samples collected from selected schools in Shiraz, Iran and its asthma-risk implications. *Allergol Immunopathol (Madr)*. 2020;48(1):90-94.
21. **Farjadian S**, Bonatti F, Soriano A, Reina M, Adorni A, Graziano C, Moghtaderi M, Percesepe A, Romeo G, Martorana D. A new MEFV gene mutation in an Iranian patient with familial Mediterranean fever. *Reumatismo*. 2019;71(2):85-87.
22. Esmaeilzadeh H, **Farjadian S**, Alyasin S, Nemati H, Nabavizadeh H, Esmaeilzadeh E. Epidemiology of Severe Cutaneous Adverse Drug Reaction and Its HLA Association among Pediatrics. *Iran J Pharm Res*. 2019;18(1):506-522.
23. **Farjadian S**, Fakhraei B, Niknam Z, Nasiri M, Azad A, Farjam M, Nikseresht A. Polymorphisms of serotonin transporter gene and psychological status in patients with multiple sclerosis. *Iran J Neurol*. 2018;17(3):105-110.
24. **Farjadian S**, Tabebordbar M, Mokhtari M, Safaei A, Malekzadeh M, Ghaderi A. HLA-G Expression in Tumor Tissues and Soluble HLA-G Plasma Levels in Patients with Gastrointestinal Cancer. *Asian Pac J Cancer Prev*. 2018;19(10):2731-2735.
25. Golmoghaddam H, **Farjadian S**, Khosropanah S, Dehghani P, Doroudchi M. Lower Frequency of HLA-DRB1*01 in Southwestern Iranian Patients with Atherosclerosis. *Iran J Immunol*. 2018;15(3):197-206.
26. **Farjadian S**, Moghtaderi M, Hoseini-Pouya BA, Ebrahimpour A, Nasiri M. ADAM33 gene polymorphisms in Southwestern Iranian patients with asthma. *Iran J Basic Med Sci*. 2018;21(8):813-817.
27. Noorpisheh Ghadimi S, **Farjadian S**, Hatam GR, Kalani M, Sarkari B. Vaccination with Live Attenuated L. Major and TLR4 Agonist Promotes a Th1 Immune Response and Induces Protection against L. Major Infection in BALB/c Mice. *Iran J Immunol*. 2018;15(2):74-83.
28. Alyasin S, Moghtaderi M, **Farjadian S**, Babaei M, Teshnizi SH. Allergic bronchopulmonary aspergillosis in patients with cystic fibrosis and non-cystic fibrosis bronchiectasis. *Electron Physician*. 2018;10(1):6273-6278.
29. Hamed A, Yousefi G, **Farjadian S**, Bour Bour MS, Parhizkar E. Physicochemical and Immunomodulatory Properties of Gum Exudates Obtained from *Astragalus myriacanthus* and Some of Its Isolated Carbohydrate Biopolymers. *Iran J Pharm Res*. 2017;16(4):1520-1530.

30. Khodabandeh Shahraki P, Alavian-Mehr A, *Farjadian S*. HLA-G: Facts and Fictions. *Asian Pac J Cancer Biol*. 2018;3(2):1-9.
31. Khodabandeh Shahraki P, Zare Y, Azarpira N, Hosseinzadeh M, *Farjadian S*. Prognostic Value of HLA-G in Malignant Liver and Pancreas Lesions. *Iran J Immunol*. 2018;15(1):28-37.
32. Moghtaderi M, Torab Jahromi M, *Farjadian S*, Ghassemi P, Hosseini Teshnizi S. Decreased Sensitization to Aeroallergens among Southwestern Iranian Male Farmers. *Iran J Allergy Asthma Immunol*. 2017;16(4):307-312.
33. Moghtaderi M, *Farjadian S*, Aflaki E, Honar N, Alyasin S, Babaei M. Re: HLA is better than serological screening for celiac diseases in rheumatological arthritis. *Turk J Gastroenterol*. 2017;28(3):228.
34. Sahakyan H, Hooshiar Kashani B, Tamang R, Kushniarevich A, Francis A, Costa MD, Pathak AK, Khachatryan Z, Sharma I, van Oven M, Parik J, Hovhannisyan H, Metspalu E, Pennarun E, Karmin M, Tamm E, Tambets K, Bahmanimehr A, Reisberg T, Reidla M, Achilli A, Olivieri A, Gandini F, Perego UA, Al-Zahery N, Houshmand M, Sanati MH, Soares P, Rai E, Šarac J, Šarić T, Sharma V, Pereira L, Fernandes V, Černý V, *Farjadian S*, et al. Origin and spread of human mitochondrial DNA haplogroup U7. *Sci Rep*. 2017;7:46044.
35. Haghghat M, Moghtaderi M, *Farjadian S*. Genetic Analysis of Southwestern Iranian Patients with Familial Mediterranean Fever. *Rep Biochem Mol Biol*. 2017;5(2):117-120.
36. Sattarinezhad E, Panjehshahin MR, Torabinezhad S, Kamali-Sarvestani E, *Farjadian S*, Pirsalami F, Moezi L. Protective Effect of Edaravone Against Cyclosporine-Induced Chronic Nephropathy Through Antioxidant and Nitric Oxide Modulating Pathways in Rats. *Iran J Med Sci*. 2017;42(2):170-178.
37. Moghtaderi M, Hosseini Teshnizi S, *Farjadian S*. Sensitization to common allergens among patients with allergy in major Iranian cities: A systemic review and meta-analysis. *Epidemiol Health*. 2017;39:e2017007.
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39. Nazari N, *Farjadian S*. Natural Killer Cell Cytotoxicity Against SKOV3 after HLA-G Downregulation by shRNA. *Iran J Immunol*. 2016;13(3):178-85.

40. **Farjadian S**, Moghtaderi M, Kalani M, Gholami T, Hosseini Teshnizi S. Effects of omega-3 fatty acids on serum levels of T-helper cytokines in children with asthma. *Cytokine*. 2016;85:61-66.
41. Moghtaderi M, **Farjadian S**, Fereidouni M, Nasiri M, Nejat A. Indoor Dust Allergen Levels in the Homes of Patients with Childhood Asthma: An Experience From Southwestern Iran. *Iran J Allergy Asthma Immunol*. 2016;15(2):132-7.
42. Moghtaderi M, Zarei M, **Farjadian S**, Shamsizadeh S. Prediction of the impact of air pollution on rates of hospitalization for asthma in Shiraz based on air pollution indices in 2007-2012. *Open Journal of Air Pollution*. 2016;5:37-43
43. Zaeri S, **Farjadian S**, Emamghoreishi M. Decreased levels of canonical transient receptor potential channel 3 protein in the rat cerebral cortex after chronic treatment with lithium or valproate. *Res Pharm Sci*. 2015;10(5):397-406.
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45. Hamed A, **Farjadian S**, Karami MR. Immunomodulatory Properties of Taranjebin (Camel's Thorn) Manna and Its Isolated Carbohydrate Macromolecules. *J Evid Based Complementary Altern Med*. 2015;20(4):269-74.
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48. Hamed A, **Farjadian S**, Karami MR. Immunomodulatory properties of Trehala manna decoction and its isolated carbohydrate macromolecules. *J Ethnopharmacol*. 2015;162:121-6.
49. Moghtaderi M, **Farjadian S**, Reihani I. Sensitization to plant food allergens in patients with asthma. *Indian J Allergy Asthma Immunol* 2015;29:24-7.

50. Farjam M, Beigi Zarandi FB, *Farjadian S*, Geramizadeh B, Nikseresht AR, Panjehshahin MR. Inhibition of NR2B-Containing N-methyl-D-Aspartate Receptors (NMDARs) in Experimental Autoimmune Encephalomyelitis, a Model of Multiple Sclerosis. *Iran J Pharm Res.* 2014;13(2):695-705.
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55. Najib K, Moghtaderi M, *Farjadian S*, Falahzadeh E. Low Postprandial Circulating Inactive Ghrelin: Role of Early Satiety in Undernourished Children. *Indian J Pediatr.* 2014;81(11):1147-50.
56. Zahmatkeshan M, Fallahzadeh E, Moghtaderi M, Najib KS, *Farjadian S*. Attitudes of medical students and staff toward organ donation in cases of brain death: a survey at Shiraz University of Medical Sciences. *Prog Transplant.* 2014;24(1):91-6.
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62. **Farjadian S**, Safi S. Genetic connections among Turkic-speaking Iranian ethnic groups based on HLA class II gene diversity. *Int J Immunogenet*. 2013;40(6):509-14.
63. **Farjadian S**, Rahimifar S, Erfani N, Lotfi R. Effect of thermal stress on MICA/B induction in a human liposarcoma cell line. *Iran J Immunol*. 2013;10(1):31-9.
64. **Farjadian S**, Moghtaderi M, Kashef S, Alyasin S, Najib Kh, Saki F. Clinical and genetic features in patients with cystic fibrosis in southwestern Iran. *Iran J Pediatr*. 2013;23(2): 212-5.
65. **Farjadian S**. The significance of HLA typing in transplantation. *J Nephropathology*. 2012;1(3): 160-1.
66. **Farjadian S**, Moghtaderi M, Kashef S, Alyasin S. Sensitization to food allergens in Iranian children with mild to moderate persistent asthma. *World J Pediatr*. 2012;8(4):317-20.
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80. Kashef S, Ghazizadeh F, Derakhshan A, **Farjadian S**, Alyasin S. Antigen-Specific Antibody Response in Juvenile-Onset SLE Patients Following Routine Immunization with Tetanus Toxoid. *Iran J Immunol*. 2008; 5(3):181-4.
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85. **Farjadian S**, Ghaderi A. HLA class II similarities in Iranian Kurds and Azeris. *Int J Immunogenet*. 2007; 34(6):457-63.
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97. Karimi M, Yarmohammadi H, *Farjadian S*, Zeinali S, Moghaddam Z, Cappellini MD, Giordano PC. Beta-thalassemia intermedia from southern Iran: IVS-II-1 (G-->A) is the prevalent thalassemia intermedia allele. *Hemoglobin*. 2002; 26(2):147-54.
98. Dehaghani AS, Amirzargar A, *Farjadian S*, Ghaderi A. HLA-DQB1 alleles and susceptibility to cervical squamous cell carcinoma in Southern Iranian patients. *Pathol Oncol Res*. 2002; 8(1):58-61.
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100. Pezeshki AM, *Farjadian S*, Talei A, Vasei M, Gharesi-Fard B, Doroudchi M, Ghaderi A. p53 gene alteration and protein expression in Iranian women with infiltrative ductal breast carcinoma. *Cancer Lett*. 2001; 169(1):69-75.

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102. Ghaderi A, Talei A, **Farjadian S**, Mosalaei A, Doroudchi M, Kimura H. Germline BRCA1 mutations in Iranian women with breast cancer. *Cancer Lett.* 2001; 165(1):87-94.
103. Amirzargar A, Mytilineos J, Yousefipour A, **Farjadian S**, Scherer S, Opelz G, Ghaderi A. HLA class II (DRB1, DQA1 and DQB1) associated genetic susceptibility in Iranian multiple sclerosis (MS) patients. *Eur J Immunogenet* 1998; 25(4):297-301.

Training and Workshops:

- HLA typing by Sequence Based Typing (SBT): *January to July, 2003, Human Life Science, Toki University, Isehara, Japan.*
- Biotest Co. meeting, *May 24-29, 2006, Dreieich, Germany.*
- Mitochondrial DNA analysis: *January to July, 2008, Anthropology department, Bologna University, Italy.*
- Senior visiting fellowship: *September to November 2013, Anthropology department, Bologna University, Italy.*

Presentations in International Congress:

1. **Farjadian S**, Mansouri M, Villard J, Ramzi M. The impact of KIR/HLA-I combinations on the one-year prognosis of allogenic hematopoietic stem cell transplantation in patients with acute leukemia. *32nd European Immunogenetics and Histocompatibility Conference. May 9-12, 2018, Venice Lido, Italy.*
2. **Farjadian S**, Moghtaderi M. The effect of omega-3 on Th1/Th2/Th9/Th17/Th22 serum levels in childhood asthma. *ICI 2016, Aug 21-26, 2016. Melbourne, Australia.*
3. **Farjadian S**, Nazari N. Natural killer cell cytotoxicity against tumor cell lines after HLA-G downregulation by shRNA. *The 29th European Immunogenetics and Histocompatibility Conference. April 26-29, 2015; Geneva, Switzerland.*

4. **Farjadian S**, Alyasin Z, Porshahidi S. Genetic variations of HLA in Iranian patients with erosive oral lichen planus. *The 28th European Immunogenetics and Histocompatibility Conference. June 25-28, 2014; Stockholm, Sweden.*
5. **Farjadian S**, Moghtaderi M, Kashef S. Lung function and skin prick test in wheat flour mill workers in Southwestern Iran. *The European Academy of Allergy and Clinical Immunology (EAACI) 31st Annual meeting, June 16-20, 2012, Geneva, Switzerland.*
6. **Farjadian S**, Hoseini Nasab F, Rahimifar S, Erfani N, Lotfi R. The Effect of Hyperthermia on the Induction of ULBPs in a Human Liposarcoma Cell line. *2011 Joint Annual Meeting SIICA-DGFI., Sep 28-Oct 1, 2011, Riccione, Italy.*
7. **Farjadian S**, Rahimifar S, Hossaini-nasab F, Erfani N, Lotfi R, Ghaderi A. Does hyperthermia increase the susceptibility of liposarcoma cells to NK cell lysis? *14th International Congress of Immunology. August 22-27, 2010. Kobe, Japan.*
8. **Farjadian S**, Pettener D, Luiselli D, Castri L, Ghaderi A, Romeo G. Mitochondrial DNA haplogroups and HLA class II gene variation in ethnolinguistic isolates of Iran. *23th European Immunogenetics and Histocompatibility Conference. May 9-12, 2009. Ulm, Germany.*
9. **Farjadian S**, Ghaderi A. The Genetic Relationship among Iranian Ethnic Groups. *The 9th Iranian Congress of Biochemistry & the 2nd International Congress of Biochemistry and Molecular Biology. October 29-November 1, 2007. Shiraz, Iran.*
10. **Farjadian S**, Ghaderi A. The Genetic Relationship among Eleven Persian Ethnic Groups: An Anthropological View Based on HLA Class II Gene Polymorphism. *7th Annual Meeting of FOCIS, June 7-11, 2007; San Diego, California, USA.*
11. **Farjadian S**, Ghaderi A. Variation of HLA class II in two Iranian ethnic groups (Arabs and Jews). *1st Joint Meeting of European National Societies of Immunology and 16th European Congress of Immunology. September 6-9, 2006; Paris, France.*
12. **Farjadian S**, Ghaderi A. HLA class II gene polymorphism in seven Iranian ethnic groups. *14th International HLA and Immunogenetics Workshop, November 29-December 2, 2005; Melbourne, Australia.*
13. **Farjadian S**, Naruse T, Kawata H, Ghaderi A, Bahram S, Inoko H. Molecular Analysis of HLA allele frequencies and haplotypes in Baloch of Iran compared with related populations of Pakistan. *12th international Congress of*

Immunology and 4th Annual Conference of FOCIS, July 18-23, 2004; Montreal, Canada.

14. **Farjadian S**, Kalantari T, Pezeshki AM, Mostafavi HA, Doroudchi M, Yeganeh F, Samsami Dehaghini A, Ghaderi A. CTLA-4 gene polymorphism in southern Iranian patients with Graves' disease. *French Society of Immunology 2002 Annual Meeting, November 27-29, 2002; Strasbourg, France.*