



Kurosh Kalantar

Associate Professor of Immunology

Personnel Information:

last update: December 2024

School:	Shiraz School of Medicine
Department:	Medical Immunology
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Research interest

- 1- The Immunology of Infectious disease (COVID-19, HBV, HCV)
- 2- Assessing the vaccine efficacy for HBV and COVID19 vaccine
- 3- Immunopathogenesis of Type one diabetes and Multiple sclerosis

Research metrics

1. Citations in google scholar: 1700
2. h-index in google scholar: 18
3. Citations in google scholar: 957
4. h-index in google scholar: 18

Webpages:

1. <https://scholar.google.com/citations?hl=en&user=h5r4HhAAAAAJ>
2. <https://www.linkedin.com/in/kurosh-kalantar-957504246/?originalSubdomain=ir>

3. <https://www.researchgate.net/profile/Kurosh-Kalantar>

EDUCATION

2023 to 2025	Post-doctoral Department of Bacteriology and Immunology and the Translational Immunology Research Program (TRIMM), The University of Helsinki and HUSLAB, Helsinki University Hospital, Helsinki, Finland Prof. Seppo Meri Group Leader Title of the project: The effect of CD37 in the pathogenesis systemic lupus erythematosus (SLE)
2007-2013	PhD in Immunology Department of Immunology, Shiraz University of Medical Sciences, Shiraz, Iran and Cochin Institute, INSERM U1016, DeAR Lab Avenir, Paris, France . Thesis Topic <ul style="list-style-type: none">Accelerated co-cultured dendritic cell (acDC)-based assays: optimization for antigen discovery and application to CD8⁺ T-cell epitope identification in obese and type 2 diabetes patients Supervisors <ul style="list-style-type: none">Professor Zahra Amirghofran and Dr. Roberto Mallone
2005-2007	Master of Science (MSc) in Immunology Department of Immunology, Tehran University of Medical Sciences, Tehran, Iran Thesis Topic <ul style="list-style-type: none">Mixture periodic autoregressive time series modelling Supervisors <ul style="list-style-type: none">Professor Mahroo Mirahmadian
2001-2005	Bachelor of medical laboratory (BSc) <ul style="list-style-type: none">Department of medical laboratory, Shiraz University of Medical Sciences, Shiraz, Iran

Employment History

- 201^۴-now. **Associate Professor**, Department of Immunology, Shiraz University of Medical Sciences, Shiraz, Iran
- 2018-now **Founder of the Asthma, allergy and Immunology Association**: (Fars province) Head of the immunology and HLA-typing laboratory.
- 2021-now **Head of the autoimmune diseases research center ADRC**
- 2020-now **Vice Chancellor of Education**, Department of Immunology, Shiraz University of Medical Sciences, Shiraz, Iran
- 2015-2020 **Vice Chancellor of Graduate Studies**, Department of Immunology, Shiraz University of Medical Sciences, Shiraz, Iran
- 2017-now **Head of the human leukocyte antigens (HLA) lab**, Affiliated to the Department of Immunology, Shiraz University of Medical Sciences, Shiraz, Iran

Sabbatical Leave:

1-The DeARLab - Diabetes & Autoimmunity Research Laboratory. Paris Cité University (University of Descartes), Paris, **France. 2011-2012**

Supervisor: Dr. Roberto Mallone and Dr. Emanuela Martinuzzi

Title of the project: Using Elispot and acDC methods for discovering of autoantigens in obese and type 2 diabetes.

International Collaboration:

1.Professor, Seppo Meri, Department of Bacteriology & Immunology and the Translational Immunology Research Program (TRIMM), University of Helsinki, Helsinki, **Finland**

Dieter Kabelitz, institute of Immunology, University of Kiel, Kiel, **Germany**.

Professor, Kari K Eklund, Department of Medicine, Division of Rheumatology, Helsinki University Central Hospital, Helsinki, **Finland**

Dr. Slobodan Culina, Université de Paris, Institute Cochin, CNRS, INSERM, Paris, **France**. (Slobodan.culina@pasteur.fr), **2022**

Professor. Paul Nguewa , Department of Microbiology & Parasitology, University of Navarra, ISTUN Instituto de Salud Tropical, IdiSNA (Navarra Institute for Health Research), c/ Irunlarrea 1, Pamplona, 31008, **Spain**

Dr. Raúl Manzano-Román, Proteomics Unit, Cancer Research Centre (IBMCC/CSIC/USAL/IBSAL), Salamanca, 37007, **Spain**,

Professor. Paul Nguewa , Department of Microbiology & Parasitology, University of Navarra, ISTUN Instituto de Salud Tropical, IdiSNA (Navarra Institute for Health Research), c/ Irunlarrea 1, Pamplona, 31008, **Spain**

Dr. Ebrahim Bani Hasan, Australian Institute for Musculoskeletal Science (AIMSS), The University of Melbourne and Western Health, St. Albans, VIC, Australia AND Department of Medicine-Western Health, The University of Melbourne, St. Albans, VIC, **Australia**.

19-Subject: Modulation of Cytokine Production and Transcription Factors Activities in Human Jurkat T Cells by Thymol and Carvacrol

Dr. Marjan Gharagozloo , Department of Neurology, Johns Hopkins University School of Medicine, Baltimore, MD, USA., **U.S.A**

Honors and achievements:

1-2025, Granted a 3000 Euro, Immunoyools company to buy 20 reagents.

2-2023-2025, Granted a senior researcher by Department of Bacteriology and Immunology and the Translational Immunology Research Program (TRIMM), The University of Helsinki and HUSLAB, Helsinki University Hospital, Helsinki, Finland.

3-2023, granted a travel grant for participating in the international congress of immunology by the international union immunology (IUIS) 27 November – 2 December 2023, Cape Town, South Africa. The International Congress of Immunology

4-2023, granted a short scientific research visit by the Institute of Immunology (**one months**), University of Kiel, Germany.

5-2023, Granted 3225 US dollar from Helsinki University for publishing the research article by the Sigrid Jusélius Foundation and by the Helsinki University Hospital funds, Helsinki, Finland for open access publishing the research article entitled: Immune responses in mildly versus critically ill COVID-19 patients

6- 2022, Published more than 65 articles in the international journal with >1400 citations in Google Scholar

7-2022, granted a short scientific research visit by the Department of Bacteriology and Immunology (two weeks), Haartman Institute, University of Helsinki, Finland

8- 2022, Granted 3860 US dollar from Keil University for open access publishing the research article entitled: Lower frequency of T stem cell memory (TSCM) cells in hepatitis B vaccine nonresponders

9-2021, Best lecturer in faculty of Medicine at Shiraz University of Medical Sciences of the year

10- 2020, Granted 2625 US dollar from Helsinki university for publishing the research article by the Sigrid Jusélius Foundation and by the Helsinki University Hospital funds, Helsinki, Finland for open access publishing the research article entitled: The Effects of Type 2 Diabetes Mellitus on Organ Metabolism and the Immune System

11- 2019 Granted 1000 US dollar from the crit Rev Immunol for writing the review article number 20 in the research article part

12- 2014. Chosen as a Top speaker in the 12th international congress of Immunology, Tehran, Iran,

13- 2007, Honored as the top master student of immunology in medical school, Tehran University of Medical Sciences,

14- 2005 Placed 1st (among almost 829 participants) in the national exam for entering M.Sc. program in Medical Immunology in Iran.

Research article

1. Epstein-Barr virus infection and toll-like receptor 9 gene variants affect the susceptibility to rheumatoid arthritis. Fatemeh Nezhad Shamohammadi, Gholamreza Daryabor, Mohammad Reza Ataollahi, Seppo Meri, Kari K Eklund, **Kurosh Kalantar**. Future Virology, 1-9, 2025.

2. Interplay of Vitamin D and Aryl Hydrocarbon Receptors in CD4⁺ T Cell Fate Determination. Sepideh Maghami, Sara Ranjbar, Navid Nezafat, Atefe Ghamar Talepoor, Mahsa Eshkevar Vakili, Mohammad Hossein Morowvat, **Kurosh Kalantar**, Afshin Mohammadi Bardbori. Journal of biochemical and molecular toxicology J Biochem Mol Toxicol . 2025 Aug;39(8):e70360

3.Alterations in metabolic pathways: a bridge between aging and weaker innate immune response. Saleh Z, Mirzazadeh S, Mirzaei F, Heidarnejad K, Meri S, **Kalantar K**. Front Aging. 2024

4.Targeting TRIM29 As a Negative Regulator of CAR-NK Cell Effector Function to Improve Antitumor Efficacy of these Cells: A Perspective. Saleh Z, Noroozi M, Vakili ME, Kabelitz D, Nasrollahi H, **Kalantar K**. Curr Mol Med. 2024;24(4):399-403.

5.Association study between killer immunoglobulin-like receptor polymorphisms and susceptibility to COVID-19 disease: a systematic review and meta-analysis. Teshnizi SH, Mirzazadeh S, Mashhadi N, Meri S, Kabelitz D, **Kalantar K**. Immunol Res. 2024 Apr;72(2):175-184.

6.Activating KIR/HLA-I combinations as a risk factor of adult B-ALL. Halimi H, Mirzazadeh S, **Kalantar K**, Hajimaghsoodi M, Ramzi M, Farjadian S. Hum Immunol. 2024 Mar;85(2):110750. doi: 10.1016/j.humimm.2024.110750. Epub 2024 Jan 23. PMID: 38262874

7.IFN- γ , IL-17, IL-22+ CD4+ subset in patients with hepatitis C virus and correlation with clinical factor. Khansalar S, Faghih Z, Barani S, Kalani M, Ataollahi MR, Mohammadi Z, Namdari S, **Kalantar K**. Am J Clin Exp Immunol. 2024 Feb 25;13(1):43-52.

8.Hepatitis B vaccine responders show higher frequencies of CD8+ effector memory and central memory T cells compared to non-responders. Vakili ME, Mashhadi N, Ataollahi MR, Meri S, Kabelitz D, **Kalantar K**. Scand J Immunol. 2024 Nov;100(5):e13402. doi: 10.1111/sji.13402. Epub 2024 Aug 27. PMID: 39189677

9.The effects of killer cell immunoglobulin-like receptor (KIR) genes on susceptibility to severe COVID-19 in the Iranian population. Karami N, Barani S, Fani M, Meri S, Shafiei R, **Kalantar K**. BMC Immunol. 2024 Jun 28;25(1):38.

10.Evaluation of circulating CD4+CD25+CD127–/low regulatory T cells in newly diagnosed hepatitis C-infected patients. Morvarid Asadipour, Soolmaz Khansalar, Fatemeh Rezaei Kahmini, Mahsa Eshkevar Vakili, Mohammad Reza Ataollahi, Mohammad Ali-Hassanzadeh, Keivan Shams, Zahra Faghih, **Kurosh Kalantar**. European Journal of Inflammation

11.Th-1, Th-2, Th-9, Th-17, Th-22 type cytokine concentrations of critical COVID-19 patients after treatment with Remdesivir. **Kurosh kalantar**, Atefe Ghamar Talepoor, Mahsa Eshkevar Vakili, Narges

karami, Mehdi Kalani, Farzad Ghandehari, Dieter Kabelitz, Seppo Meri, Afagh Moattari. Immunobiology, 2023, In press.

12. Immune responses in mildly versus critically ill COVID-19 patients. Hamid Nasrollahi , Atefe Ghamar Talepoor , Zahra Saleh , Mahsa Eshkevar Vakili , Paria Heydarinezhad , Narges Karami , Maryam Noroozi , Seppo Meri , **Kurosh Kalantar**. Front Immunol. 2023 Jan 30; 14:1077236.

13. Targeting TRIM29 as a Novel Therapeutic Approach to Improve Antitumor Efficacy of CAR-NK cells: A Perspective". Zahra Saleha, Maryam Noroozia, Mahsa Eshkevar Vakilia, Dieter Kabelitzb, Hamid Nasrollahi c, **Kurosh kalantar** . Current molecular medicine. 2023, In press.

14. Investigation of the frequencies of various B cell populations in non-responder health care workers in comparison with responders to hepatitis B virus vaccination. Sara Karimi , Fereshteh Mehdipour , Jamal Sarvari , Mohammad Reza Ataollahi , Amin Ramezani , Seppo Meri , **Kurosh Kalantar**. Transactions of the Royal Society of Tropical Medicine and Hygiene. 2023.In press

15. Immunometabolism in Health and Disease. Mehrnoosh Doroudchi , Kurosh Kalantar. Endocr Metab Immune Disord Drug Targets. 2022;22(12):1147-1148.

16. Targeting T Cell Metabolism as a Novel Approach for Treatment of MS: With a Focus on PFKFB3 Inhibitors. Mahsa Eshkevar Vakili, Fateme Nezhad Shah Mohammadi, Mohammad Reza Ataollahi, Keivan Shams, Kari K Eklund, Gholamreza Daryabor, **Kurosh Kalantar**. Metab Immune Disord Drug Targets. 2022 Sep 21

17. The frequency of CD4+ and CD8+ circulating T stem cell memory in type 1 diabetes. Fazeli P, Talepoor AG, Faghih Z, Gholijani N, Ataollahi MR, Ali-Hassanzadeh M, Moravej H, **Kalantar K**. Immun Inflamm Dis. 2022 Oct;10(10):e715. doi: 10.1002/iid3.715.

18. Comparison of Antibody Responses Following Vaccination with AstraZeneca and Sinopharm. Enayat Anvari, Atefe Ghamar Talepoor, Mahsa Eshkevar vakili, Narges karami, Mohhammad Reza ataollahi, Gelareh Najafi, Dieter Kabalitz, Iraj Ahmadi, **Kurosh kalantar**..Iranian journal of immunology. 2022, Accepted

19. Negative Correlation of IL-38 Level with Alkaline Phosphatase (ALP) and Hepatitis C Persistent. Najmeh Rokhtabnak, Mohammad Reza Ataollahi, Shaghik Barani, Mohammad Ali-Hassanzadeh, Pooria Fazeli, Soolmaz Khansalar, Morvarid Asadipour, **Kurosh Kalantar**. Shiraz E-Medical Journal.2022 Accepted.

20. Lower frequency of T stem cell memory (TSCM) cells in hepatitis B vaccine nonresponders. Mahsa Eshkevar Vakili, Zahra Faghih, Jamal Sarvari, Mehrnoosh Doroudchi, Seyed Nezamedin Hosseini, Dieter Kabelitz, **Kurosh Kalantar**. Immunol Res. 2022 Apr 20.
21. Accelerated co-cultured dendritic cell (acDC) loaded with autologous apoptotic bodies might be a promising approach for antigen delivery. **Kalantar K**, Gholijani N, Martinuzzi E, Culina S, Kabelitz D, Amirghofran Z. J Immunoassay Immunochem. 2022 Mar 18:1-13.
22. Targeting citrate carrier (CIC) in inflammatory macrophages as a novel metabolic approach in COVID-19 patients: A perspective. Vakili ME, Saleh Z, Kabelitz D, **Kalantar K**. Endocr Metab Immune Disord Drug Targets. 2021 Sep 9. DOI: 10.2174/1871530321666210909165757. Online ahead of print.
22. Proportion of T follicular helper cells in peripheral blood of rheumatoid arthritis patients: a systematic review and meta-analysis. Peyman Bemani, Kari K Eklund, Mohammad Ali-Hassanzadeh, Dieter Kabelitz, Reinhold E Schmidt, Seppo Meri, **Kurosh Kalantar**. Expert Rev Clin Immunol. 2021 Apr 15:1-14
23. The role of FOXP3 rs3761548 and rs2294021 polymorphisms in pediatric acute lymphoblastic leukemia: association with risk and response to therapy. Zahra Ghasemi, **Kurosh Kalantar**, Zahra Amirghofran. Mol Biol Rep **2021** Jan 30
24. Variations in IL-22, IL-27 and IL-35 serum levels in untreated and treated hepatitis C patients. Azam Taghinejad, Shaghik Barani, Naser Gholijani, Farzad Ghandehari, Soolmaz Khansalar, Morvarid Asadipour, Mohammadali Davarpanah, Mohammadreza Fattahi, **Kurosh Kalantar**. European cytokine network.**2020**, 31(4)134-139.
25. Interleukin-27 gene variant rs153109 is associated with enhanced cytokine serum levels and susceptibility to Behçet's disease in the Iranian population. asser Gholijani, Gholamreza Daryabor, **Kurosh Kalantar**, Mohammad-Reza Yazdani, Saeedeh Shenavandeh, Maryam Zahed, Zahra Jafarpour, Mohammad-Reza Malekmakan, Zahra Amirghofran. European Cytokine network.**2020**, 31(4)140-146.
26. The effects of type 2 diabetes mellitus on organ metabolism and the immune system. G Daryabor, MR Atashzar, D Kabelitz, S Meri, **K Kalantar** Front Immunol. **2020** Jul 22; 11:1582
27. Identification of immunoreactive proteins in secretions of Leishmania infantum promastigotes: an immunoproteomic approach. S Rashidi, P Nguewa, Z Mojtahedi, B Shahriari, **K Kalantar**, G Hatam. East Mediterr Health J. **2020** Dec 9;26(12):1548-1555

28. Decreased levels of interleukin 27 in the serum of vitiligo patients. SM Hosseini, N Gholijani, N Chenari, **K Kalantar**. *An Bras Dermatol*. **2020** Sep-Oct;95(5):570-574

29. IL-18 in Blood Serum of Hepatitis C Patients Might be of Predictive Value for Individual Outcomes. M Asadipour, P Fazeli, M Zohouri, P Bemani, M Mohebbiniya, **K Kalantar**. *Infect Disord Drug Targets*. **2020** Jul 7

30. T cell responses to an HLA-A2-restricted adipophilin peptide correlate with BMI in patients with atherosclerosis. **Kalantar K**, Farzaneh Z, Eshkevar Vakili M, Karimi MH, Asadi M, Khosropanah S, Doroudchi M. *Physiology International* **2020**,107 (2), 280-293

31. CD52+ regulatory T cells and CD52-expressing sperms downregulated in couples with unexplained infertility: A case–control study. M Raeisi, **K Kalantar**, B Namavar Jahromi, B Gharezi-Fard *International Journal of Reproductive BioMedicine* **2020**,18 (5), 385-387

32. Pro-inflammatory Effects of Influenza Type A Virus PB1-F2 Protein-derived Peptide in Lipopolysaccharide-treated Macrophages. **K Kalantar**, Z Farzaneh, N Gholijani, SY Hosseini, EB Hasan. *Iran J Allergy Asthma Immunol*. **2020** May 17; 19(S1):74-82

33. Decreased serum levels of IL-27and IL-35 in patients with Graves’ disease. MH Saeed, **K Kurosh**, A Zahra, DM Hossein, R Davood, MR Ataollahi. *Arch. Endocrinol. Metab.* vol.64 no.5, **2020**.

34. Therapeutic Effect of Carvacrol-loaded Albumin Nanoparticles on Arthritic Rats. N Gholijani, SS Abolmaali, **K Kalantar**, MH Ravanrooy. *Iranian Journal of Pharmaceutical Research: IJPR* **2020**, 19 (1), 312

35. Association of FCRL3 rs7528684 polymorphism with risk of Hashimoto's thyroiditis in Iranian patients. **Kurosh Kalantar**, Farzad Ghandehari, Saeed Malek-Hosseini, Hossein Golmoghaddam, Davood Rostamzadeh, Mohamad Hossein Dabbaghmanesh, Zahra Amirghofran *Meta Gene*. Volume 24, June **2020**, 100663

36. Leishmanial selenoproteins and the host immune system: towards new therapeutic strategies? Rashidi S, **Kalantar K**, Nguewa P, Hatam G. *Trans R Soc Trop Med Hyg*. **2020** Mar 31

37. Chitin binding protein as a possible RNA binding protein in Leishmania parasites. Rashidi S, **Kalantar K**, Fernandez-Rubio C, Anvari E, Nguewa P, Hatam G. Pathog Dis. **2020** Feb 1;78(1)

38. Association of foxp3 gene variants with risk of hashimoto's thyroiditis and correlation with anti-tpo antibody levels. **K Kalantar**, S Khansalar, M Eshkevar Vakili, D Ghasemi, MH Dabbaghmanesh, Z Amirghofran. Acta Endocrinologica (bucharest) **2019**-15 (4), 423

39. Pyrin and Hematopoietic Interferon-Inducible Nuclear Protein Domain Proteins: Innate Immune Sensors for Cytosolic and Nuclear DNA. Mohammad Reza Atashzar, Gholamreza Daryabor, Dieter Kabelitz, & **Kurosh Kalantar**, Critical Reviews in Immunology, 39(4):275–288 (**2019**)

40. Fas, FasL and Foxp3 gene expression in post-liver transplant autoimmune hepatitis patients with and without acute rejection. Shams K, **Kalantar K**, Karimi MH, Nasiri M, Afshari A, Amirghofran Z. Clin Exp Hepatol. **2019** May;5(2):103-108.

41. Tumor Cell Death via Apoptosis and Improvement of Activated Lymphocyte Cytokine Secretion by Extracts from Euphorbia Hebecarpa and Euphorbia Petiolata. Amirghofran Z, Shekofteh N, Ghafourian M, Khosravi N, **Kalantar K**, Malek-Hosseini S. Asian Pac J Cancer Prev. **2019** Jul 1;20(7):1979-1988.

42. An immunoproteomic approach to identifying immunoreactive proteins in Leishmania infantum amastigotes using sera of dogs infected with canine visceral leishmaniasis. Rashidi S, Mojtahedi Z, Shahriari B, **Kalantar K**, Ghalamfarsa G, Mohebbi M, Hatam G. Pathog Glob Health. **2019** May;113(3):124-132

43. Inhibition of interferon- γ production and T-bet expression by menthol treatment of human peripheral blood mononuclear cells. Bayat M, **Kalantar K**, Amirghofran Z. Immunopharmacol Immunotoxicol. **2019** Apr;41(2):267-276

44. Influence of forkhead box protein 3 polymorphisms (rs2232365, rs3761548) with the outcome of pregnancy: A meta-analysis. Hosseini Teshnizi S, Ali-Hassanzadeh M, Gharezi-Fard B, Kabelitz D, **Kalantar K** J Cell Physiol. **2019** Feb 19

45. An update on immune dysregulation in obesity-related insulin resistance. Daryabor G, Kabelitz D, **Kalantar K**. Scand J Immunol. **2019** Apr;89(4)

46. The Importance of Checking Leishmania Promastigotes Viability in the Proteomic analysis of Secretions. Rashidi S, **Kalantar K**, Rostamzadeh D, Hatam G. *Turkiye Parazitol Derg.* **2018** Dec;42(4):245-248
47. Recombinant NS3 Protein Induced Expression of Immune Modulatory Elements in Hepatic Stellate Cells during Its Fibrotic Activity. Jamhiri I, Shahin K, Khodabandeh Z, **Kalantar K**, Sarvari J, Atapour A, Mina F, Ahmadnejad A, Hosseini SY. *Viral Immunol.* **2018** Oct;31(8):575-582
48. Inhibition of LPS-induced inflammatory responses by *Satureja hortensis* extracts in J774.1 macrophages. Farzaneh Z, **Kalantar K**, Iraj A, Amirghofran Z. *J Immunoassay Immunochem.* **2018**; 39(3):274-291
49. Investigation of *Dracocephalum kotschy* Plant Extract on the Effective Inflammatory Transcription Factors and Mediators in Activated Macrophages. **Kalantar K**, Gholijani N, Mousaei N, Yazdani M, Amirghofran Z. *Antiinflamm Antiallergy Agents Med Chem.* **2018**; 17(1):39-49
50. Using proteomics as a powerful tool to develop a vaccine against Mediterranean visceral leishmaniasis. Rashidi S, **Kalantar K**, Hatam G. *J Parasit Dis.* **2018** Jun; 42(2):162-170
51. Achievement amastigotes of *Leishmania infantum* and investigation of pathological changes in the tissues of infected golden hamsters. Rashidi S, **Kalantar K**, Hatam G *J Parasit Dis.* **2018** Jun; 42(2):187-195
52. Anti-inflammatory activity of *Echium amoenum* extract on macrophages mediated by inhibition of inflammatory mediators and cytokines expression. Najmeh Naseri , **Kurosh Kalantar** , Zahra Amirghofran. *Research in Pharmaceutical Sciences* 13 (1), 73,**2018**
53. Apoptosis-inducing Effect of the Hexane Extracts from Three Native Iranian *Euphorbia* Plants. Narjes Shekofteh , Mehri Ghafourian Boroujerdnia , Neda Khosravi , **Kurosh Kalantar** , Saeed Malek-Hosseini , Haideh Namdari , Zahra Amirghofran. *Int J Cancer Manag.* **2017**; 10(11)
54. Seroepidemiological study of *Toxoplasma gondii* infection among psychiatric patients in Mashhad, northeast of Iran. Ebrahim ABDOLLAHIAN, Reza SHAFIEI, Naghmeh MOKHBER, **Kurosh KALANTAR**, and Abdolmajid FATA. *Iran J Parasitol.* 2017 Jan-Mar; 12(1):117-122

55. Effect of MicroRNA-21 Transfection on In-vitro Differentiation of Human Naive CD4⁺ T Cells to Regulatory T Cells. Namdari H, Ghayedi M, Hadjati J, Rezaei F, **Kalantar K**, Rahimzadeh P, Salehi E. Iran J Allergy Asthma Immunol. 2017 Jun; 16(3):235-244

56. Comparison of the In Vitro Antifibrogenic Effects of Silymarin, Silybin A and 18 α -Glycyrrhizin on Activated Hepatic Stellate Cells. Seyed Younes Hosseini, **Kurosh Kalantar**, Khashayar Shahin, Maryam Ghayour, Masoumeh Rajabibazl, Mohammad-Reza Fattahi, Maryam Moini, Zahra Amirghofran. Jundishapur J. Nat. Pharm. Prod.

57. The Seroprevalence of Human Cystic Echinococcosis in Iran: A Systematic Review and Meta-Analysis Study. Reza Shafiei, Saeed Hosseini Teshnizi, **Kurosh Kalantar**, Maryam Gholami, Golnush Mirzaee, Fatemeh Mirzaee. J Parasitol Res. 2016; 2016:1425147. Epub 2016 Oct 17

58. Modulation of Cytokine Production and Transcription Factors Activities in Human Jurkat T Cells by Thymol and Carvacrol. Nasser Gholijani, Marjan Gharagozloo, **Kurosh Kalantar**, Amin Ramezani, Zahra Amirghofran. Adv Pharm Bull. 2015 Dec; 5(Suppl 1):653-60.

59. In vitro inhibitory effects of thymol and carvacrol on dendritic cell activation and function. Zahra Amirghofran, Hossein Ahmadi, Mohammad Hossein Karimi, **Kurosh Kalantar**, Nasser Gholijani, Zahra Malek-Hosseini. Pharm Biol. 2016 Jul; 54(7):1125-32.

60. Islet amyloid polypeptide is not a target antigen for CD8⁺ T-cells in type 2 diabetes (Iran J Immunol. **Kurosh Kalantar**, Mohammad Hossein Dabbaghmanesh, Emanuela Martinuzzi, Mohsen Moghadami, Zahra Amirghofran 2014 Mar; 11(1):1-12.).

61. Serum levels of tumor necrosis factor- α , interleukin-15 and interleukin-10 in patients with pre-eclampsia in comparison with normotensive pregnant women. **Kurosh Kalantar**, Samira Rajaei, Amir Behzad Heidari, Reza Mansouri, Nesa Rashidi, Maryam Hosseinali Izad, Mahroo Mirahmadian. (Iran J Nurs Midwifery Res. 2013 Nov; 18(6):463-6.)

62. Emergence of co-infection of visceral leishmaniasis in HIV-positive patients in northeast Iran: a preliminary study. Reza Shafiei, Mehdi Mohebbi, Behnaz Akhondi, Meysam Sharifdini Galian, **Kurosh Kalantar**, Saeedeh Ashkan, Abdolmajid Fata, Bibi Razieh Hosseini Farash, Mehrdad Ghasemian. Travel Med Infect Dis. 2014 Mar-Apr; 12(2):173-8.

63. Inhibition of nitric oxide production and proinflammatory cytokines by several medicinal plants. Zahra Amirghofran¹, Saeed Malek-Hosseini, Hossein Golmoghaddam, **Kurosh Kalantar**, Mehdi Shabani. Iranian Journal of Immunology 2011 Sep; 8(3):159-69.

64. Association of Tumor Necrosis Factor-Alpha and Interleukin-10 Gene Polymorphisms in Iranian Patients with Pre-eclampsia. Mahroo Mirahmadian, **Kurosh Kalantar**, Golnaz Heidari, Lili Safdarian, Reza Mansouri, Ali Akbar Amirzargar. Published in American Journal of Reproductive Immunology 2008 Aug; 60(2):179-85.

65. Serum cytokines profiles in Iranian patients with preeclampsia. Reza Mansouri¹, Firoozeh Akbari, Mohammad Vodjgani, Fereidoun Mahboudi, **Kurosh Kalantar**, Mahroo Mirahmadian. Published in Iranian Journal of Immunology (2007 Sep; 4(3):179-85)

Congress presentation:

1. Hepatitis B vaccine responders show higher frequencies of CD8⁺ effector memory and central memory T cells compared to non-responders. **Vienna 2025**

1- Frequency of different B-cell subsets in low responders in comparison with high responder health care workers to hepatitis B vaccine. Cape Town, **South Africa 2023**

2- Investigating the killer immunoglobulin-like receptors (KIRs) gene content in patients with COVID-19 hospitalized in the intensive care unit (ICU) in comparison to the patients with low clinical symptoms. Cape Town, **South Africa 2023**

3- Epstein-Barr virus infection and toll-like receptor 9 gene variants affect the susceptibility of Iranian individuals to rheumatoid arthritis. Cape Town, **South Africa 2023**

4- Cancer immunotherapy as a speaker. Live webinar at Shiraz University of Medical Science, Shiraz, **Iran 2022**

5- Investigation of Corona virus vaccines. Live webinar at Shiraz University of Medical Science, Shiraz, Iran, 2021

6- Fc receptor-like proteins (FCRL) 3 polymorphisms in Hashimoto's disease (Poster presentation, ICI Melbourne, **Australia 2016**

7- In vitro comparison of 18 α -glycyrrhizin, silymarin and silybin A on activated human hepatic stellate cells disease (Poster presentation, ICI Melbourne, **Australia 2016**)

8- Effect of *Dracocephalum kotschy* extract on cytokines and transcription factors regulating inflammation in macrophages (Oral Presentation, Tabriz, **Iran, 2015**)

9- Islet Amyloid Polypeptide is not a Target Antigen for CD8⁺ T-Cells in Type 2 Diabetes. Tehran, **Iran** (Accepted as an excellent presenter, 2013).

10- Inhibition of nitric oxide production and pro-inflammatory cytokines by several medicinal plants, International congress of Immunology (Poster presentation, ICI Millan, **Italy** 2016)

11- Serum levels of TNF- α , IL-15 and IL-10 in Iranian patients with preeclampsia in comparison with normal fertile women (13th Iranian Congress of Biochemistry and 5th International Congress of Biochemistry and Molecular Biology, Yazd, **Iran**, April.16-19, 2013)

Congress participation:

1-The International Congress of Immunology, Vienna, **Austria**, 2025

1-The International Congress of Immunology, Cape Town, **South Africa**, 2023

2- Inborn errors of type one I interferon immunity in patients with life-threatening COVID-19, live webinar, 19.04.2021

3-16th International Congress of Immunology, Melbourne, **Australia**, 2016.

4- 13th International Congress of Immunology, Tabriz, **Iran**, 2016.

5- 15th International Congress of Immunology, Millan, **Italy**, 2013.

Workshops as Learner

1- Scientific Writing-2006 - Tehran Medical University

2- Electronic Search-2006 - Tehran Medical University

3- Flowcytometry and application in immunology

Workshops as instructor:

1- Graph Pad software (Prism)

2 -Data analysis of Real-Time PCR

Professional affiliation/ Academic Membership

1- Australian and New Zealand Society for Immunology Inc, 2022

2 –Iranian Society for Immunology, 2007 to present

3- British society for Immunology

4. International Union of Immunological Societies (IUIS)

Referee Experience:

Frontier in Nutrition (IF: 6.59)

International journal of Immunopharmacology (IF:5.71)

HELIYON journal, Cells Press (IF: 3.77)

Immunobiology Journal (IF; 3.4)

BMJ Open Diabetes Research & Care (IF; 4.1)

Iranian Journal of Allergy, Asthma and Immunology (IF: 1.57)

Iranian journal of Immunology (IF:1.2)

Journal editorial board:

1-Associate editor of the journal of immunologic research 2023-present

2-Guest Editor of the journal of frontier in immunology, 2020-present

3-Guest Editor of the Endocrine, Metabolic & Immune Disorders - Drug Targets journal, 2020-present

Supervised Ph.D., M.Sc. and medical doctor thesis

Ph. D

1-Aryl hydrocarbon receptor engagement during redox alteration determines the fate of CD4⁺ T cells in C57BL/6 mice. PhD. Hamidreza Mohammadia, 2021.

2-Evaluation of Clostridium difficile fecal load and its association with clinical status, mucosal immunity level and common intestinal micobiota pattern of hospitalized patients in Shiraz teaching hospital. Ph.D. Hadi sedigh Ebrahim – Saraie. 2018

MS.c

3-Association of TLR-9 gene variations (rs187084 and rs 352140) with Epstein-Barr virus infection in susceptibility and activity of rheumatoid arthritis. MS.c.Fatemeh Nezhad Shahmohhamadi, 2022

4-The investigation of the frequency of memory B cell subsets in low responder compare to high responder of hepatitis B vaccinated in the hospital staff of Shiraz University of Medical Sciences. MS.c Zahra Saleh, 2021.

- 5- Detection of CD4⁺ and CD8⁺ memory stem T cells and their programmed cell death (PD-1) expression in patients with type1 diabetes as compared to healthy individuals. MS.c Pooria Fazeli.2021
- 6- Comparison of frequency of various memory B cell subsets in responders and Non-responders to Hepatitis B vaccine in the Hospital staff of Shiraz University of Medical Siences. MS.c, Sara Karimi, 2020.
- 7- The frequency of specific Memory CD4⁺ T cell subsets against HBsAg in responders and Non-Responders to Vaccine in the hospital staff of Shiraz University of Medical Sciences. M.Sc., Mahsa Eshkevar Vakili, 2020.
- 8-Foxp3 Gene variant in acute lymphoblastic Leukemia patients and its association with prognostic factors. MS.c. Zahran Ghasemi.2020
- 9- Evaluation of Th1,Th17 and Th22 in hepatitis C virus(HCV) patients pre and post treatment in comparison to the healthy control and their correlation with the clinical factors. MS.c,Soolmaz Khansalar.2019
- 10-Selection of specific single chain antibodies against EGFR and evaluation of their effects on triple negative breast cancer cells. MS.c. Forough Abdolazade. 2019.
- 11- Evaluation of the anti-inflammatory effects of two saturja plant extract (saturja hortensis and Saturja bachtiarica) on J774.1 macrophage cell line. MS.c. Zahra Farzaneh. 2017
- 12-Evaluation of the anti-inflammatory effects of Echium amaoenum extact on J&4.1 macrophage cell line. MS.c. Najmeh Nasser. 2017.
- 13-Investigation of the expression of CD52 on the sperm cells, seminal fluid and T cells from unexplained infertile couples. MS.c. Mohhamad Raeisi. 2016.
- Doctor of Medicine:
- 14-Evaluation of serum levels of IL-18 in hepatitis C virus (HCV) patients referred to Motahari clinic and its correlation with liver enzyme levels and virus genotype. Doctor of Medicine. Mohsen Mohebbiniya. 2020.
- 15-Clinicopathologic diagnosis and outcome of patients with hemophagocytic Lymphohistiocytosis in children admitted to Amir oncology Hospital, Subspecialty in Pediatric hematology and oncology, Hadi motaghipisheh, 2019

- 16-Detection of auto reactive CD8+ T cells against an adipophilin-derived polypeptide in patients with atherosclerosis compared to healthy individuals. Doctor of medicine. Mohhamadali Asadi, 2018.
- 17-The evaluation of NS recombinant protein effect on the expression of SOCS-1 and SOCS-3 in hepatic stellate cell. Doctor of medicine. Fatemeh Mina. 2017
- 18-Investigation of anti-inflammatory effect of Dracocephalum .Kostchy on the effective transcription factors in inflammation in lipopolysaccharide0stimulated macrophages. Doctor of medicine. Maliha Yazdani.2017
- 19-Investigation of HBs Abs levels in the medical school of Shiraz University of Medical Sciences. Doctor of Medicine. Masood Darabi. 2019
- 20-Evaluation of serum levels of IL-27, IL-22 and IL-35 cytokines in serum of people with hepatitis C and its relation to viral genotype and traditional trend compared to normal people. Internal medicine specialists. Azam Taghinejad. 2018
- 21-Investigation of anti-inflammatory effect of Dracocephalum .Kostchy in lipopolysaccharide stimulated macrophages and IL-1, TNF-alpha and nitrit oxide synthesis. Doctor of medicine. Nshmin Mosaei.2017
- 22-Investigation of FCRLgene polymorphisms in hashimoto patients. Internal medicine specialists. Farzad Ghandehari. 2017

Referees:

- 1- **Professor. Dieter Kabelitz**, institute of Immunology, University of Kiel, Kiel, **Germany** (dietrich.kabelitz@uksh.de),
- 2- **Professor, Kari K Eklund**, Department of Medicine, Division of Rheumatology, Helsinki University Central Hospital, Helsinki, **Finland** (kari.eklund@hus.fi)
- 3- **Professor, Seppo Meri**, Department of Bacteriology & Immunology and the Translational Immunology Research Program (TRIMM), University of Helsinki, Helsinki, **Finland** (seppo.meri@helsinki.fi),**2021**.
- 4- **Dr. Qian Zhang** , St. Giles Laboratory of Human Genetics of Infectious Diseases, Rockefeller Branch, The Rockefeller University, New York, NY, **U.S.A.** (qzhang02@mail.rockefeller.edu)
- 5- **Dr.Emanuela Martinuzzi**, Système immunitaire, cerveau et nerfs périphériques, Institute de Pharmacologie Moléculaire et Cellulaire (IPMC) CNRS, Valbonne, **France**. (martinuzzi@ipmc.cnrs.fr)

6- Dr.Lazaro Lorenzo, Human Genetics of Infectious Diseases Laboratory at the Imagine Institute in Paris, France, France. lazaro.lorenzo-diaz@inserm.fr

Teaching Experiences:

Immunology (graduate course) ۲۰۱۴-present Department of Immunology, Shiraz University of Medical Sciences, Shiraz, Iran

Immunity to Infectious Diseases (graduate course) ۲۰۱۴-present Department of Immunology, Shiraz University of Medical Sciences, Shiraz, Iran

Immunology of autoimmune disease (rheumatology specialist) ۲۰۱7-present Department of Immunology, Shiraz University of Medical Sciences, Shiraz, Iran

Immunology of Asthma (Asthma and allergy specialist) ۲۰۱7-present Department of Immunology, Shiraz University of Medical Sciences, Shiraz, Iran

Cellular and Molecular Biology (graduate course) 201۴-present Department of Immunology, Shiraz University of Medical Sciences, Shiraz, Iran

Techniques in Immunology (graduate course) ۲۰۱۴-present Department of Immunology, Shiraz University of Medical Sciences, Shiraz, Iran

Immunopathology (graduate course) ۲۰۱۴-present Department of Immunology, Shiraz University of Medical Sciences, Shiraz, Iran

Blood Borne Infections (graduate course) Fall 20۱۴ Department of Immunology, Shiraz University of Medical Sciences, Shiraz, Iran

Bioinformatics (graduate course) Fall 20۱۴ Department of Immunology, Shiraz University of Medical Sciences, Shiraz, Iran

Immunology for Medical Students (undergraduate course) 201۴-present Department of Immunology, Shiraz University of Medical Sciences, Shiraz, Iran

Immunology for international branch for Medical Students (undergraduate course) 201۴-present Department of Immunology, Shiraz University of Medical Sciences, Shiraz, Iran

Immunology for nursing and midwifery Students (undergraduate course) 201۴-present Department of Immunology, Shiraz University of Medical Sciences, Shiraz, Iran

Practical Immunology for medical Student (undergraduate course) 2014-present Department of Immunology, Shiraz University of Medical Sciences, Shiraz, Iran