

بِسْمِ اللَّهِ تَعَالَى

CURRICULUM VITAE

Abdollah Jafarzadeh

Professor of Immunology

PERSONAL:

First name: Abdollah

Surname: Jafarzadeh

Date of Birth: 01.07.1966

Nationality: Iranian

Marital status: Married (two children)

Tel: 0098-343-325 7660

Fax: 0098 343 433 9042

E-mail: Jafarzadeh14@yahoo.com, Jafarzadeh14@gmail.com

Email: Jafarzadeh@kum.ac.ir

OFFICE ADDRESS:

1- Department of Immunology, Medical School, Kerman University of Medical Sciences (KMU), Kerman, Iran.

2- Department of Immunology, Medical School, Rafsanjan University of Medical Sciences (RUMS), Rafsanjan, Iran.

QUALIFICATIONS:

1-B.Sc: Biology, Science School, Razi University, Kermanshah, Iran. 1989

2-M.Sc: Immunology, Medical Sciences School, Tarbiat Modares University, Tehran, Iran 1992

3-Ph.D: Immunology, Tehran University of Medical Sciences, Tehran, Iran 2001, Supervisor: Professor F. Shokri

UNIVERSITY APPOINTMENT:

1- Instructor of Immunology, RUMS, Rafsanjan, Iran, 1992-2001.

2- Assistant professor of Immunology, RUMS, Rafsanjan, Iran, 2001-2006.

3- Associate professor of Immunology, RUMS, Rafsanjan, Iran, 2006-2010.

4- Professor of Immunology, RUMS, Rafsanjan, Iran, 2010-present.

TEACHING EXPERIENCES

1-Since 1992 to 2010, Teaching the complete courses of Immunology for the students of Rafsanjan University of Medical Sciences (including students of Medicine, Dentistry, Para-medicine, Nursing, Midwifery).

2-Teaching the courses of Immunology for the students of Kerman University of Medical Sciences (including students of Medicine, Dentistry, Pharmacology, Para-medicine).

3-Teaching the courses of Immunology-1, Immunology-2 and Immunology of infection diseases for M.Sc. students in Kerman University of Medical Sciences (the M.Sc. students of Immunology, Virology, Mycology, Parasitology and Microbiology).

4- Teaching the course of Advanced Immunology for Ph.D students of Bacteriology and Parasitology in Kerman University of Medical Sciences.

5-Teaching the course of Blood Bank for Para-medicine students in Rafsanjan University of Medical Sciences.

6- Teaching of the History of Islamic culture and civilization for the students of Rafsanjan University of Medical Sciences.

7- Teaching the courses of Immunology for the students of International Bam University.

TECHNICAL EXPERIENCES:

Cellular and molecular Immunology including: Cell culture, Serological and Molecular HLA-typing, Cytokine assay, Immunization of animal model, PCR, RCR-RFLP, RT-PCR, Real time-PCR, designing ELISA based assay for the screening of antigen and antibody, Immunofluorescence, Electrophoresis, Immunodiffusion, Cell separation, Flowcytometry

AWARDS

1- Third prize winner (as *colleague*) in Immunology.

The 7th Razi Research Festival on Medical Sciences, Tehran, 2001.

2- First prize winner (as *colleague*) in Health Sciences.

The 14th Razi Research Festival on Medical Sciences, Tehran, 2008.

3-Selected as superior researcher in RUMS, Rafsanjan, Iran. 2004, 2006, 2007, 2008, 2009, 2010, 2015.

4- Selected as superior researcher in KMU, Kerman, Iran. 2023, 2020, 2017

RESEARCH INTEREST

- Autoimmunity and Allergy
- Tumor Immunology
- Immunomodulation.
- Immunology of infection diseases and vaccines immunogenicity.
- Immunopathological reactions in cardiovascular diseases.
- Cytokines and Chemokines in inflammatory states

SPECIAL TRAINING:

- 1- 3rd Theoretical and Practical Workshop on Molecular Methods in Immunogenetic. National Research Center of Genetic Engineering. Tehran, Iran, 2002.
- 2- Workshop: "Dendritic cells and Immune response" Tarbiat Modares University, Tehran, Iran, 2003.
- 3- Theoretical and Practical Workshop on Molecular Immunology. National Institute of Genetic Engineering and Biotechnology, Tehran, Iran, 2004.

ADMINISTRATION:

- 1- Head of Department of Immunology in Kerman university of Medical Sciences (2017-Present).
- 2- Head of Department of Immunology in Rafsanjan university of Medical Sciences (2014-Present).
- 3- Vice-Chancellor of Students and Cultural. RUMS, Rafsanjan, Iran (2010-2013).
- 4- Deputy for Education affairs. RUMS, Rafsanjan, Iran (2008-2009).
- 5- Head of Department of Microbiology and Immunology. RUMS, Rafsanjan, Iran (1997-2004 & 2007-2010).
- 6- Deputy for Research affairs. RUMS, Rafsanjan, Iran (2003-2005).
- 7- Head of the Office of Talented Students. RUMS, Rafsanjan, Iran (2006-2008).
- 8- Congress Secretary: Research Congress of the Students of South-East Universities of Medical Sciences. Rafsanjan, Iran, 1996.
- 9- Deputy of Congress Secretary. The Second Congress of Health Courses of Great Prophet. Rafsanjan, Iran, 2008.

MEMBERSHIP IN COMMITTEES AND SOCIETIES

1. Iranian Society of Immunology and Allergy.
2. Editorial Board of the Journal of Rafsanjan University of Medical Sciences, Rafsanjan, Iran.
3. Editorial Board of Journal of Occupational Health and Epidemiology, Rafsanjan, Iran

4. The Secretary of promotion committee of academic members in RUMS.
5. The member of faculty research council in RUMS
6. The member of university research council in RUMS
7. The member of faculty education council in RUMS
8. The member of university education council in RUMS
9. The member of ethical committee in RUMS.
10. The member of Research in Medical education in RUMS.
11. The member of University council in RUMS.

COMPUTER SKILLS

Expert in using statistical software EPI-info, SPSS, MS-Word, Prism, MS-Excel, MS-Power point and Endnote.

PUBLICATIONS

A) Papers (in English):

1. **Jafarzadeh A**, Noori M, Sarrafzadeh S, Tamehri Zadeh SS, Nemati M, Chatrabnous N, Jafarzadeh S, Hamblin MR, Jafari Najaf Abadi MH, Mirzaei H. MicroRNA-383: A tumor suppressor miRNA in human cancer. *Front Cell Dev Biol.* 2022 Oct 13;10:955486. doi: 10.3389/fcell.2022.955486.
2. **Jafarzadeh A**, Gosain R, Mortazavi SMJ, Nemati M, Jafarzadeh S, Ghaderi A. SARS-CoV-2 Infection: A Possible Risk Factor for Incidence and Recurrence of Cancers. *Int J Hematol Oncol Stem Cell Res.* 2022 Apr 1;16(2):117-127. doi: 10.18502/ijhoscr.v16i2.9205.
3. **Jafarzadeh A**, Jafarzadeh S, Pardehshenas M, Nemati M, Mortazavi SMJ. Development and exacerbation of autoimmune hemolytic anemia following COVID-19 vaccination: A systematic review. *Int J Lab Hematol.* 2022 Oct 8. doi: 10.1111/ijlh.13978.
4. Ilka S, Heshmati A, Mirabdollahi SA, **Jafarzadeh A**, Sedghy F, Bagheri F, Azari O, Mohammadi MA, Jafari Dareh Dar F, Arabnadvi M. Effect of turmeric extract on bone healing in an experimental model of femoral bone fracture. *Avicenna J Phytomed.* 2022 May-Jun;12(3):197-212. doi: 10.22038/AJP.2021.18561.
5. Saffari F, **Jafarzadeh A**. Development of anti-rituximab antibodies in rituximab-treated patients: Related parameters & consequences. *Indian J Med Res.* 2022 Mar;155(3&4):335-346. doi: 10.4103/ijmr.IJMR_312_19.

6. **Jafarzadeh A**, Nemati M, Aminizadeh N, Bodhale N, Sarkar A, Jafarzadeh S, Sharifi I, Saha B. Bidirectional cytokine-microRNA control: A novel immunoregulatory framework in leishmaniasis. *PLoS Pathog.* 2022 Aug 4;18(8):e1010696. doi: 10.1371/journal.ppat.1010696.
7. Hosseinzadeh A, Sahab-Negah S, Nili S, Aliyari R, Goli S, Fereidouni M, Alami A, Shati M, Ahmadnezhad E, Mehravaran S, Fateh M, Khajeha H, Emamian Z, Behmanesh E, Mahdavi S, Enayatrads M, Mangolian Shahrababaki P, Ansari-Moghaddam A, Heidarzadeh A, Shahraki-Sanavi F, Hashemi Shahri SM, Dehghan M, Amini Moridani M, Sheibani H, Abbaszadeh M, Jafari R, Valikhani M, Binesh E, Vahedi H, Chaman R, Khodashahi R, Amini M, Jabbari Azad F, Rezaeitalab F, Amel Jamehdar S, Eshraghi A, Sharifi H, Hashemi Bajgani SM, Mahdavi A, **Jafarzadeh A**, Farokhnia M, Ebrahimi S, Pardakhti A, Ghaderi E, Soltani H, Jadidoleslami S, Arianejad A, Gavili H, Moradveisi B, Motamedi D, Zare H, Kazemi T, Emamian MH. COVID-19 cases, hospitalizations and deaths after vaccination: a cohort event monitoring study, Islamic Republic of Iran. *Bull World Health Organ.* 2022 Aug 1;100(8):474-483. doi: 10.2471/BLT.22.288073.
8. Oladpour O, Taghipour F, Hassan ZM, Rezayati MT, Nemati M, Taghipour Z, **Jafarzadeh A**. Cimetidine and Ibuprofen Modulate T Cell Responses in a Mouse Model of Breast Cancer. *Asian Pac J Cancer Prev.* 2022 Jun 1;23(6):1847-1858. doi: 10.31557/APJCP.2022.23.6.1847.
9. **Jafarzadeh A**, Kumar S, Bodhale N, Jafarzadeh S, Nemati M, Sharifi I, et al. The expression of PD-1 and its ligands increases in Leishmania infection and its blockade reduces the parasite burden. *Cytokine.* 2022;153:155839.
10. Sharif-Zak M, Abbasi-Jorjandi M, Asadikaram G, Ghoreishi ZA, Rezazadeh-Jabalbarzi M, Afsharipur A, Rashidinejad HR, Fardin Khajepour F, **Jafarzadeh A**, Arefinia N, et al. CCR2 and DPP9 expression in the peripheral blood of COVID-19 patients: Influences of the disease severity and gender. *Immunobiology.* 2022;227(2):152184.
11. Masoumi J, **Jafarzadeh A**, Tavakoli T, Basirjafar P, Zandvakili R, Javan MR, et al. Inhibition of apelin/APJ axis enhances the potential of dendritic cell-based vaccination to modulate TH1 and TH2 cell-related immune responses in an animal model of metastatic breast cancer. *Advances in medical sciences.* 2022;67(1):170-8.
12. **Jafarzadeh A**, Nemati M, Jafarzadeh S, Nozari P, Mortazavi SMJ. Thyroid dysfunction following vaccination with COVID-19 vaccines: a basic review of the preliminary evidence. *Journal of endocrinological investigation.* 2022 Oct;45(10):1835-1863. doi: 10.1007/s40618-022-01786-7.

13. Nozari P, Mokhtari P, Nemati M, Zainodini N, Taghipour Z, Asadi F, Ayoobi F, **Jafarzadeh A**. Investigation of the effect of IFN- γ /TNF- α -treated mesenchymal stem cells on Th9- and Treg cell-related parameters in a mouse model of ovalbumin-induced allergic asthma. *Immunopharmacology and immunotoxicology*. 2022 Oct;44(5):773-785. doi: 10.1080/08923973.2022.2082977.
14. Rahimian L, Kalantari Khandani B, Nemati M, Hoseini-Shahrestanak S, Aminizadeh N, **Jafarzadeh A**. Reduced Expression of Natural Killer Cell-Related Activating Receptors by Peripheral Blood Mononuclear Cells from Patients with Breast Cancer and Their Improvement by Zoledronic Acid. *Asian Pacific journal of cancer prevention : APJCP*. 2022;23(5):1661-9.
15. **Jafarzadeh A**, Seyedmoalemi S, Dashti A, Nemati M, Jafarzadeh S, Aminizadeh N, et al. Interplays between non-coding RNAs and chemokines in digestive system cancers. *Biomedicine & pharmacotherapy = Biomedecine & pharmacotherapie*. 2022;152:113237.
16. **Jafarzadeh A**, Paknahad MH, Nemati M, Jafarzadeh S, Mahjoubin-Tehran M, Rajabi A, et al. Dysregulated expression and functions of microRNA-330 in cancers: A potential therapeutic target. *Biomedicine & pharmacotherapy*. 2022 Feb;146:112600. doi: 10.1016/j.biopha.2021.112600.
17. Hassanshahi G, Hadavi M, **Jafarzadeh A**, Rezaeian M, Vazirinejad R, Sarkoohi A, et al. Anesthesia technique and serum cytokine concentrations in the elective cesarean section. *Journal of research in medical sciences : the official journal of Isfahan University of Medical Sciences*. 2021;26:91.
18. Keyhani A, Sharifi I, Salarkia E, Khosravi A, Tavakoli Oliaee R, Babaei Z, Ghasemi Nejad Almani P, Hassanzadeh S, Kheirandish R, Mostafavi M, Hakimi Parizi M, Alahdin S, Sharifi F, Dabiri S, Shamsi Meymandi S, Khamesipour A, **Jafarzadeh A**, Bamorovat M. In vitro and in vivo therapeutic potentials of 6-gingerol in combination with amphotericin B for treatment of *Leishmania major* infection: Powerful synergistic and multifunctional effects. *International immunopharmacology*. 2021;101(Pt B):108274.
19. Taghipour F, Oladpour O, Rezayati MT, Khorramdelazad H, Nemati M, Taghipour Z, Masoumi J, Hassan ZM, **Jafarzadeh A**. Modulatory Effects of Metformin Alone and in Combination with Cimetidine and Ibuprofen on T Cell-related Parameters in a Breast Cancer Model. *Iranian journal of allergy, asthma, and immunology*. 2021;20(5):600-13.
20. **Jafarzadeh A**, Naseri A, Shojaie L, Nemati M, Jafarzadeh S, Bannazadeh Baghi H, et al. MicroRNA-155 and antiviral immune responses. *International immunopharmacology*. 2021;101(Pt A):108188.
21. Bamorovat M, Sharifi I, Aflatoonian MR, Karamoozian A, Tahmouresi A, **Jafarzadeh A**, et al. Prophylactic effect of cutaneous leishmaniasis against COVID-19: a case-control field assessment. *International journal of infectious diseases : IJID : official publication of*

the International Society for Infectious Diseases. 2022 Sep;122:155-161. doi: 10.1016/j.ijid.2021.09.050.

22. **Jafarzadeh A**, Marzban H, Nemati M, Jafarzadeh S, Mahjoubin-Tehran M, Hamblin MR, et al. Dysregulated expression of miRNAs in immune thrombocytopenia. *Epigenomics*. 2021;13(16):1315-25.
23. Masoumi J, **Jafarzadeh A**, Abdolalizadeh J, Khan H, Philippe J, Mirzaei H, et al. Cancer stem cell-targeted chimeric antigen receptor (CAR)-T cell therapy: Challenges and prospects. *Acta pharmaceutica Sinica B*. 2021;11(7):1721-39.
24. Bamorovat M, Sharifi I, Tavakoli Oliaee R, **Jafarzadeh A**, Khosravi A. Determinants of Unresponsiveness to Treatment in Cutaneous Leishmaniasis: A Focus on Anthroponotic Form Due to *Leishmania tropica*. *Frontiers in microbiology*. 2021;12:638957.
25. **Jafarzadeh A**, Nair A, Jafarzadeh S, Nemati M, Sharifi I, Saha B. Immunological role of keratinocytes in leishmaniasis. *Parasite immunology*. 2021;43(9):e12870.
26. **Jafarzadeh A**, Nemati M, Jafarzadeh S. Contribution of STAT3 to the pathogenesis of COVID-19. *Microbial pathogenesis*. 2021;154:104836.
27. Abassifard M, Khorramdelazad H, Rezaee S, **Jafarzadeh A**. Higher Circulating Concentration of Interleukin-38 in Patients with Knee Osteoarthritis: Its Association with Disease Severity. *Iranian journal of allergy, asthma, and immunology*. 2021;20(1):114-9.
28. Karimi T, Sharifi I, Aflatoonian MR, Aflatoonian B, Mohammadi MA, Salarkia E, Babaei Z,.... Aghaei Afshar A, **Jafarzadeh A**, Bamorovat M. A long-lasting emerging epidemic of anthroponotic cutaneous leishmaniasis in southeastern Iran: population movement and peri-urban settlements as a major risk factor. *Parasites & vectors*. 2021;14(1):122.
29. Kazemi M, **Jafarzadeh A**, Nemati M, Taghipour F, Oladpour O, Rezayati MT, et al. Zingerone improves the immune responses in an animal model of breast cancer. *Journal of complementary & integrative medicine*. 2021;18(2):303-10.
30. **Jafarzadeh A**, Nemati M, Saha B, Bansode YD, Jafarzadeh S. Protective Potentials of Type III Interferons in COVID-19 Patients: Lessons from Differential Properties of Type I- and III Interferons. *Viral immunology*. 2021;34(5):307-20.
31. **Jafarzadeh A**, Jafarzadeh S, Sharifi I, Aminizadeh N, Nozari P, Nemati M. The importance of T cell-derived cytokines in post-kala-azar dermal leishmaniasis. *Cytokine*. 2021;147:155321.
32. **Jafarzadeh A**, Jafarzadeh S, Nozari P, Mokhtari P, Nemati M. Lymphopenia an important immunological abnormality in patients with COVID-19: Possible mechanisms. *Scandinavian journal of immunology*. 2021;93(2):e12967.

33. **Jafarzadeh A**, Nemati M, Jafarzadeh S, Chauhan P, Saha B. The immunomodulatory potentials of interleukin-27 in airway allergies. *Scandinavian journal of immunology*. 2021;93(2):e12959.
34. Bassagh A, **Jafarzadeh A**, Kazemipour N, Nemati M, Aminizadeh N, Larussa T, et al. Decreased circulating interleukin-33 concentration in *Helicobacter pylori*-infected patients with peptic ulcer: Evaluation of its association with a cytokine gene polymorphism, gender of patients and bacterial virulence factor CagA. *Microbial pathogenesis*. 2019;136:103708.
35. Chatrabnous N, **Jafarzadeh A**, Ghaderi A, Ariafar A, Aminizadeh N, Ghassabi F, et al. Association of elevated interleukin-33 serum levels with tumorstages in patients with prostate cancer. *European cytokine network*. 2019;30(4):144-50.
36. Davarpanah E, **Jafarzadeh A**, Nemati M, Bassagh A, Abasi MH, Khosravimashizi A, et al. Circulating concentration of interleukin-37 in *Helicobacter pylori*-infected patients with peptic ulcer: Its association with IL-37 related gene polymorphisms and bacterial virulence factor CagA. *Cytokine*. 2020;126:154928.
37. H A, I S, J JB, **Jafarzadeh A**, A R, H Z, et al. Low Dose Radiation Therapy and Convalescent Plasma: How a Hybrid Method May Maximize Benefits for COVID-19 Patients. *Journal of biomedical physics & engineering*. 2020;10(4):387-94.
38. **Jafarzadeh A**, Chauhan P, Saha B, Jafarzadeh S, Nemati M. Contribution of monocytes and macrophages to the local tissue inflammation and cytokine storm in COVID-19: Lessons from SARS and MERS, and potential therapeutic interventions. *Life sciences*. 2020;257:118102.
39. **Jafarzadeh A**, Hadavi M, Hasanshahi G, Rezaeian M, Vazirinejad R, Aminzadeh F, et al. Cesarean or Cesarean Epidemic? *Archives of Iranian medicine*. 2019;22(11):663-70.
40. **Jafarzadeh A**, Hadavi M, Hasanshahi G, Rezaeian M, Vazirinejad R, Sarkoohi A, et al. Effect of Different Anesthetic Techniques on Cytokine Gene Expression in Patients who Underwent Elective Cesarean Section. *Iranian journal of allergy, asthma, and immunology*. 2020;19(6):640-6.
41. **Jafarzadeh A**, Hadavi M, Hassanshahi G, Rezaeian M, Vazirinejad R. General Anesthetics on Immune System Cytokines: A Narrative Review Article. *Anesthesiology and pain medicine*. 2020;10(4):e103033.

42. **Jafarzadeh A**, Jafarzadeh S, Nozari P, Mokhtari P, Nemati M. Lymphopenia an important immunological abnormality in patients with COVID-19: Possible mechanisms. *Scandinavian journal of immunology*. 2021;93(2):e12967.
43. **Jafarzadeh A**, Jafarzadeh S, Sharifi I, Aminizadeh N, Nozari P, Nemati M. The importance of T cell-derived cytokines in post-kala-azar dermal leishmaniasis. *Cytokine*. 2020:155321.
44. **Jafarzadeh A**, Nair A, Jafarzadeh S, Nemati M, Sharifi I, Saha B. Immunological role of keratinocytes in leishmaniasis. *Parasite immunology*. 2021:e12870.
45. **Jafarzadeh A**, Nemati M, Chauhan P, Patidar A, Sarkar A, Sharifi I, et al. Interleukin-27 Functional Duality Balances Leishmania Infectivity and Pathogenesis. *Frontiers in immunology*. 2020;11:1573.
46. **Jafarzadeh A**, Nemati M, Jafarzadeh S. The important role played by chemokines influence the clinical outcome of Helicobacter pylori infection. *Life sciences*. 2019;231:116688.
47. **Jafarzadeh A**, Nemati M, Jafarzadeh S. Contribution of STAT3 to the pathogenesis of COVID-19. *Microbial pathogenesis*. 2021;154:104836.
48. **Jafarzadeh A**, Nemati M, Jafarzadeh S, Chauhan P, Saha B. The immunomodulatory potentials of interleukin-27 in airway allergies. *Scandinavian journal of immunology*. 2021;93(2):e12959.
49. **Jafarzadeh A**, Nemati M, Khorramdelazad H, Mirshafiey A. The Toll-like Receptor 2 (TLR2)-related Immunopathological Responses in the Multiple Sclerosis and Experimental Autoimmune Encephalomyelitis. *Iranian journal of allergy, asthma, and immunology*. 2019;18(3):230-50.
50. **Jafarzadeh A**, Nemati M, Saha B, Bansode YD, Jafarzadeh S. Protective Potentials of Type III Interferons in COVID-19 Patients: Lessons from Differential Properties of Type I- and III Interferons. *Viral immunology*. 2020.
51. Jafarzadeh A, Nemati M, Sharifi I, Nair A, Shukla D, Chauhan P, et al. Leishmania species-dependent functional duality of toll-like receptor 2. *IUBMB life*. 2019;71(11):1685-700.
52. Jalalpour S, Mirzaee V, Taheri M, Fathollahi MS, Khorramdelazadeh H, **Jafarzadeh A**. The H. Pylori-related virulence factor caga influences the expression of chemokines CXCL10, CCL17, CCL20 and CCL22 and their receptors by peripheral blood mononuclear cells from peptic ulcer patients. *Arquivos de Gastroenterologia*. 2020;57(4):366-74.

53. Karimi T, Sharifi I, Aflatoonian MR, Aflatoonian B, Mohammadi MA, Salarkia E, et al. A long-lasting emerging epidemic of anthroponotic cutaneous leishmaniasis in southeastern Iran: population movement and peri-urban settlements as a major risk factor. *Parasites & vectors*. 2021;14(1):122.
54. Kazemi M, **Jafarzadeh A**, Nemati M, Taghipour F, Oladpour O, Rezayati MT, et al. Zingerone improves the immune responses in an animal model of breast cancer. *Journal of complementary & integrative medicine*. 2021.
55. Mahmoodi M, Sedghy F, Jafarzadeh A. Effect of Treatment with Thyme Extract on Urinary Levels of Melatonin in an Experimental Autoimmune Encephalomyelitis Mouse Model. *Reports of biochemistry & molecular biology*. 2020;8(4):407-12.
56. Masoumi J, **Jafarzadeh A**, Khorramdelazad H, Abbasloui M, Abdolalizadeh J, Jamali N. Role of Apelin/APJ axis in cancer development and progression. *Advances in medical sciences*. 2020;65(1):202-13.
57. Parsa S, Sharifzadeh S, Monabati A, Seyyedi N, Ranjbaran R, Baghbani MR, Nemati M, **Jafarzadeh A**. Overexpression of Semaphorin-3A and Semaphorin-4D in the Peripheral Blood from Newly Diagnosed Patients with Chronic Lymphocytic Leukemia. *Int J Hematol Oncol Stem Cell Res*. 2019;13(1):25-34.
58. Noroozi MK, Mahmoodi M, **Jafarzadeh A**, Darehkordi A, Hajizadeh MR, Khorramdelazad H, Sayadi AR, Falahati-Pour SK, Hassanshahi G. Indole itself and its novel derivative affect PML cells proliferation via controlling the expression of cell cycle genes. *Cell Mol Biol*. 2019; 31;65(3):41-47.
59. **Jafarzadeh A**, Nemati M, Khorramdelazad H, Hassan ZM. Immunomodulatory properties of cimetidine: Its therapeutic potentials for treatment of immune-related diseases. *Int Immunopharmacol*. 2019;70:156-166.
60. Etesam Z, Nemati M, Ebrahimizadeh MA, Ebrahimi HA, Hajghani H, Khalili T, **Jafarzadeh A**. Different Expressions of Specific Transcription Factors of Th1 (Tbet) and Th2 cells (GATA-3) by Peripheral Blood Mononuclear Cells From Patients With Multiple Sclerosis. *Basic Clin Neurosci*. 2018;9(6):458-469.
61. Mahmoodi M, Ayoobi F, Aghaei A, Rahmani M, Taghipour Z, Hosseini A, **Jafarzadeh A**, Sankian M. Beneficial effects of *Thymus vulgaris* extract in experimental autoimmune encephalomyelitis: Clinical, histological and cytokine alterations. *Biomed Pharmacother*. 2019;109:2100-2108.

62. Khalife E, Khodadadi A, Talaeizadeh A, Rahimian L, Nemati M, **Jafarzadeh A**. Overexpression of Regulatory T Cell-Related Markers (FOXP3, CTLA-4 and GITR) by Peripheral Blood Mononuclear Cells from Patients with Breast Cancer. *Asian Pac J Cancer Prev*. 2018 Nov 28;19(11):3019-3025.
63. Mahmoodi M, Amiri H, Ayoobi F, Rahmani M, Taghipour Z, Ghavamabadi RT, **Jafarzadeh A**, Sankian M. Carvacrol ameliorates experimental autoimmune encephalomyelitis through modulating pro- and anti-inflammatory cytokines. *Life Sci*. 2019;219:257-263.
64. Ahangar-Parvin R, Mohammadi-Kordkhayli M, Azizi SV, Nemati M, Khorramdelazad H, Taghipour Z, Hassan Z, Moazzeni SM, **Jafarzadeh A**. The Modulatory Effects of Vitamin D on the Expression of IL-12 and TGF-beta in the Spinal Cord and Serum of Mice with Experimental Autoimmune Encephalomyelitis. *Iranian journal of pathology*. 2018;13(1):10-22.
65. Saffari F, **Jafarzadeh A**, Kalantari Khandani B, Saffari F, Soleimanyamoli S, Mohammadi M. Immunogenicity of Rituximab, Trastuzumab, and Bevacizumab Monoclonal Antibodies in Patients with Malignant Diseases. *Int J Cancer Manag*. 2018;11(11):e64983.
66. Bassagh A, Hayatbakhsh Abasi M, Larussa T, Ghazizadeh M, Nemati M, Mirkamandar E, **Jafarzadeh A**. Diminished circulating concentration of interleukin-35 in Helicobacter pylori-infected patients with peptic ulcer: Its association with FOXP3 gene polymorphism, bacterial virulence factor CagA, and gender of patients. 2018;23(4):e12501.
67. Chatrabnous N, Ghaderi A, Ariafar A, Razeghinia MS, Nemati M, **Jafarzadeh A**. Serum concentration of interleukin-35 and its association with tumor stages and FOXP3 gene polymorphism in patients with prostate cancer. *Cytokine*. 2018.
68. Hoseini-Shahrestanak S, Bazargan N, Rahimian L, Nemati M, Solaymani S, **Jafarzadeh A**. Imbalanced Expression of Th2 and Treg Cell-related Parameters in Peripheral Blood Mononuclear Cells in Patients with Allergic Asthma. *Tanaffos*. 2018;17(1):1-12.
69. Nemati M, Ebrahimi HA, Hajghani H, Khosravimashizi A, **Jafarzadeh A**. Association of Interleukin-12B Gene Polymorphism With Multiple Sclerosis in Patients From Southeast of Iran. *Arch Neurosci*. 2018 April; 5(2):e63360.
70. **Jafarzadeh A**, Azizi SV, Arabi Z, Ahangar-Parvin R, Mohammadi-Kordkhayli M, Larussa T, et al. Vitamin D down-regulates the expression of some Th17 cell-

related cytokines, key inflammatory chemokines, and chemokine receptors in experimental autoimmune encephalomyelitis. *Nutritional neuroscience*. 2018;1-13.

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