

CURRICULUM VITAE

Abdollah Jafarzadeh

Professor of Immunology

PERSONAL:

First name: Abdollah

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Date of Birth: 01.07.1966

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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, 2010-2016.

5- Professor of Immunology, KUM, Kerman, Iran, 2016-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 (2017-2022).
- 2- Head of Department of Immunology in Rafsanjan university of Medical Sciences (2014-2023).
- 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 S, Nemati M, Zandvakili R, **Jafarzadeh A**. Modulation of M1 and M2 macrophage polarization by metformin: Implications for inflammatory diseases and malignant tumors. *Int Immunopharmacol*. 2025;151:114345.
2. Mortazavi SAR, **Jafarzadeh A**, Ghadimi-Moghadam A, Mortazavi SMJ, Haghani M, Ghadimi-Moghadam A, et al. Breakthrough Infection and Death after COVID-19 Vaccination: A Physics Perspective. *Journal of biomedical physics & engineering*. 2025;15(3):299-306.
3. **Jafarzadeh A**, Khorramdelazad H, Jafarzadeh Z, Nemati M. A reappraisal of the contribution of Th9 cells and interleukin-9 to the pathogenesis of rheumatoid arthritis. *Human immunology*. 2025;86(4):111343.
4. Jafarzadeh S, **Jafarzadeh A**, Zandvakili R, Nemati M, Jafari A, Morshedi M, et al. Regulation and function of microRNA-152 in various types of cancers: its upstream regulators and downstream targets. *Clinical and experimental medicine*. 2025;25(1):244.
5. Keyhani A, **Jafarzadeh A**, Sharifi I, Salarkia E. Leptin enhances the efficacy of glucan time to modulate macrophage polarization toward the M1 phenotype in *Leishmania tropica*-infected macrophages. *Parasites & vectors*. 2025;18(1):360.
6. Frootan R, Rokhbakhsh-Zamin F, **Jafarzadeh A**, Zarandi ER, Kazemipour N. Enhancing the Antimicrobial Effectiveness of Zinc Oxide Nanoparticles Against *Staphylococcus*

aureus, Through Combination with Potassium and Zingerone. *Current microbiology*. 2025;82(9):444.

7. Bamorovat M, Sharifi I, Shafiei Bafti M, Agha Kuchak Afshari S, Aflatoonian MR, Karamoozian A, **Jafarzadeh A**, et al. Cutaneous Leishmaniasis Hampers COVID-19: A Controlled Cross-Sectional Study in High-Burden Endemic Areas of Iran. *Journal of epidemiology and global health*. 2024;14(1):142-53.
8. Basirjafar P, **Jafarzadeh A**, Salimian J. Leptin/LPS-treated dendritic cells reduce the expression of genes involved in tumor tissue metastasis and angiogenesis in an animal model of breast cancer. *Immunologic research*. 2024;73(1):2.
9. Bevelacqua JJ, Ghadimi-Moghadam A, Mortazavi SA, **Jafarzadeh A**, Haghani M, Kaveh-Ahangar A, et al. Time Reveals the Truth! What Treatments for COVID-19 Were Quickly Abandoned, and Which Methods, Contrary to Popular Belief, Are Still Flourishing? *Journal of biomedical physics & engineering*. 2024;14(6):599-606.
10. Gheitasi M, Safdel S, Kumar Patra S, Zandvakili R, Nemati M, Saha B, **Jafarzadeh A**. Generation of immune cells from induced pluripotent stem cells (iPSCs): Their potential for adoptive cell therapy. *Human immunology*. 2024;85(5):110836.
11. **Jafarzadeh A**, Jafarzadeh Z, Nemati M, Yoshimura A. The Interplay Between *Helicobacter pylori* and Suppressors of Cytokine Signaling (SOCS) Molecules in the Development of Gastric Cancer and Induction of Immune Response. *Helicobacter*. 2024;29(3):e13105.
12. **Jafarzadeh A**, Naseri B, Khorramdelazad H, Jafarzadeh S, Ghorbaninezhad F, Asgari Z, et al. Reciprocal Interactions Between Apelin and Noncoding RNAs in Cancer Progression. *Cell biochemistry and function*. 2024;42(7):e4116.
13. **Jafarzadeh A**, Zandvakili R, Jafarzadeh Z, Nemati M. Dysregulated expression of the suppressors of cytokine signaling (SOCS) contributes to the development of prostate cancer. *Pathology, research and practice*. 2024;262:155558.
14. Khazaneha M, Bakhshinejad B, Mehrabani M, Sabahi A, Khaksari M, Shafiee M, **Jafarzadeh A**, et al. Machine learning in obsessive-compulsive disorder medications. *Heliyon*. 2024;10(21):e40136.
15. Masoumi M, **Jafarzadeh A**, Hadavi H, Nikoyan P, Falahati-Pour SK, Askari N, et al. Human Gut Microbiome Before and After Bariatric Surgery in Obese Patients with and Without Type 2 Diabetes. *Obesity surgery*. 2024;34(8):2835-43.

16. Motaghi M, **Jafarzadeh A**, Farsinejad A, Norouzi A, Khorramdelazad H, Farahmandinia Z, et al. Evaluation of the CCL17/CCL22-CCR4 axis in pediatrics with B-cell acute lymphoblastic leukemia before and after a chemotherapy course. *Cytokine*. 2024;182:156721.
17. Yousefi S, Basirjafar P, Zandvakili R, Masoumi J, Zainodini N, Khorramdelazad H, **Jafarzadeh A**. Glycyrrhiza Glabra Extract Modulates Type 1 T Helper (TH1) and Regulatory T Cell-Related Immune Responses in an Animal Model of Breast Cancer. *Iranian journal of immunology : IJI*. 2024;21(2):132-46.
18. Ahmadifard R, **Jafarzadeh A**, Mahmoodi M, Nemati M, Rahmani M, Khorramdelazad H, et al. Interferon- γ -Treated Mesenchymal Stem Cells Modulate the T Cell-Related Chemokines and Chemokine Receptors in an Animal Model of Experimental Autoimmune Encephalomyelitis. *Drug research*. 2023;73(4):213-23.
19. Baghaie L, Leroy F, Sheikhi M, **Jafarzadeh A**, Szewczuk MR, Sheikhi A. Contemporaneous SARS-CoV-2-Neutralizing Antibodies Mediated by N-glycan Shields. *Viruses*. 2023;15(10).
20. Basirjafar P, Zandvakili R, Masoumi J, Zainodini N, Taghipour Z, Khorramdelazad H,... **Jafarzadeh A**. Leptin/lipopolysaccharide-treated dendritic cell vaccine improved cellular immune responses in an animal model of breast cancer. *Immunopharmacology and immunotoxicology*. 2024;46(1):73-85.
21. Ebrahimi HA, Larizadeh MH, Saba M, **Jafarzadeh A**. Radiotherapy Improves the Disability in Patients with Secondary Progressive Multiple Sclerosis. *Journal of biomedical physics & engineering*. 2023;13(4):317-22.
22. **Jafarzadeh A**, Bazargan N, Chatrabnous N, Jafarzadeh S, Nemati M. Contribution of survivin to the immune system, allergies and autoimmune diseases. *Human immunology*. 2023;84(4):301-10.
23. **Jafarzadeh A**, Chauhan P, Nemati M, Jafarzadeh S, Yoshimura A. Aberrant expression of suppressor of cytokine signaling (SOCS) molecules contributes to the development of allergic diseases. *Clinical and experimental allergy : journal of the British Society for Allergy and Clinical Immunology*. 2023;53(11):1147-61.
24. **Jafarzadeh A**, Gurjar D, Bodhale N, Jafarzadeh S, Nemati M, Sharifi I, et al. Aberrant expression of SOCS impairs the anti-leishmanial immune response. *Cytokine*. 2024;174:156461.
25. **Jafarzadeh A**, Jafarzadeh S, Pardehshenas M, Nemati M, Mortazavi SMJ. Development and exacerbation of autoimmune hemolytic anemia following COVID-19 vaccination: A systematic review. *International journal of laboratory hematology*. 2023;45(2):145-55.

26. **Jafarzadeh A**, Nemati M, Salarkia E, Yadav S, Aminizadeh N, Jafarzadeh S, et al. Inflammatory responses during trichomoniasis: The role of Toll-like receptors and inflammasomes. *Parasite immunology*. 2023;45(8):e13000.
27. **Jafarzadeh A**, Sheikhi A, Jafarzadeh Z, Nemati M. Differential roles of regulatory T cells in Alzheimer's disease. *Cellular immunology*. 2023;393-394:104778.
28. Masoumi J, Zainodini N, Basirjafar P, Tavakoli T, Zandvakili R, Nemati M,... **Jafarzadeh A**. Apelin receptor antagonist boosts dendritic cell vaccine efficacy in controlling angiogenic, metastatic and apoptotic-related factors in 4T1 breast tumor-bearing mice. *Medical oncology (Northwood, London, England)*. 2023;40(6):179.
29. Sajadian M, Khademi B, Moinszadeh L, Ghaderi A, **Jafarzadeh A**, Razmkhah M. Modulation of semaphorin 3C & 4D expression in cancerous tissues from individuals with laryngeal squamous cell carcinoma. *The Indian journal of medical research*. 2023;158(4):432-8.
30. Zandvakili R, Basirjafar P, Masoumi J, Zainodini N, Taghipour Z, Khorramdelazad H,... **Jafarzadeh A**. Vaccination with celecoxib-treated dendritic cells improved cellular immune responses in an animal breast cancer model. *Advances in medical sciences*. 2023;68(1):157-68.
31. **Jafarzadeh A**, Motaghi M, Patra SK, Jafarzadeh Z, Nemati M, Saha B. Neutrophil generation from hematopoietic progenitor cells and induced pluripotent stem cells (iPSCs): potential applications. *Cytotherapy*. 2024.
32. Kamiab Z, Khorramdelazad H, Kafi M, **Jafarzadeh A**, Mohammadi-Shahrokhi V, Bagheri-Hosseiniabadi Z, et al. Role of Interleukin-17 family cytokines in disease severity of patients with knee osteoarthritis. *Advances in rheumatology (London, England)*. 2024;64(1):11.
33. **Jafarzadeh A among GBD Collaborators**. Global, regional, and national incidence of six major immune-mediated inflammatory diseases: findings from the global burden of disease study 2019. *EClinicalMedicine*. 2023;64:102193.
34. **Jafarzadeh A among GBD Collaborators**. Global, regional, and national burden of diabetes from 1990 to 2021, with projections of prevalence to 2050: a systematic analysis for the Global Burden of Disease Study 2021. *Lancet (London, England)*. 2023;402(10397):203-34.
35. **Jafarzadeh A among GBD Collaborators**. Global, regional, and national incidence and mortality burden of non-COVID-19 lower respiratory infections and aetiologies, 1990-2021: a systematic analysis from the Global Burden of Disease Study 2021. *The Lancet Infectious diseases*. 2024.
36. **Jafarzadeh A among GBD Collaborators**. Global burden of 288 causes of death and life expectancy decomposition in 204 countries and territories and 811 subnational

locations, 1990-2021: a systematic analysis for the Global Burden of Disease Study 2021. Lancet (London, England). 2024.

37. **Jafarzadeh A amoung GBD Collbarators.** Global, regional, and national age-specific progress towards the 2020 milestones of the WHO End TB Strategy: a systematic analysis for the Global Burden of Disease Study 2021. The Lancet Infectious diseases. 2024.
38. **Jafarzadeh A amoung GBD Collbarators.** Global, regional, and national burden of disorders affecting the nervous system, 1990-2021: a systematic analysis for the Global Burden of Disease Study 2021. The Lancet Neurology. 2024;23(4):344-81.
39. **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.
40. **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.
41. 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.
42. 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.
43. **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.
44. 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, Enayatradd 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.
45. 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.
 46. **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.
 47. Sharif-Zak M, Abbasi-Jorjandi M, Asadikaram G, Ghoreschi 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.
 48. 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.
 49. **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.
 50. 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.
 51. 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.
 52. **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.

53. **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.
54. Hassanshahi G, Hadavi M, **Jafarzadeh A**, Rezaeian M, Vazirinejad R, Sarkoobi 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.
55. 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.
56. 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.
57. **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.
58. 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.
59. **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.
60. 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.
61. 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.
62. **Jafarzadeh A**, Nair A, Jafarzadeh S, Nemati M, Sharifi I, Saha B. Immunological role of keratinocytes in leishmaniasis. *Parasite immunology*. 2021;43(9):e12870.

63. **Jafarzadeh A**, Nemati M, Jafarzadeh S. Contribution of STAT3 to the pathogenesis of COVID-19. *Microbial pathogenesis*. 2021;154:104836.
64. 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.
65. 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.
66. 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.
67. **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.
68. **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.
69. **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.
70. **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.
71. 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.
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