



Curriculum Vitae

Mahdi Taghadosi

Associate Professor of immunology, Department of immunology
Kermanshah University of Medical Sciences (KUMS) school of medicine

Date of birth:09/08/1977

Contact Information

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Foreign Languages: English

Education

1375-1380 B.S, Cellular and molecular biology, Tehran Shomal

1381-1383

MSc., Clinical immunology Tehran university of medical sciences

1387-1392 Ph.D. Clinical immunology Mashhad university of medical Sciences

Teaching Services

Medical Student Teaching

1-Basic immunology Kermanshah University of medical sciences 1392-1395.

2-practical immunology Kermanshah University of medical sciences 1392-1395

3-Immunological basis of Rheumatologic disease, pathophysiology course
Kermanshah University of medical sciences

Post-Graduate Teaching

Infectious immunology of MSc student.

Immunology 2 of MSc student.

Immunopathology of MSc student.

Treatment services:

Head of Transplant immunology Imam Reza hospital

Executive services:

Previous director of research Assessment and development of KUMS

Previous director of scholarly resources and information of KUMS

Previous Director of international medical student faculty of medicine

Previous Director of basic sciences of faculty of medicine

Research fields

Autoimmunity and inflammatory diseases

Publications:

1-Association between HLA Class I Alleles and Proviral Load in HTLV-I Associated Myelopathy/Tropical Spastic Paraparesis (HAM/TSP) Patients in Iranian Population *Iran J Basic Med Sci.* 2013 Mar; 16(3): 264–267.

2-. Tarokhian H, Taghadosi M, Rafatpanah H, Rajaee T, Azarpazhooh MR, Valizadeh N, Rezaee SR The effect of HTLV-1 virulence factors (HBZ, Tax, proviral load), HLA class I and plasma neopterin on manifestation of HTLV-1 associated myelopathy tropical spastic paraparesis. *Virus research.* 2017 Jan 15;228:1-6.

3-Macrophage plasticity, polarization and function in health and disease.Moghaddam AS, Mohammadian S, Vazini H, Taghadosi M, Esmaili SA, Mardani F, Seifi B, Mohammadi A, Afshari JT, Sahebkar A.*J Cell Physiol.* 2018 Jan 10. doi: 10.1002/jcp.26429.

4- Zarkesh, Maryam, et al. "Importance of Epigenetic Changes in the Thyroid Cancer Incidence and Their Therapeutic Applications." *Modares Journal of Medical Sciences: Pathobiology* 17.3 (2014): 1-24.

5-Study of the administration impact of titanium dioxide nanoparaticles during pregnancy on hemetological parameters and lipid profile in the mice offspring

Mazyar Fathi¹, Faramarz Jalili², Parnian Jalili³, Mohammad Reza Salahshoor⁴, Mahdi Taghadosi⁵, Maryam Sohrabi¹, Fariborz Bahrehmand⁶, Cyrus Jalili⁴

- 6- Jalili C, Salahshoor MR, Moradi MT, Ahookhash M, Taghadosi M, Sohrabi M. Expression Changes of Apoptotic Genes in Tissues from Mice Exposed to Nicotine. Asian Pacific journal of cancer prevention: APJCP. 2017;18(1):239.
- 7- Zafari P, Mostafaei S, Iranshahi N, Jalili C, Taghadosi M. Relationship between vitamin D plasma level and Foxp3 gene expression among rheumatoid arthritis patients. Scientific Journal of Kurdistan University of Medical Sciences. 2018 Feb 15;22(6):40-8.
- 8- Zafari P, Yari K, Mostafaei S, Iranshahi N, Assar S, Fekri A, Taghadosi M. Analysis of Helios gene expression and Foxp3 TSDR methylation in the newly diagnosed Rheumatoid Arthritis patients. Immunological investigations. 2018 Aug 18;47(6):632-42.
- 9- Iranshahi N, Assar S, Amiri SM, Zafari P, Fekri A, Taghadosi M. Decreased Gene Expression of Epstein–Barr Virus-Induced Gene 3 (EBI-3) may Contribute to the Pathogenesis of Rheumatoid Arthritis. Immunological investigations. 2018 Dec 2:1-1.
- 10- Zafari, Parisa, Rafiei, Alireza; Esmaeili, Seyed-Alireza ; Moonesi, Mohammadreza; Taghadosi, M. Journal of cellular physiology Survivin a pivotal anti-apoptotic protein in rheumatoid arthritis (Accepted, production).
- 11- Samimi Zahra, Kardideh Bahareh, Chalabi maryam, Zafari parisa, Taghadosi Mahdi, Brazilian journal of pharmaceutical sciences, Tumor Necrosis Factor- α (TNF- α) does not have any correlation with disease activity in rheumatoid arthritis patients treated with disease modifying anti-rheumatic drugs(DMARDs) .
- 12- Iranshahi N, Amiri SM, Zafari P, Taghaddosi M. The correlation between rheumatoid factor and anti cyclic citrullinated peptides with gene expression of FoxP3 in rheumatoid artheritis patients. International Journal of Biomedicine and Public Health. 2018 Jan 13;1(1):6-11.
- 13- Evaluation of Beclin-1 and Atg5 gene expression levels in Peripheral Blood Cells of Rheumatoid Arthritis patients" in KAUMS Journal (FEYZ) (Accepted, production).
- 14 -The impaired gene expression of adenosine monophosphate-activated kinase (AMPK), a key metabolic enzyme in leukocytes of newly diagnosed rheumatoid arthritis patients
Zahra Samimi^{1,2} · Bahareh Kardideh^{1,2} · Parisa Zafari^{3,4} · Fariborz Bahrehmand⁵ · Seyed Askar Roghani^{1,2} · Mahdi Taghadosi²
- 15 -Investigation of the plasma levels of CCL-17 and CCL-25 and their receptor gene expression in rheumatoid arthritis patients
Samimi Z¹, Kardideh B², Mohammadi-Farani A^{3,4}, Darabinejad M⁵, Taghadosi M

16- Asymmetric and symmetric dimethylarginine concentration as an indicator of cardiovascular diseases in rheumatoid arthritis patients: a systematic review and meta-analysis of case-control studies.

Zafari P^{1,2}, Zarifian A³, Alizadeh-Navaei R⁴, Taghadosi M⁵, Rafiei A¹, Samimi Z⁵, Niksolat F⁶.

17- Plasma Leptin Does Not Reflect the Effect of High Body Mass Index on Disease Activity in Rheumatoid Arthritis

Mahdi Taghadosi, Zahra Samimi, Shirin Assar, Mohammad Reza Salahshoor & Cyrus Jalili

18-Samimi Z, Izadpanah A, Feizollahi P, Roghani SA, Assar S, Zafari P, Taghadosi M. The association between the plasma sugar and lipid profile with the gene expression of the regulatory protein of mTOR (Raptor) in patients with rheumatoid arthritis. Immunological Investigations. 2020 Jun 24;1-2.

18-Sellegounder D, Zafari P, Rajabinejad M, Taghadosi M, Kapahi P. Advanced glycation end products (AGEs) and its receptor, RAGE, modulate age-dependent COVID-19 morbidity and mortality. A review and hypothesis. International immunopharmacology. 2021 Sep 1;98:107806.

19-Zafari P, Rafiei A, Faramarzi F, Ghaffari S, Amiri AH, Taghadosi M. Human fibroblast-like synoviocyte isolation matter: a comparison between cell isolation from synovial tissue and synovial fluid from patients with rheumatoid arthritis. Revista da Associação Médica Brasileira. 2021 Dec 13;67:1654-8.

20-Pournazari M, Feizollahi P, Roghani SA, Assar S, Soufivand P, Soleymani B, Bahrehmand F, Kish ZM, Taghadosi M. Increased plasma levels of CCL20 in peripheral blood of rheumatoid arthritis patients and its association with clinical and laboratory parameters. Clinical rheumatology. 2022 Jan;41(1):265-70.

21-Kamani M, Ghanbari A, Taghadosi M, Mansouri K, Jalili C. Harmine augments the cytotoxic and anti-invasive potential of temozolomide against glioblastoma multiforme cells. Jundishapur Journal of Natural Pharmaceutical Products. 2022 Jan 1;17(2).

22-Feizollahi P, Payandeh M, Samimi Z, Shahrokhvand SZ, Rezaei M, Mahdizadeh B, Taghadosi M. The association between killer cell immunoglobulin-like receptor-ligand (KIR-L) and breast cancer risk among the Kermanshahi women. Meta Gene. 2022 Feb 1;31:101005.

23-Hassan NH, Shamsi A, Soufivand P, Bahrehmand F, Taghadosi M, Roghani SA. The Relationship of Inflammatory Chemokine, CXCL12, with NT-proBNP: A Marker of Congestive Heart Failure in Rheumatoid Arthritis Patients. Journal of Kermanshah University of Medical Sciences. 2023;27(4).

24-Taghadosi M, Safarzadeh E, Asgarzadeh A, Roghani SA, Shamsi A, Jalili C, Assar S, Soufivand P, Pournazari M, Feizollahi P, Nicknam MH. Partners in crime: autoantibodies complicit in COVID-19 pathogenesis. Reviews in medical virology. 2023 Mar;33(2):e2412.

25-Zafari P, Taghadosi M, Faramarzi F, Rajabinejad M, Rafiei A. Dimethyl fumarate inhibits fibroblast like synoviocytes-mediated inflammation and joint destruction in rheumatoid arthritis. *Inflammation*. 2023 Apr;46(2):612-22.

26-Roghani SA, Lotfi R, Soleymani B, Samimi Z, Feizollahi P, Asar S, Abdan Z, Khorasanizadeh A, Taghadosi M. Investigating the correlation of the NF- κ B and FoxP3 gene expression with the plasma levels of pro-and anti-inflammatory cytokines in rheumatoid arthritis patients. *Clinical rheumatology*. 2023 May;42(5):1443-50.

27-Farhadian N, Sharifi S, Taghadosi M, Farhadian M, Vaziri S. Humoral immune response to two doses of COVID-19 mRNA-based vaccines in people living with HIV: A systematic review and meta-analysis. *Reviews in Medical Virology*. 2023 Jul;33(4):e2451.

28-Farhadian N, Farhadian M, Zamanian MH, Taghadosi M, Vaziri S. Sotrovimab therapy in solid organ transplant recipients with mild to moderate COVID-19: a systematic review and meta-analysis. *Immunopharmacology and immunotoxicology*. 2023 Jul 4;45(4):402-8.

29-Shamsi A, Roghani SA, Abdan Z, Soufivand P, Pournazari M, Bahrehmand F, Vafaei A, Salari N, Soroush MG, Taghadosi M. CXCL9 and its receptor CXCR3, an important link between inflammation and cardiovascular risks in RA patients. *Inflammation*. 2023 Dec;46(6):2374-85.

30-Assar S, Dastbaz M, Amini K, Roghani SA, Lotfi R, Taghadosi M, Kafi H, Abdan Z, Allahyari H, Rostampour R, Shahrokhvand SZ. Assessing the gene expression of the adenosine 5'-monophosphate-activated protein kinase (AMPK) and its relation with the IL-6 and IL-10 plasma levels in COVID-19 patients. *Molecular Biology Reports*. 2023 Dec;50(12):9925-33.

31-Roghani SA, Lotfi R, Soroush MG, Khorasanizadeh A, Feizollahi P, Assar S, Soufivand P, Pournazari M, Mohammadi Kish Z, Taghadosi M. Increased gene expression of CCR6 and ROR γ t in peripheral blood cells of rheumatoid arthritis patients and their correlation with anti-cyclic citrullinated peptide and disease activity. *Immunity, Inflammation and Disease*. 2023 Dec;11(12):e1112.

32-Shamsi A, Roghani SA, Soufivand P, Pournazari M, Khoobakht F, Bahrehmand F, Taghadosi M. CXCL9 and NT-proBNP, a notable link between inflammatory mediator and cardiovascular disease biomarker in rheumatoid arthritis. *Clinical Rheumatology*. 2024 Jan;43(1):137-45.

33-Taghadosi M, Pazhouhi M, Shahveisi K, Khalvandi Z, Jalili C. Investigating the effect of hydroalcoholic extract of *Prosopis farcta* fruit on the toxicity induced by temozolomide in glioblastoma cell line in vitro.

34-Roghani SA, Dastbaz M, Lotfi R, Shamsi A, Abdan Z, Rostampour R, Soleymani B, Zamanian MH, Soufivand P, Pournazari M, Taghadosi M. The development of anticyclic citrullinated peptide (anti-CCP) antibody following severe COVID-19. *Immunity, Inflammation and Disease*. 2024 May;12(5):e1276.

35-Roghani SA, Shamsi A, Jalili C, Jalili F, Lotfi R, Garman N, Rostampour R, Taghadosi M. Interleukin-6 positively correlates with cardiovascular disease predictor algorithms and biomarker in rheumatoid arthritis patients. *Journal of Cellular and Molecular Medicine*. 2024 Aug;28(16):e70028.

36-Shamsi A, Roghani SA, Shamsi M, Jalili C, Taghadosi M, Soufivand P. miR-6089 may prevent the inflammatory events leading to cardiovascular disorders in RA patients. *Heliyon*. 2024 Sep 15;10(17).

37-Panahi P, Hashemian AH, Payandeh M, Taghadosi M, Nomanpour B. Gut microbiota and graft-versus-host disease in hematopoietic stem cell transplant patients. *Iranian Journal of Microbiology*. 2024 Oct;16(5):648.

38-Javadfar Z, Soltani S, Khamoushi F, Sharifi M, Moradi S, Rezaeian S, Foroughi AA, Cheshmeh S, Taghaddosi M, Bahrehmand F. Effect of vitamin D supplementation on inflammatory status and behavioral symptoms in children with autism spectrum disorders: a double-blind randomized clinical trial. *BMC pediatrics*. 2025 Dec;25(1):1-1.

Currently graduate thesis supervision:

1-Study and comparison of gene expression of molecules involved in the citrullination process, including PAD4, HIF-1 α , TLR7, miRNA-4693-5p and miRNA-34a-3p, in the treatment of peripheral blood mononuclear cells with exosomes derived from human umbilical cord mesenchymal stem cells in patients with rheumatoid arthritis and healthy individuals

2-Measurement of serum BMP10 concentration, inflammatory marker NT-proBNP, and GATA6 gene expression in cardiovascular patients and investigation of the relationship of these factors with patients with chronic rheumatoid arthritis

3- Investigating the effect of treating peripheral blood mononuclear cells with exosomes derived from human placental mesenchymal stem cells on gene expression of Let-7g-5p, miR-17-5p, miR-155, STAT3, and IL-17 as components of the JAK-STAT3 signaling pathway in patients with rheumatoid arthritis and comparing it with healthy individuals

