

PERSONAL DETAILS

First Name(s): Merat

Surname: Mahmoodi

Date of Birth (Mo/Day/Yr): 9/3/1985

Sex: Female

Marital status: Married

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Education:

BSc: laboratory Medicine, Kerman University (2004/2009)

MSc: Immunology, Kerman University (2011/2013)

Ph.D: Mashhad University of Medical Sciences (201۳/۲۰۱۸)

Thesis

MSc thesis:

Comparison of immune response of macrophage activated with *Leishmania mexicana* H-line with wild-type parasite

Ph.D thesis:

Evaluation of immunological effects of *Thymus vulgaris*, *Lavandula angustifolia*, *Carvavrol* and *1,8 cineole* on EAE model

Articles:

- ❖ **Merat Mahmoodi,.....**In Vitro Effects of Curcumin in Free and Phytosomal Forms on the Expression of T helper1 and regulatory T cells' transcription factors in Collagen-Induced Arthritis. 2024, advanced Biomedical Research.
- ❖ Merat Mahmoodi, Fatemeh Mohammadi Henjeroei, Gholamhossein Hassanshahi, Reza Nosratabadi Do chemokine/chemokine receptor axes play paramount parts in trafficking and oriented locomotion of monocytes/macrophages toward the lungs of COVID-19 infected patients? 2024, Cytokine.
- ❖ Banafshe Abadi, Jahangir Abdesheikhi, Farnaz Sedghy, **Merat Mahmoodi**, ...Silibinin improved the function of T cells in peripheral blood mononuclear cells (PBMCs) co-cultured with U-87 MG cell line. 2023, Avicenna Journal of Phytomedicine
- ❖ Reza Ahmadifard, Abdollah Jafarzadeh, **Merat Mahmoodi**,Interferon- γ -Treated Mesenchymal Stem Cells Modulate the T Cell-Related Chemokines and Chemokine Receptors in an Animal Model of Experimental Autoimmune Encephalomyelitis. 2023, Drug Research.
- ❖ Mohammad Amin Rajizadeh, Mohammad Abbas Bejeshk, Amir Hossein Doustimotlagh, Hamid Najafipour, Maryam Eftekhari, **Merat Mahmoodi**,...The Alleviating Impacts of Quercetin on Inflammation and Oxidant-antioxidant Imbalance in Rats with Allergic Asthma. 2023, Iranian Journal of Allergy, Asthma and Immunology.
- ❖ Jahangir Abdesheikhi, Farnaz Sedghy, **Merat Mahmoodi,....** Metabolic Regulation of T cell Activity: Implications for Metabolic-Based T-cell Therapies for Cancer. 2023, Iranian biomedical journal.

- ❖ Atefeh Najmadini, Mohammad Mahdi Mohammadi, Ladan Langroudi, Hosseinali Ebrahimi Meimand, **Merat Mahmoodi**,... Increased expression of PD-1 in CD8 + CD3 + T cells correlates with EBV viral load in MS patients. 2022, Journal of NeuroVirology

- ❖ JahangirAbdesheikhi , Farnaz Sedghy, Alireza Farsinejad, **Merat Mahmoodi**...Protective potential of piroxicam on human peripheral blood mononuclear cells against the suppressive capacity of glioblastoma cell lines. 2020, Scientific Reports.

- ❖ Morteza Jafarinia, Fereshteh Alsahebhosoul, HosseinSalehi, Nahid Eskandari, Maryam Azimzadeh, **Merat Mahmoodi**,... Therapeutic effects of extracellular vesicles from human adipose-derived mesenchymal stem cells on chronic experimental autoimmune encephalomyelitis. 2020, Cellular physiology.

- ❖ Maryam Azimzadeh, **Merat Mahmoodi**...The immunoregulatory and neuroprotective effects of human adipose derived stem cells overexpressing IL-11 and IL-13 in the experimental autoimmune encephalomyelitis mice. .2020, International Immunopharmacology

- ❖ **Merat Mahmoodi**, Farnaz Sedghy, Abdollah Jafarzadeh. Effect of Treatment with Thyme Extract on Urinary Levels of Melatonin in an Experimental Autoimmune Encephalomyelitis Mouse Model. 2020, Reports of Biochemistry and Molecular Biology.

- ❖ **Merat Mahmoodi**, Houshang Amiri, Fatemeh Ayoobi, Mehdi Rahmani, Zahra Taghipour, Razieh Taghizadeh Ghavamabadi, Abdollah Jafarzadeh, Mojtaba Sankian. Carvacrol ameliorates experimental autoimmune encephalomyelitis through modulating pro- and anti-inflammatory cytokines. 2019, Life sciences.

- ❖ **Merat Mahmoodi**, Fatemeh Ayoobi, Azita Aghaei, Mehdi Rahmani, Zahra Taghipour, Azar Hosseini, Abdollah Jafarzadeh, Mojtaba Sankian. Beneficial effects of *Thymus vulgaris* extract in experimental autoimmune encephalomyelitis: Clinical, histological and cytokine alterations. 2019, Biomedicine& Pharmacotherapy.

- ❖ **Merat Mahmoodi**, Maryam Ghodsi, Malihe Moghadam, and Mojtaba Sankian. Pulsed Dilution Method for the Recovery of Aggregated Mouse TNF- α . 2017 Reports of Biochemistry and Molecular Biology.

- ❖ Maliheh Moradzadeh , Hamid Reza Sadeghnia, Seyed Hadi Mousavi, **Merat Mahmoodi**, Azar Hosseini. Ferula gummosa gum induces apoptosis via ROS mechanism in human leukemic cells. 2017, Cellular and Molecular Biology.

- ❖ MaryamNemati, Tiziana Larussac, Hossein Khorramdel, **MeratMahmoodi**, Abdollah Jafarzadeh. Toll-like receptor 2: An important immunomodulatory molecule during Helicobacter pylori infection. 2017 Life sciences

- ❖ Mohammad Reza Bazrafshani, Kay V. Poulton, **Mahmoodi M.** A Linkage and association analysis study in the multidrug resistance gene 1 (mdr1) in renal patients. Int J Mol Epidemiol Genet. 2012, International Journal of Molecular Epidemiology and Genetics

Presentation & Congress:

- ❖ **Mahmoodi M**, Daneshvar H. cytokine production by infected macrophage with the gentamicine attenuated *Leishmania mexicana*. 11th international congress of immunology and allergy. Tehran- Iran. April 2012. Iranian Journal of Immunology, Vol 9, Supp 1, April 2012.

- ❖ **Mahmoodi M**, Daneshvar H. inhibition IL10 by macrophages stimulated with gentamicin- attenuated *Leishmania mexicana*. 1st international and 8th national congress of parasitology and parasitic disease in iran. Kerman-Iran, 16-18 october 2012.

Technical Skills:

1. Real Time PCR, PCR, DNA & RNA Isolation
2. Flow cytometry
3. ELISA
4. Cell culture
5. PCR RFLP, SSP,
6. Cloning
7. HLA Typing
9. primer design
10. EAE induction model
11. CIA induction model
12. Herbal extract