



**IN THE NAME OF GOD**

**Curriculum Vitae**

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Date of Birth: 21/03/1990

ID card No: 4200111799

Nationality: Iranian

Marital status: single

**Languages**

- Persian

- English

**Membership**

Iranian Society of Immunology & Allergy

Member of the National Elite Foundation

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### **Educational Information:**

**2015- 2021**            **Ph.D.** in Medical Immunology, Mashhad University of Medical sciences, Mashhad, Iran.

**2012-2015**            **M.Sc.** in Medical Immunology, Shahid Beheshti University of Medical sciences, Tehran, Iran.

**2008-2012**            **Bachelor degree** in Biology, Lorestan University, Khorramabad, Iran.

**2008**                    **Experimental science** diploma, Delfan, Iran.

### **M.Sc. thesis title:**

**Correlation between Gingival expression of STAT1 and Wnt5a with periodontal disease.**

### **Supervisor:**

Dr, M. Sattari, Department of Medical Immunology, Faculty of Medicine, Shahid Beheshti University of Medical Sciences, Tehran, Iran.

### **Ph.D. thesis title:**

**Evaluation of anti-tumor immune responses induced by soluble Lymphocyte Activation Gene-3 -conjugated liposomes containing P5 peptide in mouse model of breast cancer.**

### **Supervisors:**

Dr, j. Tavakol Afshari, Department of Medical Immunology, Faculty of Medicine, Mashhad University of Medical Sciences, Mashhad, Iran.

Dr, MR. Jaafari, Department of Pharmaceutical Nanotechnology, School of Pharmacy, Mashhad University of Medical Sciences, Mashhad, Iran.

### **PUBLICATIONS:**

- **Correlation between Gingival Expression of STAT1 and Chronic Periodontitis.**  
**Saeed M**, Sattari M, Yeganeh F, Sarira Shahnava. *International Journal of Dentistry and Oral Science (IJDOS)*.

- **Curcumin: A natural modulator of immune cells in systemic lupus erythematosus.** Amir Abbas Momtazi-Borojeni, **Saeed Mohammadian Haftcheshmeh**, Seyed-Alireza Esmaeili, Thomas P. Johnston, Elham Abdollahi, Amirhossein Sahebkar. *Autoimmunity reviews*. IF: 8.74
- **Macrophage plasticity, polarization and function in health and disease.** Abbas Shapouri Moghaddam, **Saeed Mohammadian**, Hossein Vazini, Mahdi Taghadosi, Seyed-Alireza Esmaeili, Fatemeh Mardani, Bita Seifi, Asadollah Mohammadi, Jalil Tavakol Afshari, Amirhossein Sahebkar. *Journal of Cellular Physiology*. IF: 3.95
- **Manipulating macrophage polarization and function using classical HDAC inhibitors: implications for autoimmunity and inflammation.** Asadollah Mohammadi, Atefeh Sharifi, Reza Pourpaknia, **Saeed Mohammadian**, Amirhossein Sahebkar. *Critical Reviews in Oncology/Hematology*. IF: 5.01
- **The clinical importance of CD4<sup>+</sup>CD7<sup>-</sup> in human diseases.** **Saeed Mohammadian Haftcheshmeh**, Amir Tajbakhsh, Mohaddese Kazemi, Seyed-Alireza Esmaeili, Fatemeh Mardani, Mostafa Fazeli, Amirhossein Sahebkar. *Journal of Cellular Physiology*. IF: 3.95
- **Evaluation of STAT1 and Wnt5a gene expression in gingival tissues of patients with periodontal disease.** **Saeed Mohammadian Haftcheshmeh**, Asadollah Mohammadi, Arash Soltani, Amir Abbas Momtazi-Borojeni, Mandana Sattari. *Journal of Cellular Biochemistry*. IF: 2.94
- **The comparative study of the effects of Fe<sub>2</sub>O<sub>3</sub> and TiO<sub>2</sub> micro- and nanoparticles on oxidative states of lung and bone marrow tissues and colony stimulating factor secretion.** Arash Soltani, Kolsoum Rezaie Kahkhaie, **Saeed Mohammadian Haftcheshmeh**, Ahmad Ali Jalali Nezhad, Masoud Mashhadi Akbar Boojar. *Journal of Cellular Biochemistry*. IF: 2.94
- **Evaluation of vitamin D3 deficiency: A population-based study in northeastern Iran.** Seyed-Alireza Esmaeili, **Saeed Mohammadian**, Shabnam Radbakhsh., Amir Abbas Momtazi-Borojeni, Payam Kheirmand Parizi, Hadi Atabati, Fatemeh Mardani, Ehsan Saburi, Abbas Shapouri Moghaddam. *Journal of Cellular Biochemistry*. IF: 2.94

- **Assessment of the protective effect of KN-93 drug in systemic epilepsy disorders induced by pilocarpine in male rat.** Fatemeh Ebrahimi, Seyed Shahabeddin Sadr, Mehrdad Roghani, Safoura Khamse, **Saeed Mohammadian Haftcheshmeh**, Mojdeh Navid Hamidi, Parvaneh Mohseni-Moghaddam, Elham Zamani. *Journal of Cellular Biochemistry*. IF: 2.94
- **V617F-independent upregulation of JAK2 gene expression in patients with inflammatory bowel disease.** Hamid Asadzadeh-Aghdaei, Kazem Mashayekhi, Khadijeh Koushki, Pedram Azimzadeh, Mohammad Rostami-Nejad, Vahid Chaleshi, **Saeed Mohammadian Haftcheshmeh**, Amirhossein Sahebkar, Mohammad Reza Zali. *Journal of Cellular Biochemistry*. IF: 2.94
- **Curcumin: a modulator of inflammatory signaling pathways in the immune system.** Kolsoum Rezaie Kahkhaie, Ali Mirhosseini, Ali Aliabadi, Asadollah Mohammadi, Mohammad Javad mosavi, **Saeed Mohammadian Haftcheshmeh\***, Thozhukat Sathyapalan, Amirhossein Sahebkar. *Inflammopharmacology*. (\* corresponding author). IF: 3.83
- **Modulatory effects of curcumin on the atherogenic activities of inflammatory monocytes: Evidence from in vitro and animal models of human atherosclerosis.** **Saeed Mohammadian Haftcheshmeh**, Mohammad R. Karimzadeh, Sara Azhdari, Parviz Vahedi, Elham Abdollahi, Amir A. Momtazi-Borojeni. *Biofactors*. IF: 3.59
- **Production and Characterization of Monoclonal Antibody against Vit v1: A Grape Allergen Belonging to Lipid Transfer Protein Family.** Mitra Hosseinpour, Kazem Mashayekhi, Reza Falak, Sirous Jamalzehi, **Saeed Mohammadian Haftcheshmeh**, Mohammad Javad Mousavi, Anvar Soleimani, Khadijeh Koushki, Mojtaba Sankian, and Mohammad Soukhtanloo. *Iranian Journal of Allergy, Asthma and Immunology (IJAAI)*. IF: 1.2
- **Curcumin: a Dietary Phytochemical for Targeting the Phenotype and Function of Dendritic Cells.** Kaveh Rahimi, Kambiz Hassanzadeh, Hashem Khanbabaei, **Saeed Mohammadian Haftcheshmeh**, Abbas Ahmadi, Esmael Izadpanah, Asadollah Mohammadi1, Amirhossein Sahebkar. *Current Medicinal Chemistry*. IF: 3.85

- **Immunomodulatory Therapeutic Effects of Curcumin in Rheumatoid Arthritis.** **Saeed Mohammadian Haftcheshmeh**, Amir A. Momtazi-Borojeni. *Autoimmunity reviews*. IF: 7.9
- **Promising Anti-atherosclerotic Effect of Berberine: Evidence from In Vitro, In Vivo, and Clinical Studies.** Alireza Fatahian, **Saeed Mohammadian Haftcheshmeh**, Sara Azhdari, Helaleh Kaboli Farshchi, Banafsheh Nikfar, and Amir Abbas Momtazi-Borojeni. *Reviews of Physiology, Biochemistry and Pharmacology*. IF: 4.7
- **The potential neuroprotective roles of olive leaf extract in epilepsy rat model induced by kainic acid.** Safoura Khamse, **Saeed Mohammadian Haftcheshmeh**, Seyed Shahabeddin Sadr, Mehrdad Roghani, Mohammad Kamalinejad, Ravieh Golchoobian, Parvane Mohseni Moghaddam, Fatemeh Ebrahimi. *Research in Pharmaceutical Sciences*.
- **Immunomodulatory effects of curcumin in rheumatoid arthritis: Evidence from molecular mechanisms to clinical outcomes.** **Saeed Mohammadian Haftcheshmeh**, Arezou Khosrojerdi, Ali Aliabadi, Shadi Lotfi, Asadollah Mohammadi, and Amir Abbas Momtazi-Borojeni. *Reviews of Physiology, Biochemistry and Pharmacology*. IF: 4.7
- **Immunoliposomes bearing lymphocyte activation gene 3 fusion protein (LAG3-Ig) and P5 HER2/neu-derived peptide: a novel vaccine for breast cancer.** **Saeed Mohammadian Haftcheshmeh**, Parvin Zamani, Mohammad Mashreghi, Amin Reza Nikpoor, Jalil Tavakkol-Afsharig, Mahmoud Reza Jaafari. *Biotechnology Progress*. IF: 2.3
- **Liposomal doxorubicin targeting mitochondria: A novel formulation to enhance anti-tumor effects of Doxil<sup>®</sup> in vitro and in vivo.** **Saeed Mohammadian Haftcheshmeh**, Mahmoud Reza Jaafari, Mohammad Mashreghi, Amin Mehrabian, Seyedeh Hoda Alavizadeh, Parvin Zamani, Mohammad Hasan Darvishi, Fatemeh Gheybi. *Journal of Drug Delivery Science and Technology*. IF: 2.7
- **Serum level of soluble Lymphocyte-Activation Gene 3 is increased in patients with rheumatoid arthritis.** Nayyereh Saadati, Mandana khodashahi, Zahra Rezaieyazdi, Maryam Sahebari, Zeinab Saremi, **Saeed Mohammadian Haftcheshmeh**, Houshang Rafatpanah, Maryam Salehi. *Iranian Journal of Immunology*. IF: 1.06

- **Curcumin and cancer; are long non-coding RNAs missing link?** Arezoo Gowhari Shabgah, Sadiyah Hejri Zarifi, Seyedeh Shabnam Mazloumi Kiapey, Fatemeh Ezzatifar, Naseh Pahlavani, Davood Soleimani, **Saeed Mohammadian Haftcheshmeh**, Hamed Mohammadi, Jamshid Gholizadeh Navashenaq. *Progress in Biophysics and Molecular Biology*. IF: 2.17
- **CXC chemokine ligand 16: a Swiss army knife chemokine in cancer.** Arezoo Gowhari Shabgah, Maytham T. Qasim, Seyed Mojtaba Mostafavi, Angelina Olegovna Zekiy, Fatemeh Ezzatifar, Majid Ahmadi, **Saeed Mohammadian Haftcheshmeh** and Jamshid Gholizadeh Navashenaq. *Expert Reviews in Molecular Medicine*. IF: 3.87

### **Professional Background:**

- **Teaching medical immunology** to medical, dental, and pharmacy students in MUMS.
- **Certified** to participate in the *twelfth International Congress of Immunology and Allergy*.
- **Certified** to participate in the *Thirteenth International Congress of Immunology and Allergy*.
- **Certified** to present a lecture in the Thirteenth International Congress of Immunology and Allergy. *“Correlation between Gingival Expression of STAT1 and periodontal disease”*.
- **Certified** to present a poster in the 9th International Congress of Laboratory and Clinic. *“Gingival expression of Wnt5a in chronic periodontitis”*.
- **Certified** to present a poster in the 8th International e-congress on Nanoscience & Nanotechnology. *“Improving the therapeutic efficacy of Doxil® using mitochondriotropic SS-02 peptide. In vitro and in vivo study”*.
- **Certified** to present a poster in the 8th International e-congress on Nanoscience & Nanotechnology. *“Liposomal formulation containing P5 peptide and lymphocyte activation gene 3 fusion protein: a therapeutic vaccine for breast cancer immunotherapy”*.

- The main executor in a research project entitled *“The anti-cancer efficacy of liposomal doxorubicin modified with mitochondrial targeting SS-02 peptide in a model of lung cancer”*.
- The main executor in a research project entitled *“The impact of soluble lymphocyte activation gene-3 (sLAG3) conjugated to nanoliposomes containing p5 peptide on regulatory T cells in the mouse model of breast cancer”*.
- Project contributor in a research project entitled *“serum concentration of soluble LAG-3 in patients with rheumatoid arthritis, and its relation with severity, and response to the disease treatment”*.
- Certified to participate in the *“Liquid Biopsy for Cancer diagnosis Workshop”*.
- Certified to participate in the symposium on *“Cell Therapy in Autoimmune and Inflammatory Diseases”*, Gastroenterology and Liver Disease Research Center, Shahid Beheshti University of Medical Sciences.
- Ranked 7th of PhD entrance exam in Medical Immunology, 2015.

#### **Computer and software Skills:**

- General Computer skills and ICDL skills
- Familiar with specialized immunology sites
- Familiar into field of professional software like:
  - EndNote
  - SPSS
  - Graph pad prism
  - Beacon designer (primer & probe designing)
  - REST RG (Real time-PCR analysis)

#### **Lab skills:**

- Nucleic acid analysis including DNA extraction, RNA extraction, Gel Electrophoresis (Agarose and Poly acryl amide).
- cDNA synthesis.
- PCR and Real-time PCR.
- Familiarity with laboratory animals.
- Liposome preparation and characterization.
- Biodistribution assay
- Flow cytometry
- SDS-PAGE and Western blotting.
- Immuno-assay technique including ELISA.
- Isolation, Purification and Enrichment of PBMCs.
- NBT.
- Isolation of lymphocytes with Nylon wool technique.
- Cell culture.
- MTT cell proliferation assay.
- Annexin-V- test for apoptosis assay.
- Evaluation of cytotoxicity and cell proliferation by:
  - Calcein-AM assay
  - CFSE assay test

### **References:**

**Dr. Jallil. Tavakol**, Department of medical immunology, Faculty of Medicine, Mashhad University of Medical Sciences, Mashhad, Iran. E-mail: [tavakolaj@mums.ac.ir](mailto:tavakolaj@mums.ac.ir), Mobile: +98 915 113-4220.

**Dr. Mahmoud Reza. Jaafari**, Biotechnology Research Center, Nanotechnology Research Center, School of Pharmacy, Mashhad University of Medical Sciences, Mashhad, Iran. E-mail: [Jafarimr@mums.ac.ir](mailto:Jafarimr@mums.ac.ir), Mobile: +98 915 316-4001.

**Dr. Mandana. Sattari**, Department of medical immunology, Faculty of Medicine, Shahid Beheshti University of Medical Sciences, Tehran, Iran. E-mail: [mandanasattari@gmail.com](mailto:mandanasattari@gmail.com),  
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