Mazdak Ganjalikhani Hakemi, PhD

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EDUCATION

Doctor of Philosophy (PhD) in Immunology	2011
Isfahan University of Medical Sciences, Isfahan, Iran	
Master of Science in Immunology	2002
Tehran University of Medical Sciences, Tehran, Iran	
Bachelor of Science in Laboratory Sciences	1999
Iran University of Medical Sciences, Tehran, Iran	

RESEARCH AND MANAGERIAL EXPERIENCES

- Head of Department of Laboratory Sciences, Faculty of Medicine, Isfahan University of Medical Sciences. Since Aug 2020. Isfahan, Iran.
 - Responsibility for all educational affairs and administrative coordination
- Associate professor in Immunology Department, Faculty of Medicine, Isfahan University of Medical Sciences. Since Jul 2017. Isfahan, Iran.
- Assistant professor in Immunology Department, Faculty of Medicine, Isfahan University of Medical Sciences. Aug 2011 to Jul 2017. Isfahan, Iran.
- 4. Advisory Board Member of Post Graduate Education Committee. Faculty of Medicine, Isfahan University of Medical Sciences. Jan 2016 to September 2019. Isfahan, Iran.
- Deputy of Education of Immunology Department, Faculty of Medicine, Isfahan University of Medical Sciences. Since Jun 2014. Isfahan, Iran.
- 6. Head of "Cellular & Molecular Immunology Research Centre". Isfahan University of Medical Sciences. Jul 2013 to Jul 2015. Isfahan, Iran.
 - Responsibility to appoint a research committee and approve research projects

- Researcher (sabbatical) in Centre for Nanoscience, Pharmaceutical Biotechnology, Ludwig-Maximillians University. 2010-2011. Munich, Germany.
 - siRNA delivery improvement co-formulation of different modified polymers in erythroleukemic cell line

TEACHING EXPERIENCES

Immunology Department, Faculty of Medicine, Isfahan University of Medical Sciences. Since 2011. Isfahan, Iran:

- 1. Immunology (theory and practical) for international students of medicine.
- 2. Immunology (theory and practical) for students of medicine.
- 3. Immunology (theory) for B.Scs. students of Nutrition, Nursing and Operation room.
- 4. Immunology (theory and practical) for B.Scs. students of Laboratory Sciences.
- 5. Immunology (theory and practical) for students of Pharmacy.
- 6. Immunology 1 and 2 (theory) for M.Scs. students of Immunology.
- 7. Immunochemistry (theory and practical) for MSc and PhD students in Immunology.
- 8. Experimental methods in immunology for MSc students in Immunology.
- 9. Elementary Bioinformatic in molecular biology for M.Scs. and PhD students in Immunology.
- 10. Selective subjects in immunology for PhD students in Immunology.
- 11. Advanced immunology and Immunological methods for PhD. students in Microbiology.
- 12. Immunochemistry for PhD. students in Biochemistry.
- 13. Immunopathology for PhD. students in Immunology.
- 14. Clinical immunology for PhD. students in Molecular medicine.

HIGHLIGHT OF AWARDS

- 1st rank in Ph.D. program in Immunology. Isfahan University of Medical Sciences, Faculty of Medicine, Iran, Jul 2011.
- 3.5 years scholarship winner for PhD program. Isfahan University of Medical Sciences, Iran, Mar 2008.
- Winner of the best book of 2004 for translation of "Cellular& Molecular Immunology". Iran, 2004.
- 1st rank in M.Sc. program in Immunology. Tehran University of Medical Sciences, Faculty of Medicine, Iran, Jan 2001.

SUPERVISING AND MENTOR EXPERIENCE:

• **SUPERVISING**

- 1. Comparison of expression of Th17 cell's characteristic genes and ILC count in CVID patients with normal controls, Isfahan. Thesis for the degree of Master of Sciences in Immunology. Faculty of Medicine. Isfahan University of Medical Sciences. Isfahan, Iran (2013).
- 2. Evaluation of expression of characteristic genes of newly identified helper T cells in sputum and peripheral blood of asthmatic patients, Isfahan. Thesis for the degree of Master of Sciences in Immunology. Faculty of Medicine. Isfahan University of Medical Sciences. Isfahan, Iran (2013).
- 3. Comparing the frequency of tim-1-416G>C and 5383_5397ins/del polymorphisms in Asthmatic patients with healthy controls. Thesis for the degree of Master of Sciences in Immunology. Faculty of Medicine. Shahr-e Kord University of Medical Sciences. Shahr-e Kord, Iran (2014).
- 4. Effect of protein fractions of glycorrhizaon proliferation of gastrointestinal cancer cell line (HT-29,CT-26) death. Thesis for the degree of Master of Sciences in Immunology. Faculty of Medicine. Isfahan University of Medical Sciences. Isfahan, Iran (2014). Soheila Khazraei.
- Evaluation of the silencing effect of miR-330-5p on TIM-3 expression in AML cell lines. Thesis
 for the degree of Master of Sciences in Genetic. Faculty of Medicine. Azad University. Shahr-e
 Kord, Iran (2015).
- Evaluation of the silencing effect of miR-125a-3p on TIM-3 expression in AML cell lines. Thesis
 for the degree of Master of Sciences in Genetic. Faculty of Medicine. Azad University. Shahr-e
 Kord, Iran (2015).
- 7. Comparison of the frequency of R381Q functional variant of IL-23 receptor gene, in population of asthmatic patients and control group. Thesis for the degree of Master of Sciences in Immunology. Faculty of Medicine. Isfahan University of Medical Sciences. Isfahan, Iran (2015).
- 8. Comparing the frequency of tim-3 4259 G>T and -882 C>T polymorphisms in Asthmatic patients with healthy controls. Thesis for the degree of Master of Sciences in Immunology. Faculty of Medicine. Isfahan University of Medical Sciences. Isfahan, Iran (2015). Maryam Sadri.
- 9. Comporison of transitional B cell and mutations in BAFFR in Allergic Common variable Immune deficiency (CVID) patients. Thesis for the degree of Master of Sciences in Immunology. Faculty of Medicine. Isfahan University of Medical Sciences. Isfahan, Iran (2015).
- 10. Construction and characterization of recombinant HEK cell over- expressing TIM-3. Thesis for the degree of Master of Sciences in Biotechnology. Faculty of Medicine. Isfahan University of Medical Sciences. Isfahan, Iran (2015).
- 11. A comparison of the effects of Silymarin and Rapamycin on the generation of regulatory T cells

- from naïve T cells in vitro. Thesis for the degree of Master of Sciences in Immunology. Faculty of Medicine. Isfahan University of Medical Sciences. Isfahan, Iran (2015). Serineh Shajanian.
- 12. Assessment of the frequency of TIM-1 5387-5397ins/del polymorphism and TIM3 -1541 C>T polymorphism in patients with Multiple sclerosis and healthy controls. Thesis for the degree of Master of Sciences in Immunology. Faculty of Medicine. Isfahan University of Medical Sciences. Isfahan, Iran (2015). Fariba Mazrouei.
- 13. Comparing the frequency of tim-3 4259 G>T and tim-1 -1637 A>G polymorphisms in Multiple Sclerosis patients with healthy controls. Thesis for the degree of Master of Sciences in Immunology. Faculty of Medicine. Isfahan University of Medical Sciences. Isfahan, Iran (2015).
- 14. Analysis of mir-34a and mir-199a expression in peripheral blood cells of patients with relapsing-remitting multiple sclerosis (RR-MS) in Isfahan province. Thesis for the degree of Master of Sciences in Immunology. Faculty of Medicine. Shahr-e Kord University of Medical Sciences. Shahr-e Kord, Iran (2015).
- 15. Evaluation of the expression level of miR-181b-1 and its two targets, CYLDand NF-κB in breast cancer progression. Thesis for the degree of Master of Sciences in Immunology.Faculty of Medicine. Isfahan University of Medical Sciences. Isfahan, Iran (2015). Shadi Rashed.
- 16. Construction and characterization of recombinant HEK cell over-expressing TIM-1. Thesis for the degree of Master of Sciences in Immunology. Faculty of Medicine. Tabriz University of Medical Sciences. Isfahan, Iran (2015).
- 17. Evaluation of the expression of BCMA gene and its protein on B cells as well as counting peripheral blood plasma blasts in patients with CVID in compare with normal individuals. Thesis for the degree of Master of Sciences in Immunology. Faculty of Medicine. Isfahan University of Medical Sciences. Isfahan, Iran (2016).
- 18. Evaluation of the silencing effect of miR-133a on TIM-3 expression in AML cell lines. Thesis for the degree of Master of Sciences in Genetic. Faculty of Biology. University of Isfahan. Isfahan, Iran (2016).
- 19. Evaluation of the effect of vascular Endothelial Growth Factor peptide-based vaccine on inhibition of metastases in mice with breast cancer. Thesis for the degree of Master of Sciences in Immunology. Faculty of Medicine. Isfahan University of Medical Sciences. Isfahan, Iran (2016). Banafsheh Fazeli.
- 20. Production of camel antibody (nanobody) specific for immune regulatory molecule, TIM-3 using phage display technology. Thesis for the degree of Doctor of philasophy. Faculty of Medicine. Isfahan University of Medical Sciences. Isfahan, Iran (2016).
- 21. Evaluation of VEGF peptide-based vaccine on inhibition of proliferation in tumor cell lines. Thesis for the degree of Master of Sciences in Immunology. Faculty of Medicine. Isfahan University of Medical Sciences. Isfahan, Iran (2016).

- 22. Classification of patients with common variable immunodeficiency (CVID) using different categories of B-cell maturation in compare with healthy subjects. Faculty of Medicine. Isfahan University of Medical Sciences. Isfahan, Iran (2016).
- 23. Comparison of the expression profile of pro-apoptotic genes in systemic sclerosis dermal fibroblasts with normal controls. Thesis for the degree of Master of Sciences in Immunology. Faculty of Medicine. Isfahan University of Medical Sciences. Isfahan, Iran (2016).
- 24. Evaluation of apoptosis and expression levels of signaling molecules downstream of PI3K in B cells of CVID patients compared with healthy controls. Thesis for the degree of PhD in Immunology. Faculty of Medicine. Isfahan University of Medical Sciences. Isfahan, Iran (2016).
- 25. Evaluation of effects of murine interleukin-18 expressed in lactococcus lactis on ulcerative colitis in murine model. Thesis for the degree of Doctorof Philosophy in Immunology. Faculty of Medicine. Isfahan University of Medical Sciences. Isfahan, Iran (2016). Sadegh Feizollahzadeh.
- 26. Evaluation of the myosin F gene silencing effect in Toxoplasma gondii as a new therapeutic target against toxoplasmosis using RNAi technology. Thesis for the degree of Master of Sciences in Biology. Faculty of Biology. Noor Danesh University. Isfahan, Iran (2017).
- 27. Evaluation of the myosin A gene silencing effect in Toxoplasma gondii as a new therapeutic target against toxoplasmosis using RNAi technology. Thesis for the degree of Master of Sciences in Biology. Faculty of Biology. Noor Danesh University. Isfahan, Iran (2017).
- 28. Evaluation of the myosin C gene silencing effect in Toxoplasma gondii as a new therapeutic target against toxoplasmosis using RNAi technology. Thesis for the degree of Master of Sciences in Biology. Faculty of Biology. Noor Danesh University. Isfahan, Iran (2017).
- 29. Evaluation of the dihydrofulate reductase gene silencing effect in Toxoplasma gondii as a new therapeutic target against toxoplasmosis using RNAi technology. Thesis for the degree of Master of Sciences in Parasitology. Faculty of Medicine. Isfahan University of Medical Sciences. Isfahan, Iran (2017).
- 30. Evaluation of the silencing effect of miR-326 on TIM-3 expression in AML cell lines. Thesis for the degree of Master of Sciences in Immunology. Faculty of Medicine. Isfahan University of Medical Sciences. Isfahan, Iran (2017).
- 31. Investigation of Sema3A gene expression of Multiple sclerosis patients in relapsing and remitting stages and evaluation of the effect of miR-497 on its expression in normal PBMCs. Thesis for the degree of Master of Sciences in Immunology. Faculty of Medicine. Isfahan University of Medical Sciences. Isfahan, Iran (2017).
- 32. Investigation of Sema-3A level in serum sample of Multiple sclerosis patients in relapsing and remitting stages and evaluation of the effect of miR-145 on expression of sema-3A's gene in normal PBMCs. Thesis for the degree of Master of Sciences in Immunology. Faculty of Medicine. Isfahan University of Medical Sciences. Isfahan, Iran (2017).

- 33. Comparing the efficiency of different procedures of isolating, expanding and activating of peripheral blood NK cells on their cytotoxicity against breast cancer cells. Thesis for the degree of Master of Sciences in Immunology. Faculty of Medicine. Isfahan University of Medical Sciences. Isfahan, Iran (2018).
- 34. Investigating the involvement of microRNA-92a in the pathogenesis of multiple sclerosis using Experimental Autoimmune Encephalomyelitis model. Thesis for the degree of PhD in Immunology. Faculty of Medicine. Isfahan University of Medical Sciences. Isfahan, Iran (2018).
- 35. Genetic and functional analysis of Th17 cells in patients with susceptibility to recurrent candidiasis. Thesis for the degree of PhD in Immunology. Faculty of Medicine. Isfahan University of Medical Sciences. Isfahan, Iran (2019).
- 36. Designing and constructing of a single-chain variable region (SCFV) antibody against IL2Rα (CD25). Thesis for the degree of Master of Sciences in Immunology. Faculty of Medicine. Isfahan University of Medical Sciences. Isfahan, Iran (2019).
- 37. Constructing of adipose derived stem cells over-expressing IFNβ and LIF. Thesis for the degree of Master of Sciences in Immunology. Faculty of Medicine. Isfahan University of Medical Sciences. Isfahan, Iran (2019).
- 38. Constructing of adipose derived stem cells over-expressing IL-13 and IL-11. Thesis for the degree of Master of Sciences in Immunology. Faculty of Medicine. Isfahan University of Medical Sciences. Isfahan, Iran (2019).
- 39. Preparation and evaluation of the therapeutic vaccine containing leishmania major antigen (SLA) with TLR agonists in nanoparticle formulation in Balb/c mice. Thesis for the degree of PhD in Immunology. Faculty of Medicine. Isfahan University of Medical Sciences. Isfahan, Iran (2020). Asal Katebi.
- 40. Assessment of The Impact of Tim-3/Galectin-9 Interaction on Markers of Glucose and Lipid Metabolism in Acute Myeloid Leukemia (AML) Cell Lines. Thesis for the degree of Master of Sciences in Immunology. Faculty of Medicine. Isfahan University of Medical Sciences. Isfahan, Iran (2021, ...).
- 41. The Effect of PD-L1 Signalling Pathway on Fatty Acid Metabolism and Pentose Phosphate Pathway as Indicators of Survival and Proliferation of AML Cell lines. Thesis for the degree of Master of Sciences in Immunology. Faculty of Medicine. Isfahan University of Medical Sciences. Isfahan, Iran (2021, ...).
- 42. Evaluation of the impact of donor Killer Immunoglobulin Receptor (KIR) genotype and Acute myeloid leukemia (AML) patient's HLA alleles on the outcome of haploidentical Hematopoietic stem-cell transplantation (HSCT). Thesis for the degree of PhD in Immunology. Faculty of Medicine. Isfahan University of Medical Sciences. Isfahan, Iran (2021, ...).

ADVISING

- 1. Comparison of Th17 cell infiltration in gingival lesions of chronic periodontitis with normal periodontal tissue using immunohistochemical method. Thesis for the degree of Doctor of periodontology. Faculty of Dentistry. Isfahan University of Medical Sciences. Isfahan, Iran (2010).
- 2. Comparison of Th17 and Th2 characteristic gene expression in gingival lesions with bacterial infection. Thesis for the degree of Doctor of periodontology. Faculty of Dentistry. Isfahan University of Medical Sciences. Isfahan, Iran (2010).
- 3. Evaluation of the effect of HSP-70 & -90 gene silencing with siRNA on Nrf2 pathway in dopaminergic neuron like differentiated cells. Thesis for the degree of PhD in molecular Medicine. Faculty of Medicine. University of Medical Sciences. Isfahan, Iran (2014).
- 4. of serum OPG levels in postmenopausal women with osteoporosis and with arthrosclerosis. Thesis for the degree of Master of Sciences in Anatomical Sciences. Faculty of Medicine. Isfahan University of Medical Sciences. Isfahan, Iran (2014).
- 5. Evaluation of TNF-α-Induced Apoptosis in T Lymphocytes of Patients with □ Thalassemia Major. Thesis for the degree of PhD in Immunology. Faculty of Medicine. Isfahan University of Medical Sciences. Isfahan, Iran (2014).
- 6. Analysis of mir-141 and mir-200a expression in peripheral blood cells of patients with relapsing-remitting multiple sclerosis (RR-MS) in Isfahan province. Thesis for the degree of Master of Sciences in Molecular Biology. Faculty of Sciences. University of Isfahan. Isfahan, Iran (2014).
- 7. Analysis of mir-497 and mir-15a expression in peripheral blood cells of patients with relapsing-remitting multiple sclerosis (RR-MS) in Isfahan province. Thesis for the degree of Master of Sciences in Molecular Biology. Faculty of Sciences. University of Isfahan. Isfahan, Iran (2015). Aref Hoseini.
- Evaluation of miR-370 expression in breast tissue of patients with breast canser. Thesis for the degree of Master of Sciences in Immunology. Faculty of Medicine. Isfahan University of Medical Sciences. Isfahan, Iran (2015).
- 9. Investigation of the effect of genistein on the expression of the tumor suppressor gene ER1 and apoptosis following hormone therapy in the hepato-cellular carcinoma cell line. Thesis for the degree of PhD in Anatomical Sciences. Faculty of Medicine. Isfahan University of Medical Sciences. Isfahan, Iran (2015). Fereidoon Kavusi.
- 10. Evaluation of the silencing effect of miR-498 on TIM-3 expression in AML cell lines. Thesis for the degree of Master of Sciences in Immunology. Faculty of Medicine. Isfahan University of Medical Sciences. Isfahan, Iran (2017). Yaser Moghaddam.
- 11. Assessment of Immunogenic responses, immunization with Apoptotic Blebs resulted from mouse

- macrophage infected with Toxoplasma gondii (RH strain) in BALB/c mice. Thesis for the degree of PhD in Parasitology. Faculty of Medicine. Isfahan University of Medical Sciences. Isfahan, Iran (2017).
- 12. Comparison of the efficacy of isolation, expansion and activation of natural killer cells (NK) cells on their cytotoxicity against acute myeloid leukemia (AML) cells. Thesis for the degree of Master of Sciences in Immunology. Faculty of Medicine. Isfahan University of Medical Sciences. Isfahan, Iran (2017).
- 13. Construction of IFNβ-ScFv fusion protein against collagen II. Thesis for the degree of Master of Sciences in Genetic Engineering. Faculty of Sciences. University of Isfahan. Isfahan, Iran (2018).
- 14. Construction of a chimeric antigen receptor (CAR) expressing natural killer (NK) cell against CD25. Thesis for the degree of PhD in Genetic Engineering. Faculty of Sciences. University of Isfahan, Iran (2020).
- 15. Identification, Production and 3-dimensional (3D) modeling of Major Allergen of Populus Tree Pollen and prediction of dominant B cell epitopes using Immunoinformatics tools. Thesis for the degree of PhD in Immunology. Faculty of Medicine. Isfahan University of Medical Sciences. Isfahan, Iran (2020).
- 16. Evaluation of the therapeutic potential of applying human Adipose Derived Stem cells derived exosomes for treating the EAE mice. Thesis for the degree of PhD in Immunology. Faculty of Medicine. Isfahan University of Medical Sciences. Isfahan, Iran (2020).
- 17. Study of applying Adipose Derived Stem cells before Partial Hepatectomy for investigation of their useful effects on liver regeneration. Thesis for the degree of PhD in Immunology. Faculty of Medicine. Isfahan University of Medical Sciences. Isfahan, Iran (2021).
- 18. Evaluation of the therapeutic potential of transplantation of human Adipose Derived Stem cells over-expressing LIF and IFNb for treating the EAE mice. Thesis for the degree of PhD in Histology. Faculty of Medicine. Ferdowsi University of Medical Sciences. Mashhad, Iran (2018, ...)

PATENTS AND INVENTIONS

- 1. Recombinant IFNβ-ScFv fusion protein against collagen II. Patent Number: 98966/July 2019 as A61L; A61F international level by Iran Patent Office.
- 2. Wound tighten band aids. Patent Number: 96962/Oct 2018 as A61L; A61F international level by Iran Patent Office.

GENES REGISTERED

1. Populus nigra profilin. Gene Bank: MN832852. 326 bp, linear mRNA, PLN: 29 Feb 2020.

SCIENTIFIC MEMBERSHIP

Guest Associate Editor in Hematologic Malignancies (2021):

Frontiers in Oncology (Impact Factor: 6.24)

Research Topic: Cellular and Molecular Mechanisms of Immune Checkpoint Blockers in Anti-Leukemia and Lymphoma Immune Therapy

WORKSHOPS:

- 1. ELISA (virtual workshop). International Congress of Isfahan Biomedical Sciences. Isfahan University of Medical Sciences, Isfahan, Iran (Oct 2020).
- 2. SDS-PAGE & Western Blotting. Isfahan University of Medical Sciences, Isfahan, Iran (Oct 2014).
- 3. An introduction to bioinformatics. Isfahan University of Medical Sciences, Isfahan, Iran (Jun 2014).
- 4. Gene silencing and designing siRNA. 12th International congress of immunology, Tehran, Iran (May 2014).
- 5. Gene silencing and designing siRNA. Isfahan University of Medical Sciences, Isfahan, Iran (Apr 2014).
- 6. Flowcytometry. Isfahan University of Medical Sciences, Isfahan, Iran (Oct 2013).
- 7. Bioinformatics and designing primer for PCR and Real Time PCR. Isfahan University of Medical Sciences, Isfahan, Iran (Jul 2013).
- 8. Bioinformatics and designing primer for PCR. Isfahan University of Medical Sciences, Isfahan, Iran (Jun 2013).

TRAINING AND CERTIFICATES

- 1. GMP certificate (2004, and 2005). Cinnagen Co. Tehran, Iran.
- 2. GMP certificate (2016). Pasteur Institute of Iran. Tehran, Iran.
- 3. Teaching methods certificate (2011). Isfahan University of Medical Sciences, Isfahan, Iran.

TECHNICAL SKILLS

- 1. Electrophoresis: Cellulose Acetate, Agarose, IEF, PAGE& SDS- PAGE
- 2. Immunoassays: Flow cytometery, ELISA & Immunoblotting
- 3. PCR, RT-PCR & Real Time PCR
- 4. Cell separation, culture, differentiation, transfection and Gene silencing

5. Protein purification and identification

COMPUTER AND TECHNOLOGY SKILLS

- Experience with Microsoft Office
- Experience with SPSS and PRISM.
- Experience with Adobe Photoshop
- Experience with Reference Manager and Endnote

LANGUAGES

Persian: Native English: Fluent

PRESENTATIONS/ABSTRACTS

- 1. Immunochemical Characterization of Populus nigra Pollen Allergens. 15th International Congress of Immunology & Allergy, Ahvaz, Iran. Published in Abstract book, p77. Jan 2021.
- Molecular Cloning, Expression and IgE Binding Reactivity of Pop n 2: A New Allergen of Populus nigra Pollen. 15th International Congress of Immunology & Allergy, Ahvaz, Iran. Published in Abstract book, p79. Jan 2021.
- Optimization of In Vitro Expansion and Activation of Human Natural Killer Cells against Breast Cancer Cell Line. 15th International Congress of Immunology & Allergy, Ahvaz, Iran. Published in Abstract book, p262. Jan 2021.
- Increased expression of B lymphocyte induced maturation protein 1 (BLIMP1) in patients with common variable immunodeficiency (CVID). 15th International Congress of Immunology & Allergy, Ahvaz, Iran. Published in Abstract book, p374. Jan 2021.
- Common Variable Immunodeficiency (CVID) and Autoimmunity. 15th International Congress of Immunology & Allergy, Ahvaz, Iran. Published in Abstract book, p378. Jan 2021.
- Design and optimization of a chimeric single-chain fragment variable (scFv) antibody against IL2Rα (CD25). 15th International Congress of Immunology & Allergy, Ahvaz, Iran. Published in Abstract book, p587. Jan 2021.
- Impact of IFN-β and LIF overexpression in human adipose-derived stem cells (hADSCs)
 properties. 15th International Congress of Immunology & Allergy, Ahvaz, Iran. Published in
 Abstract book, p623. Jan 2021.

- 8. Mesenchymal Stem Cell-Derived Exosomes: A cell-free therapy in different inflammatory diseases. 15th International Congress of Immunology & Allergy, Ahvaz, Iran. Published in Abstract book, p631. Jan 2021.
- Silencing of Tim-3 expression by miR-326 affects apoptosis and proliferation of human HL-60 leukemia cell line. 14th International Congress of Immunology & Allergy, Tehran, Iran. Published in Iranian Journal of Allergy, Asthma & Immunology, Supplement, May 2018.
- 10. Preparation and characterization of a novel nanobody against T-cell immunoglobulin and mucin-3 (TIM-3). 14th International Congress of Immunology & Allergy, Tehran, Iran. Published in Iranian Journal of Allergy, Asthma & Immunology, Supplement, May 2018.
- 11. Negative regulation of Semaphorin 3A expression in peripheral blood ononuclear cells using microRNA-497-5p. 14th International Congress of Immunology & Allergy, Tehran, Iran. Published in Iranian Journal of Allergy, Asthma & Immunology, Supplement, May 2018.
- 12. Evaluation of the effect of TIM-3 suppression by miR-498 and its effect on apoptosis and proliferation rate of HL-60 cell line. 14th International Congress of Immunology & Allergy, Tehran, Iran. Published in Iranian Journal of Allergy, Asthma & Immunology, Supplement, May 2018.
- 13. Down regulation of neuroimmune Semaphorin 3A in peripheral blood mononuclear cells and its serum level of patients with multiple sclerosis. 14th International Congress of Immunology & Allergy, Tehran, Iran. Published in Iranian Journal of Allergy, Asthma & Immunology, Supplement, May 2018.
- 14. Molecular docking and molecular dynamic analysis of anti-CD25 chimeric antigen receptor, Beijing, China. Published in 7th ACTO meeting abstract book, Nov 2016.
- 15. Designing of peptide ELISA kit for Evaluation of anti VEGF IgG in mice model serum. 13th International Congress of Immunology & Allergy, Tabriz, Iran. Published in Iranian Journal of Allergy, Asthma & Immunology, Supplement, May 2016.
- 16. Presentation of infections and immune dysregulations in CVID patients and its relation to their clinical and immunological characteristics in Isfahan. ECID, Prague, Czech. Oct 2014. J Clin Immunol (2014) 34 (Suppl 2): S421.
- 17. Dendritic cell-based Immunotherapy. Vaccines and their applications. Re-instruction program. Oct 2014. Al-Zahra haspital, Isfahan, Iran.
- 18. Comparison of the frequency of R381Q functional variant of IL-23 receptor gene, in asthmatic patients and control group. 12th International Congress of Immunology & Allergy. 14th International Congress of Immunology & Allergy, Tehran Iran. Published in Iranian Journal of Allergy, Asthma & Immunology, Supplement, May 2014.
- 19. Evaluation of newly identified helper T cells specific cytokines expressions in the peripheral blood and sputum samples of patients with Asthma. 12th International Congress of

- Immunology & Allergy, Tehran Iran. Published in Iranian Journal of Allergy, Asthma & Immunology, Supplement, May 2014.
- 20. The +4259 G>T of TIM-3 polymorphism is associated with asthma susceptibility in the Isfahan population. 12th International Congress of Immunology & Allergy, Tehran Iran. Published in Iranian Journal of Allergy, Asthma & Immunology, Supplement, May 2014.
- 21. Polymorphism-574 G>Tin TIM-3 is not associated with asthma in the Isfahan population. 12th International Congress of Immunology & Allergy, Tehran Iran. Published in Iranian Journal of Allergy, Asthma & Immunology, Supplement, May 2014.
- 22. Effect of Licorice protein fractions on growth of gastrointestinal cancer cell lines. 12th International Congress of Immunology & Allergy, Tehran Iran. Published in Iranian Journal of Allergy, Asthma & Immunology, Supplement, May 2014.
- 23. A comparison of the effects of silymarin and rapamycin on the generation of regulatory T cells from naïve CD4+ T cells in vitro. 12th International Congress of Immunology & Allergy, Tehran Iran.Published in Iranian Journal of Allergy, Asthma & Immunology, Supplement, May 2014.
- 24. Association analysis of TIM-3 -1541C>T polymorphism with multiple sclerosis in Isfahan population. 12th International Congress of Immunology & Allergy, Tehran Iran. Published in Iranian Journal of Allergy, Asthma & Immunology, Supplement, May 2014.
- 25. Association analysis of TIM1 -416G>C polymorphism with asthma in Chaharmahal va Bakhtiari, Iran. 12th International Congress of Immunology & Allergy, Tehran Iran. Published in Iranian Journal of Allergy, Asthma & Immunology, Supplement, May 2014.
- 26. Association analysis of TIM-1 5383_5397 insertion/deletion polymorphism with asthma and total serum Immunoglobulin E levels Chaharmahal va Bakhtiari, Iran. 12th International Congress of Immunology & Allergy, Tehran Iran. Published in Iranian Journal of Allergy, Asthma & Immunology, Supplement, May 2014.
- 27. Establishment of a recombinant HEK cell line over expressing TIM-3 protein. 12th International Congress of Immunology & Allergy, Tehran Iran. Published in Iranian Journal of Allergy, Asthma & Immunology, Supplement, May 2014.
- 28. Evaluation of VEGF peptide-based vaccine on inhibition of proliferation in tumor cell lines. 12th International Congress of Immunology & Allergy, Tehran Iran. Published in Iranian Journal of Allergy, Asthma & Immunology, Supplement, May 2014.
- 29. The role of Mir-199a in Multiple Sclerosis according to Bioinformatical prediction. 12th International Congress of Immunology & Allergy, Tehran Iran. Published in Iranian Journal of Allergy, Asthma & Immunology, Supplement, May 2014.
- 30. Optimization of human Th17 cell differentiation in vitro: evaluating different polarizing factors.5th Congress of Laboratory & clinic. Jan 2013, Tehran Iran.

- 31. Comparison of expression of Th17 cell's characteristic genes and ILC count in CVID patients with normal controls. 2nd International Congress of Immunology, Asthma& Allergy. Feb 2013, Tehran Iran.
- 32. Signs of the presence of Th17 cells in chronic periodontal disease. 11th International Congress of Immunology & Allergy. May 2012, Tehran Iran.
- 33. Designing and evaluating highly efficient siRNAs for silencing RORC2 in human Th17 cells.

 11th International Congress of Immunology & Allergy. May 2012, Tehran Iran.
- 34. Designing and evaluating highly efficient siRNAs for silencing RORC2 in human Th17 cells. 4th Congress of Laboratory & clinic. Dec 2011, Tehran Iran.
- 35. Efficient generation of human Th17 cells from naïve helper T cells. 10th International Congress of Immunology & Allergy, May 2010, Tehran Iran.
- 36. Frequency of HLA-B27 subtypes in Iranian patients with Ankylosing Spondylitis using of PCR-SSP method.1st Iranian Congress of Laboratory and Internal Medicine. Dec 11-14,2007, Tehran, Iran. Published in Abstract Book of Laboratory and Internal Medicine, winter 2007, p81.
- 37. Evaluation of electrophoretic changes in serum proteins and presence of paraproteins in serum samples of 257 Iranian normal individuals aged over 70. 12th International Congress of Immunology & the 4th Annual Meeting of FOCIS. July 18-23, 2004, Montreal, Canada. Published as a supplement in Clinical Investigative Medicine.
- 38. Evaluation of electrophoretic changes in serum proteins and presence of paraproteins in serum samples of 257 Iranian normal individuals aged over 70. 7th Iranian Congress of Immunology and Allergy. May 2004, Mashad, Iran. Published in Iranian Journal of Immunology, Supplement, spring 2004, p282.
- 39. Comparison of validity of microlymphocytotoxicity and flow cytometry methods with PCR for HLA-B27 antigen typing. 6th Iranian Congress of Immunology and Allergy, Tehran, Iran. Published in Iranian Journal of Allergy, Asthma & Immunology, Supplement, May 2002, p56.
- 40. Association between Ankylosing spondylitis and HLA-B27 antigen in Iran. 6th Iranian Congress of Immunology and Allergy, Tehran, Iran. Published in Iranian Journal of Allergy, Asthma & Immunology, Supplement, May 2002, p24.
- 41. Comparison of validity of microlymphocytotoxicity and flow cytometry methods with PCR for HLA-B27 antigen typing. 13th International Congress of Histocompatibility & Immungenetics, Seattle Convention Center, Seattle, Washington, U.S.A. May 18-22, 2002. Published in Tissue Antigen, volume 59, supplement 2002, p89.
- 42. Association between Ankylosing spondylitis and HLA-B27 antigen in Iran. 13th International Congress of Histocompatibility & Immungenetics, SeattleConvention Center, Seattle,

Washington, U.S.A. May 18-22, 2002. Published in Tissue Antigen, volume 59, supplement 2002, p73.

PUBLICATIONS:

BOOKS:

- 1. "Textbook of immunology by intimate words". Jamee Negar pub. 2019.
- 2. "Immunochemistry: a basic and practical guidebook". Jamee Negar pub. 2015.
- 3. "Experimental methods in immunology". Jamee Negar pub. 2014.
- 4. Translation of "cellular and molecular immunology". Abul k. Abbas, et al. 7th edition. Hayyan pub. 2012.
- 5. "An overview on organization and function of immune system". Arad ketab pub. 2010
- 6. "a summary of cellular and molecular immunology". Hayyan pub. 2008
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