

## Curriculum vitae

### Academic Positions

Research assistant 2007-2010

Associate professor 2015-Present

Department of Immunology, School of Medicine, Isfahan University  
of Medical Sciences, Isfahan, Iran

### Education

Ph.D. (Immunology) 2010-2014

Isfahan University of Medical Sciences, Isfahan, Iran

Assistant researcher in New York Medical School, Environmental Medicine  
Department (2013)

M. Sc. (Immunology)

Mashhad University of Medical Sciences, Mashhad, Iran

B.Sc. (Science of Laboratory)

Shahid Beheshti University, Tehran, Iran

### **HONORS AND AWARDS**

Honored PhD student, Dec **2012** (Shahid Motahari Festival)  
Isfahan University of Medical Sciences, Isfahan, Iran.

Honored PhD student researcher in medical school, Dec **2012**  
Isfahan University of Medical Sciences, Isfahan, Iran.

## **Books**

Allergy and Immune system.2015

Air pollution and Health.2015

Multiple Sclerosis.2017

## **PUBLICATIONS/ABSTRACTS**

- 1) Afshar-Ghasemlou S, **Esmaeil N**, Sherkat R, Yazdani R, Abbasi-Rad F, Ganjalikhani-Hakemi M, Rezaei A. Increased IRF4 expression in isolated B cells from common variable immunodeficiency (CVID) patients. Allergology Immunopathology.2018
- 2) Fereshteh Navabi, Vahid Shaygannejad, Faezeh Abbasirad, Elaheh Vaez, Fahimeh Hosseinasab, Mohammad Kazemi, Omid Mirmosayyeb, Fereshteh Alsahebhosoul F, **Nafiseh Esmaeil \***. Immunoregulatory Effects of Silymarin on Proliferation and Activation of Th1 Cells Isolated from Newly Diagnosed and IFN- $\beta$ 1b-Treated MS Patients. Inflammation. 2018
- 3) Shervin Badihian, Vahid Shaygannejad, Parisa Soleimani, Omid Mirmosayyeb, Zahra Samee, Navid Manouchehri and **Nafiseh Esmaeil\***. Decreased serum levels of interleukin-35 among multiple sclerosis patients maybe related to disease progression. Journal of biological regulators & homeostatic agents.2018
- 4) Lower extremity deep venous thrombosis in a multiple sclerosis patient on dimethyl fumarate. Omid Mirmosayyeb, Emad Fayyazi, Vahid Shaygannejad, **Nafiseh Esmaeil**. Multiple sclerosis and related disorders.2018
- 5) Momen T, **Esmaeil N**, Reisi M. Seroprevalence of Toxocara Canis in Asthmatic Children and its Relation to the Severity of Diseases - a Case-Control Study. Medical Archives.2018

- 6) Mirmosayyeb O, Badihian S, Manouchehri N, Basiri AK, Barzegar M, Esmaeil N, Fayyazi E, Shaygannejad V. The interplay of multiple sclerosis and menstrual cycle: Which one affects the other one? Multiple sclerosis and related disorders.2018
- 7) Behrouz Robat-Jazi, Mina Hosseini, Vahid Shaygannejad, Shahriar Nafissi, Abbas Rezaei, Marjan Mansourain, Omid Mirmosayyeb and, Nafiseh Esmaeil\*. High frequency of Tc22 and Th22 cells in myasthenia gravis patients and their significant reduction after thymectomy. Neuroimmunomodulation.2018
- 8) Ashtari F, Esmaeil N\*, Mansourian M, Poursafa P, Mirmosayyeb O, Barzegar M, Pourgheisari H. An 8-year study of people with multiple sclerosis in Isfahan, Iran: Association between environmental air pollutants and severity of disease. Journal of Neuroimmunology. 2018
- 9) Mina HosseiniBehrouz Robat-Jazi, Vahid Shaygannejad, Shahriar Nafissi, Omid Mirmosayyeb, Abbas Rezaei and Marjan Mansourain and , Nafiseh Esmaeil\*.Increased proportion of Tc17 and Th17 cells and their significant reduction after thymectomy may be related to disease progression in Myasthenia Gravis.. Neuroimmunomodulation.2018
- 10) Masjedi M, Esmaeil N, Saffaei A, Abtahi-Naeini B, Pourazizi M, Haghjooy Javanmard S, Asilian A.Cytokine Indexes in Pemphigus Vulgaris: Perception of Its Immunopathogenesis and Hopes for Non-Steroidal Treatment. Iranian Journal of Pharmaceutical Research. 2017.
- 11) Motedayyen H, Esmaeil N, Tajik N, Khadem F, Ghotloo S, Khani B, Rezaei A. Method and key points for isolation of human amniotic epithelial cells with high yield, viability and purity. BMC research notes. 2017
- 12) Kouhpayeh S, Andalib A, Gharagozloo M, Sanei MH, Esmaeil N, Maracy MR. Evaluation of Urokinase Plasminogen Activator Receptor, Soluble Urokinase Plasminogen Activator Receptor, and  $\beta 1$  Integrin in Patients with Hodgkin's Lymphoma. Advanced biomedical research.2017
- 13) Esmaeil N\*, Anaraki SB, Gharagozloo M, Moayedi B. Silymarin impacts on immune system as an immunomodulator: One key for many locks. International Immunopharmacology. 2017
- 14) Toriki S, Soltani A, Shirzad H, Esmaeil N, Ghatrehsamani M. Synergistic antitumor effect of NVP-BEZ235 and CAPE on MDA-MB-231 breast cancer cells. Biomedicine & Pharmacotherapy. 2017
- 15) Khorvash F, Esmaeil N, Mirmosayyeb O, Eskandari N, Salimian H. Neuromyelitis optica in a pregnant woman with systemic lupus erythematosus: A case report. Iranian Journal of Neurology.2016
- 16) Faezeh Abbasirad , Mazdak Ganjalikhani-Hakemi , Nafiseh Esmaeil , Shokrollah Farrokhi , Roya Sherkat , Reza Yazdani , Sanaz Afshar-Ghasemlo. Assessment of the Expression Level of B-Cell Lymphoma 6 (BCL6) in Peripheral Blood CD38+ B

Lymphocytes in Patients with Common Variable Immunodeficiency (CVID). Journal of Isfahan Medical School. 2017

- 17) Sanaz Afshar-Qasemloo , Nafiseh Esmail\* , Mazdak Ganjalikhani-Hakemi , Abbas Rezaei , Reza Yazdani , Faezeh Abbasi-Rad. Comparison of B-Cells Differentiation to Plasmablasts at Presence of Anti-Human CD40 and Anti-Immunoglobulin M f (ab)'2 or Lipopolysaccharide and Anti-Human CD40 Stimulators (In-Vitro). Journal of Isfahan Medical School. 2017
- 18) Alsahebfosoul F, Zavaran-Hosseini A, Salehi R, Etemadifar M, Esmail N, Jamshidian Evaluation of Soluble Human Leukocyte Antigen-G (sHLA-G) Isoforms and Regulatory T Cells in Relapsing-Remitting Multiple Sclerosis Iran. Journal of Allergy, Asthma and Immunology. 2015
- 19) Roya Sherkat, Mohammad Ali-Hassanzadeh, Nahid Eskandari, Mazdak G Hakemi, Nafiseh Esmail and Nahid Rezaei Clinical Features of Immunological Dysregulation in Common Variable Immunodeficiency in Iran. 2015
- 20) Sung-Hyun Park, Wen-Chi Chen, Nafiseh Esmail, Benjamin Lucas, Leigh Marsh, Joan Reibman, and Gabriele Grunig. IL-31 and IL-31A Induced Pulmonary-Hypertension Phenotype Due to Inhalation of Antigen and Fine Particles from Air Pollution. Pulmonary Circulation. 2014
- 21) Sima Balouchi, Marjan Gharagozloo, Nafiseh Esmail, Milad Mirmoghtadaei, and Behjat Moayedi. Serum levels of TGF $\beta$ , IL-31, IL-31, and IL-41 cytokines in  $\beta$ -thalassemia major patients: the impact of silymarin therapy. Immunopharmacology Immunotoxicology. 2014
- 22) Gabriele Grunig, Leigh Marsh, Nafiseh Esmail, Katelin Jackson, Terry Gordon, Joan Reibman, Grazyna Kwapiszewska, Sung-Hyun Park. Perspective. Ambient air pollution: inflammatory response and effects on the lung's vasculature. Pulmonary Circulation. 2014
- 23) Doudi M, Setorki M, Nafiseh Esmail, Mozghan Toodoei And Tannaz Zabihi. Effect of Fe<sub>2</sub>O<sub>3</sub>/ZnO nanoparticle on inflammatory cytokines: il2 and tnf male wistar rat. 2014
- 24) Nafiseh Esmail, Marjan Gharagozloo, Abbas Rezaei ,Gabriele Grunig. Dust events, pulmonary diseases and immune system. American journal of clinical and experimental immunology.2014
- 25) Marjan Gharagozloo, Shirin Jafari , Nafiseh Esmail , Elahe N. Javid, Bahram Bagherpour and Abbas Rezaei , Immunosuppressive Effect of Silymarin on Mitogen-Activated Protein Kinase Signalling Pathway: the Impact on T Cell Proliferation and Cytokine Production. Basic Clinical and Pharmacological Toxicology. 2013
- 26) Nafiseh Esmail, Behjat Moayedi, Mohamad Reza Maracy, Marjan Gharagozloo. Elevated Serum Levels of Cell Death Circulating Biomarkers, M21 and M52, in Patients with  $\beta$ Thalassemia Major. Hemoglobin. 2013
- 27) Setorki M, Rafieian-Kopaei M, Merikhi A, Heidarian E, Shahinfard N, Ansari R, Nasri H, Esmail N, Baradaran A, Suppressive Impact of Anethum Graveolens Consumption on

- Biochemical Risk Factors of Atherosclerosis in Hypercholesterolemic Rabbits. 2013
- 28) Mohmmad Mardani, Batool Hashemibeni, Malek Masoud Ansar, Sayeed Hamid Zarkesh Esfahani, Mohmmad Kazemi, Vahid Goharian, Nafiseh Esmaeili, Ebrahim Esfandiary Comparison between Chondrogenic Markers of Differentiated Chondrocytes from Adipose Derived Stem Cells and Articular Chondrocytes *In Vitro*. 2013
- 29) Behjat Moayedi, Marjan Gharagozloo, Nafiseh Esmaeil, Mohammad Reza Maracy, Hamid Hoorfar, Mohsen Jalaeikar. A randomized double-blind, placebo-controlled study of therapeutic effects of silymarin in  $\beta$ -thalassemia major patients. *European Journal of haematology*. 2012
- 30) M.Khazaei, M.Zarei, N.Esmaeil. Serum Asymmetric Dimethylarginine concentrations in Two Models of Experimentally Induced Hypertension. *ISRN Hypertension*. (2012)
- 31) M.nikbakhtDastjerdi, M.R.Salahshoor, M.Mardani, M.Rabbani, B.Hashemibeni, M.Gharagozloo. M.Kazemi, N.Esmaeil, Sh.Roshankhah, R.Golmohammadi and M.Mobarakian The apoptotic effects of sirtuin0 inhibitor on the MCF-2 and MRC-2 cell lines. *Research in Pharmaceutical Sciences*. 2012
- 32) Mahin Hashemipour, Shima Salehi Abari, Neda Mostofizadeh, Shaghayegh Haghjooy-Javanmard, Nafiseh Esmaeil, Silva Hovsepian, Amini Masoud, Roya Kelishadi, Akbar Hasanzadeh, and Mehrdad Mirouliaei. The Role of Maternal Thyroid Stimulating Hormone Receptor Blocking Antibodies in the Etiology of Congenital Hypothyroidism in Isfahan, Iran. 2012
- 33) Batool Hashemibeni, Farzaneh Jafary, Nafiseh Esmaeil, Vahid Goharian, Ghader Feizi, Fariba Heidary, Seyedeh Zahra Moosavi-nejad, Seyed Hamid Zarkesh. *International Journal of Preventive Medicine*. 2011
- 34) Alireza Andalib, Kamran Moghaddas, Farkhondeh Sharifi, Nafiseh Esmaeil, Seyed Javad Hasheminia, Mohammad Moazeni. IFN- $\gamma$ , IL-2 and IL-02 Concentration in Tumor Tissue, Adjacent Tumor Tissue and the Serums of Patients with Breast Cancer. *Journal of Isfahan Medical School*. 2011
- 35) Faeze Mohhamadi, Manizheh Narimani, Nafiseh Esmaeil, Hossein Yousefi, Abasali Eskandarian, Seyed Hossein Hejazi. Serum Monocyte Chemotactic Protein-0 and Nitric Oxide in Cutaneous Leishmaniasis Patients before and after Treatment with Glucantime. *Journal of Isfahan Medical School*. 2011

## TEACHING EXPERIENCE

2008-2012 (anticipated) Teaching Assistant, Basic and Advanced experimental immunology methods.

University of Isfahan, School of Medicine

Course Directors: Dr. Rezaei, Dr. Masjedi, Dr. Saheb fosoul and Dr.

Gharagozloo

2015- Present. Assistant professor. Teaching Clinical Immunology to Medical, Pharmacy, Dentistry, Medical Laboratory Sciences, Midwifery, Nursing students and postgraduate Immunology students.

### Presentations

1) Poster presentation 2010

00<sup>th</sup> International Congress of Immunology and Allergy, Tehran, Iran

2) Attendance 2012

07<sup>th</sup> International Congress of Immunology and Allergy, Tehran, Iran

3) Attendance 2013

The American Thoracic Society, Philadelphia, USA

4) Poster presentation 2014

00<sup>th</sup> International Congress of Immunology and Allergy, Tehran, Iran

5) Attendance 2015.

Impact of Environmental Factors on the Incidence of Non Communicable Diseases

6) Speaker 2015.

Diagnosis and treatment of allergic diseases. Isfahan Iran

7) Speaker 2015.

The Effect of Environmental Factors on Health. Isfahan Iran

8) Speaker 7002.

Non- acquired anemia. Isfahan Iran

9) Speaker 2016.

Autoimmune Diseases. Isfahan, Iran

10) Speaker 2016.

Roles of Th1 and Th17 cells in diseases. Isfahan. Iran

### Workshops

1) DNA vaccine. 2015

2) Gene cloning. 2015

3) Western Blotting. 2016

4) Ethics in Clinical Teaching. 2016

5) Preliminary research methods. 2016

6) Preliminary Teaching Method. 2016

7) Student Evaluation and question's design methods with an emphasis on NAJMA software. 2016

8) SPSS. 2016

### Research Projects: (ongoing)

1) In vitro assessment of silymarin effects on regulatory T cells isolated from MS patients. 2015.

Supervisor

2) In vitro assessment of silymarin effects on Th17 cells, isolated from MS patients. 2015.

Supervisor

3) Assessment of silymarin effects on Th1 cells, isolated from MS patients in vitro. 2015. Supervisor

- 4) Assessment of the effectiveness of omega 3 supplementation on serologic level of IL-12 and CRP in gas station`s employees in Isfahan city.2016

#### Technical skills

##### A -Genetic:

DNA and RNA extraction, Primer design, Bioinformatics searches at DNA databases, Basic statistical analysis of genetic data (including EH (Estimated Haplotype) program, STATA), DNA cloning, Real-Time PCR.

##### B-Immunology and Immunogenetics:

ELISA, Cell culture, SDS-page, EITB, Western blotting, HLA(Human Leukocyte Antigen)typing (by molecular and serology methods ) and Flowcytometry techniques.

##### C-Biochemistry: Electrophoresis and Spectrophotometer analysis.

D-Computer skills: I am proficient in the following programmes: Access and Excel databases, Word processing, Power point, graphic and presentation soft wares.

#### References:

1) Gabriele Grunig

Environmental Medicine Department, Medical School,  
New York University

Email: [Gabriele.Grunig@nyumc.org](mailto:Gabriele.Grunig@nyumc.org)

2) Marjan Gharagozloo

Laboratory of Neuroimmunology, Department of Pediatrics, Service of Immunology and Allergology,

University of Sherbrooke, Canada

Email : [marjan.gharagozloo@usherbrooke.ca](mailto:marjan.gharagozloo@usherbrooke.ca)

3)Sayed Hamid Zarkesh-Esfahani



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