

Personal information

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ACADEMIC RECORDS

Doctor of Philosophy (PhD): Medical Genetics

University of Social Welfare and Rehabilitation Science, Tehran, Iran.

Thesis title: Comparative Study on the Effects of IMOD and Curcumin in changing expression profile of Th1 family cytokines (IFN- γ , IL-6, IL-12 and TNF- α) against Th2 family cytokines (TGF- β , IL-4, IL-5 and IL-10) in C57BL/6 mouse models of Multiple Sclerosis.

Master of Science (MSc) in Molecular Genetics.

National Institute of Genetic Engineering and Biotechnology, Tehran, Iran

Thesis title: Production of recombinant lentiviral vectors carrying GPX-1 gene and transferring them to human cell line.

Bachelor of Science (BSc) in Molecular Genetics

Shaherkord University, Shahrekord, Iran

Current position

- Assistant Professor in Medical Genetics Dept, AJA University of Medical Science, Tehran, Iran.
- Invited Research Scientist in Individualized Medicine and Genometabolomics Research Center, Hope Generation Foundation, Tehran, Iran

SCIENTIFIC PUBLICATIONS

- 1- Mehrdad Nasrollahzadeh, Navid Nasrabadi, Zahra Jalili, Bahram Pakzad , Naeim Ehtesham, Saeideh Davar, Sima Jafarpour, Meysam Mosallaei, **Emran Esmailzadeh***. Association of Three functional polymorphisms in the NLRP3 gene with susceptibility to Rheumatoid Arthritis in Iranian population. Iranian journal of immunology, 2021 (Accepted).
- 2- Leila Saremi, Marziyeh Shafizadeh, **Emran Esmailzadeh**, Mohammad Ebrahim Ghaffari, Reza Amid, Mahdi Kadkhodazadeh , Assessment of IL-10, IL-1 β and TNF- α gene polymorphisms in patients with peri-implantitis and healthy controls, Molecular Biology Reports, 2021.
- 3- Naeim Ehtesham, Behrang Alani, Deniz Mortazavi, Sara Azhdari, Taiebe Kenarangi, **Emran Esmailzadeh**, Bahram Pakzad. Association of rs3135500 and rs3135499 Polymorphisms in the MicroRNA-binding Site of Nucleotide-binding Oligomerization Domain 2 (NOD2) Gene with Susceptibility to Rheumatoid Arthritis., Iranian Journal of Allergy, Asthma and Immunology, 2021.
- 4- Mehrdad Nasrollahzadeh, Sajjad Biglari, Hamidreza Khorram Khorshid, **Emran Esmailzadeh***. Shikonin ameliorates Experimental Autoimmune Encephalomyelitis (EAE) via Immuno-modulatory, anti-apoptotic, and anti-oxidative activity, Journal of Pharmacy and Pharmacology, 2020.
- 5- Mahdieh Hassani, Maryam Soleimani, **Emran Esmailzadeh**, Davood Zare-Abdollahi, Hamid Reza Khorram Khorshid. Healing Influence of *Melilotus Offcinalis* Herbal Extract on Experimental Autoimmune Encephalomyelitis in C57BL/6 Mice, Iranian Journal of Pharmaceutical Research, 2020.

- 6- Peyman Pourdavoud, Bahram Pakzad, Meysam Mosallaei, Zahra Saadatian, **Emran Esmaeilzadeh**, Asma Alimolaei, Alireza Shaygannejad. MiR-196: emerging of a new potential therapeutic target and biomarker in colorectal cancer. *Molecular biology reports*, 2020.
- 7- Mehrdad Nasrollahzadeh Sabet, Mohammad Khanalipour, Milad Gholami, Abdolazim Sarli, Arefeh Rahimikhorrani, **Emran Esmaeilzadeh***. Investigating the Presentation and Mortality Rate in Covid-19 Patients With Underlying Diseases, *Journal of Arak University of Medical Sciences*, 2020.
- 8- Mehrdad Nasrollahzadeh Sabet, Mohammad Foad Heidari, Mohammad Khanalipour, Saadat Allah Ghaffari, Milad Jafari Ashiani, Sajjad Biglari, **Emran Esmaeilzadeh***. Evaluation of the Conformity between Chest CT Scan Results with Molecular Diagnosis Test in Patients with COVID-19, *Journal of Arak University of Medical Sciences*, 2020.
- 9- Atousa Zirak, Seyed Behnamedin Jameie, Maryam Soleimani, Mohammad Amin Abdollahifar, **Emran Esmaeilzadeh**, Mohammad Hadi Farjoo, Mohsen Norouzian. Related Fluoxetine and Methylprednisolone changes of TNF- α and IL-6 expression in hypothyroidism rat model of spinal cord injury. *Cell Journal*, 2020.
- 10- **Emran Esmaeilzadeh**, Maryam Soleimani, Davood Zare-Abdollahi, Hamidreza Khorram Khorshid. Curcumin ameliorates Experimental Autoimmune Encephalomyelitis (EAE) in a C57BL/6 mouse model, *Drug Development Research*, 2019.
- 11- Leila Saremi, **Emran Esmaeilzadeh**, Tahereh Ghorashi, Mehdi Ekhlasmad Kermani, Mahdi Kadkhodazadeh. Association of Fc gamma-receptors IIa, IIIa, and IIIb gene polymorphisms with increased susceptibility to chronic periodontitis and Peri-Implantitis in an Iranian population, *Journal of cellular biochemistry*, 2019
- 12- Meysam Mosallaei, **Emran Esmaeilzadeh**, Hadi Bagheri, Maryam Miraghajani, Ahmad Reza Salehi, Rasoul Salehi. Single nucleotide polymorphism rs10889677 in miRNAs Let-7e and Let-7f binding site of

IL23R gene is a strong colorectal cancer determinant. Journal of Cancer Genetics. Cancer Genetics Volume 239, 2019.

- 13- Atieh Abedin Do, **Emran Esmailzadeh**, Mona Amin-Beidokhti, Reihaneh Pirjani, Milad Gholami, Reza Mirfakhraie. ACE gene rs4343 polymorphism elevates the risk of preeclampsia in pregnant women. Journal of human hypertension, 2018.
- 14- **Emran Esmailzadeh**, Mossa Gardaneh, Ehsan Gharib, Farzaneh Sabouni., Shikonin Protects Dopaminergic Cell Line PC12 Against 6-Hydroxydopamine-Mediated Neurotoxicity Via Both Glutathione-Dependent and Independent Pathways and by Inhibiting Apoptosis, Neurochemical research, 2013.
- 15- **Emran Esmailzadeh**, Mossa Gardaneh . Production of Carrying DJ-1 Gene Recombinant Lentiviruses and Their Transition to Human Cells. Journal of Cell and tissue, 4(4): 381-388
- 16- **Emran Esmailzadeh**, Mossa Gardaneh , Hamidreza Vaziri. The Concomitant Effect of Shikonin and Glutathione Peroxidase-1 on Enhanced Survival of Dopaminergic Neurons against Parkinsonian Toxicity. Journal of Cell and tissue, 2012; 3(2): 153-160.
- 17- Gardaneh M, Rahimi A, **Esmailzadeh E**. Inducible Gene Expression of GFP Reporter Gene in LMH Cell Line Using Inducible Lentivirus Vectors, Journal of Cell and tissue. 2015; 6(3): 241-248.
- 18- Ramin Hamidi Farahani, **Emran Esmailzadeh**, Amir Nezami Asl, Mohammad Foad Heidari, Ebrahim Hazrati. Frequency of HLA alleles in a group of 48 severe COVID-19 Iranian patients, Iranian journal of public health, 2021 (Accepted).

Awards & Honours

Ranked first the 4 years among Ph.D students, Medical Genetics, University of Social Welfare and Rehabilitation Science.

Skills and Expertise

1. Gene cloning related technics
2. Cell culture
3. Working with mouse models
4. Realtime PCR
5. Karyotyping (Banding, Light microscopic procedures, ...)
6. Lentiviruse and CRISPR mediated gene transfer
7. Computer skills(Word, Excel, ...)
8. Next Generation Sequencing (NGS) data analyzing