

Curriculum Vitae

Name: Amir Salek Farrokhi
Position: Assistant Professor
Sex: Male

Date of Birth: 29.December.1984

Nationality: Iranian

Marital Status: Single

Educational information:

1- B.Sc. (2003-2008) - Medical Laboratory Technology (Tabriz University of Medical Sciences, Faculty of Paramedicine, Tabriz, Iran).

2- M.Sc. (2008-2011) - Immunology (Tarbiat Modares University, Faculty of Medical Sciences, Department of Immunology, Tehran, Iran). MSc graduation score: (17.37 out of 20), MSc Thesis score: (18.75 out of 20).

M.Sc Thesis title: The study of class switch recombination(CSR) process in B lymphocytes from patients with common variable immunodeficiency(CVID).

3- Ph.D. (2012-2018) - Immunology (Tarbiat Modares University, Faculty of Medical Sciences, Department of Immunology, Tehran, Iran). Ph.D graduation score: (17.87 out of 20), Ph.D Thesis score: (19.41 out of 20).

Ph.D Thesis title: The study of immunological factors involved in reducing abortion in the abortion prone mouse model following adipose tissue mesenchymal stem cell therapy.

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Professional Experience:

2018, Jun- 2022, July: Dept. of Immunology, Faculty of Medical Sciences, Semnan University of Medical Sciences, Semnan, Iran.

Present Work Address:

2022, August- onwards: Immunology Dept., Pasteur Institute of Iran, Tehran, Iran. P.O.Box: 1316943551.

Publications:**a) Papers**

1. **Amir Salek Farrokhi**, Asghar Aghamohammadi , Shabnam Pourhamdi , Payam Mohammadinejad , Hassan Abolhassani , Seyed Mohammad Moazzeni. **Evaluation of class switch recombination in B lymphocytes of patients with common variable immunodeficiency**, Journal of Immunological Methods, 2013;394(1-2):94-9
2. **Amir Salek Farrokhi**; Asghar Aghamohammadi; Shabnam Pourhamdi, Payam Mohammadinejad, Bamdad Sadeghi, Seyed-Mohammad Moazzeni, Hassan Abolhassani. **Expression of Activation-Induced Cytidine Deaminase Gene in B Lymphocytes of Patients with Common Variable Immunodeficiency**, Iranian Journal of Pediatrics, 2013, 23 (4); 451-457.
3. Maryam skandaryan, **Amir salek farrokhi**. **The effect of pregnancy on the immune cell distribution in the tissues of the uterus and spleen of pregnant NMARI mouse**. Razi Journal of Medical Sciences. 2013; 20 (107) :52-62.
4. Alireza Nourizadeh, Majid Eslami, **Amir Salek Farrokhi**, Soghra Fallahi. **Detection of CTX-M β lactamase in *Escherichia coli* using Disk diffusion, combined disk, MIC and Multiplex PCR methods**, Life Science Journal 2013;10 (12s),
5. Majid Eslami, Alireza Nourizadeh, **Amir Salek Farrokhi**, Soghra Fallahi. **Detection of Amp-C type Producing *Escherichia coli* using the Clavulanic acid and Boronic Acid Inhibitor and Multiplex PCR method**, Life Science Journal 2013;10 (12s),
6. Maryam Azimi, Saeed Aslani, Sahar Mortezagholi, **Amir Salek Farrokhi**, Mohammad Reza Javan, Alireza Rezaieanesh, Mojgan Ghaedi, Mehrdad Gholamzad & Eisa Salehi. **Identification, Isolation, and Functional Assay of Regulatory T Cells**, Immunological Investigation, 2016; 45(7); 584-602.
7. Bizhan Sadighi Moghaddam, **Amir Salek Farrokhi**, Hassan Namdar Ahmadabad, Mehdi Barati, Seyed Mohammad Moazzeni. **Mesenchymal Stem Cell Therapy Prevents Abortion In CBA/J \times DBA/2 Mating**, Reproductive Sciences. In press. 2017. DOI: 10.1177/1933719117737848.
8. **Amir Salek Farrokhi**, Amir-Hassan Zarnani, Seyed Mohammad Moazzeni. **Mesenchymal stem cells therapy protects fetuses from resorption and induces Th2 type cytokines profile in abortion prone mouse model**, Transplant Immunology, 2018;47:26-31.
9. Bahman Yousefi, Majid Eslami, Abdolmajid Ghasemian, Parviz Kokhaei, **Amir Salek Farrokhi**, Narges Darabi, **Probiotics importance and their immunomodulatory properties**, Journal of cellular physiology, 2018/10/14, <https://doi.org/10.1002/jcp.27559>.

10. Vida Hashemi, **Amir Salek Farrokhi**, Asghar Tanomand, Zohreh Babaloo, Mohammad Hojjat-Farsangi, Enayat Anvari, Mohammad-Taher Tahoori, Rana Ezzeddini, Arezoo Hosseini, Tohid Gharibi, Ghasem Ghalamfarsa, Farhad Jadidi-Niaragh, **Polymorphism of Foxp3 gene affects the frequency of regulatory T cells and disease activity in patients with rheumatoid arthritis in Iranian population**, Immunology letters, 2018 Dec;204:16-22. doi: 10.1016/j.imlet.2018.10.001.
11. Hadi Askarifirouzjaei, Leila Khajoueinejad, **Amir Salek Farrokhi**, Mohammad-Taher Tahoori, Mehdi Fazeli, Taki Tiraihi, Ali Akbar Pourfatholla, **Implications of Immunotherapy with High-dose Glatiramer acetate in Acute Phase of Spinal Cord Injury in Rats**, Immunopharmacology and Immunotoxicology, 2019/1/2.
12. **Amir Farrokhi Salek**, N Darabi, B Yousefi, RH Askandar, M Shariati, M Eslami, Is it true that gut microbiota is considered as panacea in cancer therapy?, Journal of cellular physiology, 20 February 2019 <https://doi.org/10.1002/jcp.28333>.
13. Bahman Yousefi, Maryam Mohammadlou, Maryam Abdollahi, **Amir Salek Farrokhi**, Mohsen Karbalaeei, Masoud Keikha, Parviz Kokhaei, Saeid Valizadeh, Alireza Rezaeiemanesh, Vahid Arabkari, Majid Eslami, **Epigenetic changes in gastric cancer induction by Helicobacter pylori**, Journal of cellular physiology, <https://doi.org/10.1002/jcp.28925>.
14. Khodayar Ghorban, Rana Ezzeddini, Majid Eslami, Bahman Yousefi, Bizhan Sadighi Moghaddam, Mohammad-Taher Tahoori, Maryam Dadmanesh, **Amir Salek Farrokhi**, **PTPN22 1858 C/T polymorphism is associated with alteration of cytokine profiles as a potential pathogenic mechanism in rheumatoid arthritis**, Immunology letters, <https://doi.org/10.1016/j.imlet.2019.10.010>.
15. **Salek Farrokhi A**, Mohammadlou M, Abdollahi M, Eslami M, Yousefi B, **Histone Deacetylase Modifications by Probiotics in Colorectal Cancer**, Journal of Gastrointestinal Cancer, DOI: 10.1007/s12029-019-00338-2.
16. Rana Ezzeddini, Mohammad Hossein Somi, Mohammad Taghikhani, Seyyed-Yaghoob Moaddab, Kouros Masnadi Shirazi, Masoud Shirmohammadi, Amir Taher Eftekharsadat, Bizhan Sadighi Moghaddam, **Amir Salek Farrokhi**, **Association of Foxp3 rs3761548 polymorphism with cytokines concentration in gastric adenocarcinoma patients**, Cytokine, <https://doi.org/10.1016/j.cyto.2020.155351>.
17. **Amir Salek Farrokhi**, Amir-Hassan Zarnani, Seyed Mohammad Moazzeni, **Mesenchymal stem cells induce expansion of regulatory T cells in abortion-prone mice**, Reproduction, <https://doi.org/10.1530/REP-20-0320>.

18. Rana Ezzeddini, Mohammad Taghikhani, **Amir Salek Farrokhi**, Mohammad Hossein Somi, Nasser Samadi, Ali Esfahani, Mohammad Javad Rasaei, **Downregulation of fatty acid oxidation by involvement of HIF-1 and PPAR in human gastric adenocarcinoma and related clinical significance**, Journal of Physiology and Biochemistry, <https://doi.org/10.1007/s13105-021-00791-3>.
19. Maral Jafari, Mohammad Sadegh Nourbakhsh, Amir Salati, **Amir Salek Farrokhi**, **Synthesis and Characterization of Paramomycin-loaded CoFe₂O₄/Polyethylene Glycol–Poly (Lactic-co-glycolic Acid) Core-Shell Spheres for Treatment of Cutaneous Leishmaniasis**, Journal of Macromolecular Science, Part B, <https://doi.org/10.1080/00222348.2022.2045771>.
20. Rajesh Sharma, Mohsen Abbasi-Kangevari, Rami Abd-Rabu, Hassan Abidi, Eman Abu-Gharbieh, Juan Manuel Acuna, Sangeet Adhikari, Shailesh M Advani, Muhammad Sohail Afzal, Mohamad Aghaie Meybodi, Bright Opoku Ahinkorah, **Amir Salek Farrokhi**, **Global, regional, and national burden of colorectal cancer and its risk factors, 1990–2019: a systematic analysis for the Global Burden of Disease Study 2019**, The Lancet. Gastroenterology & hepatology, doi: 10.1016/S2468-1253(22)00044-9.

B) Presentation in Congresses

1. **Amir Salek Farrokhi**, A Aghamohammadi, SM Moazzeni, **The study of class switch recombination (CSR) in b lymphocytes from patients with common variable immunodeficient**, 11th international congress of immunology and allergy. 2011, Iran.
2. A Aghamohammadi, **A Salek Farrokhi**, P Mohammadinejad, S Pourhamedi, B Sadeghi, SM Moazzeni. **Normal expression of activation-induced cytidine deaminase (AID) gene in b lymphocytes of patients with common variable immunodeficiency**, Journal of clinical immunology. 2012.
3. A Aghamohammadi, **A Salek Farrokhi**, P Mohammadinejad, S Pourhamedi, B Sadeghi, SM Moazzeni. **Evaluation of class switching recombination in b lymphocytes of patients with common variable immunodeficiency**, Journal of clinical immunology. 2012.
4. **A Salek Farrokhi**, A Aghamohammadi, SM Moazzeni. **The study of IgE production in b lymphocytes from common variable immunodeficient patients**. 8th Allergy and asthma congress, Iran.
5. Rana Ezzeddini, **Amir Salek Farrokhi**, Jamal Karamravan. **Role of phospholipase-A2 in pediatric patients with tonsillar hyperplasia and chronic tonsillitis**. First international congress of bacteriology-Iran.

6. Rana Ezzeddini, **Amir Salek Farrokhi**, Jamal Karamravan. **The occurrence of palatine tonsil hypertrophy in pediatric population with allergic diseases**, In the 11th international congress of immunology and allergy. Iran.
7. **Amir Salek Farrokhi**, Amirhassan Zarnani, Seyed Mohammad Moazzeni. **MSC administration induces CD4+CD25+FoxP3+ regulatory T cells and reduces fetal rejection in the abortion prone mouse model**, International congress of immunology and allergy of Iran (2016),
8. **Salek Farrokhi.A**, Ghorban.K, Tahoori. MT, Dadmanesh. M, Hashemi.V. **Evaluation of the protein tyrosine phosphatase non-receptortype 22 Gene Polymorphism in Iranian Patients with Rheumatoid Arthritis**, International congress of immunology and allergy of Iran (2016),
9. Hashemi.V, **Salek Farrokhi.A**, Tahoori.M. **Association of interleukin 4 receptor Gene Polymorphism with rheumatoid arthritis in Iranian patients**, International congress of immunology and allergy of Iran (2016).
10. **Amir Salek Farrokhi**, Bizhan Sadighi Moghaddam, Seyed Mohammad Moazzeni. **Cell Therapy by Mesenchymal Stem Cell Prevents Abortion in Abortion Prone Mouse Model**. 17th World Congress of The Academy of Human Reproductive. 2017. Italy.
11. **Amir Salek Farrokhi**, Amirhassan Zarnani, Seyed Mohammad Moazzeni. **MSC administration improves murine pregnancy outcome in abortion-prone mouse model with involvement of CD80/86 and CD28/CTLA-4**. 7th Yazd International Congress and Student Award in Reproductive Medicine. 2017
12. **Amir Salek Farrokhi**, Amirhassan Zarnani, Seyed Mohammad Moazzeni. **MSC administration induces a privileged tolerant microenvironment at the fetal maternal interface in the abortion prone mouse model**. 7th Yazd International Congress and Student Award in Reproductive Medicine. 2017
13. Rana Ezzeddini, Mohammad Taghikhani, Mohammad Hossein Somi and **Amir Salek Farrokhi**. **High expression of HIF1 is a predictor in patients with gastric adenocarcinoma**. 13th European pathology congress, 2017, Milan, Italy.
14. **Salek Farrokhi.A**, Rana Ezzeddini, Ghorban.K, Tahoori. MT, Hashemi.V. **Foxp3 gene polymorphism in rheumatoid arthritis patients associated with Tregs frequency in Iranian population**, In the 14th International Congress of Immunology & Allergy, 2017, Tehran.
15. Shahab Shahghaldi, **Amir Salek Farrokhi**, Seyed Mohammad Moazzeni. **MSC therapy reduces complement precipitation at the feto-maternal interface of abortion prone mice**, In the 14th International Congress of Immunology & Allergy, 2017, Tehran.
16. Rana Ezzeddini, Mohammad Taghikhani, Mohammad Hossein Somi, **Amir Salek Farrokhi**, **Relationship between helicobacter pylori and TIMP-1 in gastric**

adenocarcinoma, In the 14th International Congress of Immunology & Allergy, 2017, Tehran.

17. **Amir Salek Farrokhi**, Shahab Shahghaldi, Maryam Eskandaryan, Diba Rezaei, Rana Ezzeddini, Seyed Mohammad Moazzeni. **EGCG induces regulatory T cells and reduces fetal rejection in the abortion prone mouse model**, 5th National and first international congress on novel and innovative laboratory technologies, 2017, Tehran.
18. Rana Ezzeddini, Mohammad Taghikhani, **Amir Salek Farrokhi**, Mohammad Hossein Somi, **Upregulation of FAS expression in patients with gastric adenocarcinoma**, 5th National and first international congress on novel and innovative laboratory technologies, 2017, Tehran.
19. Rana Ezzeddini, **Amir Salek Farrokhi**, Mohammad Taghikhani, Mohammad Hossein Somi, **Association of Foxp3 polymorphism with IL-35 concentration in gastric adenocarcinoma patients**, In the 15th Virtual International Congress of Immunology & Allergy, 2021, Iran

Projects:

- 1- **2011 - Completed, Collaborator:** The study of class switch recombination (CSR) process in B lymphocytes from patients with common variable immunodeficiency (CVID). Tehran University of Medical Sciences
- 2- **2016- Completed, Collaborator:** The study of the Foxp3 Gene Polymorphism in Iranian Patients with Rheumatoid Arthritis. Tarbiat Modares University.
- 3- **2017- Completed, Collaborator::** Evaluation of Foxp3 rs3761548 Polymorphism in Patients with gastric cancer in East Azarbaijan. Liver and gastrointestinal disease research center, Tabriz University of medical sciences.
- 4- **2018- Executor:** The study of Immunomodulatory and antioxidant effects of Epigallocatechin-3-Galate (Active green tea composition) on abortion rate in the abortion-prone mouse model, Semnan University of medical sciences.
- 5- **2018- Executer:** The effect of Thymoquinone expression of IL-17, TGF- and Transcription factors of TCD4+ lymphocyte in splenocyte in the experimental autoimmune encephalomyelitis, Semnan University of medical sciences.
- 6- **2018- Completed, Executer:** Effect of bone marrow mesenchymal stem cells on the expression of IL-33, PD1 and GM-CSF genes of brain and secretion of interleukins 27 and 33 from spleen leukocyte in experimental autoimmune encephalomyelitis, Semnan University of medical sciences.

- 7- **2018- Collaborator:** Detection of genes associated with binding, invasive and pathogenicity of *Klebsiella pneumonia* isolated from UTI patients, Semnan University of medical sciences.
- 8- **2019- Collaborator:** Investigation of the presence of virulence factors and Carbapenems resistance genes in clinical isolates of *Salmonella* spp. isolated from gastrointestinal and septicemia specimens among hospitalized patients, Semnan University of medical sciences.
- 9- **2019- Collaborator:** Investigation of DLL4 in human prostate and breast cancers tissue using tissue microarray (TMA) analyse based Nanobody, Semnan University of medical sciences.
- 10- **2019- Collaborator:** Evaluation of therapeutic effect of probiotics supplement to improvement of sign and immunomodulation in patients with asthma, Semnan University of medical sciences.

Honors:

- 1- Ranking the 3st in Ph.D entrance exam (Tarbiat Modarres University) of Medical Immunology (2011).
- 2- Ranking the 7th in M.Sc entrance exam (Tarbiat Modarres University) of Medical Immunology (2008).
- 3- Winner of the Iran National Elite Foundation “Scientific Award”, 2 years, 2013 and 2014.

PROFESSIONAL EXPERIENCES:

- Standard molecular biology techniques including: DNA and RNA extraction, PCR, RT-PCR, Real-time PCR, HRM and Designs.
- Immunological techniques: such as MTT, CFSE, H₃Thymidine, Tunel, cytokine assay, western blotting, ELISA, ...
- Multi-color flow cytometry, Magnetic Cell Isolation and Cell Separation, IHC
- Biochemistry techniques: PAGE, SDS-PAGE, Western blot.
- Microbiology techniques including: culture of bacteria.
- Animal cell culture technology including isolation and culture of primary cells, cell line culture, Passage, Transfection.
- Animal manipulation: Abortion prone mouse model, Immunization, mouse tumor and EAE model.
- Statistical analysis (SPSS, Graph Pad Prism, Excel, etc.).

Teaching Experiences:

1. Immunology, (**Undergraduate**), Islamic Azad University, Tabriz Branch, (2011).
2. Blood Banking Lab, (**Undergraduate**), Islamic Azad University, Tabriz Branch, (2011).
3. Advanced Immunology, (**Graduate**), Islamic Azad University OF Tehran Varamin Pishva Branch, (2014).
4. Immunology, (**Undergraduate**), Islamic Azad University, Tehran Medical Branch, (2015).
5. Immunology Lab, (**Undergraduate**), Islamic Azad University, Tehran Medical Branch, (2015).
6. Research assistant 6 Immunology courses, (**Graduate**) Tarbiat Modares University (2011).
7. Teacher assistant 6 Immunology courses, (**Graduate**) Tarbiat Modares University (2013).
8. Teacher Immunology courses, (**Graduate**) and (**Undergraduate**), Semnan University of Medical Sciences (2018-Present).

Books:

1. Translation to Persian and editing of Cellular and molecular Immunology (2012), Jafari Educational and Cultural Press (in Persian)..
2. Translation to Persian and editing of Oral microbiology at a glance (2013), Hormozgan University of Medical Sciences Educational and Cultural Press (in Persian).
3. brucellose at a glance (2014), Hormozgan University of Medical Sciences Educational and Cultural Press (in Persian).

References:

I have asked the following professors to serve as references:

1. Seyed Mohammad Moazzeni, my supervisor in Tarbiat Modares University.

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2. Amir-Hassan Zarnani, my advisor at Avicenna Research Institute.

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3. Ali Akbar Poufathollah, my advisor in Tarbiat Modares University.

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