



Biography

Curriculum Vitae

Full Name: Elham Safarzadeh, Ph.D

Assistance Professor of Immunology, Faculty of Medicine, Ardabil University of Medical Sciences

Education,

2014 –2018 Ph.D. Immunology / Tabriz University of Medical Sciences

2012- 2014 MSc Immunology / Tabriz University of Medical Sciences

2005- 2007 BS degree in Medical Laboratory Science/Tabriz University of Medical Sciences

2003-2005 AD degree in Medical Laboratory Science/Ardebil University of Medical Sciences

Cell phone: +98 9143583674

Email ; safarzadehelham@yahoo.com

Academic Email: E.safarzadeh@arums.ac.ir

Scopus Author ID: <https://www.scopus.com/authid/detail.uri?authorId=56342697300>

ResearcherID: 0000-0001-6160-8923

Personal

- Date of birth: **April 6, 1985**
- Place of birth: **Ardabil**
- Sex: **Female**
- Nationality: **Iranian**
- Statues: **Married**

Education

Month/Year- Month/Year

2014 –2018 Ph.D. Immunology / Tabriz University of Medical Sciences

2012- 2014 MSc Immunology / Tabriz University of Medical Sciences

2005- 2007 BS degree in Medical Laboratory Science/Tabriz University of Medical Sciences

2003-2005 AD degree in Medical Laboratory Science/Ardebil University of Medical Sciences

Publications

- 1) **Anacyclus pyrethrum extract significantly destroyed lung cancer cell line (A549) by inducing apoptosis**, Journal of Herbal Medicine, 2023
- 2) **Drug-induced hepatitis (DIH) after SARS-CoV-2 vaccination**, Clinics and Research in Hepatology and Gastroenterology. 2023
- 3) **The Expression Patterns of cGAS and STING as Potential Diagnostic Markers in Gastric Cancer**, Journal of Pharmaceutical Negative Results, 2023
- 4) **Cognitive Impairment and Neurodegenerative Diseases Development Associated with Organophosphate Pesticides Exposure: a Review Study**, Neurotoxicity research, 2022
- 5) **Serum Brain-Derived Neurotrophic Factor (BDNF) in COVID-19 Patients and its Association with the COVID-19 Manifestations**, Journal of Molecular Neuroscience, 2022
- 6) **DNA methylation changes and inflammaging in aging-associated diseases**, Epigenomics, 2022
- 7) **The role of IL-1 family of cytokines and receptors in pathogenesis of COVID-19**, Inflammation Research, 2022
- 8) **MicroRNA-143 act as a tumor suppressor microRNA in human lung cancer cells by inhibiting cell proliferation, invasion, and migration**, Molecular Biology Reports, 2022
- 9) **The tricks for fighting against cancer using CAR NK cells: A review**, Molecular and Cellular Probes, 2022
- 10) **The expression pattern of VISTA in the PBMCs of relapsing-remitting multiple sclerosis patients: A single-cell RNA sequencing-based study**, Biomedicine & Pharmacotherap, 2022
- 11) **Evaluation serum levels of Insulin Growth Factor-1 (IGF-1) and its association with clinical parameters in severe COVID-19**, Inflammopharmacology, 2022
- 12) **The effect of convalescent plasma on the treatment of COVID-19 patients in Ardabil, Iran**, Journal of Education and Health Promotion, 2022
- 13) **Hematological Parameters as Diagnostic Factors: Correlation with Severity of COVID-19**, Acta Bio Medica: Atenei Parmensis, 2022

- 14) **Prognostic significance and therapeutic potentials of immune checkpoints in osteosarcoma**, EXCLI journal, 2022
- 15) **The sufficient vitamin D and albumin level have a protective effect on COVID-19 infection**, Archives of microbiology, 2021
- 16) **Myeloid-derived suppressor cells: Important communicators in systemic lupus erythematosus pathogenesis and its potential therapeutic significance**, Human Immunology, 2021
- 17) **EZH2 knockdown upregulates expression of the genes involved in T-ALL cell differentiation**, Pharmaceutical Sciences, 2021
- 18) **MiR-142-3p targets HMGA2 and suppresses breast cancer malignancy**, Life Sciences, 2021
- 19) **The immune response and immune evasion characteristics in SARS-CoV, MERS-CoV, and SARS-CoV-2: Vaccine design strategies**, International immunopharmacology, 2021
- 20) **STAT3 silencing and TLR7/8 pathway activation repolarize and suppress myeloid-derived suppressor cells from breast cancer patients**, Frontiers in immunology, 2021
- 21) **Immunomodulatory Effect of Human Umbilical Cord Blood-derived Mesenchymal Stem Cells on Activated T-lymphocyte**, Iranian Journal of Allergy, Asthma and Immunology, 2021
- 22) **Performance of Ardabil University of Medical Sciences during Coronavirus Pandemic**, Journal Of Health And Hygiene, 2021
- 23) **Restoration of miR-330 expression suppresses lung cancer cell viability, proliferation, and migration**, Journal of Cellular Physiology, 2021
- 24) **siRNA-mediated silencing of CD44 delivered by Jet Pei enhanced Doxorubicin chemo sensitivity and altered miRNA expression in human breast cancer cell line (MDA-MB468)**, Molecular Biology Reports, 2020
- 25) **The prevalence of respiratory allergens in patients with asthma and allergic rhinitis in Ardabil province**, Tehran University Medical Journal TUMS Publications, 2020
- 26) **MicroRNAs and lncRNAs—a new layer of myeloid-derived suppressor cells regulation**, Frontiers in immunology, 2020
- 27) **The role of miR-34 in cancer drug resistance**, Journal of Cellular Physiology, 2020

- 28) **Immune checkpoints in tumor microenvironment and their relevance to the development of cancer stem cells**, Life Sciences, 2020
- 29) **Targeting immune checkpoints: Building better therapeutic puzzle in pancreatic cancer combination therapy**, European Journal of Cancer Care, 2020
- 30) **Current approaches for combination therapy of cancer: The role of immunogenic cell death**, Cancers, 2020
- 31) **An emerging approach for combination therapy of cancer: the role of immunogenic cell death**, Preprints, 2020
- 32) **Evaluation of ERAP1 gene single nucleotide polymorphisms in immunomodulation of pro-inflammatory and anti-inflammatory cytokines profile in ankylosing spondylitis**, Immunology letters, 2020
- 33) **New series of water-soluble thiosemicarbazones and their copper (II) complexes as potentially promising anticancer compounds**, Journal of Molecular Liquids, 2019
- 34) **The evaluation of the frequency and function of MDSCs in breast cancer patients undergoing chemotherapy**, European Journal Of Immunology, 2019
- 35) **Chemical composition and some biological activities of Artemisia marschalliana essential oil**, Research Journal of Pharmacognosy, 2019
- 36) **microRNAs in cancer stem cells: Biology, pathways, and therapeutic opportunities**, Journal of Cellular Physiology, 2019
- 37) **Interactions between cancer stem cells, immune system and some environmental components: friends or foes?**, Immunology letters, 2019
- 38) **Circulating myeloid-derived suppressor cells: An independent prognostic factor in patients with breast cancer**, Journal of cellular physiology
- 39) **Phytochemical analysis and various biological activities of the aerial parts of Scrophularia atropatana growing in Iran**, Iranian Journal of Pharmaceutical Research: IJPR, 2019
- 40) **Evaluation of ERAP1 gene single nucleotide polymorphism in impressing the inflammatory cytokine profile of ankylosing spondylitis patients**, Iranian Journal of Allergy, Asthma and Immunology, 2018
- 41) **Myeloid-derived suppressor cells: important contributors to tumor progression and metastasis**, Journal of cellular physiology, 2018

- 42) **The role of gut microbiota and IL-23/IL-17 pathway in ankylosing spondylitis immunopathogenesis: New insights and updates**, Immunology letters, 2018
- 43) **The effect of bone marrow mesenchymal stem cells on the granulocytic differentiation of HL-60 cells**, Turkish Journal of Hematology, 2018
- 44) **Scrophularia atropatana extract reverses tp53 gene promoter hypermethylation and decreases survivin antiapoptotic gene expression in breast cancer cells**, Asian Pacific Journal of Cancer Prevention: APJCP, 2018
- 45) **The paradox of Th17 cell functions in tumor immunity**, Cellular Immunology, 2017
- 46) **The cytotoxic and apoptotic effects of Scrophularia atropatana extracts on human breast cancer cells**, Advanced Pharmaceutical Bulletin, 2017
- 47) **Diagnostic value of Immunoblotting assay for Determination of anti-nuclear antibodies in rheumatic diseases**, Advances in Bioresearch, 2017
- 48) **Antiproliferative and apoptotic effects of a specific anti-insulin-like growth factor I receptor single chain antibody on breast cancer cells**, Tumor Biology, 2016
- 49) **The role of adenosine and adenosine receptors in the immunopathogenesis of multiple sclerosis**, Inflammation Research, 2016
- 50) **Herbal medicine as inducers of apoptosis in cancer treatment**, Advanced pharmaceutical bulletin, 2014

Presentations

1. **In vitro cytotoxic effects of dichloromethane extract of Scrophularia atropatana on WEHI-164 cells**

15th International Congress of Immunology - ICI 2013 Italy

2. **Evaluation of cytotoxic effect of dichloromethane extract of Scrophularia atropatana in MCF-7 cancer cells**

The Second International Congress of Immunology, Asthma and Allergy

3. **Methanolic extract of Scrophularia atropatana induce apoptosis**

The 12th International Congress of Immunology and Allergy of Iran

4. Leishmania lymphadenitis diagnosis by fine needle aspiration biopsy in Fatemi hospital of Ardabil City, Ardabil Province, Iran

The 12th International Congress of Immunology and Allergy of Iran

5. Evaluation of the CCNE2 Gene Polymorphism in Iranian Patients with breast cancer

13th International Congress of Immunology & Allergy of Iran

6. The effect of IL-4 and integrin $\alpha V\beta 5$ on Monocytes proliferation in giant cell granuloma patients

13th International Congress of Immunology & Allergy of Iran

7. Cytotoxic Effect of Medicinal Plant Scrophularia atropatana Extract on Human Breast Cancer SKBR3 cell Line

The Second International Congress of Immunology, Asthma and Allergy

8. The remains of Tetracycline, Oxytetracycline and Cholera tetracycline in meat and some tissues (liver and kidney) samples consumed by Ardebil Peoples

10th Iranian Nutrition congress, 2008

9. Myeloid-Derived Suppressor Cells suppress antitumor immune responses through STAT3 expression in patient with breast cancer

14th International Congress of Immunology & Allergy of Iran

10. Expression of the level of CD44 protein in various breast cancer cell lines

14th International Congress of Immunology & Allergy of Iran

11. Expression of the level of CD133 protein in various colorectal cancer cell lines

14th International Congress of Immunology & Allergy of Iran

Books

- 1. 2015 Comprehensive Immunology for Students in Persian Language**
- 2. 2016 Treasure points in Immunology in Persian Language**
- 3. 2016 Common protocols in basic sciences in Persian Language**

Teaching experience

1. Immunology, Faculty of Medicine and Pharmacy, Tabriz University of Medical Sciences, Tabriz, Iran. (for medicine students, MSc Immunology, Microbiology, Biochemistry and Parasitology students, pharmacy and nurse students)
2. Ardebil University of Medical Sciences (for medicine students, MSc Microbiology students, pharmacy and nurse students)

Executive responsibilities

۱. موسس مرکز تحقیقاتی ایمنولوژی سرطان و ایمونوتراپی
اردبیل/۱۴۰۱ - اکنون
۲. رئیس کمیته تحقیقات و فناوری دانشجویی دانشگاه علوم پزشکی اردبیل
اردبیل/۱۳۹۷ - اکنون
۳. مسول پژوهش های مرتبط کووید ۱۹ دانشگاه علوم پزشکی اردبیل
اردبیل / ۱۳۹۸ - اکنون
۴. عضو هیئت علمی دانشگاه
۵. گروه میکروبیولوژی و ایمنولوژی، دانشکده پزشکی دانشگاه علوم پزشکی اردبیل
اردبیل / ۱۳۹۶ - اکنون
۶. عضو کمیته بیماری های غیرواگیر؛ صعبالعلاج و مزمن مؤسسه ملی توسعه تحقیقات علوم پزشکی ایران (نیماد)
۷. عضو کمیته کلان منطقه ۲ آمایش کشور ساماندهی طرح های تحقیقاتی کووید ۱۹
۸. عضو کمیته دانشگاهی ثبت عوارض واکسیناسیون کووید ۱۹
۹. مسؤل بخش ارزشیابی کل دوره پزشکی عمومی اعتبار بخشی
۱۰. عضو کمیته اپیدمیولوژی کووید - ۱۹ کلان منطقه ۲ آمایش کشور
۱۱. رئیس هیئت داوران بیست و سومین کنگره ملی سالیانه و نهمین کنگره بین المللی پژوهشی دانشجویان علوم پزشکی
۱۲. سرپرست اجرایی بیست و سومین کنگره ملی سالیانه و نهمین کنگره بین المللی پژوهشی دانشجویان علوم پزشکی
۱۳. سرپرست نخستین جشنواره ملی پژوهش و فناوری دانشجویان دانشگاه های علوم پزشکی کشور
۱۴. مسؤل المپیاد علمی دانشجویان علوم پزشکی کشور در حیطه تفکر علمی در علوم پایه (دوره ۱۲ و ۱۳)
۱۵. عضو کمیته برنامه ریزی درسی دانشکده پزشکی
۱۶. مشاور فرهنگی دانشجویی دانشکده پزشکی و پیراپزشکی

۱۷. عضو کمیته پژوهش در آموزش دانشگاه علوم پزشکی اردبیل
۱۸. عضو شورای پژوهشی دانشگاه
۱۹. عضو شورای پژوهشی دانشکده پزشکی
۲۰. سرپرست هسته فناوری دانشگاه علوم پزشکی اردبیل در همایش ملی فن بازار سلامت

Awards and appreciation

۱. دانشجوی ممتاز آموزشی در مقطع کاردانی-۱۳۸۳
۲. دانشجوی ممتاز آموزشی در مقطع دکتری-۱۳۹۵
۳. پژوهشگر برجسته کشوری در مقطع دکتری-۱۳۹۹
۴. پژوهشگر برتر استانی در سال ۱۴۰۱
۵. رتبه چهارم کشوری در رشته نهج البلاغه بیست و پنجمین جشنواره کشوری قرآن و عترت دانشگاهیان وزارت بهداشت(هدهد)
۶. رتبه سوم کشوری در رشته نهج البلاغه بیست و ششمین جشنواره کشوری قرآن و عترت دانشگاهیان وزارت بهداشت(هدهد)
۷. رتبه دوم دانشگاهی در رشته نهج البلاغه بیست و پنجمین جشنواره کشوری قرآن و عترت دانشگاهیان وزارت بهداشت(هدهد)
۸. رتبه اول دانشگاهی در رشته نهج البلاغه بیست و ششمین جشنواره کشوری قرآن و عترت دانشگاهیان وزارت بهداشت(هدهد)
۹. رتبه اول دانشگاهی در رشته نهج البلاغه بیست و هفتمین جشنواره کشوری قرآن و عترت دانشگاهیان وزارت بهداشت(هدهد)

Professional Experiences

1. Immunological techniques: such as Flow cytometry, MACS, MTT, TUNEL, ELISA, Western blotting, IHC
2. Biochemistry techniques: PAGE, Biochemistry tests
3. Cell culture
4. Molecular techniques: Real time PCR
5. Hematology techniques: CBC, Differential, Morphology
6. Serologic tests

اختراعات ثبت ملی شده

۱. رک نگهدارنده و منظم کننده پلیت و فلاسک کشت سلولی درون انکوباتور CO₂ و مرطوب (1399)
۲. پارچه پوشش داده شده با نانو کامپوزیت سیلیکون به عنوان محافظ اشعه ایکس (1399)
۳. بطری قرص جوشان دارای درب تک انداز قرص ها (1399)
۴. محفظه مواجهه مستقیم دود/گاز/بخار برای بدن موش آزمایشگاهی بدون درگیری مسیر تنفسی (1399)
۵. قطعه خراش دهنده لایه سلولی مورد استفاده برای تست التیام زخم در آزمایشگاه تحقیقاتی (1399)
۶. دهنی قلیان فیلتر دار و آنتی باکتریال بر پایه نانوذرات نقره متصل شده به کربن فعال و یاف سلولوزی (1398)
۷. افشانه خودکار استریل کننده آزمایشگاهی دارای چشم الکترونیکی مادون قرمز (۱۳۹۸)