

## Curriculum Vitae



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### **PERSONAL INFORMATION**

**Date of Birth:** 12.February.1981

**Nationality:** Iranian

**Marital Status:** Married

**Scopus ID:** **55622352500**

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## **EMPLOYMENT HISTORY**

2007 - 2017      Tabriz University of Medical Sciences, Medicine Faculty, Immunology  
Department, Tabriz, Iran

2017- Present    Tabriz University of Medical Sciences, Immunology research center, Tabriz, Iran

## **Occupation/Position**

Academic and Research member

## **CURRENT STATUS**

- Associate Professor of Immunology, Immunology Research Center, Tabriz University of Medical Sciences
- Research Deputy of Immunology Research Center
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## **AREAS of RESEARCH INTEREST**

- Immunotherapy
- Reproductive Immunology
- Immunotherapy of cancers
- Autoimmunity Diseases

## **EDUCATIONAL BACKGROUND**

- 1- B.Sc. (1999- 2001) - Medical Laboratory Technology (Tabriz University of Medical Sciences, Tabriz, Iran)
- 2- M.Sc.( 2009- 2012) - Immunology (Tabriz University of Medical Sciences, Tabriz, Iran)
- 3- Ph.D. (2013-2016) - Immunology (Tabriz University of Medical Sciences, Tabriz, Iran)

## **EDUCATIONAL INFORMATION**

1. MSc graduation score (19.5 out of 20)
2. MSc Thesis score (19.96 out of 20)

3. MSC Thesis title: Production and characterization of monoclonal antibody against CD34 marker in Balb/c mice
4. Ranking the 1st in PhD (2013).
5. Ph. D graduation score (19.63 out of 20)
6. Ph. D Thesis score (20 out of 20)
7. Ph. D Thesis title: Isolation and characterization of Anti ROR1 scFv fragment by Phage display

### **Awards**

- 2014; Top Researcher of Tabriz University of Medical Sciences
- 2015; Top Student Researcher, Deputy of research and technology (Tabriz University of Medical Sciences)
- 2016; Top Technologist of Tabriz University of Medical Sciences
- 2016; Member of National Elites Foundation (INEF) / East Azarbaijan /Academic Awards
- 2017; Top Researcher of “The Third International Congress of Immunology, Asthma & Allergy” (Tehran, Iran)
- 2019; Top Researcher of Tabriz University of Medical Sciences (Tabriz, Iran)
- 2020; Member of National Elites Foundation (INEF) /Iran
- 2020; Top 2% highly cited researcher (ESI)
- 2021; Top 2% highly cited researcher (ESI)
- 2022; Top 2% highly cited researcher (ESI)
- 2023; Top Researcher of Tabriz University of Medical Sciences (Tabriz, Iran)

### **Patents**

- 2013; Production of monoclonal antibody against CD34 marker in Balb/c mice
- 2017; The synthesis of scFv fragments of human antibody against insulin-like growth factor-1 receptor (IGF-IR) and its use in inhibiting the growth of breast cancer cells.
- 2019; the synthesis and isolation of human antibody scFv fragments using phage display technique against the receptor (ROR1) and its inhibitory effects on leukemia cancer cells.
- 2019; the synthesis isolation of human antibody scFv fragments using phage display technique against the receptor (FZD7) and its inhibitory effects on breast cancer cells.
- 2018; Polyclonal Antibody against Human kappa light chains
- 2019; ELISA kit for measuring the light chain of antibodies in rheumatoid arthritis patients

**Publications:****JOURNAL PAPERS****Original Articles**

- 1- Mohammad Sadegh Soltani-Zangbar, Forough Parhizkar, Elham Ghaedi, Ali Tarbiat, Roza Motavalli, Amin Alizadegan, **Leili Aghebati-Maleki**, Davoud Rostamzadeh, Yousef Yousefzadeh, Golamreza Jadideslam, Sima Shahmohammadi Farid, Leila Roshangar, Ata Mahmoodpoor, Javad Ahmadian Heris, Abolfazl Miahipour, Mehdi Yousefi. A comprehensive evaluation of the immune system response and type-I Interferon signaling pathway in hospitalized COVID-19 patients. *Cell Communication and Signaling*, 20(1),106. <https://doi.org/10.1186/s12964-022-00903-6>.
- 2- Ramin Pourakbari, Mehdi Yousefi, Balal Khalilzadeh, Mahsa Haddad Irani-nezhad, Alireza Khataee, **Leili Aghebati-Maleki**, Alireza Soleimani, Amin Kamrani, Forough Chakari-Khiavi, Rozita Abolhasan, Morteza Motallebnezhad, Farhad Jadidi-Niaragh, Bahman Yousefi, Hossein Samadi Kafil, Mohammad Hojjat-Farsangi & Mohammad-Reza Rashidi. Early stage evaluation of colon cancer using tungsten disulfide quantum dots and bacteriophage nanobiocomposite as an efficient electrochemical platform. *Cancer Nanotechnology*, 13(1),7. <https://doi.org/10.1186/s12645-022-00113-2>.
- 3- Masoumeh Ghasempour, Maryam Hosseini, Mohammad Sadegh Soltani-Zangbar, Roza Motavalli, **Leili Aghebati-Maleki**, Sanam Dolati, Amir Mehdizadeh, Mehdi Yousefi and Javad Ahmadian Heris. The impact of Hyssop (*Hyssopus officinalis*) extract on activation of endosomal toll like receptors and their downstream signaling pathways. *BMC Research Notes*, 15(366), 1-7. <https://doi.org/10.1186/s13104-022-06253-3>.
- 4- Amin Kamrani , Mohammad Sadegh Soltani-Zangbar, Sadaf Shiri , Yousef Yousefzadeh, Ramin Pourakbari , **Leili Aghebati-Maleki** , Amir Mehdizadeh , Shahla Danaii , Farhad Jadidi-Niaragh , Bahman Yousefi , Hossein Samadi Kafil , Mohammad Hojjat-Farsangi , Roza Motavalli , Mohammadali Zolfaghari , Mostafa Haji-Fatahaliha , Ata Mahmoodpoor , Javad Ahmadian Heris , Asma Emdadi , Mehdi Yousefi. TIGIT and CD155 as Immune-Modulator Receptor and Ligand on CD4+ T cells in Preeclampsia Patients. *Immunological Investigations* 2022 May;51(4):1023-1038. doi: 10.1080/08820139.2021.1904976.
- 5- Jalal Etemadi , Shima Bordbar , Mohammad Sadegh Soltani-Zangbar , Mahsa Hajivalili , **Leili Aghebati-Maleki** , Roza Motavalli , Ata Mahmoodpoor , Sima Shahmohammadi-Farid , Sima Abedi Azar , Bahram Niknafs , Leila Roshangar , Zohreh Babaloo , Javad Ahmadian Heris , Maryam Hosseini , Oldouz Shareghi-Oskoue , Forough Parhizkar , Hamid Tayebi Khosroshahi , Mehdi Yousefi. Prevalence of SARS-CoV-2 Specific Antibodies in Asymptomatic Hemodialysis Patients. *Immunological Investigations* 2022 May;51(4):993-1004. doi: 10.1080/08820139.2021.1899202.
- 6- Roza Motavalli , Jalal Etemadi , Mohammad Sadegh Soltani-Zangbar , Mohamad-Reza

- Ardalan , Houman Kahroba , Leila Roshangar , Mohammad Nouri , **Leili Aghebati-Maleki** , Farhad Motavalli Khiavi , Sima Abediazar , Amir Mehdizadeh , Mohammad Hojjat-Farsangi , Ata Mahmoodpoor , Hossein Samadi Kafil , Mohamadali Zolfaghari , Javad Ahmadian Heris , Mehdi Yousefi. Altered Th17/Treg ratio as a possible mechanism in pathogenesis of idiopathic membranous nephropathy. *Cytokine*. 2021 May;141:155452. doi: 10.1016/j.cyto.2021.155452.
- 7- Ata Mahmoodpoor, Maryam Hosseini, Sadegh Soltani-Zangbar, Sarvin Sanaie, **Leili Aghebati-Maleki**, Seyed Hadi Saghaleini, Zohreh Ostadi, Mahsa Hajivalili, Zhinous Bayatmakoo, Mostafa Haji-Fatahaliha, Zohreh Babaloo, Sima Shahmohammadi Farid, Javad Ahmadian Heris, Leila Roshangar, Reza Rikhtegar, Hossein Samadi Kafil, Mehdi Yousefi. Reduction and exhausted features of T lymphocytes under serological changes, and prognostic factors in COVID-19 progression. *Molecular Immunology*, 2021 Oct;138:121-127. doi: 10.1016/j.molimm.2021.06.001.
  - 8- Sahar Madadi, Sina Mohammadinejad, Amin Alizadegan, Mohammad Hojjat-Farsangi, Sanam Dolati, Hossein Samadi Kafil, Farhad Jadidi-Niaragh, Mohammad Sadegh Soltani-Zangbar, Roza Motavalli, Jalal Etemadi, Shadi Eghbal-Fard, **Leili Aghebati-Maleki**, Shahla Danaii, Simin Taghavii, Mehdi Yousefi. Expression level of immune checkpoint inhibitory factors in preeclampsia. *Human Immunology*, 83(8-9), pp. 628-636 2022. doi: 10.1016/j.humimm.2022.07.004.
  - 9- Ramin Pourakbari, Forough Parhizkar, Mohammad Sadegh Soltani-Zangbar, Parisa Samadi, Majid Zamani, **Leili Aghebati-Maleki**, Roza Motavalli, Ata Mahmoodpoor, Farhad Jadidi-Niaragh, Bahman Yousefi, Hossein Samadi Kafil, Mohammad Hojjat-Farsangi, Shahla Danaii, Mehdi Yousefi. Preeclampsia-Derived Exosomes Imbalance the Activity of Th17 and Treg in PBMCs from Healthy Pregnant Women. *Reproductive Sciences*, 2022 Sep 26. doi: 10.1007/s43032-022-01059-x.
  - 10- Yousef Yousefzadeh, Mohammad Sadegh Soltani-Zangbar, Ladan Kalafi, Ali Tarbiat, Sima Shahmohammadi Farid, **Leili Aghebati-Maleki**, Forough Parhizkar, Shahla Danaii, Simin Taghavi, Farhad Jadidi-Niaragh, Hossein Samadi Kafil, Ata Mahmoodpoor, Javad Ahmadian Heris, Mohammad Hojjat-Farsangi, Mehdi Yousefi. Evaluation of CD39, CD73, HIF-1alpha, and their related miRNAs expression in decidua of preeclampsia cases compared to healthy pregnant women. *Molecular Biology Reports*, 49(11), pp. 10183-10193. doi: 10.1007/s11033-022-07887-z.
  - 11- Raha Markazi, Mohammad Sadegh Soltani-Zangbar, Majid Zamani, Shadi Eghbal-Fard, Roza Motavalli, Amin Kamrani, Sanam Dolati, Majid Ahmadi, **Leili Aghebati-Maleki**, Amir Mehdizadeh, Fariba Eslamian, Alireza Pishgahi, Mehdi Yousefi. Platelet lysate and tendon healing: comparative analysis of autologous frozen-thawed PRP and ketorolac tromethamine in the treatment of patients with rotator cuff tendinopathy. *Growth Factors*, 40(5-6), pp. 163-174. doi: 10.1080/08977194.2022.2093198.

- 12- Rozita Abolhasan, Balal Khalilzadeh, Hadi Yousefi, Sahar Samemaleki, Forough Chakari-Khiavi, Farzaneh Ghorbani, Ramin Pourakbari, Amin Kamrani, Alireza Khataee, Tannaz Sadeghi Rad, Mohammad Reza Rashidi, Mehdi Yousefi, **Leili Aghebati Maleki**. Ultrasensitive and label free electrochemical immunosensor for detection of ROR1 as an oncofetal biomarker using gold nanoparticles assisted LDH/rGO nanocomposite. *Scientific Reports*, 11(1),14921. <https://doi.org/10.1038/s41598-021-94380-5>.
- 13- Mohammad Ali Zolfaghari, Roza Motavalli, Mohammad Sadegh Soltani-Zangbar, Forough Parhizkar, Shahla Danaii, **Leili Aghebati-Maleki**, Mohammad Noori, Sanam Dolati, Majid Ahmadi, Hossein Samadi Kafil, Farhad Jadidi-Niaragh, Javad Ahmadian Heris, Ata Mahmoodpoor, Mohammad Saeid Hejazi, Mehdi Yousefi, A new approach to the preeclampsia puzzle; MicroRNA-326 in CD4+ lymphocytes might be as a potential suspect, *Journal of Reproductive Immunology*, Volume 145, <https://doi.org/10.1016/j.jri.2021.103317>.
- 14- Zahra Pourmoghadam, Mohammad Sadegh Soltani-Zangbar, Golshan Sheikhsari, Ramyar Azizi, Shadi Eghbal-Fard, Hamed Mohammadi, Homayoon Siahmansouri, **Leili Aghebati-Maleki**, Shahla Danaii, Amir Mehdizadeh, Mohammad Hojjat-Farsangi, Roza Motavalli, Mehdi Yousefi. Intrauterine administration of autologous hCG- activated peripheral blood mononuclear cells improves pregnancy outcomes in patients with recurrent implantation failure; A double-blind, randomized control trial study. *J Reprod Immunol*. 2020 Aug 4; 142:103182. doi: 10.1016/j.jri.2020.103182.
- 15- Shahla Danaii, Farzaneh Ghorbani, Majid Ahmadi, Hossein Abbaszadeh, Ladan Koushaeian, Mohammad Sadegh Soltani-Zangbar, Amir Mehdizadeh, Mohammad Hojjat-Farsangi, Hossein Samadi Kafil, **Leili Aghebati-Maleki**, Mehdi Yousefi. IL-10-producing B cells play important role in the pathogenesis of recurrent pregnancy loss. *Int Immunopharmacol*. 2020 Jul 18; 87:106806. doi: 10.1016/j.intimp.2020.106806.
- 16- Golshan Sheikhsari, Mohammad Sadegh Soltani-Zangbar, Zahra Pourmoghadam, Amin Kamrani, Ramyar Azizi, **Leili Aghebati-Maleki**, Shahla Danaii, Ladan Koushaeian, Mohammad Hojjat-Farsangi, Mehdi Yousefi. Oxidative stress, inflammatory settings, and microRNA regulation in the recurrent implantation failure patients with metabolic syndrome. *American Journal of Reproductive Immunology*, 2019. 82(4), e13170
- 17- Majid Ahmadi, Mahnaz Ghaebi, Samaneh Abdolmohammadi-Vahid, Sanaz Abbaspour-Aghdam, Kobra Hamdi, Sedigheh Abdollahi-Fard, Shahla Danaii, Parisa Mosapour, Ladan Koushaeian, Sanam Dolati, Reza Rikhtegar, Farnaz Dabiri Oskouei, **Leili Aghebati-Maleki**, Mohammad Nouri, Mehdi Yousefi. NK cell frequency and cytotoxicity in correlation to pregnancy outcome and response to IVIG therapy among women with recurrent pregnancy loss. *J Cell Physiol*. 2019 Jun;234(6):9428-9437.
- 18- Mahnaz Ghaebi, Samaneh Abdolmohammadi-Vahid, Majid Ahmadi, Shadi Eghbal-Fard, Sanam Dolati, Mohammad Nouri, Mehdi Talebi, Kobra Hamdi, FaroughMarofi, **Leili**

- Aghebati-Maleki**, Farhad Jadidi Niaragh, Masoume Dopour, Mehdi Yousefi. T cell Subsets in Peripheral Blood of Women with Recurrent Implantation Failure. *J Reprod Immunol*. 2019 Feb; 131:21-29.
- 19- Sara Jafarzadeh, Majid Ahmadi, Sanam Dolati, **Leili Aghebati-Maleki**, Shadi Eghbal-Fard, Amin Kamrani, Behboud Behrad, Leila Roshangar, Farhad Jadidi-Niaragh, Bahman Yousefi, Mahdi Mehdipour, Laya Farzadi, Mehdi Yousefi. Intravenous immunoglobulin G treatment increases live birth rate in women with recurrent miscarriage and modulates regulatory and exhausted regulatory T cells frequency and function. *J Cell Biochem*. 2019 Apr;120(4):5424-5434.
  - 20- Majid Ahmadi, Samaneh Abdolmohammadi-vahid, Mahnaz Ghaebi, **Leili Aghebati-Maleki**, Amir Afkham, Shahla Danaei, Sedigheh Abdollahi-Fard, Lida Heidari, Farhad Jadidi-Niaragh, Vahid Younesi, Mohammad Nouri, Mehdi Yousefi, Effect of Intravenous immunoglobulin on Th1 and Th2 lymphocytes and improvement of pregnancy outcome in recurrent pregnancy loss (RPL). *Biomedicine & Pharmacotherapy*, Volume 92, August 2017, Pages 1095-1102.
  - 21- Shadi Eghbal-Fard, Mehdi Yousefi, Hanieh Heydarlou, Majid Ahmadi, Simin Taghavi, Aliakbar Movasaghpour, Farhad Jadidi-Niaragh, Bahman Yousefi, Sanam Dolati, Mohammad Hojjat-Farsangi, Reza Rikhtegar, Mohammad Nouri, **Leili Aghebati-Maleki**. The imbalance of Th17/Treg axis involved in the pathogenesis of preeclampsia. *J Cell Physiol*. 2019 Apr;234(4):5106-5116.
  - 22- Hanieh Heydarlou , Shadi Eghbal-Fard , Majid Ahmadi, **Leili Aghebati-Maleki** , Sanam Dolati, Ali Akbar Movassaghpour, Farhad Jadidi-Niaragh , Shahla Danaei , Farzaneh Mahmoudilafout, Mehdi Talebi, Shahrzad Rahimifar, Mehdi Yousefi Investigation of follicular helper T cells, as a novel player, in preeclampsia. *J Cell Biochem*. 2019 Mar;120(3):3845-3852. *J Cell Physiol*. 2019 Mar;234(3):2229-2240.
  - 23- Majid Ahmadi, Samaneh Abdolmohammadi-Vahid, Mahnaz Ghaebi, **Leili Aghebati-Maleki**, Sanam Dolati, Laya Farzadi, Aliyeh Ghasemzadeh, Kobra Hamdi, Vahid Younesi, Mohammad Nouri & Mehdi Yousefi. Regulatory T cells improve pregnancy rate in RIF patients after additional IVIG treatment. *Systems Biology in Reproductive Medicine* (2017) 1-10.
  - 24- Abdolmohammadi Vahid, S. Ghaebi, M., Ahmadi, M., Nouri, M., Danaei, S. **Aghebati-Maleki**, L. Mousavi Ardehaie, R., Yousefi, B., Hakimi, P., Hojjat-Farsangi, M. Rikhtegar, R. Yousefi, M. Altered T-cell subpopulations in recurrent pregnancy loss patients with cellular immune abnormalities. *Journal of Cellular Physiology* Volume 234, Issue 4, April 2019.
  - 25- Roza Motavalli, Jalal Etemadi, Mohammad Sadegh Soltani-Zangbar, Mohamad-Reza Ardalan, Houman Kahroba, Leila Roshangar, Mohammad Nouri, **Leili Aghebati-Maleki**, Farhad Motavalli Khiavi, Sima Abediazar, Amir Mehdizadeh, Mohammad Hojjat-Farsangi, Ata Mahmoodpoor, Hossein Samadi Kafil, Mohamadali Zolfaghari, Javad Ahmadian Heris, Mehdi Yousefi, Altered Th17/Treg ratio as a possible mechanism in pathogenesis of idiopathic

- membranous nephropathy, Cytokine, Volume 141, 2021, <https://doi.org/10.1016/j.cyto.2021.155452>.
- 26- A Rozita Abolhasan, Balal Khalilzadeh, Hadi Yousefi, Sahar Samemaleki, Forough Chakari-Khiavi, Farzaneh Ghorbani, Ramin Pourakbari, Amin Kamrani, Alireza Khataee, Tannaz Sadeghi Rad, Mohammad Reza Rashidi, Mehdi Yousefi, **Leili AghebatiMaleki**. Ultrasensitive and label free electrochemical immunosensor for detection of ROR1 as an oncofetal biomarker using gold nanoparticles assisted LDH/rGO nanocomposite. *Sci Rep* 11, 14921 (2021). <https://doi.org/10.1038/s41598-021-94380-5>.
- 27- Farzaneh Ghorbani, Farzaneh Fathi, **Leili Aghebati-Maleki**, Rozita Abolhasan, Reza Rikhtegar, Jafar Ezzati Nazhad Dolatabadi, Zohreh Babaloo, Balal Khalilzadeh, Majid Ebrahimi-Warkiani, Zahra Sharifzadeh, Mohammad-Reza Rashidi, Mehdi Yousefi. Kinetic and thermodynamic study of c-Met interaction with single chain fragment variable (scFv) antibodies using phage-based surface plasmon resonance. *Eur J Pharm Sci.* 2020 Jul 1; 150:105362. doi: 10.1016/j.ejps.2020.105362. Epub 2020 May 13.
- 28- Ata Mahmoodpoor, Maryam Hosseini, Sadegh Soltani-Zangbar, Sarvin Sanaie, **Leili Aghebati-Maleki**, Seyed Hadi Saghaleini, Zohreh Ostadi, Mahsa Hajivalili, Zhinous Bayatmakoo, Mostafa Haji-Fatahaliha, Zohreh Babaloo, Sima Shahmohammadi Farid, Javad Ahmadian Heris, Leila Roshangar, Reza Rikhtegar, Hossein Samadi Kafil, Mehdi Yousefi, Reduction and exhausted features of T lymphocytes under serological changes, and prognostic factors in COVID-19 progression, *Mol. Immunol.*, Volume 138, 2021, <https://doi.org/10.1016/j.molimm.2021.06.001>.
- 29- Mohammad Sadegh Soltani-Zangbar, **Leili Aghebati-Maleki**, Mahsa Hajivalili, Mostafa Haji-Fatahaliha, Roza Motavalli, Ata Mahmoodpoor, Hossein Samadi Kafil, Sara Farhang, Ramin Pourakbari, Farhad Jadidi-Niaragh, Leila Roshangar, Javad Ahmadian Heris, Amin Kamrani, Homayoon Siahmansouri, Maryam Hosseini, Abolfazl Miahpour, Oldouz Shareghi-Oskoue, Forough Parhizkar, Mehdi Yousefi. Application of newly developed SARS-CoV2 serology test along with real-time PCR for early detection in health care workers and on-time plasma donation, *Gene Reports*, Volume 23, 2021, <https://doi.org/10.1016/j.genrep.2021.101140>.
- 30- Jalal Etemadi, Shima Bordbar, Mohammad Sadegh Soltani-Zangbar, Mahsa Hajivalili, **Leili Aghebati-Maleki**, Roza Motavalli, Ata Mahmoodpoor, Sima Shahmohammadi-Farid, Sima Abedi Azar, Bahram Niknafs, Leila Roshangar, Zohreh Babaloo, Javad Ahmadian Heris, Maryam Hosseini, Oldouz Shareghi-Oskoue, Forough Parhizkar, Hamid Tayebi Khosroshahi & Mehdi Yousefi (2021) Prevalence of SARS-CoV-2 Specific Antibodies in Asymptomatic Hemodialysis Patients, *Immunological Investigations*, DOI: 10.1080/08820139.2021.1899202.
- 31- Majid Ahmadi, Mehrzad Hajjalilo, Sanam Dolati, Shadi Eghbal-Fard, Hanieh Heydarlou, Mahnaz Ghaebi, Arezou Ghassembaglou, **Leili Aghebati-Maleki**, Hossein Samadi Kafil, Amin Kamrani, Badrossadat Rahnama, Reza Rikhtegar, Mehdi Yousefi. The effects of nanocurcumin on Treg cell responses and treatment of ankylosing spondylitis patients: A randomized, double-blind, placebo-controlled clinical trial. *J Cell Biochem.* 2020



- Jan;121(1):103-110. doi: 10.1002/jcb.28901. Epub 2019 May 9.
- 32- Mehrzad Hajjalilo, Sanam Dolati, Samaneh Abdolmohammadi-Vahid, Majid Ahmadi, Amin Kamrani, Shadi Eghbal-Fard, Arezou Ghassemlou, Amir Valizadeh, Mohammad Hossein Musavi Shenasi, **Leili Aghebati-Maleki**, Hossein Samadi Kafil, Amir Mehdizadeh, Mehdi Yousefi. Nanocurcumin: A novel strategy in treating ankylosing spondylitis by modulating Th17 cells frequency and function. *J Cell Biochem.* 2019.
  - 33- Yoda Yaghoubi, Ali Hassanzadeh, Adel Naimi, Sepehr Abdolahi, Mehdi Yousefi, **Leili Aghebati-Maleki**, Majid Zamani. The Effect of Platelet Lysate on Expansion and Differentiation Megakaryocyte Progenitor Cells from Cord Blood CD34+ enriched Cells. *Iran J Ped Hematol Oncol.* 2021; 11 (3) :172-182. URL: <http://ijpho.ssu.ac.ir/article-1-599-en.html>
  - 34- Majid Zamani, Yoda Yaghoubi, Adel Naimi, Ali Hassanzadeh, Ramin Pourakbari, **Leili Aghebati-Maleki**, Roza Motavalli, Afsoon Aghlmandi, Amir Mehdizadeh, Mehdi Nazari, Mehdi Yousefi, Ali Akbar Movassaghpour. Humanized Culture Medium for Clinical-Grade Generation of Erythroid Cells from Umbilical Cord Blood CD34+ Cells. *Adv Pharm Bull,* 2021, 11(2), 335-342. doi: 10.34172/apb.2021.031.
  - 35- Samira Asghari, Amir Valizadeh, **Leili Aghebati-Maleki**, Mohammad Nouri, Mehdi Yousefi. Endometriosis: Perspective, lights, and shadows of etiology. *Biomedicine and Pharmacotherapy,* 2018. 106, pp. 163-174. DOI: 10.1016/j.biopha.2018.06.109
  - 36- Majid Ahmadi, Mehdi Yousefi, Sanaz Abbaspour-Aghdam, Sanam Dolati, **Leili Aghebati-Maleki**, Shadi Eghbal-Fard, Alireza Khabbazi, Davood Rostamzadeh, Shahriar Alipour, Mahdi Shabani, Mohammad Nouri, Zohreh Babaloo. Disturbed Th17/Treg balance, cytokines, and miRNAs in peripheral blood of patients with Behcet's disease. *J Cell Physiol.* 2019 Apr;234(4):3985-3994.
  - 37- Jafari R, Majidi Zolbanin N, Majidi J, Atyabi F, Yousefi M, Jadidi-Niaragh F, **Aghebati-Maleki L**, Shanehbandi D, Soltani Zangbar MS, Rafatpanah H. Anti-Mucin1 Aptamer-Conjugated Chitosan Nanoparticles for Targeted Co-Delivery of Docetaxel and IGF-1R siRNA to SKBR3 Metastatic Breast Cancer Cells. *Iran Biomed J.* 2019 Jan;23(1):21-33
  - 38- Sanam Dolati, Majid Ahmadi, **Leili Aghebati Maleki**, Abbas Nikmaram, Farough Marofi, Reza Rikhtegar, Hormoz Ayromlou, Mehdi Yousefi. Nanocurcumin is a potential novel therapy for multiple sclerosis by influencing inflammatory mediators. *Pharmacol Rep.* 2018 Dec;70(6):1158-1167.
  - 39- Naime Majidi Zolbanin, Reza Jafari, Jafar Majidi, Fatemeh Atyabi, Mehdi Yousefi, Farhad Jadidi-Niaragh, **Leili Aghebati-Maleki**, Dariush Shanehbandi, Mohammad-Sadegh Soltani Zangbar, Alireza Mohajjel Nayebi. Targeted co-delivery of docetaxel and cMET siRNA for treatment of mucin1 overexpressing breast cancer cells. *Advanced Pharmaceutical Bulletin,* 2018. 8(3), pp. 383-393.

- 40- Sanam Dolati, Majid Ahmadi, Mohammad Khalili, Ali Akabar Taheraghdam, Homayoon Siahmansouri, Zohreh Babaloo, **Leili Aghebati-Maleki**, Farhad Jadidi-Niaragh, Vahid Younesi, Mehdi Yousefi. Peripheral Th17/Treg imbalance in elderly patients with ischemic stroke. *Neurological Sciences* .2018.
- 41- Sanam Dolati, Majid Ahmadi, Reza Rikhtegar, Zohreh Babaloo, Hormoz Ayromlou, **Leili Aghebati-Maleki**, Mohammad Nouri, Mehdi Yousefi. Changes in Th17 cells function after nanocurcumin use to treat multiple sclerosis. *International Immunopharmacology*.2018.
- 42- Hajar Shali, Mahdi Shabani, Fatemeh Pourgholi, Mahsa Hajivalili, **Leili Aghebati-Maleki**, Farhad Jadidi-Niaragh, Behzad Baradaran, Ali Akbar, Movassaghpour Akbari, Vahid Younesi & Mehdi Yousefi. Co-delivery of insulin-like growth factor I receptor specific siRNA and doxorubicin using chitosan-based nanoparticles enhanced anticancer efficacy in A549 lung cancer cell line. *Artificial Cells, Nanomedicine, and Biotechnology*. 2018 Mar;46(2):293-302.
- 43- Amir Afkham, **Leili Aghebati Maleki**, Homayoon Siahmansouri, Sanam Sadreddini, Majid Ahmadi, Sanam Dolati, Nahid Manafi Afkham, Parvin Akbarzadeh, Farhad Jadidi-Niaragh, Vahid Younesi, Mehdi Yousefi. Chitosan (CMD)-mediated co-delivery of SN38 and Snail-specific siRNA as a useful anticancer approach against prostate cancer. *Pharmacological Reports*. 2017.
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## **Review Papers**

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**Books**

- 1- "Recent advances in immunotherapeutic approaches for recurrent reproductive failure", IntechOpen, 2022
- 2- "Comprehensive immunology for immunology student" Khalili publication, Tehran, Iran, 2014.
- 3- "Comprehensive immunology for non immunology student" Khalili publication, Tehran, Iran, 2014.

**Conferences, Seminars and Talks:**

1	Evaluating exhausted CD4 and CD8 T lymphocytes in different trimesters during normal pregnancy	18th International Congress of Immunology 27 November - 2 December 2023   Cape Town, South Africa
2	Immunomodulatory effect of vaginal probiotics and its impact on patients with repeated implantation failure (RIF)	18th International Congress of Immunology 27 November - 2 December 2023   Cape Town, South Africa
3	Cancer combination therapies with Sorafenib and anti-miR-222 in renal cell carcinoma	16th International Congress of Immunology and Allergy" (ICIA2023) 27-29 April 2023/ Tehran/Iran
4	Effect of small interfering RNA (siRNA)-mediated silencing of PD-L1 on BCL-2 expression in HN5 Cell Line	16th International Congress of Immunology and Allergy" (ICIA2023) 27-29 April 2023/ Tehran/Iran
5	Correlation between PD-1 inhibition and c-MYC expression in oral squamous cell carcinoma cell line (HN5)	16th International Congress of Immunology and Allergy" (ICIA2023) 27-29 April 2023/ Tehran/Iran
6	The effect of PD-L1 blockade on hepatocellular carcinoma cells apoptosis	1st International and the 21st national congress of the Iranian society of medical oncology and Hematoogy/19-22 Oct,2022/Tabriz/Iran
7	The effect of siRNA-mediated PD-L1 blockade on the viability, proliferation, and migration of hepatocellular carcinoma cells	1st International and the 21st national congress of the Iranian society of medical oncology and Hematoogy/19-22 Oct,2022/Tabriz/Iran
8	Restoration of miR-193a expression suppresses Osteosarcoma cancer cell proliferation, viability, and migration	15th Virtual International Congress of Immunology and Allergy ICIA2021/27-29th January/ Ahvaz /Iran
9	The effect of miR-142a-3p replacement and Taxol on inhibition of proliferation, metastasis and apoptosis in osteosarcoma	15th Virtual International Congress of Immunology and Allergy ICIA2021/27-29th January/ Ahvaz /Iran
10	Implications for glycosylated compounds and their anti-cancer effects	15th Virtual International Congress of Immunology and Allergy ICIA2021/27-29th January/ Ahvaz /Iran

11	Preeclampsia-Exosomes: Their role in Th17/Treg axis imbalance in healthy pregnant women	15th Virtual International Congress of Immunology and Allergy ICIA2021/27-29th January/ Ahvaz /Iran
12	Early stage evaluation of colon cancer using tungsten disulfide quantum dots and bacteriophage nano-biocomposite as an efficient electrochemical platform	15th Virtual International Congress of Immunology and Allergy ICIA2021/27-29th January/ Ahvaz /Iran
13	Cell therapy in female infertility-related diseases: Emphasis on recurrent miscarriage and repeated implantation failure	15th Virtual International Congress of Immunology and Allergy ICIA2021/27-29th January/ Ahvaz /Iran
14	Evaluation of anti-tumor potential of Bacillus Calmette-Guerin, Thalidomide angiogenesis inhibitor, Heat shock proteins and Bifidobacterium simultaneousness on Fibrosarcoma Tumor in Balb/c Mice	11th International Congress of Immunology & Allergy of Iran/ April 26-29, 2012. Tehran
15	Induction of programmed cell death (apoptosis) in cancer cell lines WEHI-164 and PC3 by metanolic extract of chelidonium majus	11th International Congress of Immunology & Allergy of Iran/ April 26-29, 2012. Tehran
16	Super monoclonal related to large scale production of anti-human IgG in peritoneum of Balb/c Mice	11th International Congress of Immunology & Allergy of Iran/ April 26-29, 2012. Tehran
17	Super anti-human IgG monoclonal with optical density over than 3	11 <sup>th</sup> International Congress of Immunology & Allergy of Iran/ April 26-29, 2012. Tehran
18	Risk factors of asthma in preschool children	15 <sup>th</sup> International congress of Immunology. August.2013, Milan, Italy/ August.2013 Milan, Italy
19	Anti-tumor effects of heat shock proteins, Bacillus Calmette-Guérin, angiogenesis inhibitor, Bifidobacterium and Immuno-Modulator Drug on fibrosarcoma in mice	15 <sup>th</sup> International congress of Immunology. August.2013, Milan ,Italy/ August.2013, Milan, Italy
20	Production and characterization of murine monoclonal antibodies against human synthetic peptide of CD34	15 <sup>th</sup> International congress of Immunology. August.2013, Milan, Italy/ August.2013, Milan, Italy
21	Mass-production and characterization of anti-human CD34 monoclonal antibody in peritoneum of BALB/c mice	15 <sup>th</sup> International congress of Immunology. August.2013, Milan, Italy/ August.2013, Milan, Italy
22	Generation and characterization of anti-CD34 monoclonal antibodies reactive with hematopoietic stem cells.	21 <sup>st</sup> International Iranian congress of physiology and pharmacology, / August2013, Tabriz,Iran
23	Production and Purification of polyclonal antibody against attenuated and wild type leishmania infantum in dog.	12 th International Congress of Immunology & Allergy of Iran, Milad Tower-Tehran-Iran. 29 th April -2th May, 2014
24	Production and characterization of a monoclonal antibody against CD11b.	12 th International Congress of Immunology & Allergy of Iran, Milad Tower-Tehran-Iran. 29 th April -2th May, 2014
25	Production of anti-CD14 monoclonal antibody using synthetic peptide of human CD14.	12 th International Congress of Immunology & Allergy of Iran, Milad Tower-Tehran-Iran. 29 th April -2th May, 2014

26	Large Scale Generation and Characterization of Anti-Human IgA Monoclonal Antibody in Ascetic Fluid of Balb/c Mice.	12 th International Congress of Immunology & Allergy of Iran / Milad Tower-Tehran-Iran. 29 th April -2th May, 2014
27	Production and Characterization of Murine Monoclonal Antibodies against Synthetic Peptide of CD34.	12 th International Congress of Immunology & Allergy of Iran, Milad Tower-Tehran-Iran. 29 th April -2th May, 2014.
28	Purification of mouse IgG2a subclass.	12 th International Congress of Immunology & Allergy of Iran, Milad Tower-Tehran-Iran. 29 th April -2th May, 2014.
29	Evaluation of a simple and rapid protocol for purification of mouse IgG1.	12 th International Congress of Immunology & Allergy of Iran, Milad Tower-Tehran-Iran. 29 th April -2th May, 2014.
30	Preparation and Evaluation of Polyclonal Anti Body Against ExotoxinA- Flagellin Fusion Protein of Pseudomonas aeruginosa in Rabbit.	12 th International Congress of Immunology & Allergy of Iran, Milad Tower-Tehran-Iran. 29 th April -2th May, 2014.
31	Effects of Some Natural Immunomodulatory Compounds in Combination with Thalidomide on Survival Rate and Tumor Size in Fibrosarcoma-Bearing Mice	4th European Congress of Immunology - ECI 2015 - Vienna, Austria
32	A simple and practical method for increasing of proliferation the mesenchymal stem cells in mouse	4th European Congress of Immunology - ECI 2015 - Vienna, Austria
33	The effect of heavy chain carboxy terminal (HCC) subdomain of tetanus toxin on purified human T lymphocytes	4th European Congress of Immunology - ECI 2015 - Vienna, Austria
34	Production of Anti-CD14 Monoclonal Antibody Using Synthetic Peptide of Human CD14 as Immunizing Antigen	4th European Congress of Immunology - ECI 2015 - Vienna, Austria
35	Production and characterization of mouse monoclonal antibody against human IgA	4th European Congress of Immunology - ECI 2015 - Vienna, Austria
36	Evaluation of the CCNE2 Gene Polymorphism in Iranian Patients with breast cancer	13th International Congress of Immunology & Allergy /Tabriz/ Iran / 26th- 29th April, 2016
37	Specific role of the monoclonal antibody for detection of Glomalin-Pb complex, a strategy for supplying and promoting of the food quality and security	13th International Congress of Immunology & Allergy /Tabriz/ Iran / 26th- 29th April, 2016
38	Purification of polyclonal antibody from dogs infected with Leishmania infantum.	13th International Congress of Immunology & Allergy /Tabriz/ Iran / 26th- 29th April, 2016 .
39	Development and functional evaluation of anti-ROR1 scFv on a panel of B- CLL cells	13th International Congress of Immunology & Allergy /Tabriz/ Iran / 26th- 29th April, 2016 .
40	Isolation of Anti-IGF1R Single Chain Variable Fragment Antibodies by Phage Display Technology	13th International Congress of Immunology & Allergy /Tabriz/ Iran / 26th- 29th April, 2016

41	Rapid and simple digesting human IgG with pepsin and one step purification F(ab') <sub>2</sub> in large scale	13th International Congress of Immunology & Allergy /26th- 29th April, 2016 Tabriz-Iran.
42	A Simple Method for Production of F(ab') <sub>2</sub> Prepared by Pepsin Digestion of Rabbit Anti Human IgG,	13th International Congress of Immunology & Allergy /26th- 29th April, 2016 Tabriz-Iran.
43	Isolation of single chain variable fragment (scFv) specific for Frizzled 7 (Fzd7) receptor from human single fold scFv libraries	13th International Congress of Immunology & Allergy / 26th- 29th April, 2016 Tabriz-Iran.
44	Effects of IL17RB siRNA and doxorubicin dual delivery by chitosan nanoparticles on cytotoxicity, gene expression, apoptosis and migration of MDAMB361 Breast cancer cell line-	13th International Congress of Immunology & Allergy / 26th- 29th April, 2016 Tabriz-Iran.
45	Evaluation of the synergistic effect of IL-4 and integrin $\alpha V\beta 5$ on Monocytes apoptosis in giant cell granuloma patients	13th International Congress of Immunology & Allergy / 26th- 29th April, 2016 Tabriz-Iran.
46	Purification of human serum albumin using Affinity Chromatography	13th International Congress of Immunology & Allergy / 26th- 29th April, 2016 Tabriz-Iran.
47	Purification of bovine serum albumin using immunoaffinity chromatographic	13th International Congress of Immunology & Allergy / 26th- 29th April, 2016 Tabriz-Iran.
48	Evaluation of Preventive Effect of polyclonal antibody against ExotoxinA-Flagellin Pseudomonas aeruginosa infections in mice	13th International Congress of Immunology & Allergy / 26th- 29th April, 2016 Tabriz-Iran.
49	Production and Characterization of Anti-ROR1 scFvs by Phage Display Technology	The 9th International Congress of Laboratory and Clinic. The 2th National Congress of Basic Medical Sciences & Knowledge-based Production/(21-24 February2017)
50	Scale up Production and Characterization of Anti Human CD Markers Monoclonal Antibodies in Ascetic Fluid of Balb/c Mice,	The 9th International Congress of Laboratory and Clinic The 2th National Congress of Basic Medical Sciences & Knowledge-based Production 3-6 1395 اسفند (21-24 February2017)
51	Induction of anti-proliferative and apoptotic effects by anti-ROR1 receptor single chain antibodies in cancer cells	The 9th International Congress of Laboratory and Clinic The 2th National Congress of Basic Medical Sciences & Knowledge-based Production 3-6 1395 اسفند (21-24 February2017)
52	Anti-proliferative and apoptotic effects of novel anti-ROR1 single chain antibodies in hematological malignancies	The Third International Congress of Immunology, Asthma & Allergy, 15-17 February, 2017.
53	Isolation and characterization of anti ROR1 single chain fragment variable,	The Third International Congress of Immunology, Asthma & Allergy, 15-17 February, 2017.
54	Development of a Hybridoma Cell Line Secreting Monoclonal Antibody against CD45	1st National Festival and International Congress on Stem Cell and Regenerative Medicine (ICSC2016), Tehran, May 19-21, 2016.

55	Diagnostic test for ovarian cancer: Development of a Hybridoma Cell Line Secreting Monoclonal Antibody against tumor marker (CA-125),	The 5th Iranian International Conference on Women's Health, Shiraz, Iran, 18 and 19, 2016.
56	Study of miR-21 & MMP-3 Expression in Metastatic Breast Cancer Cell Line after Suppression of Bach1 Gene Expression by a Small Interference RNA (siRNA)	International Tehran Breast Cancer Congress (TBCC9) Original Article 175 18-20 October 2017
57	Targeting receptor tyrosine kinases (RTKs): Selection and evaluation of a specific scFv antibody against ROR1,	International Congress of Immunology, Asthma and Allergy The First Symposium of Food and Drug Allergy, Mashhad 6 May 2016.
58	Development and characterization of monoclonal antibodies against leukocyte common antigen towards using in basic research.	4th congress on Navel & Innovative laboratory Technologies, 26-27 Oct 2016/Iran
59	Circulating cell-free DNA as a Potential Biomarker in Diagnosis of Cancer	4th congress on Navel & Innovative laboratory Technologies, 26-27 Oct 2016.Iran
60	Macrophage repolarization using PLGA-PEG nanoparticles containing Chrysin: possible application in regenerative medicine,	14th international congress of Immunology and Allergy, Tehran, Iran, 2018 (ICIA2018).
61	TH17 and Treg frequencies in treatment of RPL women with immune abnormalities after IVIG therapy,	14th international congress of Immunology and Allergy, Tehran, Iran, 2018 (ICIA2018).
62	Effect of IVIG on exhausted T cell and exhausted regulatory T cells in women with recurrent miscarriage.	14th international congress of Immunology and Allergy, Tehran, Iran, 2018 (ICIA2018).
63	Preserving Th17/Treg Balance to be Considerable in the Pathogenesis of Behçet's Disease.	14th international congress of Immunology and Allergy, Tehran, Iran, 2018 (ICIA2018).
64	A simple and practical method for increasing of proliferation the mesenchymal stem cells in mouse.	1 st International and 5 th national congress on stem cells , 15-17 januray , 2015 , Tehran,Iran
65	The efforts and scientific achievements for the diagnosis and treatment of chronic lymphocytic leukemia with targeting ROR1	10 <sup>th</sup> International congress of laboratory and Clinic/2018 January 31 , Tehran/Iran

66	The potential role of IL-4 and receptor activator of NF- $\kappa$ B ligand in the pathogenesis of giant cell granuloma	10th International congress of laboratory and Clinic/2018 January 31 , Tehran/Iran
67	Simple method for Isolation and characterization of single chain fragment variable (scFv) antibodies	10th International congress of laboratory and Clinic/2018 January 31 , Tehran/Iran
68	Exosomes As A Promising Approach In Cancer Diagnosis And Therapy	11th International congress of laboratory and Clinic/16-18 January2019, Tehran/Iran
69	Nanobodies: Emerging Tools For Research, Diagnostics And Therapy	11th International congress of laboratory and Clinic/16-18 January2019, Tehran/Iran
70	Increased serum immunoglobulin free light chains levels associated with poor prognosis in patient's rheumatoid arthritis	12th International congress of laboratory and Clinic/12-14 December 2019, Tehran/Iran
71	Implications of exosomes as diagnostic and therapeutic strategies in cancer	12th International congress of laboratory and Clinic/12-14 December 2019, Tehran/Iran
72	The potential of exosomes in the therapy of osteoarthritis	12th International congress of laboratory and Clinic/12-14 December 2019, Tehran/Iran
73	Intravenous immunoglobulin (IVIG) modulates natural killer cell and improves live birth rate in women with recurrent pregnancy loss	7th Yazd International Congress and Student Award in Reproductive Medicine with 2nd Congress of Reproductive Genetics and Congress of Reproductive Immunology/2017 28-30 April /Yazd/Iran
74	Nanoparticles and targeted drug delivery: as promising therapeutic approaches in cancer therapy	6th National & 2nd International Congress on Novel and Innovative Laboratory Technologies/17-19 October 2018
75	Phage display as a promising approach for vaccine development	6th National & 2nd International Congress on Novel and Innovative Laboratory Technologies/17-19 October 2018

### Teaching experience

**2013– Present** *Immunology*, Faculty of Medicine and Pharmacy, Tabriz University of Medical Sciences, Tabriz, Iran. (for medical students, Ph.D Microbiology and Biotechnology students, MSc Immunology students, pharmacy and Dentist students and so on )



**Students Advised**

	Title	Student	Supervi sor	Advisor	Year		course
1	<b>The expression level of the Peptidyl arginine deiminase (PAD4) in women with recurrent implantation failure (RIF) compared to healthy individuals</b>	Hamed Olfat		√	2023	Medical Student	MD
2	<b>Evaluation of gene and protein expression and also function of PAD4 enzyme in patients with recurrent miscarriage compared to the control group</b>	Lida Aslanian Kalkhoran	√		2023	Ph.D	Immuno logy
3	<b>Investigating the effect of reducing the expression of proteins involved in the endoplasmic reticulum stress pathway on the expression of inhibitory immune checkpoints of monocyte-derived dendritic cells under stress.</b>	Negin Karamali	√		2023	Ph.D	Immuno logy
4	<b>The effect of postbiotics derived from native probiotics on biofilm formation, peptide profiling, antibiotic resistance, and expression of virulence genes of Escherichia coli and Salmonella typhimurium</b>	Mahdi Asghari Ozma		√	2022	Ph.D	Bacterio logy
5	<b>Evaluation of the effect of PLAC-1 gene knock down with specific siRNA on immune system responses changes in the tumorized mouse with CT-26 Cell line</b>	mojgan esparvarinha	√		2023	Ph.D	Immuno logy
6	<b>Investigation of chemotherapy drugs effect on immune checkpoints expression in the</b>	Arezou Jafari		√	2023	Medical Student	MD

	<b>melanoma cancer cell line</b>						
7	<b>The effects of T CD8-derived exosomes obtained from healthy individuals on the expression of autophagic genes in the MOLT-4 cell line</b>	Alireza fagiri beyrami		√	2023	MSc	Immunology
8	<b>Evaluation of changes in Treg cells and exhausted T lymphocytes in patients with sepsis with positive culture in comparison with the patients with negative culture</b>	maria bahramian		√	2022	Medical Student	MD
9	<b>The impact of COVID-induced autoantibodies in success rate of embryo implantation in patients with infertility</b>	hamideh zareh		√	2022	Medical Student	MD
10	<b>Investigation of prymethamine treated monocyte-derived dendritic cells pulsed with breast cancer cell lysate effects on the responses of autologous peripheral blood mononuclear cells</b>	Sepideh Sohrabi		√	2022	MSc	Immunology
11	<b>Evaluating of miR-10a expression and its relation with TGF-<math>\beta</math> and IL-10 levels in SARS-CoV-2 patients compared to healthy controls</b>	Pezhman Damvar	√		2022	Medical Student	MD
12	<b>Evaluating of miR-155 expression and its relation with frequency of Th17 lymphocytes and IL-17, IL-21, and IL-6 levels in Multiple sclerosis patients compared to healthy controls</b>	sayed pedram amanollahi kilaneh	√		2022	Medical Student	MD
13	<b>Evaluating of miR-10a expression and its relation with regulatory T lymphocytes frequency and TGF-<math>\beta</math> and IL-10 levels in Multiple sclerosis</b>	Ali Khakpour	√		2022	Medical Student	MD

	<b>patients compared to healthy controls</b>						
14	<b>The effect of Afinitor (Everolimus) treatment on the expression of inhibitory immune checkpoint molecules in monocyte-derived dendritic cells</b>	Mahshid Kafshdouz		√	2022	Medical Student	MD
15	<b>Simultaneous efficacy of Avastin and Garciniamorla extract in anticancer activity on lung cancer cell lines</b>	Mahdi Efrkharis	√		2022	Medical Student	MD
16	<b>Simultaneous efficacy of Doxorubicin hydrochloride and Garcinia morla extract in anticancer activity on lung cancer cell lines</b>	behnam ghaderian	√		2022	Medical Student	MD
17	<b>Evaluation of the effect of doxorubicin on PD-L1 checkpoint immune expression and related miRNAs in osteosarcoma cancer cell line</b>	Aria Fallah	√		2022	Medical Student	MD
18	<b>Investigation of chemotherapy drugs effect on immune checkpoints expression in the prostate cancer cell line</b>	Maedeh Alipour		√	2022	MSc	Immunology
19	<b>Evaluation of IGF-1, CD39, CD73 and related miRNAs level in patients with Behcet's syndrome compared to healthy controls</b>	Robab Gharagehdagi	√		2022	Medical Student	MD
20	<b>Evaluation of the immune checkpoint factors in patients with Behcet's syndrome compared to healthy controls</b>	Ali Jeddi	√		2022	Medical Student	MD
21	<b>The evaluation of PD-1 and TIM-3 expression and related miRNAs in women with recurrent pregnancy loss compared to healthy pregnant</b>	Saro Bromand	√		2022	Medical Student	MD

	<b>women</b>						
22	<b>Evaluation of FCRL1-6 expression in PBMCs of patients with Covid 19 and its relationship with disease severity in these patients</b>	Reza Najafi	√		2022	Medical Student	MD
23	<b>Evaluation of the functional properties of postbiotics derived from native probiotics isolated from food products in vitro</b>	Hossein Behradfar	√		2022	Medical Student	MD
24	<b>Relationship between MRI perfusion parameters and KI67 expression in breast cancer: A systematic review and meta-analysis</b>	Peyman Tabnak	√		2022	Medical Student	MD
25	<b>The gene expression analysis of colorectal cancer cells with a system biology approach.</b>	Ahmad Rafi		√	2022	Medical Student	MD
26	<b>Investigation of the relationship between genotypes of the Echinococcus granulosus larval stage and clinical features of hydatid cysts in patients admitted to Emam reza hospital of Tabriz city</b>	Sahel Ghahremani	√		2022	Medical Student	MD
27	<b>Investigation of antimicrobial effect of postbiotics derived from Bifidobacterium lactis (Bb12) on Streptococcus mutans and determination of physicochemical, rheological and sensory properties of chewing gum containing the mentioned postbiotics</b>	Esmael Mirzakhani		√	2022	MSc	Nutrition science
28	<b>Preoperative lymph node metastasis prediction with CT-scan based Radiomics in gastric cancer patients; a systematic review</b>	Zanyar Haji esmil poor	√		2022	Medical Student	MD

29	<b>The effects of Glatiramer acetate on gene expression profile of nicotinic acetylcholine receptors in relapsing remitting multiple sclerosis (RRMS) patients</b>	Aysan Talebi		√	2022	Medical Student	MD
30	<b>Evaluation of Th17 cell frequency and expression of microRNAs and Th17 related factors in patients with Premature ovarian failure (POF)</b>	Narges Nouri	√		2021	MSc	Immunology
31	<b>The prevalence of Candida species in gingival crevicular fluid in patients with chronic periodontitis referred to the dental faculty of Tabriz University of Medical Sciences</b>	hossein faraji		√	2021	Medical Student	MD
32	<b>Investigating the impact of CTLA4 silencing on growth and proliferation in HN-5 cell line</b>	Hossein Molapour	√		2021	Medical Student	MD
33	<b>Evaluation of Biological Effects of Postbiotics on the Osteoarthritis</b>	Arash Mohammadi	√		2021	Medical Student	MD
34	<b>Evaluation of the frequency of Treg cells and the expression of microRNAs and development factors of Treg cells in patients with premature ovarian failure (POF)</b>	Oldouz Shareghi	√		2021	MSc	Immunology
35	<b>Evaluation of the effects of nanocurcumin on the secretion of inflammatory and anti-inflammatory cytokines in patients with preeclampsia</b>	leila azhdari habashi	√		2021	Medical Student	MD
36	<b>Evaluation of changes in the expression of molecules of immune checkpoints of Sorafenib -treated</b>	Kamyar Minaei	√		2021	Medical Student	MD

	<b>Hepatocellular carcinoma cell</b>						
37	<b>The effect of CTLA4 silencing on Hepatocellular carcinoma cell survival</b>	mohammad movludi	√		2021	Medical Student	MD
38	<b>Evaluation of apoptosis induced by CTLA4 inhibition in Esophageal cancer cell</b>	mahdi zarei	√		2021	Medical Student	MD
39	<b>The effect of CTLA4 inhibition on cancer cell survival</b>	Najmaddin Pilafkan	√		2021	Medical Student	MD
40	<b>Evaluating the effect of PD-L1 gene silencing on growth , migration and apoptosis in oral squamous carcinoma cell line</b>	aynaz samadnezhad	√		2021	Medical Student	MD
41	<b>Comparison of lymphocyte changes as well as the antiviral study of IFNs-I and the presence of autoantibodies against IFNs-I in severe and mild COVID-19 patients</b>	Mohammad Sadegh Soltani-Zangbar		√	2021	Ph.D	Immuno logy
42	<b>Investigating the impact of PD-L1 silencing on growth and proliferation in kidney cancer</b>	Mozhde Seidimoradi	√		2021	Medical Student	MD
43	<b>Investigating the impact of PD-L1 silencing on apoptosis in liver cancer</b>	Hamed Mahmoudi	√		2021	Medical Student	MD
44	<b>Prevalence of Candida species in neutropenic patients referred to shahid ghazi hospital affiliated to Tabriz University of Medical Sciences and their drug susceptibility pattern to Caspofungin and voriconazole</b>	Hossein Abdollahzadeh		√	2021	Medical Student	MD
45	<b>Hyssop effects on immune system of healthy individuals</b>	Masoumeh Ghasempour		√	2021	Resident	Pediatric ian
46	<b>Investigation of the combined effect of immunotherapy with DCs pulsed with Breast tumor cell lysates and CTLA-4 inhibitor on T cell respons</b>	Mohammad Bakhshivand		√	2021	MSc	Immuno logy

47	<b>Investigation of The combined effect of immunotherapy with DCs pulsed with colorectal tumor cell lysates and CTLA-4 inhibitor on T cell response</b>	Farid Ghorbaninezhad		√	2021	MSc	Immunology
48	<b>Effects of probiotic yeast, <i>Saccharomyces cerevisiae</i> and <i>Saccharomyces boulardi</i> on proliferation and apoptosis of ovarian cancer cells</b>	Arezoo sepehri khameneh	√		2020	Medical Student	MD
49	<b>The evaluation of IL-23 expression in <i>Trichomonas vaginalis</i> infection, in vitro</b>	mahtab mohammadpour dereshgi	√		2020	Medical Student	MD
50	<b>Effect of B7-H6 Gene Expression Suppression and 5-FU drug on Inhibition of Gastric Cancer Cell Growth</b>	katayoun dolatkah		√	2020	MSc	Biology
51	<b>Silencing of C-Myc to increase the sensitivity of acute lymphoblastic leukemia cells to cyclophosphamide</b>	mehrdad khalili dizaji	√		2020	Medical Student	MD
52	<b>Blockade of PI3K in acute lymphoblastic leukemia cells to enhance the impact of cyclophosphamide</b>	yaser valizadeh	√		2020	Medical Student	MD
53	<b>The survey of anticancer effects of postbiotics derived from <i>Lactobacillus casei</i> L431 and <i>Saccharomyces boulardii</i> on HCT-116 cancer and HFF normal cell lines.</b>	Amin Abbasi	√		2020	MSc	Nutrition science
54	<b>The evaluation of CD73, CD39 and HIF-1 <math>\alpha</math> expression in women with preeclampsia compared with healthy pregnant women</b>	Yousef Yousefzadeh		√	2020	Ph.D	Immunology
55	<b>Investigating the impact of NET1 silencing on apoptotic effects of Methotrexate in acute lymphoblastic leukemia</b>	Hamid Hamdi Hajibaba	√		2020	Medical Student	MD

56	<b>Investigating the apoptotic effect of cyclophosphamide in combination with BV6 in acute lymphoblastic leukemia</b>	sina rasoulzadeh	√		2020	Medical Student	MD
57	<b>The combination effect of Immune checkpoint inhibitor and MDSC inhibitor in lung cancer</b>	Elham Baghbani		√	2020	Ph.D	Immunology
58	<b>Evaluation of the Effect of liposomal voriconazole on growth, ergosterol biosynthesis and ERG11, CDR1p and CDR2p genes expression of fluconazole resistant Candida albicans using Real-time PCR technique.</b>	Behnaz Bahari Barooghi	√		2020	Medical Student	MD
59	<b>Effects of probiotic yeast, Saccharomyces cerevisiae and Saccharomyces boulardi on proliferation and apoptosis of breast cancer cells (MDA-MB-231)</b>	amineh keyvani	√		2019	Medical Student	MD
60	<b>The effect of suppression of CD44 gene expression on the sensitization of HL-60 Cells to Daunorubicin</b>	zohreh yaghoubi		√	2019	MSc	Immunology
61	<b>The evaluation of TLR5 expression in the human vaginal epithelial cells infected by Trichomonas vaginalis</b>	SORAYA MOHAMM ADIESFANJANI	√		2019	MSc	Parasitology
62	<b>Evaluation of Salivary Transferrin level in patients with Oral Squamous cell Carcinoma (oscc)</b>	Dorna Abdolzade		√	2019	Medical Student	MD
63	<b>kinetic and thermodynamic study of scFv fragments interaction with c-Met by using phage-based surface plasmon resonance (SPR) method</b>	Farzaneh Ghorbani		√	2018	MSc	Immunology
64	<b>Frequency and development</b>	Ladan		√	2018	Resident	Gynecol



	<b>factors analysis of B cells subsets (Breg, memory B cells, IFN-<math>\gamma</math> producing B cells) in Recurrent Implantation Failure (RIF) patients</b>	Koushaeian					ogy
65	<b>Design and production of anti body-based nanoscale biosensor for detection of ROR-1 biomarker</b>	Rozita Abolhasan	√		2018	MSc	Immuno logy
66	<b>Design and production of phage-based nano scale biosensor for detection of ROR-1 biomarker</b>	Amin Kamrani		√	2018	MSc	Immuno logy
67	<b>The effects of miR-142 replacement on inhibition of proliferation and migration in osteosarcoma cell line</b>	parastoo shabani	√		2018	MSc	Genetics
68	<b>The effect of miR-193a replacement on inhibition of proliferation and migration in osteosarcoma cell line</b>	sama izadpanah	√		2018	MSc	Genetics
69	<b>Inflammation Factors and Oxidative Stress in Recurrent implantation failure (RIF) Patients With and Without Metabolic Syndrome</b>	Golshan Sheikhansari	√		2018	MSc	Immuno logy
70	<b>Investigation of the effect of siRNA molecules against CD133 on the apoptosis, proliferation, and migration in the prostate</b>	Marjan aghajani		√	2017	MSc	Immuno logy

## **OTHERS**

### **Professional Experiences**

- Immunological techniques: such as MTT, TUNEL, cytokine assay, western blotting, ELISA, production of monoclonal antibody, Phage display technique ...
- *Immunofluorescence* and Flow cytometry.
- Standard molecular biology techniques including: DNA and RNA extraction, PCR, Real Time PCR, gene Silencing by siRNA and shRNA, microRNA, RT-PCR Cloning, Expression
- Biochemistry techniques: PAGE, SDS-PAGE, purification techniques including: affinity chromatography, Ion exchange, Gel filtration
- Microbiology techniques including: culture of bacteria
- Animal cell culture technology including Isolation and culture of primary cells, cell line culture, Passage, Transformation, Transfection, Animal manipulation: Immunization, creating Tumor, Immunotherapy of Tumors