

CURRICULUM VITAE

Fereshteh Mehdipour

(Last update: November 20, 2023)

Shiraz University of Medical Sciences
School of Medicine,
Shiraz Institute for Cancer Research
Shiraz, Iran
PO. Box 71345-3119
FAX: (00)98-713-2304952
TEL:0098-713 2303687
mehdipourf@sums.ac.ir

PERSONAL

Date of Birth: 20.3.1981
Nationality: Iranian
Languages: English (Proficient), Persian (Native)

QUALIFICATIONS:

MD (Medicine, Shiraz University of Medical Sciences): 2000-2007
Ph.D (Medical Immunology, Shiraz University of Medical Sciences): 2010-2016

Current Position: Assistant Professor of Immunology, Immune Regulation Lab, Shiraz Institute for Cancer Research, Shiraz University of Medical Sciences, Shiraz, Iran, 2016–present

TEACHING EXPERIENCES:

- 1- Techniques in immunology (pharmacy students)
- 2- Basic immunology (midwifery students)
- 3- Basic immunology (nursing students)
- 4- Medical immunology (students of medicine)
- 5- Advanced Immunology (Ph.D students of immunology)
- 6- Basic immunology (Ph.D students of tissue engineering)
- 7- Basic immunology (Ph.D students of cell therapy)
- 8- Basics of flow cytometry and cell culture (Ph.D students)

Techniques:

1. Cell culture
2. Stem cell culture
3. Cell separation by magnetic beads (MACS)
4. Flow cytometry
5. ELISA
6. ELISPOT
7. ShRNA transfection (by lipofectamine)
8. Immunofluorescence Assay (IFA)

Publications:

1. **Mehdipour F**, Malekzadeh M, Talei AR, Ghaderi A. Decreased serum level of Interleukin-19 in Iranian patients with breast cancer. *Middle East Journal of Cancer*; October 2015; 6(4): 203-209
2. **Mehdipour F**, Razmkhah M, Hosseini A, Bagheri M, Safaei A, Talei AR, Ghaderi A. Increased B regulatory phenotype in non-metastatic lymph nodes of node positive breast cancer patients. *Scandinavian Journal of Immunology*. 2016 Mar; 83(3):195-202.
3. Jafarinia M*, **Mehdipour F***, Hosseinzadeh M, Hosseini SV, Ghahramani L, Ghaderi A. Determination of a CD4+CD25-FoxP3+ T cells subset in tumor draining lymph nodes of colorectal cancer secreting IL-2 and IFN- γ . *Tumor Biology*. 2016 November; 37(11):14659-14666. (* Sharing first authorship)
4. **Mehdipour F**, Razmkhah M, Rezaeifard S, Bagheri M, Talei AR, Ghaderi A. Mesenchymal stem cells induced anti-inflammatory features in B cells from breast tumor draining lymph nodes. *Cell Biology International*. 2018 December; 42(12):1658-1669.
5. **Mehdipour F**, Razmkhah M, Faghih Z, Bagheri M, Talei AR, Ghaderi A. The significance of cytokine-producing B cells in breast tumor-draining lymph nodes. *Cellular Oncology*. 2019 June; 42(3):381-395.
6. Ghods A, Ghaderi A, Shariat M, Talei AR, **Mehdipour F**. TNFR2 but not TNFR1 is the main TNFR expressed by B and T lymphocytes in breast cancer draining lymph nodes. *Immunology Letters*. 2019 May; 209:36-44.
7. Arabpour M, Ghods A, Shariat M, Talei AR, **Mehdipour F**, Ghaderi A. Correlation of 4-1BBL+ B cells in tumor draining lymph nodes with pathological characteristics of breast cancer. *Iranian Journal of Immunology*. 2019 June; 16(2):108-116.
8. Ghaderi F, **Mehdipour F**, Hosseini A, Talei A, Ghaderi A. Establishment and characterization of a new triple negative breast cancer cell line from an Iranian breast cancer tissue. *Asian Pacific Journal of Cancer Prevention*. 2019 June; 1;20(6):1683-1689.
9. Arabpour M, Rasolmali R, Talei AR, **Mehdipour F**, Ghaderi A. Granzyme B production by activated B cells derived from breast cancer-draining lymph nodes. *Molecular Immunology*. 2019 October; 114:172-178.

10. Norouzian M, **Mehdipour F**, Balouchi Anaraki S, Ashraf MJ, Khademi B, Ghaderi A. Atypical memory and regulatory B cell subsets in tumor draining lymph nodes of head and neck squamous cell carcinoma correlate with good prognostic factors. *Head and Neck Pathology*. 2020 September; 14(3):645-656.
11. Shariati S, **Mehdipour F**, Samadi M, Rasolmali R, Talei AR, Ghaderi A. The balance of regulatory and stimulatory B cell subsets in breast cancer draining lymph nodes correlates with tumor prognostic factors. *Life Sciences*. 2020 September; 257:118117.
12. Zohouri M, **Mehdipour F**, Razmkhah M, Faghih Z, Ghaderi A. CD4⁺CD25⁻FoxP3⁺ T cells: a distinct subset or a heterogeneous population? *International Reviews of Immunology*. 2020 July; doi: 10.1080/08830185.2020.1797005.
13. Shariati S, Ghods A, Zohouri M, Rasolmali R, Talei AR, **Mehdipour F**, Ghaderi A. Significance of TIM-3 expression by CD4⁺ and CD8⁺ T lymphocytes in tumor-draining lymph nodes from patients with breast cancer. *Molecular Immunology*. 2020 December; 128:47-54; doi: 10.1016/j.molimm.2020.10.002.
14. Ghods A, **Mehdipour F**, Shariat M, Talei AR, Ghaderi A. Regulatory T cells express Tumor Necrosis Factor Receptor 2 with the highest intensity among CD4⁺ T cells in the draining lymph nodes of breast cancer. *Molecular Immunology*. 2021 September; 137:52-56. doi: 10.1016/j.molimm.2021.06.013.
15. Ghods A, **Mehdipour F**, Rasolmali R, Talei AR, Ghaderi A. The expression pattern of membranous TNF- α is distinct from its intracellular form in breast cancer-draining lymph nodes. *Clinical Immunology*. 2022 May; 238:109026. doi: 10.1016/j.clim.2022.109026.
16. Balouchi-Anaraki S, Mohammadsadeghi S, Norouzian M, Rasolmali R, Talei AR, **Mehdipour F**, Ghaderi A. Expression of Interleukin-21 and Interleukin-21 receptor in lymphocytes derived from tumor-draining lymph nodes of breast cancer. *Breast Disease*. 2022; 41(1):373-382. doi: 10.3233/BD-220013.
17. Ghods A, **Mehdipour F**, Rasolmali R, Talei AR, Ghaderi A. TNF- α is produced by, but not limited to, T helper 1, 2, and 17 in breast tumor-draining lymph nodes. *Clinical Immunology*. 2022 September; 245:109140. doi: 10.1016/j.clim.2022.109140.
18. Norouzian M, **Mehdipour F**, Ashraf MJ, Khademi B, Ghaderi A. Regulatory and effector T cell subsets in tumor-draining lymph nodes of patients with squamous cell carcinoma of head and neck. *BMC Immunology*. 2022 November; 23(1):56. doi: 10.1186/s12865-022-00530-3.
19. Karimi S, **Mehdipour F**, Sarvari J, Ataollahi MR, Ramezani A, Meri S, Kalantar K. Investigation of the frequencies of various B cell populations in non-responder healthcare workers in comparison with responders to hepatitis B virus vaccination. *Transactions of the Royal Society of Tropical Medicine and Hygiene*. 2023 April; 13:trad016. doi: 10.1093/trstmh/trad016.

20. Moeinzadeh L, Ramezani A, **Mehdipour F**, Yazdanpanah-Samani M, Razmkhah M. Activation of T lymphocytes with anti-PDL1-BiTE in the presence of adipose-derived mesenchymal stem cells (ASCs). *BioMed Research International*. 2023 June; doi.org/10.1155/2023/7692726
21. Saleh Z, **Mehdipour F**, Ataollahi MR, Ali-Hassanzadeh M, Kabelitz D, Kalantar K. Frequency of B-cell subpopulations in low responders in comparison with high responders to hepatitis B vaccine among health care workers. *Current Microbiology*. 2023 July; 24;80(9):296. doi: 10.1007/s00284-023-03367-0
22. Zareinejad MR, **Mehdipour F**, Roshan-Zamir M, Faghih Z , Ghaderi A, Dual functions of T lymphocytes in breast carcinoma: from immune Protection to Orchestrating Tumor Progression and Metastasis. *Cancers (Basel)*. 2023 September; 28;15(19):4771. doi: 10.3390/cancers15194771

Book chapter

Ghods A, Ghaderi A, **Mehdipour F**. Expression of TNFRs by B and T Lymphocytes in Tumor-Draining Lymph Nodes. *Methods in Molecular Biology*. 2021; 2248:259-269

Oral presentations:

- 1- **Mehdipour F**, Malekzadeh M, Talei AR, Ghaderi A. Decreased Serum Level of Interleukin-19 in Iranian Patients with Breast Cancer , **Oral presentation** in Breast Cancer congress, Tehran, 2013
- 2- **Mehdipour F**. Role of B cells in tumor site, **Oral presentation as an invited speaker** in the 12th Iranian Immunology Congress, April-May 2014.
- 3- **Mehdipour F**. Regulatory B cells in cancer, **Oral presentation as an invited speaker** in the 13th Iranian Immunology Congress, April 2016.
- 4- **Mehdipour F**. Regulatory role of B cells in cancer, **Oral presentation as an invited speaker** in the 15th Iranian Immunology Congress, January 2021.
- 5- **Mehdipour F**. TNF- α and Cancer: Friends or Foes? **Oral presentation as an invited speaker** in the 16th Iranian Immunology Congress, April 2023.

Poster presentations:

1. **Mehdipour F**, Razmkhah M, Hosseinzadeh M, Safaei A, Talei AR, Hosseini SV, Ghaderi A. B cell subsets in breast and colon cancer draining lymph nodes, **Poster presentation** in the 12th Iranian Immunology Congress 2014

2. **Mehdipour F**, Razmkhah M, , Bagheri M, , Talei AR, Ghaderi A. IL-10 producing B cells in breast cancer draining lymph nodes, **Poster presentation** in the 16th International Immunology Congress , August 2016.
3. Ghaderi A, **Mehdipour F**, B cell cytokine profile in breast tumor draining lymph nodes, **Poster presentation** in the 16th International Immunology Congress, August 2016.
4. **Mehdipour F**, Arabpour M, , Talei AR, Ghaderi A. Investigation of B lymphocytes producing Granzyme B from breast cancer draining lymph nodes, **Poster presentation** in the 46th Annual Scientific Meeting of the Australasian Society for Immunology, November 2017.

Supervision:

Co-supervisor of Master theses:

1. Assessment of the frequency of granzyme B or 4-1BBL expressing B cells in tumor draining lymph nodes of patients with breast cancer and its association with disease parameters (Finished)
2. Study of the membrane TNF-alpha positive B and T (CD4+, CD8+) lymphocytes in breast cancer draining lymph nodes (Finished)
3. Investigation of the immune stimulatory and regulatory capacity of the B cells in tumor draining lymph nodes of breast cancer patients and its changes during disease progression (Finished)
4. Investigation of the cross-talk between B cells from breast cancer draining lymph node and Breast cancer cell lines: study of granzyme B expression and induction of apoptosis (Finished)
5. Investigation of IL-10 receptor expression on B cells from breast cancer draining lymph node and the effect of recombinant IL-10 on granzyme B expression in B cells (Finished)
6. The frequency of CD4+ T cell expressing IL-21 and B cells expressing IL-21R in peripheral blood mononuclear cells of patients with breast cancer in comparison with healthy individuals (Finished)
7. Assessment of the frequencies of CD4+ and CD8+T and CD19+ B cells expressing TNFR2 in the peripheral blood mononuclear cells of patients with breast cancer in comparison with healthy individuals (Finished)
8. Comparison of the frequency of switched and unswitched memory B cells in the peripheral blood mononuclear cells of patients with breast cancer and healthy individuals (Finished)

9. Investigation of the effect of adipose derived mesenchymal stem cells on the expression of exhaustion markers –PD-1 and TIM-3- in CD4+ T cells obtained from breast cancer draining lymph nodes (Ongoing)

Co-supervisor of Ph.D thesis:

1. Investigation of immune cells profile in Head and Neck Squamous Cell Carcinoma draining lymph nodes and search for tumor antigenic determinants reactive to patients sera (Finished)

Co-supervisor of Pharmacy student:

1. Flow cytometry analysis of AT1 receptor expression in N2a cell line treated with Captopril, Fluoxetine, Imipramine and Venlafaxine (Finished)

Co-supervisor of Medical students:

1. Investigation of IL-21 and IL-21 receptor in CD4⁺ T and B lymphocytes of tumor draining lymph nodes of patients with breast cancer (Finished)
2. Investigation of the B cells with immune stimulatory and regulatory capacities in tumor draining lymph nodes of patients with head and neck squamous cell carcinoma and its changes during disease progression (Finished)

Referees:

1- Professor Abbas Ghaderi

Shiraz Institute for Cancer Research, Shiraz University of Medical Sciences
ghaderia@sums.ac.ir

2- Dr. Mahboobeh Razmkhah

mrasmkhah2@gmail.com