

Curriculum Vitae



Name: Alireza Mardomi

Date and place of birth: February 23, 1991, Tabriz, Iran

Gender: Male

Marital status: Married

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Education:

- B.Sc. degree in Cellular and Molecular Biology, Biotechnology (Rabe Rashid University, Tabriz, Iran 2009-2013)
- M.Sc. degree in Medical Biotechnology (Tabriz University of Medical Sciences, Tabriz, Iran, 2013-2016)
- PhD degree in Medical Immunology (Mazandaran University of Medical Sciences, Sari, Iran, 2016- 2021)

Teaching experience:

- Immunology for Nursing students (Mazandaran University of Medical Students)
- Immunology for Laboratory Medicine students (Tabriz Medical sciences, Islamic Azad University)
- Immunohematology for Laboratory Medicine students (Tabriz Medical sciences, Islamic Azad University)
- Immunology for Midwifery Students (Tabriz Medical sciences, Islamic Azad university)
- Hematology for Laboratory Medicine students (Tabriz Medical sciences, Islamic Azad University)
- Immunology for Dentistry students (Tabriz Medical sciences, Islamic Azad University)

Technical experience:

Cell culture, Flowcytometry, ELISA design and practice, Design of various PCR primers, PCR, qPCR, and data analysis, Gene cloning, transient transfection, lentiviral transduction, and stable cell establishment, Work with laboratory animals, Statistical analysis using GraphPad Prism, MACS cell isolation, CFSE cell proliferation and MTT assay, Transwell migration assay and scratch assay, Immunocytochemistry and immunofluorescence, Cryosection and IHC, HLA histotyping methods and transplant Immunology, Clinical diagnostics in Immunology, Quality control in clinical laboratory.

Research interests:

- Transplantation Immunology
- Cancer Immunology
- Immunotherapy
- Immunologic tolerance
- Stem cell biology
- Lentiviral transduction

Publications:

1. Mardomi A, Limoni SK, Rahbarghazi R, Mohammadi N, ... Abediankenari S. PD-L1 overexpression conveys tolerance of mesenchymal stem cell-derived cardiomyocyte-like cells in an allogeneic mouse model. Journal of Cellular Physiology. Jan 2021.
2. Mohammadi N, Mardomi A, Hassannia H, Enderami SE, Ranjbaran H, Rafiei A, Abediankenari S. Mouse bone marrow-derived mesenchymal stem cells acquire immunogenicity concurrent with differentiation to insulin-producing cells. Immunobiology. 2020 Sep 1;225(5):151994.
3. Mardomi A, Mohammadi N, Abediankenari S. An update on potentials and promises of T cell co-signaling molecules in transplantation. Journal of Cellular Physiology. 2020 May;235(5):4183-97.
4. Mardomi A, Ghollasi M, Korani M, Panahi M, Parsa-Kondelaji M, Sabzichi M, Salimi A. Blockade of TGF- β R improves the efficacy of doxorubicin by modulating the tumor cell motility and affecting the immune cells in a melanoma model. Naunyn-Schmiedeberg's Archives of Pharmacology. 2021 Sep 9:1-4.
5. Mardomi A, Hossein-Nataj H, Jafari N, Mohammadi N, Abediankenari S. SDF-1 α Reduces Human Natural Killer Cell Cytotoxicity against Chronic Myelogenous Leukemia K562 Cells. Iranian Journal of Allergy, Asthma and Immunology. 2018;1–7. ISI,
6. Mardomi A, Abediankenari S. Matrix metalloproteinase 8: could it benefit the CAR-T cell therapy of solid tumors? -a-Commentary on therapeutic potential. Cancer Microenvironment. 2018;11(1):93–6.
7. Mardomi A, Sabzichi M, Somi MH, Shanehbandi D ... Samadi N. Trafficking mechanism of bone marrow-derived mesenchymal stem cells toward hepatocellular carcinoma HepG2 cells by modulating Endoglin, CXCR4 and TGF- β . Cellular and Molecular Biology (Noisy Le Grand France). 2016.
8. Mardomi A, Nouri M, Farzadi L, Zarghami N, Mehdizadeh A, Yousefi M, et al. Human charcoal-stripped serum supplementation enhances both the stearyl-coenzyme a desaturase 1 activity of cumulus cells and the in vitro maturation of oocytes. Human Fertility. 2019;22(3):212–8.
9. Eyvaznejad E, Nouri M, Ghasemzadeh A, Mehdizadeh A, Shahnazi V, Asghari S, Mardomi A, Darabi M. Steroid-depleted polycystic ovarian syndrome serum promotes in vitro oocyte maturation and embryo development. Gynecological Endocrinology. 2018;1–6.
10. Abedi Gaballu F, Abedi Gaballu Y, Moazen-zade Khyavy O, Mardomi A, Ghahremanzadeh K, Shokouhi B, et al. Effects of a triplex mixture of Peganum harmala, Rhus coriaria, and Urtica dioica aqueous extracts on metabolic and histological parameters in diabetic rats. Pharmaceutical Biology. 2015;53(8):1104–9.
11. Sabzichi M, Ramezani M, Mohammadian J, Ghorbani M, Mardomi A, Najafipour F, et al. The synergistic impact of quinacrine on cell cycle and anti-invasiveness behaviors of doxorubicin in MDA-MB-231 breast cancer cells. Process Biochemistry. 2019; 81:175–81.

12. Mokhtari H, Sirati-Sabet M, Jafari N, Mardomi A, Abediankenari S, Yaghmaei B, Mahrooz A. Enhanced efficacy of miR-34a mimic and miR-93 inhibitor co-transfection by epigallocatechin-3-gallate in prostate cancer cells on the expression of androgen receptor and prostate-specific antigen. Iranian Journal of Allergy, Asthma and Immunology. 2020 19(6):612-623.
13. Khosroshahi HT, Mardomi A*, Niknafs B, Farnood F, Shekarchi M, Salehi S, Fadaei Haggi T. Current status of COVID-19 among hemodialysis patients in the East Azerbaijan Province of Iran. Hemodialysis International. 2020 Dec 4.
14. Mardomi, A. and Khosroshahi, H.T., Dialysis-Induced Immune Dysregulations and Their Possible Impacts on COVID-19. Iranian Journal of Kidney Diseases. 2021 15(3).
15. Khosroshahi HT, Mardomi A*. The initial infectious dose of SARS-CoV-2 and the severity of the disease: possible impact on the incubation period. Future Virology. 2021 May;16(5):369-73.
16. Sabzichi M, Oladpour O, Mohammadian J, Rashidi M, Hosseinzadeh M, Mardomi A, Ramezani B, Ghorbani M, Ramezani F. Zoledronic acid loaded lipidic nanoparticles enhance apoptosis and attenuate invasiveness by inhibiting epithelial to mesenchymal transition (EMT) in HepG₂ cancer cells. Naunyn-Schmiedeberg's Archives of Pharmacology. 2021 (1-11).
17. Hasani Karmozdi B, Mardomi A, Abediankenari S. The effect of bone marrow-derived mesenchymal stem cells to induce PD-L1 molecule on splenic lymphocytes. Tehran University Medical Journal TUMS Publications. 2021 Nov 10;79(8):593-600.
18. Mardomi A, Abediankenari S. Introducing a New SYBR green Real-time PCR for Detection of SARS-CoV2 Virus Genome. Journal of Mazandaran University of Medical Sciences. 2022 Mar 10;31(206):154-9.
19. Mardomi A, Naderi SB, Vahed SZ, Ardalan M. New insights on the monitoring of solid-organ allografts based on immune cell signatures. Transplant immunology. 2022 Feb 1;70:101509.
20. Farnood F, Mardomi A, Vahed SZ, Ardalan M. Prevalence of anti-HLA antibodies in highly sensitized kidney transplant candidates. Journal of Renal Injury Prevention. 2022 May 6;11(2):e32063.
21. Golpour, M., Mousavi, T., Alizadeh-Navaei, R., & Mardomi, A*. (2022). The immunogenicity of an inactivated vaccine against SARS-CoV-2 in healthy individuals: A systematic review and meta-analysis. Transplant Immunology, 101732. (*Corresponding Author)
22. Alimohammadi, M., Moosazadeh, M., Mardomi, A., & Mousavi, T. (2022). Seroprevalence of VZV IgG antibody in kidney transplant recipients: A systematic and meta-analysis review. Transplant Immunology, 75, 101730.
23. Farnood F, Hejazian SM, Boostani K, Mardomi A, Ardalan M. Recurrence of rare disease after kidney transplant. Journal of Nephropharmacology. 2023;12(1).
24. Ghasemi Y, Mardomi A, Alizadeh E, Khosroshahi HT. Urinary MicroRNAs, Possible Biomarkers for Early Detection of Patients with Autosomal Dominant Polycystic Kidney Disease (ADPKD). Iranian Journal of Kidney Diseases. 2023 Mar 1;17(2):73.
25. Mardomi A, Mousavi T, Farnood F, Khosroshahi HT. Genotoxicity: A neglected but potentially critical aspect of adenoviral COVID-19 vaccines. Future Virology. 2023 Oct;18(15):971-3.

26. Mardomi A, KarajiBani M, Farnood F, Vahed SZ, Ardalan M. The frequency of peripheral PD-1+ TCD4+ cells is reversely associated with serum creatinine levels in recipients of kidney allografts. Transplant Immunology. 2023 Dec 1;81:101946.

Congress presentations:

1. 13th international congress of Immunology and asthma (ICIA). Trafficking mechanism of bone marrow-derived mesenchymal stem cells toward hepatocellular carcinoma cells by modulating CD105, CXCR4 and TGF- β . 2016. Tabriz, Iran. (Poster presentation)
2. 14th international congress of Immunology and asthma (ICIA). SDF-1 reduces human NK cell cytotoxicity against K562 cell in vitro. 2018. Tehran, Iran. (Oral presentation)
3. 15th international congress of Immunology and asthma (ICIA). PD-L1 protects the mesenchymal stem cell derived cardiomyocytes against allogeneic immune responses in mice. 2021. Ahwaz, Iran. (Oral presentation)
4. Scientific speaker at 1st congress of Laboratory Diagnosis (2022, Tehran). Detection methods for diagnosis of new SARS-CoV2 variants.
5. Scientific speaker at 2nd congress of Laboratory Diagnosis (2023, Tehran). Application of virtual cross-matching in organ transplantation