ZAHRA MADJD, MD PhD

PERSONAL DETAILS
Professor, Dep of Pathology, School of Medicine, Iran University of Medical Sciences (IUMS) Head, Dep of Molecular Medicine, Faculty of Advanced Technologies in Medicine, IUMS Oncopathology Research Centre, IUMS Address: Hemmat Highway, Next to Milad tower, Tehran, Iran, Post code: 14496-14525 Tel/fax:+982188622608 zahra.madjd@yahoo.com, majdjabari.z@iums.ac.ir

Professor Zahra Madjd, MD, Ph.D., Graduated Medical School, Tehran, Iran and conducted her Ph.D. from the Department of Oncology, University of Nottingham, UK and is currently a professor of immunopathology at "The Dep of Pathology" & "Oncopathology Research Center", Iran University of Medical Sciences."

Academic Activities

Position	**Dates**	**Place**
Professor	**Feb 2018 -present**	**Dep Pathology, Iran University of Medical Sciences (IUMS)**
Visiting Professor	March – Sep 2018	Dep Urologic Sciences, Vancouver Prostate Centre, UBC, Canada
Core member of Council, IUMS	2018-2021	Iran University of Medical Sciences
Head, Cancer Stem Cells Committees	2016-2018	National Committee for Stem Cell Sciences and Technologies
Visiting Scientist	2014	Molecular Medicine Lab, Dep Dermatology, UBC, Vancouver, Canada
Member of National Board of Biotechnology and Molecular Medicine	2013-present	Ministry of Health and Medical Education
Head of Research Centres Coordinating Office (RCCO)	2013	Iran University of Medical Sciences
Associate Professor	2012- 2018	Dep of Pathology, IUMS
Head, Dep Molecular Medicine	2009- present	Faculty of Advanced Technologies in Medicine,
Co-founder , Research Director of Oncopathology Research Centre	2007 - present	Iran University of Medical Sciences
Core member of Cancer Research Centre (CRC)	2007 - present	Shahid Beheshti University, Shohada Hospital, Tehran
Member of Research Committee	2007- present	Dep Pathology, IUMS
Assistant Professor	2006-2012	Dep of Pathology, School of Medicine, IUMS

Appointed for Post doctorate Scientist (Prof Shila Bingha)	2006	University of Cambridge, Addenbrock's Hospital, MRC
Post-doctoral Research Fellow (Prof Lindy Durrant)	2005-2006	CRUK Clinical Oncology, University of Nottingham, Nottingham, UK
PhD, Cancer Immunology (Prof Lindy Durrant, Prof Ian. O Ellis)	2001- 2005	CRUK Clinical Oncology, University of Nottingham, City Hospital, Nottingham, UK
MSc (selected courses, Oncology)	2000-2001	University of Nottingham, UK
Medical practice (GP)	1996- 2000	Torab Health Center, Tehran, Iran
Doctorate in Medicine (MD)	1988 -1996	Tehran, Iran

Grants

1. National Grants (5 times) by "Natinal Institute for Medical Reserch Development, **NIMAD**", as distinguished researcher with high H-Index (**2016, 2017, 2018, 2023 and 2025**)
2. Grant by Stem cell Foundation, **Julay 2024**
3. National Grant by: Iran National Science Foundation: INSF, Nano committee, **March 2024**
4. Grants by Iran University of Medical Sciences (IUMS), as distinguished researcher with H-Index>30 (**May 2023**), Application of Artificial Inteligence (AI) in histopathology scoring.
5. National Major Grant, Research and Technology Office, Ministry of Health and Medical Education, for "Cancer Stem Cells in Gastrointestinal Cancers" equipment setup (**March 2016**)
6. Research Grant, Research and Technology Office, Ministry of Health and Medical Education, to equip a special culture room for Cancer Stem Cell Research (**Dec 2015**)
7. Grant by "Iran National Science Foundation: for project on Renal Cancer Stem Cells (**Oct 2015)**

Honours and Prizes

1) EACR-18 (European Association of Cancer Research) award, July 2004, Insbruke, Austria.
2) BACR (British Association of Cancer Research) award , ECCO13 meeting, October 2005, Paris
3) BACR award at the EACR 20, July 2008, Lyon, France
4) Young Researcher award, Iranian Ministry of Health and Education, December 2008
5) Distinguished Researcher award , Iran University of Medical Sciences, Dec 2014
6) Distinguished Researcher award (high H-Index) , Iran University of Medical Sciences, Dec 2017
7) Distinguished Researcher award (high H-Index) , Iran University of Medical Sciences, August 2019

Research Interests:

1) AI in Cancer Diagnosis and Pathology
2) Cancer Stem cells (CSCs)
3) Tumour Biomarkers
4) Targeted Therapy of Cancer, applying CAP (Cold Atmospheric Plasma)
5) Cancer Immunotherapy, Cancer Vaccine, Monoclonal Anti-bodies
6) Translational Cancer Research

Background Education:

1. MD dissertation: "Characteristics of thyroid disorders before and after iodized salt consumption in Tehran during 1993-5". Supervisor: Professor Freidoon Azizi

2. PhD project: Expression of complement regulatory proteins (CIPs) and MHC class I molecules in breast carcinomas. These antigens (CIPs) are targets for monoclonal antibody therapy (mab), as over-expression of CIPs limits the effectiveness of mab therapy. Prof Lindy Durrant & Prof an Ellis, University of Nottingham, UK

3. Post-doctoral Research Fellow. Study of immune-surveillance pathway in Breast tumours, colorectal cancer, supervisor: Prof Lindy Durrant, University of Nottingham

4. Sabbatical. Visiting Scientist (2014) Molecular Medicine Lab, Dep Dermatology, UBC, Canada, Biomarkers in Melanoma

5. Sabbatical/ Fellowship. Visiting Professor (2018), Dep Urologic Sciences, Vancouver Prostate Centre, UBC, Canada. SEMA3C expression on bladder and renal cell carcinomas for targeted therapy.

PUBLICATIONS:

h- Index (Scopus) =37
h- Index (Google scholar) =43

2024 -2025

- The association between tumor-stromal collagen features and the clinical outcomes of patients with breast cancer: a systematic review. Heydari S, Tajik F, Safaei S, Kamani F, Karami B, Dorafshan S, Madjd Z, Ghods R. Breast Cancer Res. 2025 May 5;27(1):69.

- Molecular and phenotypic characterization of 5-FU resistant colorectal cancer cells: toward enrichment of cancer stem cells. Babajnai A, Rahmani S, Asadi MJ, Gheytanchi E, Adibhesami G, Vakhshiteh F, Madjd Z. Cancer Cell Int. 2025 Apr 18;25(1):154.

- Increased expression of PDGFA and RAF1 in Tumor-derived exosomes in human colorectal cancer. Vafaei S, Yuzhen Gao, Marzieh Naseri, Zöller M, Zanjani LS, Razieh Karamzadeh, Hadi Ahmadi Amoli, Marzieh Ebrahimi, Madjd Z. Cell Mol Biol (Noisy-le-grand). 2025 Apr 15;71(3):1-13.

- Lower cytoplasmic expression of DDIT4 is associated with poor prognosis in gastric cancer patients. Dehghan Manshadi M, Tajik F, Saeednejad Zanjani L, Hashemi F, Rahimi M, Fattahi F, Safaei S, Madjd Z, Ghods R. Discov Oncol. 2025 March 22;16(1):374.

- Clinical significance of "S" isoform of DCLK1 in different gastric cancer subtypes using newly produced monoclonal antibody. Razmi M, Bayat AA, Mortazavi N, Kalantari E, Saeednejad Zanjani L, Saki S, Ghods R, Madjd Z. Cancer Biomark. 2025 Jan;42(1).

- Nuclear Expression of Dynamin 2 Is Associated With Tumor Aggressiveness in Bladder Cancer Patients: A Bioinformatics and Experimental Approach. Razmi M, Saeednejad Zanjani L, Rahimi M, Sajed R, Safaei S, Madjd Z, Ghods R. Cancer Rep (Hoboken). 2024 Dec;7(12).

- Increased nuclear expression of DNA damage inducible transcript 4 can serve as a potential prognostic biomarker in patients with gliomas: a study based on data mining and experimental tools. Sadeghipour A, Fattahi F, Madjd Z, Tajik F, Sedaghati F, Saeednejad Zanjani L. Discov Oncol. 2025 Feb 6;16(1):124.

- Cytoplasmic SALL4-A isoform expression as a diagnostic marker of less aggressive tumor behavior in gastric cancer. Rahmani S, Babajani A, Abolhasani M, Ghods R, Kalantari E, Madjd Z. World J Surg Oncol. 2025 Feb 4;23(1):41.

- Overexpression of MAGE-A2 is Related to the Malignant Degree and Progression of Disease in Patients With Clear Cell Renal Cell Carcinoma. Mohsenzadegan M, Fattahi F, Kalantari E, Abolhasani M, Madjd Z, Saeednejad Zanjani L. Appl Immunohistochem Mol Morphol. 2025 Mar 1;33(2):78-90.

- The mechanisms of B-cell acute lymphoblastic leukemia relapsing following chimeric antigen receptor-T cell therapy; the plausible future strategies. Karimi-Googheri M, Gholipourmalekabadi M, Madjd Z, Shabani Z, Rostami Z, Kazemi Arababadi M, Kiani J. Mol Biol Rep. 2024 Nov 8;51(1):1135.

- Clinical significance of Talin-1 and HER-2 status in different types of gastric carcinoma. Hashemi F, Tajik F, Saeednejad Zanjani L, Dehghan Manshadi M, Safaei S, Babaheidarian P, Fattahi F, Ghods R, Madjd Z. Biomarkers. 2024 Dec;29(8):539-556.

- Reactive oxygen species from non-thermal gas plasma (CAP): implication for targeting cancer stem cells. Babajani A, Eftekharinasab A, Bekeschus S, Mehdian H, Vakhshiteh F, Madjd Z. Cancer Cell Int. 2024 Oct 22;24(1):344.

- Editorial: Immunotherapeutic strategies to target cancer stem cells: state of the art in basic research to clinical application. Babajani A, Naseri M, Vakhshiteh F, Ghods R, Madjd Z. Front Immunol. 2024 Sep 23;15:1490569.

- The Effects of Severe Symptoms of SARS-CoV-2 Infections on the Anti/Proapoptotic Molecules: A 6-Month Cohort Study. Karimi-Googheri M, Madjd Z, Kiani J, Shabani Z, Kazemi Arababadi M, Gholipourmalekabadi M. Viral Immunol. 2024 Oct;37(8):392-403.

- Higher Expression of Talin-1 is Associated With Less Aggressive Tumor Behavior in Pancreatic Cancer. Ahmadi Jazi S, Tajik F, Rezagholizadeh F, Taha SR, Shariat Zadeh M, Bouzari B, Madjd Z. Appl Immunohistochem Mol orphol. 2024 Oct 1;32(9):425-435. 2024

- Advanced co-culture 3D breast cancer model to study cell death and nanodrug sensitivity of tumor spheroids. Akram Ahvaraki, Elmira Gheytanchi, Ebrahim Behroodi, Hamid Latifi, Faezeh Vakhshiteh, Zeinab Bagheri, Zahra Madjd, June 2024.Biochemical Engineering Journal.

- Higher expression of SALL4-A isoform is correlated with worse outcomes and progression of the disease in subtype of testicular germ cell tumors. Niknam Lakpour, Roya Ghods, Maryam Abolhasani, Leili Saeednejad Zanjani, Kioomars Saliminejad, Elham Kalantari, Sima Saki, Mohammad Mehdi Ranjbar, Leila

Balay-Goli, Mohammad Reza Sadeghi, Zahra Madjd. May 2024. Biomarkers. Pages 1-47.

- Metabolic Fingerprinting of Serum and Seminal Plasma of Testicular Cancer Patients Using Raman Spectroscopy: A Pilot Study. Niknam Lakpour, Mohammad Reza Sadeghi, Naser Jafarzadeh, Ralf Henkel, Azadeh Hajiparvaneh, Zohreh Fathi, Roya Ghods, Kambiz Gilany, Zahra Madjd, March 2024. Journal of Reproduction & Infertility.

- Which approach, biosensors or molecular biology techniques, offers a more effective and reliable method for detecting circular RNAs in cancer? Y Vojgani, Z Madjd, L Yesharim, L Golami, S Saeedi, J Kiani, M Karimi, Microchemical Journal, Apr 2024.

2023

1. Clinical significance of CD166 and HER-2 in different types of gastric cancer, L Moradi, F Tajik, L Saeednejad Zanjani, M Panahi, E Gheytanchi, .. Madjd Z,Clinical and Translational Oncology. July 2023, 26 (3), 664-681.

2. Novel neutralizing SARS-CoV-2-specific mAbs offer detection of RBD linear epitopes. SMM Zadeh, AA Bayat, H Shahsavarani, F Karimi-Busheri, J Kiani, ..., Z Madjd, Virology Journal 21 (1), 37.

3. Clinico-Pathological and Prognostic Significance of a Combination of Tumor Biomarkers in Iranian Patients With Breast Cancer. MH Makoui, M Mobini, S Fekri, L Geranpayeh, HM Tabriz, Z Madjd, ….Clinical Breast Cancer 24 (1), e9-e19. e9.

4. Combination of anti-miR19a-3p polyplex plus doxorubicin for breast cancer in 2D culture and apoptosis assay in 3D spheroids in a microwell device. BKY Azar, M Nourbakhsh, MR Nasiraee, K Mousavizadeh, Z Majd, ...Journal of Micromechanics and Microengineering 34 (1), 015002

5. Nuclear overexpression of DNA damage-inducible transcript 4 (DDIT4) is associated with aggressive tumor behavior in patients with pancreatic tumors. F Tajik, F Fattahi, F Rezagholizadeh, B Bouzari, P Babaheidarian, ...Z Madjd. Scientific Reports 13 (1), Nov 2023.

6. Quantitative measurement of CA 15-3 cancer biomarker using an electrochemical aptasensor based on the electrodeposition of Au thin film on cauliflower-like rGO-MoS2 nanocomposite. Y Vojgani, S Ranjbar, N Naseri, A Dolati, Z Madjd, J Kiani, S Saeedi, ..Z Madjd, Microchimica Acta 190 (10), 406.

7. COVID-19 pandemic impact on screening and diagnosis of prostate cancer: a systematic review. SMM Zadeh, F Tajik, E Gheytanchi, J Kiani, R Ghods, Z Madjd, BMJ Supportive & Palliative Care. 2023

8. Engineering chimeric autoantibody receptor T cells for targeted B cell depletion in multiple sclerosis model: An in-vitro study. M Sahlolbei, M Azangou-Khyavy, J Khanali, B Khorsand, A Shiralipour, ...Z Madjd. Heliyon 9 (9). 2023

9. Heterotypic tumor spheroids: a platform for nanomedicine evaluation Faezeh Vakhshiteh , Zeinab Bagheri, Marziye Soleimani , Akram Ahvaraki , Parisa Pournemat, Seyed Ebrahim Alavi and Zahra Madjd,Journal of Nanobiotechnology, August(2023) 21:249

10. Tumor matrix stifness provides fertile soil for cancer stem cells. Sadegh Safaei, Roya Sajed, Ahmad Shariftabrizi, Shima Dorafshan, Leili Saeednejad Zanjani, Masoumeh Dehghan Manshadi, Zahra Madjd and Roya Ghods, Cancer Cell Int, 23:143,(July 2023).

11. Novel Monoclonal Antibodies Specific for Human Ki67 and P53 Tumor Markers in Breast Cancer Tissue Samples. Hassanzadeh Makoui M, Mobini M, Khoshnoodi J, Bahadori T, Golsaz-Shirazi F, Moradi Tabriz H, **Madjd Z**, Jeddi-Tehrani M, Zarnani AH, Amiri MM, Shokri F. Iran J Immunol. 2023 May 7;20(2). doi: 10.22034/iji.2023.96926.2469

12. High expression of Talin-1 is associated with tumor progression and recurrence in melanoma skin cancer patients. Rezaie Y, Fattahi F, Mashinchi B, Kamyab Hesari K, Montazeri S, Kalantari E, **Madjd Z**, Saeednejad Zanjani L.BMC Cancer. 2023 Apr 3;23(1):302. doi: 10.1186/s12885-023-10771-z.

13. Gheytanchi E, Tajik F, Razmi M, Babashah S, Cho WCS, Tanha K, Sahlolbei M, Ghods R, **Madjd Z.**Cancer Cell Int. 2023 Jan 20;23(1):10. doi: 10.1186/s12935-023-02851-8

14. Efficacy of Whole Cancer Stem Cell-Based Vaccines: A Systematic Review of Preclinical and Clinical Studies. Hashemi F, Razmi M, Tajik F, Zöller M, Dehghan Manshadi M, Mahdavinezhad F, Tiyuri A, Ghods R, **Madjd Z.** Stem Cells. 2023 Mar 17;41(3):207-232. doi: 10.1093/stmcls/sxac089

15. Combination of androgen receptor inhibitor enzalutamide with the CDK4/6 inhibitor ribociclib in triple negative breast cancer cells. Choupani E, **Madjd Z**, Saraygord-Afshari N, Kiani J, Hosseini A.PLoS One. 2022 Dec 22;17(12):e0279522. doi: 10.1371/journal.

16. Prognostic value of lin-1 in renal cell carcinoma and its association with B7-H3.Saeednejad Zanjani L, Vafaei S, Abolhasani M, Fattahi F, **Madjd Z.**Cancer Biomark. 2022;35(3):269-292.

17. RNA-sequencing for transcriptional profiling of whole blood in early stage and metastatic pancreatic cancer patients.Kalantari S, Kazemi B, Roudi R, Zali H, D'Angelo A, Mohamadkhani A, **Madjd Z**, Pourshams A.Cell Biol Int. 2022 Oct 13. doi: 10.1002.

18. Production and characterization of a new specific monoclonal antibody against A-isoform of SALL4: A novel emerging testicular cancer marker. Lakpour N, Ghods R, Sadeghi MR, Ranjbar MM, Abolhasani M, Kiani J, Saliminejad K, Balay-Goli L, Bayat AA, Souri F, **Madjd Z.**Andrologia. 2022 Dec;54(11):e14608

19. Periostin: biology and function in cancerDorafshan S, Razmi M, Safaei S, Gentilin E, **Madjd Z**, Ghods R.Cancer Cell Int. 2022 Oct 12;22(1):315

20. Generation and Characterization of Novel Diagnostic Mouse Monoclonal Antibodies Against Human Estrogen Receptor Alpha and Progesterone Receptor. Hassanzadeh Makoui M, Mobini M, Khoshnoodi J, Judaki MA, Bahadori T, Ahmadi Zare H, Golsaz-Shirazi F, Moradi Tabriz H, **Madjd Z**, Jeddi-Tehrani M, Zarnani AH, Amiri MM, Shokri F.Asian Pac J Cancer Prev. 2022 Sep 1;23(9):2999-3007.

21. Preventive cancer stem cell-based vaccination modulates tumor development in syngeneic colon adenocarcinoma murine model.Eini L, Naseri M, Karimi-Busheri F, Bozorgmehr M, Ghods R, **Madjd Z.**J Cancer Res Clin Oncol. 2022 Aug 30. doi: 10.1007/s00432-022-04303-8

22. Impact of COVID-19 pandemic on screening and diagnosis of patients with prostate cancer: a systematic review protocol. Mostafavi Zadeh SM, Tajik F, Moradi Y, Kiani J, Ghods R, **Madjd Z.**BMJ Open. 2022 Aug 26;12(8):e063748. doi: 10.1136/bmjopen-2022-063748

23. Copy Number Variation of Circulating Tumor DNA (ctDNA) Detected Using NIPT in Neoadjuvant Chemotherapy-Treated Ovarian Cancer Patients. Sharbatoghli M, Fattahi F, Aboulkheyr Es H, Akbari A, Akhavan S, Ebrahimi M, Asadi-Lari M, Totonchi M, **Madjd Z.** Front Genet. 2022 Jul 22.

24. Oncogenic functions and clinical significances of DCLK1 isoforms in colorectal cancer: a systematic review and meta-analysis. Kalantari E, Razmi M, Tajik F, Asadi-Lari M, Ghods R, **Madjd Z.**Cancer Cell Int. 2022 Jun 18;22(1):217.

25. Overexpression of cytoplasmic dynamin 2 is associated with worse outcomes in patients with clear cell renal cell carcinoma. Safaei S, Sajed R, Saeednejad Zanjani L, Rahimi M, Fattahi F, Ensieh Kazemi-Sefat G, Razmi M, Dorafshan S, Eini L, **Madjd Z**, Ghods R.Cancer Biomark. 2022 May 30.

26. Upregulation of Ganglioside GD2 Synthase (GD2S), as a New Putative Cancer Stem Cell Marker in Breast Carcinomas. Mansoori M, Mirzaei A, Abdi Rad I, Mahmodlou R, Mansouri F, Saeednejad Zanjani L, Asadi-Lari Z, **Madjd Z.**Med J Islam Repub Iran. 2021 Nov 6;35:148.
27. Co-expression of cancer stem cell markers, SALL4/ALDH1A1, is associated with tumor aggressiveness and poor survival in patients with serous ovarian carcinoma. Sharbatoghli M, Shamshiripour P, Fattahi F, Kalantari E, Habibi Shams Z, Panahi M, Totonchi M, Asadi-Lari Z, **Madjd Z**, Saeednejad Zanjani L.J Ovarian Res. 2022 Jan 28;15(1):17.
28. Introduction of an efficient method for placenta decellularization with high potential to preserve ultrastructure and support cell attachment. Sajed R, Zarnani AH, **Madjd Z**, Arefi S, Bolouri MR, Vafaei S, Samadikuchaksaraei A, Gholipourmalekabadi M, Haghighipour N, Ghods R. Artif Organs. 2022 Jan 12. doi: 10.1111/aor.14162. PMID: 35023156
29. Co-expression of cancer-testis antigens of MAGE-A6 and MAGE-A11 is associated with tumor aggressiveness in patients with bladder cancer. Mohsenzadegan M, Razmi M, Vafaei S, Abolhasani M, **Madjd Z**, Saeednejad Zanjani L, Sharifi L.Sci Rep. 2022 Jan 12;12(1):599. doi: 10.1038/s41598-021-04510-2.PMID: 35022469
30. Significant co-expression of putative cancer stem cell markers, EpCAM and CD166, correlates with tumor stage and invasive behavior in colorectal cancer. Kalantari E, Taheri T, Fata S, Abolhasani M, Mehrazma M, **Madjd Z**, Asgari M.World J Surg Oncol. 2022 Jan 11;20(1):15. doi: 10.1186/s12957-021-02469-y.PMID: 35016698

31. Bioengineering of fibroblast-conditioned Polycaprolactone/Gelatin electrospun scaffold for skin tissue engineering. Yazdanpanah A, **Madjd Z**, Pezeshki-Modaress M, Khosrowpour Z, Farshi P, Eini L, Kiani J, Seifi M, Kundu SC, Ghods R, Gholipourmalekabadi M.Artif Organs. 2022 Jan 10. doi: 10.1111/aor.14169. Online ahead of print.PMID: 35006608

32. Cytoplasmic expression of DCLK1-S, a novel DCLK1 isoform, is associated with tumor aggressiveness and worse disease-specific survival in colorectal cancer. Kalantari E, Ghods R, Zanjani LS, Rahimi M, Eini L, Razmi M, Asadi-Lari M, **Madjd Z.**Cancer Biomark. 2021 Dec 24. doi: 10.3233/CBM-210330..PMID: 34958000

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Mahmodlu R, Mansouri F, Saeednejad Zanjani L, **Madjd Z.**J Appl Biomed. 2021 Dec;19(4):181-189. doi: 10.32725/jab.2021.019. 2021 Sep 16.PMID: 34907737

34. Overexpression of melanoma-associated antigen A2 has a clinical significance in embryonal carcinoma and is associated with tumor progression.Saeednejad Zanjani L, Razmi M, Fattahi F, Kalantari E, Abolhasani M, Saki S, **Madjd Z**, Mohsenzadegan M.J Cancer Res Clin Oncol. 2021 Nov 27. doi: 10.1007/s00432-021-03859-1. Online ahead of print.PMID: 34837545

35. Relationship Between Low Expressions of tRNA-Derived Fragments with Metastatic Behavior of Colorectal Cancer. Sahlolbei M, Fattahi F, Vafaei S, Rajabzadeh R, Shiralipour A, **Madjd Z**, Kiani J.J Gastrointest Cancer. 2021 Nov 26. doi: 10.1007/s12029-021-00773-0. Online ahead of print.PMID: 34837147
36. An Integrative Analysis of The Micro-RNAs Contributing in Stemness, Metastasis and B-Raf Pathways in Malignant Melanoma and Melanoma Stem Cell. Sahranavardfard P, **Madjd Z**, Emami Razavi AN, Ghanadan AR, Firouzi J, Khosravani P, Ghavami S, Ebrahimie E, Ebrahimi M.Cell J. 2021 Aug;23(3):261-272. doi: 10.22074/cellj.2021.7311. Epub 2021 Jul 17.PMID: 34308569

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38. High expression of DNA damage-inducible transcript 4 (DDIT4) is associated with advanced pathological features in the patients with colorectal cancer. Fattahi F, Saeednejad Zanjani L, Habibi Shams Z, Kiani J, Mehrazma M, Najafi M, **Madjd Z.** Sci Rep. 2021 Jul 1;11(1):13626.

39. Increased cytoplasmic expression of DLL4 is associated with favorable prognosis in colorectal cancer.Naseri M, Saeednejad Zanjani L, Vafaei S, Gheytanchi E, Abolhasani M, Bozorgmehr M, Ranaei Pirmardan E, Ghods R, **Madjd Z.**Future Oncol. 2021 Jun 22.
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Babashah S, Abolhasani M, Asgari M, Mehrazma M.Front Oncol. 2021 May 3;11:581172. doi: 10.3389/fonc.2021.581172.

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45. Nuclear overexpression levels of MAGE-A3 predict poor prognosis in patients with prostate cancer.Khalvandi A, Abolhasani M, **Madjd Z**, Shekarabi M, Kourosh-Arami M, Mohsenzadegan M.APMIS. 2021 Jun;129(6):291-303. doi: 10.1111/apm.13132. Epub 2021 Apr 13.

46. Clinical and prognostic significances of cancer stem cell markers in gastric cancer patients: a systematic review and meta-analysis. Razmi M, Ghods R, Vafaei S, Sahlolbei M, Saeednejad Zanjani L, **Madjd Z.**Cancer Cell Int. 2021 Feb 27;21(1):139. doi: 10.1186/s12935-021-01840-z.PMID: 33639931

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50. Clinicopathological Significance of Tumor Stem Cell Markers ALDH1 and CD133 in Colorectal Carcinoma. Rezaee M, Gheytanchi E, **Madjd Z**, Mehrazma M.Iran J Pathol. 2021

2020

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Book:

1. Cancer and Immune system in **"Iran Cancer Report"**, in Farsi, 2008, By Cancer Research Centre, Shahid Beheshti University of Medical Sciences

2. **Tissue Microarrays, Evolutionary in Pathology Research**, in Farsi, 2009, By Oncopathology Research Centre, IUMS

3. **What we should know about Breast Cancer**, hundreds questions and answers about Breast cancer , in Farsi, 2010, Oncopathology Research Centre, IUMS

4. **Complement Regulatory Proteins in Breast Cancer**, Madjd Z and Durrant LG In English, 2010, ISBN (978-3-8383-3769-2), published by LAP LAMBERT Academic Publishing AG & Co. KG, Germany, Distribution by Amazon. www.amazon.com

Post-Doctoral Program and projects

1. Dr Leila Eini (2018) Development of therapeutic vaccine based on colorectal cancer stem cell specific Ag in mice model for targeted therapy
2. Dr Mahdyeh Razmi (2020) Production of novel mAb against cancer-stem-cell biomarker, DCLK1-S and its evaluation in gastric cancer

3. Dr Fatemeh Tajik (2022) Clinical significance of novel cancer stem cell marker, DDIT4 in pancreatic cancer
4. Dr Saeeid Rahman (2023) Artificial Intelligent (AI) for evaluating immunohistochemical staining of gastric tumour tissues: a novel approach in scoring of pathology slides

5. Dr Amir Hesam Babajani (2023), AI projects, Applying AI in scoring of pancreatic tumours , Artificial intelligence-based clinical histopathological scoring and evaluation for pancreatic cancer: identification of SALL-4A biomarker and analysis of clinical features using tissue microarray samples stained by immunohistochemistry.
6. Mehrab Moradzadeh, Dr Elaheh, Noroozi, Creating Immunohistochemical Images from Hematoxylin-eosin Images in Pathology using Deep Learning

Students and projects

PhD Student supervisor / advisor

1. Mrs Glaviz Adib (Current) . Cold Atmospheric Plasma (CAP) as a novel therapeutic option with current commen medicine for the treatment of colorectal cancer by targeting colorectal cancer stem cells

2. Mrs Fatemeh Alizaman (current). Detection of isoform A of the SALL4 biomarker in the serum of patients with colorectal cancer using a nanobiosensor based on gold nanoparticles.
3. Mr Vahid yavarpour (current). Design and fabrication of immunosensor using platinum nanozyme to detect A-isoform of SALL4 in serum of patients with testicular cancer
4. Miss Sadeghi (current, advisor) *In vitro* RNA therapy of miR-10b in U87MG glioblastoma cell line using umbilical cord stem cell-derived exosomes.
5. Miss Jila Rostami (current, advisor). T Cell engineering with synthetic self-replicating RNA molecule and CRISPR system for ALL CAR T cell therapy.

6. Mr. Mostafa Mostafavi Zadeh (current). Production of Neutralizing monoclonal antibody against spike protein of covid-19.
7. Miss Samaneh Heidari (current). The effect of human acellular amniotic mambrane on reprogramming of breast cancer stem cells
8. Mrs Yasaman Vojgani (current, advisor). Construction of graphene-based gold sensor –MoS_2 gold - to detect CA15.3 protein biomarker
9. Mr Masud Karimi (current, advisor). A cohort study on the expression levels of appoptosis related molecules in the respirtatory cells and the lung cancer biomarkers in the serum of CIVID-19 patients
10. Miss. Farideh Hashemi (current). The effect of cancer stem cell-based therapeutic vaccine on tumorigenesis in colorectal cancer mice model
11. Mrs. Masoumeh Dehghan (current). The effect of Prophylactic and Therapeutic lysate based vaccination of cancer stem cells on tumorigenesis in a mouse model of breast cancer.
12. Mrs. Shima Dorafshan (current). Constructing the metastatic and pre-metastatic microenvironment for Assessment of its impact on decreasing the metastatic burden of circulating tumor cells (CTCs) in murine models
13. Mr. Sadegh Safaei (current). Study of the effect of matrix stiffness in three-dimensional culture conditions on the tumorigenic and metastatic potential in a mouse model of breast cancer
14. Mrs Behjat Kheiri (current, advisor). Evaluation of the synergistic cell growth-inhibition effects of drug and Anti-mir delivery by dendrimer nanoparticles on the breast cancer cells in microfluidic based three-dimensional cell culture systems.
15. Ms Fereshteh Gholizadeh (current, advisor). The Correlation Between EMT-TF Zeb-1 and Snail/Twist in Parenchymal Cells of Metastatic PDAC
16. Mr Edris Choopani (2023, advisor).Evaluation of the role of lnc MALAT1 in the expression of Mir-141 and its target genes in CDK4 / 6 signaling pathway in the inhibition of Breast Cancer Stem Cell

17. Mr. Masoud Hasan Zadeh Makouei (2023, advisor) Production of monoclonal antibodies against tumor markers P53 and Ki67 and estrogen and progesterone receptors and their use for classification of tumor cells in breast cancer patients.
18. Mr. Niknam Lakpour (current). Producing antibody against SALL4 as a novel stem cell marker and detection of this protein in serum and semen for testicular carcinomas (joint project with Avicenna Institute)
19. Mrs. Elham Kalantari (2022) Evaluation of specificity and function of antibody against DCLK1 short isoform (DCLK1-S) in colorectal cancer tissues and cell lines.
20. Mrs. Mina Sharbatoghli (2022). Investigation of genomic variations in circulating tumor DNA of ovarian cancer patients before and after chemotherapy. (joint project with Royan Institute)
21. Ms Azin Aghamajidi (2022, advisor). Evaluation of expression and clinical significance of Genes and proteins of MAGE11 and MAGE6 and miR125b and miR34a in bladder cancer patients.
22. Miss Roya Sajed (2022, advisor), The effect of human term placenta extracellular matrix on breast cancer cell line (MDA-MB-231) phenotype
23. Miss Ayna Yazdanpanah (2022, advisor). E effects of 3 dimensional polycaprolactone scaffold conditioned with ECM of breast cancer metastatic cell line (4T1) for recruitment of circulating tumor cells from blood flow
24. Mr Mohammad Reza Mahmoodi (2021, advisor).Specificity and functional features of anti-RTL1 antibodies in liver and breast cancer cell lines
25. Mr Sina Sarsarshahi (2021). Effect of Bortezomib on radiation-induced urinary bladder dysfunction
26. Miss Faezeh Vakhshiteh (2020, advisor). Investigation of dental pulp mesenchymal stem cell-derived exosomes and exoliposomes loaded with miR-34a to suppress breast cancer cells
27. Miss.Elmira Gheitanchi Mashini (2021). The Effect of exosomes secreted from CSCs of invasive colorectal cancer cell line (HT-29) on drug resistance and invasion of Caco-2 cell line.

28. Mrs Maryam Sahlolbei (2021, advisor). Evidence for the involvement of B Cells and antibody in the pathogenesis of multiple sclerosis in immunized mouse with Recombinant Myelin Basic Protein peptide
29. Mrs.Fahimeh Fattahi (2021). The investigation of systemic effects of regulatory factors (LncRNA,miRNA) on colorectal cancer-related gene and protein expression levels in CRC patients and cancer stem cell.
30. Mrs. Somayeh Vafaei (2021). Investigation and comparison of gene expression profiles of circulating tumor (CTCs) and circulating exosomes in patients with metastatic colorectal cancer (joint project with Royan Institute)
31. Mrs. Marzieh Naseri (2020). Evaluation of the ability of colorectal cancer stem cells (CSCs) lysate-and CSC-derived exosomes (CSC-EXOs)-pulsed dendritic cells (DCs) in induction of CSC-specific CTLs as compared to parental cells lysate-and exsosomes-pulsed DCs.
32. Miss. Arezoo Jamali (2021). Evaluation of migration and Anti-tumor Activity of NK CAR-19 cells Overexpressing CXCR4 in B-cell Lymphoma (joint project with Paul-Ehrlich- Institute, Germany)
33. Mrs Zahra Bolandghamat (2020, advisor). Evaluation of miR-154 and miR-381binding on 3'-UTR of (NAMPT) and the effect of these microRNAs on NAMPT gene expression, protein levels and activity of BC cell lines.
34. Mrs. Maryam Mansouri (2019). The study of circulating cancer stem cells in breast cancer patients, befor and after therapy, for monitoring of patients.
35. Miss. Leili Saeednejad Zanjani (2018). Evaluation of biological characteristics and telomerase activitly in cancer stem cell (CSCs) compared with low tumorigenic cells in renal cancer (joint project with Oslo University, Norway).
36. Mrs Arezoo Rasti (2018). Evaluation of SMAD4 silencing effect on stemness characteristics of isolated cancer stem cells from renal carcinoma in comparsion with low tumorogenic cells in renal cancer.
37. Mr. Alireza Mirzaei (2017). Evaluation of local and circulation colorectal cancer markers DCLK1 and Lgr5, using immune-PCR based assay in order to apply in disease monitoring.

38. Mr Alireza Kororian (2016). In vitro study of the role of microRNA-31 (miR-31) in mediating 5-FU chemo- resistance and metastasis of gastric cancer cell line (AGS)

39. Mr. Mehdi Banitalebi Dehkordi (2015). Differentiation of umbilical cord stem cells in to germ cells.
40. Mr. Abbas Karimi (2015).Analysis of the induction of L1 retrotransposon and toxicity by heavy metals on HepG2 (Hepatocellular carcinoma)
41. Mrs. Tahereh Komeili Movahhed. (2014, advisor) Molecular studies of the siRNA effect on the expression and function and function of BCRP and role of PI3K inhibition in drug resistance to Mitoxantrone in cancer stem cells and MCF7 and HT29 cell lines.

42. Miss. Monireh Mohsenzadegan (2015) Targeting extracellular domain of NGEP using polyclonal antibody in prostate cancer.
43. Miss. Raheleh Roudi (2014). Comparison of gene expression and protein detection of cancer stem cells with non-tumorigenic lung cancer cells. (joint project with Royan Institute)
44. Dr. Mehrdad Nasrollah Zadeh Sabet (2014) Gene expression and protein detection of cancer stem cells of Melanoma, skin squamous cell and basal cell carcinoma compared to non-tumorogenic cells using cDNA microarrays and tissue microarrays (joint project with Royan Institute).
45. Miss. Jaleh Taeb (2014) Preparation and application of polyclonal anti PSCA antibody,its conjugation with magnetic nano- particle and assessment of PSCA expression in prostate tissue.
46. Mrs. Zohreh Saltanatpouri (2016, advisor) Enrichment of cancer stem-like cells (CD133+,CD44+) from HT29 cell line using lentivitral vector expressing E-cadherin sh RNA.

47. Mr Sakhaei (2017, advisor). Coenzyme Q10 Ameliorates Trimethyltin Chloride Neurotoxicity in Experimental Model of Injury in Dentate Gyrus of Hippocampus: A Histopathological and Behavioral Study.

48. Mr. Mohammad Javad Eslami Zadeh (2016, advisor) Investigating the neuroprotective effects of melatonin on beta-amyloid 1-42 induced neurotoxicity and the interaction between melatonin and NF-κB in rats.
49. Miss. Samira Danyali (2013, advisor) Evaluating the effect of chronic Ritalin intake on adult rat Medical Frontal Cortex.
50. Mr. Mehdi Khaksari (2012, advisor) Evaluation the effects of Apelin-13 on brain injury, brain edema and apoptosis in experimental model of transient focal cerebral ischemia in male rat.

Pathology Residents supervised

1. Dr Samira Ahmadi (2023). Expression of Talin1 in pancreas carcinomas and its association with clinicopathologic and prognosis.
2. Dr Leila Moradi (2022). Expression and clinical significance of CD166 as cancer stem cell marker in gastric carcinomas.
3. Dr Mrzeieh Shahin (2020). Immunohistochemical study of hTERT (human telomerase reverse transcriptase) in different type of testicular carcinomas.
4. Dr Somayeh Shafiee Foroutagheh (2018) Expression of stem cell marker DCLK1 and its relationship with cliniopathological features of bladder cancer patients.
5. Dr. Shirin Sedaghat (2015) Expression of Cancer Stem Cell Markers OCT4 and its relationship with clinicopathological features of bladder cancer patients.
6. Dr. Hossein Kimousi (2013) The Immunohistochemical evaluation of ALDH1 A1expression and its relation with pathological and clinical characteristics in bladder cancer.
7. Dr. Kambiz Sotoudeh (2012) Expression of C-MET in Gastric Adenoma carcinomas in patients referring to Tehran hospitals.
8. Dr . Adel Karimi (2012). Expression of BRCA1 Protein in Invasive and In Situ Carcinomas and its Relation with Marker of Breast Cancer Stem Cells and Tumor prognostic factors
9. Dr Babak Ramezani (2009) Immunohistochemical investigation of ALDH1 enzyme activity as a functional marker of breast cancer stem cells and progenitor cells and its relationship with tumor pathological characteristics

10. Dr Soheila Nader mohammadi (2017) Associated between P21 and HRAS overexpression and grading, heterogeneity, prognosis, and relapse rate in urothelial cell carcinoma of the bladder.
11. Dr Faezeh Firouzi (2017). The association between overexpression of P53, CK20 and FGFR3 biomarkers and grading ,heterogeneity, and likelihood of prognosis and relapse in urothelial cell carcinoma of the bladder.
12. Dr. Sepideh Razi (2021). Medical students. Exoression of stem cell marker SALL4 and its relationship with cliniopathological features and survival of bladder cancer in patients admitted to Hasheminejad hospital.
13. Dr. Naghmeh Salarieh (2015). Medical student. Investigating the level of cancer stem cell marker (CD44) in prostate tumors and their relationship with tumor pathological characteristics ;Tissue Microarray study
14. Dr. Faezeh Hasani Sadi (2015) Medical student. Immunohistochemical investigation of functional markers of cancer stem cells (ALDH1) in prostate cancer patients and their relationship with tumor pathological features using microarray tissue.
15. Dr Moujan NikPanah (2015). Medical student. Expression level of CD133 marker of stem cells in prostate tumors and their relationship with tumor pathological characteristics; using tissue microarray.