

Laleh Rafiee

Ph.D.

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Education

Shiraz University, Iran	Cellular and Molecular Biology	B.Sc. 2002
Shiraz University, Iran	Cellular and Molecular Biology	M.Sc. 2008
Isfahan University of Medical Sciences, Iran	Pharmaceutical Sciences	Ph.D. 2017

Skills

Cell Culture: 2D and 3D cell culture, Primary cell (CAFs: Cancer Associated Fibroblast) culture, Tumor Spheroid and Organoid culture, Transfection.

Microscopy: Fluorescent and light invert microscope

DNA purification, RFLP- PCR, DNA gel analysis and quantification and analysis, HRM (High Resolution Melting) Method.

RNA purification, cDNA synthesis, RT Real-Time PCR.

Gene Cloning

Flow cytometry, ICC (Immunocytochemistry), Western blotting, ELISA

Microfluidic: Micro fabrication: Photolithography, Soft lithography
working at microfluidic chips

Software: SPSS, Gene Runner ,Beacon designer, Mega4, Rest, Image J

Publications

1. Samandari M, **Rafiee L**, Alipanah F, Sanati-Nezhad A, Javanmard SH. A simple, low cost and reusable microfluidic gradient strategy and its application in modeling cancer invasion. *Sci Rep*. 2021;11(1):89635.
2. Ranjbar M, Salehi R, Haghjooy Javanmard S, **Rafiee L**, Faraji H, Jafarpor S, et al. The dysbiosis signature of *Fusobacterium nucleatum* in colorectal cancer-cause or consequences? A systematic review. *Cancer Cell Int*. 2021;21(1):12935.
3. Hosseini MS, Haghjooy Javanmard S, Dana N, **Rafiee L**, Rostami M. Novel Tocopherol Succinate-Polyoxomolybdate Bioconjugate as Potential Anti-Cancer Agent. *J Inorg Organomet Polym Mater* 2021 317 2021. 31(7):3183–95.
4. Hadady H, Karamali F, Ejeian F, Javanmard SH, **Rafiee L**. AC Electrokinetic Isolation and Detection of Extracellular Vesicles from Dental Pulp Stem Cells: Theoretical Simulation Incorporating Fluid Mechanics This article has been accepted for publication and undergone full peer review. 2021;5–6.
5. Zarin B, **Rafiee L**, Daneshpajouhnejad P, Haghjooy Javanmard S. A review on the role of CAFs and CAF-derived exosomes in progression and metastasis of digestive system cancers. *Tumour Biol*. 2021;43(1):141–57.
6. Javanmard SH, Vaseghi G, Ghasemi A, **Rafiee L**, Ferns GA, Esfahani HN, et al. Therapeutic inhibition of microRNA-21 (miR-21) using locked-nucleic acid (LNA)-anti-miR and its effects on the biological behaviors of melanoma cancer cells in preclinical studies. *Cancer Cell Int*. 2020;20(1):12935.
7. Sadeghi Y, Irani PT, **Rafiee L**, Tajadini M, Amouheidari A, Javanmard S. Evaluation of rs1982073 polymorphism of transforming growth factor- β 1 in glioblastoma. *J Res Med Sci*. 2019;24(1).
8. **Rafiee L**, Hajhashemi V, Javanmard SH. Maprotiline inhibits COX2 and iNOS gene expression in lipopolysaccharide-stimulated U937 macrophages and carrageenan-induced paw edema in rats. *Cent Eur J Immunol*. 2019;44(1):15–22.
9. Naji Esfahani H, **Rafiee L**, Haghjooy Javanmard S. Evaluation of the Effect of Antidepressant Drug, Fluvoxamine, on Cyclooxygenase-2 Protein Expression in Lipopolysaccharide-stimulated Macrophages. *Adv Biomed Res*. 2019;8(1):5.
10. Sheikhbahaei S, Manizheh D, Mohammad S, Hasan TM, Saman N, **Laleh R**, et al. Can MiR-503 be used as a marker in diabetic patients with ischemic stroke? *BMC Endocr Disord*. 2019;19(1):12902.
11. Sadeghi Y, Tabatabaei Irani P, **Rafiee L**, Tajadini M, Haghjooy Javanmard S. Evaluation of rs1957106 Polymorphism of NF- κ BI in Glioblastoma Multiforme in Isfahan, Iran. *Adv Biomed Res*. 2019;8(1):9.
12. Aboutorabi R, Behzadi E, Sadegh MJ, Fatehi SP, Semsarzadeh S, Zarrin Y, **Rafiee L**, et al. The study of association between polymorphism of TNF- α gene's promoter region and recurrent pregnancy loss. *J Reprod Infertil*. 2018;19(4):211–8.
13. Eishi Oskouei A, **Rafiee L**, Mahzouni P, Gharipour M, Javanmard S. Association between autocrine motility factor receptor gene polymorphism (rs2440472, rs373191257) and glioblastoma multiform in a representative Iranian population. *J Res Med Sci* 2018. 23(1).

14. **Rafiee L**, Keshvari M, Atar AM, Hamidzadeh Z, Dashti GR, Rafieian-Kopaei M, et al. Effect of *Gundelia tournefortii* L. on some cardiovascular risk factors in an animal model. *J HerbMed Pharmacol.* 2017;6(4).
15. **Rafiee L**, Hajhashemi V, Javanmard SH. In vitro and in vivo modulation of LPS and carrageenan-induced expression of inflammatory genes by amitriptyline. *J Pharm Pharmacogn Res.* 2017;5(3).
16. Reisi P, Eidelkhani N, **Rafiee L**, Kazemi M, Radahmadi M, Alaei H. Effects of doxepin on gene expressions of Bcl-2 family, TNF- α , MAP kinase 14, and Akt1 in the hippocampus of rats exposed to stress. *Res Pharm Sci.* 2017;12(1).
17. Kelishadi R, Hashemipour M, Esteki B, Tajadini MH, **Rafiee L**, Motlagh ME, et al. Relationship of lipoprotein lipase gene variants & fasting triglyceride levels in a pediatric population: The CASPIAN-III study. *Adv Clin Exp Med.* 2017;26(1):77–82.
18. Vaseghi G, **Rafiee L**, Javanmard SH. Non-viral Delivery Systems for Breast Cancer Gene Therapy. *Curr Gene Ther* 2017. 17(2).
19. Nedaeinia R, Sharifi M, Avan A, Kazemi M, **Rafiee L**, Ghayour-Mobarhan M, et al. Locked nucleic acid anti-MIR-21 inhibits cell growth and invasive behaviors of a colorectal adenocarcinoma cell line: LNA-anti-MIR as a novel approach. *Cancer Gene Ther.* 2016;23(8).
20. Haghjooy-Javanmard S, Pakyari N, **Rafiee L**. Effect of hypoxia on mir-21 and mir-130a expression in murine adipose-derived mesenchymal stem cells in primary and immortality phases. *J Isfahan Med Sch.* 2016;34(369).
21. **Rafiee L**, Hajhashemi V, Javanmard SH. Fluvoxamine inhibits some inflammatory genes expression in LPS/stimulated human endothelial cells, U937 macrophages, and carrageenan-induced paw edema in rat. *Iran J Basic Med Sci.* 2016;19(9).
22. Javanmard SH, Dehghananzadeh R, **Rafiee L**, Naji H, Rezayat A, Sarrafzadegan N. Genetic associations of the visfatin G-948t polymorphism with obesity-related metabolic traits in an Iranian population. *J Res Med Sci.* 2016;21(7).
23. Dana N, Javanmard SH, **Rafiee L**. Role of peroxisome proliferator-activated receptor alpha and gamma in antiangiogenic effect of pomegranate peel extract. *Iran J Basic Med Sci.* 2016;19(1).
24. **Rafiee L**, Hajhashemi V, Javanmard SH. Maprotiline inhibits LPS-induced expression of adhesion molecules (ICAM-1 and VCAM-1) in human endothelial cells. *Res Pharm Sci* 2016.
25. **Rafiee L**, Shokouh P, Roohafza H, Mansourian M, Javanmard S. Association of glutathione S-transferases M1 and T1 gene polymorphisms with the risk of metabolic syndrome in an Iranian population. *Adv Biomed Res.* 2016;5(1):63.
26. Dana N, Javanmard SH, **Rafiee L**. Antiangiogenic and antiproliferative effects of black pomegranate peel extract on melanoma cell line. *Res Pharm Sci.* 2015;10(2).
27. Hendijani F, Javanmard SH, **Rafiee L**, Sadeghi-Aliabadi H. Effect of human Wharton's jelly mesenchymal stem cell secretome on proliferation, apoptosis and drug resistance of lung cancer cells. *Res Pharm Sci.* 2015;10(2).
28. Shajarian M, **Rafiee L**, Naji-Esfahani H, Haghjooy-Javanmard S, Nizal S. Association of RBP4 gene variants with adverse lipid profile and obesity. *Gene.* 2015;561(1).
29. Eidelkhani N, Radahmadi M, Kazemi M, **Rafiee L**, Alaei H, Reisi P. Effects of doxepin on brain-derived neurotrophic factor, tumor necrosis factor alpha, mitogen-activated protein kinase 14, and

- AKT1 genes expression in rat hippocampus. *Adv Biomed Res.* 2015;4(1):203–203.
30. Javanmard S, Bahrambeigi V, **Rafiee L**, Golzar F. The effect of Kisspeptin-10 on mesenchymal stem cells migration in vitro and in vivo. *Adv Biomed Res [Internet].* 2015 [cited 2022 Feb 14];4(1):20. Available from: <https://pubmed.ncbi.nlm.nih.gov/25709985/>
 31. Hoseini SG, Javanmard SH, Hejazi SH, **Rafiee L**, Zarkesh SH, Karbalaii K, et al. Comparison of immune regulatory factors in acute and chronic lesions of cutaneous leishmaniasis due to *Leishmania major*. *J Res Med Sci.* 2014;19(SPEC. ISSUE).
 32. **Rafiee L**, Abedini M, Javanmard SH, Sarrafzadegan N, Mansourian M. Association of GSTT1 and GSTM1 polymorphisms with blood pressure: A Bayesian modeling of continuous data. *J Res Med Sci.* 2014;19(3):200–4.
 33. Aboutorabi R, Mazani F, **Rafiee L**. Evaluation of CD52 positive sperms in subfertile human semen samples: Is there any relationship with main semen parameters? *Adv Biomed Res.* 2014;3(1):124.
 34. Motaghi M, Haghjooy Javanmard S, Haghdoost F, Tajadini M, Saadatnia M, **Rafiee L**, et al. Relationship between vitamin D receptor gene polymorphisms and migraine without aura in an Iranian population. *Biomed Res Int.* 2013;2013.
 35. Bahrambeigi V, **Rafiee L**, Javanmard SH, Salehi R, Tajadini MH, Daraei A. Comparison of Mir-211 expression in murine melanoma cell line and murine melanoma tumor by real-time polymerase chain reaction. *J Isfahan Med Sch.* 2012;30(207).
 36. Hoseini SG, Javanmard SH, Zarkesh SH, Khamesipour A, **Rafiee L**, Karbalaie K, et al. Regulatory T-cell profile in early and late lesions of cutaneous leishmaniasis due to *leishmania major*. *J Res Med Sci.* 2012;17(6).
 37. Poursafa P, Kelishadi R, Haghjooy-Javanmard S, **Rafiee L**, Keramatian K. Synergistic effects of genetic polymorphism and air pollution on markers of endothelial dysfunction in children. *J Res Med Sci.* 2012;17(8).
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 39. **Rafiee L**, Saadat M. Prevalence of consanguineous marriages among iranian georgians. *J Biosoc Sci.* 2011;43(1).
 40. Poursafa P, Kelishadi R, Moattar F, **Rafiee L**, Amin MM, Lahijanzadeh A, et al. Genetic variation in the association of air pollutants with a biomarker of vascular injury in children and adolescents in Isfahan, Iran. *J Res Med Sci* 2011. 16(6):733.
 41. **Rafiee L**, Saadat I, Saadat M. Glutathione S-transferase genetic polymorphisms (GSTM1, GSTT1 and GSTO2) in three Iranian populations. *Mol Biol Rep.* 2010;37(1).
 42. **Rafiee L**, Mohsenzadeh S, Saadat M. NONRANDOM GENE DISTRIBUTION ON HUMAN CHROMOSOMES. *EXCLI J.* 2008;7:151–3.