

CURICULUM VITAE

Personal Information

First name: Nasim

Data of Birth: 16.08.1981

Nationality: Iranian

Office Address: Applied Physiology Research Center, Isfahan University of Medical Sciences, Isfahan, Iran.

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Education

- **Ph.D of Biomedical sciences**, Isfahan University of Medical Sciences
 - Thesis title: Evaluation of anticancer effect of Peroxisome Proliferator-activated receptors via Toll-like receptor 4 in melanoma in vitro and in vivo
- **Msc of Animal biology**, Payame Noor University of Isfahan.
 - Thesis title: Investigation of the mechanism of antiangiogenic effect of pomegranate peel extract (*Punica granatum* L.) via Peroxisome proliferator activated receptor-gamma and alpha(PPAR- γ , α) on human umbilical endothelial cells (HUVEC)
- **Bsc of Microbiology**, Islamic Azad University of Falavarjan

Data Documentation

Google Scholar

https://scholar.google.com/citations?hl=en&user=TBTIpb8AAAAJ&view_op=list_works&sortby=pubdate

Scopus

<https://www.scopus.com/authid/detail.uri?authorId=55258186300>

Employer

Applied physiology research center, Isfahan University of Medical Sciences (since 2006 until now)

Current position

Head of cell culture lab, applied physiology research center, Isfahan University of Medical Sciences

Publications

1. Vaseghi G, **Dana N**, Ghasemi A, Abediny R, Laher I, Haghjooy Javanmard SH. Morphine promotes migration and lung metastasis of mouse melanoma cells. *Braz J Anesthesiol* 2022 Feb 1;S0104-0014(22)00001-X.doi: 10.1016/j.bjane.2021.10.019.
2. Rahimmanesh I[†], Shariati L[†], **Dana N**, Esmaeeli Y, Vaseghi G, Haghjooy Javanmard SH. Cancer Occurrence as the Upcoming Complications of COVID-19. *Frontiers Molecular Biosciences.*, 28 January 2022.
3. Gholaminejad A[†], Zare N[†], **Dana N**, Shafie D, A Mani, Javanmard SH. A meta-analysis of microRNA expression profiling studies in heart failure. *Heart Failure Reviews*, 2021 Jul;26(4):997-1021.
4. Malek M, Ghasemi M, Vaseghi G, Ghasemi A, Naji Esfahani H, **Dana N**. Atorvastatin enhances the antitumor activity of tamoxifen in B16f10 mouse melanoma cell lines. *Physiology and pharmacology* 2021, 25(1): 83-91.
5. Malek M, **Dana N**, Ghasemi A, Ghasemi M. The antagonistic atorvastatin-glibenclamide interactions suppressed the atorvastatin-induced Bax/cytochrome c/p53 mRNA expressions and increased Rho A mRNA expression in B16f10 melanoma cell culture. *Gene Reports* June 2021;23(3):101156
6. Yegdaneh A, Mirian M, **Dana N**, Taheri M. Holothurin B Isolated from *Holothuria atra* Inhibits Angiogenesis More Potent than Curcumin in Vitro. *Research Journal of Pharmacognosy* Summer 2021; 8 (3), 33-40
7. Hosseini MS, Javanmard SH, **Dana N**, Rafiee L, Rostami M. Novel Tocopherol Succinate-Polyoxomolybdate Bioconjugate as Potential Anti-Cancer Agent. *Journal of Inorganic and Organometallic Polymers and Materials*, July 2021; 31(7):1-13.
8. **Dana N**, Vaseghi G, Javanmard SH. Activation of PPAR γ Inhibits TLR4 signal transduction pathway in melanoma cancer in vitro. *Advanced Pharmaceutical Bulletin* 2020 Jul;10(3):458-463.
9. Naderi J, **Dana N**, Javanmard SH, Amoohedari A, Yahay M, Vaseghi G. Effects of standardized Cannabis sativa extract and ionizing radiation in melanoma cells in vitro. *Journal of Cancer Research and Therapeutics* 16 (6), 1495.
10. Hosseini MS, Javanmard SH, Rafiei L, Hariri AA, **Dana N**, Rostami M. Anti-Cancer Activity of Biotin-Polyoxomolybdate Bioconjugate. *Eurasian journal of medicine and oncology* 2020 Oct-Dec;16(6):1495-1499
11. **Dana N**, Javanmard SH, Vaseghi G. The effect of fenofibrate, a PPAR α activator on toll-like receptor-4 signal transduction in melanoma both in vitro and in vivo. *Clinical and Translational Oncology*, 2020 Apr;22(4):486-494.
12. **Dana N**, Vaseghi G, Javanmard SH. PPAR γ agonist, pioglitazone, suppresses melanoma cancer in mice by inhibiting TLR4 signaling. *Journal of Pharmacy & Pharmaceutical Sciences* 2019;22(1):418-423
13. **Dana N**, Karimi R, Mansourian M, Javanmard SH, Laher I, Vaseghi G. Magnesium intake and lung cancer risk: A systematic review and meta-analysis. *International Journal for Vitamin and Nutrition Research* 2021 Sep;91(5-6):539-546.
14. Hassanzadeh F, Sadeghi-Aliabadi H, Jafari E, Sharifzadeh A, **Dana N**. Synthesis and cytotoxic evaluation of some quinazolinone-5-(4-chlorophenyl) 1, 3, 4-oxadiazole conjugates. *Research in pharmaceutical sciences* 2019 Oct 4;14(5):408-413.

15. Safaeian L, Vaseghi G, Jabari H, **Dana N**. Evolocumab, a proprotein convertase subtilisin/kexin type 9 inhibitor, promotes angiogenesis in vitro. *Canadian journal of physiology and pharmacology* 2019 May;97(5):352-358.
16. Taherian E, Khodarahmi G, Khajouei MR, Hassanzadeh F, **Dana N**. Synthesis and cytotoxic evaluation of novel quinoxalinone derivatives with substituted benzimidazole in position 3. *Research in pharmaceutical sciences* 2019 Jun;14(3):247-254.
17. SB Dehkordi, F Hassanzadeh, MR Khajouei, H Sadeghi, **N Dana**. Synthesis and Cytotoxicity Evaluation of Some New 4-(4oxo-4H-Quinazoline-3yl)-Thiobenzoic Acid-S-(1-H-Benzimidazole-2-Yl) Ester Derivates. *Organic & Medicinal Chemistry International Journal* 2019;8 (5), 133-138
18. Vaseghi G, Zakeri N, Mazloumfard F, Yegdaneh A, **Dana N**. Evaluation of the Anti-tuberculosis and Cytotoxic Potential of the Seaweed *Padina australis*. *Iranian Journal of Pharmaceutical Sciences* 2019; 15 (1): 29-38.
19. **Dana N**, Javanmard SH, Vaseghi G. Crosstalk between Peroxisome Proliferator-Activated Receptors and Toll-Like Receptors: A Systematic Review. *Advanced pharmaceutical bulletin*, 2019 Feb;9(1):12-21.
20. Hassanzadeh F, Mahmoudi E, Varshosaz J, Khodarahmi GA, Rostami M, Ghanadian M, **Dana N**. Novel NGR anchored pullulan micelles for controlled and targeted delivery of doxorubicin to HeLa cancerous cells. *Iranian Polymer Journal* 2018;27 (4), 263-274.
21. Vaseghi G, Hajakbari F, Sajjadi S, **Dana N**, Ghasemi A, Yegdaneh A. Cytotoxic Screening of Marine Organisms from Persian Gulf. *Advanced biomedical researches* 2018; 7:108.
22. Haghjooy-Javanmard S, Ghasemi A, Laher I, Zarrin B, **Dana N**, Vaseghi G. Influence of morphine on TLR4/NF- κ B signaling pathway of MCF-7 cells. *Bratislava medical journal-bratislavske lekarske listy* 2018; 119 (4) .
23. Vaseghi G, Sharifi M, **Dana N**, Ghasemi A, Yegdaneh A. Cytotoxicity of *Sargassum angustifolium* Partitions against Breast and Cervical Cancer Cell Lines. *Advanced biomedical researches*. 2018; 7:43.
24. Pakravan K, Babashah S, Sadeghizadeh M, Mowla SJ, Mossahebi-Mohammadi M, Ataei F, **Dana N**, Javan M. MicroRNA-100 shuttled by mesenchymal stem cell-derived exosomes suppresses in vitro angiogenesis through modulating the mTOR/HIF-1 α /VEGF signaling axis in breast cancer cells. *Cellular oncology* 2017; 40 (5), 457-470
25. **Dana N**, Javanmard SH, Vaseghi G. Effect of lipopolysaccharide on toll-like receptor-4 signals in mouse cancer cells. *Bratislavske lekarske listy journal* 2017; 118 (10), 598-601
26. Vaseghi G, Jafari E, Hassanzadeh F, Haghjooy-Javanmard S, **Dana N**, Rafieian-Kopaei M. Cytotoxic Evaluation of Some Fused Pyridazino-and Pyrrolo-quinazolinones Derivatives on Melanoma and Prostate Cell Lines. *Advanced biomedical researches*. 2017 Jun 27; 6:76.
27. **Dana N**, Tajaddini MH, Javanmard SH, Jafari E, Abed A, Jamadi M, Vaseghi G. Cannabis sativa Extract Reduces Cytoskeletal Associated Proteins in Breast Cancer Cell Line. *International journal of cancer management*. 2017; 10(5):e5474.
28. **Dana N**, Javanmard SH, Rafiee L. Comparison of the Apoptosis Induction Effect of Pomegranate Peel Extract on Human Umbilical Vein Endothelial Cells and Melanoma. *Journal of isfahan medical school (I.U.M.S)* 4TH WEEK MARCH 2016 , Volume 33 , Number 368; Page(s) 2461 To 2468.
29. **Dana N**, Javanmard SH, Rafiee L. Role of peroxisome proliferator-activated receptor alpha and gamma in antiangiogenic effect of pomegranate peel extract. *Iranian journal of basic medical sciences* 2016; 19:106-110

30. Taymouri S, Varshosaz J, Hassanzadeh F, Javanmard SH, **Dana N**. Optimisation of processing variables effective on self-assembly of folate targeted Synpronic-based micelles for docetaxel delivery in melanoma cells. *IET nanobiotechnology* 2015;9 (5), 306-313
31. Mirian M, Behrooeian M, Ghanadian M, Dana N, Sadeghi-Aliabadi H. Cytotoxicity and antiangiogenic effects of *Rhus coriaria*, *Pistacia vera* and *Pistacia khinjuk* oleoresin methanol extracts. *Research in pharmaceutical sciences* 2015; 10 (3), 233
32. **Dana N**, Javanmard SH, Rafiee L. Antiangiogenic and antiproliferative effects of black pomegranate peel extract on melanoma cell line. *Research in Pharmaceutical Sciences*, April 2015; 10(2): 117-124
33. Safaeian L, Javanmard SH, Mollanoori Y, **Dana N**. Cytoprotective and antioxidant effects of human lactoferrin against H₂O₂-induced oxidative stress in human umbilical vein endothelial cells. *Advanced biomedical researches*. 2015 Aug 31;4:188
34. Khazaei M, Kalantari E, Saeidi H, ShabaniKia N, Tahergorabi Z, Rashidi B, **Dana N**, Javanmard SH. Gamma-secretase inhibitor does not modulate angiogenesis in colon adenocarcinoma in obese mice. *Bratislava medical journal-bratislavske lekarske listy*. 2015;116(4):248-51.
35. Nilforoushzadeh MA, Javanmard SH, Ghanadian M, Asghari G, Jaffary F, Yakhdani AF, **Dana N**, Fatemi SA. The effects of *Adiantum capillus-veneris* on wound healing: An experimental in vitro evaluation. *Int J Prev Med*. 2014 Oct;5(10):1261-8.
36. **Dana N**, Safavi S, Nili N, Tabatabaei S, Ebrahim B, Javanmard SH. Histological and biochemical characteristics of arteries and veins in patients candidate for coronary bypass surgery. *Tehran University Medical Journal TUMS Publications* 2014; 72 (6), 379-388
37. Haghjooy-Javanmard S, Sadeghi M, Safavi S, Gheraati M, **Dana N**. Prognostic value of the high-mobility group box-1 in young patients with chest pain. *ARYA atherosclerosis* 2013; 10 (3), 154
38. Ghanadian SM, Ayatollahi AM, Afsharypuor S, Javanmard SH, **Dana N**. New mirsinane-type diterpenes from *Euphorbia microsciadia* Boiss with inhibitory effect on VEGF-induced angiogenesis. *Journal of natural medicines* 67 (2), 327-332
39. Shahbazi-Gahrouei D, Ghasemian Z, Abdolahi M, Manouchehri S, Javanmard SH, **Dana N**. In vitro evaluation of cobalt-zinc ferrite nanoparticles coated with DMSA on human prostate cancer cells. *J Mol Biomark Diagn* 2013;4 (3), 154
40. **Dana N**, Javanmard SH, Fazilati M, Pilehvarian AA. A comparison of peroxisome proliferator-activated receptor- α agonist and antagonist on human umbilical vein endothelial cells angiogenesis. *Advanced biomedical researches*. 2013; 2:54.
41. Kalantari E, Saeidi H, Kia NS, Tahergorabi Z, Rashidi B, **Dana N**, Khazaei M. Effect of DAPT, a gamma secretase inhibitor, on tumor angiogenesis in control mice. *Advanced biomedical researches*. 2013; 2:83.
42. **Dana N**, Javanmard Sh, Fazilati M, Pilehvarian AA. Anti-Angiogenic Effects of Pomegranate Peel Extract (*Punica Granatum L.*) on Human Umbilical Vein Endothelial Cells. *Journal of Isfahan Medical School*, Vol. 30, No. 195, 1st week, September 2012
43. **Dana N**, Javanmard SH, Asgary S, Asnaashari H, Abdian N. The effect of Aloe vera leaf gel on fatty streak formation in hypercholesterolemic rabbits. *J Res Med Sci*. 2012;17(5):439-42.
44. Javanmard SH, Nematbakhsh M, Fegghi A, **Dana N***. Hyperinsulinemia may have a protective role in the early stages of atherosclerosis in rabbit model of hypercholesterolemia. *J Diabetes Metab Disord*. 2012 2; 11(1):5.

45. **Dana N**, Haghjooy Javanmard Sh, Asgary S, Asnaashari H, Abdian N. Anti-Atherosclerotic Effects of Aloe Vera in Hypercholesterolemic Rabbits. *Journal of Babol University of Medical Sciences*. 2012; 14(4):5.
46. Haghjooy Javanmard Sh, **Dana N**, Saadatnia M, Maghzi AH. Effect of the Sera of Patients with Multiple Sclerosis on Apoptosis and Nitric Oxide Production of Endothelial Cells. *Journal of Kerman University of Medical Sciences*, 2012; 19(6): 520-530

International congress presentation

- **Dana N**, Javanmard SH, Vaseghi G. Antagonistic effect of plant components on Toll like receptor 4 signaling in cancer (4rd International Congress on Biomedicine (ICB2020) oral)
- **Dana N**, Javanmard SH, Vaseghi G. Association between toll like receptor 4 and response to chemotherapy drugs in breast cancer. International congress of Isfahan biomedical sciences 2020.
- **Dana N**, Javanmard SH, Vaseghi G. Crosstalk between peroxisome proliferator-activated receptor alpha agonist and toll-like receptor 4 in mouse melanoma cancer (3rd International Congress on Biomedicine (ICB2019) oral)
- **Dana N**, Javanmard SH, Vaseghi G. Pioglitazone inhibits melanoma tumor growth in vivo via interfering with the TLR4 signaling pathways (3rd International Congress on Biomedicine (ICB2019) oral)
- Mohadeseh Taheri, Afsaneh Yegdaneh, Leila Safaeian, Mina Mirian, **Nasim Dana**. The effect of holothurin B on endothelial cell proliferation, migration and tubulogenesis. 4th international congress on pharmacy updates 2021
- H Jabari, L Safaeian, G Vaseghi, **N Dana**. Evolocumab, a pcsk 9 inhibitor, promotes angiogenesis in vitro. 2nd international congress on Biophrama (2018)
- Seifabadi S, Naderi J, **Dana N**, Haghjooy Javanmard S, Amooheidari A, Vaseghi G. Effects of Cannabis sativa extract and radiation in melanoma cells in vitro. 1st International Conference on Medicine, Public Health and Biological Sciences (MPHBS), Sep. 2016.
- **Dana N**, Haghjooy Javanmard S, Rafiee L. Inhibition of melanoma cell growth and angiogenesis by Punica granatum peel extract. 3rd World Congress on Cancer Science & Therapy. *J Cancer Sci Ther* 2013, October 21-23, USA.
- Javanmard SH, **Dana N**, Saadatnia M, Maghzi AH. Effect of the Sera of Patients with Multiple Sclerosis on vascular endothelium function. The 9th International MS Congress of IRAN, Nov 2012.
- **Dana N**, Javanmard SH, Vaseghi G. Effect of Bacterial lipopolysaccharide on Toll-like receptor -4 signaling in mouse cancer cell lines. West Asia Cancer Conference Nov 2016.
- **Dana N**, Javanmard SH, Asgary S, Esnaashari H, Abdian N. The effect of Aloe Vera on the hypercholesterolemia and development of atherosclerosis. 4th International congress of Biochemistry and Molecular Biology, IRAN, Oct 2011. *Clinical Biochemistry* Vol 4, Issue 13s.
- Javanmard SH, Nematbakhsh M, Monejemi A, **Dana N**. L-Arginine supplementation influences nitrite but not nitrate and total nitrite in rabbit model of hypercholesterolemia. 2th International congress of Biochemistry and Molecular Biology, IRAN, Sep 2007. *Archives of Iranian medicine*. Vol 10, Number 4
- **Dana N**, Javanmard SH, Vaseghi G. International Congress on Biomedicine. 2017. Toll-like receptor 4 mediates cross-talk between peroxisome proliferator-activated receptor γ and nuclear factor- κ B in mouse melanoma (B16F10) in vitro.
- **Dana N**, Javanmard SH, Vaseghi G. Effect of endotoxin on melanoma tumor growth and TLR4 expression. 2nd International Congress on Biomedicine. 2018

• Projects

Principle investigator

1. Meta-analysis of microRNA expression profiling studies in heart failure
2. Magnesium intake and incidence of lung cancer: systematic review and meta-analysis
3. Investigating effect of Aloe vera leaf gel on some parameters of Atherosclerosis in hypercholesterolemic rabbits
4. Investigating effect of Aloe vera on inflammatory factors of Atherosclerosis in hypercholesterolemic rabbits.
5. Investigation of the mechanism of antiangiogenic effect of Black pomegranate peel extract (*Punica granatum* L.) through Peroxisome proliferator activated alpha receptor (PPAR- α) on HUVEC cells
6. Investigation of the mechanism of antiangiogenic effect of Black pomegranate peel extract (*Punica granatum* L.) through Peroxisome proliferator activated gamma receptor (PPAR- γ) on HUVEC cells
7. Investigation the Effect of *Punica granatum* L. peel extract via Peroxisome Proliferator-activated Receptor - γ , α agonist and antagonist on Vascular Endothelial Growth Factor mRNA expression in Human Umbilical Vein Endothelial Cells
8. Investigation the effect of pomegranate peel extract, black on apoptosis of endothelial cells
9. Inhibitory effect of black pomegranate peel extract, on melanoma cancer cell line proliferation in vitro and comparison with endothelial cells
10. Evaluation of anti-proliferative effect of tetrahydrocannabinoid with radiotherapy on mouse melanoma B16F10 cells in vitro compared with human umbilical cord endothelial cells

Co- investigator

1. Synthesis of Alpha Tocopherol succinate-PolyoxomolybdateHybride Bio-Conjugate as a novel potential cytotoxic agent
2. Effect of Alirocumab as a PCSK9 inhibitor on angiogenesis in vitro
3. Effect of morphine on tlr4 in mice model of melanoma
4. Evaluation of anticancer effect of peroxisome proliferator-activated receptor via Toll-like receptor 4 in melanoma *in vitro* and *in vivo*
5. Inhibitory effect of, some of synthesized new derivatives of quinazolinones on melanoma cancer cell line proliferation in vitro
6. The effect of Tetrahydrocannabinol in order to reduce cytoskeletal associated protein in breast cancer cells
7. Synthesis and cytotoxic evaluation of some new 3-(2-Phenyl-1H-benzimidazol-5-yl)-3H-quinazolin-4-one derivatives
8. Cytotoxic screening of the seaweed *Sargassum angostifolium*
9. Investigating the Interfering Role of glibenclamide (ATP-sensitive Potassium inhibitor) on Atorvastatin Function in Melanoma Cancer Cells: Apoptotic and Metastatic Mechanisms
10. The effect of morphine on metastasis and cytokines level in MDA-MB-231 breast cancer cell line
11. Investigation of the effect of peroxisome proliferator-activated receptor agonists (PPARs) on the production of proinflammatory cytokines in an animal model of melanoma cancer
12. Investigation of Interferon-beta protective effects against multiple sclerosis-induced endothelial cells apoptosis
13. Acute and chronic effects of natural Orange and commercial Orange juice consumption in endothelium function and inflammatory factors in hypertensive patients.
14. Study of the relationship of c-reactive protein(CRP) in atherosclerotic plaques and serum concentration of CRP and its relationship with vulnerable plaques indexes

15. Association of high mobility group box 1 as Biomarkers with angiographic severity and extent of coronary artery disease: a prospective study
16. The effect of pomegranate peel extract on macrophage infiltration through PPAR- α and PPAR- γ receptors in the mouse model of melanoma
17. Evaluation of salsalate (non-acetylated salicylate) for improvement of endothelial dysfunction in impaired fasting glucose and new case of diabetes mellitus type 2
18. The therapeutic role of L- arginine in endothelial dysfunction in hypercholesterolemic rabbit model with coronary stenosis
19. The role of L-arginine in increasing the number of endothelial progenitor cells and enhancing angiogenesis in the animal model of hypercholesterolemia
20. Effects of interferon gamma on nitric oxide production from endothelial cells and apoptosis
21. Evaluation of the effect of oral L-arginine administration in hypercholesterolemic model in the process of endothelial dysfunction Nitrate or nitrite which is more affected?
22. The effect of pomegranate peel extract on melanoma tumor angiogenesis through ppar gamma and ppar alpha receptors in mouse model of melanoma
23. Evaluation of the expression level of miR-146a as a diagnostic biomarker for cardiotoxicity induced by chemotherapy regimen in patients with breast cancer
24. Evaluation of miR-3135b-5p expression as a diagnostic biomarker of cardiac toxicity in blood sample of patients with chemotherapy-treated breast cancer
25. Synthesis and cytotoxic evaluation of 4-(4-Oxo-4H-quinazolin-3-yl)-thiobenzoic acid S-(1H-benzoimidazol-2-yl) ester derivatives
26. Investigation the interfered role of statin on tamoxifen therapy in melanoma cells induced by TNF- α ,Rho ,RAC, p53 و Ras
27. Cytotoxic analysis of fractions from the sea cucumber *Holothuria leucospilota*
28. Prevalence of cancer in familial hypercholesterolemia and their families and the effect of lipid lowering drugs in patients referred to the Isfahan Cardiovascular Institute
29. Evaluation of the effect of podoplanin on platelet adhesion and aggregation in melanoma cell lines

Laboratory skills

- Cell culture techniques
- Angiogenesis assay
- Migration assay
- Cytotoxicity test (MTT assay)
- Molecular biology techniques (real time PCR, RNA extraction, cDNA synthesis, ...)
- Elisa
- Immunohistochemistry
- Induction of melanoma animal model

Software skills

- Angioquant software
- Image J software
- SPSS
- Microsoft Office

Honors and Awards

- Ranked 1st for GPA among Ph.D by research students-2013 in Isfahan University of Medical Sciences
- Achieving top thesis points to financially support the postgraduate thesis of the Ministry of Health, Treatment and Medical Education.
- Achieving top thesis points for financial support from the Iran National Science Foundation (INSF)
- Top Poster Award at the First Regional Biology Conference of Free Universities in Region 4
- Top researcher with the highest level of research activity in the 2011-2012 academic year in Isfahan University of Medical Sciences (from Physiology Research Center)
- Top non-faculty member researcher of Isfahan University of Medical Sciences (with the highest number of articles from Physiology Research Center) (2013)

Research Interests

- Molecular mechanisms and pathways that are involved in cancer
- Role of Peroxisome proliferator activated receptor in cancer
- Melanoma cancer research
- The Role of tumor microenvironment in tumor progression and metastasis

Academic Experiences

- Teaching and assistance in Systems biology workshop, Regenerative Medicine Lab, Kidney Diseases Research Center, Isfahan University of Medical Sciences-2014
- Teaching cell culture to M.Sc students in department of immunology, Isfahan University of Medical Sciences 2011
- Teaching cell culture to M.Sc students of Malek Ashtar University. 2012
- Teaching cell culture to medical and graduate students in for Medical Education Research and Development Center of Isfahan University of Medical Sciences 2016
- Teaching cell culture to medical and graduate students in Applied Physiology Research Center, Isfahan University of Medical Sciences. 2016

Review for Journals

Journal of Extracellular Vesicles

Journal of Integrative Medicine

Canadian Journal of Physiology and Pharmacology

Phytotherapy Research

Advanced Biomedical Research

Participation in Workshops

- From cell seeding to analysis-getting the best out of your cell- based assay, Iranian molecular medicine network, June 2020
- Internal audit and quality management system in medical laboratories, Iranian molecular medicine network, July2020
- Bioinformatics workshop, ICB training course, August 2019

- Cell culture, Pasteur institute of Iran, December 2017
- Cancer Cell Detection and Isolation Biological and Vaccination Research Institute, December 2018
- Meta-analysis, Isfahan University of medical sciences, September 2016
- Immunohistochemistry&Immucytochemistry, SABZ Biomedical Science-Based Company, December 2012
- Seminar on systematic review held, Isfahan University of medical sciences, October 2012
- Course on medical journal publishing, Isfahan University of medical sciences, December 2012
- Real Time PCR Workshop, Isfahan University of medical sciences, September 2009
- Angiogenesis models workshop, Kermanshah University of medical sciences, October 2008