

Curriculum Vitae (CV)

Personal detail

Name: Flora

Surname: Forouzesh

Nationality: Iranian

Specialization: Molecular Genetics

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Work Address: Department of Genetics, Faculty of Advanced Science and Technology, Tehran Medical Sciences, Islamic Azad University, Tehran, Iran.

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Education

B.Sc.

Biology, Shahid Beheshti University. Tehran, Iran (**score: first rank, 18.33 from 20**)

M.Sc.

Cellular and Molecular Biology, Khatam University. Tehran, Iran (**score: first rank, 19.26 from 20**)

PhD

Molecular Genetics, Science & Research branch, Azad University. Tehran, Iran. (**score: first rank, 18.34 from 20**)

February-October 2010

Research at Cancer Center Karolinska (CCK), Karolinska Hospital University, Stockholm, Sweden.

Postdoctoral Research Fellowship (January 2014- January 2015)

Iran- Pasteur Institute

Areas of Interest & Research Activities

Cancer Genetics

Immunogenetics

Molecular Biology and Genetics

Cell signaling

Pharmacogenetics and cancer

Biotechnology

Thesis

B.Sc. thesis: Study the morphology and embryonic development of double yolk eggs (white leghorn, highline, W36).

M.Sc. thesis: Identification and sequencing of the voltage gated sodium channel gene in the main Iranian malaria vectors (*An. culicifacies*, *An. stephensi* and *An. fluviatilis*) and monitoring insecticide resistance for malaria control.

PhD. thesis: Molecular characterization of a novel transcript of Ror1 receptor tyrosine kinase in chronic lymphocytic leukemia, and establishment of a recombinant expression construct for in-Vitro studies.

Publications

Published in Journal

1. Djadid ND, Forouzes F, Mohsen Karimi, Raeisi A, Abdoulghaffar Hassan-Zehi and Zakeri S. Monitoring pyrethroid insecticide resistance in major malaria vector *An. culicifacies*: comparison of molecular tools and conventional susceptibility test. **Iranian Biomedical Journal (IBJ)**, 11(3):169-176, 2007. (ISI)
2. Djadid ND, Barjesteh H, Forouzes F, and Zakeri S. Determination of glutathione S-transferase e2 region (GSTe2) in DDT susceptible and resistant *An. stephensi* populations: significance and application of nucleotide and amino acid comparison. **Iranian Journal of Biotechnology (IJB)**, 6(2): 92-97, 2008. (ISI)
3. Shamsipour F, Zarnani AH, Ghods R, Chamankhah M, Forouzes F, Vafaei S, Bayat AA, Akhondi MM, Oghabian MA, and Jeddi-Tehran M. Conjugation of monoclonal antibodies to super paramagnetic iron oxide nanoparticles for detection of her2/neu antigen on breast cancer cell lines. **Avicenna Journal of Medical Biotechnology (AJMB)**, 1(1): 27-31, 2009. (ISI)
4. Rabbani H, Ostadkarampour M, Danesh Manesh AH, Basiri A, Jeddi-Tehrani M and Forouzes F*. Expression of ROR1 in Patients with Renal Cancer-A Potential Diagnostic Marker. **Iranian Biomedical Journal (IBJ)**, 14(3):77-82, 2010. (ISI)
5. Forouzes F, Shakeri Tabarian S, Emami Sh, Jeddi –Tehrani M, Hadavi R, Rabbani H. Construction and stable expression of a truncated human receptor tyrosine kinase Ror1 (Ror1-ECD). **Avicenna Journal of Medical Biotechnology (AJMB)**, 4(1): 41-45, 2012. (ISI)

6. Moheb-Alian A, Forouzes F, Rostami-Nejad M, Rostami K. Mesenchymal stem cells as potential therapeutic approaches in celiac disease. **Gastroenterology and Hepatology From Bed to Bench**, 9 (Suppl. 1): S1–S7, 2016. (ISC, PubMed, scopus)
7. Agharezaee N, Forouzes F*. The Role of Cancer Stem Cells in malignancies: Properties, Function and Origin. **J of Jiroft University of Medical Sciences**, 3(2), 95-106, Sep 2017.
8. Pezeshkian Z, Forouzes F, Peyravian N, Yaghoob-Taleghani M, Asadzadeh-Aghdaei H, Zali M.R, Nazemalhosseini-Mojarad E. Clinicopathological correlations of VEGF-A and MMP-7 genes expression in different types of colorectal adenoma polyps. **World Cancer Research Journal (WCRJ)**, 4 (4): e978, 2017. (ISI listed)
9. Kia FS, Nazemalhosseini Mojarad E, Forouzes F*. A quantitative investigation of the *Bid* Gene expression in biopsies from colorectal adenomas. **Journal of Tehran University of Medical Journal**, 76(2), 120-128, May 2018. (ISC, Scopus)
10. Pezeshkian , Nazemalhosseini Majored E, Forouzes F. Comparing the Expression Level of Vegf-A Gene in Adenoma Polyps Located in Colon and Rectum. **Journal of Knowledge & Health, Shahroud University of Medical Sciences**, 13(1), 65-70, 2018.
11. Forouzes F*, Sadeghi V, Baghaei K, Rajabbeigi E, Nazemalhosseini Mojarad E. Cytotoxic Activity of the Root of *Euphorbia Tehranica* Ethanolic Extract Against Caco-2 Colorectal Cancer Cell Line. **Multidiscip Cancer Investig**, 2(2): 1-7, 2018. (ISC)
12. Forouzes F*, Talebi S, Shahbazi N. Investigating Anticancer effects of sodium butyrate on human colon cancer Caco2 cell line. **Journal of Fasa University of Medical Sciences**, 8(2), 735-745, 2018. (ISC)
13. Khatibi S, Nazemalhosseini E, Forouzes F, Pezeshkian Z, Asadzadeh Aghdaei H and Zali MZ. HIF-1 alpha gene expression is not a suitable biomarker for evaluation malignancy risk in colorectal polyps. **World Cancer Research Journal (WCRJ)**, 5 (3): e1128, 2018. (ISI listed)
14. Forouzes F*, Agharezaee N. A review of the molecular signaling pathways involved in controlling cancer stem cells and their role in cancer treatment. **Journal of Qazvin University of Medical Sciences**, 22(3):77-92, 2018. (ISC)
15. Moheb-Alian A, Forouzes F, Sadeghi A, Rostami K, Aghamohammadi E, Rostami-Nejad M, Rezaei-Tavirani M, Mohammad Reza Zali MR. Contribution of HLA-DQ2/DQ8 haplotypes in type one diabetes patients with/without celiac disease. **Journal of Diabetes and Its Complications** 33: 59–62, 2019 (JDC). (IF: 2.792)
16. Ghiaghi M, Forouzes F*, Rahimi H. Effect of sodium butyrate on LHX1 mRNA expression as a transcription factor of HDAC8 in human colorectal cancer

cell lines. **Avicenna Journal of Medical Biotechnology (AJMB), 2019.**
(Accepted manuscript). (ISI)

Published full papers in congress

1. Forouzes F, Azizi M, Hassanzehi AG, Karimi M, Mohagheghi AH, Raeisi A, and Djadid ND. First report on characterization of exon I and intron II in voltage-gated sodium channel gene in field specimens of *Anopheles culicifacies* from Sistan and Baluchistan, Iran. **The 3rd National Congress of Biotechnology, I.R.IRAN, 2003, (full text).**
2. Forouzes F, Azizi M, Hassanzehi AG, Karimi M, Mohagheghi AH, and Djadid ND. Comparison of two sequences related to VGSC gene in field specimens of *Anopheles stephensi* collected from Sistan and Baluchistan province, Iran. **The 3rd National Congress of Biotechnology, I.R.IRAN, 2003, (full text).**
3. Djadid ND, Forouzes F, Zakeri S. Identification of knock-down resistance (kdr) mutation in VGSC gene, related to pyrethroids resistance in Iranian *An. sacharovi* and *An. maculipennis*. **The 4th National Congress of Biotechnology, 15-17 August 2005, Kerman (Mahan), (full text).**
4. Djadid ND, Barjesteh H, Forouzes F, Zakeri S. Determination of glutathione S-transferase e2 region (GSTe2) in DDT susceptible and resistant *An. stephensi* populations. **The 4th National Congress of Biotechnology, 15-17 August 2005, Kerman (Mahan), (full text).**
5. Forouzes F, Sharifi Boroujerdi SH, Mohebbali GH, Bambai B. Characterization and studied effects of light in produce of pigment in RIPI bacteria. **The 4th National Congress of Biotechnology, 15-17 August 2005, Kerman (Mahan), (full text).**
6. Djadid ND, Z Shamsavari, F Forouzes, AH Mohagheghi, A HassanZehi, S Zakeri. Study of actin gene in *An. stephensi*: application for disturbing the biological activities in malaria vectors. **The 8th ICB and 1th ICBMB, Tehran, Tarbiat Modarres University, Sep 11-15, 2005 (Iranian J. of Biochemistry and Molecular Biology, Vol.1, No.1, Sep 2005).**
7. Djadid ND, Forouzes F, Zakeri S. Variation in intron sequence of the voltage-gated sodium channel gene in *An. sacharovi* and *An. maculipennis*: comparison with other Iranian vectors. **Journal of Clinical Biochemistry, Vol38, No.9, Sep 2005 & Iranian J. of Biochemistry and Molecular Biology, Vol.1, No.1, Sep 2005.**
8. Djadid ND, Barjesteh H, Forouzes F, Zakeri S. Analysis of the intron I region of the GSTe2 gene as a major insecticide resistance locus in malaria vectors *Anopheles culicifacies*, application in molecular diagnosis. **Journal of Clinical Biochemistry, Vol38, No.9, Sep 2005 & Iranian J. of Biochemistry and Molecular Biology, Vol.1, No.1, Sep 2005.**

Published abstracts in congress

1. Forouzes F, Shams Lahijani M. A survey on morphology and embryonic development of double yolk eggs (White Leghorn, Highline, and W36) of Karaj Abyek. **Ninth Iranian Biology Conference, University of Tehran. 15-17 August 2000.**
2. Forouzes F, Karimi M, Hassanzehi AG, Gholizadeh S, and Djadid ND. First report on partial characterization of sodium channel gene in malaria vector *Anopheles stephensi* from Sistan and Baluchistan province in Iran. **First National Congress of Molecular Cell Biology, Chamran University of Ahvaz 25-26 Feb, 2003.**
3. Djadid ND, Forouzes F, and Hassanzehi AG. Partial sequence of sodium channel gene in field specimens of *Anopheles culicifacies* collected from Sistan and Baluchistan province, Iran. **BSP (British Society for Parasitology), 2003.**
4. Djadid ND, Forouzes F, Tabatabai AH, Karimi M, Raeisi A, Hassanzehi AG, AND Azizi M. Molecular characterization of sodium channel gene in *An. culicifacies*, *An. stephensi* and *An. fluviatilis* from Southeast of Iran, implication and application for malaria control. **Medicine tropical, 4-6 Sep, Vol 63, No 3, 2003.**
5. Djadid ND, Tafssiri E, Forouzes F, Aghajari M, Karimi M, Gholizadeh S, Mohagheghi AH, Ghanbari MR, Zare M, and Raeisi A. Molecular identification and characterization of VGSC gene, ITS2, RAPD and microsatellite regions in main malaria vectors of Eastern Mediterranean. **EMRO.**
6. Djadid ND, Forouzes F, Karimi M, Raeisi A, and Zakeri S. Cloning and sequencing of kdr-related domain II of VGSC gene in field specimens of Iranian main malaria vectors. **BSP (British Society for Parasitology), 4-7 April, 2004.**
7. Forouzes F, Karimi M, and Djadid ND. Cloning and molecular analysis of VGSC gene related to insecticide resistance in a major world malaria vector: *An. stephensi* and comparison with *An. gambiae*. **Proceeding of the 12th, Iranian Biology Conference, Bu Ali Sina University of Hamedan, 31 Aug-2 Sep, 2004.**
8. Barjesteh H, Forouzes F, and Djadid ND. GST-E2 insecticide resistance gene in *Anopheles fluviatilis*: Identification, sequence analysis and comparative study in main world malaria vectors. **Proceeding of the 12th, Iranian Biology Conference, Bu Ali Sina University of Hamedan, 31 Aug-2 Sep, 2004.**
9. Forouzes F and Djadid ND. Cloning and sequencing of voltage gated sodium channel gene (VGSC) related to pyrethroid resistance in *Anopheles fluviatilis* of Iran. **The 2nd congress on Applied Biology (International Approach), Islamic Azad University of Mashhad, Iran, 29-30 Sep. 2004.**
10. Barjesteh H, Forouzes F, and Djadid ND. GST insecticide resistance gene in *Anopheles stephensi*: Identification, sequence analysis and comparative study in main world

malaria vectors. **The 2nd congress on Applied Biology (International Approach), Islamic Azad University of Mashhad, Iran, 29-30 Sep. 2004.**

11. Forouzesh F, Raeisi A, Zakeri S, and Djadid ND. Structural and comparative sequence analysis of VGSC gene related to insecticide resistance in *Anopheles dthali* from Iran. **The 13th Iranian congress infectious disease and tropical medicine, 11-15 Dec. 2004.**

12. نوید دین پرست، فلورا فروزش، امیر حسین محقق، عبدالغفار حسن زهی، نادر شه بخشی. Epidemiology and phylogenetic study on pyrethroid and DDT resistance in 5 Iranian main malaria vector. دومین کنگره سالانه اپیدمیولوژی، دانشگاه علوم پزشکی زاهدان، 6-8 بهمن 1383. طبیب شرق، مجله علمی پژوهشی دانشگاه علوم پزشکی و خدمات بهداشتی درمانی زاهدان. سال ششم، زمستان 1383.

13. فلورا فروزش، احمد رئیسی، امیر حسین محقق، عبدالغفار حسن زهی، نادر شه بخشی، نوید دین پرست. Genetic epidemiology of VGSC gene in *Anopheles pulcherrimus* and other vector species in Iran: Application in malaria control. دومین کنگره سالانه اپیدمیولوژی، دانشگاه علوم پزشکی زاهدان، 6-8 بهمن 1383. طبیب شرق، مجله علمی پژوهشی دانشگاه علوم پزشکی و خدمات بهداشتی درمانی زاهدان. سال ششم، زمستان 1383.

14. نوید دین پرست، حسام بر جسته، فلورا فروزش، احمد رئیسی، مهدی زند حقیقی، صدیقه ذاکری. Two malaria endemic areas and molecular mechanisms of insecticide resistance in their main vectors. دومین کنگره سالانه اپیدمیولوژی، دانشگاه علوم پزشکی زاهدان، 6-8 بهمن 1383. طبیب شرق، مجله علمی پژوهشی دانشگاه علوم پزشکی و خدمات بهداشتی درمانی زاهدان. سال ششم، زمستان 1383.

15. نوید دین پرست، فلورا فروزش، زینب شهبواری، امیر حسین محقق، عبدالغفار حسن زهی، نادر شه بخش، صدیقه ذاکری. بررسی ژن اکتین در آنوفل کولیسیفاسیس: راهکاری برای ایجاد اختلال در فعالیتهای بیولوژیکی ناقلین مالاریا. دومین کنگره سالانه اپیدمیولوژی، دانشگاه علوم پزشکی زاهدان، 6-8 بهمن 1383. طبیب شرق، مجله علمی پژوهشی دانشگاه علوم پزشکی و خدمات بهداشتی درمانی زاهدان. سال ششم، زمستان 1383.

16. Djadid ND, S Gholizadeh, F Forouzesh, H Barjesteh, AH Mohagheghi, A HassanZehi, A Raeisi, S Zakeri. Molecular diagnostics tool for 20 anopheles species in eastern Mediterranean region: prerequisite for regional distribution map of malaria vectors. **BSP (British Society for Parasitology), 3-6 April, 2005, the University of Nottingham.**

17. Djadid ND, Forouzesh F, Zakeri S. Cloning and molecular characterization of kdr-related domain II VGCS gene in the main malaria vectors of Southeastern and Northeastern parts of Iran. **Proceeding of the 13th, Iranian Biology Conference and the first International conference of Biology, Guilan University, Rasht, Iran, 23-25 Aug, 2005.**

18. Djadid ND, Z Shahsavari, F Forouzes, AH Mohagheghi, A HassanZehi, S Zakeri. Study of actin gene in An. stephensi: application for disturbing the biological activities in malaria vectors. **The 8th ICB and 1th ICBMB, Tehran, Tarbiat Modarres University, Sep 11-15, 2005.**
19. Shamsipour F, Zarnani AH, Chamankhah M, Ghods R, Javan M, Forouzes F, Bayat AA, Oghabian MA, and Jeddi-Tehran M. Conjugation of antibodies to magnetic nanoparticles for detection and treatment of breast cancer. **Proceedings of the 15th, National and third International conference of Biology, Tehran University, Tehran, Iran, 19-21 Aug, 2008.**
20. Forouzes F, Zarnani AH, Ghods R and Chamankhah M. Antibody magnetic nanoparticle conjugation. **The best of Nanotechnology Exhibition, Tehran, Iran, October 2008.**
21. Forouzes F, Zarnani AH, and Chamankhah M. Biological evaluation of antibody magnetic nanoparticle conjugate. **The best of Nanotechnology Exhibition, Tehran, Iran, October 2008.**

22. فلورا فروزش، حجت اله ربانی، سعید طالبی، فاضل شکری، محمود جدی تهرانی و Håkan Mellsted. شناسایی مولکولی ایزوفرم‌های مختلف ژن گی‌رنده تی‌روزی‌ن کی‌ناز ROR1 به عنوان یک مارکر توموری بالقوه در بی‌ماران مبتلا به لوسمی لنفوسیتی‌ک مزمن (CLL) و بررسی بی‌ان آنها. اولین همایش سرطان و پیشگیری، مرکز همایش‌های بین‌المللی صدا و سیما، تهران، 7-8 بهمن ماه 1391.

23. Hghbin M, Forouzes F and Pourhosseingholi MA. The necessarily to evaluation of CXCR3, CXCL10 and CXCL11 gene expression in celiac patients. **2nd international symposium of Gluten Related Disorders. Shahid Beheshti University of Medical Sciences, Tehran, Iran. 1-3 September 2016.**
24. Mohebalian A and Forouzes F. The importance of HLA typing in T1D patients. **2nd international symposium of Gluten Related Disorders. Shahid Beheshti University of Medical Sciences, Tehran, Iran. 1-3 September 2016.**
25. Flora Forouzes*, Niloofar Agharezaee. The properties of cancer stem cells in tumor recurrence and metastasis in colorectal cancer. **The 3rd international gastrointestinal cancer congress. Shahid Beheshti University of Medical Sciences, Tehran, Iran. 23-25 November 2016.**
26. Sadeghi V, Forouzes F*, Baghaei K, Rajabbeigi E, Nazemalhosseini Mojarad E. The ethanolic extract from the root of Euphorbia Tehranica induces apoptosis in human colorectal cancer cells by activation of caspase-3. **27th annual congress of cancer Institute of Iran. Imam Khomeini hospital, Teran, Iran. 21 – 23 December 2016.**
27. Forouzes F*, Mousavi S. OR. The Role of Slit-Robo Signaling as a Therapeutic Target for Cancers. **The first international congress of Iranian personalized medicine. Imam Khomeini hospital, Teran, Iran. 25-27 Feb 2017.**

28. Forouzesh F*, Hashemi S.Z, Shabani M, and Rajabbeigi E. Anti-tumor activity of the shoot of Euphorbia Tehranica ethanolic extract on HT-29 human colon cancer cell line. **6thNational Congress on Medicinal Plants, Teran, Iran. 9-10th May 2017. (ISC)** (*Iranian Journal of Pharmaceutical Research (IJPR), vol 16, supplement 1, spring 2017*) **(ISI)**
29. Forouzesh F*, Agharezaee N. Therapeutic approaches to target the breast cancer stem cells using nanomedicines. **The 1st conference on stem cells, cell therapy and regenerative medicine. Tehran medical sciences branch, Islamic Azad University, Tehran, Iran. 22-23 May, 2017.**
30. Najmeh Amiri, Flora Forouzesh*, Ehsan Nazemalhosseini Mojarad, and Mahdi Shabani. Anticancer activity of sodium butyrate as a histone deacetylase inhibitor on HT-29 human colorectal cancer cells. **2nd International and 10th National Biotechnology congress of Islamic Republic of Iran. Seed and plant improvement institute , Karaj, Iran. August 29-31, 2017. (ISC)**
31. Pantea Hajimirza Shafiesoltani, Mahdi Shabani and Flora Forouzesh*. The investigation of anti proliferative effect of thalidomide analog, CC-5013, against colorectal cancer cell line. **2nd International and 10th National Biotechnology congress of Islamic Republic of Iran. Seed and plant improvement institute , Karaj, Iran. August 29-31, 2017. (ISC)**
32. Fateme sadat Kia , Ehsan Nazemalhosseini Mojarad and Flora Forouzesh*. The investigation of Bid gene expression as an apoptotic molecule in human colorectal adenomatous polyps. **2nd International and 10th National Biotechnology congress of Islamic Republic of Iran. Seed and plant improvement institute , Karaj, Iran. August 29-31, 2017. (ISC)**
33. Zohreh Sharifi, Flora Forouzesh, Fatemeh Golnabi, Hanieh Noferesti, Sara Amini, Sormeh Pourtavakoli, Maryam Abiri, Sirous Zeinali. Developing a novel panel for the genetic screening of autosomal recessive SMA associated genes. **2nd International and 10th National Biotechnology congress of Islamic Republic of Iran. Seed and plant improvement institute , Karaj, Iran. August 29-31, 2017. (ISC)**
34. Flora Forouzesh*, Mahdi Shabani, and Zahra Hashemi. Induction of apoptosis by the shoot of Euphorbia tehranica ethanolic extract through the effect on Bcl2 and Bax gene expression in HT-29 colon cancer cells. **1st National congress on Biotechnology of Medicinal Plants and Mushrooms. Zanjan university, Iran. 2 Sep, 2017. (ISC)**
35. Mohebalian A, Rostami Nejad M, Forouzesh F, Abdi H , Rostami K, Aghamohammadi E, Barzegar F, Zali M. HLA-DQ genetic study for type 1 diabetes and celiac disease in Iranian population. **17th International celiac disease symposium. Le Meridien, New Dehli, India. 8-10 Sep, 2017.**
36. Haghbin M, Rostami Nejad M, Forouzesh F, Sadeghi A, Rostami K, Aghamohamadi E, Zali M. The evaluation of CXCR3, CXCL10 and CXCL11 genes expression as diagnostic marker in the early stage of celiac disease. **17th International celiac disease symposium. Le Meridien, New Dehli, India. 8-10 Sep, 2017.**
37. Agharezaee N, Forouzesh F*. Nanomedicine and Breast Cancer Stem Cells, Efficacy and Approaches. **International Tehran Breast Cancer Congress (TBCC9). Motamed cancer Institute. Tehran, Iran. 18-20 Oct, 2017.**

38. Agharezaee N, Forouzesh F*. Precision Medicine in Cancer; the Ethical Challenges. **The 2nd National Congress of Integrative Oncolog., Motamed cancer Institute. Tehran, Iran. 18-20 Oct, 2017.**
39. Niloofar Agharezaee N, Forouzesh F*. The Ethical Aspects of Genomics and Precision Medicine. **International Congress on Ethics in Science and Technology. Tehran, Iran. 7-9 Dec, 2017. (ISC)**
40. Rajabi M, Nazemalhosseini Mojarad E, Forouzesh F*. Quantitative analysis of the Bid gene expression in patients with colorectal cancer. **The 3rd International & 15th Iranian Genetics Congress. Tehran, Iran. 13-15 May, 2018. (Cell journal, vol 20, supplement 1, spring 2018)(ISI).**
41. Sharifi Z, Noferesti H, Golnabi F, Sarhadi Bandehi A, Forouzesh F, Hashemi M, Abiri M, Zeinali S, and Bahramizadegan S. Spinal Muscular Atrophy diagnosis in 150 Iranian families with affected child. **European Huma Genetics Conference, ESHG. Milan, Italy, 16-19 Jun, 2018.**

Published Book (As authors)

1. Name book: Alzheimer

Authors: Saki K, Forouzesh F, Moghadamnia H, and Rezaei Tavirani M.

Publication: Ilam University of Medical Sciences, Goyesh publications {1382-(2003)}.

Research Projects

1. Identification of insecticide resistance gene (VGSC gene) in 10 major malaria vectors of Iran. Pasteur Institute, Iran, Tehran.
2. Cloning and gene expression of glutathione S-transferase e2 region (GSTe2) in major malaria vectors of Iran. Pasteur Institute, Iran, Tehran.
3. Molecular identification of actin gene in culicidae vectors of Iran. Pasteur Institute, Iran, Tehran.
4. Investigation of the structure and function of oxidoreductase enzyme in RIPI bacteria. Research Institute of Petroleum Industry, Tehran, Iran.
5. Conjugation of monoclonal antibodies to super paramagnetic iron oxide nanoparticles for detection and cancer therapy. Avicenna Research Institute, Tehran, Iran.
6. Investigation of receptor tyrosine kinase gene –structure and function- in chronic lymphocytic leukemia. Avicenna Research Institute, Tehran, Iran.
7. Study of effect of sodium butyrate as an inhibitor of Histone deacetylase (HDAC) on gene expression of Fas gene in human colon cancer CaCo2 cell line. Medical Sciences Branch of Islamic Azad University, Tehran, Iran.

Submitted sequences

Some of the genes and proteins related to resistance in Anopheles of Iran (main vectors of malaria) submitted in GenBank.

1. Submitted sequences of **VGSC** gene and protein in main malaria of Iran in GenBank, EMBL, and DDBJ.
2. Submitted sequences of **GST** gene and protein in main malaria of Iran in GenBank, EMBL, and DDBJ.
3. Submitted sequences of **actin** gene and protein in main malaria of Iran in GenBank, EMBL, and DDBJ.
4. Submitted sequence of **probs** (STR) in GenBank, EMBL, and DDBJ.
5. Submitted sequence of **Bid Isoforms** gene and protein in GenBank, EMBL, and DDBJ.

Certification

1. Certification of **Bioinformatics** workshop.
2. Certification of “**Amino acid analysis of peptides and proteins**” workshop.
3. Certification of the first congress and workshop: “**Quick identification of microbial contamination by impedance method, s**”.
4. Certification of scientific congress and conference.
5. Certification of **EndNote** workshop.
6. Certification of **Quantum Dot** workshop.
7. Certification of “**How to referee the paper?**” workshop.
8. Certification of “**How to write English paper?**” workshop.
9. Certification from CANCER CENTER KAROLINSKA. Karolinska Institute/Karolinska University, Stockholm, Sweden. As a researcher.
10. Certification of “**Gene silencing using RNA interference**” workshop.
11. Certificate of “**Advance course of Immunology**”.
12. Certificate of “**Immunoinformatics and Vaccine Development**” workshop.
13. Certificate of “**Biosafety in molecular biology lab**”.

Membership of scientific societies

1. Iranian Biotechnology society
2. Iranian Genetic society
3. Iranian proteomics society
4. Young Researchers Club
5. Iranian Society for Immunology and Allergy

Laboratory skills

1. DNA extraction
2. RNA extraction (from blood, tissue, and cell lines)
3. PCR, ITS-PCR, Nested-PCR, Multiplex-PCR and RT-PCR
4. Real-Time PCR
5. Gene Cloning
6. Plasmid extraction
7. Electrophoresis, Polyacrylamid gel electrophoresis (PAGE) and SDS-PAGE
8. Western blotting and Dot blotting
9. ELISA
10. Cell extraction
11. Cell culture
12. Cell transfection
13. Produce of Stable cell lines
14. Immunocytochemistry
15. Flow cytometry (FACS)
16. Conjugation
17. Polyclonal antibody (production, purification, functional study)
18. Apoptosis study
19. Primer designing
20. Bioinformatics analysis

Job experience

1. Pasteur Institute of Iran, Biotechnology Department, (2001-2005).
2. Research Institute of Petroleum Industry, Microbiology Department, Tehran, Iran, (2005-2006).
3. Department of Nanotechnology, Nanobiotechnology Research Center (NBRC), Avicenna Research Institute (ARI), ACECR, Tehran, Iran. (2006-2008).
4. Department of Antibody and Antigen Engineering, Monoclonal Antibody Research Center, Avicenna Research Institute (ARI), ACECR, Tehran, Iran. (2008-2011).

Teaching experiences

1. Lecture in Avicenna Research Institute, Tehran, Iran (2007).
2. Azad university- Shahre rey (2008).
3. Khatam university (2009)
4. Educational center, 18 area, Tehran, Iran (2010).
5. Azad university-Tehran shargh (2011-2013).
6. Azad university- Tehran Olom Tahghihat (2013- 2014).
7. Azad university- Tehran Olom Pezeshki (2013-now).

Lecturing in Workshops

1. Teaching molecular methods which have been run in Biotechnology Department, Pasteur Institute of Iran (PII) for participates in **“Gene cloning Workshop”**. Pasteur Institute of Iran, Tehran. 2004.
2. Scientific instructor and teaching in **“DNA extraction, PCR technique, Electrophoresis Workshop”**, Medical Sciences Branch of Islamic Azad University, Tehran, Iran. September 2013.
3. Scientific instructor and teaching in **“PCR technique, Electrophoresis Workshop”**, Medical Sciences Branch of Islamic Azad University, Tehran, Iran, December 2013.
4. The head of **“Writing English paper Workshop”**, Medical Sciences Branch of Islamic Azad University, Tehran, Iran. December 2015.
5. Scientific instructor and lecturing in **“Research methods 1 workshop”**, Young Researchers Club, Medical Sciences Branch of Islamic Azad University, Tehran, Iran. January 2017
6. Scientific instructor and lecturing in **“Research methods 2 workshop”**, Young Researchers Club, Medical Sciences Branch of Islamic Azad University, Tehran, Iran. February 2017.
7. Scientific instructor and teaching in **“EndNote workshop”**, 14th Interactional Congress of Immunology and Allergy. Tehran, Iran. 26-28 April, 2018.

Executive activity

1. Assistant Referees Committee in **International Congress on Biomedicine**. Tehran, Iran. 2017.
2. Scientific committee member in **The 2nd National Congress of Integrative Oncology and International Tehran Breast Cancer Congress (TBCC9)**, Motamed cancer Institute. Tehran, Iran. 18-20 Oct, 2017.
3. Scientific committee member in **the 2nd International personalized medicine congress of Iran**. Tehran, Iran. 13-15 Jan, 2018.
4. Editorial board member of **personalized medicine journal**.
5. Supervision and advisor of students' thesis
6. رییس کمیته اجرایی کارگاه مقاله نویسی از طرف مرکز تحقیقات علوم اعصاب و شناخت و مرکز تحقیقات ژنومیکس پزشکی دانشگاه علوم پزشکی آزاد اسلامی واحد تهران (1394).
7. عضو شورای پژوهشی مرکز تحقیقات ژنومیکس دانشگاه آزاد اسلامی واحد پزشکی تهران (95/7/1-یکسال)
8. معاون آموزشی مرکز تحقیقات ژنومیکس پزشکی دانشگاه علوم پزشکی آزاد اسلامی واحد تهران (96/1/15-یکسال)
9. عضو کمیته توانمندسازی علوم نوین، دانشگاه آزاد اسلامی واحد پزشکی تهران (96/2/1-یکسال)
10. ممتحن مصاحبه علمی دوره دکترای تخصصی (PhD) رشته مهندسی بافت، (1396).

11. مسئول کمیته توانمندسازی اساتید دانشکده علوم نوین، دانشگاه آزاد اسلامی واحد پزشکی تهران (96/5/3-یکسال)

11. Scientific Committee of ICIA2018 Workshops. 14th Interactional Congress of Immunology and Allergy. Tehran, Iran. 26-28 April, 2018.

12. مسئول کمیته توانمندسازی اساتید دانشکده علوم و فناوری های نوین، دانشگاه آزاد اسلامی واحد پزشکی تهران (96/10/24-تاکنون).

13. معاون پژوهشی دانشکده علوم و فناوری های نوین، دانشگاه آزاد اسلامی واحد پزشکی تهران (97/03-تاکنون).

14. برگزار کننده و سخنران سومین همایش تزیاری گروه MBA و مدیریت اقتصاد دارو، دانشگاه آزاد اسلامی واحد پزشکی تهران (آذرماه 1397)

Act as Reviewer

1. Reviewer in in **The 2nd National Congress of Integrative Oncology and International Tehran Breast Cancer Congress (TBCC9)**, Motamed cancer Institute. Tehran, Iran. 18-20 Oct, 2017.
2. Reviewer **the 2nd International personalized medicine congress of Iran**. Tehran, Iran. 13-15 Jan, 2018.
3. Reviewer in **cell journal**
4. Reviewer in **International Invention Journal of Medicine and Medical Sciences**
5. Reviewer in **Journal of Fasa University of Medical Sciences**
6. Reviewer in **Journal of Space Science & Technology**

Awards

1. **Selected as the best poster**. The 8th ICB and 1th ICBMB, Tehran, Tarbiat Modarres University. 11-15 September, 2005.
2. **Selected as “Second rank at research”**. The 8th International meeting of Young Researchers Club. Ramsar, September 2006.
3. **Receiving an “activated member”** at selected research. The seminar of Young Researchers Club. 12-13 December, 2006.