

Name: Ladan Teimoori-Toolabi

Gender: Female

Marital Status: Married, Two children

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Place of Birth: Shiraz/Iran

Nationality: Iranian

Date of Birth: 3/21/1976

Education:

- Diploma of Experimental Sciences 1994, Farzanegan High School, National Organization of Training of Brilliant Talents, Tehran;
- Medical Doctor (M.D) from Tehran University Of Medical Sciences, 2002
Thesis title: Studying the relationship between chimerism and clinical outcome of patients undergone Bone Marrow Transplantation in Shariati Hospital
- Ph.D Medical Biotechnology, Pasteur Institute of Iran, Tehran, 2009
Thesis Title: Designing and constructing two suicide gene therapy specific for colon cancer and studying its effect in vitro
- Post Doctoral Fellowship, Pasteur Institute of Iran, 2010-2011, designing construct for producing knock out mice

Honors and Distinctions:

- One of 40 students of Chemistry Olympiad Camp in 1993 selected from all around Iran
- First rank and the best score at National Entrance Examination in 1994 (Natural Science group of examination among 350000 examinees)
- Winner of UNESCO-L'Oréal cosponsored fellowship for young women in life science- 2011
- Two week course of advanced Cellular Biology in Pasteur-Hong Kong University Research Center, 15-27 April 2012, Hong Kong

Positions:

- Working as a scientific translator in Novin Pezeshki Journal, 2000-2002
- Practicing as a General Physician in Charity hospital of Seyyed-o Shohada 2002-2006
- Ph.D student, 2002-2009
- Postdoctoral fellowship in Molecular Medicine Department, Pasteur institute of Iran, 2010-2011
- Assistant professor in Molecular Medicine Department, Pasteur institute of Iran, 2011 till now

Major Projects:

- Working in research group of Relationship of Apo lipoprotein E Genotype and Menopause in Iranian Women in NRCGEB (National Research Center for Genetic Engineering and Biotechnology), 2000-2002
- Studying the Relationship of Mixed Chimerism and Bone Marrow Transplantation Clinical outcome in Shariati hospital ,Tehran ,Iran,2001-2002 ^{2,6}
- Working in Hepatitis and AIDS Department of Pasteur institute of Iran (HTLV DNA Vaccine group) 2003 -2005
- Participating in the project of Optimal Management in Medical Research at National Center of Medical Research,2002 -2005
- Studying the frequency of CARD15 mutations in Iranian IBD patients 2004 to 2007 in Digestive Disease Research Center(DDRC), Shariati Hospital ,Tehran University of Medical Sciences, Tehran ,Iran
- Ph.D Thesis project: “Designing and Construction of two specific suicide gene therapy constructs for colon cancer gene therapy” 2005 -2008⁹
- Working in the project of Tehran University of Medical Science “Studying the resistance of colon cancer cells to 5-FU induced by k-ras mutation”2009 -2012
- Conducting the project of “Studying the autophagy genes in Iranian Crohn’s patients”2010 till now
- Working in the project of “ Immortalization of cells for usage in prenatal diagnosis” 2011
- Conducting the project of “Studying the resistance of lung cancer cell lines to cis platin and gemcitabine by silencing k-ras signaling pathway” 2011-2012
- Conducting the project of UNESCO of “Studying the methylation status of wnt inhibitory factors as markers of colorectal cancer in the blood” 2011-2013

- Conducting the project of Pasteur Institute of Iran “ Studying the methylation and expression of Wnt inhibitory factors in colon cancer patients” 2011-2014
- Conducting the project of Iranian National Science Foundation(INSF) “Studying the relationship between methylation and expression of wnt inhibitory factors in colon cancer tissues to response of patients to chemotherapy” , 2012 till now

Publications:

- 1- Ahmadvand S, Farahmand H, **Teimoori-Toolabi L**, Mirvaghefi A, Eagderi S, Geerinckx T, Shokrpour S, Rahmati-Holasoo H. **Boule gene expression underpins the meiotic arrest in spermatogenesis in male rainbow trout (*Oncorhynchus mykiss*) exposed to DEHP and butachlor.** Gen Comp Endocrinol. 2015 May. [Epub ahead of print]
- 2- Rasekhian M, **Teimoori-Toolabi L**, Amini S, Azadmanesh K. **An Enterovirus-Like RNA Construct for Colon Cancer Suicide Gene Therapy.** Iran Biomed J. 2015 May 30. [Epub ahead of print]
- 3- Ebrahimzadeh-Vesal R, Shokrgozar MA, Nayernia K, **Teimoori-Toolabi L**, Miryounesi M, Nourashrafeddin S, Ranji N, Modarressi MH. **A vector-based system for the differentiation of mouse embryonic stem cells toward germ-line cells.** Iran J Basic Med Sci. 2014 Aug; 17(8):566-70.
- 4- **Teimoori-Toolabi L**, Hashemi S, Azadmanesh K, Eghbalpour F, Safavifar F, Khorramizadeh MR . **Silencing the wild-type and mutant K-ras increases the resistance to 5-fluorouracil in HCT-116 as a colorectal cancer cell line.** Anticancer Drugs. 2015 Feb;26(2):187-96
- 5- Gheidari F, Bakhshandeh B, **Teimoori-Toolabi L**, Mehrtash A, Ghadir M, Zeinali S. **TCF4 silencing sensitizes the colon cancer cell line to oxaliplatin as a common chemotherapeutic drug.** Anticancer Drugs. 2014 Sep;25(8):908-16.
- 6- Rasekhian M, Roohvand F, **Teimoori-Toolabi L**, Amini S, Azadmanesh K. **Application of the 3'-noncoding region of poliovirus RNA for cell-based regulation of mRNA stability: Implication for biotechnological applications.** Biotechnol Appl Biochem. 2014 Feb 25
- 7- Moazeni M, Khorramizadeh MR, **Teimoori-Toolabi L**, Noorbakhsh F, Rezaie S. **The effect of EFG1 gene silencing on down-regulation of SAP5 gene, by use of RNAi technology.** Acta Med Iran. 2014; 52(1):9-14

- 8- Azizi M, **Teimoori-Toolabi L**, Arzanani MK, Azadmanesh K, Fard-Esfahani P, Zeinali S. **MicroRNA-148b and microRNA-152 reactivate tumor suppressor genes through suppression of DNA methyltransferase-1 gene in pancreatic cancer cell lines.** *Cancer Biol Ther.* 2014 Jan 21; 15(4).
- 9- Kainimoghaddam Z, Valaei A, Bayat F, Taghavi Basmanj M, Navabmoghaddam F, Mortezaazadeh M, **Teimoori-Toolabi L**, Ahmadi S, Sadegh SH, Kordafshari A, Karimipoor M, Zeinali S. **Prenatal Diagnosis of β -thalassemia in Twin Pregnancies in Iran.** *Achieves of Iranian Medicine*, 2013, 16(10)
- 10- Moazeni M, Khoramizadeh MR, **Teimoori-Toolabi L**, Noorbakhsh F, Fallahi AA, Rezaie S. **Down-regulation of the ALS3 gene as a consequent effect of RNA-mediated silencing of the EFG1 gene in Candida albicans.** *Iranian Biomedical Journal.* 2012.16(4):172-8
- 11- Moazeni M, Khoramizadeh MR, Kordbacheh P, Sepehrizadeh Z, Zeraati H, Noorbakhsh F, **Teimoori-Toolabi L**, Rezaie S. RNA-Mediated Gene Silencing in *Candida albicans*: Inhibition of Hyphae Formation by Use of RNAi Technology. *Mycopathologia.* 2012 Apr 7
- 12- **Teimoori-Toolabi L**, Vahedi H, Mullahajian H, Kamali E, Hajizadeh-Sikaroodi SH et al ;" **Three common CARD15 mutations are not responsible for the pathogenesis of Crohn's Disease in Iranians"** , *Hepato-Gastroenterology.* 2010 Mar-Apr;57(98):275-82
- 13- **Ladan Teimoori-Toolabi**, Kayhan Azadmanesh, Amir Amanzadeh, Sirous Zeinali, **"Selective suicide gene therapy of colon cancer exploiting Urokinase Plasminogen Activator receptor promoter"**: *Biodrugs*, 2010 Apr 1;24(2):131-46
- 14- **Ladan Teimoori-Toolabi**, Kayhan Azadmanesh, Sirous Zeianli, **Selective suicide gene therapy of colon cancer cell lines exploiting fibroblast growth factor 18 promoter: *Cancer Biotherapy and radiopharmaceuticals*,2010 Feb;25(1):105-**
- 16
- 15- **Ladan Teimoori-Toolabi**, Kayhan Azadmanesh, Somayeh Jamali, Amir Amanzadeh, Morteza Karimipoor Sirous Zeinali: **"Studying the Activity of Fibroblast Growth Factor 18 and Urokinase Plasminogen Activator Receptor Promoters in Two Colon Cancer Cell Lines"**, *Yakhteh Medical Journal*, Vol 11, No 2, Summer 2009, Pages: 142-153

- 16- Koochmeshgi J, Hosseini-Mazinani SM, Morteza Seifati S, Hosein-Pur-Nobari N, Teimoori-Toolabi L: **"Apolipoprotein E genotype and age at menopause"**; **Ann NewYork Academy of Science**, Vol 1019 June 2004
- 17- Jamali S, Emtiazjoo M, Teimoori-Toolabi L et al: **"Antimicrobial activity of the Persian Gulf Sea cucumber *Holoturia*. *SP* extracts on Three strain of *E.coli* (*K12*, *TG1*, *TOP 10 F*)"** in **Tarbiat Modares Journal** , summer 2009

Presentations:

- 1- Poster presentation of **"Pattern of Dipkoff-1 gene expression in two normal colonic samples and three cell lines(A549,HCT116 and SW480)"** in International congress of Gastroenterology and Hepatology (ICGH), 2013, Tehran, Iran
- 2- Poster presentation of **" Studying the predisposing mutations in IRGM gene in Iranian patients affected with Crohn's Disease"** in Iranian Medical Genetics congress, May2013, Tehran, Iran
- 3- Poster presentation of **" Studying the expression of DKK3 gene in pateints affected with colorectal cancer"** in Iranian Medical Genetics congress, May2013, Tehran, Iran
- 4- Poster presentation of **"Secreted frizzled related protein 1expression profiling in 11 patients of colorectal cancer and its clinical implication"** in International congress of Gastroenterology and Hepatology (ICGH), 2012, Tehran, Iran
- 5- Poster presentation of **"SFRP-5 gene expression profiling in colorectal cancer patients and its clinical implications"** in International congress of Gastroenterology and Hepatology (ICGH), 2012, Tehran, Iran
- 6- Poster presentation of **"Studying the effect of Tcf4 silencing on sensitivity of SW480 colon cancer cell line to Oxaliplatin, a common chemotherapeutic drug"** in International congress of Gastroenterology and Hepatology (ICGH), 2012, Tehran, Iran
- 7- Poster Presentation of **"Wnt signaling pathway seems a better target than k-ras pathway for colon cancer specific suicide gene therapy"** in 5th modern Drug Discovery and Development Summit, San Diego, USA, 15-17 October 2009
- 8- Poster Presentation of **" Designing and constructing a new package for further suicide gene therapy"** in European Human Genetics conference 2008 , Barcelona, Spain , **31st May- 3rd June 2008**
- 9- Oral presentation of **"Predicting GVHD grade by PCR-VNTR "**at APBMTG(Asia Pacific Bone Marrow Transplantation Group)Congress in Mumbai ,India November 2002

- 10- Oral presentation of **“Designing and Constructing reporter constructs exploiting Wnt signaling pathway”** in International Health Genomics Congress 2007, Tehran, Iran
- 11- Poster presentation of **“Strategies for choosing inhibitors of Ras pathway”** 9th Iranian congress of biochemistry and 2nd International congress of biochemistry and molecular biology, Shiraz, Iran, 29th October-1st November 2007
- 12- Poster presentation of **“A mutated HTLV1 Tax expressing DNA vaccine may help suppressing Tax expressing tumor cell line in BALB/c mouse”** in Fourth Iranian Congress of Virology, 1-3 May 2007, Tehran, Iran.
- 13- Poster presentation **“Studying the 980fs981 mutation in CARD15 gene among Iranians affected by Crohn’s Disease”** Vahedi H, Mullahajian HR, Chalian H, Malekzadeh R, Teimoori-Toolabi L in 5th Iranian Congress of Gastroenterology and Hepatology(ICGH5), 2005

Teaching experiences:

- 1- “Primer design and gene prediction” in bioinformatics course for PhD and Ms.C students
- 2- “Cancer biology and cancer genetics” in genetics course for M.S students of medical biotechnology
- 3- “Mitochondria” in biology course for PhD students of Medical Biotechnology
- 4- “Gene transfer to animal cell” in PhD students of Molecular Medicine
- 5- “Signaling based drug design” in New Technology Course for PhD students of Medical Biotechnology
- 6- “Post transcriptional modifications” in advanced biology for PhD students of medical biotechnology
- 7- “Post translational and post transcriptional modifications” in advanced genetics for PhD students of pharmaceutical biotechnology
- 8- “Primer Design” for PhD students of Medical Biotechnology in the course of Molecular diagnostics methods in Tehran University of Medical Sciences
- 9- Teaching as the conductor of whole course of “ Cellular and Molecular Mechanism of Cancer” for M.S students of Cellular and Molecular Biology for Azad University of Drug Science

- 10- Teaching “ Molecular diagnosis of Cancer” for PhD students of Medical biotechnology in the course of “ Molecular Diagnostics Methods” in Tehran University of Medical Science
- 11- Teaching the “ Tumor vaccines” in the course of “ application of biotechnology in vaccine, recombinant drugs and gene therapy” for PhD students of medical biotechnology in Tehran University of medical sciences
- 12- Teaching “ Gene Therapy” in the course of “ application of biotechnology in vaccine, recombinant drugs and gene therapy” for PhD students of medical biotechnology in Tehran University of medical sciences
- 13- Being as the coordinator of “Genetic Engineering” in genetic engineering course for the PhD students of Medical Biotechnology in Tehran University of Medical Sciences
- 14- Teaching “Viral Vectors” in genetic engineering course for the PhD students of Medical Biotechnology in Tehran University of Medical Sciences
- 15- Teaching “Cloning and Transformation” in genetic engineering course for the PhD students of Medical Biotechnology in Tehran University of Medical Sciences and Pasteur Institute of Iran
- 16- Teaching “genetic engineering in gene therapy” in genetic engineering course for the PhD students of Medical Biotechnology

Workshops:

- Being as a conductor and trainer in workshop of bioinformatics (Shahid Beheshti University), 2006
- Being as conductor in Bioinformatics workshop in Molecular Medicine network, 2006-2013
- Being as conductor in two series of methylation workshop, Molecular Medicine network, 2011 and 2012
- Being as a conductor and trainer in 3 workshops of basic methods in biotechnology workshops (Biotechnology Research Center, Pasteur Institute of Iran), 2005-2007
- Being as the manager and conductor of PCR and primer design workshop in Eastern Mediterranean genomic network (EMGEN), 2013
- Being as the conductor of primer design workshop webinar for Eastern Mediterranean genomic network (EMGEN), 2013

Professional Abilities:

Cloning ,Protein Expression, protein purification ,PCR, Animal study, Enzyme detection , Analysis of flowcytometry data , gene delivery methods including transfection and transduction ,real-time PCR, ELISA , Quality Control of biologic products, Designing of tests for biological products , Statistical analysis, Programming in computer by Pascal and FOXPRO programming software, bioinformatics (primer designing ,promoter and sequence analysis ,protein analysis, siRNA designing), MonoClonal Antibody production

Professional Interests:

Cancer Biology, Cancer Biomarkers, Gene therapy of Cancer, Apoptosis signaling, Retroviral studies, Drug resistance in Cancer, Early detection of cancer

Social Activities:

- Editorial of a student journal in Tehran University of Medical Sciences,1997-2000
- Winner of Third prize in Student's Report in Second Festival of Students Journals (A report about Women's role in our country), 2000

Other Interests and Activities:

Swimming, Photographing, Mountain climbing, Indo-European language studies, linguistics studies, Historical studies, Archeological studies

Language Abilities:

- Mother Tongue :Persian, Lori (all dialects) Other Languages: Professional in English and Arabic ; Able to understand: Kurdish and French
- Score 633 in TOEFL exam