

## Curriculum vitae

**Name:** Kayhan  
**Surname:** Azadmanesh  
**Birth date:** 27<sup>th</sup> Apr. 1975 (7 Ord. 1354)  
**Place of birth:** Mashhad- Iran  
**Marital status:** married  
**Nationality:** Iranian



**Date:** 28.6.2014

**Present position:** Head of Molecular Virology department.  
Head of Rapid Response Team for Infectious Diseases, IPI  
Directorate of Education and Cultural affairs  
Associate Professor

### Contact info:

Address:  
General Virology Department  
Pasteur Institute of Iran,  
69 Pasteur Ave  
1316943551. Tehran, Iran.  
Phone: +98-21-66 95 33 11, Ext. No. 2251, 2249

Tele/Fax: +98-21-66 49 66 82

Email: [azadmanesh@pasteur.ac.ir](mailto:azadmanesh@pasteur.ac.ir)  
[k.azadmanesh@gmail.com](mailto:k.azadmanesh@gmail.com)

### Previous positions :

Head of IT unit, Pasteur Institute of Iran: Jan –Apr 2008  
Assistant Prof. of Hepatitis and AIDS Dept, Sept 2005- 2008

### Education and degrees:

High School diploma in Mathematics and Physics, 1991 (1370)  
Medical Doctorate (M.D.) from Mashhad University of Medical Sciences, 1998 (1377)  
Ph.D. in medical biotechnology, Pasteur Institute of Iran, 2005 (1384)

### Title of thesis:

Designing a computer simulation model for population genetics studies (M.D. Thesis)

Designing a candidate DNA vaccine against HTLV-I Tax protein (Ph.D. Thesis)

**Achievements and Awards:**

Third highest rank in medical basic sciences comprehensive exam, Mashhad university of Medical Sciences, 1994

Second rank in Ph.D. entrance exam. Pasteur institute of Iran, 1998

Second rank in Ph.D. comprehensive exam, Pasteur institute of Iran, 2001

Full scholarship for Ph.D. studies, Pasteur institute of Iran ,1999-2004

French EGIED scholarship for research in Pasteur Institute of French Guiana, Mar-Dec 2002

Full WHO scholarship for participating in 7 week training “Advanced WHO/TDR course on immunology, vaccinology and biotechnology applied to infectious diseases”, Switzerland, 2006 (failed to attend) and 2007 (reapplication and attending)

The best assistant professor researcher of Pasteur institute of Iran, awarded in 2010

The best young faculty member researcher of Pasteur institute of Iran, awarded in 2007

**Skills and expertise:**

Medical skills (as a general practitioner), Molecular biology techniques (PCR, RT-PCR, Real time PCR, Cloning, electrophoresis, DNA sequencing, protein expression in bacterial hosts...), Mammalian cell techniques ( culture, transfection, intra cellular signaling analysis, apoptosis studies...), Animal studies (mouse, rabbit, monkey), Immunologic tests (Immunization, ELISA, Western blotting, ELISPOT, Flowcytometry based tests like immunophenotyping or intracellular cytokine staining, Cytotoxicity tests like chromium release assay, LDH release assay,...), Bioinformatics (Data submitting and retrieval to and from different molecular biology data bases, phylogenetic analyses, primary and secondary protein structure analyses, ...), Medical statistics, Epidemiological research methodologies, Principles of GMP.Atomic force microscopy

**Language skills:** Persian (native language), English (speaking/writing good), French (speaking/reading/understanding: moderate), Arabic (reading/understanding/writing: moderate)

**Publications:**

Hartoonian C, Sepehrizadeh Z, Mahdavi M, Arashkia A, Jang YS, Ebtekar M, Yazdi MT, Negahdari B, Nikoo A, **Azadmanesh K**. Modulation of hepatitis C virus core DNA vaccine immune responses by co-immunization with CC-chemokine ligand 20 (CCL20) gene as immunoadjuvant. *Mol Biol Rep*. 2014 Jun 28. [Epub ahead of print]

Jamshidi-Adegani F, Langroudi L, Shafiee A, Mohammadi-Sangcheshmeh A, Ardeshirylajimi A, Barzegar M, **Azadmanesh K**, Naderi M, Arefian E, Soleimani M. Mir-302 cluster exhibits tumor suppressor properties on human unrestricted somatic stem cells. *Tumour Biol*. 2014 Apr 5. [Epub ahead of print]

Hartoonian C, Sepehrizadeh Z, Tabatabai Yazdi M, Jang YS, Langroudi L, Amir Kalvanagh P, Negahdari B, Karami A, Ebtekar M, **Azadmanesh K**. Enhancement of Immune Responses by Co-delivery of CCL19/MIP-3beta Chemokine Plasmid With HCV Core DNA/Protein Immunization. *Hepat Mon*. 2014 Mar 1;14(3):e14611. doi: 10.5812/hepatmon.14611. eCollection 2014 Mar.

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. doi: 10.1002/bab.1218. [Epub ahead of print]

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 Apr;15(4):419-27. doi: 10.4161/cbt.27630. Epub 2014 Jan 21.

Assadiannarenji S, Naghdi N, Oryan S, **Azadmanesh K**. Intrahippocampal Injection of 3 $\alpha$  Diol (a Testosterone Metabolite ) and Indomethacin (3 $\alpha$ -HSD Blocker), Impair Acquisition of Spatial Learning and Memory in Adult Male Rats. *Iran J Pharm Res*. 2013 Summer;12(3):457-69.

Negahdari B, Khorramizadeh MR, Modarresi MH, Hartoonian C, Shokrghozar MA, **Azadmanesh K**. Evaluation of optimal concentration and exposure duration of valproic acid alone or in combination with ViraDuctin to augment adenovirus transduction in human adipose stem cells. *Cytotherapy*. 2014 May;16(5):612-8. doi: 10.1016/j.jcyt.2013.08.015. Epub 2013 Nov 12. (Corresponding author)

Dabirian S, Taslimi Y, Zahedifard F, Gholami E, Doustdari F, Motamedirad M, Khatami S, **Azadmanesh K**, Nysten S, Rafati S. Human neutrophil peptide-1 (HNP-1): a new anti-leishmanial drug candidate. *PLoS Negl Trop Dis*. 2013 Oct 17;7(10):e2491. doi: 10.1371/journal.pntd.0002491. eCollection 2013

Roohandeh A, Rahimi P, Sohrabi A, Mobasheri M, **Azadmanesh K**, Shahosseini Z, Motamedirad M, Dastkhosh M. Frequency of human enterovirus 71 in children under 8 years old with aseptic meningitis in Tehran. *Clin Lab*. 2013;59(7-8):915-20.

Nabi-Meibodi M, Vatanara A, Najafabadi AR, Rouini MR, Ramezani V, Gilani K, Etemadzadeh SM, **Azadmanesh K**. The effective encapsulation of a hydrophobic lipid-insoluble drug in solid lipid nanoparticles using a modified double emulsion solvent evaporation method. *Colloids Surf B Biointerfaces*. 2013 Jun 29;112C:408-414. doi: 10.1016/j.colsurfb.2013.06.013. [Epub ahead of print]

Montazeri H, Bouzari S, **Azadmanesh K**, Ostad SN, Ghahremani MH. P53 But Not Cyclin E Acts in A Negative Regulatory Loop to Control HER-2 Expression in MCF-7 Breast Carcinoma Cell Line. *Acta Med Iran*. 2013 Sep 9;51(8):513-9.

Molanouri Shamsi M, Hassan ZH, Gharakhanlou R, Quinn LS, Azadmanesh K, Baghersad L, Isanejad A, Mahdavi M. Expression of interleukin-15 and inflammatory cytokines in skeletal muscles of STZ-induced diabetic rats: effect of resistance exercise training. *Endocrine*. 2013 Sep 6. [Epub ahead of print]

Paryan M, Mohammadi-Yeganeh S, Samiee SM, Soleimani M, Arefian E, **Azadmanesh K**, Poopak B, Mostafavi E, Karimipoor M, Mahdian R. Investigation of deregulated genes of Notch signaling pathway in human T cell acute lymphoblastic

leukemia cell lines and clinical samples. *Mol Biol Rep*. 2013 Aug 29. [Epub ahead of print]

Esamaeili S, **Azadmanesh K**, Naddaf SR, Rajerison M, Carniel E, Mostafavi E. Serologic survey of plague in animals, Western Iran. *Emerg Infect Dis*. 2013 Sep;19(9). doi: 10.3201/eid1909.121829. No abstract available.

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Gheisari Y, Ahmadbeigi N, Aghaee-Bakhtiari SH, Nassiri SM, Amanpour S, **Azadmanesh K**, Hajarizadeh A, Mobarra Z, Soleimani M. Human Unrestricted Somatic Stem Cell Administration Fails to Protect Nude Mice from Cisplatin-Induced Acute Kidney Injury. *Nephron Exp Nephrol*. 2013 Aug 1;123(3-4):11-21. [Epub ahead of print]

Ahmadbeigi N, Soleimani M, Vasei M, Gheisari Y, Mortazavi Y, **Azadmanesh K**, Omidkhoda A, Janzamin E, Nardi NB. Isolation, Characterization, and Transplantation of Bone Marrow-Derived Cell Components with Hematopoietic Stem Cell Niche Properties. *Stem Cells Dev*. 2013 Sep 14. [Epub ahead of print]

Sardari S, **Azadmanesh K**, Mahboudi F, Davood A, Vahabpour R, Zabihollahi R, Gomari H. Design of Small Molecules with HIV Fusion Inhibitory Property Based on Gp41 Interaction Assay. *Avicenna J Med Biotechnol*. 2013 Apr;5(2):78-86.

Taghavi MS, Akbarzadeh A, Mahdian R, **Azadmanesh K**, Javadi G. Cisplatin downregulates BCL2L12, a novel apoptosis-related gene, in glioblastoma cells. *In Vitro Cell Dev Biol Anim*. 2013 Jun;49(6):465-72. doi: 10.1007/s11626-013-9622-4. Epub 2013 May 25.

Ranji N, Sadeghizadeh M, Shokrgozar MA, Bakhshandeh B, Karimipour M, Amanzadeh A, **Azadmanesh K**. MiR-17-92 cluster: an apoptosis inducer or proliferation enhancer. *Mol Cell Biochem*. 2013 Aug;380(1-2):229-38. doi: 10.1007/s11010-013-1678-7. Epub 2013 May 17.

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**Azadmanesh K**, Norouzfard ZS, Sohrabi A, Safaie-Naraghi Z, Moradi A, Yaghmaei P, Naraghi MM, Arashkia A, Eslamifar A. Characterization of human herpes virus 8 genotypes in Kaposi's sarcoma patients in Tehran, Iran. *Int J Mol Epidemiol Genet*. 2012;3(2):144-52. Epub 2012 May 15.

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Azarpazhooh MR, Hasanpour K, Ghanbari M, Rezaee SA, Mashkani B, Hedayati-Moghaddam MR, Valizadeh N, Farid Hosseini R, Foroghipoor M, Soltanifar A, Sahebari M, **Azadmanesh K**, Hassanshahi G, Rafatpanah H. Human T-lymphotropic virus type 1 prevalence in northeastern Iran, Sabzevar: an epidemiologic-based study and phylogenetic analysis. *AIDS Res Hum Retroviruses*. 2012 Sep;28(9):895-901. Epub 2012 Mar 19.

Mahinpour R, Riazi G, Shokrgozar MA, Sarbolouki MN, Ahmadian S, Hadi Alijanvand H, **Azadmanesh K**, Douraghi M, Heidari M, Naghdi Gheshlaghi Z, Moosavi-Movahedi AA. Disruption of tubulin polymerization and cell proliferation by 1-Naphthylarsonic acid. *Cell Biol Int*. 2012 Jan 3. [Epub ahead of print]

Behdani M, Zeinali S, Khanahmad H, Karimipour M, Asadzadeh N, **Azadmanesh K**, Khabiri A, Schoonooghe S, Habibi Anbouhi M, Hassanzadeh-Ghassabeh G, Muylldermans S. Generation and characterization of a functional Nanobody against the vascular endothelial growth factor receptor-2; angiogenesis cell receptor. *Mol Immunol*. 2011 Dec 29. [Epub ahead of print]

Dastpeyman M, Motamed N, **Azadmanesh K**, Mostafavi E, Kia V, Jahanian-Najafabadi A, Shokrgozar MA. Inhibition of silibinin on migration and adhesion capacity of human highly metastatic breast cancer cell line, MDA-MB-231, by evaluation of  $\beta$ 1-integrin and downstream molecules, Cdc42, Raf-1 and D4GDI. *Med Oncol*. 2011 Nov 19. [Epub ahead of print]

Mohajel N, Najafabadi AR, **Azadmanesh K**, Vatanara A, Moazeni E, Rahimi A, Gilani K. Optimization of a spray drying process to prepare dry powder microparticles containing plasmid nanocomplex. *Int J Pharm*. 2011 Nov 11. [Epub ahead of print]

Seyed N, Zahedifard F, Safaiyan S, Gholami E, Doustdari F, **Azadmanesh K**, Mirzaei M, Saeedi Eslami N, Khadem Sadegh A, Eslami Far A, Sharifi I, Rafati S. In silico analysis of six known Leishmania major antigens and in vitro evaluation of specific epitopes eliciting HLA-A2 restricted CD8 T cell response. *PLoS Negl Trop Dis*. 2011 Sep;5(9):e1295. Epub 2011 Sep 6.

Sohrabi A, Norouzfard ZS, Eslamifar A, Arashkia A, **Azadmanesh K**. Isolation of *Cupriavidus metallidurans* from razor blade during paraffin embedded tissue sectioning. *Clin Lab*. 2011;57(7-8):641. ( Corresponding author)

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Norouzfard Z.,Sohrabi A.,Yaghmayi P.,Safaei Naraghi Z.,Moradi A.,Eslamifar A.,**Azadmanesh K**. Evaluating the prevalence of herpes simplex virus type 8 related Kaposi's sarcoma in Iran by nested PCR. *Journal of microbial biotechnology fall 2010*; 2(6):25-31.

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against hepatitis C virus core DNA vaccine. Cytokine. 2009 Apr;46(1):43-50. Epub 2009 Mar 10.

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Khanahmad H.; **Azadmanesh K**.; Shokrgozar M.A.; Niavarani A.R.; Karimi M.; Maryami F.; Rabbani B.; Bagheri R.; Khalili M.; Zeinali S (2006) Design and constructing pBGGT Plasmid: a carrier plasmid for Beta thalassaemia gene targeting. Iran J Pediatr, 16(1): 63-70 (in Persian)

Khanahmad H, Noori Dalooi M.R, Shokrgozar M.A., **Azadmanesh K**., Niavarani. A.R, Karimi M., Rabani B, Bagheri R, Khalili M Maryami F, Zeinali.S (2006) A novel single step double positive double negative selection strategy for beta globin gene replacement. Biochem Biophys Res Commun, 2006 Jun 23;345(1):14-20

**Azadmanesh K**. Roohvand F., Amini S., Andalibi Mahmoodabadi S., Kazanji M.(2004) Isolation of IFN-gamma gene from olive baboon and designing a semi quantitative competitive PCR method to quantify the gene expression. Ofogh-e-Danesh (journal of Gonabad University of Medical sciences), 10(3): 20-30(in Persian) (Corresponding author) (published in 2005)

**Azadmanesh K**. Roohvand F., Amini S., Arashkia A., Kazanji M. (2005) Evaluation of stimulatory effects of HTLV-I Tax protein on CREB and NFkB related signaling pathways using two newly designed beta galactosidase based reporter plasmids. Yakhteh Medical Journal, 6(24):218-225 (in Persian)(Corresponding author).

**Azadmanesh K**., Roohvand F., Amini S., Kazanji M. (2004)Detection, cloning, molecular characterization and phylogenic analysis of a new Primate T-cell Lymphotropic Virus type I in olive baboon. Iranian J Biotech., 2(1): 25-34 (Corresponding author)

Dehghani M, Heydari A, Hamedanchi A, **Azadmanesh K.** Comparison between two echocardiographic methods of PAP estimation in 46 patients with pulmonary hypertension.(2000) Medical Journal of Mashhad University of Medical Sciences, 43(67): 4-20 (in Persian)

Several abstracts in proceedings of national and international congresses

**Fields of interest:**

Cancer virotherapy, viral vaccines, Retrovirology.( HIV and HTLV related studies), viral vaccines, Apoptosis, Cancer gene therapy, Immunomodulation, molecular epidemiology, Gene delivery systems, Bioinformatics, Detection and control of emerging and re-emerging infections

**Teaching experience:**

Lecturer in 4 workshops on Research methodology in biomedical systems, Mashhad University of medical sciences, 1997-1999. ( lectures including epidemiological methodology, statistical design and research ethics)

Lecturer on "Applications of biotechnology in cancer treatment" for Biotechnology students, Tehran university , faculty of sciences. 2005

Lecture on HTLV-I vaccine for Ph.D. students of Pasteur Institute of Iran, 2005-2008

Lecturer on Genetic engineering of mammalian cells, for Ph.D. students of Pasteur Institute of Iran, and PhD students of school of Veterinary medicine, Tehran university 2005-2011

Lecturer on Immunology for MSc students of biotechnology, Pasteur Institute of Iran, and Ph.D. students of biotechnology, Terhan university. 2006

Lecturer on retrovirology for MSc and Ph.D. students, Pasteur Institute of Iran, 2006-2011

Lecturer on bioinformatics for Ph.D. and MSc students, Pasteur institute of Iran, 2006-2011

Lecturer in bioinformatics workshops, National Network of molecular medicine, 2006-2012

Lecturer on immunologic tests for HIV and infectious diseases, national workshops held by the centre of disease control, Ministry of health

Lecturer in “international training course for HIV/AIDS lab technicians on HIV/AIDS laboratory training workshop: concept, methods and practical approaches, NRITLD, Tehran, 12-23 May 2007;

Lecturer in “International workshop for TB program managers” NRITLD, Tehran, May 2008, May 2009

Lecturer in “Field Epidemiology “ course, TUMS, School of public health, 2008 ( under WHO supervision)

Lecturer in “ Novel topics in epidemiology” course, for Ph.D. students of medical biotechnology, Pasteur institute of Iran, 2009-2012

Lecturer in “Flowcytometry Workshop” National Network of molecular medicine, 2012

Lecturer in “Phylogenetic analysis Workshop” National Network of molecular medicine, 2010

**Some current and previous projects:**

Evaluating suicide gene therapy approach for HTLV-I

Cloning and expression of HTLV-I Tax protein

DNA vaccination studies for HTLV-I and HCV

Anti HIV Drug discovery

Designing protocols for HIV detection/monitoring based on dried blood sampling (DBS) (partly supported by UNAIDS and national CDC); implemented in several Bio-Behavioural surveillance studies nationwide.

Responsible for Biological tests of the national bio-social survey of intravenous drug abusers, 2007 (supported by the national CDC and UNDP); and QC supervisor of its second round in 2010

Establishing the Early response to infectious diseases team, Pasteur Institute of Iran, 2007 (financially supported by the ministry of health and medical educations)

Genotyping of HIV+ MSMs of Tehran, to complete the Tehran Bio behavioral study of 1385 (supported by UNAIDS)

Lab coordinator of the national “Bio-Behavioral Surveillance System for HIV in high risk group” projects.

Cloning and expression of IL-29 and evaluating its antiviral activity against HTLV-1

Genotypic diversity of HHV-8 in Kaposi sarcoma patients in Tehran

Construction of molecular clones for polio virus (Sabine strains), mumps and measles (vaccine strains)

Virotherapy of cancer cell lines

HIV-1 drug resistance threshold survey in Tehran, 2010 ( supported by WHO)

Production of VZV vaccine

**Supervisor of Ph.D. project:**

Nasir Mohajel: Preparation of inhalable microparticles containing thiolated chitosan-pDNA nanocomplexes by spray drying technology, Tehran University of Medical Sciences, Faculty of Pharmacy

Chrisitne Hartoonian: Cloning and expression of HCV core and murine MIP-3 $\beta$  in a two cassette based vector and evaluation of immunomodulatory effects of MIP-3 $\beta$  as a genetic adjuvant for HCV core DNA vaccine. Tehran University of Medical Sciences, Faculty of Pharmacy

Nima Mohaghegh: Studying The effect of P<sup>18</sup>- cyclin E and Adenoviral E<sub>4</sub> and E<sub>1</sub>B proteins in enhancement of sensitivity of Hela and SW480 cell lines to anticancer drug Bleomycin. Pasteur institute of Iran

Mahsa Rasekhian: construction of genetically modified poliovirus to lyse colorectal cancerous cell lines. Pasteur institute of Iran

Mohammad Hossein Etemadzadeh: Construction of mumps molecular clone and pseudotyping it with measles glycoproteins. Pasteur institute of Iran

Fatemeh Jahanbakhsh: Evaluating the frequency of minority HIV drug resistance in untreated cases. Tehran university of Medical Sciences, School of Medicine

Babak Negahdari: Transduction of human adipose stem cells by EGF or TGF coding adenoviral vectors and evaluating the effect of EGF or TGF expressing cells on human keratinocytes. Pasteur Institute of Iran

Mojtaba Fattahi: Construction of high throughput indicator cell line for evaluating viral titer and drug resistancy of HTLV -1. Jondi Shapour Meidcal University, Ahwaz, Iran

Mahdi Shakouri: Designing and developing lentiviral vectors including Ag85A-ESAT6 and evaluating their immunogenicity against mycobacterium tuberculosis in vivo.

Farhad Motevalli: Expression and improvement of immunization using L2 protein as a Human Papilloma Virus vaccine candidate. Pasteur Institute of Iran

Fatemeh Ghassemi

**Supervisor of MSc project:**

Somayeh Kadkhodayan: Cloning the HTLV-I tax gene and evaluation of its expression and immunogenicity in BALB/c mice. Sciences and Researches unit, Islamic Azad University, Tehran . 2007-2008

Hosna Gomari: Gp41based HIV fusion inhibition and study of new analogues . Khatam University. Tehran. 2008-2009

Samaneh Saffar. Cloning and Expression of HTLV-1 Tax protein and its purification by Chromatography. Tehran University of Medical Sciences, 2008.-2010

Parisa Amir. Cloning and evaluating invitro activity of recombinant IL-29 from mature dendritic cells. Tarbiat modarres University. Tehran, 2009-2010

Zeinab Norouzfard. Genotyping HHV-8 strains among Kaposi sarcoma patients of Tehran, Sciences and Researches unit, Islamic Azad University, Tehran . 2009-2010

Bahareh Zebhi. Designing and clinical evaluation of an array- based HPV genotyping kit. Sciences and Researches unit, Islamic Azad University, Tehran . 2010-2011