

## 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: ۸.۱.۲۰۱۷.

**Present position:** Head of Virology department.

Contact info:

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Virology Department  
Pasteur Institute of Iran,  
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Previous positions :

Head of IT unit, Pasteur Institute of Iran : Jan –Apr 2008

Assistant Prof. of Hepatitis and AIDS, Sept 2005- 2010

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 theses:

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:**

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, Schoonoghe S, Habibi Anbouhi M, Hassanzadeh-Ghassabeh G, Muyltermans 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)

Bayati V, Sadeghi Y, Shokrgozar MA, Haghighipour N, **Azadmanesh K**, Amanzadeh A, Azari S. The evaluation of cyclic uniaxial strain on myogenic differentiation of adipose-derived stem cells. *Tissue Cell*. 2011 Dec;43(6):359-66. Epub 2011 Aug 26.

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.

Mahdavi M, Ebtekar M, Khorram Khorshid HR, **Azadmanesh K**, Hartoonian C, Hassan ZM. ELISPOT analysis of a new CTL based DNA vaccine for HIV-1 using GM-CSF in DNA prime/peptide boost strategy: GM-CSF induced long-lived memory responses. *Immunol Lett*. 2011 Oct 30;140(1-2):14-20. Epub 2011 May 23.

Ghaedi M, Soleimani M, Taghvaie NM, Sheikhatollahi M, **Azadmanesh K**, Lotfi AS, Wu J. Mesenchymal stem cells as vehicles for targeted delivery of anti-angiogenic protein to solid tumors. *J Gene Med*. 2011 Mar;13(3):171-80.

Sadat SM, Zabihollahi R, Aghasadeghi MR, Vahabpour R, Siadat SD, Memarnejadian A, **Azadmanesh K**, Parivar K. Application of SCR Priming VLP Boosting as a Novel Vaccination Strategy Against HIV-1. *Curr HIV Res*. 2011 Mar 29. [Epub ahead of print]

Zabihollahi R, Sadat SM, Vahabpour R, Aghasadeghi MR, Memarnejadian A, Ghazanfari T, Salehi M, Rezaei A, **Azadmanesh K**. Development of single-cycle replicable human immunodeficiency virus 1 mutants. *Acta Virologica* 2011;55(1):15-22. (Corresponding author)

Mahmoudi M, **Azadmanesh K**, Shokrgozar MA, Journey WS, Laurent S. Effect of Nanoparticles on the Cell Life Cycle. *Chem Rev*. 2011 Mar 14

Rahimi P, Sohrabi A, Ashrafihelan J, Edalat R, Alamdari M, Masoudi MH, Mostofi S, **Azadmanesh k**. Emergence of African Swine Fever Virus, Northwestern Iran. *Emerg Infect Diseases* 16(12), December 2010: 1946-8 (Corresponding author)

Saffar S, **Azadmanesh K**, Golmohammadi T, Golkar M, Amminian M, Mirshahabi H, Rafatpanah H. Production of recombinant HTLV1 Tax protein in Rosetta(DE3) bacterial host *J Paramed Science*, Autumn 2010, 1(4):35-41 (corresponding author)

Ahmadbeigi N, Soleimani M, Gheisari Y, Vasei M, Amanpour S, Bagherizadeh I, Shariati SA, **Azadmanesh K**, Amini S, Shafiee A, Arabkari V, Nardi NB. Dormant Phase and Multinuclear Cells: Two Key Phenomena in Early Culture of Murine Bone Marrow Mesenchymal Stem Cells. *Stem Cells Dev*. 2010 Nov 17

Samadi-Foroushani M, Vahabpour R, Memarnejadian A, Namdar A, Khamisabadi M, Sadat SM, Asgarian-Omran H, **Azadmanesh K**, Kokhaei P, Aghasadeghi MR, Hadjati J. Immune responses regulation following antitumor dendritic cell-based prophylactic, concurrent, and therapeutic vaccination. *Med Oncol*. 2011 Dec;28 Suppl 1:660-6. Epub 2010 Nov 2

Mahdavi Mahdi, Ebtekar M., **Azadmanesh K**., Mahboudi F, Khoram Khourshid H.R., Rahbarizadeh F., Mohammadzadeh Adel, Zahir Mohammad Hassan modares journal of medical sciences (pathobiology) winter 2010; 12(4):85-98.

Mehregan H, Sadeghizadeh M, Zarindast MR., **Azadmanesh K**., Jahanshahi A, Shirzad H., Saadati M. Effect of morphine-sensitization in d2 receptor gene expression in the mice brain in the absence and presence of lithium chloride. *Cell journal (yakhteh)* fall 2010; 12(3 (47)):395-404

Shokrgozar MA, Farokhi M, Rajaei F, Bagheri MH, Azari S, Ghasemi I, Mottaghitalab F, **Azadmanesh K**, Radfar J. Biocompatibility evaluation of HDPE-UHMWPE reinforced  $\beta$ -TCP nanocomposites using highly purified human osteoblast cells. *J Biomed Mater Res A*. 2010 Sep 28.

Tabatabaee PA, Abolhassani M, Mahdavi M, Nahrevanian H, **Azadmanesh K**. *Leishmania major*: Secreted antigens of *Leishmania major* promastigotes shift the immune response of the C57BL/6 mice toward Th2 in vitro. *Exp Parasitol*. 2010 Jul 20.

Mahdavi M, Ebtekar M, **Azadmanesh K**, Khorramkhorshid HR, Rahbarizadeh F, Yazdi MH, Zabihollahi R, Abolhassani M, Hassan ZM. HIV-1 Gag p24-Nef fusion peptide induces cellular and humoral immune response in a mouse model. *Acta Virol.* 2010;54(2):131-6.

Gheisari Y, Nassiri SM, Arefian E, Ahmadbeigi N, **Azadmanesh K**, Jamali M, Jahanzad I, Zeinali S, Vasei M, Soleimani M. Severely damaged kidneys possess multipotent renoprotective stem cells. *Cytotherapy.* 2010 May;12(3):303-12.

Teimoori-Toolabi L, **Azadmanesh K**, Amanzadeh A, Zeinali S. Selective suicide gene therapy of colon cancer exploiting the urokinase plasminogen activator receptor promoter. *BioDrugs.* 2010 Apr 1;24(2):131-46.

Teimoori-Toolabi L, **Azadmanesh K**, Zeinali S. Selective suicide gene therapy of colon cancer cell lines exploiting fibroblast growth factor 18 promoter. *Cancer Biother Radiopharm.* 2010 Feb;25(1):105-16.

Mahmoudi M, Simchi A, Vali H, Imani M, Shokrgozar MA, **Azadmanesh K**, Azari F. Cytotoxicity and Cell Cycle Effects of Bare and Poly(vinyl alcohol)-Coated Iron Oxide Nanoparticles in Mouse Fibroblasts. *ADVANCED ENGINEERING MATERIALS* 2009, 11, No. 12: B243-250

Mahdavi M, Ebtekar M, Mahboudi F, Khorram Khorshid H, Rahbarizadeh F, **Azadmanesh K**, Darabi H, Pourasgari F, Hassan ZM. Immunogenicity of a New HIV-1 DNA Construct in a BALB/c Mouse Model. *Iran J Immunol.* 2009 Dec;6(4):163-73.

Sadeghiani G, Zare M, Babaie J, Shokrgozar MA, **Azadmanesh K**, Fard-Esfahani P, Golkar M. Heterologous production of dense granule GRA7 antigen of *Toxoplasma gondii* in *Escherichia coli*. *Southeast Asian J Trop Med Public Health.* 2009 Jul;40(4):692-700

Mizbani A, Taheri T, Zahedifard F, Taslimi Y, Azizi H, **Azadmanesh K**, Papadopoulou B, Rafati S. Recombinant *Leishmania tarentolae* expressing the A2 virulence gene as a novel candidate vaccine against visceral leishmaniasis. *Vaccine.* 2009 Dec 10;28(1):53-62. Epub 2009 Oct 8.

Bouzari S, Oloomi M, **Azadmanesh K**. Study on induction of apoptosis on HeLa and Vero cells by recombinant shiga toxin and its subunits. *Cytotechnology.* 2009 Aug

Hartoonian C, Ebtekar M, Soleimanjahi H, Karami A, Mahdavi M, Rastgoo N, **Azadmanesh K**. Effect of immunological adjuvants: GM-CSF (granulocyte-macrophage colony stimulating factor) and IL-23 (interleukin-23) on immune responses

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

Gheisari Y, Soleimani M, **Azadmanesh K**, Zeinali S. Multipotent mesenchymal stromal cells: Optimization and comparison of 5 Cationic Polymer Based Gene Delivery Methods. Cytotherapy , Dec 2008 :1-9 (Corresponding author)

**Azadmanesh K**, Mohraz M, Aghakhani A, Edalat R, Jam S, Eslamifar A, Banifazl M, Moradmand-Badie B, Ramezani A. (2008) Occult Hepatitis B Virus Infection in HIV-Infected Patients with Isolated Hepatitis B Core Antibody. Intervirology. 2008 Oct 7;51(4):270-274.

Golkar M, **Azadmanesh K**, Khalili G, Khoshkholgh Sima B, Babaie J, Mercier C, Brenier-Pinchart MP, Fricker-Hidalgo H, Pelloux H, Cesbron-Delauw MF.(2007) Serodiagnosis of Recently Acquired *Toxoplasma gondii* Infection in Pregnant Women Using Enzyme-Linked Immunosorbent Assays with a Recombinant Dense Granule GRA6 Protein. Diagn Microbiol Infect Dis, 2008 Jan 31.

Amini. S., Ahmadipour MH, **Azadmanesh K**. (2006) Sequences of two Iranian HCV carriers suggest for a new subtype of genotype 3. Virus Gene, 2006 Dec;33(3):271-8. (Corresponding author)

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, 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.

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, 2006-2011

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, 2009-2011

**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, (Co-supervisor) 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. Iran university of Medical Sciences, School of Medicine

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

Adviser of Ph.D. projects:

Masoumeh Azizi  
Mahdi Parian  
Negar Seyyed

Somayeh Asadian (supervised by Dr. Nasser Naghdi), Ph.D. student of physiology, Islamic Azad University, Sciences and Research campus,

Hossein Eliasi.(Supervised by Dr. Majid Golkar), Ph.D. student of Parasitology, Shahid Beheshti medical university.

Mahdi Behdani Generation and Selection of Single Chain Monoclonal Antibody against Vascular Endothelial Growth Factor Receptor 2 (VEGFR-2) by Phage Display: (Supervised by Dr. S. Zeinali) Pasteur institute of Iran

Nasir Saeidi:Assessment and immunogenicity of epitopes from Leukemia associated antigens in HLA-A0201+ mouse model. (supervised by Dr. Alimohammadian), Pasteur institute of Iran

Hamed Montazeri (Supervised by Dr. Saeed Bouzari). Pasteur Institute of Iran

Negar Seyed: Designing a *Leishmania major* Protective Polytope Vaccine based on Human HLA class I epitopes Using Bioinformatics and *In Silico* Prediction Models, and Evaluation in HLA Transgenic Mice (supervised by Dr.Sima Rafati) Pasteur institute of Iran

Mehdi Mahdavi: Construction of HIV-1Tat expression vector and co-administration with IL-15, GM-CSF to assess Gene construct efficacy in mouse model. (supervised by Dr. Masoumeh Ebtekar) Tarbiat modares university

Morteza Samadi Foroushani: Enhancing the portency of Activated dendritic vaccine with Listeria monocytogen by downregulating FoxP3+ Tcells. (supervised by Dr. Hajati, Tehran University of Medical Sciences, Faculty of Medicine

Arash Arashkia: Evaluation of immuno-stimulatory potential of HCV subdominant epitopes in polytope constucts (supervised by Dr. Farzin Roohvand) Pasteur Institute of Iran

Ladan Teimouri Toolabi: Designing and construction of two suicide gene therapy constructs specific for colon cancer and evaluating their expression in vitro. (supervised by Dr. Sirous Zeinali) Pasteur Institute of Iran

Yousof Gheisari : Evaluation of Therapeutic Effects of CXCR4 Overexpression In Bone Marrow Stromal Cells In Ischemic Renal Failure (Supervisors: Dr. Sirous Zeinali and Dr. Masoud Soleimani) Pasteur Institute of Iran

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