

**IN THE NAME OF GOD**

***CURRICULUM VITAE***



**PERSONAL DATA**

- **Name:** MOSTAFA SALEHI-VAZIRI
- **Date of Birth:** Sep 21, 1985
- **Place of Birth:** Iran
- **Gender:** Male
- **Nationality:** Iranian
- **Language:** Persian/English
- **Marital Status:** Married
- **Work Address:** Arboviruses & Viral Hemorrhagic Fevers Dept. (National Reference Laboratory), Pasteur institute of Iran, Pasteur Ave., Tehran 1316943551, Iran.
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**EDUCATION**

- **Ph.D.** in *Medical Virology*, Tehran University of Medical Sciences, Tehran, Iran (2011-2015).
- **M.Sc.** in *Medical Virology*, Tehran University of Medical Sciences, Tehran, Iran (2009-2011), (Top ranked student in the class).
- **B.Sc.** in *Medical Lab. Sciences*, Shiraz University of Medical Sciences, Shiraz, Iran (2007-2008), (Third ranked student in the class).
- **Associate Diploma** in *Medical Lab. Sciences*, Shahid Sadoughi University of Medical Sciences, Yazd, Iran (2004-2007), (Forth ranked student in the class).

### **Awards and Honors:**

- Kazemi Ashtiani Award, Iran's National Elites Foundation, 2017.
- Achievement of excellent score (20 out of 20) for Ph.D. thesis (Tehran University of Medical Sciences, 2015).
- Top ranked researcher of virology department, Iran University of Medical Sciences (2015).
- Top ranked student of virology department, Tehran University of Medical Sciences (2012).
- Forth ranked student among the participants in the national entrance exam for Medical Virology Ph.D. program (2011).
- Top ranked student among the participants in the national entrance exam for Medical Virology M.Sc. program (2009).

### **Trainings:**

- GOARN (Global Outbreak Alert and Response Network) Training on Outbreak Response, Mexico City, Mexico. 28 April-6 May 2017.
- Advanced Security In The Field , UNDSS, 27 April 2017.
- Basic Security In The Field II, UNDSS, 28 April 2017.
- Regional ISTC/BACAC “CCHFV/EBOLA Capacity Building Training Seminar for Leading and Young Scientist”. 19<sup>th</sup>-21<sup>st</sup> Sep 2016, Dushanbe, Tajikistan.
- 13th HKU-Pasteur Virology Course “Bats and Viruses”. 10<sup>th</sup>- 22<sup>th</sup> Jul 2016. HKU Research Center, Hong Kong.
- Elsevier Authors Workshop on "How to Write an International Article". 29<sup>th</sup> Oct. 2014, Tehran University of Medical Sciences, Tehran, Iran.
- Twenty-ninth workshop on "teaching strategies and teaching techniques". 2014, Tehran University of Medical Sciences, Tehran, Iran.
- Workshop on Systematic Review & Meta-Analysis during the fifth International Tehran Hepatitis Congress. 15<sup>th</sup>- 17<sup>th</sup> May. 2013, Tehran.
- Principles of protection and bio-safety biological/medical laboratory. 21<sup>th</sup> Jul. 2008, Shiraz University of Medical Sciences, Shiraz, Iran.

### **Professional Affiliations**

- Jul 2015 to present, Head of Arboviruses & Viral Hemorrhagic Fevers Dept. (National Reference Laboratory), Pasteur Institute, Tehran, Iran.
- Apr. 2015 to present, Assistant Professor and Researcher in Arboviruses & Viral Hemorrhagic Fevers Dept., Pasteur Institute, Tehran, Iran.
- 2011-2015, Ph.D. Candidate and Research Assistant in Tehran University of Medical Sciences, Tehran, Iran.

**Membership:**

- Aug 2017 to present, member of Biosafety committee of Pasteur Institute of Iran.
- March 2016 to present, member of National committee of Aedes borne diseases.
- Jul 2015 to present, member of National committee of Crimean-Congo Hemorrhagic Fever.
- Jan 2015 to present, member of Iranian society of virology.

**International collaboration:**

- WHO EMRO
- LAVAL University, Canada
- Institut Pasteur Guinea
- Institut Pasteur Dakar
- Institut Pasteur Paris

**Research and Technical Skills:**

- Basic molecular biology and recombinant DNA technology (DNA/RNA extraction, Cloning, PCR, RT-PCR, Real Time PCR and DNA Sequencing).
- Mammalian cell culture (adherent and suspension).
- Basic virology techniques (Virus cultivation, Virus titration by TCID 50 and Plaque Assay).
- Molecular epidemiology and phylogenetic analysis.
- Medical Lab. diagnosis tests (Biochemistry, Hematology, Serology, and Microbiology).

**Research Interests:**

- Molecular Epidemiology and Phylogenetic Analysis of Arboviruses and Viral Hemorrhagic Fevers.
- Emerging & Re-emerging Viral Infections.
- Pathogenesis of Crimean-Congo Hemorrhagic Fever (CCHFV).
- Molecular epidemiology and oncogenesis of Human Polyomaviruses (MCPyV, JCV, BKV).
- Molecular epidemiology and carcinogenesis of Human Papillomaviruses.
- Molecular epidemiology and antiviral resistance of Hepatitis C Virus (HCV).

## **Positions in Research Projects:**

### **1- Principal Investigator and Grant Holder in:**

- Predicting the potential distribution of Alkhurma Hemorrhagic Fever virus and Sever Fever with Thrombocytopenia Syndrome virus vectors in Iran.
- Study of Crimean-Congo Hemorrhagic Fever virus Kinetic in serum, whole blood, urine and saliva specimens
- Whole genome analysis of Crimean-Congo Hemorrhagic Fever virus in Iran. Pasteur Institute of Iran.
- Evaluation of Crimean –Congo Hemorrhagic Fever (CCHF) infection in Ixodidae ticks in ruminant from Rafsanjan by RT\_PCR in Rafsanjani County in 2016. Pasteur Institute of Iran.
- Serological analysis for presence of IgG antibody against Hantaviruses in villagers of East-Azərbayjan province. Pasteur Institute of Iran.
- Evaluation of Tick Borne Encephalitis Virus infection in Ixodes ricinus ticks from Mazandaran province. Pasteur Institute of Iran.
- Serological and molecular analysis of serum from patients with symptoms of Hantavirus infection IRAN. Pasteur Institute of Iran.
- Evaluation of sequence variations in ISDR, PKRBD and V3 domains of HCV NS5A gene between interferon and Ribavirin combinational therapy resistant and sensitive strains. Tehran University of Medical Sciences.

### **2- Co-investigator in Granted Projects:**

- Human Papillomavirus Type 16 Variant Analysis of E6, E7, and L1 Genes and Long Control Region in Cervical Carcinoma Samples. Tehran University of Medical Sciences.
- Investigation Of Human Brain Tumors For The Presence Of Human Polyomaviruses JC,BK & MCPyV Genome & Evaluation Of Viral LTA<sub>g</sub> & VP1 Gene Expression in These Tumors. Tehran University of Medical Sciences.
- Association between TRIM22 level of gene expression and response to Peg-Interferon alfa and Ribavirin combinational therapy in hepatitis c virus infected patients. Tehran University of Medical Sciences.
- Serological and Molecular analysis of serum from patients with symptoms of Hantavirus infection IRAN. Pasteur Institute of Iran.
- Molecular and Serological analysis of serum from patients with symptoms of Chikungunya virus infection in IRAN. Pasteur Institute of Iran.
- Serological analysis for presence of IgG antibody against Tick Borne Encephalitis Virus in villagers of Mazandaran province. Pasteur Institute of Iran.

- Serological analysis of the presence of IgG antibody against West Nile infection in human habitant in Khuzestan province. Pasteur Institute of Iran.
- Impact of climate changes on the distribution of *Aedes aegypti* and *Aedes albopictus* in Iran. Pasteur Institute of Iran.
- Molecular epidemiology and distribution pattern of CCHF virus in East of Iran
- Molecular analysis of West Nile virus infection in Culicine mosquitoes collected from Khuzestan province. Pasteur Institute of Iran.
- Rodent-borne emerging and re-emerging zoonotic diseases in the north-western Iran: molecular epidemiology, taxonomy, population genetics, and phylogeny of the reservoir hosts and pathogens. Pasteur Institute of Iran.
- Study of West Nile virus infection in suspected CCHF patients with Central neurological manifestation. Pasteur Institute of Iran.

## PUBLICATIONS

1- Baniasadi V, Pouriayevali MH, Jalali T2, Fazlalipour M, Azadmanesh K, **Salehi-Vaziri M. Evaluation of first rapid diagnostic kit for Anti-Crimean-Congo Hemorrhagic Fever virus IgM antibody using clinical samples from Iran.** J Virol Methods. 2018.

2- Manoochehr Shabani, Heshmatollah Shakeri, **Mostafa Salehi-Vaziri**, Kaveh Sadeghi, Hossein Nasr Azadani, Yousef Hosseini, Abbas Ahmadi Vasmehjani.**Seroepidemiological Survey of Crimean-Congo Hemorrhagic Fever Among Livestock in Southern Iran, Jahrom, 2015-2016.** Journal of Research in Medical and Dental Science, 2018.

3- A Almasi-Hashiani, E Ayubi, K Mansori, M **Salehi-Vaziri** et al.**Prevalence of Hepatitis B Virus Infection Among Iranian High Risk Groups: A Systematic Review and Meta-Analysis.** Gastroenterology and Hepatology from bed to bench, 2018.

4- MHK Niya, H Keyvani, FS Tameshkel, M **Salehi-Vaziri** et al. **Human Papillomavirus Type 16 Integration Analysis by Real-time PCR Assay in Associated Cancers.** Translational oncology, 2018.

5- M Ahmadkhani, AA Alesheikh, S Khakifirouz, M **Salehi-Vaziri.** **Space-time epidemiology of Crimean-Congo hemorrhagic fever (CCHF) in Iran.** Ticks and Tick-borne Diseases, 2017.

- 6- Ehsan Mostafavi, Kouros Holakouie-Naieni, **Mostafa Salehi Vaziri**. **Reply: Surveillance of Crimean-Congo Haemorrhagic Fever in Pakistan**. Journal of Medical Microbiology and Infectious Diseases. 2017.
- 7- Mehdi Fazlalipour, Vahid Baniasadi, Ali Majidpour, Mohammad Hassan Pouriayevali, Tahmineh Jalali, Tahereh Mohammadi, Sanam Azad-Manjiri, Yasaman Jamshidi, Sara Azizizadeh, Motahareh Hosseini, Sahar Khakifirouz, **Mostafa Salehi-Vaziri**, **A Case of Methotrexate Intoxication Misdiagnosed as Crimean-Congo Hemorrhagic Fever**. J Med Microbiol Infec Dis, 2016, 4 (1-2): 37-38
- 8- Vahabpour R, Nasimi M, Naderi N, **Salehi-Vaziri M**, Mohajel N, Sadeghi F, et al. **Merkel cell polyomavirus IgG antibody levels are associated with progression to AIDS among HIV-infected individuals**. Arch Virol (2017) 162:963–969
- 9- **Salehi-Vaziri M**, Salmanzadeh S, Baniasadi V, Jalali T, Mohammadi T, Azad-Manjiri S, et al. **An Outbreak of Crimean-Congo Hemorrhagic Fever in the South West of Iran**. Jundishapur Journal of Microbiology. 2016.
- 10- Bokharaei-Salim F, **Salehi-Vaziri M**, Sadeghi F, Khanaliha K, Esghaei M, Monavari SH, et al. **Genetic Variation in Interleukin-28B and Response to Peg-IFN $\alpha$ -2a/RBV Combination Therapy in Patients with Hepatitis C Virus Infection**. Jundishapur Journal of Microbiology. 2016.
- 11- Aslani D, **Salehi-Vaziri M**, Baniasadi V, Jalali T, Azad-Manjiri S, Mohammadi T, et al. **Crimean-Congo hemorrhagic fever among children in Iran**. Archives of virology. 2016:1-5.
- 12- Bokharaei-Salim F, **Salehi-Vaziri M**, Sadeghi F, Esghaei M, Monavari SH, Alavian SM, et al. **The Association of Substitutions in the Hepatitis C Virus Subtype 1b Core Gene and IL28B Polymorphisms With the Response to Peg-IFN $\alpha$ -2a/RBV Combination Therapy in Azerbaijani Patients**. Hepatitis Monthly. 2016;16(5).
- 13- Sadeghi F, **Salehi-Vaziri M**, Almasi-Hashiani A, Gholami-Fesharaki M, Pakzad R, Alavian SM. **Prevalence of Hepatitis C Virus Genotypes Among Patients in Countries of the Eastern Mediterranean Regional Office of WHO**

**(EMRO): A Systematic Review and Meta-Analysis.** Hepatitis monthly. 2016;16(4).

14- **Salehi-Vaziri M**, Sadeghi F, Hashiani AA, Fesharaki MG, Alavian SM. **Hepatitis B Virus Infection in the General Population of Iran: An Updated Systematic Review and Meta-Analysis.** Hepatitis monthly. 2016;16(4).

15- **Salehi-Vaziri M**, Sadeghi F, Hashemi FS, Haeri H, Bokharaei-Salim F, Monavari SH, et al. **Distribution of Human Papillomavirus Genotypes in Iranian Women According to the Severity of the Cervical Lesion.** Iranian Red Crescent Medical Journal. 2016;18(4).

16- Vahabpour R, Aghasadeghi MR, **Salehi-Vaziri M**, Mohajel N, Keyvani H, Nasimi M, et al. **Prevalence of Merkel Cell Polyomavirus in Tehran: An Age-Specific Serological Study.** Iranian Red Crescent Medical Journal. 2016;18(5).

17- **Mostafa Salehi-Vaziri**, Vahid Baniasadi, Tahmineh Jalali, S Maryam Mirghiasi, Sanam Azad-Manjiri, Roya Zarandi, Tahereh Mohammadi, Sahar Khakifirouz, and Mehdi Fazlalipour. **The first fatal case of Crimean-Congo hemorrhagic fever due to AP92 like strain of Crimean-Congo hemorrhagic fever virus.** . Japanese journal of infectious diseases. 2016(0).

18- Fazlalipour M, Baniasadi V, Mirghiasi SM, Jalali T, Khakifirouz S, Azad-Manjiri S, Mahmoodi V, Naderi HR, Zarandi R, **Salehi-Vaziri M.** **Crimean-Congo Hemorrhagic Fever due to Consumption of Raw Meat: A Case Reports From East-North of Iran.** Japanese journal of infectious diseases. 2016;69(3):270-1.

19- Mostafa **Salehi-Vaziri** , Farzin Sadeghi , Firoozeh Sadat Hashemi , Hayedeh Haeri , Farah Bokharaei-Salim , Seyed Hamidreza Monavari , Hossein Keyvani. **Distribution of Human Papillomavirus Genotypes in Iranian Women According to the Severity of the Cervical Lesion.** Iranian Red Crescent Medical Journal, In Press. 2016 In Press(In Press): e24458.

20- Mostafa **Salehi-Vaziri**, Farzin Sadeghi, Farah Bokharaei-Salim, Sarang Younesi, Samaneh Alinaghi , Seyed Hamidreza Monavari , Hossein Keyvani. **Prevalence and Genotype Distribution of Human Papillomavirus in the Genital Tract of Men in Tehran, Iran.** Jundishapur Journal of Microbiology, 2015 December; 8(12): e21912.

21- Sadeghi F, **Salehi-Vaziri M**, Ghodsi SM, Alizadeh A, Bokharaei-Salim F, Saroukalaei ST, et al. **Prevalence of JC polyomavirus large T antigen sequences**

**among Iranian patients with central nervous system tumors.** Archives of virology. 2015; 160(1):61-8.

22- Farzin Sadeghi, Ghanadan Alireza, **Mostafa Salehi-Vaziri**, Farah Bokharaei-Salim, Hossein Keyvani. **Merkel Cell Polyomavirus Infection in Iranian Patient with Merkel Cell Carcinoma: Report of a Young Case.** Jundishapur Journal of Microbiology. 2015; 8(3): e17849.

23- Mostafa **Salehi-Vaziri** , Farzin Sadeghi , Amir Alamsi-Hashiani , Hayedeh Haeri , Seyed Hamidreza Monavari , Hossein Keyvani. **Merkel Cell Polyomavirus and Human Papillomavirus Infections in Cervical Disease in Iranian Women.** Archives of virology. 2015; 160 (5):1181-7

24- Sadeghi F, **Salehi-Vaziri M**, Alizadeh A, Ghodsi SM, Bokharaei-Salim F, Fateh A, et al. **Detection of Merkel Cell Polyomavirus Large T-Antigen Sequences in Human Central Nervous System Tumors.** Journal of Medical Virology. 2015; 87(7):1241-7

25- Bokharaei-Salim F, Keyvani H, **Salehi-Vaziri M**, Sadeghi F, Monavari SH, Mehrnoush L, et al. **Mutations in the NS5A gene of hepatitis C virus subtype 1b and response to peg-IFN $\alpha$ -2a/RBV combination therapy in Azerbaijani patients.** Archives of virology. 2014; 159 (11): 2893-9.

26- Sadeghi F, Bokharaei-Salim F, **Salehi-Vaziri M**, Monavari SH, Alavian SM, Salimi S, et al. **Associations between human TRIM22 gene expression and the response to combination therapy with Peg-IFN $\alpha$ -2a and ribavirin in Iranian patients with chronic hepatitis C.** Journal of Medical Virology. 2014; 86(9):1499-506.

27- Afagh Moattari, Ali Ghanbari Asad, Ardalan Mansouri, **Mostafa Salehi Vaziri**, Farshid Moradpour Shammami. **Evaluation of Measles, Rubella, Mumps, Hepatitis B and Varicella Zoster Antibodies in Medical and Dental Students in Shiraz, Iran.** Novelty in Biomedicine. 2014; 2, 6-9.

28- Monavari SH, **Vaziri MS**, Khalili M, Shamsi-Shahrabadi M, Keyvani H, Mollaei H, et al. **Asymptomatic seminal infection of herpes simplex virus: impact on male infertility.** Journal of biomedical research. 2013; 27 (1): 56.

29- Monavari SH, Keyvani H, **Salehi-Vaziri M**, Bokharaei-Salim F. **Prevalence of human herpesvirus 8 infection in Iranian patients with hematological**



**malignancies.** International Journal of Medicine and Medical Sciences. 2013; 5 (4): 206-9.

30-Seyed Hamidreza Monavari, Samileh Noorbakhsh, Farideh Ebrahimi Taj, Hamidrezamollaie, Mehdi Fazlalipour, **Mostafa Salehi Vaziri.** **Human Herpesvirus-6 and Human Herpesvirus-7 Infection in Iranian Patients with Neurological Illness.** International Research Journal of Biotechnology. 2012; 3 (1): 1-4.

31-Seyed Hamidreza Monavari, Hossein Keyvani, Bahman Abedi Kiasari, Hamidreza Mollaei, Mehdi Fazlalipour, **Mostafa Salehi Vaziri** and Fatemeh O. Fallah. **Detection of cytomegalovirus (CMV) antibodies or DNA sequences from ostensibly healthy Iranian mothers and their neonates.** International Journal of Medicine and Medical Sciences. 2012; 4 (8): 155-159.

32-Monavari SH, Keyvani H, **Salehi-Vaziri M,** Bokharaei-Salim F. **Detection of human T-cell lymphotropic virus Type-1 among patients with malignant hematological diseases in Capital of Iran, Tehran.** Journal of General and Molecular Virology. 2011; 3 (5): 67-70.

33-Salehi-vaziri M, Monavari SH , Khalili M, Shamsi-Shahrabadi M, Keyvani H, Mollaei H, Fazlalipour M. **Detection of HSV-1 DNA in the Semen of Infertile Men and Evaluation of its Correlation with Semen Parameters in Iran.** Iranian Journal of Virology 2010; 4 (2): 1-6

34-Jarrahpour A, Eskandari M, Zomorodian K, Barati E, Ashori R, **Salehi Vaziri M,** et al. **Synthesis of Some New Monocyclic  $\beta$ -Lactams Bearing a Morpholine Moiety at their N1 Positions as Antifungal Agents.** Anti-Infective Agents in Medicinal Chemistry (Formerly Current Medicinal Chemistry-Anti-Infective Agents). 2010; 9 (4): 205-19.

## PRESENTATIONS

- 1- **Salehi-Vaziri M,** Monavari SH , Khalili M, Shamsi-Shahrabadi M, Keyvani H, Mollaei H, Fazlalipour M. The association of HSV-1, 2 infections with male infertility. 2th seminar on reproductive biology, Oct 2012, Yazd, Iran (Oral presentation).
- 2- **Salehi-Vaziri M,** Baniasadi V, Khakifirouz S, Jalali T. Crimean-Congo Hemorrhagic Fever in Iran. A one-day scientific conference of Iranian Society of Virology, Jul 2015, Tehran, Iran (Oral presentation).

- 3- **Salehi-Vaziri M.** Crimean-Congo Hemorrhagic Fever Biosafety. Shahid Beheshti University of Medical Sciences. 21 Nov 2015, Tehran, Iran (Invited oral presentation).
- 4- **Salehi-Vaziri M.** Laboratory Diagnosis of Zika Virus. Pasteur Institute of Iran. 23 Feb 2016, Tehran, Iran (Invited oral presentation).
- 5- **Salehi-Vaziri M.** Laboratory Diagnosis of Zika Virus. Tehran University of Medical Sciences. 26 May 2016, Tehran, Iran (Invited oral presentation).
- 6- **Salehi-Vaziri M.** Laboratory Diagnosis of Zika Virus. Tehran University of Medical Sciences. 26 May 2016, Tehran, Iran (Invited oral presentation).
- 7- **Salehi-Vaziri M.** A Review of Latest Status Diseases from Aedes Mosquitoes. 18<sup>th</sup> International & Iranian Congress of Microbiology, Tehran University of Medical Sciences. 29-31 Aug 2017, Tehran, Iran (Invited oral presentation).
- 8- **Salehi-Vaziri M.** New studies in CCHF. 19<sup>th</sup> International & Iranian Congress of Microbiology, Tehran University of Medical Sciences. 4-6 Sep 2018, Tehran, Iran (Invited oral presentation).
- 9- **Salehi-Vaziri M.** Molecular detection of Rodent borne diseases. International training course on Rodent and Rodent-borne diseases, Research Centre for Emerging and Reemerging infectious diseases (RCERID), Pasteur Institute of 6-10 Oct 2018, Iran, Akanlu, Kabudar Ahang, Hamadan, Iran

#### **SUPERVISOR / ADVISOR OF PH.D. AND M.SC. THESES**

- 1- **Production of a Recombinant Nucleoprotein of Crimean-Congo Hemorrhagic Fever Virus and Development of DNA Aptamer for it by Protein SELEX Method,** Microbial Biotechnology PhD, Shahed University, Tehran, Iran.
- 2- **Immunogenicity Evaluation of Adenovirus Vector containing Structural and nonstructural Proteins of Dengue Virus as a Vaccine Candidate.** PhD, Pasteur Institute of Iran, Tehran, Iran
- 3- **Bacterial microflora and Species richness of Hyalomma spp, the tick vectors of CCHF virus in order to select proper candidate for paratransgenic approach in important CCHF foci in Iran,** Medical Entomology PhD, Tehran University of Medical Science, Tehran, Iran.

- 4- **Detection and Phylogenetic Analysis of Crimean-Congo Hemorrhagic Fever Virus in Hard Tick Population from Kerman Province of Iran.** Molecular Genetics M.Sc. thesis, Tarbiat Modares University, Tehran, Iran.
- 5- **Serological and Molecular analysis of serum from patients with symptoms of Hantavirus infection IRAN.** Microbial Biotechnology MSc, PNU University, Tehran, Iran.
- 6- **Evaluation of Crimean –Congo Hemorrhagic Fever (CCHF) infection in Ixodidae ticks in Kohkilooyeh va Boyerahmad by RT\_PCR in 2016.** Medical Entomology MSc, Shiraz University of Medical Science, Shiraz, Iran.
- 7- **Serological analysis of the presence of IgG antibody against West Nile infection in human habitant in Khuzestan province,** Microbial Biotechnology MSc, PNU University, Tehran, Iran.
- 8- **Spatial Analysis of Crimean –Congo Hemorrhagic Fever (CCHF) disease.** Geographical Information System MSc, K. N. Toosi University of Technology, Tehran, Iran.

#### **TEACHING EXPERIENCES**

- 1- “Medical Virology” theoretical course for M.Sc. students of Microbiology, Pasteur Institute of Iran, Tehran, autumn 2015.
- 2- “Medical Virology” theoretical course for Ph.D. students, Pasteur Institute of Iran, Tehran, autumn 2015.
- 3- “Medical Virology” theoretical course for M.Sc. students of Microbiology, Pasteur Institute of Iran, Tehran, autumn 2016.
- 4- “Medical Virology” theoretical course for Ph.D. students, Pasteur Institute of Iran, Tehran, autumn 2016.