



**Curriculum Vitae
Zabihollah Shoja**

Personal Information:

Name: Zabihollah Shoja

Marital Status: Married, 1 child

Sex: Male

Nationality: Iranian

Date of Birth: 22 June, 1979

Place of Birth: Noor, Mazandaran, Iran

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Language: Persian/English

University Education:

- Tehran University of Medical Science, Iran. Ph.D., Virology, 2013
- Molecular Biology and Viral Oncogenesis Istituto Nazionale Tumori "Fond. G. Pascale". Naples, Italy. Training on Practical Virology, particularly phylogenetic analysis and VLP technology. Dec. 2010-Oct 2011.
- Tehran University of Medical Science, Tehran, Iran. M.Sc., Virology, 2006.
- Mashhad University of Medical Science, Mashhad, Iran. B.Sc., Medical Laboratory, 2002.
- Mazandaran University of Medical Science, Mazandaran, Iran. Technician, Medical Laboratory, 2000.

Research Experience:

- Cell Culture
- **Serological methods:** HI, HA, IFA, ELISA, NT, Western Blot (Reducing and Non-reducing).
- **Molecular biology:** PCR, RT- PCR, Real-time PCR, RFLP, Cloning, PAGE, SDS-PAGE, Southern blot.
- **Bioinformatic softwares:** BioEdit, Treecon, Clustal X, Oligo Ver.7, Primer design, Mega 6, CLC Ver 5.5, ICM Browser, Highlighter tool and the Synonymous Non-synonymous Analysis Program (SNAP).
- **Statistical analysis softwares:** Excel, GrapPad Prism 5.
- **Reference management software:** Reference Manger, EndNote

Fields of Interest:

1. Major Field of research: Enteric viruses (Particularly rotavirus)
2. Oncoviruses
3. Oncolytic viruses
3. Respiratory viruses
4. Blood-born viruses

Presented courses:

1. Lecturer on "**viruses and nanotechnology (viral nanoparticles)**" for Ph.D. students of nanotechnology, School of Advanced Technologies in Medicine, Tehran university of medical sciences, Tehran, Iran, 2014.
2. Lecture on "**The nature and Immunochemistry of viruses**" for Ph.D. students of Microbiology, Faculty of Basic Science, Qom Branch, Azad Islamic University, Qom, Iran, 2015.

Awards:

- Getting the first degree in M.Sc. national exam
- Being the top student in M.Sc. course
- Getting the first degree in Ph.D. national exam

Dissertation:

Ph.D.: Rotavirus like particles synthesis with cloning of VP2, VP6 and VP7 capsid genes, their expression in eukaryotic system and evaluation of immunogenicity in vivo for vaccine development.

Advisor: Dr. Rakhshandeh Nategh

M.Sc: Identification of enterovirus in AFP cases less than 15 years old in West Azarbayjan province – year 2003.

Advisor: Dr. Rakhshandeh Nategh and Dr. Hamideh Tabatabai

Publications:**Book:**

Zabih-Ollah Shoja, Saeed Namaki, Rasool Hamkar, and Abbas Mirshafiey. Rotavirus vaccines . 2010, Chapter; Vaccines in Viral Infections. By Rasool Hamkar, Abbas Mirshafiey, Saeed Namaki and Talat Mokhtari-Azad. Published English by Shahid Beheshti University of Medical Sciences.

Articles:

1. **Zabihollah Shoja**, Maria Tagliamonte, Somayeh Jalilvand, Yaghoub Mollaei-Kandelous, Maria Lina Tornesello, Franco M. Buonaguro, Luigi Buonaguro. Formation of self-assembled triple layer rotavirus like particles (tIRLPs) using Constitutive expression of VP6 and VP7 in stable high-five cell line constitutively expressing rotavirus VP2. **Journal of Medical Virology**. 2015; 87:102–111
2. Somayeh Jalilvand, **Zabihollah Shoja**, Keramat Nourijelyani, Hamid Reza Tohidi, and Rasool Hamkar. Meta-analysis of type-specific human papillomavirus prevalence in Iranian women with normal cytology, precancerous cervical lesions and invasive cervical cancer: Implications for screening and vaccination. **Journal of Medical Virology**. 2015; 87(2):287-95
3. Somayeh Jalilvand, **Zabihollah Shoja**, Rasool Hamkar. Human papillomavirus burden in different cancers in iran: a systematic assessment. **Asian Pac J Cancer Prev**. 2014;15(17):7029-35.
4. **Zabihollah Shoja**, Somayeh Jalilvand, Mollaei-Kandelous Y, Validi M. Epidemiology of Viral Gastroenteritis in Iran. **Pediatr Infect Dis J**. 2014 ;33(2):218-20.
5. Marashi SM, Jalilvand S, Mollaei-Kandelous Y, Shahmahmoodi S, Rezaei F, Salimi V, Nejati A, Validi M, **Shoja Z**. Intra-peritoneal and intra-rectal immunogenicity induced by rotavirus virus like particles 2/6/7 in mice. **Microb Pathog**. 2014 ;67-68:48-54.
6. Rezaei F, Mirshafiee A, Shahmahmoodi Sh, **Shoja Z**, Ghavami N, Mokhtari-Azad T. Influenza virus-like particle containing two different subtypes of hemagglutinin confers complete protection in mice against lethal challenge with A/PR8 (H1N1) and A/HK (H3N2) viruses. **Iranian Red Crescent**. 2013; 15(1): 75-82
7. **Shoja Z**, Tagliamonte M, Jalilvand S, Mokhtari-Azad T, Hamkar R, Shahmahmoodi Sh, Rezaei F, Tornesello M, Buonaguro F.M, Buonaguro L, Nategh R. Development of a stable insect cell line constitutively expressing rotavirus VP2. **Virus Research**. 2013; 172: 66-74
8. **Shoja Z**, Jalilvand S, Azad TM, Nategh R. Epidemiology of Co-Circulating Human Rotaviruses in Iran. **Pediatr Infect Dis J**. 2013; 32(4): 178-81.
9. **Shoja Z**, Tagliamonte M, Jalilvand S, Ziaee AA, Mokhtari-Azad T, Hamkar R, Shahmahmoodi S, Rezaei F, Tornesello M, Buonaguro FM, Nategh R, Buonaguro L. Molecular characterization of the outer

layer protein (VP7) from human rotavirus A genotype G1 strain identified in Iran: implications for vaccine development. **New Microbiologica** 2012; 35: 415-427.

10. Jalilvand S, Tornesello M.L, Buonaguro F.M, Buonaguro L, Safaie Naraghi Z, **Shoja Z**, Ziaee A.A, Hamkar R, Shahmahmoodi S, Nategh R, Mokhtari-Azada T. Molecular epidemiology of human Herpesvirus 8 variants in Kaposi's sarcoma from Iranian patients. **Virus Research** 2012; 163: 644-649.
11. Jalilvand S, **Shoja Z**, Mokhtari-Azad T, Nategh R, Gharehbaghian A. Seroprevalence of Human herpesvirus 8 (HHV-8) and incidence of Kaposi's sarcoma in Iran. **Infectious Agents and Cancer** 2011, 6:5.
12. **Shoja Z.O**, Tabatabai H, Shahmahmoudi S, Nategh R. Comparison of cell culture with RT-PCR for enterovirus detection in stool specimens from patients with acute flaccid paralysis. **Journal of Clinical Laboratory Analysis** 2007; 21 (4): 232-6.
13. **Shoja Z.O**, Tabatabai H, Sarijloo M, Shahmahmoudi S, Mokhtari Azad T, Nategh R. Detection of Enteroviruses by Reverse-Transcriptase Polymerase Chain Reaction in Cell Culture Negative Stool Specimens of patients with acute flaccid paralysis. **Journal of Virological Methods** 2007; 142 (1-2): 95-7.
14. Tabatabai H, **Shoja Z.O**, Sarijloo M, Shahmahmoudi S, Sarijloo A, Farokhi K, Mahmoudi M, Mokhtari Azad T, Nategh R. Identification of enterovirus causing AFP in AFP cases less than 15 years old in West Azarbayjan province – year 2003. **Journal of Faculty of Health** (In Persian). 2007; 5(2): 79-86.
15. Somayeh Jalilvand, **Zabihollah Shoja**, Zahra Safaie-Naraghi, Shahram Saberi, Mona Masoumeh Naraghi, Rakhshandeh Nategh, Talat Mokhtari-Azad. Kaposi's sarcoma in Iran: clinicopathologic characteristics and immunohistochemical/ molecular analysis of 44 patients. Submitted to journal.
16. Somayeh Jalilvand, Maria Lina Tornesello, **Zabihollah Shoja**, Zahra Safaie Naraghi, Franco M. Buonaguro, Luigi Buonaguro, Asgar Baghernejad Nesheli, Fahimeh Zamani and Talat Mokhtari-Azada. MDM2 gene polymorphisms and risk of Kaposi's sarcoma among Iranian patients. Submitted to Journal.

Presentations:

1. Somayeh Jalilvand, **Zabihollah Shoja**, Fahimeh Zamani and Talat Mokhtari-Azad. The role of Mitochondrial Haplogroups in Kaposi's sarcoma development. 1st International and 13th Iranian Genetics Congress. May 24-26, 2014, Tehran Iran.
2. **Zabihollah Shoja**, Somayeh Jalilvand, Mahdi Marashi, Yaghoub Mollaei-Kandelous, Ahmad Nejati. Generation of core like particles (CLPs) using constitutive expression of rotavirus VP2 in High-five insect cell line. 1st Comprehensive National Congress of Novel Findings in Biology. May 7-8, 2014, Tehran, Iran.
3. **Shoja Z**, Jalilvand S, Shahmahmoodi Sh, Marashi M, Mollaei-Kandelous Y, Nejati A. Formation of self-assembled virus like particles 2/6/7 of rotavirus in stably transfected high-five insect cell line

and their immunogenicity evaluation. 12th International Congress of Immunology & Allergy of Iran Milad Tower-Tehran. 29th April- 2nd May, 2014, Tehran, Iran.

4. Somayeh Jalilvand, Zahra Safaie Naraghi, **Zabihollah Shoja**, Mona-Masomeh Naraghi, Rakhshandeh Nategh and Talat Mokhtari-Azad. Human Herpesvirus 8 Variants in Iranian Kaposi's sarcoma Patients. 14th Annual Congress of Iranian Society of Pathology. October, 17-19 2012.
5. Jalilvand S, Tornesello M.L, Buonaguro F.M, Buonaguro L, Safaie Naraghi Z, **Shoja Z**, Ziaee A.A, Nategh R, Mokhtari-Azada T. Molecular epidemiology of human Herpesvirus 8 variants in Kaposi's sarcoma from Iranian patients. The 3rd International Conference on Viral Oncology Research. October, 4-6 2011.
6. **Shoja Z.O**, Shahm Mahmoudi S, Tabatabai H, Nategh R. Evaluation of cell culture and RT-PCR in non-polio enteroviruses detection from stool specimens of patients with acute flaccid paralysis. The 2nd Iranian Congress of Clinical Microbiology. October, 7-9 2008.
7. M. Kareghar, S. Sadeghipour, M. Sarijlou, H. Tabatabaii, Sh. Shah-Mahmoodi, B. Zarei, **Z.O Shoja** and R. Nategh. The assessment of different methods to remove organic inhibitors for creation of the sensitive method for direct surveillance of enteroviral infectious disease in sewage specimens. 25th Annual Meeting, American Society for Virology. July, 15-19 2006.
8. M. Kareghar, S. Sadeghipour, M. Sarijlou, H. Tabatabaii, Sh. Shah-Mahmoodi, B. zarei, **Z.O Shoja** and R. Nategh. Comparison and evaluation of 10 methods for elimination of organic inhibitors in waste water to direct diagnosis Enteroviruses by RT-PCR, 3rd Iranian congress on virology. Jan, 21-23 2006.
9. **Zabih-Ollah Shoja** and Yaghub Mollai. Epidemiology of AIDS in the world, Azad university of Semnan.

Workshops:

1. **Real – Time PCR** principles in clinical virology: application and pitfalls. In Shariati hospital Tehran university of medical sciences. 27 November 2006.
2. **Flow Cytometry**. Pathobiology Department, School of Public Health, Tehran University of Medical Sciences. 29th January, 2006
2. **Teaching of training course**. 17th workshop of educational strategies. October, 19-21 2007.
3. **Workshop of research strategy in medical sciences**. Tehran University of medical sciences. November, 2007
4. **How to Publish a Scientific Journal Article**. Tehran University of Medical Sciences, Iran on 18th February 2013.

References Persons:

1. Rakhshandeh Nategh. MD, Ph.D, Professor of Virology and Head of National Poliovirus laboratory in Virology Unit, Pathobiology Department, School of Public Health, Tehran University of Medical Science. rnategh@gmail.com

2. Franco M. Buonaguro. MD, Ph.D, Professor of Virology and Head of Unit of Molecular Biology and Viral Oncogenesis Istituto Nazionale Tumori “Fond. G. Pascale”. Naples, Italy. fmbuonaguro@tin.it

3. Luigi Buonaguro. MD, Ph.D, Associate Professor of Virology, Unit of Molecular Biology and Viral Oncogenesis Istituto Nazionale Tumori “Fond. G. Pascale”. Naples, Italy. lbbuonaguro@tin.it

4. Maria Lina Tornesello. Ph.D, Associate Professor of Virology, Unit of Molecular Biology and Viral Oncogenesis Istituto Nazionale Tumori “Fond. G. Pascale”. Naples, Italy. m.tornesello@istitutotumori.na.it