

CURRICULUM VITAE

PERSONAL DATA

Name: Mohammad Hassan Pouriayevali

Date of Birth: September 03, 1981

Place of Birth: Isfahan / Iran

Gender: Male

Nationality: Iranian

Native Language: Persian

Marital Status: Married



Professional Experience

- **2017-Present:** Assistant Professor, Department of Arboviruses & Viral Hemorrhagic Fevers, Pasteur Institute of Iran.

Contact Information

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Education

2011-2016 PhD in Medical Virology - Tarbiat Modarres University, Tehran, Iran

2005-2008 M.Sc. in Medical Virology - Tarbiat Modarres University, Tehran, Iran

2001-2005 B.Sc. in Medical Laboratory- Medical University of Mashhad, Mashhad, Iran.

Ph.D Thesis

Immunologic Evaluation of Co-delivery of HCV NS3 and Listeryolisin O Plasmids in BALB/c Mouse Model

Supervisor: Dr.Taravat Bamdad and Dr.Mohammadreza Aghasadeghi

Advisors: Dr. Farzaneh Sabahi and Dr. Mehdi Sadat

Professional Activities

2005 -present Member of Iranian Society of Virology

Projects

- Designing, constructing and evaluation of bicistronic plasmid capable of simultaneous expression of antigen and IL18/Ig adjuvant
- Evaluation of Human Metapneumovirus and Respiratory Syncytial Virus Infections Prevalence by Molecular Method in Children with Lower Respiratory Tract Infection hospitalized to Tehran Ali Asghar Hospital During 2010 to 2012
- Development of CHO cell line to stable expression of HIV Nef and Vpr

Published Papers

- ❖ Nemattalab M, Shenagari M, Mojtahedi A, Aghasadeghi M R, **Pouriayevali MH**, Taheri M et al . Design, cloning and expression assay of oipA gene in a bicistronic vector harboring mice IL-18 gene: potential implications for Helicobacter pylori vaccine investigations. JBRMS. 2017; 4
- ❖ **Pouriayevali MH**, Bamdad T, Sadat SM, Sabahi F, Aghasadeghi M R. Construction of pLLO vector encoding truncated form of Listeriolysin O as molecular adjuvant for DNA vaccine studies. Arch Med Lab Sci. 2016;2(3):89-93.
- ❖ **Mohammad Hassan Pouriayevali**, Taravat Bamdad, Mohammad Reza Aghasadeghi, Seyed Mehdi Sadat, Farzaneh Sabahi. Construction and Immunogenicity Analysis of Hepatitis C Virus (HCV) Truncated Non-Structural Protein 3 (NS3) Plasmid Vaccine. Jundishapur J Microbiol. 2016 March; 9(3):e33909.
- ❖ Masoud Parsania, Behzad Poopak, **Mohammad Hassan Pouriayevali**, Sama Haghighi, Aref Amirkhani, and Alireza Nateghian. Detection of Human Metapneumovirus and Respiratory Syncytial Virus by Real-Time Polymerase Chain Reaction Among Hospitalized Young Children in Iran. Jundishapur J Microbiol. 2016 Mar; 9(3): e32974.
- ❖ Zavvar M, Moshiri A, Motevali F, **Pouriayevali MH**, Bahramali G .Construction of pIRES2 vector encoding truncated NS3 of HCV and IL-18 . Vaccine Research. 2015; 2(1): 24-28

- ❖ **Pouriayevali M**, Bamdad T, Sadat S, Sabahi F, Aghasadeghi M, Yazdani S. Establishment of NS3 tumor cell line expressing Hepatitis C virus Non-structural Protein 3 as valuable tool for HCV challenging in mice. *vacres*. 2015; 2 (5 and 6) :101-106.
- ❖ **Pouriayevali MH**, Zavvar M, Aghasadeghi MR, Sadat SM, Azizi-Saraji AR, Javadi F, Sadraraei J ,Mostafavi E, Motevalli F, Rahimi P, Shafiee Ardestani M, Akkafzadeh E. A study on the prevalence of rotavirus infection among the HIV-positive patients with gastroenteritis. *Feyz, Journal of Kashan University of Medical Sciences*. 2013; 17(3):294-299.(in Persian)
- ❖ AkramTabatabaee, Seyed Davar Siadat, Seyed Fazllolah Mousavi, Mohammad Reza Aghasadeghi , Arash Memarnejadian, **Mohammad Hassan Pouriayevali**, and Neda Yavari. Overexpression and Purification of C-terminal Fragment of the Passenger Domain of Hap Protein from Nontypeable Haemophilus influenzae in a Highly Optimized Escherichia coli Expression System. *Avicenna J Med Biotech* 2013; 5(3): 176-185.
- ❖ Dorostkar, Rohollah; Bamdad, Taravat; Parsania, Masoud; **Pouriayevali, Hassan**. An Endogenous Immune Adjuvant Released by Necrotic Cells for Enhancement of DNA Vaccine Potency.. *Iranian Journal of Immunology* 2012: 9(4): 215-25.
- ❖ S.Yazdani Neyshabouri, MR.Aghasadeghi ,A.Jahanian Najafabadi, S.Bouzari, A.Arashkia, SM. Sadat,SD. Siadat, ZA. Sadigh, S.Hekmat ,**MH.Pouriayevali**, N.Kashanizadeh .Expression of recombinant Hepatitis C virus (HCV)Core, E1 and E2 proteins by the baculovirus expression vector system. *African Journal of Microbiology Research* Vol. 6(19), pp. 4152-4157. 2012
- ❖ **Mohammad Hassan Pouriayevali**, Taravat Bamdad, Masoud Parsania, Rohollah Dorostkar Sari. Full length antigen priming enhances the CTL epitope-based DNA vaccine efficacy. *Cellular Immunology*, 2011.268: 4-8,
- ❖ Seyed Davar Siadat, Saied Reza Naddaf , Mehrangiz Zangeneh, Arfa Moshiri, Seyed Mehdi Sadat, Mehdi Shafiee Ardestani, **Mohammad Hassan Pouriayevali**, Safieh Amini and Mohammad Reza Aghasadeghi. Outer membrane vesicle of Neisseria meningitides serogroup B as an adjuvant in immunization of rabbit against Neisseria meningitidis serogroup A. *African Journal of Microbiology Research* .2011; 5(19): 3090-3095.
- ❖ **Pouriayevali MH**, Memarnejadian AR, Sadat M, Zavva M, Siadat SD, Hartoonian C, et al. Designing and construction of bicistronic plasmid pIRES-

Igk/mIL 18/Fc potential implications for vaccine investigations. Modares J Med Sci: Pathobiol 2011; 14 (2): 13– 23.

- ❖ Masoud Parsania, Taravat Bamdad, Zuhair Hassan, Maryam Kheirandish, **Mohammad Hassan Pouriayevali**, Rohollah Dorostkar Sari, Abbas Jamali. Evaluation of apoptotic and anti-apoptotic genes on efficacy of DNA vaccine encoding glycoprotein B of Herpes Simplex Virus type 1. Immunology Letters 128: 137-142, 2010.
- ❖ Parsania M, Hassan Z, Bamdad T, Kheirandish M, **Pouriayevali MH**, Dorostkar R, Sarbolouki M, Jamali A, Mahdavi M. Pro-apoptotic gene enhances the immunogenicity of glycoprotein B gene of herpes simplex virus-1. Gene Therapy and Molecular Biology, 12: 7-14, 2008.
- ❖ Zahra Torab, Behzad Poopak*, Ali Akbar Movassaghpour Akbari*, Mohammadreza Younesi, Fatemeh Sheikhsofla, Mohammad Hassan Pouriayevali, Karim Shams asanjan. Evaluation of prevalence of JAK2 exon 12 gene mutations among Iranian patients with polycythemia vera: a case study and review of the literature. Biomedical Research 2017; 28 (3)

Lectures

- ❖ Designing and evaluation of HCV exhausted mice model . 7th Iranian congress of virology 10-11 may 2017
- ❖ Listeriolysin O Plasmid as Genetic Adjuvant for Hepatitis C virus DNA vaccine. 13th international congress of immunology and allergy of Iran. Tabriz University of Medical sciences and Iranian society for immunology and allergy 2016
- ❖ Construction and Immunological Evaluation of Truncated form of the Hepatitis C virus non-Structural Protein 3 (NS3) gene. 22nd International Student Congress of(BIO)Medical Sciences. University Medical Center Groningen 2014

Posters

- ❖ Designing and construction of bicistronic plasmid capable of simultaneous expression of antigen and IL18/Ig adjuvant. 11th Iranian Congress genetics.Tehran, June 2010.

- ❖ Molecular detection of Enteric Adenovirus prevalence among Iranian HIV infected patients using Nested PCR method. 4th Iranian congress of clinical microbiology. Isfahan 9-11Nov. 2010
- ❖ Assessment of Different Protocols of full Length and immunodominant CTL epitope Glycoprotein B DNA vaccine on Cell mediated immune response in C57BL/6 mice. 11th Iranian Congress genetics.Tehran, June 2010.
- ❖ the Immunological Effects of DNA Vaccine Encoding VP22 of Herpes Simplex Virus Type 1 .4th Iranian Congress of Virology, Tehran, May 2007.
- ❖ The effect of pro-apoptotic Bax protein on efficiency of DNA vaccine encoding glycoprotein B of Herpes Simplex Virus Type 1. 4th Iranian Congress of Virology, Tehran, May 2007.
- ❖ The effect of supernatant of necrotic cells as an innate adjuvant on efficiency of DNA vaccine encoding glycoprotein B of Herpes Simplex Virus type 1. *Fourth Iranian Congress of Virology, May 2007.*
- ❖ F. Javadi ,M.R. Aghasadeghi, S.D. Siadat, S.M.Sadat, R. Vahabpour, R. Zabihollahi, **MH Pouriayevali** , M. Davari, A. Delbaz, R. Hajabed Naeini. Outer membrane vesicle of Neisseria meningitidis serogroup B as a new adjuvant to induce strong immune responses against HIV-1. International Student Congress of (bio) Medical Student, (ISCOMS2011). 7-10 th June 2011. Croningen – the Netherland.
- ❖ **M.S Pouriayevali**, S. M Sadat, M.R Aghasadeghi, M. Zavar, F Javadi, S.D Siadat, A.R Saraji,A Delbaz, R Vahabpoor,J Sadraei, R Edalat. Prevalence of rotavirus infection among Iranian HIV- infected patients with gastroenteritis. 14th Tabriz International Medical Sciences Congress (TIMSC 2011). May 2011, Tabriz-Iran.
- ❖ M. Zavar, S. M Sadat , M.R Aghasadeghi **M.S Pouriayevali**, , F Javadi, S.D Siadat, S Amini, S Hekmat, F Motevalli, J Sadraei. Another case for gastroenteritis episodes among Iranian HIV infected patients. 14th Tabriz International Medical Sciences Congress (TIMSC 2011). May 2011, Tabriz-Iran.
- ❖ M.R Aghasadeghi,A. farahani, G. bahramali, S.M. Sadat,, A. Memarnejadian. S.D Siadat, M. Mohraz,M. Foroughi, F. Javadi,F. Roohvand,R. Vahabpoor,**M.R Pouriayevali**- Prevalence of HBV Lamivudine- Resistance Mutations in a cohort of Iranian HBV- infected patient with and without HIV co-infection. *ESCMIDP1145- 2010.*

- ❖ Sadat SM, Zavvar M, **Pouriayevali MH**, Javadi F, Aghasadeghi MR, Khosravy MS, Amini S, Bahramali G, Zabihollahi R, Shafiee Ardestani M. Comparison and Optimization of Two Nested-PCR Methods for Human Adenovirus Detection in HIV Positive Patients. 8th national biotechnology congress of I.R.Iran 2013.
- ❖ Sadat SM, **Pouriayevali MH**, Zavvar M, Aghasadeghi MR, Javadi F, Shafiee Ardestani M, Rahimi P, Davari M, Azizi Saraji AR, Hekmat S, Bolhassani A. Studying Prevalence of Rotavirus Infection in Iranian HIV positive Patients with Diarrhea 8th national biotechnology congress of I.R.Iran 2013.
- ❖ Sadat SM, Zavvar M, **Pouriayevali MH**, Aghasadeghi MR, Sadrari J, Javadi F, Mostafavi E, Azizi Saraji AR, Memarnejadian A, Motevalli F, Vahabpour R. Studying the prevalence of Enteric Adenoviruses among Iranian HIV infected patients with Gastroenteritis 8th national biotechnology congress of I.R.Iran 2013.