

CURRICULUM VITAE

Fatemeh Fotouhi

Ph.D in Medical Virology

Associate Professor

Influenza and other Respiratory Viruses

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Education:

- 2005-2006 Postdoctoral fellow in Queen's University, Department of Microbiology and Immunology, Kingston, Canada
- 2000-2006 Ph.D. in Medical Virology, Tarbiat Modarres University, Tehran, Iran.
- 1995-1997 M.Sc. in Medical Virology, Tarbiat Modarres University, Tehran, Iran.
- 1985-1989 B.Sc. in Microbiology, Tehran University, Tehran, Iran.

Honors and Awards:

- 2006 First ranked among PhD students, Tarbiat Modarres University.
- 1998 Second Prize Winner, Young Researcher, In 4th Razi Festival, Winter 1998, Tehran.
- 1995 First ranked in M.Sc. Entrance Exam, Tarbiat Modarres University.

Employment History:

- 2015-now Associate Professor, Head of Influenza and other Respiratory Viruses Dept, Pasteur Institute of Iran
- 2008-2015 Assistant Professor, Influenza and other Respiratory Viruses Dept, Pasteur Institute of Iran
- 2000-2006 Research assistant, full time. Assisted post-graduated students in their projects.
- 1998-2000 Training in Research Department, Ministry of Health.
- 1995-1997 M.Sc. student, full time
- 1989-1995 Biology & Chemistry laboratory instructor in State High School

Teaching Experience:

General Virology, BS.c Students and MS.c Students, from 2009

Practical Virology, MS.c Students, from 2010

Advanced Virology, PhD Students, from 2009

Practical Immunology, MS.c Students, 2009

Modern General Virology, PhD Students, 2016

Cellular and Molecular Biology, PhD Students, 2017

Research project director:

- 1) Construction of a chimerical expression vector carrying influenza virus M2 protein and HSP70 gene and protein expression in COS-7 and/or HEK 293 cells (2010)
- 2) Production of M2-HSP70 chimeric protein containing influenza virus M2 protein and Leishmania Major HSP70 in prokaryotic system (E.coli) and assessment of its immunogenicity in mice (2012)
- 3) Application of Multiplex Real Time PCR in order to detect respiratory viruses in clinical samples collected from acute respiratory infected patients
- 4) Evaluating hemagglutinin and neuraminidase genetic changes in recent H1N1 influenza viruses in comparison with 2009 pandemic vaccine strain
- 5) protectivity assessment of intranasal administration of polyclonal antibodies
- 6) against whole Influenza A virus and conserved proteins (HA2& M2) in mice
- 7) Expression of Hemagglutinin (HA) proteins in Tobacco plant for production of virus-like particles as vaccine candidate
- 8) Evaluation of the neutralizing activity of antibodies induced by H5 influenza vaccines through production of lentiviral pseudovirus particle

Research project co-worker:

- 1) Prokaryotic production and Immunogenicity assessment of chimer Protein consisting of Influenza Virus conserved Domains of Hemagglutinin and Matrix proteins (3M2e-HA2) in mouse model
- 2) Expression of Human Influenza Hemagglutinin in BES (Baculovirus Expression System) for subunit vaccine production

- 3) Molecular analysis of influenza A virus "amantadine" resistance in Pediatric Infectious Research Center's outpatients during Fall and Winter of 1387
- 4) Virosome construction from Influenza virus to include Nucleoprotein gene as DNA vaccine against the virus
- 5) Suspending MDCK cell line for large scale culture of influenza virus
- 6) Establishment and application of RT-PCR & Real Time PCR assays to identify influenza virus
- 7) Construction of H1N1& H5N1 Influenza virus like particle containing HA and M1 proteins based on baculoviral system
- 8) Evaluation of the susceptibility to influenza virus in people suffering from Hypercholesterolemia and diabetes in terms of IFITM3 polymorphism rs12252-C
- 9) Synthesis and Lab scale production of Sucrose monolaurate glycoester as a safe Biosurfactant
- 10) Application of avian Newcastle disease virus (NDV) in combination with influenza hemagglutinin Fusogenic membrane glycoproteins (FMGs) gene as novel therapy for murine model of human papillomavirus –induced cancer
- 11) Evaluation of protective and anti-influenza immunity of influenza virosome potency as carrier of plasmid expressing influenza M2 gene and GM-CSF as genetic adjuvant in BALB/c mice model
- 12) Evaluation HIV-1 polytope candidate vaccine immunogenicity using CpG ODN adjuvant and chitosan
- 13)

Professional Activities:

1999 - present Member of Iranian Society of Virology

Workshops:

Annually Summer School Course, Pasteur Institute of Iran, Influenza& other Respiratory Viruses, from 2010

Editorial Board

Iranian Journal of virology (Executive Editor)

Jundishapur Journal of Microbiology (Associate editor)

Books:

"Baculoviruses and Insect cells as powerful tools for gene expression" published by Tehran Jahad, Tehran. I.R, 2009

"Molecular cloning & Expression of recombinant protein" published by Tarbiat Modares University, School of Medical Sciences. Tehran I. R. IRAN. 2003.

Publications (Articles):

1. Saleh M, Nowroozi M, Fotouhi F, Farahmand B*. Physicochemical study of the influenza A virus M2 protein and alum adjuvant interaction as a vaccine candidate model. *Future virology* 2019; 14(8) 17 Sep 2019 <https://doi.org/10.2217/fvl-2019-0019>.
2. Farahmand B, Taheri N, Shokouhi H, Soleimanjahi H, Fotouhi F*. Chimeric protein consisting of 3M2e and HSP as a universal influenza vaccine candidate: from in silico analysis to preliminary evaluation. *Virus Genes*. 2019 Feb; 55(1):22-32.
3. Atefeh Mohebbi, Fatemeh Fotouhi*, Abbas jamali, Ramin Yaghobi, Behrokh Farahmand, Reza Mohebbi. Molecular Epidemiology of the Hemagglutinin gene of prevalent influenza virus A/H1N1/pdm09 among patient in Iran. *Virus Research*. *Virus Res*. 2019 Jan 2; 259:38-45.
4. Moasser E, Behzadian F, Moattari A*, Fotouhi F, Rahimi A, Zaraket H, Hosseini SY. Molecular characterization and phylogenetic analysis of human influenza A viruses isolated in Iran during the 2014-2015 season. *Arch Virol*. 2017 Jul; 162(7):1975-1984.
5. Moasser E, Behzadian F*, Moattari A, Fotouhi F, Zaraket H. Characterization of the neuraminidase genes from human influenza A viruses circulating in Iran from 2010 to 2015. *Arch Virol*. 2018 Feb; 163(2):391-400.
6. Feizi N, Mehrbod P, Romani B, Soleimanjahi H, Bamdad T, Feizi A, Jazaeri EO, Targhi HS, Saleh M, Jamali A, Fotouhi F, Nargesabad RN, Abdoli A*. Autophagy

- induction regulates influenza virus replication in a time-dependent manner. *J Med Microbiol.* 2017 Apr;66(4):536-541.
7. Moradi MT, Karimi A*, Rafieian-Kopaei M, Fotouhi F. In vitro antiviral effects of *Peganum harmala* seed extract and its total alkaloids against Influenza virus. *Microb Pathog.* 2017 Sep;110:42-49.
 8. Soleimanjahi H*, Razavinikoo H, Fotouhi F, Ardebili A. Antitumor Response to a Codon-Optimized HPV-16 E7/HSP70 Fusion Antigen DNA Vaccine. *Iran J Immunol.* 2017 Sep;14(3):180-191.
 9. Mehrbod P, Eybpoosh S, Fotouhi F, Shokouhi Targhi H, Mazaheri V, Farahmand B*. Association of IFITM3 rs12252 polymorphisms, BMI, diabetes, and hypercholesterolemia with mild flu in an Iranian population. *Viol J.* 2017 Nov 9;14(1):218.
 10. Moradi MT, Karimi A*, Fotouhi F, Kheiri S, Torabi A. In vitro and in vivo effects of *Peganum harmala* L. seeds extract against influenza A virus. *Avicenna J Phytomed.* 2017 Nov-Dec;7(6):519-530.
 11. GhelichKhan M, Hosseini SM, Khansarinejad B, Fotouhi F*. Establishment of reverse transcription polymerase chain reaction assay for simultaneous detection of human parainfluenza virus types 1 to 4 in children with influenza like illnesses. *Bratisl Lek Listy.* 2017;118(12):772-776.
 12. Khateri M, Abdoli A, Motevalli F, Fotouhi F, Bolhassani A, Arashkia A, Jazaeri EO, Shahbazi S, Mehrbod P, Naziri H, Aghasadeghi MR*. Evaluation of autophagy induction on HEV 239 vaccine immune response in a mouse model. *IUBMB Life.* 2018 Mar;70(3):207-214.
 13. Mehrbod P, Abdalla MA, Njonya EM, Ahmed AS, Fotouhi F, Farahmand B, Gado DA, Tabatabaian M, Fasanmi OG, Elof JN, McGaw LJ, Fasina FO*. South African medicinal plant extracts active against influenza A virus. *BMC Complement Altern Med.* 2018 Mar 27;18(1):112.
 14. Shokouhi H, Farahmand B, Ghaemi A, Mazaheri V, Fotouhi F*. Vaccination with three tandem repeats of M2 extracellular domain fused to *Leishmania major* HSP70 protects mice against influenza A virus challenge. *Virus Res.* 2018 Jun 2; 251: 40-46.

15. Hashemzadeh MS, Mousavy SJ*, Dorostkar R, Fotouhi F, Ebrahimi F. Designing Two Individual AcMNPV Polyhedrin-Plus Bac-to-Bac Expression System in order to Express GFP and CPV-VP2 in Insect Cells. *Iran J Biotechnol.* 2017 Sep 27; 15(3):172-178.
16. Mehrbod P, Abdalla MA, Fotouhi F, Heidarzadeh M, Aro AO, Eloff JN, McGaw LJ, Fasina FO*. Immunomodulatory properties of quercetin-3-O- α -L-rhamnopyranoside from *Rapanea melanophloeos* against influenza a virus. *BMC Complement Altern Med.* 2018 Jun 15;18(1):184
17. Kadkhodayan S, Bolhassani A*, Sadat SM, Irani S, Fotouhi F. The Efficiency of Tat Cell Penetrating Peptide for Intracellular Uptake of HIV-1 Nef Expressed in *E. coli* and Mammalian Cell. *Curr Drug Deliv.* 2017;14(4):536-542.
18. Rahpeyma M, Fotouhi F*, Makvandi M, Ghadiri A, Samarbaf-Zadeh A., Expression and characterization of codon-optimized Crimean-Congo hemorrhagic fever virus Gn glycoprotein in insect cells, *Arch Virol*, 2017, 162(7):1951-1962
19. Mahboobeh Ramezannia, Seyed Masoud Hosseini, Fatemeh Fotouhi*, Behzad Khansarinejad & Vahideh Mazaheri, Development of a multiplex real-time RT-PCR assay for detection of human parainfluenza viruses in patients with respiratory symptoms, *Future Virol*, September 2016 ,Vol. 11, No. 9, Pages 611-617
20. Moeini, S. Saeidi, M. Fotouhi, F, Mondanizadeh, M. Shirian, S. Mohebi, A. Gorji, A, Ghaemi, A*. Synergistic effect of programmed cell death protein 1 blockade and secondary lymphoid tissue chemokine in the induction of anti-tumor immunity by a therapeutic cancer vaccine, *Archives of Virology*, Vol 162, 2017, Pages 333-346
21. Fatemeh Fotouhi, Mina Shaffifar, Behrokh Farahmand, Sadegh Shirian, Mohsen Saeidi, Alijan Tabarraei, Ali Gorji, Amir Ghaemi*, Adjuvant use of the NKT cell agonist alpha-galactosylceramide leads to enhancement of M2-based DNA vaccine immunogenicity and protective immunity against influenza A virus, *Arch Virol*, DOI 10.1007/s00705-017-3230-7
22. Farsad, A. S.; Malekzadeh-Shafaroudi, S.*; Moshtaghi, N.; Fotouhi, F. and Zibae, S., Expression of HA1 antigen of H5N1 influenza virus as a potent candidate for vaccine in bacterial system, *Iranian Journal of Veterinary Research (IJVR)*, 2016, Vol. 17, No. 4, Pages 237-242

23. Maedeh Bahreinian, Farida Behzadian*, Fatemeh Fotouhi, Prokaryotic Expression of H1N1 Influenza A Virus Haemagglutinin Protein Globular Domain (HA1), Archives of Medical Laboratory Sciences, Vol 2, No 3, (2016).
24. S. Kadkhodayan, S. M. Sadat, S. Irani, F. Fotouhi, A. Bolhassani*, Generation of GFP Native Protein for Detection of Its Intracellular Uptake by Cell-Penetrating Peptides, Folia Biologica (Praha) 62, 103-109 (2016)
25. Hamide Hatamihanza, Mehrdad Hashemi*, Azim Akbarzadeh, Fatemeh Fotouhi, Behrokh Farahmand, Hasan Ebrahimi Shahmabadi. Generation of truncated recombinant form of tumor necrosis factor receptor-1 to produce cancer vaccine, Tropical Journal of Pharmaceutical Research November 2016; 15 (11): 2345-2350.
26. Mehrbod P, Fotouhi F, Irani Mokhtari G, Farahmand B*. Comparison of Vero and MDCK cell lines transfected with human siat7e gene for conversion to suspension culture, Vaccine Research, 2015; 2(4): 69-73
27. Mohammad Sadegh Hashemzadeh, Seyed Jafar Mousavy*, Ruhollah Dorostkar, Fatemeh Fotouhi, and Firouz Ebrahimi, Generation of mini-Tn7 transposone by cloning of CPV-VP2 into eukaryotic expression cassette, in E. coli , International Journal of Pharmaceutical Research & Allied Sciences, 2016, 5(3):343-349
28. Mohammad Sadegh Hashemzadeh, Seyed Jafar Mousavy*, Ruhollah Dorostkar, Firouz Ebrahimi, Fatemeh Fotouhi, construction of a recombinant bacmid dna encoding viral protein-2 of canine parvovirus using site-specific transposition mechanism, 2016, IIOABJ, 7 (7): 22–27
29. Mohammad Sadegh Hashemzadeh, Seyed Jafar Mousavy*, Ruhollah Dorostkar, Firouz Ebrahimi, Fatemeh Fotouhi and Mansoureh Tabatabaeian, Cloning, subcloning and recombination of VP2 gene of canine parvovirus into baculoviral shuttle vector enabling its expression in insect cells, Der Pharmacia Lettre, 2016, 8 (5):119-127
30. Hadiseh Shokouhi, Mohammad Reza Zolfaghari, Behrokh Farahmand, Mansooreh Tabatabaeian, Najmeh Taheri, Fatemeh Fotouhi*. Immunological Assessment of Three Tandem Repeat of Influenza Virus M2 Extracellular Domain with Adjuvant in Balb/c Mice Model, Arak Medical University Journal (AMUJ) 2016; 19(106): 32-43
31. Nahid Borhani Dizaji ,Irene Ricci ,Guido Favia, Claudia Damiani ,Hamid Reza Basseri ,Mansour Heidari, Saied Reza Naddaf and Fatemeh Fotouhi*, Identification

- and molecular analysis of mid-gut mucin gene in *Anopheles stephensi* (Diptera: Culicidae), *International Journal of Tropical Insect Science*, 2016, Vol. 36 (2): 60–69
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 33. Rahpeyma M, Fotouhi F, Makvandi M, Ghadiri A, Samarbaf-Zadeh A*. Crimean-Congo Hemorrhagic Fever Virus Gn Bioinformatic Analysis and Construction of a Recombinant Bacmid in Order to Express Gn by Baculovirus Expression System. *Jundishapur J Microbiol.* 2015 Nov 21;8(11):e25502
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 35. Kianmehr Z, Ardestani SK*, Soleimanjahi H, Fotouhi F. Comparison of Biological and Immunological Characterization of Lipopolysaccharides from *Brucella abortus* RB51 and S19, *Jundishapur J Microbiol.* 2015, 8(11):e24853
 36. Kianmehr Z, Soleimanjahi H*, Ardestani SK, Fotouhi F, Abdoli A. Influence of *Brucella abortus* lipopolysaccharide as an adjuvant on the immunogenicity of HPV-16 L1VLP vaccine in mice. *Med Microbiol Immunol*, 2015 Apr;204(2):205-13
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 38. Somayeh Zamani, Fatemeh Fotouhi Chahouki, Zahra Nourmohammadi, Saeideh Sadeghi Neshat, Vahideh Mazaheri, Ali Torabi, Behrokh Farahmand*. Production of polyclonal antibody against Tehran strain influenza virus (A/H1N1/2009) hemagglutinin conserved domain (HA2). *Tehran University Medical Journal*, August 2015; Vol. 73, No. 5: 535-539.
 39. Fatemeh Fotouhi*, Behrokh Farahmand, Behnaz Heidarchi, Maryam Esghaei, Sima Rafati, Masoumeh Tavassoti Kheiri. In Vitro Evaluation of Influenza M2 and

- Leishmania major HSP70 (221-604) Chimer Protein. JJM 2014 September; 7(9): e11812
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 41. Siavash chalabiani, Fatemeh Fotouhi*, Mmaryam Saleh, Mansoureh Tabatabaian, Behrokh Farahmand, Mohammad ali Alavi Esfahani, Ali Torabi. Prokaryotic production of Influenza Virus M2 protein fused to Leishmania major HSP70 in order to prepare an effective flu vaccine. Journal of Isfahan Medical School. 2014, 32(288): 1-12
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 43. Seyedeh Fahime Mousavi, Fatemeh Fotouhi*, Atena Yousefi, Behrokh Frarahmand, Behnaz Heydarchi, Rezvan Tavakoli, Masoumeh Tavassoti Kheiri. Isolation and full-length characterization of a novel Influenza Virus A hemagglutinin from 2009 pandemic Flu. ISMJ 2014; 17(2): 182-190
 44. Seyedeh Fahime Mousavi, Masoumeh Tavassoti Kheiri, Seyed Masoud Hosseini*, Mojgan Taghizadeh, Fatemeh Fotouhi, Behnaz Heydarchi, Rouzbeh Bashar, Hosna Gomari, Phylogenetic Comparison of Influenza Virus Isolates from Three Medical Centers in Tehran with the Vaccine Strains during 2008-2009, IJMS 2011(36): 173-177.
 45. Mousavi SF, Tavassoti-Kheiri M*, Taghizadeh M, Fotouhi F, Heydarchi B, Tabatabaian M, Partial Quality Control of Inactivated Split Human Influenza Vaccine 2008-9. Iranian Journal of Virology 2012;6(2): 1-7
 46. Abdoli A, Soleimanjahi H*, Fotouhi F, Teimoori A, Pour Beiranvand S, Kianmehr Z. Human Papillomavirus Type16- L1 VLP Production in Insect Cells. Iran J Basic Med Sci. 2013, Aug; 16(8):891-5.
 47. Tavakoli R, Fotouhi F*, Tavassoti-Kheiri M, Farahmand B, Saleh M, Tabatabaeiyan M. Expression of Influenza Heamagglutinin Globular Head in Different Eukaryotic Cells. Iranian Journal of Virology 2012;6(1): 13-17

48. Alavi Esfahani MA, Fotouhi F*, Ghaemi A, Saleh M, Chalabiani S, Farahmand B, TavasotiKheiri M. Expression of M2 Protein of Human Influenza Virus (H1N1) In E. coli. *Journal of Isfahan Medical School*. 2013, 30(216): 1-12
49. Farida Behzadian*, Zahra Goodarzi, Fatemeh Fotouhi Chahooki, Esmaiel Saberfar. Baculoviral co- expression of HA, NA and M1 proteins of highly pathogenic H5N1 influenza virus in insect cells. *Jundishapur Journal of Microbiology*, 2013. (In Press)
50. Rousta F, Fotouhi F*, Ghaemi A, Heidarchi B, Mazaheri V, Fazeli M, Torabi A, Ghaffari M. Effects of Echinacea purpurea extract on immunogenicity of DNA vaccine encoding M2 gene of Influenza virus. *Journal of Gorgan University of Medical Sciences*. 2013, 14(4): 82-88.
51. Najafi S, Behzadian F*, Fotouhi Chahooki F, Fallah Mehrabadi J. Construction of a recombinant bacmid DNA in order to express neuraminidase gene of influenza virus H1N1. *Arak Medical University Journal (AMUJ)* 2012; 15(64): 58-65.
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- model for protein N-glycosylation in recombinant *Escherichia coli*, *Intervirology*, 2012, 55(3): 219-244.
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69. Marzieh Jamalidoost, Hoorieh Soleimanjahi*, Fatemeh Fotouhi and Zahra Meshkat. Amplification and Cloning of Herpes Simplex Virus Type 2 Glycoprotein- G from an Iranian Isolate. *Pakistan Journal of Biological science*. 2007,10(6):955-958.
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