

Curriculum Vitae

Name: Afagh Moattari



ADDRESS: Department of Bacteriology and Virology, Medical School, Shiraz
University of Medical Science, Shiraz, Iran

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E.mail: moattaria@sums.ac.ir

Education:

Ph.D Medical Virology	May 2004
M.Sc Medical Microbiology	July 1984
B.Sc Biology	July 1978

Academic status: professor of virology

Grant Awarded: Six months training at Medical Research Council London
UK.Sponsored by the Iranian Ministry of Health and Education

Publication

Articles:

1. Babaei A, Mojarad S, Pirbonyeh N, Kadivar MR, Sarvari J, **Moattari A**. Prevalence of human metapneumovirus in children with acute respiratory tract infection Shiraz, Iran during 2014-2015. *International Journal of Research in Medical Sciences* 2016 Sep; 4(9):1-5
2. Jalali p, **Moattari A**, Mohammadi A, Ghazanfari N, Pourghanbari G. Melissa officinalis efficacy against human influenza virus (new H1N1) in comparison with oseltamivir. *Asian Pacific Journal of Tropical Disease* 2016; 6(9):714-717.
3. Pirbonyeh N, zardoshtir M, Emami A, Rostampour S, **Moattari A**, Keshavarz A. Emergence of storm resistant mechanisms in *Pseudomonas aeruginosa* isolated from burn patients hospitalized in Ghotbodin Shiraz burn hospital. *Nova j Med Biol Sci*. March 2016; 5:1-7.
4. Pourghanbari G, Nili H, **Moattari A**, Mohammadi A, Iraj A. Antiviral activity of the oseltamivir and *Melissa officinalis* L. essential oil against avian influenza A virus (H9N2). *Virusdisease* 2016 Jun; 27(2):170-8.
5. Khorshidi H, Raofi S, **Moattari A**, Bagheri A, Kalantari MH. In Vitro Evaluation of Bacterial Leakage at Implant-Abutment Connection: An 11-Degree Morse Taper Compared to a Butt Joint Connection. *Int J Biomater*. 2016; 2016:8527849
6. Khodadad N, **Moattari A**, Shamsi Shahr Abadi M, Kadivar MR, Sarvari J, Tavakoli F, Pirbonyeh N, Emami A. Prevalence of Influenza A(H1N1)pdm09 Virus Resistant to Oseltamivir in Shiraz, Iran, During 2012 - 2013. *Jundishapur J Microbiol*. 2015 Aug 29; 8(8).
7. Tavakoli F, **Moattari A**, Shamsi Shahr Abadi M, Kadivar MR, Khodadad N, Pirbonyeh N, Emami A. Antigenic Variation of the Haemagglutinin Gene of the Influenza A (H1N1) pdm09 Virus Circulating in Shiraz, February-April 2013. *Iran J Immunol*. 2015 Sep; 12(3):198-208
8. Zamani K, Emami A, Bazargani A, **Moattari A**. Phenotypic and molecular characterization of CTX-M extended-spectrum beta-lactamase-producing

- Escherichia coli isolates in Shiraz, Iran. *Rev Soc Bras Med Trop.* 2015 Jul-Aug;48(4):479-82.
9. Sarvari J, **Moattari A**, Pirbonyeh N, Moini M, Hosseini SY. The Impact of IFN- γ Gene Polymorphisms on Spontaneous Clearance of HCV Infection in Fars Province, Southern of Iran. *J Clin Lab Anal.* 2015 May 20. doi: 10.1002/jcla.21855
 10. **Moattari A**, Dehghani B, Khodadad N, Tavakoli F. In Silico Functional and Structural Characterization of H1N1 Influenza A Viruses Hemagglutinin, 2010-2013, Shiraz, Iran. *Acta Biotheor.* 2015 May 12
 11. Ghapanchi J, Lavaee F, **Moattari A**, Shakib M. The antibacterial effect of four mouthwashes against streptococcus mutans and escherichia coli. *J Pak Med Assoc.* 2015 Apr;65(4):350-3
 12. Ghapanchi J, Kamali F, **Moattari A**, Poorshahidi S, Shahin E, Rezazadeh F, Khorshidi H, Jamshidi S. In vitro comparison of cytotoxic and antibacterial effects of 16 commercial toothpastes. *J Int Oral Health.* 2015 Mar;7(3):39-43.
 13. Zal F, Mostafavi-Pour Z, **Moattari A**, Sardarian A, Vessal M. Altered expression of alpha 2 beta 1 integrin in kidney fibroblasts: a potential mechanism for CsA-induced nephrotoxicity. *Arch Iran Med.* 2014 Aug;17(8):556-62. doi: 014178/AIM.007.
 14. Ghabanchi J, **Moattari A**, Darafshi R, Andisheh Tadbir A, Khorshidi H, Shakib M. Effects of three Commercial Mouth Rinses on the Cultured Fibroblasts: An in Vitro Study. *J Dent (Shiraz).* 2013 Jun;14(2):64-7
 15. **Moattari A**, Asad AG, Mansouri A, Vaziri MM, Shammami FM. Evaluation of Measles, Rubella, Mumps, Hepatitis B and Varicella Zoster Antibodies in Medical and Dental Students in Shiraz, Iran. *Novelty in Biomedicine.* 2014;1(4):97-100.
 16. **Moattari A**, Emami A, Pirbonyeh N, Yaghoobi R. Detection of Adenovirus Infection Among Children With Acute Respiratory Disease During 2010-2012 in Shiraz, Iran. *Arch Pediatr.* 2014;2(2):e15930.

17. Alizadeh S, Nejatollahi F, **Moattari A**, Moazen B. Specific Single Chain Antibodies (scfvs) Against Influenza A Virus Using Phage Display Technique. *Immunology and Vaccine Technology*. 2014;1(1):1-5.
18. **Sarvari J.**, Norozian H., Fattahi MR, Pirbonyeh N, **Moattari A**. The Role of Interferon Gamma Gene Polymorphism (+ 874A/T,+ 2109A/G, and-183G/T) in Response to Treatment Among Hepatitis C Infected Patients in Fars Province, Southern Iran. *Hepatitis monthly*. 2014;14(1).
19. Varedi M, Shiri H, **Moattari A**, Omrani GH, Amirghofran Z. Hyperthyroid state or in vitro thyroxine treatment modulates TH1/TH2 responses during exposure to HSV-1 antigens. *Journal of immunotoxicology*. 2013;11(2):160-5.
20. Varedi M, **Moattari A**, Amirghofran Z, Karamizadeh Z, Feizi H. Effects of hypo- and hyperthyroid states on herpes simplex virus infectivity in the rat. *Endocrine research*. 2013;39(2):51-6.
21. Honarvar B, Moghadami M, **Moattari A**, Emami A, Odoomi N, Lankarani KB. Seroprevalence of Anti-Rubella and Anti-Measles IgG Antibodies in Pregnant Women in Shiraz, Southern Iran: Outcomes of a Nationwide Measles-Rubella Mass Vaccination Campaign. *PloS one*. 2013;8(1):e55043.
22. Ghabanchi J, **Moattari A**, Tadbir AA, Mardani M, Shakib M. Effect of Three Commercial Mouth Rinses on Epithelial Cells: an in Vitro Study. *Australian Journal of Basic & Applied Sciences*. 2012;6(7).
23. **Moattari A**, Emami A, Moghadami M, Honarvar B. Influenza viral infections among the Iranian Hajj pilgrims returning to Shiraz, Fars province, Iran. *Influenza and other respiratory viruses*. 2012;6(6):e77-e9.
24. Honarvar B, Moghadami M, **Moattari A**, Emami A, Reza Tabatabaee H, Namavar Jahromi B, et al. Titering of 2009 pandemic H1N1 influenza virus hemagglutinin inhibition antibody in nonvaccinated pregnant women in Shiraz, Southern Iran. *Human Vaccines and Immunotherapeutics*. 2012;8(5):604.

25. Ghapanchi J, **Moattari A**, Tadbir AA, Talatof Z, Shahidi SP, Ebrahimi H. The In Vitro Anti-Viral Activity of Honey on Type 1 Herpes Simplex Virus. Australian Journal of Basic & Applied Sciences. 2011;5(12).
26. Ketabchi S, **Moattari A**, Shadram M, Rostami Y. The Anti Influenza Virus Activity of Anchusa Italica. Asian J Exp Biol Sci. 2011;2(4):558-61.
27. **Moattari A**, Aleyasin S, Arabpour M, Sadeghi S. Prevalence of human Metapneumovirus (hMPV) in children with wheezing in Shiraz-Iran. Iranian Journal of Allergy, Asthma and Immunology. 2010;9(4):251-4.
28. Moghadami M, **Moattari A**, Tabatabaee HR, Mirahmadizadeh A, Rezaianzadeh A, Hasanzadeh J, et al. High titers of hemagglutination inhibition antibodies against 2009 H1N1 influenza virus in Southern Iran. Iran J Immunol. 2010;7(1):39-48.
29. **Moattari A**, Ashrafi H, Kadivar M, Kheiri M, Shahidi M, Arabpour M, et al. Antigenic variations of human influenza virus in Shiraz, Iran. Indian journal of medical microbiology. 2010;28(2):114.
30. Moghadami M, Kazeroni PA, Honarvar B, Ebrahimi M, Bakhtiari H, Akbarpour M, **Moattari A**, et al. Influenza A (H1N1) virus pandemic in Fars province: a report from southern Iran, July-December 2009. Iranian Red Crescent Medical Journal. 2010;12(3):231-8.
31. Habibi P, Sadjjadi S, Owji M, **Moattari A**, Sarkari B, Naghibalhosseini F, et al. Characterization of in vitro cultivated amastigote like of Leishmania major: a substitution for in vivo studies. Iranian Journal of Parasitology. 2008;3(1):6-15.
32. Shahidi M, Kheiri MT, Amini-Bavil-Olyae S, Hosseini M, **Moattari A**, Tabatabaeeian M, et al. Molecular and phylogenetic analysis of human influenza virus among Iranian patients in Shiraz, Iran. Journal of medical virology. 2007;79(6):803-10.

33. **Moattari A**, Nekooeian AA, Motamedifard M. The Antiinfluenza Virus Activity of Hydroalcoholic Extract of Olive Leaves. *Iranian journal of pharmaceutical sciences*. 2006;2(3):163-8.
34. Motamedifar M, Nekouieian A, **Moattari A**. The Effect of Hydroalcoholic Extract of Olive Leaves Against Herpes Simplex Virus Type. *Iranian journal of medical sciences (IJMS)*. 2007.
35. **Moattari A**, Kadivar M. Seasonal Outbreak of Influenza A virus Infection in Pediatric Age Groups During 2004-2005 in South of Iran. *Iranian journal of medical sciences(IJMS)*. 2006;31(3).
36. Motamedifar M, **Moattari A**. Effectes of Sodium Valproate on The Replication of Herpes Simplex Virus Type 1: an In Vitro Study. *Iranian journal of medical sciences(IJMS)*. 2006.
37. **Moattari A**, Kabiri M, Motamedifar M, Shahrabadi M, Akbari S, Iranpour N. Sodium valproate-induced potentiation of antiherpetic effect of acyclovir. *Iranian journal of medical sciences (IJMS)*. 2002.
38. Ardehali S, **Moattari A**, Hatam G, Hosseini S, Sharifi I. Characterization of "Leishmania" isolated in Iran: 1. Serotyping with species specific monoclonal antibodies. *Acta tropica*. 2000;75(3):301-7.
39. Ardehali S, **Moattari A**. The use of monoclonal antibodies for characterization of leishmania speicies isolated from patients with cutaneous leishmaniasis in Fars province. *Iran journal of the faculty of medicine* 2000;23(4):233-8.
40. Kabiri M, **Moattari A**. The rubella immunosurveillance of Iranian females: an indication of the emergence of rubella outbreak in Shiraz, Iran. *Iranian journal of medical sciences*. 1993;18:134-7.

41. Kabiri M, **Moattari A**. Detection of antibody to toxoplasma Gondii by immune adherence hemagglutination ,an increase sensitivity by lysate antigen. *Iranian journal of medical science*. 1990;15(1):6-12
42. Alleyassin F, **Moattari A**, Zare F. The prevalence of Toxoplasma gondii antibodies in pregnant women in Shiraz. *Iranian J. Med Sci*. 1990;1(15):17-3.
43. Kabiri M, **Moattari A**, Aborzi A. The immuno adherence hemagglutination. A new micro-immunoassay for the sero diagnosis of visceral leishmaniasis. *Iranian journal of Medical Science*. 1989;14:51-8.
44. **Moattari A**, Pakzad P. Serological study of the immunity to rubella infection among the adult girls ,pregnant and non-pregnant women resident in Ahvaz. *Science medical journal*. 1987;5(6):53-61.

Participation in international congresses

1. Nejatollahi f, Alizadeh s, **Moattari A**. A specific neutralizing single chain antibody against conserved sequence of hemagglutinin for prophylaxis and treatment of influenza infection. 1th international congress on prevention strategies for health care –associated infections. April 14-16, 2015, Mashhad Iran.
2. **Moattari A**, Emami A., prevalence of pandemic influenza virus infection in pediatric age group in southern Iran. 7th Asian congress of pediatric infectious Diseases, October 12-15, 2014 , Beijing, China
3. **Moattari A**, Emami a., Pirbonyeh N., the Prevalence of Human Bocavirus and Adenovirus in Hospitalized children in Shiraz –Iran. 7th Asian congress of pediatric infectious diseases, October 12-15, 2014 , Beijing China.
4. **Moattari A**, Aleyasin S, Emami A. The prevalence of Human Metapneumovirus and Respiratory Syncytial virus in young children with acute respiratory infection

- in shiraz Iran, 14th Asia pacific congress of pediatrics & 4th Asia pacific Congress of Nursing, September 8-12,2012.
5. Sarvari J., **Moattari A.**, Pirboonyeh N,Norouzian H,Fattahi MR.No association of IFN - γ (A+874T) gene polymorphisms with natural history of HCV infection. 6th Iranian congress of virology, 17-19 October 2012.
 6. Sarvari J., **Moattari A.**, Pirboonyeh N., Fattahi MR., Possible role of A+2106G IFN - γ gene polymorphisms on natural history of HCV infection in Fars Province, Southern Iran, 6th Iranian congress of virology, 17-19 October 2012.
 7. Sarvari J., **Moattari A.**, Pyrboonyeh N., Fattahi M.R. No Association Between A+2109G IFN- γ Gen Polymorphisms with Response to Antiviral Therapy in Patients infected with HCV in Fars Province ,Southern Iran,11th International Congress of Immunology & Allergy ,Tehran Iran ,26-29 April 2012.
 8. Norouzian H., **Moattari A.**, Sarvari J., Fattahi M.R., Correlation of IFN- γ (A=874T) Gen polymorphisms with response to antiviral therapy in patients infected with HCV In Fars Province, 4th International Tehran Hepatitis Congress,Tehran Iran 26 nov.2011_
 9. **Moattari A.**, Ashrafi H., Varedi M.,(2009) antigenic variation of human influenza virus in Shiraz,Iran,2005-2007 in *Tropical Medicine and International Health Verona Italy* September 6-10 .
 10. **Moattari A.**..Aleyasin S.,Arabpour M.,Ghanbari A.(2009) prevalence of human metapneumovirus in children with asthma and wheezing in *Tropical Medicine and International Health Verona, Italy* September 6-10.

11. Ashrafi H., **Moattari A.**, Kheiri M .,(2009) Determination of genetic variation of human influenza virus during seasonal outbreak 2005-2006 in Shiraz , 5th Iranian congress of virology Tehran –Iran May 2-4 .
12. Mostafavi –pour Z., Zal F, **Moattari A.**,(2008) Expression of integrin in fibroblasts derived from CsA-induced nephrotoxicity in rats with or without combination therapy by vitamin E+quercetin Congress of the Croatian society of biochemical and molecular biology Osijek-croatia September 17-20.
13. Faizee H., **Moattari A.**, Varedi M.,(2007)The effect of serum levels of thyroid hormones on the susceptibility to herpes simplex virus (HSV) infection in rat the 18th Iranian congress of physiology & pharmacology, Mashhad –Iran August 26-30.
14. **Moattari A.**, Nekueian A. (2006) “The anti-Influenza Virus activity of olive leaf extract”The 3rd Iranian Congress of virology 21-23 Jan.Tehran Iran.
15. **Moattari A.**, Kabiri M,Iranpour N.(2005).Nuclear Magnetic Resonance spectrum of Acyclovir and Sodium Valproate” interaction.Safety Pharmacology,Manheim Germany, Sep 27.
16. **Moattari A.**, (1999).Characterization of leishmania isolated in Iran with monoclonal antibodies ,2th Iranian congress of parasitology , Tehran Iran, Aug 12-15.
17. **Mattari A.** , Ardehali S.(1997)., Use of monoclonal antibodies for characterization of leishmania species isolated from patient with cutaneous leishmania in Fars province Iran ,10th international congress of geographic medicine & 6th Iranian congress of infectious and tropical disease,Shiraz Iran , Nov10-13 .

18. Ardehali S, **Moattari A.** (1995), Characterization of leishmania organisms using available standard monoclonal antibodies ,8th international congress of geographic and 3 rd Iranian congress of immunology and allergy , Shiraz Iran, May 6-9.
19. Habib-Agahi,M, **Moattari,A.**, Arjomandzadeh,S., Basiri ,E., Ghaderi,A.,(1995),Is there a correlation between anti – desmosomal and anti –IgG autoantibodies in patients with pemphigus?,8th international congress of geographic and 3rd Iranian congress of immunology ,Shiraz Iran.May 6-9.
20. Emad ,M., Ghaderi ,A.,Noorani,M., **Moattari,A.**, Indirect immunofluorescent in patiente with pemphigus vulgaris, International congress of geographic medicine ,Shiraz Iran ,May 16-19 .
21. Aleyassin , F. **Moattari,A.** Kabiri,M.(1994),Determinationof false- positive rheumatoid arthritis test in patientswith anti –nuclear or anti –toxoplasma IgM antibody in Shiraz.7th international congress of geographic medicine, Shiraz Iran May ,16-19.
22. Ghaderi A, Habibagahi M, Ghohestani R ,Amirghofran Z, **Moattari A.** (1993), Molecular weight determination of the pemphigus vulgaris antigens by immunobloting analysis ,6th international congress of geographic medicine Shiraz university of medical science, Shiraz Iran, May 3-6.
23. **Moattari A,** Kabiri M.(1991),Detection of antibody to toxoplasma Gondii by immune Adherence hemagglutination an increase sensitivity by lysate antigen ,4th international congress of geographic medicine ,Shiraz Iran May.6-9.

Professional activites:

Professor, of virology Department of Bacteriology and Virology, Medical school, Shiraz University of Medical Sciences. Shiraz Iran.

April 2004-present Member of WHO committee for Influenza virus surveillance

Research assistant in Bacteriology and Virology Department.

Reviewing paper of some Journals

Representative post graduate students Shiraz Medical School Sciences in the thesis presentations.

Attending workshop, Medical ethics, and Advisory of Medical Students of Shiraz University of Medical Sciences.

GENE RECORDS IN GENE BANK (NCBI)

Human metapneumovirus strain G/Iran/28/2015/A attachment surface glycoprotein (G) gene, partial cds

691 bp linear cRNA

Accession:

KU176099.1

GI:

1032965958

Human metapneumovirus strain G/Iran/45/2015/A attachment surface glycoprotein (G) gene, partial cds

692 bp linear cRNA

Accession:

KU176100.1

GI:

1032965960

Human metapneumovirus strain G/Iran/54/2015/A attachment surface glycoprotein (G) gene, complete cds

691 bp linear cRNA

Accession:

KU176101.1

GI:

1032965962

Human metapneumovirus strain G/Iran/63/2015/A attachment surface glycoprotein (G) gene, complete cds

691 bp linear cRNA

Accession:

KU176102.1

GI:

1032965964

Human metapneumovirus strain G/Iran/87/2015/A attachment surface glycoprotein (G) gene, complete cds

691 bp linear cRNA

Accession:

KU176103.1

GI:

1032965966

Human metapneumovirus strain G/Iran/102/2015/A attachment surface glycoprotein (G) gene, complete cds

691 bp linear cRNA

Accession:

KU176104.1

GI:

1032965968

UNVERIFIED: Human metapneumovirus strain G/Iran/104/2015/B attachment surface glycoprotein-like (G) gene, complete sequence

727 bp linear cRNA

Accession:

KU176105.1

GI:

1032965970

Human metapneumovirus strain G/Iran/110/2015/B attachment surface glycoprotein (G) gene, complete cds

730 bp linear cRNA

Accession:

KU176106.1

GI:

1032965971

Human respiratory syncytial virus isolate B/Shiraz/11/2016 attachment glycoprotein (G) gene, complete cds

888 bp linear cRNA

Accession:

KU716107.1

GI:

1006591413

Human respiratory syncytial virus isolate A/Shiraz/12/2016 attachment glycoprotein (G) gene, complete cds

894 bp linear cRNA

Accession:

KU716108.1

GI:

1006591415

Human respiratory syncytial virus isolate A/Shiraz/19/2016 attachment glycoprotein (G) gene, complete cds

894 bp linear cRNA

Accession:

KU716109.1

GI:

1006591417

Human respiratory syncytial virus isolate A/Shiraz/40/2016 attachment glycoprotein (G) gene, complete cds

897 bp linear cRNA

Accession:

KU716110.1

GI:

1006591419

Human respiratory syncytial virus isolate B/Shiraz/52/2016 attachment glycoprotein (G) gene, complete cds

954 bp linear cRNA

Accession:

KU716111.1

GI:

1006591421

Human respiratory syncytial virus isolate B/Shiraz/64/2016 attachment glycoprotein (G) gene, complete cds

954 bp linear cRNA

Accession:

KU716112.1

GI:

1006591423

Human respiratory syncytial virus isolate B/Shiraz/84/2016 attachment glycoprotein (G) gene, complete cds

954 bp linear cRNA

Accession:

KU716113.1

GI:

1006591425

Human respiratory syncytial virus isolate B/Shiraz/100/2016 attachment glycoprotein (G) gene, complete cds

954 bp linear cRNA

Accession:

KU716114.1

GI:

1006591427

Human respiratory syncytial virus isolate A/Shiraz/120/2016 attachment glycoprotein (G) gene, complete cds

894 bp linear cRNA

Accession:

KU716115.1

GI:

1006591429

Influenza A virus (A/Iran/1417/2016(H1N1)) segment 4 hemagglutinin (HA) gene, complete cds

1,701 bp linear cRNA

Accession:

KU720436.1

GI:

1002822740

Influenza A virus (A/Iran/279/2016(H1N1)) segment 4 hemagglutinin (HA) gene, complete cds

1,701 bp linear cRNA

Accession:

KU720435.1

GI:

1002822738

GenBankFASTAGraphics

Select item 1002822736 20.

Influenza A virus (A/Iran/211/2016(H1N1)) segment 4 hemagglutinin (HA) gene, complete cds

1,701 bp linear cRNA

Accession:

KU720434.1

GI:

1002822736

Human metapneumovirus strain G/Iran/28/2015/A attachment surface glycoprotein (G) gene, partial cds

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Human metapneumovirus strain G/Iran/110/2015/B attachment surface glycoprotein (G) gene, complete cds

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KU176106.1

GI:

1032965971

Human respiratory syncytial virus isolate B/Shiraz/11/2016 attachment glycoprotein (G) gene, complete cds

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Human respiratory syncytial virus isolate B/Shiraz/100/2016 attachment glycoprotein (G) gene, complete cds

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Accession:

KU716114.1

GI:

1006591427

Human respiratory syncytial virus isolate A/Shiraz/120/2016 attachment glycoprotein (G) gene, complete cds

894 bp linear cRNA

Accession:

KU716115.1

GI:

1006591429

Influenza A virus (A/Iran/1417/2016(H1N1)) segment 4 hemagglutinin (HA) gene, complete cds

1,701 bp linear cRNA

Accession:

KU720436.1

GI:

1002822740

Influenza A virus (A/Iran/279/2016(H1N1)) segment 4 hemagglutinin (HA) gene, complete cds

1,701 bp linear cRNA

Accession:

KU720435.1

GI:

1002822738

Influenza A virus (A/Iran/211/2016(H1N1)) segment 4 hemagglutinin (HA) gene, complete cds

1,701 bp linear cRNA

Accession:

KU720434.1

GI:

1002822736

Influenza A virus (A/Iran/140/2014(H3N2)) segment 7 matrix protein 2 (M2) and matrix protein 1 (M1) genes, complete cds

993 bp linear cRNA

Accession:

KP997228.1

GI:

808180063

Influenza A virus (A/Iran/227/2014(H3N2)) segment 7 matrix protein 2 (M2) and matrix protein 1 (M1) genes, complete cds

994 bp linear cRNA

Accession:

KP997229.1

GI:

808180066

Influenza A virus (A/Iran/407/2014(H3N2)) segment 7 matrix protein 2 (M2) and matrix protein 1 (M1) genes, complete cds

994 bp linear cRNA

Accession:

KP997230.1

GI:

808180069

Influenza A virus (A/Iran/116/2014(H3N2)) segment 7 matrix protein 2 (M2) and matrix protein 1 (M1) genes, complete cds

995 bp linear cRNA

Accession:

KP997231.1

GI:

808180072

Influenza A virus (A/Iran/12/2014(H1N1)) segment 7 matrix protein 2 (M2) and matrix protein 1 (M1) genes, complete cds

1,027 bp linear cRNA

Accession:

KP843616.1

GI:

801492859

Influenza A virus (A/Iran/18/2014(H1N1)) segment 7 matrix protein 2 (M2) and matrix protein 1 (M1) genes, complete cds

984 bp linear cRNA

Accession:

KP881886.1

GI:

794567608

Influenza A virus (A/Iran/20/2014(H1N1)) segment 7 matrix protein 2 (M2) and matrix protein 1 (M1) genes, complete cds

984 bp linear cRNA

Accession:

KP881887.1

GI:

794567613

Influenza A virus (A/Iran/21/2014(H1N1)) segment 7 matrix protein 2 (M2) and matrix protein 1 (M1) genes, complete cds

984 bp linear cRNA

Accession:

KP881888.1

GI:

794567620

Influenza A virus (A/Iran/25/2014(H1N1)) segment 7 matrix protein 2 (M2) and matrix protein 1 (M1) genes, complete cds

984 bp linear cRNA

Accession:

KP890037.1

GI:

794567639

BK polyomavirus isolate SUMS-YE.10 5' UTR

270 bp linear DNA

Accession:

KM387442.1

GI:

697740409

BK polyomavirus isolate SUMS-YE.11 5' UTR

267 bp linear DNA

Accession:

KM387443.1

GI:

697740414

Influenza A virus (A/Shiraz/125/2013(H1N1)) segment 4 hemagglutinin (HA) gene, complete cds

1,701 bp linear cRNA

Accession:

KM047671.2

GI:

666667845

Influenza A virus (A/Shiraz/104/2013(H1N1)) segment 4 hemagglutinin (HA) gene, complete cds

1,701 bp linear cRNA

Accession:

KM013712.1

GI:

662495911

Influenza A virus (A/Shiraz/93/2013(H1N1)) segment 4 hemagglutinin (HA) gene, complete cds

1,701 bp linear cRNA

Accession:

KM013711.1

GI:

662495909

Influenza A virus (A/Shiraz/87/2013(H1N1)) segment 4 hemagglutinin (HA) gene, complete cds

1,701 bp linear cRNA

Accession:

KM013710.1

GI:

662495907

Influenza A virus (A/Shiraz/34/2013(H1N1)) segment 4 hemagglutinin (HA) gene, complete cds

1,701 bp linear cRNA

Accession:

KM013709.1

GI:

662495905

Influenza A virus (A/Shiraz/5/2013(H1N1)) segment 4 hemagglutinin (HA) gene, complete cds

1,701 bp linear cRNA

Accession:

KM013708.1

GI:

662495903

Influenza A virus (A/Shiraz/1/2013(H1N1)) segment 4 hemagglutinin (HA) gene, complete cds

1,701 bp linear cRNA

Accession:

KM013707.1

GI:

662495901

Influenza A virus (A/Shiraz/38/2013(H1N1)) segment 4 hemagglutinin (HA) gene, complete cds

1,701 bp linear cRNA

Accession:

KJ781217.1

GI:

641738706

Influenza A virus (A/Shiraz/43/2013(H1N1)) segment 4 hemagglutinin (HA) gene, complete cds

1,701 bp linear cRNA

Accession:

KJ781218.1

GI:

641738708

Influenza A virus (A/Shiraz/3/2013(H1N1)) segment 6 neuraminidase (NA) gene, complete cds

1,410 bp linear cRNA

Accession:

KJ789325.1

GI:

641738836

Influenza A virus (A/Shiraz/7/2013(H1N1)) segment 6 neuraminidase (NA) gene, complete cds

1,410 bp linear cRNA

Accession:

KJ789326.1

GI:

641738838

Influenza A virus (A/Shiraz/87/2013(H1N1)) segment 6 neuraminidase (NA) gene, complete cds

1,410 bp linear cRNA

Accession:

KJ789327.1

GI:

641738840

Influenza A virus (A/Shiraz/93/2013(H1N1)) segment 6 neuraminidase (NA) gene, complete cds

1,410 bp linear cRNA

Accession:

KJ789328.1

GI:

641738842

Influenza A virus (A/Shiraz/94/2013(H1N1)) segment 6 neuraminidase (NA) gene, complete cds

1,410 bp linear cRNA

Accession:

KJ789329.1

GI:

641738844

Influenza A virus (A/Shiraz/104/2013(H1N1)) segment 6 neuraminidase (NA) gene, complete cds

1,410 bp linear cRNA

Accession:

KJ789330.1

GI:

641738846

Influenza A virus (A/Shiraz/1/2013(H1N1)) segment 6 neuraminidase (NA) gene, complete cds

1,410 bp linear cRNA

Accession:

KJ755333.1

GI:

641454241

Influenza A virus (A/Shiraz/5/2013(H1N1)) segment 6 neuraminidase (NA) gene, complete cds

1,410 bp linear cRNA

Accession:

KJ755334.1

GI:

641454243

Influenza A virus (A/Shiraz/43/2013(H1N1)) segment 6 neuraminidase (NA) gene, complete cds

1,410 bp linear cRNA

Accession:

KJ755335.1

GI:

641454245

Influenza A virus (A/Shiraz/125/2013(H1N1)) segment 6 neuraminidase (NA) gene, complete cds

1,410 bp linear cRNA

Accession:

KJ755336.1

GI:

641454247

BK polyomavirus isolate SUMS-YE.1 5' UTR

268 bp linear DNA

Accession:

KJ591009.1

GI:

619330595

BK polyomavirus isolate SUMS-YE.2 5' UTR

268 bp linear DNA

Accession:

KJ591010.1

GI:

619330596

BK polyomavirus isolate SUMS-YE.3 5' UTR

267 bp linear DNA

Accession:

KJ591011.1

GI:

619330597

Escherichia coli strain SMS2012-210 beta-lactamase CTXM-15 gene, partial cds

704 bp linear DNA

Accession:

KC465232.1

GI:

448967478

Escherichia coli strain SMS2012-211 beta-lactamase CTXM-15 gene, partial cds

704 bp linear DNA

Accession:

KC465233.1

GI:

448967480

Escherichia coli strain SMS2012-212 beta-lactamase CTXM-15 gene, partial cds

704 bp linear DNA

Accession:

KC465234.1

GI:

448967482

Human bocavirus isolate IRC 2019 nonfunctional VP1 gene, complete sequence

2,016 bp linear DNA

Accession:

JX944710.1

GI:

428673776

Influenza A virus (A/Shiraz/37/2008(H1N1)) segment 4 hemagglutinin (HA) gene, partial cds

506 bp linear cRNA

Accession:

HQ189502.1

GI:

313585107

Influenza A virus (A/Shiraz/38/2008(H1N1)) segment 4 hemagglutinin (HA) gene, partial cds

502 bp linear cRNA

Accession:

HQ189503.1

GI:

313585109

Influenza A virus (A/Shiraz/39/2008(H1N1)) segment 4 hemagglutinin (HA) gene, partial cds

449 bp linear cRNA

Accession:

HQ189504.1

GI:

313585111

Influenza A virus (A/Shiraz/42/2008(H1N1)) segment 4 hemagglutinin (HA) gene, partial cds

502 bp linear cRNA

Accession:

HQ189505.1

GI:

313585113

Influenza A virus (A/Shiraz/46/2008(H1N1)) segment 4 hemagglutinin (HA) gene, partial cds

499 bp linear cRNA

Accession:

HQ189506.1

GI:

313585115

Influenza A virus (A/Shiraz/47/2008(H1N1)) segment 4 hemagglutinin-like (HA) gene, partial sequence

462 bp linear cRNA

Accession:

HQ189507.1

GI:

313585117

Influenza A virus (A/Shiraz/28/2008(H3N2)) segment 4 hemagglutinin (HA) gene, partial cds

248 bp linear cRNA

Accession:

HQ189508.1

GI:

313585118

Influenza A virus (A/Shiraz/36/2008(H3N2)) segment 4 hemagglutinin (HA) gene, partial cds

251 bp linear cRNA

Accession:

HQ189509.1

GI:

313585120

Influenza A virus (A/Shiraz/53/2008(H3N2)) segment 4 hemagglutinin (HA) gene, partial cds

252 bp linear cRNA

Accession:

HQ189510.1

GI:

313585122

Influenza A virus (A/Shiraz/54/2008(H3N2)) segment 4 hemagglutinin (HA) gene, partial cds

250 bp linear cRNA

Accession:

HQ189511.1

GI:

313585124

Influenza A virus (A/Shiraz/56/2008(H3N2)) segment 4 hemagglutinin (HA) gene, partial cds

251 bp linear cRNA

Accession:

HQ189512.1

GI:

313585126

Influenza A virus (A/Shiraz/58/2008(H3N2)) segment 4 hemagglutinin (HA) gene, partial cds

294 bp linear cRNA

Accession:

HQ189513.1

GI:

313585128

Influenza A virus (A/Shiraz/14/2010(H1N1)) segment 1 polymerase PB2 (PB2) gene, partial cds

1,641 bp linear cRNA

Accession:

HQ606469.1

GI:

312191405

Influenza A virus (A/Shiraz/14/2010(H1N1)) segment 2 polymerase PB1 (PB1) gene, partial cds; and nonfunctional PB1-F2 protein (PB1-F2) gene, complete sequence

2,271 bp linear cRNA

Accession:

HQ606470.1

GI:

312191407

Influenza A virus (A/Shiraz/14/2010(H1N1)) segment 8 nuclear export protein (NEP) and nonstructural protein 1 (NS1) genes, complete cds

878 bp linear cRNA

Accession:

HQ606471.1

GI:

312191409

Influenza A virus (A/Shiraz/14/2010(H1N1)) segment 5 nucleocapsid protein (NP) gene, partial cds

1,496 bp linear cRNA

Accession:

HQ606472.1

GI:

312191412

Influenza A virus (A/Shiraz/14/2010(H1N1)) segment 6 neuraminidase (NA) gene, complete cds

1,410 bp linear cRNA

Accession:

HQ606473.1

GI:

312191414

Influenza A virus (A/Shiraz/14/2010(H1N1)) segment 7 matrix protein 2 (M2) and matrix protein 1 (M1) genes, complete cds

984 bp linear cRNA

Accession:

HQ606474.1

GI:

312191416

Influenza A virus (A/Shiraz/1/2010(H1N1)) segment 4 hemagglutinin (HA) gene, complete cds

1,701 bp linear cRNA

Accession:

HQ419004.1

GI:

309401674

Influenza A virus (A/Shiraz/2/2010(H1N1)) segment 4 hemagglutinin (HA) gene, complete cds

1,701 bp linear cRNA

Accession:

HQ419005.1

GI:

309401676

Influenza A virus (A/Shiraz/3/2010(H1N1)) segment 4 hemagglutinin (HA) gene, complete cds

1,701 bp linear cRNA

Accession:

HQ419006.1

GI:

309401678

Influenza A virus (A/Shiraz/4/2010(H1N1)) segment 4 hemagglutinin (HA) gene, complete cds

1,701 bp linear cRNA

Accession:

HQ419007.1

GI:

309401680

Influenza A virus (A/Shiraz/5/2010(H1N1)) segment 4 hemagglutinin (HA) gene, complete cds

1,701 bp linear cRNA

Accession:

HQ419008.1

GI:

309401682

Influenza A virus (A/Shiraz/6/2010(H1N1)) segment 4 hemagglutinin (HA) gene, complete cds

1,701 bp linear cRNA

Accession:

HQ419009.1

GI:

309401684

Influenza A virus (A/Shiraz/7/2010(H1N1)) segment 4 hemagglutinin (HA) gene, complete cds

1,701 bp linear cRNA

Accession:

HQ419010.1

GI:

309401686

Influenza A virus (A/Shiraz/8/2010(H1N1)) segment 4 hemagglutinin (HA) gene, complete cds

1,701 bp linear cRNA

Accession:

HQ419011.1

GI:

309401688

Influenza A virus (A/Shiraz/m/2006(H1N1)) hemagglutinin gene, partial cds

534 bp linear cRNA

Accession:

EU430036.1

GI:

167859914

Influenza A virus (A/Shiraz/32/2006(H1N1)) hemagglutinin gene, partial cds

535 bp linear cRNA

Accession:

EU430037.1

GI:

167859916

Influenza A virus (A/Shiraz/27/2006(H1N1)) hemagglutinin gene, partial cds

535 bp linear cRNA

Accession:

EU430038.1

GI:

167859918

Influenza A virus (A/Shiraz/33/2006(H1N1)) hemagglutinin gene, partial cds

535 bp linear cRNA

Accession:

EU430039.1

GI:

167859920

Influenza A virus (A/Shiraz/13/2006(H3N2)) hemagglutinin gene, partial cds

294 bp linear cRNA

Accession:

EU430040.1

GI:

167859922

Influenza A virus (A/Shiraz/54/2006(H3N2)) hemagglutinin gene, partial cds

294 bp linear cRNA

Accession:

EU430041.1

GI:

167859924

Influenza A virus (A/Shiraz/37/2006(H3N2)) nonfunctional hemagglutinin gene, partial sequence

293 bp linear cRNA

Accession:

EU430042.1

GI:

167859926

Influenza A virus (A/Shiraz/29/2006(H3N2)) hemagglutinin gene, partial cds

294 bp linear cRNA

Accession:

EU430043.1

GI:

167859927

Influenza A virus (A/Shiraz/05/2006(H3N2)) hemagglutinin gene, partial cds

294 bp linear cRNA

Accession:

EU430044.1

GI:

167859929

Influenza A virus (A/Shiraz/09/2006(H3N2)) hemagglutinin gene, partial cds

294 bp linear cRNA

Accession:

EU430045.1

GI:

167859931

Influenza A virus (A/Shiraz/06/2006(H3N2)) hemagglutinin gene, partial cds

294 bp linear cRNA

Accession:

EU430046.1

GI:

167859933

Influenza A virus (A/Shiraz/02/2006(H3N2)) hemagglutinin gene, partial cds

294 bp linear cRNA

Accession:

EU430047.1

GI:

167859935

Influenza A virus (A/Shiraz/7/2005(H1N1)) hemagglutinin (HA) gene, partial cds

535 bp linear cRNA

Accession:

DQ973299.1

GI:

116007032

Influenza A virus (A/shiraz/12/2005(H1N1)) hemagglutinin (HA) gene, partial cds

535 bp linear cRNA

Accession:

DQ973300.1

GI:

116007034

Influenza A virus (A/Shiraz/11/2005(H1N1)) hemagglutinin (HA) gene, partial cds

535 bp linear cRNA

Accession:

DQ973301.1
GI:
116007036

Influenza A virus (A/Shiraz/15/2005(H1N1)) hemagglutinin (HA) gene, partial cds

535 bp linear cRNA

Accession:
DQ973302.1

GI:
116007038

Influenza A virus (A/Shiraz/17/2005(H1N1)) hemagglutinin (HA) gene, partial cds

535 bp linear cRNA

Accession:
DQ973303.1

GI:
116007040

Influenza A virus (A/Shiraz/19/2005(H1N1)) hemagglutinin (HA) gene, partial cds

534 bp linear cRNA

Accession:
DQ973304.1

GI:
116007042

Influenza A virus (A/Shiraz/9/2005(H3N2)) hemagglutinin (HA) gene, partial cds

294 bp linear cRNA

Accession:
DQ973305.1

GI:
116007044

Influenza A virus (A/Shiraz/22/2005(H1N1)) hemagglutinin (HA) gene, partial cds

534 bp linear cRNA

Accession:
DQ981739.1

GI:
114149045

Influenza A virus (A/Shiraz/20/2005(H3N2)) hemagglutinin (HA) gene, partial cds

293 bp linear cRNA

Accession:
DQ981740.1

GI:

114149047

Influenza A virus (A/Shiraz/8/2005(H3N2)) hemagglutinin (HA) gene, partial cds

293 bp linear cRNA

Accession:

DQ981741.1

GI:

114149049

Influenza A virus (A/Shiraz/3/2005(H3N2)) hemagglutinin (HA) gene, partial cds

294 bp linear cRNA

Accession:

DQ981742.1

GI:

114149051

Research Experience:

- Immunofluorescence Microscopy

- Immunoperoxidase

- ELISA

- Cell culture techniques

- Viral Identification techniques; Neutralization; Hemagglutination and Hemagglutinationinhibition test..

:

Molecular Biology Techniques:

- RT-PCR

- Real Time PCR

- Transfection

- Transformation

- Cloning

- Sequencing

- Western Blotting

- In-situ hybridization

Electron microscopy:

Research Interest:

- Influenza virus

- Herpes simplex virus

-Antiviral drug

-vaccine

Teaching Experience:

- Teaching Medical Virology and Microbiology To:

- Medical, Dental, pharmacy, Nursing and Midwifery. Students.

- Residents of Dentistry

- M.Sc students of Virology ,Microbiology and genetic

-Ph.D students of Molecular medicine