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## Abolfazl Fateh, Ph.D, Medical Virology

### Education

*Jan 2011 – Feb 2015* **Tehran University of Medical Sciences**, PhD, Virology, Tehran, Iran

*Sep 2002 – May 2005* **Ahvaz Jondishapour University of Medical Sciences**, MSc, Virology,  
Ahvaz, Iran

*Sep 1997 – May 2000* **Islamic Azad University, Qom**, BSc, Microbiology, Qom, Iran

### Research Experience

“Non-tuberculosis mycobacteria, Nocarida, HCV, SNP detection, viral infection in cancer”

### Skills & Activities

*Skills* Routine and Molecular Diagnosis of Mycobacteria, according to international methods such as C.D.C and W.H.O procedure, Molecular method and advance Cell Culture procedure for Virology, Drug Resistance, Clinical Infectious Diseases, Viral Infection.

*Interests* “Non-tuberculosis mycobacteria, Nocarida, HCV”

### Awards & Grants

**1-Evaluation of Gut Microbiota Pattern and Related Metabolites in Type 1 & 2 Diabetic Patients :**  
National Institute for Medical Research Development, IR-IRAN.

**2- Comparative Study of Cell Signaling Induced by Commensal and Pathogenic Bacteria Outer Membrane Vesicles:** Pasteur Institute of Iran

**3-Introduction of Addictobiotic: Comparative Study of Gut Microbiota Pattern between Addicted People to Morphine and Non-addicted People and the Choice of Suitable Probiotic in the Treatment of Related Neurological Disorders:** Microbiology Reseach Center, Pasteur Institute of Iran.

#### 4-The Effect of Probiotic in Microbial Colonization of Laryngotracheal Tube in COPD.

Microbiology Reseach Center, Pasteur Institute of Iran.

#### 5-The Comparative Study of Gut Microbiota Pattern in Lung Cancer: Microbiology Reseach Center,

Pasteur Institute of Iran.

### Journal Publications

Mansour Kargarpour Kamakoli, Hamid Reza Sadegh, Ghazaleh Farmanfarmaei, Morteza Masoumi, **Abolfazl Fateh**, Gholamreza Javadi, Fatemeh Rahimi Jamnani, Farzam Vaziri, Seyed Davar Siadat: *Evaluation of the impact of polyclonal infection and heteroresistance on treatment of tuberculosis patients.* Scientific Reports 02/2017; 7., DOI:10.1038/srep41410

Ghazaleh Farmanfarmaei, Mansour Kargarpour Kamakoli, Hamid Reza Sadegh, Morteza Masoumi, Farid Abdolrahimi, **Abolfazl Fateh**, Nayereh Ebrahimzadeh, Gholamreza Javadi, Fatemeh Rahimi Jamnani, Farzam Vaziri, Seyed Davar Siadat: *Bias in detection of Mycobacterium tuberculosis polyclonal infection: Use clinical samples or cultures?.* Molecular and Cellular Probes 01/2017;, DOI:10.1016/j.mcp.2017.01.002

Shirin Sam Daliri, Hossein Samadi Kafil, Mohammad Aghazadeh, **Abolfazl Fateh**, Mehdi Yousefi, Seyed Davar Siadat: *Extraction and biological evaluation of the membrane vesicles of Mycobacterium tuberculosis (CRBIP7.11) as an adjuvant and vaccine candidate.* Jundishapur Journal of Microbiology 12/2016; 2017.

Hamidreza Sadegh, Mansour Kargarpour Kamakoli, Ghazaleh Farmanfarmaei, Morteza Masoumi, Farid Abdolrahimi, **Abolfazl Fateh**, Nayereh Ebrahimzadeh, Fatemeh Rahimi Jamnani, Farzam Vaziri, Seyed Davar Siadat: *Pros and cons of direct genotyping on tuberculosis clinical samples.* Microbial Pathogenesis 12/2016;, DOI:10.1016/j.micpath.2016.12.025

Parvaneh Sedighimehr, Shiva Irani, Fatemeh Sakhaee, Farzam Vaziri, Mohammadreza Aghasadeghi, Seyed Mehdi Sadat, Fatemeh Rahimi Jamnani, **Abolfazl Fateh**, Seyed Davar Siadat: *IL28B rs12980275 and HLA rs4273729 genotypes as a powerful predictor factor for rapid, early, and sustained virologic response in patients with chronic hepatitis C.* Archives of Virology 10/2016;, DOI:10.1007/s00705-016-3095-1

Shamsi Yari, Alireza Hadizadeh Tasbiti, Mostafa Ghanei, Mohammad Ali Shokrgozar, **Abolfazl Fateh**, Reza Mahdian, Fatemeh Yari, Ahmadreza Bahrmand: *Proteomic analysis of drug-resistant Mycobacterium tuberculosis by one-dimensional gel electrophoresis and charge chromatography.* Archives of Microbiology 07/2016;, DOI:10.1007/s00203-016-1267-8

Alireza Hadizadeh Tasbiti, Shamsi Yari, Mostafa Ghanei, Mohammad Ali Shokrgozar, **Abolfazl Fateh**, Ahmadreza Bahrmand: *Low Level of Extensively Drug-resistant Tuberculosis Among MDR-TB Isolates and its Relationship to Risk Factors: Surveillance in Tehran-Iran, 2006-2014.* 07/2016;, DOI:10.1016/j.phrp.2016.06.003

Milad Shahini Shams Abadi, Seyed Davar Siadat, Farzam Vaziri, Mehdi Davari, **Abolfazl Fateh**, Shahin Pourazar, Farid Abdolrahimi, Morteza Ghazanfari: *Distribution and Diversity of hmw1A Among Invasive Nontypeable Haemophilus influenzae Isolates in Iran.* 04/2016; 8(2).

Ali Nour-Neamatollahi, Seyed Davar Siadat, Shamsi Yari, Alireza Hadizadeh Tasbiti, Nayereh Ebrahimzadeh, Farzam Vaziri, **Abolfazl Fateh**, Morteza Ghazanfari, Farid Abdolrahimi, Shahin Pourazar, Ahmadreza Bahrmand: *A new diagnostic tool for rapid and accurate detection of Mycobacterium tuberculosis*. Saudi Journal of Biological Sciences 03/2016;, DOI:10.1016/j.sjbs.2016.01.026

Sharereh Khanipour, Nayereh Ebrahimzadeh, Morteza Masoumi, Fatemeh Sakhaei, Farhad Alinezhad, Elham Safarpour, **Abolfazl Fateh**, Ali Nour Nematollahi, Alireza Hadizadeh Tasbiti, Mohammad Reza Zolfaghari, Ahmad Reza Bahrmand, Mehdi Mirsaedi, Fatemeh Rahimi Jamnani, Farzam Vaziri, Seyed Davar Siadat: *Haarlem 3 is the predominant genotype family in multidrug-resistant and extensively drug-resistant Mycobacterium tuberculosis in the capital of Iran: A 5-year survey*. Journal of Global Antimicrobial Resistance 03/2016; 5., DOI:10.1016/j.jgar.2016.01.007

Elahe Sadat Hajimiri, Morteza Masoomi, Nayereh Ebrahimzadeh, **Abolfazl Fateh**, Alireza Hadizadeh Tasbiti, Fatemeh Rahimi Jamnani, Ahmad Reza Bahrmand, Mehdi Mirsaedi, Farzam Vaziri, Seyed Davar Siadat: *High prevalence of Mycobacterium tuberculosis mixed infection in the capital of moderate tuberculosis incidence country*. Microbial Pathogenesis 03/2016; 93., DOI:10.1016/j.micpath.2016.02.015

Ali Nour Neamatollahie, Nayereh Ebrahimzadeh, Seyed Davar Siadat, Farzam Vaziri, Mona Eslami, Abbas Akhavan Sepahi, Sharereh Khanipour, Morteza Masoumi, Fatemeh Sakhaei, Morteza Ghazanfari Jajin, Ahmadreza Bahrmand, **Abolfazl Fateh**: *Distribution of Non-tuberculosis Mycobacteria strains from suspected tuberculosis patients by heat shock protein 65 PCR-RFLP*. Saudi Journal of Biological Sciences 02/2016;, DOI:10.1016/j.sjbs.2016.02.001

Shamsi Yari, Alireza R Hadizadeh Tasbiti, Mostafa Ghanei, Mohammad Ali Shokrgozar, **Abolfazl Fateh**, Fatemeh Yari, Ahmadreza Bahrmand: *Modified TB rapid test by proteinase K for rapid diagnosis of pleural tuberculosis*. APMIS 12/2015; 124(3)., DOI:10.1111/apm.12490

**Abolfazl Fateh**, Mohammadreza Aghasadeghi, Seyed Davar Siadat, Farzam Vaziri, Farzin Sadeghi, Roohollah Fateh, Hossein Keyvani, Alireza Hadizadeh Tasbiti, Shamsi Yari, Angila Ataei-Pirkooh, Seyed Hamidreza Monavari: *Comparison of three different methods for the detection of IL28 rs12979860 polymorphisms as treatment predictor factor for the hepatitis C virus*. 11/2015; 7(2)., DOI:10.1016/j.phrp.2015.11.004

Somayeh Bagherzadeh Khodashahri, Seyed Davar Siadat, Mohammad Rahbar, Meghdad Abdollahpour-Alitappeh, Farzam Vaziri, Mrjan Rahnamaye-Farzami, Mona Mohammadzadeh, Mehdi Davari, **Abolfazl Fateh**, Morteza Masoumi: *Genotyping of Haemophilus influenzae type b strains and their incidence in the clinical samples isolated from Iranian patients*. Iranian Journal of Microbiology 06/2015; 7(3).

**Abolfazl Fateh**, Mohammad Reza Aghasadeghi, Hossein Keyvani, Hamid Reza Mollaie, Shamsi Yari, Ali Reza Hadizadeh Tasbiti, Morteza Ghazanfari, Seyed Hamid Reza Monavari: *High Resolution Melting Curve Assay for Detecting rs12979860 IL28B Polymorphisms Involved in Response of Iranian Patients to Chronic Hepatitis C Treatment*. Asian Pacific journal of cancer prevention: APJCP 03/2015; 16(5)., DOI:10.7314/APJCP.2015.16.5.1873

Farzin Sadeghi, Mostafa Salehi-Vaziri, Ahad Alizadeh, Seyed Mohammad Ghodsi, Farah Bokharaei-Salim, **Abolfazl Fateh**, Seyed Hamidreza Monavari, Hossein Keyvani: *Detection of Merkel cell polyomavirus*

large T-antigen sequences in human central nervous system tumors: Merkel Cell Polyomavirus Sequences in CNS Tumors. *Journal of Medical Virology* 03/2015; 87(7)., DOI:10.1002/jmv.24178

A.R. Hadizadeh Tasbiti, S.H. Yari, M. Ghanei, M.A. Shokrgozar, **A. Fateh**, S.D. Siadat, F. Vaziri, A.R. Bahrmand: *Proteins purified from Mycobacterium tuberculosis MDR and Susceptible clinical isolates: Identification by proteomics approach*. *International Journal of Mycobacteriology* 03/2015; 4., DOI:10.1016/j.ijmyco.2014.10.039

Seyed Davar Siadat, Farzam Vaziri, Mamak Eftekhary, Maryam Karbasian, Arfa Moshiri, Mohammad Reza Aghasadeghi, Mehdi Shafiee Ardestani, Meghdad Abdollahpour Alitappeh, Amin Arsang, **Abolfazl Fateh**, Shahin Najari Peerayeh, Ahmad Reza Bahrmand: *Preparation and Evaluation of a New Lipopolysaccharide-based Conjugate as a Vaccine Candidate for Brucellosis*. 12/2014; 6(1)., DOI:10.1016/j.phrp.2014.10.012

Alireza Hadizadeh Tasbiti, Ahmadreza Bahrmand, Mohammad Ali Shokrgozar, Mostafa Ghanei, **Abolfazl Fateh**, Ali Karimi, Shamsi Yari: *Erratum (vol 28, pg 169, 2014)*. *Journal of Clinical Laboratory Analysis* 05/2014; 28(3)., DOI:10.1002/jcla.21761

Alireza Hadizadeh Tasbiti, Ahmadreza Bahrmand, Mohammad Ali Shokrgozar, Mostafa Ghanaie, **Abolfazl Fateh**, Ali Karimi, Shamsi Yari: *Evaluation of Antigen Detection Test (Chromatographic Immunoassay): Potential to Replace the Antibody Assay Using Purified 45-kDa Protein for Rapid Diagnosis of Tuberculosis*. *Journal of Clinical Laboratory Analysis* 01/2014; 28(1)., DOI:10.1002/jcla.21646

M. Fatahi-Bafghi, S. Habibnia, P. Heidarieh, **A. Fateh**, M. Rasouli-Nasab, S.S. Eshraghi: *Molecular techniques in Nocardia identification*. *Journal of Isfahan Medical School* 01/2014; 32(281).

E. Jabbarzadeh, M. Saifi, AR Bahrmand, A. Karimi, S. Pourazar, **A. Fateh**, M. Masoumi, E. Vahidi: *272 Identification of Non Tuberculous Mycobacteria Isolates using PCR-Restriction Fragment Length Polymorphism Analysis of the HSP65 Gene in Iran*. *Archives of Disease in Childhood* 10/2012; 97(Suppl 2)., DOI:10.1136/archdischild-2012-302724.0272

M Saifi, E Jabbarzadeh, A.R. Bahrmand, A Karimi, S Pourazar, **A Fateh**, M Masoumi, E Vahidi: *HSP65-PRA identification of non-tuberculosis mycobacteria from 4892 samples suspicious for mycobacterial infections*. *Clinical Microbiology and Infection* 08/2012; 19(8)., DOI:10.1111/j.1469-0691.2012.04005.x

Sh Yari, A. Hadizadeh Tasbiti, **A Fateh**, A Karimi, F Yari, F Sakhai, M Ghazanfari, A Bahrmand: *Purification of modified mycobacterial A60 antigen by affinity chromatography and its use for rapid diagnostic tuberculosis infection*. *Journal of microbiological methods* 08/2011; 87(2)., DOI:10.1016/j.mimet.2011.08.007

Andrew R Miller, Gregory L Davis, Z Maria Oden, Mohamad Reza Razavi, **Abolfazl Fateh**, Morteza Ghazanfari, Farid Abdolrahimi, Shahin Poorazar, Fatemeh Sakhaie, Randall J Olsen, Ahmad Reza Bahrmand, Mark C Pierce, Edward A Graviss, Rebecca Richards-Kortum: *Portable, Battery-Operated, Low-Cost, Bright Field and Fluorescence Microscope*. *PLoS ONE* 08/2010; 5(8)., DOI:10.1371/journal.pone.0011890

Ehsan Aryan, Manoochehr Makvandi, Ahmad Farajzadeh, Kris Huygen, Pablo Bifani, Seyed-Latif Mousavi, **Abolfazl Fateh**, Abbass Jelodar, Mohammad-Mehdi Gouya, Marta Romano: *A novel and more sensitive loop-mediated Isothermal amplification assay targeting IS6110 for detection of Mycobacterium tuberculosis complex*. *Microbiological Research* 07/2009; 165(3)., DOI:10.1016/j.micres.2009.05.001

Saeed Zaker Bostanabad, **Abolfazl Fateh**, Khaled Seyedi, Farid Abdolrahimi, Ali Karimi, Alireza Hadizadeh Tasbiti, Nayereh Ebrahimzadeh, Morteza Ghazanfari, Leonid Petrovich Titov: *Frequency and Molecular Characterization of Rifampicin-Resistance in rpoB Region of Multiple Drug Resistance (MDR) Isolates from Tuberculosis Patients in Southern Endemic Region of Iran*. Iranian Journal of Biotechnology 10/2007; 5(4).

#### **Research projects**

- Identification of different nontuberculosis mycobacteria species in suspected tuberculosis patients by multi locus sequence analysis (MLSA) from 2009 to 2014.

#### **Master thesis supervision**

- Identification of different nontuberculosis mycobacteria species in suspected tuberculosis patients by PCR-RFLP and 16srRNA sequencing.
- Identification of different nontuberculosis mycobacteria species in suspected tuberculosis patients by PCR-RFLP and ITS-sequencing.
- Identification of different nontuberculosis mycobacteria species in suspected tuberculosis patients by PCR-RFLP and rpoB sequencing.
- Evaluation of Merkel cell carcinoma (MCPyV) in patients with human lung cancer and head and neck cancer.