

## **Abdolrazagh Hashemi-Shahraki, Ph.D, in Medical Bacteriology**

Ph.D, in Medical Bacteriology

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### **Education history**

- **M.Sc.:** Medical Microbiology, Ahvaz Jundishapur University of Medical Sciences, Ahvaz, Iran. 2005
- **PhD:** Medical Bacteriology, Isfahan University of Medical Sciences, Isfahan, Iran, 2005-2011.
- **PhD thesis:** Molecular characterization of Nontuberculous mycobacteria (NTM), and *Nocardia* spp.

### **Employment history**

- 2011-2014: Assistant professor, Health Research Institute, Infectious and Tropical Diseases Research Center, Ahvaz Jundishapur University of Medical Sciences, Ahvaz, Iran
- 2014- up to now: Assistant professor, Department of Epidemiology, Pasteur Institute of Iran, Tehran, Iran

### **Main responsibility**

**2011-2014:**

- Head of Laboratory of Infectious and Tropical Diseases Research Center, Ahvaz Jundishapur University of Medical Sciences

- Processing of clinical samples for isolation, characterization, antimicrobial susceptibility testing of *M. tuberculosis* and other pathogenic mycobacteria
- Quality control and biosafety in BSL2 Laboratory
- Develop standards and SOPs in clinical laboratory
- Training of postgraduate students and laboratory staffs

#### **2014- up to now:**

- Establishing national reference laboratory of Plague, Tularemia and Q Fever, Pasteur Institute of Iran, Tehran, Iran
- Head of national reference laboratory of Plague, Tularemia and Q Fever, Pasteur Institute of Iran, Tehran, Iran
- Processing of clinical samples for monitoring and detection of Plague, Tularemia and Q Fever
- Quality control and biosafety in BSL2 plus Laboratory
- Develop standards and SOPs in BSL2 plus Laboratory
- Training of postgraduate students and laboratory staffs

#### **Research Focus:**

- **Emerging and reemerging infectious disease**
  - a. Nontuberculous mycobacteria as emerging pathogens
  - b. Multidrug resistance *M. tuberculosis*
  - c. Monitoring of Plague, Tularemia and Q Fever in public and in wildlife.
- **Molecular epidemiology of Emerging and reemerging infectious disease**

#### **Professional experience**

- Characterization based on phenotypic techniques
- Susceptibility testing (proportional method and broth microdilution test).
- Chemotaxonomy identification of Nontuberculous mycobacteria.
- Molecular identification
- Phylogenetic analysis

- Riboprinting, PFGE typing, RAPD typing, ERIC typing and sequenced based typing (Multilocus sequence typing or MLST) for investigation of molecular epidemiology
- Serological and Molecular monitoring of Plague, Tularemia and Q Fever

## Publications

- Heidarieh P, Shojaei H, Feizabadi MM, Havaei A, **Hashemi Shahraki A** and Daei-Naser A. Molecular Identification and Conventional Susceptibility Testing of Clinical *Mycobacterium fortuitum* Isolates from Iran. Iran J Basic Med Sci.2010 13:210-215.
- Shojaei H, **Hashemi Shahraki A**, Heidarieh P, Feizabadi MM and Daei-Naser. A Neglected infections; Conventional and Molecular Characterization 1 of Iranian Clinical Non- Tuberculous Mycobacteria. Jpn. J. Infect. Dis, vol. 64 no. 3, 2011.
- Shojaei H, **Hashemi Shahraki A**, Heidarieh P, Rahimi A, Ataei B and Daei-Naser. Molecular microbiological investigation of *Mycobacterium bovis* BCG post-vaccination infection in Iranian patients. Int J Tuberc Lung Dis. 2011 Nov;15(11):1497-503, i.
- Heidarieh P, Shojaei H, **Hashemi Shahraki A**, Feizabadi MM, and Daei-Naser A First report of isolation and characterization of *Mycobacterium elephantis* from bronchial lavage of a patient in Asia, Iran. JRSM Short Reports, 2010;00:0. DOI 10.1258/shorts.2010.010103.
- Shojaei H, **Hashemi Shahraki A**, Heidarieh P, Ataei B and Daei-Naser. Isolation of a recently described species of *Mycobacterium conceptionense* from patients with various clinical profiles. JRSM Short Reports, 2010;00:0. DOI 10.1258/shorts.2010.01011.
- Shojaei H, **Hashemi Shahraki A**, Heidarieh P, Ataei B and Daei-Naser. First Report on Isolation and Molecular Characterization of Clinical *Mycobacterium setense* Isolates in Asia., Jpn. J. Infect. Dis., 2011, 64, 234-236,
- Shojaei H, **Hashemi Shahraki A**, Heidarieh P, Naser AD. *Mycobacterium novocastrense*-associated Pulmonary and Wound Infections. Emerg Infect Dis. 2011 Mar;17(3):550-1.
- Shojaei H, **Hashemi Shahraki A**, Heidarieh P, Eshraghi S, Khosravi AR, Daei Naser A. Clinical isolation of *Nocardia cyriacigeorgica* from patients with various clinical manifestations, the first report from Iran. Nippon Ishinkin Gakkai Zasshi. 2011;52(1):39-43.
- Shojaei H, **Hashemi Shahraki A**, Heidarieh P, Naser AD. Molecular identification of rare clinical mycobacteria by application of 16S-23S spacer region sequencing. Iran J Basic Med Sci.2011, Vol. 15, No. 1, Jan-Feb 2012, 661-668
- Shojaei H, **Hashemi Shahraki A**, Heidarieh P, Naser AD. Chronic Pelvic Pain due to a recently described species of *Mycobacterium parascrofulaceum* in an Iranian patient; the first report from Asia. Braz J Infect Dis. 2011 Apr;15(2):186-7.
- Pourahmad F, **Hashemi Shahraki A**, Heidarieh H, Khosravi A, and Shojaei H. First Report on the Isolation of *Mycobacterium europaeum* from an Immunocompromised Patient in Iran. Japanes Journal of Infectious Diseaes. 2012,(Accepted).
- Zaker Bostanabad S, Salehian P, **Hashemi Shahraki A**. Isolation of *Mycobacterium Chelonae* in the Sputum and Cervical Lymph Nodes of Patient with Metastatic Breast Cancer TB. Mycobacterial Diseases, 2012, 2:1

- **Hashemi Shahraki A**, Shojaei H, Heidarieh P, Aslani MM, Naser AD. Genetic diversity of Iranian clinical isolates of *Mycobacterium tuberculosis*. *New Microbiol.* 2012 Jan;35(1):61-5. Epub 2012 Jan 10.
- Shojaei H, Daley C, Gitti Z, **Hashemi Shahraki A**, Heidarieh P, Moore ER, Daei Naser A, Russo C, van Ingen J, Tortoli E. *Mycobacterium iranicum* sp. nov., a rapidly-growing scotochromogenic species isolated from clinical specimens on three different continents. *Int J Syst Evol Microbiol.* 2012 Jul 27
- **Hashemi Shahraki A**, Boustanabad SZ, Heidarieh P, Titov LP, Khosravi AD, Sheikhi N. Species Spectrum of Non-tuberculous Mycobacteria in different regions of Iran, identification of clinical isolates by multi-locus sequence analysis. *Infect Genet Evol.* 2013 Sep 24;20C:312-324. doi: 10.1016/j.meegid.2013.08.027.
- **Hashemi Shahraki A**, Heidarieh P, Darban D. M. simiae, *Mycobacterium simiae*, a possible emerging pathogen in Iran. *Japanes Journal of Infectious Diseases.* 2013, 66(6):475-479
- **Hashemi Shahraki A**, Heidarieh P, Bostanabad SZ, et al. Heterogeneity of Iranian clinical isolates of *Mycobacterium fortuitum* Iranian Journal of Microbiology 6 (1), 1-7.
- Doosti Irani A, **Hashemi Shahraki A**, Ghaderi E, Nasehi M, Mostafavi E. Lack of optimum practice among health care workers regarding tuberculosis in Iran: A knowledge, attitude, and practice study. *Am J Infect Control.* 2015 Feb 25. pii: S0196-6553(15)00038-3. doi: 10.1016/j.ajic.2015.01.020.
- **Hashemi Shahraki A**, Çavuşoğlu C, Borroni E, Heidarieh P, Koksalan OK, Cabibbe AM, Hashemzadeh M, Mariottini A, Mostafavi E, Cittaro D, Feizabadi MM, Lazarevic D, Yaghmaei F, Molinari GL, Camaggi A, Tortoli E. *Mycobacterium celeriflavum* sp. nov., a rapidly growing scotochromogenic bacterium isolated from clinical specimens. *Int J Syst Evol Microbiol.* 2015 Feb;65(Pt 2):510-5. doi: 10.1099/ijs.0.064832-0. Epub 2014 Nov 11.
- **Hashemi Shahraki A**, Heidarieh P, Azarpira S, Shojaei H, Hashemzadeh M, Tortoli E. *Mycobacterium iranicum* infection in HIV-infected patient, Iran. *Emerg Infect Dis.* 2013 Oct;19(10):1696-7. doi: 10.3201/eid1910.130658.
- **Hashemi Shahraki A**, Heidarieh P, Hashemzadeh M, Khandan S, Bostanabad SZ, Feizabadi MM, Khosravi AD, Mirsaedi M. "Multidrug-resistant tuberculosis" may be nontuberculous mycobacteria. *Eur J Intern Med.* 2015 May;26(4):279-84
- Kazemian H, Haeili M, Kardan Yamchi J, Rezaei F, Gizaw Feyisa S, Zahednamazi F, Mohajeri P, Zaker Bostanabd S, **Hashemi Shahraki A**, Imani Fooladi AA, Feizabadi MM. Antimycobacterial activity of linezolid against multidrug-resistant and extensively drug-resistant strains of *Mycobacterium tuberculosis* in Iran. *Int J Antimicrob Agents.* 2015 Feb 26. pii: S0924-8579(15)00074-6.
- Doosti Irani A, **Hashemi Shahraki A**, Ghaderi E, Nasehi M, Mostafavi E. Lack of optimum practice among health care workers regarding tuberculosis in Iran: A knowledge, attitude, and practice study. *Am J Infect Control.* 2015 May 1;43(5):e7-e12.
- Haeili M1, Darban-Sarokhalil D, Fooladi AA, Javadpour S, **Hashemi Shahraki A**, Siavoshi F, FeizabadiMM. Spoligotyping and drug resistance patterns of *Mycobacterium tuberculosis* isolates from five provinces of Iran. *Microbiologyopen.* 2013 Dec;2(6):988-96.