

# Curriculum Vitae



## Roohollah Fateh, PhD

Department of Microbiology & Immunology  
Faculty of Medicine  
Qom University of Medical Sciences, Qom, Iran

### 1- Personal Data

- **First name:** Roohollah
- **Last name:** Fateh
- **Nationality:** Iranian
- **Place of birth:** Qom
- **Date of birth:** 5 May 1980
- **Marital status:** Married
- **Native language:** Persian
- **E-mail:** [rfateh59@gmail.com](mailto:rfateh59@gmail.com)
- **Academic E-mail:** [rfateh@muq.ac.ir](mailto:rfateh@muq.ac.ir)
- **Affiliation:** Faculty of Medicine, Qom University of Medical Sciences, Qom, Iran

### 2- Educational information

- **PhD of Medical Mycology (Molecular Mycology) (2010-2015).**

School of Public Health & Institute of Public Health Research, Department of Parasitology and Mycology, Tehran University of Medical Sciences, Tehran, Iran.

- **PhD dissertation:** "Identification of ACO1 gene in *Candida krusei* and its genomic expression before and after treatment with azolic antifungal drugs by semi quantitative RT-PCR method, also inhibition of this gene and evaluation of its consequent effect on drug resistance of fungi using RNAi technology" (Supervisors: Prof. Farideh Zaini; Dr. Mansour Heidari).
- **MSc degree in Medical Mycology** (2006-2009).  
Faculty of Medicine, Department of Parasitology and Mycology, Iran University of Medical Sciences, Tehran, Iran.
- **MSc dissertation:** "Evaluation of reaction of *Aspergillus* spp., *Penicillium*, *Alternaria*, *Microsporum canis* and *Tricophyton mentagrophytes* to shallot extract in vitro in comparison with Miconazole." (Supervisors: Dr. Mohammad Javad Nasiri Kashani, Prof. Mehraban Falahati).
- **BSc degree in Microbiology** (1999-2003).  
Islamic Azad University, Qom.

### **3- Honors and Awards**

- First Rank in PhD Exam of Ministry of Health in 2009.
- Appreciation from the Minister of Health for First Rank in PhD Exam in 2011.

### **4- Teaching Assignment**

- **Medical Mycology** for MD Programme, School of Medicine, Qom University of Medical Sciences. From 2011- to date.
- **Medical Mycology** for BSc Programme, School of Allied Health Sciences, Qom University of Medical Sciences. From 2014- to date.
- **Medical Microbiology (Mycology Section)** for BSc Programme, School of Public Health, Qom University of Medical Sciences. From 2015- to date.
- **Medical Mycology** for MD Programme, School of Dentistry, Qom University of Medical Sciences. From 2015- to date.

- **Pathobiology (Mycology section)** for BSc Programme, School of Public Health, Qom University of Medical Sciences. From 2015- to date.

## **5- Research Publications**

### ➤ **Books**

- Translation of Mycology section of the book "**principles and Practice of Infectious Diseases by Mandell et al**". Published by Anvare-Danesh Publication, 2015.

Mehdi Ghorbanian, Ensiieh Lotfali, Mitra Farnoodian, **Roohollah Fateh**.

- Compilation of the Book "**Medical Mycology**". Published by Khosravi Publication, 2013.

Ali Kanani, **Roohollah Fateh**, Amir Seyed Ali Mahbod, Mehraban Falahati, Mohammad Reza Sarvi.

### ➤ **Papers**

- **English Journal publications**

- "**Identification of azole resistance markers in clinical isolates of *Candida tropicalis* using cDNA-AFLP method**" *J Clin Lab Anal*, 2015; 1-7.

Ali Kanani, Farideh Zaini, Parivash Kordbacheh, Mehraban Falahati, Sassan Rezaie, Roshanak Daie, Shirin Farahyar, Mahin Safara, **Roohollah Fateh**, Ebrahim Faghihloo, Azam Fattahi, Mansour Heidari.

- "**Prevalence of *Candida albicans* and *Trichomonas vaginalis* Infections in Women**" *Life Science Journal*, 2013; 10 (5s).

Mehraban Falahati, Lame Akhlaghi, Maryam Abianeh, Mehrdad Asadi, Sanam Nami, **Roohollah Fateh**.

- "**Identification of *Prototheca zopfii* from Bovine Mastitis**" *Iranian J Publ Health*, 2012; 41: 84-88.

F Zaini, A Kanani, M Falahati, **R Fateh**, M Salimi-Asl, N Saemi, Sh Farahyar, A Kargar Kheirabad, M Nazeri.

- "**Anti-Candidal Effect of Shallot against Chronic Candidiasis**" *IJPT*, 2011; 10: 49-51.

Mehraban Falahati, **Roohollah Fateh**, Somaieeh Sharifinia.

- **"Synthesis and Antifungal Activity of 1-[(2-Benzyloxy)Phenyl]-2-(Azol-1-yl)Ethanone Derivatives: Exploring the Scaffold Flexibility"** *Chem Biol Drug Des*, 2011; 78: 979–987.

Saeed Emami, Motahare Kazemi-Najafabadi, Soughra Pashangzadeh, Alireza Foroumadi, Mohammad Ali Faramarzi, Nasrin Samadi, Mehraban Falahati, **Roohollah Fateh** and Mahtab Ashrafi-Khozani.

- **"In vitro antifungal activity of *Allium hirtifolium* in comparison with the miconazole"** *MJIRI*, 2010; 24: 17-22.

**Roohollah Fateh**, Mohammad Javad Nasiri Kashani, Manijeh Motevallian, Mehraban Falahati, Amir Yazdanparast.

- **"Flow cytometry susceptibility testing for conventional antifungal drugs and Comparison with the NCCLS Broth Macrodilution Test"** *DARU*, 2009; 17 (2): 94-98.

Najafzadeh M.J, Falahati M, Pooshanga Bagheri K, Fata A, **Fateh R**.

- **"Study on prevalence of TTV among cirrhotic patients due to Hepatitis B&C in Ahwaz university Hospitals during 2004-2005"** *Iranian J Virol*, 2009;3(1): 29-33.

Fateh A, Makvandi M, Samarbafzade A.R, Mollaie H.R, Jahanbakhsh F, **Fateh R**.

- **"Evaluation of mRNA expression levels of *cyp51A* and *mdr1*, candidate genes for voriconazole resistance in *Aspergillus flavus*"** *JJM*, 2015; accepted for publication.

Azam Fattahi, Farideh Zaini, Parivash Kordbacheh, Sassan Rezaie, Mahin Safara, Shirin Farahyar, **Roohollah Fateh**, Ali Kanani, Mansour Heidari.

- **"Identification and sequencing of *Candida krusei* aconitate hydratase gene using Rapid Amplification of cDNA Ends (RACE) method and phylogenetic analysis"** *JJM*, 2015; Accepted for publication.

**Roohollah Fateh**, Farideh Zaini, Parivash Kordbacheh, Mehraban Falahati, Sassan Rezaie, Roshanak Daie, Nahid Borhani, Mahin Safara, Azam Fattahi, Ali Kanani, Shirin Farahyar, Mansour Heidari.

- **"Molecular identification and antifungal susceptibility of Candida species isolated from patients with vulvovaginitis in Tehran, Iran"** International Microbiology, 2015; Submitted.
- **"Detection of Six Important Virulence Genes in Pseudomonas aeruginosa Isolated from Iranian Patients with Urinary Tract Infection and Evaluation of Antimicrobial Susceptibility Profile"** Indian Journal of Microbiology, 2015; submitted
- ***National Journal Publications***
- **"Anticandidal activities of alcoholic and aqueous extract of shallot against chronic candidiasis agents"** *Razi Journal of Medical Sciences*, 2012; 19: 22-28.  
Mehraban Falahati, **Roohollah Fateh**, Somaieh Sharifinia, Ali Kanani, Ahmadreza Memar, Fattaneh Hashem Dabbaghian.
- **"Antifungal effects of Peganum harmala alkaloid extract"** *Qom Uni Med Sci J*, 2011; 5: 14-17.  
Mehraban Falahati, **Roohollah Fateh**, Jalal Kiani.
- **"Antifungal effects of alcoholic and aqueous shallot extracts and miconazole in vitro"** *Qom Uni Med Sci J*, 2009; 3: 13-18.  
Mohammad Javad Nasiri Kashani, Mehraban Falahati, Manijeh Motevallian, Seyed Amir Yazdanparast, **Roohollah Fateh**.
- **"Epidemiological pattern of cutaneous fungal infections in patients referred to Razi hospital in Tehran city in 2014"** *Qom Uni Med Sci J*, 2015; Accepted for publication.  
Mehraban Falahati, Abouzar Nasiri, Farideh Zaini, Shirin Farahyar, Roohollah Fateh, Seyed Mohammad Riahi, Mohammad Khalifeh Gholi.

## **6- Seminar Presentations**

### **➤ Oral presentation**

- **"In vitro susceptibility of aflatoxigenic and non-aflatoxigenic *Aspergillus flavus* strains to conventional antifungals"**

2<sup>nd</sup> Iranian Congress on Medical Mycology. 11-14 February 2013, Ahwaz, Iran.

- **"Study on prevalence of *TTV* among cirrhotic patients due to hepatitis B&C in Ahwaz University hospitals during 2007-2008"**

3<sup>rd</sup> Eurasia Congress of Infectious Diseases, 1-4 October 2009, Baku, Azerbaijan.

### ➤ ***Poster presentation***

- **"Differential diagnosis between Psoriasis and Tinea versicolor"**

7<sup>th</sup> International Congress of Laboratory and Clinic (Infectious Diseases) and 1<sup>st</sup> Conference of Clinical Virology, 12-14 February 2015, Tehran, Iran.

- **"*Peganum harmala*, a plant with antifungal activity"**

2<sup>nd</sup> Iranian Congress on Medical Mycology. 11-14 February 2013, Ahwaz, Iran.

- **"Anticandidal effect of shallot (*Allium hirtifolium*) against chronic candidiasis"**

2<sup>nd</sup> Iranian Congress on Medical Mycology. 11-14 February 2013, Ahwaz, Iran.

- **"In vitro antifungal activity of *Allium hirtifolium* in comparison with miconazole"**

1<sup>st</sup> Iranian Conference on Medical Mycology, 3-5 May 2011, Sari, Iran.

- **"Determination of frequency of *Prototheca zopfii* genotype in bovine with and without mastitis in Isfahan"**

1<sup>st</sup> Iranian Conference on Medical Mycology, 3-5 May 2011, Sari, Iran.

- **"Comparison of population of *Propionibacterium* and *micrococcaceae* in the skin of patients with tinea versicolor and healthy controls"**

The 16<sup>th</sup> Iranian Congress on Infectious Disease and Tropical Medicine, 15-19 December 2007, Tehran, Iran.

- **"Study of UTI prevalence and common species in patients referring to Modarres and Firoozgar hospitals in Tehran in 2006"**

9<sup>th</sup> Iranian Congress of Microbiology, 4-6 March 2007, Kerman, Iran.

- **"Dust mites living in human lungs-the cause of asthma?"**

The 3<sup>rd</sup> International Congress on Pulmonary Disease, Intensive Care and Tuberculosis, 15-18 October 2007, Tehran, Iran.

➤ **"Provide polyclonal antiserum against extract of *Candida albicans*"**

The 8<sup>th</sup> Iranian Congress of Immunology and Allergy, 16-18 May 2006, Tehran, Iran.

## **7- Contribution to Projects**

➤ ***As Principal Investigator***

➤ **"Evaluation of antifungal effects of novel indanonic spiroisoxasoline derivatives"**

Microbiology Lab of Faculty of Medicine, Qom University of Medical Sciences, Qom, Iran, 2015.

➤ ***As Co-worker***

➤ **"In vitro evaluation of anticandidal effects of alcoholic and aqueous extracts of shallot against *Candida* species isolated from patients with chronic candidiasis "**

Research Institute for Islamic and Complementary Medicine, Iran University of Medical Sciences, Tehran, Iran.

➤ **"Identification of ACO1 gene in *Candida krusei* and its genomic expression before and after treatment with azolic antifungal drugs by semi quantitative RT-PCR method, also inhibition of this gene and evaluation of its consequent effect on drug resistance of fungi using RNAi technology"**

Mycoserology and Genetic Labs, Tehran University of Medical Sciences, Tehran, Iran.

➤ **"Anticandidal activity of fluconazole conjugated gold nanoparticles against fluconazole resistant strains of *Candida albicans* isolated from patients with chronic vulvovaginitis"**

Microbioloy Lab, Islamic Azad University, Qom, Iran.

- **"Determination of Mycoplasma genitalium and Ureaplasma urealyticum prevalence in pregnant women using Duplex PCR"**

Research Center of Pediatric Infectious Diseases, Iran University of Medical Sciences, Tehran, Iran.

## **8- Training Courses**

- Workshop on **"How to Publish a Scientific Journal Articles"** Conducted by Springer and Ednaz, November 2011.

Tehran University of Medical Sciences, Tehran, Iran.

- 22<sup>th</sup> Workshop on **"Education Strategies & Teaching Methods"**, 13-14 July 2011.

School of Public Health & Institute of Public Health Research, Tehran University of Medical Sciences, Tehran, Iran.

- Attending in **"the 7<sup>th</sup> National and 2<sup>nd</sup> Regional Congress of Parasitology and Parasitic Diseases in Iran"**, October 2010.

Tehran University of Medical Sciences, Tehran, Iran.

- Workshop on **"Love and Health"**, 10 May 2015.

Faculty of Medicine and religion, Qom University of Medical Sciences, Qom, Iran.

- Workshop on **"Introduction of Promotion Bylaw of Faculty Members"**, 27 April 2015.

Education Development Center (EDC), Qom University of Medical Sciences, Qom, Iran.

- Workshop on **"Introduction of Employment Bylaw of Faculty Members"**, 11 Jun 2015.

Education Development Center (EDC), Qom University of Medical Sciences, Qom, Iran.

- Workshop on **"Strategies for Promotion of Praying in University"**, 18 May 2015.

Representative of the Supreme Leader, Qom University of Medical Sciences, Qom, Iran.



- Workshop on "**Increasing the knowledge and Empowerment of Faculty Members plan in Field of Religious Knowledge (Knowledge Project)**", 17-24 July 2015.  
Representative of the Supreme Leader, Qom University of Medical Sciences, Mashhad, Iran.
- Workshop on "**Review of the Health System Rules**", 19 August 2015.

## **9- Skills**

### ➤ **Computer Skills**

- Microsoft **Word**
- Microsoft **Powerpoint**
- Microsoft **Excel**
- **SPSS** statistical Software
- **EndNote** Software
- **Primer3** Software to Design Primers
- **ClustalW2** software for Multiple Sequence Alignment
- **EMBOSS Transeq** Software for Translation of Nucleic Acid Sequence to Their Corresponding peptide Sequences.
- **NEBcutter** Software for DNA Sequence Analysis to Find Restriction Enzymes Sites.
- **Geneious R7** Software for Phylogenetic Analysis
- **IDT** Software to Design siRNA (Sense and Antisense strands)

### ➤ **Laboratory Skills**

- **Professional Diagnosis of Fungal Infections**
  - ✓ Appropriate Sample Preparation
  - ✓ Microscopy Direct Examination
  - ✓ Performing Cultures for Definitive Diagnosis
- **Antifungal Susceptibility Testings**
  - ✓ Preparing Stock Solution
  - ✓ Preparing Diluted Antifungal Agents

- ✓ Inoculum Preparation
- ✓ Broth Microdilution Method
- ✓ Broth Macrodilution Method
- ✓ Disk Diffusion
- **Plant Extraction Technique**
  - ✓ Soxhlet Extraction Method
  - ✓ Maceration Method
  - ✓ Boiling Method
- **Lyophilization Technology**
- **Molecular Techniques**
  - ✓ DNA Extraction From Filamentous Fungi and Yeasts
  - ✓ RNA Extraction From Filamentous Fungi and Yeasts
  - ✓ cDNA Synthesis
  - ✓ Several PCR Methods Such as Multiplex PCR, RACE PCR, Nested PCR, Semi Nested PCR, Semi-quantitative RT-PCR, RAPD PCR
  - ✓ Quantitative Real-Time PCR (SYBERGreen)
  - ✓ Cloning (Preparing Competent Cells, TA-cloning, Miniprep)
  - ✓ RNAi Technology

## **10- Membership of Societies**

- Iranian Society of Parasitology
- Iranian Society of Medical Mycology
- International Society for Human and Animal Mycology (ISHAM)

## **11- Responsibility**

- Responsibility of Medical Students Advisors
- Advisor of Students of Medicine

## **12- Others**

- **Reviewer of:**

- ✓ Qom University of Medical Sciences Journal
- ✓ Arak Medical University Journal