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Fatemeh Norouzi
Curriculum Vitae

Personal Data

Name: Fatemeh

Surname: Norouzi

Marital Status: Married

Email: Fn.microbiology@yahoo.com

University Education:

- PhD in Medical Bacteriology: Isfahan University of medical sciences, Isfahan, Iran, since 2016-2021.

Title of PhD Thesis: Evaluation of Drug Resistance Evolution in the Mycobacterium Tuberculosis Clinical Isolates of Isfahan Tuberculosis Regional Reference Laboratory by Molecular Method During 2017-2019.

- MSc in Medical Microbiology: Kerman University of Medical Sciences, Kerman, Iran, 2007-2010.

Title of MSc Thesis: Evaluation of virulence factors among clinical isolates of ESBL and non-ESBL Pseudomonas aeruginosa

- BSc in Medical Laboratory Science: Kerman University of Medical Sciences, Kerman, Iran, 2003-2005.
- Associated degree in Laboratory Sciences (Medical Lab Technology), Shiraz University of Medical sciences, Shiraz-Iran, 2000-2002

Teaching experience:

Field of teaching and period: Clinical bacteriology, Clinical microbiology (since 2013):

- Teaching “Theoretical and practical bacteriology” to medical students at Fasa University of Medical Sciences since 2013.

- Teaching “Theoretical bacteriology” to medical laboratory sciences students at Fasa University of Medical Sciences since 2013.
- Teaching “Practical bacteriology” to medical laboratory sciences students at Fasa University of Medical Sciences since 2013.
- Teaching “Theoretical and practical microbiology” to nursing students at Fasa University of Medical Sciences since 2013.
- Teaching “Theoretical and practical microbiology” to public health students at Fasa University of Medical Sciences since 2013.
- Teaching “Theoretical and practical microbiology” to surgical technology students at Fasa University of Medical Sciences since 2013.
- Teaching “Theoretical and practical microbiology” to anesthesiology students at Fasa University of Medical Sciences since 2013.

Field of research:

Medical Bacteriology, Antibiotic Resistance, Drug Resistance, Drug efflux pumps, Mycobacterium tuberculosis.

Employment History:

Name of Company or Organization	**Job title**	**From**	**To**	**Duties**	**City/Country**
Laboratory of Kavar's Health Center	Laboratory technician	16 November 2002	20 January 2003	Perform laboratory tests such as: • Microbiology • Biochemical • Hematology	Kavar/Fars/Iran
Laboratory of Shahid Motahari Marvdasht Hospital	Laboratory expert	21 August 2005	22 July 2007	Perform laboratory tests such as: • Microbiology • Immunology • Biochemical • Hematology	Marvdasht /Fars/Iran
Professor Alborzi Clinical Microbiology Research Center	Laboratory Master	4 December 2010	2 February 2013	Perform laboratory tests such as: • Bacteriology research • Identification of bacteria from blood culture - BACTEC	Shiraz/Fars/Iran
Fasa University of Medical Sciences	Faculty Member	3 February 2013	Until now	• Teaching • Research • Departmental Meetings • Academic Advising	Fasa/Fars/Iran

National and international Publications: (1-18)

"A novel Mutation in the Efflux Pump Rv1258c (Tap) Gene in *Mycobacterium tuberculosis* Clinical Isolates Resistant to First-Line Drugs in Iran".

ShimaSadat Farzaneh, **Fatemeh Norouzi**, Hossein Fazeli, Mahshid Salehi, Marzieh Safari, Bahram Nasr Esfahani:

The Journal of Infection in Developing Countries (JIDC) decision is to: **Accept submission**

1. Rezaei Z, Asaei S, Sepehrpour S, Jamalidoust M, Namayandeh M, **Norouzi F**, et al. SARS-CoV-2 variants circulating in the Fars province, southern Iran, December 2020–March 2021: A cross-sectional study. Health Science Reports. 2023;6(6).

2. Sari A, Zandi M, Fani M, Pahlavanzadeh B, Asadi M, Maghsoudi F, **et al**. Comparison of the effect of COVID-19 pandemic on the vaccination status of children in years of 2019 and 2020 in Abadan health centers, Iran. Journal of Jahrom University of Medical Sciences. 2023;20(1):0-.

3. **Norouzi F**, Moghim S, Farzaneh S, Fazeli H, Salehi M, Nasr Esfahani B. Significance of the coexistence of non-codon 315 katG, inhA, and oxyR-ahpC intergenic gene mutations among isoniazid-resistant and multidrug-resistant isolates of Mycobacterium tuberculosis: a report of novel mutations. Pathogens and global health. 2022;116(1):22-9.

4. Farzaneh SS, **Norouzi F**, Fazeli H, Moghim S, Nasr Esfahani B. Resistance to First-line Drugs in Clinical Isolates of Mycobacterium tuberculosis in Isfahan. Journal of Isfahan Medical School. 2022;40(685):654-8.

5. Haghighifar E, **Norouzi F**, Kamali Dolatabadi R. Molecular detection of Extended-Spectrum β-lactamases (ESBLs) and biofilm formation in uropathogen Klebsiella pneumoniae in Iran. Medical Journal of The Islamic Republic of Iran (MJIRI). 2021;35(1):563-7.

6. Haghighifar E, Dolatabadi RK, **Norouzi F**. Prevalence of blaVEB and blaTEM genes, antimicrobial resistance pattern and biofilm formation in clinical isolates of Pseudomonas aeruginosa from burn patients in Isfahan, Iran. Gene Reports. 2021:101157.

7. **Norouzi F**, Shokouhi Mostafavi SK, Hasanvand F, Nojoomi F. Risk Factors Associated with ESBL and CPE Acquisition among Pediatrics: A Systematic Review. Infection Epidemiology and Microbiology. 2018;4(1):35-40.

8. Mobasheri F, Manoochehri M, **Norouzi F**. Critical thinking skills among Bachelor students at Fasa University of medical sciences. Development Strategies in Medical Education. 2017;4(1):4-15.

9. Ghasemian A, **Norouzi F**, Ashiani D. Prevalence Of BlaPer-1 In Esbl-Producing Clinical Isolates Of Pseudomonas Aeruginosa In The Icus Of Several Iranian Hospitals. 2016.

10. Molazade A, Shahi A, Najafipour S, Mobasheri F, Norouzi F, Abdollahi Kheirabadi S, et al. Antibiotic Resistance Pattern of Bacteria Causing Urinary Tract Infections in Children of Fasa During the Years 2012 and 2014. Journal of Fasa University of Medical Sciences/Majallah-i Danishgah-i Ulum-i Pizishki-i Fasa. 2015;4(4).

11. Molazade A, Shahi A, Gholami M, Najafipour S, Jafari S, Mobasheri F, **et al**. The antibiotic resistance pattern of gram-negative bacilli isolated from urine cultures of adult outpatients admitted

to Vali Asr Hospital of Fasa Clinical Laboratory in 2012-13. Journal of Jahrom University of Medical Sciences. 2014;12(3).

12. **Norouzi F**, Aminshahidi M, Heidari B, Farshad S. Bacteremia Due to Actinomyces naeslundii in a T cell Lymphoma Child; a Case Report. Jundishapur Journal of Microbiology. 2013;6(3):306.

13. Mansouri S, Razavi M, **Norouzi F**, Sasan GN. Prevalence of β-Lactamase production and antimicrobial susceptibility of multidrug resistant clinical isolates of non-fermenting Gram negative bacteria from hospitalized patients in Kerman/Iran. 2012.

14. Farshad S, **Norouzi F**, Aminshahidi M, Heidari B, Alborzi A. Two cases of bacteremia due to an unusual pathogen, Comamonas testosteroni in Iran and a review literature. The Journal of Infection in Developing Countries. 2012;6(06):521-5.

15. Razavi M, Mansouri S, **Norouzi F**. Antibiotic resistance pattern among nonfermenting gram-negative bacteria isolated from clinical specimens during 2007-2008 in Kerman, IRAN. Iranian Journal of Medical Microbiology. 2011;4(4):7-13.

16. Mansouri S, **Norouzi F**, Moradi M, Nakhaee N. Comparison of virulence factors among clinical isolates of Pseudomonas aeruginosa producing and non-producing extended spectrum beta-lactamases. Current research in Bacteriology. 2011;4(3):85-93.

17. **Norouzi F**, Mansouri S, Moradi M, Razavi M. Comparison of cell surface hydrophobicity and biofilm formation among ESBL-and nonESBL-producing Pseudomonas aeruginosa clinical isolates. African Journal of Microbiology Research. 2010;4(11):1143-7.

18. **Norouzi F**, Kalantar D, Mansouri S, Moradi M, Valipour E, Orangi M. Imipenem And Metallo-β -Iactamases Enzymes Resistance In β Lactamase Producing Clinical Isolates Of Pseudomonas Aeruginosa. 2010.

Abstract presentations in national and international congresses:

1. **Norouzi F**., Mansouri S., Moradi M. Comparison of cell surface hydrophobicity as virulence factor among ESBL and Non ESBL- producing Pseudomonas aeruginosa. (Abstract). The 3rd Iranian congress of clinical microbiology, 6-8. Oct.2009, Shiraz/ Iran.
2. Anvarinejad M., Farshad S., **Norouzi F.,** Esmaeili A. Resistance-Molecular Epidemiology of Uropathogenics Escherichia Coli those are resistant to Quinolones. (Abstract). 4th Iranian Congress of Clinical Microbiology, 9-11 November 2010, Isfahan/ Iran.
3. **Norouzi F**., Mansouri S., Moradi M. The Relationship between biofilm formation and ESBL-producing in clinical isolates of Pseudomonas aeruginosa. (Abstract). The 8th iranian congress on infectious Diseae and Tropical Medicine 12-16 dec .2009. Tehran/ Iran.
4. Aminshahidi M., **Norouzi F**., Farshad S., Heidari B., Alborzi A., Anvarinejad M. Isolation of Actimyces naeslundii from blood culture of a patient with T cell lymphoma. (Abstract) First International and 12th Iranian Congress of Microbiology, 23 -26 May 2011 in Kermanshah, IRAN.
5. **Norouzi, F**. Resistance to imipenem and presence metalo beta lactamase among ESBL-producing clinical isolates of Pseudomonas aeruginosa in Gotbe-Din burn hospital in

Shiraz. 11th Iranian Microbiology Congress & 1 East Mediterranean Microbiology Congress Guilan University of Medical Sciences, 10-13 May, 2010, Langerud/ Iran.

6. **Norouzi F**., Mansouri S., Moradi M. Comparison of cell surface hydrophobicity as virulence factor among ESBL and Non ESBL- producing Pseudomonas aeruginosa. (Abstract). 11th Annual Research Congress of Iranian Medical Sciences Student; April 20-23, 2010, Bandar Abbas, Iran.

7. Mansouri S., **Norouzi F**., Moradi M. The Relationship between Cell Surface Hydrophobicity and drug resistance of Pseudomonas aeruginosa clinical isolates, Edinburgh International Conference Centre 29 March–1 April 2010, SGM Spring 2010 Meeting.

8. Mansouri S., **Norouzi F**., Moradi M. Correlation between cell surface hydrophobicity and biofilm formation in clinical isolates of ESBL- and non–ESBL-producing Pseudomonas aeruginosa, Edinburgh International Conference Centre 29 March–1 April 2010, SGM Spring 2010 Meeting.

9. Farzaneh SS, **Norouzi F**, Nasr Esfahani B. A Novel Mutation in the Efflux Pump Rv1258c (Tap) Gene in Mycobacterium tuberculosis Clinical Isolates Resistant to First-Line Drugs in Iran. 2022, The 23rd International Congress of Microbiology held in Tehran from August 30 to September 1st.

10. **Fatemeh Norouzi**, ShimaSadat Farzaneh, Bahram Nasr Esfahani. Evaluation Second Line Anti-Tubercular Drug Resistance among Mycobacterium tuberculosis Clinical Isolates of Isfahan Tuberculosis Regional Reference Laboratory. 2023. The 24th Iran's International Congress of Microbiology held from September 18-20 inTehran, Iran.

Society Memberships:

Iranian Society for Microbiology

Research Projects:

- Prevalence of bacterial infection in patients with otitis externa referred to ENT clinic in Fasa University of medical sciences in 2023-2024.

- Prevalence of TEM, SHV and AMPc genes among clinical isolates of ESBl -producing Escherichia coli and Klebsiella pneumonia by PCR method in Fasa hospitals.

- The assessment of knowledge about the elite Regulations, genius and national paradigm among students of Fasa University of medical sciences 2013-2014.

- Critical thinking skills of students at Fasa University of Medical Sciences in 2013.

Supervisory Experience:

- Supervision of 1 MSc indirectly at Isfahan University of medical sciences

- Supervision of 2 MD students directly in thesis projects at Fasa University of Medical Sciences.
- Participated as a 1st executive in 2 research projects,
- As a coworker in one project

Executive Positions:

- A member of the Non-Viral Infectious Diseases Reference Committee from Feb.20, 2016 for one year.
- As a director of traditional medicine affairs at the university.

Professional Service:

- **Peer review:**
  - Reviewed 4 articles for the Journal of Advanced Biomedical Sciences and continue to collaborate with them as a referee.
  - Participated in the peer review process: 12 research project proposals and 4 theses.
  - As a reviewer including 4 workshops of advanced research at Fasa University of medical sciences

- **Editorial boards/conference organization:**
  - Serving as a conference referee for the 24th Iran's International Congress of Microbiology in Tehran, Iran from 18-20 September, 2023

- **Participation in the Organization of research workshops:**
  - Workshop on Diagnostic of Under Care Bacterial Meningitis
  - Workshop on Standard methods of bacteria detection, resistance deterioration and antibiogram
  - Workshop on strategies for successful research writing and publishing

Experience in laboratory techniques:

- Have a background in studying antibiotic resistance
- Proportion method for Antimicrobial Susceptibility Testing of Mycobacterium tuberculosis
- Work with CLC Genomics Workbench and analysis DNA sequence
- Proficiency in data analysis
- Extraction and purification of DNA
- Purification of Plasmid DNA
- Sequence Analysis
- Agarose Gel Electrophoresis
- DNA Gel Electrophoresis
- Use of PCR (Polymerase Chain Reaction) machines
- ELISA
- Work with BACTEC Automated Blood Culture System and diagnose pathogens following blood infection

Honors and Awards:

- The **first rank** of university in graduated MSc in medical microbiology and other MSc fields (2010).
- **Acquiring 1st** ranked among my classmates in the master's course.
- The **Fourth national rank** in the Ph.D. entrance exam of the Ministry of Health and Medicine in medical bacteriology (2016).
- Acquiring the required privileges from the executive headquarters of the university and being selected as a **Top Student of the university** in the master's course.
- A member of the talent office of Kerman University of Medical Sciences and **ranked 1st** according to domestic bylaws of this branch with the privilege of 364 in the master's course.
- Defending the doctoral thesis with an excellent grade and acquiring a score of 20
- Defending the master's thesis with an excellent grade and acquiring a score of 20
- Acquiring a doctorate G.P.A (19.29) in the doctorate course
- Acquiring a Master G.P.A (18.98) in the Master course