

CURRICULUM VITAE



Dr. Farhad Moradi

PhD, MSc, BSc (MC No: L-5834)

Assistant Professor of Medical Bacteriology

*Department of Bacteriology and Virology,
School of Medicine, Shiraz, Iran*

Educations

✚ PhD in Medical Bacteriology, “Shiraz University of Medical Sciences” Shiraz, Iran.

✚ MSc in Medical Microbiology, “Shiraz University of Medical Sciences” Shiraz, Iran.

✚ BSc in Medical Laboratory Sciences, “Jahrom University of Medical Sciences” Jahrom, Iran.

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IR Iran Medical Council No:
L-5834



Educational Background

- ✚ Straight admission to the PhD Program in Medical Bacteriology, based on the guidelines of the Ministry of Health of Iran for brilliant talents.
- ✚ Achieved the first educational academic rank in the Master's degree of Medical Microbiology, School of Medicine, Shiraz University of Medical Sciences.
- ✚ Achieved a brilliant talent score in the Master's degree of Medical Microbiology, based on the procedures of the Ministry of Health of Iran for brilliant talents.
- ✚ Achieved the first educational academic rank in the PhD degree of Medical Bacteriology, School of Medicine, Shiraz University of Medical Sciences.

Teaching Courses

- ✚ Applied Oral Microbiology Course for Periodontics, Endodontics and Prosthodontics Dental Specialty students (2025-2026).
- ✚ Theoretical Course in Medical Bacteriology for Nursing, Medical, Pharmacy, & Dentistry students at Shiraz University of Medical Sciences, 2024-2026.
- ✚ Theoretical Course in Medical Bacteriology for Nursing & Anesthesia Students at Shiraz University of Medical Sciences, 2020-2024.
- ✚ Medical Bacteriology Practical Course for Medical Laboratory Sciences, Operating Room, Nursing, & Anesthesia Students (Bacteriology Laboratory, Jahrom University Of Medical Sciences, 2015-2016.
- ✚ Involvement in Educating Practical Medical Bacteriology for Medical, Pharmacy, Dentistry, & International Medical Students (Bacteriology Laboratory, Shiraz University of Medical Sciences, 2018-2019.
- ✚ Practical Course In Medical Bacteriology For Medicine, Pharmacy, Dentistry, Operating Room, Nursing, & Anesthesia Students (Bacteriology Lab, Shiraz University Of Medical Sciences, 2020-2024.



Title of Thesis

Title of MSc Thesis:

Inhibition of quorum sensing system in *chromobacterium violaceum* CV026 by herbal extracts of *Diantus*, *Eucalyptus*, and *Dionysia revolute*

<https://doi.org/10.1016/j.nmni.2020.100769>

Title of PhD Thesis:

Investigating the Effect of Photodynamic Therapy Based on Curcumin Nanosensitizer Encapsulated with Nanomicelles against Drug-Resistant Clinical Isolates of *Klebsiella pneumoniae*

<https://doi.org/10.1016/j.heliyon.2024.e36858>

Patent Registration

Title;

 Polyvinyl Chloride (PVC) composite floor drain cover with anti-microbial and odor control properties

Patent Characteristics:

Iranian Patent Office, Intellectual Property Office (IIPO) with;

✓ **Declaration No:** 140250140003006849,

✓ **Registration No:** 111680,

✓ **International Classification:** E03C 1/22, E03C 1/00.

 [Approved by the Administration for the Registration of Industrial Properties (ARIP), the Registration Organization for Deeds and Properties of Iran (RODP)].

Publications (Book)

- + Applications of bacteria in various industrial fields; Shiraz University of Medical Sciences Publisher.
- + New methods for controlling drug resistance in bacterial infections. Tarjoman Negar Publisher, Iran. 2024. ISBN: 9786224902948
- + Importance of Photodynamic Therapy in Treatment of Bacterial & Viral Infections; Arshadan book publisher, Iran, March 2024. ISBN: 978-622-08-8761-4.
- + Antimicrobial Nanofibers and Textiles in Medicine “Importance, Design Technology & Applications”. Arshadan book publisher; January 2024. ISBN: 978-622-08-8470-5
- + Quorum Sensing and Quorum Quenching" Communication systems in pathogenic bacteria, new therapeutic targets. Arshadan, Iran, December 2023. ISBN: 978-622-08-8104-9.
- + Mycobacterium Leprae and Nontuberculous Mycobacteria; Arshadan, Iran, October 2023. ISBN: 978-622-08-7096-8.

Recent Conferences & Congresses

- ✚ **Oral presentation at 2nd Global Summit on Pediatrics and Child Health Care, London, UK. March 12-14, 2026**
Title: *Aeromonas veronii* biovar *sobria* intestinal infection in a child girl after eating freshwater fish and drinking from a natural river in Southern Fars Province, Iran
<https://pediatrics2026.researchconnects.org/>
- ✚ **Oral presentation at the International Conference on Dermatology & Skincare, Chicago, USA (2024-2026).** (<https://www.scitechseries.com/dermatology/speaker/farhad-moradi>)
- ✓ **Oral Presentation (2026)**
Title: From pathogenicity to therapy: Investigating the Therapeutic Potential of *Bacillus anthracis* Anthrax Toxin in Novel Cancer Therapies and Oncological Research.
- ✓ **Oral Presentation (2025)**
Title: Evaluation of the wound healing efficacy of new antibacterial polymeric nanofiber based on polyethylene oxide coated with copper nanoparticles and defensin peptide: An in-vitro to in-vivo assessment
- ✓ **Oral Presentation (2024)**
Title: Recent advance on nanoparticles or nanomaterials with anti-multidrug resistant bacteria and anti-bacterial biofilm properties
- ✚ **Participated as a Potential reviewer at the Second National Conference on New Findings in Microbiology and Production of Biological Products, Shiraz, Apadana Institute, 2025.**
- ✚ **Poster presentation at The Second Regional Congress of the Student Research and Technology Committee of Shiraz University of Medical Sciences and the 12th Congress of the Experimental Zone Five, (SUMS SRC CONGRESS 2025)**
- ✚ **16th Professor Alborzi International Congress of Clinical Microbiology (2023).**
Acceptance and presentation of at least 12 posters and selection of the best poster for **oral presentation** on the topic: Wound healing efficacy of new antibacterial polymeric nanofibers.
- ✚ **Oral presentation of 4 projects at the First National Conference on New Findings in Microbiology and the Production of Biological Products.** Institute of Higher Education Apadana. Conference national idMPBP01, (2023).
- ✚ **Poster presentation at Twenty-third International Congress of Microbiology of Iran papers. 30 August 2022, Tehran.**
Conference national idMEDISM23.
- ✚ **Member of the Executive Staff of the Organizer of the 11th International Dr. Alborzi Congress, Shiraz**



Books & Journals Reviewer Histories

<https://www.researchgate.net/profile/Farhad-Moradi-3/research>

+ **BP International: Professional Academic Book Publisher**

- ✓ *Six Review cases until 2024*

+ **Member of Elsevier Reviewer Hub;** Reviewer of

- ✓ *Heliyon (Cell press) journal*
- ✓ *Microbiological Research journal*
- ✓ *Journal of Infection and Public Health journal*
- ✓ *Clinical Epidemiology and Global Health journal*
- ✓ *IDCases journal*
- ✓ *Infection, Genetics and Evolution journal*
- ✓ *Infection Prevention in Practice journal*
- ✓ *International Journal of Infectious Diseases journal*
- ✓ *Journal of Microbiological Methods journal*
- ✓ *Journal of Microbiology, Immunology and Infection journal*
- ✓ *The Microbe journal*
- ✓ *Medical Reports journal*
- ✓ *Decoding Infection and Transmission journal*

+ **Springer nature (BMC);** Reviewer of

- ✓ *Scientific Reports journal*
- ✓ *Archives of Microbiology journal*
- ✓ *BMC Infectious Diseases journal*
- ✓ *BMC Oral Health journal*

+ **Bentham Science Publisher;** Reviewer of

- ✓ *Recent Advances in Anti-Infective Drug Discovery journal*
- ✓ *Recent Advances in Drug Delivery & Formulation journal*

+ **ACS Journal;** Reviewer of

- ✓ *ACS Pharmacology & Translational Science journal*

+ **Academic Journals (Publisher);** Reviewer of

- ✓ *African Journal of Food Science journal*
- ✓ *African Journal of Biotechnology (AJB) journal*



- + **Iranian Journals;** Reviewer of
 - ✓ *Iranian Journal of Basic Medical Sciences*
 - ✓ *Infection Epidemiology and Microbiology*

- + **International journals;** Reviewer of
 - ✓ *Open Veterinary Journal*
 - ✓ *PLANT CELL BIOTECHNOLOGY AND MOLECULAR BIOLOGY*
 - ✓ *Archives of Current Research International journal*
 - ✓ *Asian Food Science Journal journal*
 - ✓ *Asian Journal of Research in Infectious Diseases*
 - ✓ *International Journal of Pathogen Research*
 - ✓ *International Journal of TROPICAL DISEASE & Health*
 - ✓ *Journal of Advances in Medicine and Medical Research*
 - ✓ *Journal of Advances in Microbiology*
 - ✓ *Journal of Materials Science Research and Reviews*
 - ✓ *Journal of Pharmaceutical Research International*
 - ✓ *Journal of Scientific Research and Reports*
 - ✓ *Microbiology Research Journal International*
 - ✓ *Asian Journal of Advanced Research and Reports*
 - ✓ *& Others.....*

- + **History of reviewing Iranian national inventions at the Patent Office of Shiraz University of Medical Sciences**

Experience & Skills

- ✦ Bacteriological phenotypic and molecular diagnostic tests, anti-microbial susceptibility testing (Anti-biogram, MIC, MBC), and quality control in the microbiology laboratory.
- ✦ Experience as a laboratory expert in the laboratories of Imam Ali Hospital (Bushehr Air Force), Peymaniyeh Hospital and Ghafouri Health Center (Fars, Jahrom) in the units of hematology (CBC with differential count, ESR), blood bank (ABO group (cell type & back type), Rh typing, cross match and coombs test), bacteriology and parasitology (OB, OP analysis), biochemistry and serology (CRP, RF, anti-CCP, & etc.).
- ✦ Designing and analyzing drug nanocarriers, such as nanomicelles.
- ✦ Activity in the field of working with flow cytometry, atomic force microscopy, DLS, UV-SPECT, performing and analyzing FTIR and PCR results.
- ✦ Activity in the field of extracting and working with medicinal plants with antimicrobial properties.
- ✦ Activity in the field of industrial and medical polymers and designing biocomposites with antibacterial properties.
- ✦ Working on new methods to overcome antibiotic resistance, including quorum quenching, antibacterial photodynamic therapy, and herbal therapy.
- ✦ Working in the field of hospital pharmacy and pharmaceutical prescription.
- ✦ Attaining the International Computer Driving License (ICDL) 1&2 (seven computer skills) from the Technical and Vocational Training Organization of Iran.

Recent Research Programs

- ✚ Evaluation and analysis of antibiotic susceptibility patterns of the clinical isolates of *Ralstonia pickettii* isolated from clinical specimens of patients at Namazi Hospital, Shiraz, 2021-2025. (IR.SUMS.MED.REC.1404.628)
- ✚ Analysis of microbial prevalence and drug resistance patterns of non-fermentative bacilli *Acinetobacter* and *Stenotrophomonas* isolated from patients admitted to acute and intensive care units of Namazi Hospital, Shiraz, 2024-2025. (IR.SUMS.MED.REC.1405.061).
- ✚ Prevalence and Antibiotic Susceptibility of *Staphylococcus aureus* Isolates from Patients with Folliculitis at Shahid Faghihi Hospital, Shiraz (2025-2026).
- ✚ Investigation of the rate of contamination and antibiotic resistance patterns of *Stenotrophomonas maltophilia* and *Acinetobacter baumannii* isolated from bacteriological cultures of endotracheal tubes of hospitalized patients in Namazi Hospital, Shiraz, during 2024-2025. (IR.SUMS.MED.REC.1405.067)
- ✚ Clinical Significance and Association of Serum Ferritin Levels with Bacterial Infections among Hospitalized Patients in Shiraz Teaching Hospitals, 2026.
- ✚ Investigating temperature changes in lung tissue cells during antimicrobial photodynamic therapy and finding optimized radiation parameters through Monte Carlo simulations and in-vitro experiments.
- ✚ Investigation the in-vitro effects of carvacrol on polymicrobial biofilm of *Candida albicans* and *Staphylococcus aureus*.
- ✚ Determination of the frequency and diversity of fermentative and non-fermentative gram-negative bacilli isolated from newborns with sepsis hospitalized in Hafez and Dastgheib hospitals in Shiraz (1403-1404)
- ✚ Evaluation of antibiotic resistance patterns of gram-negative bacilli causing blood infections in children under two years of age admitted to Shiraz teaching hospitals in 1404-1405.

Recent Paper Publications

<https://scholar.google.com/citations?hl=en&user=s-kzOQkAAAAJ>

- ✚ *Pseudomonas stutzeri* gastrointestinal infection in a patient with cardiovascular disease: a case report; Journal of Medical Case Reports 20 (1), 375, **2026**.
- ✚ Beyond traditional therapies: a narrative overview of antimicrobial photodynamic therapy in combating bacterial and viral infections. Archives of Microbiology; **2026**.
- ✚ Theranostic potential of MXene-based platforms for dual MiRNA targeting in metastatic bladder cancer. Cancer Cell International; **2025**.
- ✚ Global challenges of bacterial infections in organ transplantation: assessment of risk factors and predominant bacterial pathogen profiles threatening liver, kidney, heart, and BMC Infectious Diseases 25 (1), 1153. **2025**.
- ✚ From pathogenicity to therapy: Investigating the Therapeutic Potential of Bacillus anthracis Anthrax Toxin in Novel Cancer Therapies and Oncological Research. Arch Microbiol 207, 205 (**2025**).
- ✚ Aeromonas veronii biovar sobria intestinal infection in a child girl after eating freshwater fish and drinking from a natural river in Southern Fars Province, Iran. IDCases. **2025** 5:e02245.
- ✚ Aeromonas characteristics in Iran, Southwest Asia; a systematic review and meta-analysis on epidemiology, reservoirs and antibiotic resistance profile from aquatic environments to human society during 2000–2023. BMC Veterinary Research. **2025** Feb 26; 21(1):107.
- ✚ Molecular characterization of superbugs K. pneumoniae harboring extended-spectrum β -lactamase (ESBL) and carbapenemase resistance genes among hospitalized patients in southwestern Iran, Western Asia. Heliyon. **2024**; 15; 10(17).
- ✚ Evaluation of the wound healing efficacy of new antibacterial polymeric nanofiber based on polyethylene oxide coated with copper nanoparticles and defensin peptide: An in-vitro to in-vivo assessment. Heliyon. **2024** Apr 30; 10(8).
- ✚ Ralstonia pickettii bloodstream infection in the patient with Guillain-Barre syndrome under plasmapheresis. New Microbes and New Infections. **2024** Jan 12; 57:101218.
- ✚ Investigating the prevalence and clinical significance of Helicobacter pylori in hospitalized patients undergoing endoscopy in namazi hospital, Shiraz. 2023; 102-113.
- ✚ Vancomycin-resistant enterococcus faecium bacteremia in end-stage renal disease (ESRD) and focal segmental glomerulosclerosis (FSGS) patient under hemodialysis. Heliyon. 2024; 30; 10 (16)

