

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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Research Gate;

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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

- ✚ 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 Medicine, 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).
- ✚ Theoretical Course in Medical Bacteriology for Nursing & Anesthesia Students at 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)

- + 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 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

- ✚ **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**

Recent Paper Publications

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

- ✚ 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).
- ✚ *Francisella* and tularemia in western Asia, Iran: a systematic review. *New Microbes and New Infections*. 2023; 1; 52:101092.
- ✚ Recent advance on nanoparticles or nanomaterials with anti-multidrug resistant bacteria and anti-bacterial biofilm properties: A systematic review. *Heliyon*. 2023.
- ✚ Recent advances in laboratory detection of *Chlamydia trachomatis* using gold (au) nanoparticle-based methods; another evolution of nanotechnology in diagnostic bacteriology. *Microchemical Journal*. 2024; 1; 205:111373.
- ✚ How nanomaterials act against bacterial structures? A narrative review focusing on nanoparticle molecular mechanisms. *Microbial Pathogenesis*. 2024; 1; 196:107002.
- ✚ 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.

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.