

Seyed Mostafa Hosseini

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Affiliations: Department of Microbiology, Faculty of Medicine, Hamadan University of Medical Sciences, Hamadan, Iran



Education

- *January 2015- July 2019: PhD in medical bacteriology, Department of Microbiology, Faculty of Medicine, Hamadan University of Medical Sciences, Hamadan, Iran.*
- *Thesis title: “Doxycycline-encapsulated solid lipid nanoparticles for the enhanced antibacterial potential to treat the chronic brucellosis and preventing its relapse: in vitro and in vivo study”*
- *September 2012- December 2014: Master of Science (M.Sc.) in medical microbiology, Department of Microbiology, Faculty of Medicine, Hamadan University of Medical Sciences, Hamadan, Iran.*
- *2006- 2011: B.Sc. in Laboratory Sciences, Semnan University, Semnan, Iran.*

Awards

- *2016: Best Ph.D student award*
- *2017: Best researcher award (Ph.D student)*
- *2019: Best researcher award (Ph.D student)*
- *2023: Best researcher award*

Research interest

- *Treatment of Intercellular bacteria*
- *Drug delivery systems*
- *Molecular microbiology*
- *Antimicrobial Resistance*
- *Bacterial Pathogenesis*
- *Medical Microbiology*
- *Diagnostic Microbiology*
- *Staphylococcus Aurous*
- *Brucella melitensis*

Language

Persian (Native)

English (Fluent)

Technical Proficiency:

1. Molecular analysis:

- a. ■ *DNA and RNA extraction (both manually and by kit)*
- b. *Molecular typing (RAPD-PCR, PCR-RFLP, PFGE)*
- c. *Quantitative and qualitative diagnosis of infectious agents (such as HCV,*
 - i. *HBV, HPV and species of Brucella, Mycobacterium, and so on).*
- d. *Detecting some kinds of mutations such as Jac2, BCR-ABL and HLA typing.*

2. Cell culture:

- a. *Culturing different cell lines, specially monocytes and macrophages (J774.A1)*
- b. *Culturing and infecting cells with intracellular bacteria and viruses, evaluating cytotoxicity, staining and cell count.*

3. Animal study:

- i. *Working on animal models (mice, rats)*
- ii. *Infecting rats with various kinds of infectious diseases (such as *Brucella melitensis* and *Staphylococcus aureus*), and studying their extracted tissues using Hematoxylin and Eosin staining.*

4. Nanotechnology

- i. *Study of drug delivery system, preparation of various nanoparticles (PLGA, SLN...) loaded with hydrophilic and lipophilic drugs. Experienced in using HPLC, Electronic Microscope, ultrasonic device, DSC, FTIR, and other devices useful for developing nanoparticles.*

5. Microbial techniques

- i. *Isolation and identification of antibiotic sensitivity in bacteria, maintenance of microbiological strains, plasmid isolation from microbial cells, cloning and transformation. Culturing and staining various kinds of gram-positive and gram-negative bacteria. Skillful in isolation and diagnosis of bacteria.*

6. Medical laboratory techniques

- i. *As mentioned before, I've been working in a medical diagnostic and pathobiology lab for five years (as a supervisor). I am completely skillful in working with diagnostic devices, including;*
- ii. *Autoanalysis (for routine biochemical tests such as ALP, AST, Urea, Total Bilirubin, Phosphorus and, so on)*
- iii. *Cobas (electrochemiluminescence)*
- iv. *Vidas (for serological and hormone tests such as TSH, FSH, Fetal diagnostic tests and, so on)*
- v. *Studying on blood cells and electrolytes*

7. Bioinformatics and computer skills

- *Skillful in statistical analyses useful in biomedical researches using IBM SPSS, and*

GraphPad Prism 5, BLAST, Primer design using NCBI and other web based bioinformatics tools.

❖ *Published papers in Scopus:*

<https://www.scopus.com/authid/detail.uri?authorId=56697838500>

❖ *Published paper in Researchgate:*

https://www.researchgate.net/profile/Seyed-Mostafa-Hosseini?ev=hdr_xprf&_sg=NDLIAUF6YT9XsEIOXoMD_YZ3MpbV6kMv-RpFyRANw3HzxFbuYGuAfp7TcuWNtFZoIATX47O210TxaOFb3Z_zNA0a

❖ *ORCID:* <https://orcid.org/0000-0003-2604-504X>

Conference abstracts/presentation: *I published approx. 25 abstracts in both international and national conferences.*