

# Curriculum Vitae

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## Hamed Ebrahimzadeh Leylabadlo

Assistant Professor, Medical Bacteriology

Liver and Gastrointestinal Diseases Research Center, Tabriz University of Medical Sciences, Tabriz, Iran

### PERSONAL DATA

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**Nationality:** Iranian

**Place of Birth:** Tabriz, Iran

**Date of Birth:** 7 January 1990

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### EDUCATIONAL BACKGROUND

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**Ph.D. in Medical Bacteriology** (2017-2021)

**Tabriz University of Medical Sciences**

Dissertation: Molecular analysis of gut microbiota (Bacteroidetes, Actinobacteria, Firmicutes and Proteobacteria) in patients with non-alcoholic fatty liver, type 2 diabetes and healthy people

**M.Sc. in Medical Microbiology** (2013-2016)

**Tabriz University of Medical Sciences**

Thesis: Frequency of *tnpA* and *tnpB* Genes in patients with *Helicobacter pylori* infection in Tabriz

### RESEARCH EXPERIENCES AND FIELDS OF INTEREST

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- Human Microbiome
- Gastrointestinal Microbiome
- Microbial Pathogenesis
- Gastrointestinal Infections
- Clinical Microbiology
- Microbiome in Health and Diseases
- *Helicobacter Pylori*
- Infectious Agents
- Antibiotic Resistance

## RESEARCH PROJECTS

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### Ph.D, M.Sc, Research, Tabriz University of Medical Sciences (2013-2022)

- Molecular analysis of gut microbiota (Bacteroidetes, Actinobacteria, Firmicutes and Proteobacteria) in patients with non-alcoholic fatty liver, type 2 diabetes and healthy people
- Evaluation of diversity and abundance of commensal and pathogenic microbes (bacteria and viruses) in the feces of people with metabolic syndrome
- Molecular investigation of changes in gut microbiota and the relationship between the effect of an gut bacteriophage in these changes and the severity of symptoms of irritable bowel syndrome
- Identification of pathogenic bacteria from stool samples of people with irritable bowel syndrome
- Molecular analysis of gut microbiota in autism patients
- The association of phylogenetic types of the *Klebsiella pneumoniae* isolates with antibiotic resistance in Tabriz during 2019
- Molecular typing of Multi Drug Resistant *Klebsiella pneumoniae* isolated from hospitalized patients by the MLVA methods at Tabriz during 2020
- Study on carbapenemases activities in MDR *Klebsiella pneumoniae* isolates by mCIM method, and carbapenemase genes blaIMP , blaNDM , blaVIM , blaKPC-2 and, blaOXA-48
- Investigating of the combined effect of beta-lactam, macrolide and aminoglycoside antibiotics on *Pseudomonas aeruginosa* biofilm in laboratory conditions
- Evaluation of *Porphyromonas gingivalis* DNA in the joint fluid of rheumatoid arthritis patients by Real Time PCR method
- Frequency of tnpA and tnpB Genes in patients with *Helicobacter pylori* infection in Tabriz

## PUBLICATIONS LIST

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- Ghotaslou R, Leylabadlo HE, Akhi MT, Sadeghi J, Yousefi L, Somi MH. The importance of *Helicobacter pylori* tnpA, tnpB, and cagA genes in various gastrointestinal diseases. *Molecular Genetics, Microbiology and Virology*. 2017 Jan;32(1):62-5.
- Leylabadlo HE, Yekani M, Ghotaslou R. *Helicobacter pylori* hopQ alleles (type I and II) in gastric cancer. *Biomedical reports*. 2016 May 1;4(5):601-4.
- Leylabadlo HE, Kafil HS, Farajnia S, Shanehbandi D, Moaddab SY, Feizabadi MM, Ghotaslou R. Gut microbiota in nonalcoholic fatty liver diseases with and without type-2 diabetes mellitus. *European Journal of Gastroenterology & Hepatology*. 2021 Dec 1;33(1S):e548-54.
- Leylabadlo HE, Ghotaslou R, Feizabadi MM, Farajnia S, Moaddab SY, Ganbarov K, Khodadadi E, Tanomand A, Sheykhsaran E, Yousefi B, Kafil HS. The critical role of *Faecalibacterium prausnitzii* in human health: An overview. *Microbial pathogenesis*. 2020 Dec 1; 149:104344.
- Leylabadlo HE, Sanaie S, Heravi FS, Ahmadian Z, Ghotaslou R. From role of gut microbiota to microbial-based therapies in type 2-diabetes. *Infection, Genetics and Evolution*. 2020 Jul 1; 81:104268.
- Leylabadlo HE, Ghotaslou R, Samadi Kafil, H., Feizabadi, M.M., Moaddab, S.Y., Farajnia, S., Sheykhsaran, E., Sanaie, S., Shanehbandi, D. and Bannazadeh Baghi, H., 2020. Non-alcoholic fatty liver diseases: from role of gut microbiota to microbial-based therapies. *European Journal of Clinical Microbiology & Infectious Diseases*, 39(4), pp.613-627.
- Zoghi S, Abbasi A, Heravi FS, Somi MH, Nikniaz Z, Moaddab SY, Leylabadlo HE. The gut microbiota and celiac disease: Pathophysiology, current perspective and new therapeutic approaches. *Critical Reviews in Food Science and Nutrition*. 2022 Sep 19:1-21.
- Baghi HB, Naghili B, Shanehbandi D, Leylabadlo HE. Evaluation of a human gut-associated phage and gut dominant microbial phyla in the metabolic syndrome. *Clinical Nutrition ESPEN*. 2022 Aug 1; 50:133-7.

- Ghaffari S, Abbasi A, Somi MH, Moaddab SY, Nikniaz L, Kafil HS, Leylabadlo HE. Akkermansia muciniphila: from its critical role in human health to strategies for promoting its abundance in human gut microbiome. *Critical Reviews in Food Science and Nutrition*. 2022 Feb 22;1-21.
- Etemadi S, Barhaghi MS, Leylabadlo HE, Memar MY, Mohammadi AB, Ghotaslou R. The synergistic effect of turmeric aqueous extract and chitosan against multidrug-resistant bacteria. *New Microbes and New Infections*. 2021 May 1; 41:100861.
- Leylabadlo HE, Kafil HS, Yousefi M, Aghazadeh M, Asgharzadeh M. Persistent infection with metallo-beta-lactamase and extended spectrum  $\beta$ -lactamase producer *Morganella morganii* in a patient with urinary tract infection after kidney transplantation. *Journal of natural science, biology, and medicine*. 2016 Jul; 7(2):179.
- Azargun R, Sadeghi V, Leylabadlo HE, Alizadeh N, Ghotaslou R. Molecular mechanisms of fluoroquinolone resistance in Enterobacteriaceae clinical isolates in Azerbaijan, Iran. *Gene Reports*. 2020 Dec 1; 21:100924.
- Leylabadlo HE, Heravi FS, Soltani E, Abbasi A, Kafil HS, Parsaei M, Sanaie S, Ahmadian Z, Ghotaslou R. The role of gut microbiota in the treatment of irritable bowel syndrome. *Reviews in Medical Microbiology*. 2022 Jan 1;33(1):e89-104.
- Sheykhsaran E, Hemmat N, Leylabadlo HE, Baghi HB. Bacterial and viral zoonotic infections: bugging the world. *Reviews in Medical Microbiology*. 2022 Jan 1; 33(1):e70-81.
- Valiei F, Leylabadlo HE, Ghotaslou A, Fallahi L, Ahmadian Z, Ghotaslou R. Role of dietary supplement in viral infection with an outlook on corona virus disease-2019. *Reviews in Medical Microbiology*. 2022 Jan 1;33(1):e137-47.
- Alihosseini S, Leylabadlo HE, Parsaei M, Sarafraz N, Ghanbarov K, Esposito S, Kafil HS. Current drugs with potential for coronavirus disease 2019 therapy: a literature review. *Reviews in Medical Microbiology*. 2022 Jan 1;33(1):e148-60.
- Oskouie, Y.A., Abbasi-Asl, M., Zonouz, A.T., Pashazadeh, F., Oskouie, S.A. and Leylabadlo, H.E., 2020. Prevalence of Staphylococcus aureus Nasal Carriage and Methicillin-resistant S. aureus Among Medical Students: A Systematic Review and Meta-analysis. *Jundishapur Journal of Microbiology*, 13(11).
- Abbaszadeh F, Leylabadlo HE, Alinezhad F, Feizi H, Mobed A, Baghbanijavid S, Baghi HB. Bacteriophages: cancer diagnosis, treatment, and future prospects. *Journal of Pharmaceutical Investigation*. 2021 Jan; 51(1):23-34.
- Alihosseini S, Ghotaslou R, Heravi FS, Ahmadian Z, Leylabadlo HE. Management of antibiotic-resistant Helicobacter pylori infection: current perspective in Iran. *Journal of Chemotherapy*. 2020 Jul 11; 32(6):273-85.
- Asgharzadeh M, Ozma MA, Rashedi J, Poor BM, Agharzadeh V, Vegari A, Shokouhi B, Ganbarov K, Ghalehlou NN, Leylabadlo HE, Kafil HS. False-positive Mycobacterium tuberculosis detection: Ways to prevent cross-contamination. *Tuberculosis and Respiratory Diseases*. 2020 Jul; 83(3):211.
- Leylabadlo HE, Baghi HB. Rabies Elimination by 2030: What Challenges Does Iran Face?. *Iranian Journal of Public Health*. 2020 Jul; 49(7):1397.
- Alihosseini S, Jaberinezhad M, SadeghpourHeravi F, Ghotaslou R, Leylabadlo HE. Invasive and non-invasive Helicobacter pylori diagnostic methods in Iran. *Gene Reports*. 2020 Sep 1; 20:100749.
- Asgharzadeh M, Fadaee M, Leylabadlo HE, Poor BM, Rashedi J, Asgharzadeh V, Vegari A, Shokouhi B, Ghalelou NN, Kafil HS. TNF- $\alpha$  gene polymorphism in Iranian Azeri population. *Gene Reports*. 2020 Jun 1; 19:100651.
- Yousefi L, Leylabadlo HE, Pourslak T, Eslami H, Taghizadeh S, Ganbarov K, Yousefi M, Tanomand A, Yousefi B, Kafil HS. Oral spirochetes: Pathogenic mechanisms in periodontal disease. *Microbial pathogenesis*. 2020 Jul 1; 144:104193.
- Etemadi S, Leylabadlo HE, Ghotaslou R. AmpC  $\beta$ -lactamase among Enterobacteriaceae: a new insight. *Gene Reports*. 2020 Jun 1; 19:100673.
- Mehtarpour M, Baghi HB, Leylabadlo HE. Amendment of International Funding Resource Approaches Required to Control HIV. *Iranian Journal of Public Health*. 2020 Apr 1; 49(4):810-1.
- Aghamali M, Taghizadeh S, Mehramuz B, Gholizadeh P, Tanomand A, Ganbarov K, Leylabadlo HE, Asgharzadeh M, Kafil HS. Nasal carriage of methicillin-resistant Staphylococci among healthcare workers of a university teaching hospital, Iran. *GMS Hygiene and Infection Control*. 2020.
- Hasani A, Faezi NA, Rezaee MA, Sheykhsaran E, Darabi N, Leylabadlo HE. Determination of antimicrobial resistance patterns in bloodstream infections-isolated bacteria from a university tertiary hospital patients. *International Journal of Enteric Pathogens*. 2019 Mar 11; 7(2):49-54.
- Leylabadlo HE, Faezi NA, Bialvaei AZ, Kafil HS. Esophageal cancer mortality in a high-incidence area (Golestan Province, north of Iran): which risk factors are causative? *European Journal of Cancer Prevention*. 2018 Nov 1; 27(6):577-8.
- Ghotaslou R, Leylabadlo HE, Nasiri MJ, Dabiri H, Hashemi A. Risk of gastric cancer in association with Helicobacter pylori different virulence factors: A systematic review and meta-analysis. *Microbial pathogenesis*. 2018 May 1; 118:214-9.
- Leylabadlo HE. Malaria Eliminating: What Lies Ahead of Iran? *Journal of Arthropod-Borne Diseases*. 2018 Mar 18; 12(1):100-.

- Shahsavari S, Baghi HB, Kafil HS, Leylabadlo HE. Re-emerging tularemia in some Middle East countries: what are the reasons? *Iranian Journal of Public Health*. 2018 Feb 3; 47(2):305-6.
- Aria M, Farajnia S, Ahdi S, Naghilli B, Farajnia H, Sanjari A, Leylabadlo HE, Tanoumand A, OXA-10 and OXA-2 ESBLs among multidrug-resistant *Pseudomonas aeruginosa* isolates from North West of Iran. *Progress in Biological Sciences*. 2017 Dec 1; 7(2):191-7.
- Shiri Aghbash P, Ebrahimzadeh Leylabadlo H, Fathi H, Bahmani M, Chegini R, Bannazadeh Baghi H. Hepatic Disorders and COVID-19: From Pathophysiology to Treatment Strategy. *Canadian Journal of Gastroenterology and Hepatology*. 2022 Dec 8; 2022.
- Kafil HS, Bagherbandi S, Bialvaei AZ, Leylabadlo HE. A Rare Case of Tracheobronchitis Alternariosis in a Renal Transplant Recipient. *Tuberculosis and Respiratory Diseases*. 2017 Oct 1; 80(4):401-2.
- Leylabadlo HE, Poulak T, Aghazadeh M, Asgharzadeh M, Kafil HS. Extended-spectrum beta-lactamase producing gram negative bacteria In Iran: A review. *African journal of infectious diseases*. 2017; 11(2):39-53.
- Leylabadlo HE, Kafil HS, Yousefi M. Gastric cancer mortality in a high-incidence area (Ardabil Province, Northwest Iran): What risk factors are causative? *European Journal of Cancer Prevention*. 2016 Nov 1; 25(6):573-8.
- Leylabadlo HE, Baghi HB, Fallahi L, Kafil HS. From sharing needles to unprotected sex: a new wave of HIV infections in Iran? *The lancet HIV*. 2016 Oct 1; 3(10):e461-2.
- Faezi NA, Bialvaei AZ, Leylabadlo HE, Soleimani H, Yousefi M, Kafil HS. Viral infections in patients with acute respiratory infection in Northwest of Iran. *Molecular Genetics, Microbiology and Virology*. 2016 Jul;31(3):163-7.
- Leylabadlo HE, Kafil HS, Yousefi M, Aghazadeh M, Asgharzadeh M. Pulmonary tuberculosis diagnosis: where we are?. *Tuberculosis and respiratory diseases*. 2016 Jul; 79(3):134.
- Leylabadlo HE, Shahsavari S, Mohammadzadeh A, Baghi HB. An Unlikely Aid: Fighting HIV through TV. *Iranian Journal of Public Health*. 2017 Nov 29; 46(12):1748-9.
- Leylabadlo HE, Zeinalzadeh E, Akbari NA, Kafil HS. *Malassezia* species infection of the synovium after total knee arthroplasty surgery. *GMS hygiene and infection control*. 2016; 11.
- Leylabadlo HE, Bialvaei AZ, Samadi Kafil H. Brucellosis in Iran: why not eradicated?. *Clinical Infectious Diseases*. 2015 Nov 15; 61(10):1629-30.
- Ghotaslou R, Yeganeh-Sefidan F, Salehi-Eshlaqi B, Leylabadlo HE. Etiology of acute bacterial meningitis in Iran: A systematic review. *Acta Medica Iranica*. 2015 Oct 6:454-61.
- Leylabadlo HE, Asgharzadeh M, Aghazadeh M. Dissemination of carbapenemases producing Gram negative bacteria in the Middle East. *Iranian journal of microbiology*. 2015 Oct; 7(5):226.
- Ghotaslou R, Leylabadlo HE, Asl YM. Prevalence of antibiotic resistance in *Helicobacter pylori*: A recent literature review. *World journal of methodology*. 2015 Sep 9; 5(3):164.
- Leylabadlo HE, Kafil HS, Aghazadeh M, Hazratian T. Nosocomial oral myiasis in ICU patients: occurrence of three sequential cases. *GMS hygiene and infection control*. 2015; 10.
- Ghotaslou R, Leylabadlo HE. Diagnosis of Tuberculosis: Novel Laboratory Methods. *Razi Journal of Medical Sciences*. 2021 Mar 10; 27(12):10-22.
- Ghotaslou R, Pirzadeh T, Esmailkhani A, Bialvaei AZ, Leylabadlo HE. Recent advances in the diagnosis of *Helicobacter pylori* infection. *J. Sabzevar Univ. Med. Sci*. 2022 Jul 11; 29:179-94.
- Rahnemayan S, Leylabadlo HE, Sanaie S, Ghotaslou R. COVID-19 and Increasing Risk of Antimicrobial Resistance. *International Journal of Infection*. 2022 Jan 31; 9(1).
- Baghbaniavid S, Kafil HS, Farajniya S, Moaddab SR, Hosainzadegan H, Sefidan FY, Varshouchi M, Leylabadlo HE, Ghotaslou R. The Association of the Phylogenetic Typing of the *Klebsiella pneumoniae* Isolates with Antibiotic Resistance. *Emergency Medicine International*. 2021 Nov 5; 2021.
- Parsaei M, Sarafraz N, Moaddab SY, Leylabadlo HE. The importance of *Faecalibacterium prausnitzii* in human health and diseases. *New Microbes and New Infections*. 2021 Sep; 43.
- Hasani A, Dehghani L, Soltani E, Leylabadlo HE. Assessment of the Presence of Sas Family Genes and Their Relationship with Biofilm Formation among Clinical *Staphylococcus aureus* Isolates. *Pharmaceutical Sciences*. 2021 Dec 25; 29(1):46-51.
- Nezamzadeh F, Asadyun M, Anbiyaiee A, Sedighi M, Khalili Y, Leylabadlo HE, Esmailkhani A. Association of specific haplotype of tumor necrosis factor- $\alpha$  and interleukin-1 $\beta$  polymorphisms with *Helicobacter pylori* infection and gastric carcinogenesis. *Germs*. 2021 Dec; 11(4):554.
- Abbaszadeh F, Eslami N, Aghbash PS, Leylabadlo HE, Baghi HB. Bacteriophages: A Possible Choice for Treatment of Viral Respiratory Infections and COVID-19. *Current Respiratory Medicine Reviews*. 2021 Nov 1; 17(4):201-8.
- Sheykhsaran E, Leylabadlo HE, Alinezhad F, Feizi H, Bannazadeh Baghi H. A New Insight into Nosocomial Infections: a Worldwide Crisis. *Journal of Medical Microbiology and Infectious Diseases*. 2022 Jun 10; 10(2):64-74.
- Bahmani M, Chegini R, Ghanbari E, Sheykhsaran E, Aghbash PS, Leylabadlo HE, Moradian E, Houjaghan AM, Baghi HB. Severe acute respiratory syndrome coronavirus 2 infection: Role of interleukin-6 and the inflammatory cascade. *World Journal of Virology*. 2022 May 5; 11(3):113.

- Sheykhsaran E, Abbasi A, Leylabadlo HE, Sadeghi J, Mehri S, Mazraeh FN, Feizi H, Baghi HB. Gut microbiota and obesity: an overview of microbiota to microbial-based therapies. *Postgraduate Medical Journal*. 2022 Feb 9.
- Nezhadi J, Taghizadeh S, Khodadadi E, Yousefi M, Ganbarov K, Yousefi B, Leylabadlo HE, Asgharzadeh M, Tanomand A, Kazeminava F, Kafil HS. Antisense agents against antibiotic-resistant bacteria. *Current pharmaceutical biotechnology*. 2022.
- Ghotaslou R, Nabizadeh E, Memar MY, Law WM, Ozma MA, Abdi M, Yekani M, Kadkhoda H, Bafadam S, Ghotaslou A, Leylabadlo HE. The metabolic, protective, and immune functions of *Akkermansia muciniphila*. *Microbiological Research*. 2022 Oct 28:127245.

## **CONGRESS PRESENTATIONS**

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- Alterations of the Gut Dominant Bacterial phyla in Patients with Metabolic Syndrome (22th Congress of Gastroenterology and Liver Diseases of Iran)
- Study on Anti-biofilm activity of Azerbaijani Honey on Clinical Bacterial Isolates (7th International Congress of Laboratory and Clinic and 1st conference of Clinical irology, Tehran, Iran)
- Determination of pattern of antimicrobial resistance of pseudomonas strain isolated from patients in a university tertiary hospital, Tabriz (7th International Congress of Laboratory and Clinic and 1st conference of Clinical Virology, Tehran, Iran)
- Evaluation of brucellosis in Iran (The 8th International Congress on Clinical Microbiology, Oct, 2014, Tabriz, Iran)
- Tuberculosis drug resistance in Iran (The 8th International Congress on Clinical Microbiology, Oct, 2014, Tabriz, Iran)
- Viral Infections in Patients with Acute Respiratory Infections (16th International and Iranian Congress of Microbiology, Tehran, Iran Aug 25-27, 2015)
- Increasing the Prevalence of Carbapenem Resistant *Citrobacter freundii* Isolated from Blood Culture in Tabriz, Iran (16th International and Iranian Congress of Microbiology, Tehran, Iran. Aug 25-27, 2015)
- Prevalence and Antibiotic Susceptibility Pattern of Bacterial Isolates from Blood Culture in a Hospital, Tabriz (16th International and Iranian Congress of Microbiology, Tehran, Iran. Aug 25-27, 2015)
- Update on the Epidemiology of Tuberculosis in Iran (16th International and Iranian Congress of Microbiology, Tehran, Iran. Aug 25-27, 2015)
- Emergence of Colistin Resistance in the World (7th International Congress of Laboratory and Clinic and 1st conference of Clinical Virology, Tehran, Iran)
- Evaluation of Modified Hodge test versus Carba NP test for rapid detection of carbapenemase producing isolates (7th International Congress of Laboratory and Clinic and 1st conference of Clinical Virology, Tehran, Iran)
- Prevalence of Carbapenemases in the Middle East (7th International Congress of Laboratory and Clinic and 1st conference of Clinical Virology, Tehran, Iran)
- Prevalence of Human Papillomavirus (HPV) Infection among Iranian Women (Second Debatable Topics in Obstetrics, Gynecology and Infertility, "DTOGI" Congress)
- Antimicrobial resistance of bacteria in bloodstream infections isolated from Patients in a University Tertiary Hospital (5th Iranian Congress of Medical Bacteriology)
- *Helicobacter pylori* resistance to clarithromycin and metronidazole in Asia (5th Iranian Congress of Medical Bacteriology)
- The Role of Microbiome in Pancreatic Cancer (2nd International Laboratory Diagnostics Congress)
- Phenotypic and Genotypic Diagnosis of Carbapenem-Resistant Enterobacteriaceae (2nd International Laboratory Diagnostics Congress)

## AWARDS AND SCIENTIFIC HONORS

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- Award-winner Iran's National Elites Foundation (INEF) (2022)
- Award-winner Iran's National Elites Foundation (INEF) (2020)
- Award-winner best Ph.D. student in the 4th Grand Student Scientific Award, East Azerbaijan (2019)
- Award-winner best researcher of Tabriz University of Medical Sciences (Ph.D. candidate level) (2021)
- National Outstanding Researcher (2020)
- National Outstanding Researcher (2017)
- Member of talented students office of the Tabriz University of Medical Sciences, Ph.D. (2020)
- Member of talented students office of the Tabriz University of Medical Sciences, M.Sc. (2017)
- The first top student M.Sc. course (2016)
- Ranking sixth in the Ph.D. entrance exam (Ministry of Health of Iran) of Medical bacteriology (2017)

## TEACHING EXPERIENCE

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### Teaching:

#### Microbiology and bacteriology (theoretical and applied courses)

- **Doctoral level:** Medicine students, Dentistry Students
- **M.Sc. level:** Master students of Microbiology
- **B.Sc. level:** Medical Laboratory Sciences, Nursing, Midwifery, Microbiology

### Workshops:

#### Tabriz University of Medical Sciences

- Research methods
- Writing proposals
- Search electronic resources
- Writing scientific articles
- Review of scientific articles
- Bioinformatics
- Polymerase Chain Reaction

## **BOOKS**

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- Microbiology: A Laboratory Manual, 11th edition (translation)-2021
- Bailey & Scott's Diagnostic Microbiology (translation)-2017

## **MEMBERSHIP IN SCIENTIFIC SOCIETIES**

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- Iranian Society of Microbiology 2020-Present
- Medical Council of the Islamic Republic of Iran 2021-Present
- Associate Editor in Journal of Research in Clinical Medicine (JRCM) 2021-Present