

Sepideh Hasanzadeh *PhD, Microbiologist*

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Education:

2006 – 2010	(B.S.) Biology, Islamic Azad University of Mashhad.
2011 – 2014	(M.sc in Medical Microbiology) Faculty of Medicine, Tehran University of Medical Science.
2016 - present	(PhD in Bacteriology) Mashhad University of Medical Science.

Appointments:

2019-present	Associated professor of Medical Microbiology, Varastegan Institute for Medical Sciences, Mashhad, Iran
2012-2014	Fellow Researcher, Antimicrobial resistance research, Tehran University of Medical Sciences (TUMS)
2016-present	Fellow Researcher, Antimicrobial resistance and bioinformatics, Mashhad University of Medical Sciences (MUMS)

Professional service

2016- 2018	Working on the quality control programs in Ghaem and Emam-Reza hospitals, Mashhad University of Medical Sciences (MUMS).
2020- ۲۰۲۱	Working in coronavirus laboratory at Emam-reza hospital Mashhad University of Medical Sciences (MUMS).
2016-2017	Writing and collecting SOPs related to the Microbiology Laboratory in Ghaem and Emam-Reza hospitals, Mashhad University of Medical Sciences (MUMS).
2020-present	Writing and collecting SOPs related to the coronavirus laboratory in Ghaem and Emam-Reza hospitals, Mashhad University of Medical Sciences (MUMS).
2020-present	Responsible of student affairs in Department of Medical Laboratory Sciences, Varastegan Institute for Medical Sciences, Mashhad, Iran

Society membership

2016- present	Member of the Iranian Society of Microbiology
2019-present	Member of the Iranian Society for Clinical Bacteriology

Research interest

Antimicrobial activity and Antibiotic Resistance

Nosocomial infection (*MRSA, Acinetobacter, Enterobacter*)

Tuberculosis (*Epidemiology, new treatment, diagnosis and vaccine*)

Next generation sequencing and RNA-seq Analysis

Health care associated Infection (*Control, Molecular Epidemiology*)

System biology

Publication

Articles

Available at: ORCID iD <https://orcid.org/0000-0001-6287-0800>

Also Available at **ResearcherID: H-6333-2018** URL: <http://www.researcherid.com/rid/H63332018>

Also Available at Google Scholar URL: <https://scholar.google.com/citations?user=Srrs9P4AAAAJ&hl=en>

- Case series: Reinfection of recovered SARS CoV-2 patients for the third time. *Hasanzadeh S, Shariatmaghani SS, Vakilian A, Javan A, Rahmani M, Ganjloo S, Jangi M, Amel Jamehdar S. Clinical Case Reports. 2021 Oct;9(10):e04936.*
- Presence of SARS-CoV-2 in plural effusion with COVID-19 patients. *Ataee Z, Hasanzadeh S, Mehri A, Sayadi M, Ataee L, Amel Jamehdar S. Clinical Case Reports. 2021 May;9(5):e04130.*
- A-4year Study on Antimicrobial Susceptibility Trends of Nosocomial Infections in a Mashhad Referral Hospital, Mashhad, Iran. *Khammar M, Hassanzadeh S, Tara F, Siahsar M, Tahmasbi F, Keikha M, Ghazvini K. Reviews in Clinical Medicine. 2021 Apr 1;8(2).*
- Efficacy and safety of convalescent plasma therapy in severe COVID-19 patients with acute respiratory distress syndrome. *Allahyari A, Seddigh-Shamsi M, Mahmoudi M, Jamehdar SA, Amini M, Mozdourian M, Javidarabshahi Z, Abadi SE, Amini S, Sedaghat A, Emadzadeh M. International Immunopharmacology. 2021 Apr 1;93:107239.*
- Phenotypic and molecular characterization of antimicrobial resistance in clinical species of Enterobacter, Serratia, and Hafnia in Northeast Iran. *Rizi KS, Hasanzade S, Soleimanpour S, Youssefi M, Jamehdar SA, Ghazvini K, Safdari H, Farsiani H. Gene Reports. 2021 Dec 1;25:101352.*
- Detection of SARS-coronavirus-2 in the central nervous system of patients with severe acute respiratory syndrome and seizures. *Rezaeitalab F, Jamehdar SA, Sepehrinezhad A, Rashidnezhad A, Moradi F, Fard FS, Hasanzadeh S, Razavi ME, Gorji A, Negah SS. Journal of neurovirology. 2021 Apr;27(2):348-53.*
- AdeG efflux pump as the main Tigecycline resistance in Acinetobacter baumannii. *Abbas JE, Salimizand H, Hassanzadeh S, Ramazanzadeh R. Gene Reports. 2020, 5:100689.*
- Anti-Pseudomonas aeruginosa Activity of Metal Schiff Base Complex and Probiotics Against Planktonic-and Biofilm-Growing Cells. *Hassanzadeh S, Ebrahimi S, Ganjloo S, Jamehdar SA, Dolatabadi S.. Anti-Infective Agents. 2021 Apr 1;19(2):182-91.*
- A report of antibiotic restriction policy in Ghaem university hospital, Mashhad, Northea. *Sepideh Hasanzadeh, Ali Mehri, Mahya Manouchehri, Sara Ganjloo, Mahin Sadat Shahabifar, Kiarash Ghazvini. Clinical Epidemiology and Global Health. 2020.*
- Epidemiology of efflux pumps genes mediating resistance among Staphylococcus aureus; A systematic review. *Sepideh Hassanzadeh, Sara ganjloo, Mohammad Reza Pourmand, Rahil Mashhadi, Kiarash Ghazvinia. Microbial pathogenesis. 2020, 1;139:103850.*

- **Warning: spread of NDM-1 in two border towns of Iran.** Armin S, Fallah F, Azimi L, Kafil HS, Ghazvini K, Hasanzadeh S, Karimi A. *Cellular and Molecular Biology*. 2018, 30;64(10):125-9.
- Frequency of efflux pump genes mediating ciprofloxacin and antiseptic resistance in methicillin-resistant *Staphylococcus aureus* isolates. Hassanzadeh S, Mashhadi R, Yousefi M, Askari E, Saniei M, Pourmand MR. *Microb Pathog*. 2017 Oct; 111:71-74. doi: 10.1016/j.micpath.2017.08.026. Epub 2017 Aug 18.
- **TENT: A Rapid DNA Extraction Method of *Staphylococcus aureus*.** Sepide HASSANZADEH, Mohammad Reza POURMAND, Davoud AFSHAR, Sanaz DEHBASHI, and Rahil MASHHADI. *Iran J Public Health*. 2016 Aug; 45(8): 1093–1095.
- Comparison of four diagnostic methods for detection of methicillin resistant *Staphylococcus aureus*. Mohammad Reza Pourmand, Sepide Hassanzadeh, Rahil Mashhadi, and Emran Askari. *Iran J Microbiol*. 2014 Oct; 6(5): 341–344.
- Frequency and Antimicrobial Resistance Patterns of Methicillin-Resistant *Staphylococcus aureus* in Tehran. Sepide Hassanzadeh, MohammadReza Pourmand, Azar Hadadi, Keramat Nourijeylani, Masoud Yousefi, Rahil Mashhadi, Emran Askari. *Journal of Medical Bacteriology* 2013. 2(3-4):41-46.

Books

- Guideline of bacterial preservation and other microorganism 2019
- Guidelines for the screening, care and treatment of persons with chronic hepatitis C infection 2019
- Identification and detection of bacteria 2020

Submitted Genes

A Gene and Nucleotide available at NCBI URL accession numbers KJ909760.1

Presentations (Abstracts in meetings, Seminar & Congresses)

- **Frequency and Antimicrobial Resistance Patterns of Methicillin-Resistant *Staphylococcus aureus* in Tehran**, Mohammad Reza Pourmand, Sepide Hassanzadeh, Rahil Mashhadi, the 3th International Conference on Antimicrobial Research. Oct 1-3, 2014, Madrid, Spain (poster).
- **Comparison of Four Diagnostic Methods for Detection of Methicillin Resistant *Staphylococcus aureus***, Sepide Hassanzadeh, Mohammad Reza Pourmand, Emran Askari, 15th international Iranian congress of microbiology, august 26-28, 2014, Tehran, Iran (poster)
- Participated in 2th Iranian congress of medical bacteriology. Oct 2-4, 2013.
- **Gut Dysbiosis is Isolated to Multiple Sclerosis**, Sepide Hassanzadeh, Zahra Khangi, 20th international congress of microbiology, 2021

Undergraduate & Postgraduate teaching experience

For M.Sc. students in Microbiology (MUMS), biosafety in the laboratory 2016-2019.

For medical, dentistry and pharmacy students (MUMS), 2016-present: Practical Microbiology

For Ph.D, student in bacteriology (MUMS), next- generation sequencing and bioinformatics 2018-present

For bachelor student in lab medicine (VUMS), 2020-present: biosafety in the laboratory

For bachelor student in lab medicine (VUMS), 2020-present: Microbiology

For bachelor student in lab medicine (VUMS), 2020-present: Bacteriology

For bachelor student in lab medicine (VUMS), 2020-present: Practical Microbiology

For bachelor student in lab medicine (VUMS), 2020-present: Practical Bacteriology

For bachelor student in lab medicine (VUMS), 2020-present: Familiarity with pathogens

Technical Experience (Summary of Experience)

Preparation of RNA-seq and NGS samples, Molecular biology and genetics, Cell culture, PCR, Real-time PCR, Objectives-oriented Project Planning.

NGS, RNA-seq, thorough experience of Bioinformatics and some computer software as office, statistical software as SPSS, and some others which applicable in molecular biology, Good experience in using electronic databases.

