

Scientific Curriculum Vitae

Personal Data

Full Name: Mohsen Heidary

Nationality: Iranian

Birth: December 20, 1989, Talesh, Guilan, Iran

Address: Department of Laboratory Sciences, School of Paramedical Sciences, Sabzevar
University of Medical Sciences, Sabzevar, Iran

Email: mohsenheidary40@gmail.com



Language

Persian: native language

English: good

Education

2016-2020

Ph.D in Medical Microbiology

Iran University of Medical Sciences, Tehran, Iran.

Thesis

Molecular detection of *acr A*, *acr B*, *qep A*, and *aac (6')-Ib-cr* genes in *Klebsiella pneumoniae* strains isolated from patients referred to Shahid Beheshti University of Medical Sciences

2014-2016

Msc. in Medical Microbiology

Shahid Beheshti University of Medical Sciences, Tehran, Iran.

Thesis

Evaluation of antibacterial effects of colloidal solution of zinc oxide and silver nanoparticles against MDR and XDR strains of *Mycobacterium tuberculosis*

2010-2014

B.Sc. in Medical Laboratory Sciences

Guilan University of Medical Sciences, Guilan, Iran

Employment

- 2016-2021** Laboratory Technician at Taleghani and Loghman Hospitals., Tehran, Iran
- 2021-2023** Assistant Professor in Medical Microbiology at Sabzevar University of Medical Sciences, Sabzevar, Iran

Publications

Published Papers

1. **Heidary M**, Sholeh M, Asadi A, Khah SM, Kheirabadi F, Saeidi P, Darbandi A, Taheri B, Ghanavati R. Prevalence of tigecycline resistance in methicillin-resistant *Staphylococcus aureus*: a systematic review and meta-analysis. *Diagnostic Microbiology and Infectious Disease*. 2024.
2. Shirani M, Shariati S, Bazdar M, Sojoudi Ghamnak F, Moradi M, Shams Khozani R, Taki E, Arabsorkhi Z, **Heidary M***, Eskandari DB. The immunopathogenesis of *Helicobacter pylori*-induced gastric cancer: a narrative review. *Frontiers in Microbiology*. 2024.
3. Ghasemi F, Yamchi JK, **Heidary M**, Karami-Zarandi M, Akrami S, Maleki A, Khoshnood S, Kazemian H. Effects of non-tuberculous mycobacteria on BCG vaccine efficacy: A systematic review. *Journal of Clinical Tuberculosis and Other Mycobacterial Diseases*. 2024.
4. **Heidary M**, Dashtbin S, Asadi A, Asadollahi P, Khatib A, Ebrahimi MA, Ghanbari Z, Darbandi A, Ghanavati R, Pakzad R. Prevalence of linezolid resistance in *Streptococcus pneumoniae* isolates: a systematic review and meta-analysis. *Future Microbiology*. 2024.
5. **Heidary M**, Shariati S, Nourigheimasi S, Khorami M, Moradi M, Motahar M, Bahrami P, Akrami S, Kaviar VH. Mechanism of action, resistance, interaction, pharmacokinetics, pharmacodynamics, and safety of fostemsavir. *BMC Infectious Diseases*. 2024.
6. Hajizadeh M, Binabaj MM, Asadi A, Abdi M, Shakiba A, Beig M, **Heidary M***, Sholeh M. Prevalence of HCV among patients with HIV in Iran: A systematic review and meta-analysis. *Vacunas (English Edition)*. 2024..
7. Anvari HZ, Binabaj MM, Asadi A, Abdi M, Shakiba A, Heidary M, Sholeh M. Epidemiology of HBV-HCV Coinfection Among Iranian Patients: a Systematic Review and Meta-Analysis. *Clinical Laboratory*. 2023.
8. Haddadi MH, Khoshnood S, Koupaei M, **Heidary M**, Moradi M, Jamshidi A, Behrouj H, Movahedpour A, Maleki MH, Ghanavati R. Evaluating the incidence of ampC- β -lactamase genes, biofilm formation, and antibiotic resistance among hypervirulent and classical *Klebsiella pneumoniae* strains. *Journal of Applied Microbiology*. 2023.
9. Khoshnood S, Pakzad R, Kaviar VH, Hashemian M, Karamollahi S, Sadeghifard N, Heidarizadeh H, Moradi

M, Maleki A, **Heidary M**, Abdi M. Global Estimate of Clarithromycin Resistance in Clinical Isolates of *Helicobacter pylori*: a Systematic Review and Meta-Analysis. *Clinical Laboratory*. 2023.

10. Shokri F, Shariati A, Veisari AK, Kianezhad A, Sheidaei S, Alamian AA, Sadeghi H, **Heidary M***. Fatal vanishing bile duct syndrome in Iranian patient with Hodgkin's lymphoma. *Clinical Case Reports*. 2023.

11. Shirani M, Pakzad R, Haddadi MH, Akrami S, Asadi A, Kazemian H, Moradi M, Kaviar VH, Zomorodi AR, Khoshnood S, Shafieian M, **Heidary M***. The global prevalence of gastric cancer in *Helicobacter pylori*-infected individuals: a systematic review and meta-analysis. *BMC Infectious Diseases*. 2023.

12. **Heidary M**, Taki E, Ghanavati R, Navidifar T, Moghadamnia M. EbangaTM: The most recent FDA-approved drug to treat Ebola. *Frontiers in Pharmacology*. 2023.

13. Shokri F, Bahrainian S, Tajik F, Rezvani E, Shariati A, Nourigheimasi S, Shahrehabaki ES, Ebrahimi M, Shamoon F, **Heidary M***. The potential role of telemedicine in the infectious disease pandemic with an emphasis on COVID-19: A narrative review. *Health Science Reports*. 2023.

14. Khoshnood S, Sadeghifard N, Mahdian N, **Heidary M**, Mahdian S, Mohammadi M, Maleki A, Haddadi MH. Antimicrobial resistance and biofilm formation capacity among *Acinetobacter baumannii* strains isolated from patients with burns and ventilator-associated pneumonia. *Journal of Clinical Laboratory Analysis*. 2023.

15. Mousavi SF, Ebrahimi M, Moghaddam SA, Moafi N, Jafari M, Tavakolian A, **Heidary M***. Evaluating the characteristics of patients with SARS-CoV-2 infection admitted during COVID-19 peaks: A single-center study. *Vacunas*. 2023.

16. Shokri F, Rezapoor S, Najafi M, Asadi M, Abolhassani M, Moieneddin MH, Ashrafi AM, Gholipour N, Naderi P, Charati JY, Alizadeh-Navaei R **Heidary M***. Efficacy of drug regimen with and without oseltamivir in hospitalized patients with COVID-19: A retrospective study. *Vacunas*. 2022.

17. Jafari M, Akbari M, Navidkia M, Dashtbin S, Mousavi SF, **Heidary M***, Khoshnood S. Comparison of clinical, radiological and laboratory findings in discharged and dead patients with COVID-19. *Vacunas*. 2022.

18. Khoshnood S, Ghanavati R, Shirani M, Ghahramanpour H, Sholeh M, Shariati A, Sadeghifard N, **Heidary M***. Viral vector and nucleic acid vaccines against COVID-19: A narrative review. *Frontiers in microbiology*. 2022.

19. Taki E, Soleimani F, Asadi A, Ghahramanpour H, Namvar A, **Heidary M***. Cabotegravir/Rilpivirine: the last FDA-approved drug to treat HIV. *Expert Review of Anti-infective Therapy*. 2022.

20. **Heidary M**, Kaviar VH, Shirani M, Ghanavati R, Motahar M, Sholeh M, Ghahramanpour H. Khoshnood S A comprehensive review of the protein subunit vaccines against COVID-19. *Frontiers in Microbiology*. 2022.

21. **Heidary M**, Azimi T, Khoshnood S, Asadi A, Mahmoudi H, Hassan Kaviar V, Hallajzadeh M, Nasiri MJ. Linezolid resistance in multi-drug resistant *Mycobacterium tuberculosis*: a systematic review and meta-analysis. *Frontiers in Pharmacology*. 2022.

22. Darbandi A, Alamdary SZ, Koupaei M, Ghanavati R, **Heidary M***, Talebi M. Evaluation of immune responses to *Brucella* vaccines in mouse models: A systematic review. *Frontiers in Veterinary Science*. 2022

23. Mousavi SF, Ebrahimi M, Moghaddam SA, Moafi N, Jafari M, Tavakolian A, **Heidary M***. Evaluating the characteristics of patients with SARS-CoV-2 infection admitted during COVID-19 peaks: A single-center

study. *Vacunas*. 2022

24. Khoshnood S, Ghanavati R, Shirani M, Ghahramanpour H, Sholeh M, Shariati A, Sadeghifard N, **Heidary M***. Viral Vector and Nucleic Acid Vaccines against COVID-19: A Narrative Review. *Frontiers in Microbiology*. 2022
25. **Heidary M**, Dashtbin S, Ghanavati R, Mahdizade Ari M, Bostanghadiri N, Darbandi A, Navidifar T, Talebi M. Evaluation of brucellosis vaccines: A comprehensive review. *Frontiers in Veterinary Science*. 2022.
26. Shariati A, Didehdar M, Razavi S, **Heidary M***, Soroush F, Chegini Z. Natural Compounds: A Hopeful Promise as an Antibiofilm Agent against *Candida* Species. *Frontiers in Pharmacology*. 2022.
27. Taki E, Soleimani F, Asadi A, Ghahramanpour H, Namvar A, **Heidary M***. Cabotegravir/Rilpivirine: the last FDA-approved drug to treat HIV. *Expert Review of Anti-infective Therapy*. 2022
28. Jafari M, Akbari M, Navidkia M, Dashtbin S, Mousavi SF, **Heidary M***, Khoshnood S. Comparison of clinical, radiological and laboratory findings in discharged and dead patients with COVID-19. *Vacunas*. 2022.
29. **Heidary M**, Ebrahimi Samangani A, Kargari A, Kiani Nejad A, Yashmi I, Motahar M, Taki E, Khoshnood S. Mechanism of action, resistance, synergism, and clinical implications of azithromycin. *Journal of Clinical Laboratory Analysis*. 2022.
30. Kaffashian MR, Shirani M, Koupaei M, Sadeghifard N, Ahmadi I, Mozafari A, Nazari A, **Heidary M***, Khoshnood S. Clinical Manifestations, Imaging Procedures and Laboratory Parameters among Hospitalized Patients with COVID-19 in Ilam Province, Western Iran. *Ethiopian Journal of Health Sciences*. 2022.
31. Koupaei M, Shadab Mehr N, Mohamadi MH, Asadi A, Abbasimoghaddam S, Shekartabar A, **Heidary M***, Shokri F. Clinical symptoms, diagnosis, treatment, and outcome of COVID-19-associated encephalitis: A systematic review of case reports and case series. *Journal of Clinical Laboratory Analysis*. 2022.
32. Khoshnood S, Arshadi M, Akrami S, Koupaei M, Ghahramanpour H, Shariati A, Sadeghifard N, **Heidary M***. An overview on inactivated and live-attenuated SARS-CoV-2 vaccines. *Journal of Clinical Laboratory Analysis*. 2022.
33. Asadi A, Shadab Mehr N, Mohamadi MH, Shokri F, **Heidary M***, Sadeghifard N, Khoshnood S. Obesity and gut–microbiota–brain axis: A narrative review. *Journal of Clinical Laboratory Analysis*. 2022.
34. Koupaei M, Mohamadi MH, Yashmi I, Shahabi AH, Shabani AH, **Heidary M***, Khoshnood S. Clinical manifestations, treatment options, and comorbidities in COVID-19 relapse patients: A systematic review. *Journal of Clinical Laboratory Analysis*. 2022.
35. Naimi A, Yashmi I, Jebeleh R, Imani Mofrad M, Azimian Abhar S, Jannesar Y, **Heidary M***, Pakzad R. Comorbidities and mortality rate in COVID-19 patients with hematological malignancies: A systematic review and meta-analysis. *Journal of Clinical Laboratory Analysis*. 2022.
36. Mahdizade Ari M, Mohamadi MH, Shadab Mehr N, Abbasimoghaddam S, Shekartabar A, **Heidary M***, Khoshnood S. Neurological manifestations in patients with COVID-19: A systematic review and meta-analysis. *Journal of Clinical Laboratory Analysis*. 2022.
37. Darbandi A, Koupaei M, Navidifar T, Shahroodian S, **Heidary M***, Talebi M. Brucellosis control methods with an emphasis on vaccination: a systematic review. *Expert Review of Anti-infective Therapy*. 2022.

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38. **Heidary M**, Shirani M, Moradi M, Goudarzi M, Pouriran R, Rezaeian T, Khoshnood S. Tuberculosis challenges: Resistance, co-infection, diagnosis, and treatment. *European Journal of Microbiology and Immunology*. 2022.
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39. **Heidary M**, Asadi A, Noorbakhsh N, Dashtbin S, Asadollahi P, Dranbandi A, Navidifar T, Ghanavati R. COVID-19 in HIV-positive patients: a systematic review of case reports and case series. *Journal of Clinical Laboratory Analysis*. 2022.
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40. Khoshnood S, Shirani M, Dalir A, Moradi M, Haddadi MH, Sadeghifard N, Birjandi FS, Yashmi I, **Heidary M***. Antiviral effects of azithromycin: A narrative review. *Biomedicine & Pharmacotherapy*. 2022.
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41. Khoshnood S, Shirani M, Dalir A, Moradi M, Haddadi MH, Sadeghifard N, Birjandi FS, Yashmi I, **Heidary M***. Antiviral effects of azithromycin: A narrative review. *Biomedicine & Pharmacotherapy*. 2022.
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42. Khoshnood S, **Heidary M**, Hashemi A, Shahi F, Saki M, Kouhsari E, Eslami G, Goudarzi H. Involvement of the AcrAB Efflux Pump in Ciprofloxacin Resistance in Clinical *Klebsiella Pneumoniae* Isolates. *Infectious Disorders-Drug Targets*. 2021.
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43. Koupaei M, Naimi A, Moafi N, Mohammadi P, Tabatabaei FS, Ghazizadeh S, **Heidary M***, Khoshnood S. Clinical characteristics, diagnosis, treatment, and mortality rate of TB/COVID-19 coinfectetd patients: a systematic review. *Frontiers in medicine*. 2021.
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44. **Heidary M**, Khoshnood S, Taki E, Kaviar VH, Haddadi MH, Farshadzadeh Z, Kouhsari E, Goudarzi M, Sadeghifard N. Mechanism of action, resistance, synergism, and clinical implications of delamanid against multi drug-resistant *Mycobacterium tuberculosis*. *Frontiers in microbiology*. 2021.
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45. **Heidary M**, Nasiri MJ, Mirsaeidi M, Jazi FM, Khoshnood S, Drancourt M, Darban-Sarokhalil D. *Mycobacterium avium* complex infection in patients with human immunodeficiency virus: A systematic review and meta-analysis. *Journal of cellular physiology*. 2019.
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46. **Heidary M**, Bostanabad SZ, Amini SM, Jafari A, Nobar MG, Ghodousi A, Kamalzadeh M, Darban-Sarokhalil D. The anti-mycobacterial activity of Ag, ZnO, and Ag-ZnO nanoparticles against MDR-and XDR-*Mycobacterium tuberculosis*. *Infection and Drug Resistance*. 2019.
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47. Nasiri MJ, **Heidary M**, Goudarzi H, Tabarsi P. Trends in multidrug-resistant tuberculosis in Tehran, Iran: an analysis of published data. *GMS Hygiene and Infection Control*. 2019.
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48. Sheikh AF, Moosavian M, Abdi M, **Heidary M**, Shahi F, Jomehzadeh N, Seyed-Mohammadi S, Saki M, Khoshnood S. Prevalence and antimicrobial resistance of *Shigella* species isolated from diarrheal patients in Ahvaz, southwest Iran. *Infection and Drug Resistance*. 2019.
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49. Bahramian A, Khoshnood S, Shariati A, Doustdar F, Chirani AS, **Heidary M**. Molecular characterization of the *pilS2* gene and its association with the frequency of *Pseudomonas aeruginosa* plasmid *pKLC102* and *PAPI-1* pathogenicity island. *Infection and Drug Resistance*. 2019.
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50. Khoshnood S, **Heidary M**, Asadi A, Soleimani S, Motahar M, Savari M, Saki M, Abdi M. A review on mechanism of action, resistance, synergism, and clinical implications of mupirocin against *Staphylococcus aureus*. *Biomedicine & Pharmacotherapy*. 2019.
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51. Khoshnood S, **Heidary M**, Haeili M, Drancourt M, Darban-Sarokhalil D, Nasiri MJ, Lohrasbi V. Novel vaccine candidates against *Mycobacterium tuberculosis*. *International journal of biological macromolecules*.
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2018.

52. Nasiri MJ, **Heidary M**, Azimi T, Goudarzi H, Tabarsi P, Darban-Sarokhalil D, Feizabadi MM. Mycobacterium simiae pulmonary disease in Iran: systematic review and meta-analysis. *New microbes and new infections*. 2018.
53. Mirnejad R, Asadi A, Khoshnood S, Mirzaei H, **Heidary M**, Fattorini L, Ghodousi A, Darban-Sarokhalil D. Clofazimine: A useful antibiotic for drug-resistant tuberculosis. *Biomedicine & Pharmacotherapy*. 2018.
54. Amin M, Mohammadi AV, **Heidary M**, Khoshnood S. Antibacterial and anticancer activity of a bioflavonoid fractionated from *Allium Ascalonicum*. *Archives of Advances in Biosciences*. 2018.
55. Chirani AS, Majidzadeh R, Pouriran R, **Heidary M**, Nasiri MJ, Gholami M, Goudarzi M, Omrani VF. The effect of in silico targeting *Pseudomonas aeruginosa* patatin-like protein D, for immunogenic administration. *Computational biology and chemistry*. 2018.
56. **Heidary M**, Nasiri MJ, Dabiri H, Tarashi S. Prevalence of drug-resistant *Klebsiella pneumoniae* in Iran: a review article. *Iranian journal of public health*. 2018.
57. Lohrasbi V, Talebi M, Bialvaei AZ, Fattorini L, Drancourt M, **Heidary M**, Darban-Sarokhalil D. Trends in the discovery of new drugs for *Mycobacterium tuberculosis* therapy with a glance at resistance. *Tuberculosis*. 2018.
58. Bahramian A, Eslami G, Hashemi A, Tabibi A, **Heidary M**. Emergence of fosfomycin resistance among isolates of *Escherichia coli* harboring extended-spectrum and AmpC β -lactamases. *Acta microbiologica et immunologica Hungarica*. 2018.
59. Mirnejad R, **Heidary M**, Bahramian A, Goudarzi M, Pournajaf A. Evaluation of Polymyxin B susceptibility profile and detection of drug resistance genes among *Acinetobacter baumannii* Clinical Isolates in Tehran, Iran during 2015–2016. *Mediterranean Journal of Hematology and Infectious Diseases*. 2018.
60. **Heidary M**, Khosravi AD, Khoshnood S, Nasiri MJ, Soleimani S, Goudarzi M. Daptomycin. *Journal of Antimicrobial Chemotherapy*. 2018.
61. **Heidary M**, Goudarzi H, Hashemi A, Eslami G, Goudarzi M, Chirani AS, Amraei S. Prevalence of quinolone resistance genes in *Klebsiella pneumoniae* strains isolated from hospitalized patients during 2013-2014. *Archives of Pediatric Infectious Diseases*. 2017.
62. Khoshnood S, **Heidary M**, Mirnejad R, Bahramian A, Sedighi M, Mirzaei H. Drug-resistant gram-negative uropathogens: A review. *Biomedicine & Pharmacotherapy*. 2017.
63. Khoshnood S, Eslami G, Hashemi A, Bahramian A, **Heidary M**, Yousefi N, Mohammadi F, Gholami M. Distribution of aminoglycoside resistance genes among *Acinetobacter baumannii* strains isolated from burn patients in Tehran, Iran. *Archives of Pediatric Infectious Diseases*. 2017.
64. **Heidary M**, Salimi Chirani A, Khoshnood S, Eslami G, Atyabi SM, Nazem H, Fazilati M, Hashemi A, Soleimani S. Molecular detection of aminoglycoside-modifying enzyme genes in *Acinetobacter baumannii* clinical isolates. *Acta microbiologica et immunologica Hungarica*. 2017.
65. Hakemi-Vala M, Eslamzadeh A, Bejestani FB, Asgarpanah J, **Heidary M**, Khoshnood S. Preliminary evaluation of the antimicrobial activity of total extract and fractions of chloroform, methanol, and aqueous

from the aerial parts of *Salvia aegyptiaca*. *Avicenna Journal of Clinical Microbiology and Infection*. 2017.

66. Sedighi M, Halajzadeh M, Ramazanzadeh R, Amirmozafari N, **Heidary M**, Pirouzi S. Molecular detection of β -lactamase and integron genes in clinical strains of *Klebsiella pneumoniae* by multiplex polymerase chain reaction. *Revista da Sociedade Brasileira de Medicina Tropical*. 2017.

67. **Heidary M**, Goudarzi H, Hashemi A, Eslami G, Khoshnood S, Amraei S. Prevalence of genes encoding AcrAB and QepA efflux pumps among *Klebsiella pneumoniae* strains isolated from patients hospitalized in selected hospitals in Tehran City, Iran. *Qom University of Medical Sciences Journal*. 2017.

68. **Heidary M**, Bahramian A, Hashemi A, Goudarzi M, Omrani VF, Eslami G, Goudarzi H. Detection of *acrA*, *acrB*, *aac (6')*-Ib-cr, and *qepA* genes among clinical isolates of *Escherichia coli* and *Klebsiella pneumoniae*. *Acta microbiologica et immunologica Hungarica*. 2017.

69. Hakemi-Vala M, Mehrara M, Pourramezan M, Rahimifard JA, Khoshnood S, **Heidary M**. Comparison the antimicrobial effects of the flowering aerial parts of *Glaucium vitellinum* Boiss. and Buhse and *Gaillonia aucheri* Jaub. and Spach. *Novelty in Biomedicine*. 2017.

70. Tarashi S, **Heidary M**, Dabiri H, Nasiri M. Prevalence of drug-resistant *Pseudomonas aeruginosa* in Iranian burned patients: A meta-analysis. *Archives of Trauma Research*. 2017.

71. Gholami M, Haghshenas M, Moshiri M, Razavi S, Pournajaf A, Irajian G, **Heidary M**. Frequency of 16S rRNA methylase and aminoglycoside-modifying enzyme genes among clinical isolates of *Acinetobacter baumannii* in Iran. *Iranian Journal of Pathology*. 2017.

72. **Heidary M**, Nasiri MJ. Why has MDR-TB prevalence increased in Iran?. *Journal of Clinical Tuberculosis and Other Mycobacterial Diseases*. 2016.

73. Nasiri MJ, Imani Fooladi AA, Dabiri H, Pormohammad A, Salimi Chirani A, Dadashi M, Houry H, **Heidary M**, Feizabadi MM. Primary ethambutol resistance among Iranian pulmonary tuberculosis patients: a systematic review. *Therapeutic Advances in Infectious Disease*. 2016.

74. Roshani M, **Heidary M**, Goudarzi H, Hashemi A, Eslami G, Yousefi N. Investigating the Antibacterial Effect of Methanol and Acetone Extracts of *Urtica Dioica* and *Zataria Multiflora* against Metallo β -lactamase Producing *Pseudomonas aeruginosa*. *Journal of Ilam University of Medical Sciences*. 2016.

75. **Heidary M**, Bahramian A, Goudarzi H, Eslami G, Hashemi A, Khoshnood S. To study the association between AcrAB and Qep A efflux pumps and ciprofloxacin resistance among *Escherichia coli* and *Klebsiella pneumoniae* clinical strains. *Arak Med Univ J*. 2016.

76. Goudarzi H, Hashemi A, Fatemeh F, Noori M, Erfanimanesh S, Yosefi N, **Heidary M**, Khoshnood S, Houry HR. Detection of *bla*DIM, *bla*AIM, *bla*GIM, *bla*NDM and *bla*VIM Genes among *Acinetobacter baumannii* strains isolated from hospitalized patients in Tehran hospitals, Iran. *Iranian Journal of Medical Microbiology*. 2016.

77. **Heidary M**, Hashemi A, Goudarzi H, Khoshnood S, Roshani M, Azimi H, Goudarzi M. The antibacterial activity of Iranian plants extracts against metallo β -lactamase producing *Pseudomonas aeruginosa* strains. *Archives of Advances in Biosciences*. 2016.

78. **Heidary M**, Nasiri MJ. Why has HIV/AIDS prevalence increased in Iran?. *Clinical Infectious Diseases*. 2016.

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79. Hakemi-Vala M, Makhmor M, Kobarfar F, Kamalinejad M, **Heidary M**, Khoshnood S. Investigation of antimicrobial effect of *Tribulus terrestris* L. against some gram positive and negative bacteria and candida spp. *Novelty Biomed.* 2014.
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Book

1. An overview of diagnostic methods in the clinical laboratory (Compilation-in Persian)
2. An overview of Medical Virology (Compilation-in Persian)
3. An overview of the principles and techniques of biotechnology (Compilation-in Persian)
4. Bailey & Scott's Diagnostic Microbiology, 17th Edition (Translation-in Persian)

Gene registration in NCBI gene bank

1. aminoglycoside-(3)-N-acetyltransferase II, partial [*Klebsiella pneumoniae*]
2. aminoglycoside-(3)-N-acetyltransferase II, partial [*Klebsiella pneumoniae*]
3. *Klebsiella pneumoniae* strain 2 aminoglycoside-(3)-N-acetyltransferase II (aac) gene, partial cds
4. *Klebsiella pneumoniae* strain 1 aminoglycoside-(3)-N-acetyltransferase II (aac) gene, partial cds

Conference Proceedings

1. Detection of Metallo- β -lactamase genes among *Pseudomonas aeruginosa* strains isolated from burnt patients
2. Detection of blaCTX-M, blaTEM, blaSHV genes in *Klebsiella pneumoniae* strains isolated from two hospitals of Tehran, Iran
3. Detection of blaDIM, blaGIM and blaAIM genes among *Acinetobacter baumannii* strains isolated

from three Hospitals of Tehran, Iran

4. Antibacterial effects of Methanolic Extracts of *Heracleum persicum*, *Myrtus communis*, *Ferula assafoetida*, *Peganum harmala* and *Camelia sinensis* on *Pseudomonas aeruginosa* strains
5. Knowledge Regarding Infection Control processing Among Dental Students in Tehran, Iran
6. The role of bacterial infection in development of mental disorders
7. A Survey on the antimicrobial effect of methanolic extract and alkaloid fractions of aerial parts of *Glaucium vitellinum* against different bacterial strains and *Candida* spp with Disk diffusion and MIC
8. Antibacterial effects of methanolic and acetonetic extraction of *Urtica Dioica* plant on IMP and VIM – producing *Pseudomonas aeruginosa* strains
9. Distribution of clinical symptoms in patients with diarrhea caused by *Campylobacter* species referred to Tehran hospitals
10. Detection of *Helicobacter Pylori* and *Chlamydia pneumoniae* in Atherosclerotic Plaques of Patients in Iran; a Meta-analysis study from 2002 to 2013
11. Investigation of antimicrobial activity of total extraction and fractions of twigs of *Gailonia aucheri* against different bacterial strains and *Candida* spp
12. Microbial analysis of vegetables in Iran during past 5 years
13. Prevalence of quinolone resistance genes in *Klebsiella pneumoniae* and *Escherichia coli* isolates
14. Distribution of quinolone resistance genes among clinical isolates of *Klebsiella pneumoniae*
15. Comparison of disk diffusion and cup plate methods in investigating antimicrobial effect of total extract of *Tribulus terrestris* L against some gram positive and negative bacteria and *candida* spp.
16. Tuberculosis vaccines
17. Effects of silver and zinc oxide nanoparticles against drug-resistant *Mycobacterium tuberculosis*
18. Mupirocin
19. Molecular detection and expression level of *acrA* and *acrB* genes in clinical isolates of *Klebsiella pneumoniae*

Laboratory Skills

- Antibiotic Resistance
- DNA extraction
- PCR
- Electrophoresis
- SDS-PAGE
- Real Time PCR

- RAPD-PCR
- RFLP-PCR
- Primer and probe designing
- ELISA
- Cell culture
- MTT test cell viability
- Culture and isolation of respiratory infectious agents
- Culture, detection and drug susceptibility testing of *Mycobacterium tuberculosis*

Peer reviewer of international journals

- Plos One
- Caspian Journal of Internal Medicine
- Gene report
- Iranian Journal of Basic Medical Sciences

Awards

1. Member of Iran's National Elites Foundation
2. Top researcher of Ministry of Health of Iran
3. Top student of Iran University of Medical Sciences
4. Member of Talent Academy of Iran University of Medical Sciences
5. Top researcher of Iran University of Medical Sciences
6. Winner of Iran's Alborz Foundation Award
7. Top student of the first stage of eleventh scientific Olympiad of Iranian medical students
8. Top researcher of Sabzevar University of Medical Sciences

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