

Curriculum Vitae

Personal Information

Full Name: Abed Zahedi Bialvaei

Date of Birth: 1990

Place of birth / Nationality: Rasht, Iran / Iranian

Position: Assistant Professor

Tel: 021-86703273

E-mail: Zahedi.a@iums.ac.ir; abedzahedi@gmail.com

Postal Address: Microbial Biotechnology Research Center, Faculty of Medicine, Iran University of Medical Sciences, Shahid Hemmat Highway, Tehran, 1449614535, Iran.



Links:



<https://scholar.google.com/citations?user=rh-fYCMAAAAJ&hl=en&oi=ao>



<https://pubmed.ncbi.nlm.nih.gov/?term=Abed+Zahedi+bialvaei&sort=date&size=200>



<https://www.scopus.com/authid/detail.uri?authorId=56582241000>



<https://www.researchgate.net/profile/Abed-Zahedi-Bialvaei-2>

Education

Feb 2016 – April 2021 PhD of Medical Microbiology

Iran University of Medical Sciences, microbiology, Tehrān, Iran

Thesis

Evaluation of passive immunization by production of monoclonal antibodies against recombinant antigens PlpD and PilQ -PilA DSL region of *Pseudomonas aeruginosa* in the murine burn wound sepsis

Jul 2014 – Feb 2016 MSc of Medical Microbiology

Tabriz University of Medical Sciences, Department of Microbiology and Virology, Tabriz, East Azerbaijan, Iran

Thesis

Investigation of TEM, SHV and CTX-M ESBLs in Klebsiella, Shigella and Serratia isolated from feaces of healthy carriers in treatment and training center of Emam Reza-Tabriz 1393

Nov 2010 – Feb 2014 BSc in Medical Laboratory Science

Guilan University of Medical Sciences, Department of Medical Laboratory Sciences, Rasht, Guilan, Iran

Languages Persian (Native), English (Advance)

Scientific Memberships American Society of Microbiology (ASM), since 2019

Iranian Society of Microbiology, since 2017

Publications

Books

Abed Zahedi bialvaei, Mansour Sedighi: *A practical guide to the Antimicrobial stewardship (in Persian)*. Noandishan ariakohan, 2018; ISBN: 978-600-829865-6

Abed Zahedi bialvaei, Milad Abdi, Aylin Esmailkhani: *Writing and Publishing Scientific Papers (in persian). Etminan publication (In press)*

Book Chapters

Abed Zahedi bialvaei, Hossein Samadi Kafil, Mohammad Ahangarzadeh Rezaee, Mohammad Rahbar, Mohammad Asgharzadeh: *The antimicrobial resistance situation in Iran: the national initiative and r&d to face AMR*. Antimicrobial Resistance & Infection Control 05/2018; 2018(1).

Journal Publications

1. **Abed Zahedi bialvaei**, Hossein Samadi kafil, Hamed Ebrahimzadeh Leylabadlo, Mohammad Asgharzadeh, Mohammad Aghazadeh: *Dissemination of Carbapenemases producing gram negative bacteria in the Middle East*. Iranian Journal of Microbiology 11/2015; 7(5):226-246.
2. Hamed Ebrahimzadeh Leylabadlo, **Abed Zahedi bialvaei**, Hossein Samadi kafil: *Brucellosis in Iran: Why Not Eradicated?*. Clinical Infectious Diseases 07/2015; DOI:10.1093/cid/civ646
3. **Abed Zahedi bialvaei**, Hossein Samadi kafil, Mohammad Asgharzadeh: *Role of treatment cost on transmission of MDR-TB into Iran*. Clinical Infectious Diseases 06/2015; 61(6):1029-1030. DOI:10.1093/cid/civ459
4. Mohammad Taghi Akhi, Reza Ghotaslou, Mohammad Asgharzadeh, Mojtaba Varshochi, Tahereh Pirzadeh, Mohammad Yousef Memar, **Abed Zahedi Bialvaei**, Hasan Seifi Yarijan Sofla, Naser Alizadeh: *Bacterial etiology and antibiotic susceptibility pattern of diabetic foot infections in Tabriz, Iran*. 02/2015; 10:Doc02. DOI:10.3205/dgkh000245
5. **Abed Zahedi bialvaei**, Hossein Samadi Kafil: *Colistin, Mechanisms and Prevalence of Resistance*. Current Medical Research and Opinion 01/2015; 31(4):707-721. DOI:10.1185/03007995.2015.1018989
6. Marzieh Aghazadeh, **Abed Zahedi Bialvaei**, Mohammad Aghazadeh, Fahimeh Kabiri, Negar Saliani, Mehdi Yousefi, Hossein Eslami, Hossein Samadi Kafil: *Survey of antibiofilm and antimicrobial effects of Zinger Officinale (in vitro study)*. Jundishapur Journal of Microbiology 12/2015; 2015(2). DOI:10.5812/jjm.30167
7. **Abed Zahedi bialvaei**, Hossein Samadi kafil, Mohammad Asgharzadeh, Mohammad Aghazadeh, Mehdi Yousefi: *CTX-M Extended-spectrum β -lactamase-producing Klebsiella spp, Salmonella spp, Shigella spp and Escherichia coli Isolates in Iranian Hospitals*. Brazilian Journal of Microbiology 11/2015; DOI:10.1016/j.bjm.2016.04.020

8. Behnaz Dahri Dahroud, Reza Rezai Mokarram, Mahmoud Sowti Khiabani, Hamed Hamishehkar, **Abed Zahedi bialvaei**, Mehdi Yousefi, Hossein Samadi Kafil: *Low intensity ultrasound increases the fermentation efficiency of Lactobacillus casei subsp.casei ATCC 39392.* International Journal of Biological Macromolecules 03/2016; 86.
DOI:10.1016/j.ijbiomac.2016.01.103
9. **Abed Zahedi bialvaei**, Hossein Samadi Kafil, Mohammad Asgharzadeh, Mehdi Yousefi, Mohammad Aghazadeh: *How Social Networks Can Affect Infectious Disease Control? An Experience from Northwest of Iran.* Infection Control and Hospital Epidemiology 02/2016; -1(4).
DOI:10.1017/ice.2016.3
10. **Abed Zahedi bialvaei**, Hossein Samadi Kafil, Mohammad Asgharzadeh, Mohammad Yousef Memar, Mehdi Yousefi: *Current Methods for the Identification of Carbapenemases.* Journal of chemotherapy (Florence, Italy) 02/2016; 28(1):1-19. DOI:10.1179/1973947815Y.0000000063
11. Nasim Asadi Faezi, **Abed Zahedi bialvaei**, Hamed Ebrahimzadeh Leylabadlo, Hossein Soleimani, Mehdi Yousefi, Hossein Samadi Kafil: *Viral Infections in Patients with Acute Respiratory Infection in Northwest of Iran.* Molecular Genetics Microbiology and Virology, in press June 2016
12. Mohammad Taghi Akhi, **Abed Zahedi bialvaei**, Reza Ghotoslou, Mohammad Asgharzadeh, Behrooz Naghili, Tahereh Pirzadeh, Hossein Samadi kafil , Pourya Gholizadeh: *Faecal carriage of ESBL and plasmid-mediated AmpC β-lactamase genes in Klebsiella spp. and Shigella spp. isolated from Inpatient and Outpatient carriers in Tabriz, Iran.* Journal of Fundamental and Applied Sciences, in press July 2016
13. Lohrasbi V, Talebi M, **Bialvaei AZ**, Fattorini L, Drancourt M, Heiday M, et al. Trends in the discovery of new drugs for Mycobacterium tuberculosis therapy with a glance at resistance. *Tuberculosis.* 2017.
14. Jalilpour Y, Abdollahzade B, ParviziFard G, Aghazadeh M, **Bialvaei AZ**, Kafil HS. A simple route for preparation of pH-sensitive hydrogels by using egg white proteins in Alginic scaffold for the encapsulation of probiotics. *Ars Pharm.* 2017;58(3):1-10.
15. Kafil HS, Bagherbandi S, **Bialvaei AZ**, Leylabadlo HE. A Rare Case of Tracheobronchitis Alternariosis in a Renal Transplant Recipient. *Tuberculosis and respiratory diseases.* 2017;80(4):401-2.
16. Aghamali M, Rahbar M, Samadi Kafil H, Esmailkhani A, **Zahedi bialvaei A.** Laboratory methods for identification of methicillin-resistant Staphylococcus aureus. *Reviews in Medical Microbiology.* 2017;28(4):140-51.
17. **Abed Zahedi Bialvaei**, Mohammad Rahbar, Mehdi Yousefi, Mohammad Asgharzadeh, Hossein Samadi Kafil; Linezolid: a promising option in the treatment of Gram-positives, *Journal of Antimicrobial Chemotherapy*, Volume 72, Issue 2, 1 February 2017, Pages 354–364, <https://doi.org/10.1093/jac/dkw450>

18. **Bialvaei AZ**, Kouhsari E, Salehi-Abargouei A, Amirmozafari N, Ramazanzadeh R, Ghadimi-Daresajini A, et al. Epidemiology of multidrug-resistant *Acinetobacter baumannii* strains in Iran: a systematic review and meta-analysis. *Journal of chemotherapy (Florence, Italy)*. 2017;29(6):327-37.
19. Leylabadlo HE, Pourlak T, **Bialvaei AZ**, 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.
20. **Bialvaei AZ**, Pourlak T, Aghamali M, Asgharzadeh M, Gholizadeh P, Kafil HS. The Prevalence of CTX-M-15 Extended-spectrum beta-Lactamases Among *Salmonella* spp. and *Shigella* spp. Isolated from three Iranian Hospitals. *European journal of microbiology & immunology*. 2017;7(2):133-7.
21. Aghamali M, **Zahedi Bialvaei A**, Aghazadeh M, Asgharzadeh M, Samadi Kafil H. Carbapenemase inhibitors. *Reviews in Medical Microbiology*. 2017;28(3):104-13.
22. **Bialvaei AZ**, Asgharzadeh M, Aghazadeh M, Nourazarian M, Kafil HS. Challenges of Tuberculosis in Iran. *Jundishapur Journal of Microbiology*. 2017;10(3).
23. **Zahedi Bialvaei A**, Sheikhalizadeh V, Mojathedi A, Irajian G. Epidemiological burden of *Listeria monocytogenes* in Iran. *Iranian Journal of Basic Medical Sciences*. 2018;21(8):770-80.
24. Kouhsari E, **Zahedi bialvaei A**, Fakhre Yaseri H, Samadi Kafil H, Mohamadzade R, Rahbar M. A review on common laboratory methods for detection of carbapenemase Gram-negative bacilli. *Razi Journal of Medical Sciences*. 2018;24(165):47-65.
25. 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; 27:577-578.
26. Kouhsari E, Abbasian S, Sedighi M, Yaseri HF, Nazari S, **Bialvaei AZ**, et al. Clostridium difficile infection: a review. *Reviews in Medical Microbiology*. 2018;29(3):103-9.
27. Esmailkhani A, Akhi MT, Sadeghi J, Niknafs B, **Bialvaei AZ**, Farzadi L, et al. Assessing the prevalence of *Staphylococcus aureus* in infertile male patients in Tabriz, northwest Iran. *International Journal of Reproductive Biomedicine*. 2018;16(7):469.
28. Aghamali M, Sedighi M, **Zahedi bialvaei A**, Mohammadzadeh N, Abbasian S, Ghafouri Z, et al. Fosfomycin: mechanisms and the increasing prevalence of resistance. *Journal of Medical Microbiology* 2019; 68:11-25.
29. Edalati E, Saneei B, Alizadeh M, Hosseini SS, **Bialvaei AZ**, Taheri K. Isolation of probiotic bacteria from raw camel's milk and their antagonistic effects on two bacteria causing food poisoning. *New microbes and new infections*. 2019;27:64-8.

30. Nezamzadeh F, Esmailkhani A, Edalati E, Hosseini SS, Ghasemi A, **Zahedi bialvaei A**, et al. Link between single nucleotide polymorphism of rs266729 and rs2241766 in the ADIPOQ gene and gestational diabetes in an Iranian population. *Gene Reports* 2019; 14:72-75.
31. Mohammadzadeh N, Teymouri F, Razavi S, Hasannejad-Bibalan M, **Zahedi Bialvaei A**, Amirmozafari N, et al. The phenotypic and genotypic characteristics of biofilm formation and SCCmec typing of *Staphylococcus epidermidis* isolated from different sources. *Gene Reports* 2019; 17:100444.
32. Dehbanipour R, Khanahmad H, Sedighi M, **Bialvaei AZ**, Faghri J. High prevalence of fluoroquinolone-resistant *Escherichia coli* strains isolated from urine clinical samples. *Journal of preventive medicine and hygiene* 2019; 60:E25-E30.
33. Aghapour Z, Gholizadeh P, Ganbarov K, **Bialvaei AZ**, Mahmood SS, Tanomand A, et al. Molecular mechanisms related to colistin resistance in Enterobacteriaceae. *Infection and drug resistance* 2019; 12:965-975.
34. Amoupour M, Nezamzadeh F, **Zahedi bialvaei A**, Masjedian Jazi F, Alikhani MY, Mirnejad R. Differentiation of *Brucella* species by repetitive element palindromic PCR. *Reviews in Medical Microbiology* 2019; 30:155-160.
35. Sedighi M, **Zahedi Bialvaei A**, Hamblin MR, Ohadi E, Asadi A, Halajzadeh M, et al. Therapeutic bacteria to combat cancer; current advances, challenges, and opportunities. *Cancer Medicine* 2019; 8:3167-3181.
36. Khorasan MRM, Rahbar M, **Bialvaei AZ**, Gouya MM, Shahcheraghi F, Eshrat B. National surveillance of food-borne botulism in Iran during 2011–2015. *Reviews in Medical Microbiology* 2019.
37. Amoupour M, Nezamzadeh F, Bialvaei A, Sedighi M, Jazi F, Alikhani M, et al. Differentiation of *Brucella abortus* and *B. ámelitensis* biovars using PCR-RFLP and REP-PCR. *New microbes and new infections*. 2019; 32:100589.
38. Rezaei, Maryam; vand Yousefi, Jalia; Harzandi, Naser; Sharifizadeh, Monireh; **Zahedi bialvaei, Abed**; Rahbar, Mohammadd Production of blaoxa-23 type genes carrying by *Acinetobacter baumannii* isolated from hospitalized patients in Tehran, Iran, *Reviews in Medical Microbiology*: June 30, 2020 - Volume Publish Ahead of Print - Issue - doi: 10.1097/MMR.0000000000000224
39. Khorasan MRM, Rahbar M, **Bialvaei AZ**, Gouya MM, Shahcheraghi F, Eshrat B. Prevalence, Risk Factors, and Epidemiology of Food-borne Botulism in Iran. *Journal of Epidemiology and Global Health*. 2020;10(4):288.
40. Mohammadzadeh N, Kouchakian MR, Mohammadzadeh R, **Zahedi Bialvaei A**, Hosseini A, Golchini2 E, et al. Fixed Cadavers as Pathogen Carriers or Educational Tools. *Anatomical Sciences Journal*. 2020;17(2):88-9.
41. Rostamzadeh S, Mirnejad R, Masjedian Jazi F, Masoumi Zavaryani S, Saeidi S, **Zahedi bialvaei A**. Molecular characterization of the virulence genes gelE and cylA in the *Enterococcus* species isolated from clinical samples. *Meta Gene*. 2020; 24:100695.

42. Jahromy SH, Rahbar M, **Bialvaei AZ**, Asadi A, Jahromy SH, Eslami P, et al. Prevalence of fosfomycin resistance genes and antimicrobial susceptibility of clinical urinary extended-spectrum beta-lactamase-producing *Escherichia coli* and *Klebsiella pneumoniae* isolates. *Reviews in Medical Microbiology*. 2020;31(2):86-91.
43. Hashemi B, Afkhami H, Khaledi M, Kiani M, **Bialvaei AZ**, Fathi J, et al. Frequency of Metalo beta Lactamase genes, bla IMP1, INT 1 in *Acinetobacter baumanii* isolated from burn patients North of Iran. *Gene Reports*. 2020; 21:100800.
44. Mirzazade Elahe, IRAJIAN GHOLAMREZA, Nodeh Farahani Narges, **Zahedi Bialvaei Abed**, Ghasemi Ostad Farhad, RASOULI BAHAREH SADAT, Ehsani Amirreza, Almasi Simin. The Relationship between *Porphyromonas gingivalis* and Rheumatoid Arthritis: a Cross-Sectional Clinical, Microbiological, and Molecular Approach. *JOURNAL OF KERMAN UNIVERSITY OF MEDICAL SCIENCES*. 2020 [cited 2021March23];27(1):60-68. Available from: <https://www.sid.ir/en/journal/ViewPaper.aspx?id=778036>
45. Dalir A, Razavi S, Talebi M, Masjedian Jazi F, **Zahedi Bialvaei A**, Mirshekar M, et al. Antibiotic Susceptibility Pattern and Distribution of Virulence Factors Among *Klebsiella pneumoniae* Isolated from Healthy Volunteers. *Iranian Journal of Medical Microbiology*. 2021;15(6):676-83.
46. Rezaei M, vand Yousefi J, Harzandi N, Sharifizadeh M, **Zahedi bialvaei A**, Rahbar M. Production of bla_{OXA-23} type genes carrying by *Acinetobacter baumannii* isolated from hospitalized patients in Tehran, Iran. *Reviews and Research in Medical Microbiology*. 2021;32(2).
47. **Zahedi bialvaei A**, Rahbar M, Hamidi-Farahani R, Asgari A, Esmailekhani A, Mardani dashti Y, et al. Expression of RND efflux pumps mediated antibiotic resistance in *Pseudomonas aeruginosa* clinical strains. *Microbial Pathogenesis*. 2021; 153:104789.
48. Nezamzadeh F, Asadyun M, Anbiyaiee A, Sedighi M, **Zahedi bialvaei A**, Khalili Y, Leylabadlo HE, Esmailekhani A. Association of specific haplotype of tumor necrosis factor- α and interleukin-1 β polymorphisms with *Helicobacter pylori* infection and gastric carcinogenesis. *GERMS*. 2021;11(4):554-561. doi: 10.18683/germs.2021.1290
49. **Bialvaei AZ**, Dehkharghani AD, Asgari F, Shamloo F, Eslami P, Rahbar M. Modified CIM test as a useful tool to detect carbapenemase activity among extensively drug-resistant *Klebsiella pneumoniae*, *Escherichia coli* and *Acinetobacter baumannii*. *Annals of Microbiology*. 2021;71(1):1-10.
50. Zamanlou S, Omidnia P, Babaei F, Mehraban A, Koochaki P, Azizian K, et al. Emergence of azithromycin and third-generation cephalosporins resistant *Shigella* isolated from Iranian children. *Gene Reports*. 2021:101485.
51. **Zahedi bialvaei A**, Razavi S, Notash Haghigat F, Hemmati A, Akhavan MM, Jeddi-Tehrani M, et al. Monoclonal antibody directed to the PilQ -PilA DSL region in *Pseudomonas aeruginosa* improves survival of infected mice with antibiotic combination. *Microbial Pathogenesis*. 2021;158:105060.
52. Zamani K, Irajian G, **Bialvaei AZ**, Salehi TZ, Khormali M, Vosough A, et al. Passive immunization with anti-chimeric protein PilQ/PilA-DSL region IgY does not protect against

- mortality associated with *Pseudomonas aeruginosa* sepsis in a rabbit model. Molecular immunology. 2022;141:258-64.
53. Davarpanah M, **Bialvaei AZ**. Prevalence, antimicrobial resistance, and biofilm-formation of *Listeria monocytogenes* in bulk raw milk in East Azerbaijan province, Iran. Reviews and Research in Medical Microbiology. 9900.
 54. Shalchian A, Esmailkhani A, Razavi S, **Zahedi bialvaei A**. A review of the role of artificial intelligence in the diagnosis and treatment of infectious diseases. Razi Journal of Medical Sciences. 2022;29(7):0-.
 55. Zamanlou S, Omidnia P, Babaie F, Mehraban A, Koochaki P, Azizian K, Hosseini Nave H, Zahedi bialvaei A, Khalili Y. Emergence of azithromycin and third-generation cephalosporins resistant *Shigella* isolated from Iranian children. Gene Reports. 2022;26:101485.
 56. Esmailkhani A, Asadyun M, Nezamzadeh F, Keyvanfar E, Najafabadi NS, **Bialvaei AZ**. Establishing Artificial Intelligence and Reducing Health Care System Costs in Response to COVID-19. Clin Lab. 2022 May 1;68(5). doi: 10.7754/Clin.Lab.2021.210848. PMID: 35536078.
 57. 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;29:179-94.
 58. Khalili Y, Omidnia P, Goli HR, Zamanlou S, Babaie F, **Zahedi Bialvaei A**, et al. Molecular characterization of carbapenem-resistant *Pseudomonas aeruginosa* isolated from four medical centres in Iran. Molecular Biology Reports. 2022;49(9):8281-9.

Gene registration in NCBI gene bank

Accession numbers for nucleotide sequences: Abed Zahedi bialvaei

<https://submit.ncbi.nlm.nih.gov/subs/genbank/>

BankIt2139843 Unive1 MH734173
BankIt2139843 Unive2 MH734174
BankIt2139843 Unive3 MH734175
BankIt2139843 Unive4 MH734176
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BankIt2139843 Unive6 MH734178
BankIt2139843 Unive7 MH734179
BankIt2139843 Unive8 MH734180

Article Title: Isolation of probiotic bacteria from raw camel's milk and their antagonistic effects on two bacteria causing food poisoning

Patents

- **Abed Zahedi Bialvaei**, Gholamreza Irajian, Shabnam Razavi, Mahmood Jedi-Tehrani." Targeted monoclonal antibody against *Pseudomonas aeruginosa*, method of construction and applications," IR Registration No. 139950140003010076. Tehran, Iran, filed January 1, 2021, and issued February 2021

Conference Proceedings

- Prevalence of Carbapenemases in the Middle East, *7th International Congress of Laboratory and Clinic and 1st Conference of Clinical Virology*, Tehran, Iran. Feb 12th- 14th, 2015
- Emergence of Colistin Resistance in the World, *7th International Congress of Laboratory and Clinic and 1st Conference of Clinical Virology*, Tehran, Iran. Feb 12th- 14th, 2015
- Spread of CTX-M-15 Extended-Spectrum Beta Lactamases among *Salmonella* spp. and *Shigella* spp. isolated from Iran hospitals, *7th International Congress of Laboratory and Clinic and 1st Conference of Clinical Virology*, Tehran, Iran. Feb 12th- 14th, 2015
- 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. Feb 12th- 14th, 2015
- Viral Infections in Patients with Acute Respiratory Infections in Northwest of Iran, *the 16th International and Iranian Congress of Microbiology*, Tehran, Iran. Aug 25-27, 2015
- Evaluating Defects in Diagnosis Procedure in Iranian Microbiology Laboratories, *the 16th International and Iranian Congress of Microbiology*, Tehran, Iran. Aug 25-27, 2015
- What is the role of Microbiology Laboratories in the National Health Development Plan in Iran, *the 16th International and Iranian Congress of Microbiology*, Tehran, Iran. Aug 25-27, 2015
- Increasing the Prevalence of Carbapenem Resistant Coitrobacter freundii Isolated from Blood Culture in Tabriz, Iran, *the 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, Iran, *the 16th International and Iranian Congress of Microbiology*, Tehran, Iran. Aug 25-27, 2015
- Update on the Epidemiology of Tuberculosis in Iran, *the 16th International and Iranian Congress of Microbiology*, Tehran, Iran. Aug 25-27, 2015

Teaching and Research Experiences

- Teacher of the workshop on "Molecular methods and PCR"
- Teacher of the workshop on " Scientific Paper Writing and EndNote Skills"
- 2016 to 2021, Teaching and Research Assistant, Department of Microbiology, Iran University of Medical Science, Tehran, Iran
- 2018 to 2022, Research Assistant, Microbial Biotechnology Research Center, Iran University of Medical Sciences, Tehran, Iran

Reviewing and Editorial board Experience

- Editorial board member of "Infectious Medicine" journal (Elsevier Publications)
- Editorial board member of "Infectious Diseases Research" journal
- Scientific editor of "Iranian Journal of Medical Microbiology "
- Reviewer of different peer review journals like "APMIS", "Microbial Pathogenesis, Gene reports, Embryologia" and etc., since 2019

Awards, Honors and Training Participation Certificate

- ✓ Top student and top graduate student of Tabriz University of Medical Sciences
- ✓ Member of the Talent Academy of Tabriz University of Medical Sciences
- ✓ Membership in the Iran's National Elites Foundation, since 2016.
- ✓ Holds a Health Master of Business administration (HMBA)
- ✓ Training for VITEK 2 Systems from: 2017-06-27 to 2017-07-05 (BioMérieux company in Tehran, Iran)

Research Interests

- Infectious Diseases
- Host-pathogen interaction
- Antimicrobial resistance
- Production of Monoclonal Antibodies
- Hybridoma Technology
- Vaccine Production

Occupational records

- Employment in the laboratory of Al-Zahra Hospital in Rasht as a Technical expert for 1 year in the years 2011-2012
- Employment in the laboratory of Razi Hospital in Rasht as a Technical expert for 2 years in the years 2012-2014
- Scientific consultant of the leading company of Fardavar, the exclusive representative of BioMérieux company products of France from 2016
- Scientific consultant of Farboud Laboratory Equipment Company for 12 months