

Curriculum Vitae

Farzaneh Firoozeh

Associate professor of Microbiology

PERSONAL

First name: Farzaneh

Family name: Firoozeh

Nationality: Iranian

Marital status: Married

OFFICE ADDRESS

Department of Microbiology,

School of Medicine,

Alborz University of Medical Sciences,

Karaj, Iran,

Tel: + 98 26 32563318

Fax: + 98 26 32563325

E-mail: ffiroozeh@ut.ac.ir, firoozeh823@gmail.com

I. QUALIFICATIONS

1. M.Sc. in Microbiology, 2002. Tabriz University of Medical Sciences, Tabriz, Iran.
2. Ph.D. in Bacteriology, 2011. Tehran University, Tehran, Iran.

II. UNIVERSITY APPOINTMENT

Assistant professor of Microbiology, 2011- 2018.

Associated professor of Microbiology, 2018 -present.

III. SCHOLARSHIPS, AWARDS AND HONORS

1. Studies on PCR, Fast-PCR, and RT-PCR of enterohemorrhagic *Escherichia coli*. Dept. of Microbiology, Kobe University Graduate School of Health Sciences, Kobe, Japan 2006- 2007.
2. Study on MRSA by PFGE technique. Department of Microbiology, Kobe University Graduate School of Health Sciences, Kobe, Japan 2006- 2007.
3. Honored for the years' students in research works (Thesis), by Tabriz University of Medical Sciences, 2002.
4. Honored for the years' students (selected student), by Tehran University, 2010.
5. Honored for the years' research activities (selected researcher), by Kashan University of Medical Sciences, December 2015.
6. Honored for the years' research activities (H-Index), by Office of Vice Chancellor for Research at Alborz University of Medical Sciences, April 2018.

IV. MEMBERSHIP

1. Iranian Society for Microbiology (ISM)

V. POSITION HELDS

1. Educational Assistant at the International Pardis of Kashan University of Medical Sciences (2012- till 2016).
2. Committee responsible in the field of basic science for Scientific Olympiads for Medical Sciences Students (Education Development Center) (2011- till 2016).

3. Responsible for organizing talented students (Education Development Center) (2012-2014).
4. Responsible for organizing the empowerment of academic staff (Education Development Center) (2012- 2014).
5. Member of the Kashan University of Medical Sciences Research Council (2011-2016).
6. Member of the Kashan University of Medical Sciences Educational Council (2012-2016).
7. Member of the research council of the Center for Infectious Diseases Research Center in Kashan University of Medical Sciences (2015-2017).
8. Administrator of 10th Scientific Olympiads for Medical Sciences Students in Alborz University of Medical Sciences. (Education Development Center) (2018-Present).
9. Committee responsible in the field of basic science for 10th Scientific Olympiads for Medical Sciences Students (Education Development Center) (2017-Present).
10. Editorial Board of "International Journal of Enteric Pathogens" (2017-Present).
11. Member of the research council of the Probiotic Research Center in Alborz University of Medical Sciences (2018-Present).
12. Member of the research council of the Evidence- based phytotherapy and complementary medicine research center, Alborz University of Medical Sciences (2018-Present).
13. Administrator of 11th, 12th, 13th Scientific Olympiads for Medical Sciences Students in Alborz University of Medical Sciences. (Education Development Center) (2019-Present).
14. Head of post graduate Affairs, Alborz University of Medical Sciences (2019-2021).
15. Member of the Faculty of Medicine, Alborz University of Medical Sciences Research Council (2021- Present).

VI. AD-HOC REVIEWER

1. Peer reviewer for “Journal of Feyz (KAUMS’s Journal)”.
2. Peer reviewer for "Iranian Journal of Microbiology".
3. Peer reviewer for "Iranian Journal of Medical Sciences".
4. Peer reviewer for “African Journal of Biotechnology”.

5. Peer reviewer for “Journal of Pathogens”.
6. Peer reviewer for “Medical Sciences Journals”.
7. Peer reviewer for “Archives of Trauma Research”.
8. Peer reviewer for “Bulletin of Emergency and Trauma”.
9. Peer reviewer for “International Archives of Health Sciences”.
10. Peer reviewer for “Microbial Drug Resistance” Journal.
11. Peer reviewer for “International Journal of Enteric Pathogens”.
12. Peer reviewer for “Journal of Medical Microbiology and Infectious Diseases”.
13. Peer reviewer for “Antimicrobial Resistance and Infection Control”.
14. Peer reviewer for “Anti-Infective Agents Journal”.
15. Peer reviewer for “Gene Reports” Journal.
16. Peer reviewer for “Infection and Drug Resistance” Journal.
17. Peer reviewer for “Journal of Clinical Laboratory Analysis”.
18. Peer reviewer for “GERMS” Journal.
19. Peer reviewer for “Open Microbiology” Journal.
20. Peer reviewer for “Frontiers in Public Health” Journal.
21. Peer reviewer for “BMC Infectious Diseases” Journal.
22. Peer reviewer for “Journal Antimicrobial Resistance & Infection Control” Journal.

VII. EDITORIAL ADVISORY BROAD MEMBERSHIP

1. Editorial Board of "International Journal of Enteric Pathogens" (2017-Present).
2. Editorial Board, The Open Microbiology Journal (2019-Present).

VIII. TEACHING EXPERIENCES

1. Microbiology and bacteriology to Medical, Laboratory Sciences, Nutrition, Nursing, Midwifery, Pharmacology, and Medical students (Undergraduate and postgraduate students).
2. Advanced Microbiology, Molecular bacteriology to MSc, PhD and MD (postgraduate students).
2. Supervisor for postgraduate students in the field of Microbiology (Master and Ph.D students).

IX. TECHNICAL EXPERIENCES

1. Molecular biology techniques: PCR, Multiplex PCR, RT-PCR, RFLP-PCR, Real-time PCR, PFGE, MLST.

X. COLLABORATIONS

1. Department of Microbiology, School of Medicine, Kashan University of Medical Sciences, Kashan, Iran.
2. Microbiology Department, Pasture Institute of Iran, Tehran, Iran.
3. Social Determinants of Health (SDH) Research Center, Kashan University of Medical Sciences, Kashan, Iran; Core Research Lab, Kashan University of Medical Sciences, Kashan, Iran.

XI. BOOKS

1. **Firoozeh F**, Zibaei M. Antibiotics and bacterial resistance to antibiotics, 2018.
2. Bahrami A, **Firoozeh F**, Pourrostami K, **Zibaei M**. The Food Microbiology and Safety. 2021.
3. Zandifard A, Badrfam R,, **Firoozeh F**,.....Covid-19, Therapeutic, Basics and Educational Challenges.2021

XII. PUBLICATIONS

1. Zibaei M, Sadjjadi SM, Geramizadeh B, **Firoozeh F**. Hepatic toxocariasis in a child: A case report from Shiraz, Southern Iran. *Hepat Mont*, 2008; 8(4): 310-312.
2. **Farzaneh F**, Akhi MT, Oskouei M. The antibiotic resistance pattern among *Enterococcus* isolated from clinical specimens. *Tabriz Univ Med Sci J*, 2009; 32(1): 61-67.
3. **Firoozeh F**, Zibaei M. New vaccines. *Laboratory Diag*, 2009; 61: 87-84.
4. Akhi MT, **Farzaneh F**, Oskouei M. Study of enterococcal susceptibility patterns isolated from clinical specimens in Tabriz, Iran. *Pak J Med Sci*, 2009; 25 (2): 211-216.
5. Zibaei M, Abdollahpour F, Birjandi M, **Firoozeh F**. Epidemiology of *Toxocara* spp. eggs in the public parks from three area of Khorram Abad, Iran. *Nepal Med Coll J*, 2010; 12 (2):63-65.
6. **Firoozeh F**, Zahraei Salehi T, Shahcheraghi F, Karimi V, Aslani MM. Characterization of antimicrobial resistance patterns and class I integrons among *Salmonella enterica* serovar *Enteritidis* isolated from human and poultry. *FEMS Microbiol & Immunol*, 2011; 64(2): 237-243.
7. **Firoozeh F**, Shahcheraghi F, Zahraei Salehi T, Karimi V, Aslani MM. Identification of antimicrobial resistance profile and class I integrons among *Salmonella enterica* serovars isolated from human clinical specimens in Tehran, Iran. *Iranian J Microbiol*, 2011; 3 (3): 75-80.
8. Zibaei M, **Firoozeh F**, Azargoon A. Infantile Amoebiasis: A Case Report. *Case Rep Infect Dis* 2012; Article ID 614398, 3 pages.
9. Zibaei M, **Firoozeh F**, Bahrami P, Sadjjadi SM. Investigation of Anti-*Toxocara* Antibodies in Epileptic Patients and Comparison of Two Methods: ELISA and Western Blotting. *Epilepsy Res Treat*, 2013, Article ID 156815, 5 pages.

10. **Firoozeh F**, Zibaei M, Rashidipour H, Zendedel A H, Kamran A. Microbial contamination of pumice used in dental laboratories. *Healthcare in Low-resource Setting*. 2013, 1:e5.
11. Adeli Z, **Firoozeh F**, Zibaei M, Shakib P. Prevalence of Shiga toxin and Intimine genes in Shiga toxin-producing *Escherichia coli* isolated from urine samples in Lorestan, Iran. *KAUMS Journal (FEYZ)*, 2013; (17(2):188-194.
12. Soleimani-Asl Y, Zibaei M, **Firoozeh F**. Detection of *qnrA* gene among quinolone-resistant *Escherichia coli* isolated from urinary tract infections in Khorram Abad, Iran, 2011-2012. *KAUMS Journal (FEYZ)*, 2013, 17 (5): 488-494.
13. **Firoozeh F**, Shahcheraghi F, Zahraei Salehi T, Aslani MM, Banisaeed R. First CTX-M type β -lactamase-producing and ciprofloxacin resistant *Salmonella* infection acquired by a child in Iran. *Int J Entric Pathog*, 2014; 1(2): 76-78.
14. Neamati F, **Firoozeh F**, Saffary M, Mousavi GA. The prevalence of uropathogenic *E. coli* and detection of some virulence genes isolated from patients referred to Kashan Shahid-Beheshti Hospital during 2012-2013. *KAUMS Journal (FEYZ)*, 2014; 18(3): 267-274.
15. **Firoozeh F**, Zibaei M, Soleimani-Asl Y. Detection of plasmid-mediated *qnrA* and *qnrB* genes among the quinolone-resistant *Escherichia coli* isolated from urinary tract infections in Iran. *J Infect Dev Ctries*, 2014; 8(7): 818-822.
16. **Firoozeh F**, Zahraei-Salehi T, Shahcheraghi F. Molecular Clonality and Detection of Class 1 Integrons in Multidrug-Resistant *Salmonella enterica* Isolates from Animal and Human in Iran. *Microb Drug Resist*, 2014; 20(6):517-524.
17. **Firoozeh F**, Saffari M, Neamati F, Zibaei M. Detection of virulence genes in *Escherichia coli* isolated from patients with cystitis and pyelonephritis. *Int J Infect Dis*, 2014; 29:219-22.
18. Shamsolahrari E, **Firoozeh F**, Moniri R. Prevalence of floroquinolon-resistance among extended-spectrum β -lactamase producing *Klebsiella* isolates from clinical specimens. *Proceeding in Iran J Public Health*, 2014, 43 (2):82.

19. **Firoozeh F**, Amiri A, Moniri R, Zibaei M. Characterization of subtype CTX-M-Type extended-spectrum β -lactamase among *Klebsiella* spp. Proceeding in Iran J Public Health, 2014, 43 (2):83.
20. Neamati F, **Firoozeh F**, Saffari M, Zibaei M. Characterization of virulence genes and antimicrobial resistance pattern in uropathogenic *Escherichia coli* strains isolated from hospitalized patients in Kashan, Iran. Jundishapur J Microbiol, 2015; 8(2):e17514.
21. Ghanbarzadeh Corehtash Z, Khorshidi A, **Firoozeh F**, Akbari H, Mahmoudi Aznavah A. Biofilm formation and virulence factors among *Pseudomonas aeruginosa* isolated from burn patients. Jundishapur J Microbiol, 2015; 8(10):e22345.
22. Afzali H, **Firoozeh F**, Amiri A, Moniri R, Zibaei M. Characterization of CTX-M-type extend-spectrum β -lactamase producing *Klebsiella* spp. in Kashan, Iran. Jundishapur J Microbiol, 2015; 8(10): e27967.
23. Shams E, **Firoozeh F**, Moniri R, Zibaei M. Prevalence of plasmid-mediated quinolone resistance genes among extended-spectrum β -lactamase-producing *Klebsiella pneumoniae* human isolates in Iran. J Pathog, 2015; 2015:434391.
24. Bagheri-Josheghani S, Moniri R, **Firoozeh F**, Sehat M, Dasteh-Goli Y. Susceptibility pattern and distribution of oxacillinases and blaPER-1 genes among multi-drug resistant *Acinetobacter baumannii* in a teaching hospital in Iran. J Pathogen, 2015; e957259.
25. Ansari N, Pourrostami K, **Firoozeh F**, Zibaei M. The seroepidemiology of *Haemophilus influenzae* type b in children under 6 years old in Khorram Abad, Iran. Alborz Univ Med J, 2015; 4(2): 84-90.
26. Amiri A, **Firoozeh F**, Moniri R, Zibaei M. Prevalence of CTX-M-type and PER extended-spectrum β -lactamases among *Klebsiella* spp isolated from clinical specimens in university hospital in Kashan, Iran. Iran Red Crescent Med J, 2016; 18(3): e22260.
27. Saffari M, **Firoozeh F**, Pourbabaee M, Zibaei M. Evaluation of Metallo- β -Lactamase-Production and Carriage of bla-VIM Genes in *Pseudomonas aeruginosa* Isolated from Burn Wound Infections in Isfahan. Arch Trauma Res, 2016; e34343.

28. **Firoozeh F**, Aghaseyed Hosseini M, Zibaei M, Piroozmand A. Detection of blaKPC and blaGES carbapenemase genes in *Klebsiella pneumoniae* isolated from hospitalized patients in Kashan, Iran. Recent Pat Antiinfect Drug Discov, 2016, 11(2), 183-188.
29. Bagheri Josheghani S, Moniri R, **Firoozeh F**, Sehat M, Dastehgoli K, Koosha H, Khaltabadi Farahani R. Emergence of bla_{OXA}-Carrying Carbapenem Resistance in Multidrug-Resistant *Acinetobacter baumannii* in the Intensive Care Unit. Iran Red Crescent Med J, 2016; e27327.
30. Mahluji Z, **Firoozeh F**, Khorshidi A, Zibaei M. The frequency of class 1 integrons in multi-drug resistant *Klebsiella pneumoniae* isolated from clinical samples using polymerase chain reaction assay. Sci J Kurd Univ Med Sci, 2016; 21(3): 68-78.
31. Pourbabaee M, **Firoozeh F**, Saffari M, Zibaei M, Sehat M, Radan M. Detection of bla-IMP-1 and bla-IMP-2 genes among metallo- β -lactamase-producing *Pseudomonas aeruginosa* isolated from burn patients in Isfahan. Alborz Univ Med J, 2016; 5(1): 1-7.
32. Agha-Seyed Hosseini M, **Firoozeh F**, Piroozmand A, Gilasi HR Carbapenemase-producing *Klebsiella pneumoniae* strains among clinical specimens in Kashan (2014-2015). Kashan Uni Med J (Feyz). 2016; 20(3): 267-73.
33. Zilaee MR, **Firoozeh F**, Moniri R, Sehat M, Zahedi Bidgoli Z. Prevalence of non-tuberculous mycobacteria isolated from patients referring to tuberculosis center of Kashan University of Medical Sciences. Sci J Kurd Univ Med Sci, 2016; 21(4): 50-59.
34. **Firoozeh F**, Dadgostar E, Akbari H, Zibaei M, Sajjadian SMS, Moshtaghi MM, Shakib A. Bacterial contamination of Iranian paper currency & their antibiotic resistance patterns. Int J Enteric Pathog 2017; 5(4):106-110.
35. **Firoozeh F**, Mahluji Z, Shams E, Khorshidi A, Zibaei M. New Delhi metallo- β -lactamase-1-producing *Klebsiella pneumoniae* isolates in hospitalized patients in Kashan, Iran. Iranian J Microbiol 2017; 9(5): 283-287.

36. Saffari M, Karami SH, **Firoozeh F**, Sehat M. Evaluation of biofilm-specific antimicrobial resistance genes in *Pseudomonas aeruginosa* isolates in Farabi Hospital. *Journal of Medical Microbiology* 2017; 66(7): 905-909.
37. Bagheri Josheghani S, Moniri R, **Firoozeh F**, Sehat M, Dastehgoli K, Koosha H, Khaltabadi Farahani R. Emergence of blaOXA-Carrying Carbapenem Resistance in Multidrug-Resistant *Acinetobacter baumannii* in the Intensive Care Unit. *Iran Red Crescent Med J* 2017; 19(5): e27327.
38. Akbari M, Etemadi A, **Firoozeh F**, Yaseliani M. Synthesis of AgO–TiO₂ nanocomposite through a simple method and its antibacterial activities. *J Materials Science: Materials in Electronics* 2017; 28(15):11562.
39. **Firoozeh F**, Soleimani-Moorchekhorti L, Zibaei M. Evaluation of pathogenicity islands in uropathogenic *Escherichia coli* isolated from patients with urinary catheters. *J Infect Dev Ctries* 2017; 11(7):557-562.
40. Rasoulilian E, Zibaei M, **Firoozeh F**. Multivesicular hydatid cyst of the kidney. *Rev Soc Bras Med Trop*, 2019; 52:e20180374.
41. **Firoozeh F**, Mahluji Z, Khorshidi A, Zibaei M. Molecular characterization of class 1, 2 and 3 integrons in clinical multi-drug resistant *Klebsiella pneumoniae* isolates. *Antimicrob Resist Infect Control* 2019;8:59.
42. **Firoozeh F**, Shiralinezhad A, Momen-Heravi M, Aghadavod E, Zibaei M. Rapid Detection of Pathogenic Bacteria in Whole Blood Samples Using 23S rRNA PCR Assays. *Open Microbiol J* 2019; 13(1): 1-5.
43. **Firoozeh F**, Karami SH, Saffari M, Ameli Zamani K. Post-cataract surgery endophthalmitis by multidrug resistant *Pseudomonas aeruginosa* : Case Report. *Alborz University of Medical Sciences Journal*, 2019; 8(1): 75-78.
44. **Firoozeh F**. Gut microbiome and human health. *Int J Enteric Pathog* 2019;7(2):30.
45. Ghazvini, K, Yousefi M, Firoozeh F, Mansouri S. Predictors of tuberculosis: Application of a logistic regression model. *Gene Reports* 2019; 17,100527.

46. Shapouri Moghaddam A, Mansouri S, Neshani A, **Firoozeh F**, Matinpur A, Khaledi A, Ghazalibina M. Construction, cloning, and expression of caga recombinant protein of helicobacter pylori. *Avicenna Journal of Medical Biotechnology* 2020; 12(2):135-138.
47. **Firoozeh F**, Zibaei M. The role of gut microbiota in antimicrobial resistance: a mini-review. *Anti-Infective Agents* 2020; 18(3): 201-206.
48. Amiri A, **Firoozeh F***, Zibaei M, Salahshoorifar I. Comparative Study of Extracted Nucleic Acid from Escherichia coli by Two Methods Phenol-chloroform and Extraction Using Magnetic Nanoparticle. *Alborz University of Medical Sciences Journal*, 2020, 9, (3): 235-240.
49. Rostami H, **Firoozeh F**, Zibaei M, Salahshoorifar I. Evaluation of Genomic DNA Extraction Using Monolayer and Bilayer Magnetic Nanoparticles. *Int J Enteric Pathog* 2020;8(2):1-4.
50. Shiralinezhad A, **Firoozeh F**, Momen-Heravi M, Aghadavod E, Sehat M. Diagnosis of bacteremia using polymerase chain reaction assay in septicemia patients admitted to Shahid Beheshti Hospital in Kashan. *Tehran Univ Med J* 2020; 77(10): 634-639.
51. Rasouli E, Zibaei M, Bahadory S, Hosseini H, **Firoozeh F**. Parasitological and molecular study of *Toxocara* spp. in *Lumbricus terrestris* earthworms. *Bulg J Vet Med* 2020, 23(4):487-493.
52. **Firoozeh F**, Omidi M, Saffari M, Sedaghat H, Zibaei M. Molecular analysis of methicillin-resistant *Staphylococcus aureus* isolates from four teaching hospitals in Iran: the emergence of novel MRSA clones. *Antimicrobial Resistance and Infection Control* 2020; 9(1):112.
53. Omidi M, **Firoozeh F**, Saffari M, Zibaei M, Khaledi A. Ability of biofilm production and molecular analysis of *spa* and *ica* genes among clinical isolates of methicillin-resistant *Staphylococcus aureus*. *BMC Research Notes* 2020; 13(1),19.
54. **Firoozeh F**, Zibaei M. The role of gut microbiota in antimicrobial resistance: a mini review. *Anti-Infective Agents* 2020; 18(3): 201-206.
55. Eslahi AV, Badri M, Khorshidi A, Majidiani H, Hooshmand E, Hosseini H, Taghipour A, Foroutan M, Pestehchian N, Firoozeh F, Riahi SM, **Zibaei M**. Prevalence

of *Toxocara* and *Toxascaris* infection among human and animals in Iran with meta-analysis approach. BMC Infect Dis 2020; 20(2): 20.

56. Raissi V, Raiesi O, Etemadi S, **Firoozeh F**, Getso M, Hadi AM, Zibaei M. Environmental soil contamination by *Toxocara* species eggs in the public places of Ilam, Iran. Ann Agric Environ Med 2020; 27(1):15-18.

57. Tajbakhsh R, **Firoozeh F**. Multidrug-Resistance Among Uropathogenic *Escherichia coli* Strains. Int J Enteric Pathog 2020; 8(1):1-2.

58. Omidi M, **Firoozeh F**, Saffari M, Sedaghat H. Molecular detection of methicillin-resistant *Staphylococcus aureus* according to *mecA* and *femA* genes among hospitalized patients in Kashan and Isfahan Hospitals. Alborz Univ Med 2021; 10(1): 33-42

59. Karami P, **Firoozeh F**, Shayestehpour M, Rashki S, Marzhooseyni Z, Khaledi A. Study of MBL producing *Acinetobacter baumannii* isolates and detection of its related IMP gene by molecular method. Iran J Public Health [Inpress].

60. Amiri A, **Firoozeh F**, Zibaei M, Khaledi A. Effects of probiotics on human health and diseases: a review. Acta Med Bulg J. 2021; 48(1): 95-100.

61. Nikibakhsh M, Firoozeh F, Badmasti F, Kabir K, **Zibaei M**. Molecular study of metallo- β -lactamases and integrons in *Acinetobacter baumannii* isolates from burn patients. BMC Infect Dis. 2021;21(1):782.

62. Balazadeh F, Zibaei M, Heidari AE, Rastad H, **Firoozeh F**. Seroprevalence of *Fasciola* infection among Iranian patients hospitalized during the initial wave of COVID-19. Environ Med. 2021

63. Badmasti F, Habibi M, **Firoozeh F**, Fereshteh S, Bolourchi N, Goodarzi NN. The combination of CipA and PBP-7/8 proteins contribute to the survival of C57BL/6 mice from sepsis of *Acinetobacter baumannii*. Microb Pathog. 2021 Sep;158:105063.

64. Zibaei M, **Firoozeh F**, Aziziyan T, Sobhani-Nasab A, Etemadi A, Amiri Z. Evaluation of antimicrobial effect of *Ghalghaf Gall* extract on gram positive and gram negative bacteria. Alborz Uni Med Sci J. 2021 [In press].

65. Moravej F, Zibaei M, Ahmadinejad M, Hosseini H, **Firoozeh F**. Evaluation of scolicidal effects the nanoparticles of *Ghalghaf Gall* extracts and silver oxide on protoscolices of hydatid cyst in vitro. Alborz Uni Med Sci J. 2021 [In press].

XIII. ABSTRACT IN PROCEEDING

1. Oskuei M, **Firoozeh F**. Detection of Vancomycin resistance in *Enterococci*. Silver Jubilee Congress. 21-25 November, India, New Delhi, 2001. **Oral presentation.**
2. **Firoozeh F**, Oskouei M, Zibaei M, Akhi MT. Study of resistant *Enterococcus* to current antibiotic and vancomycin. 10th Iranian Congress of Infections Disease and Tropical Medicine, 5-9 January, Tehran, Iran, 2002.
3. **Firoozeh F**, Zibaei M. Detection of antibiotic resistant in *Enterococci*. Third European Congress on Tropical Medicine and International Health, Lisbon, Portugal, 2002. **Oral presentation.**
4. **Firoozeh F**, Oskouei M, Zibaei M, Akhi MT. Detection of vancomycin resistance plasmid *Enterococcus* isolates. 11th Iranian Congress of Infections Disease and Tropical Medicine. 28 Feb - 4 Mar, Tehran, Iran, 2003..
4. Shahcheraghi F, **Firoozeh F**, Zahraei-salehi T, Aslani MM. Antimicrobial resistance patterns among *Salmonella enterica* serovar Enteritidis isolated from human and poultry in Iran. 5th Diatan International Conference of Infectious Disease. July 14-17, Beijing, China, 2011.
5. Zahraei-salehi T, Shahcheraghi F, **Firoozeh F**, Aslani MM, Karimi, V. Characterization of class I integrons among *Salmonella enterica* isolated from human and poultry. First International & 12th Iranian Congress of Microbiology. May 23-26, Kermanshah, Iran, 2011.
6. **Firoozeh F**, Zahraei-salehi T, Shahcheraghi F, Karimi V, Aslani MM. The study of antimicrobial resistance among *Salmonella* serovars isolated from human in Tehran. The 20th Iranian Congress of Infectious Disease and Tropical Medicine. Dec 31, 2011-Jan 4, 2012, Tehran, Iran.
7. **Firoozeh F**, Shahcheraghi F, Zahraei-salehi T, Aslani MM. First Ciprofloxacin resistant *Salmonella* infection acquired by a child in Iran. July 14-16, Ardabil, Iran, 2012.
8. **Firoozeh F**, Shahcheraghi F, Zahraei-salehi T, Aslani MM Identification of Class 1 integron- associated gene cassettes in *Salmonella enterica* serovar Typhimurium isolated

from human and poultry clinical specimens. 6th Iranian Congress of Clinical Microbiology. October 2-4, Mashhad, Iran, 2012.

9. **Firoozeh F**, Shahcheraghi F, Zahraei-Salehi T, Aslani MM, Karimi V. A novel class I integron-associated gene cassette in MDR *Salmonella enterica* serovars isolated from human. 14th International Iranian Congress of Microbiology. August 28-30, Tehran, Iran, 2013.

10. **Firoozeh F**, Neamati F, Safari M. Characterization of *traT*, *PAI*, *cnf*, *aer*, *hly*, *afa*, *sfa*, *pap* virulence genes and antimicrobial susceptibility pattern in uropathogenic *Escherichia coli* strains isolated from hospitalized patients in kashan, Iran. 3rd national Congress of Enteric Pathogens. February 18-19, Alborz, Iran, 2014.

11. **Firoozeh F**, Amiri A, Moniri R. Characterization of subtypes of CTX-M extended-spectrum β -lactamase among *Klebsiella* spp. 15th International Iranian Congress of Microbiology. August 26-28, Tehran, Iran, 2014.

12. Shamsolahrari E, **Firoozeh F**, Moniri R. Prevalence of fluoroquinolone-resistance among extended-spectrum β -lactamase producing *Klebsiella* isolates from clinical specimens. Proceeding in Iran J Public Health, 2014, 43 (2):82.

13. **Firoozeh F**, Pourbabaee M, Saffari M, Radan M. Evaluation of metallo- β -lactamase-production and carriage of *bla*-_{VIM} genes in *Pseudomonas aeruginosa* isolated from burn wound infections in Isfahan. 16th International Iranian Congress of Microbiology. August 25-27, Tehran, Iran, 2015.

14. Pourbabaee, **Firoozeh F**, Saffari M, Radan M. Detection of *bla*-_{IMP-1} and *bla*-_{IMP-2} genes among metallo- β -lactamase-producing *Pseudomonas aeruginosa* isolated from burn patients in Isfahan. "16th International Congress of Microbiology" Tehran, Iran, 25-27 Aug 2015.

15. **Firoozeh F**, Mahluji Z, Khorshidi A. The gene cassettes of class I, II and III integrons among multi-drug resistant *Klebsiella pneumoniae* isolates. 1st International and 4th National Congress on Enteric Pathogens. 24-26 Feb 2016. **Oral presentation.**

16. **Firoozeh F**, Aga-Seyed Hosseini M, Piroozmand A, Zibaei M. The *blaKPC* and *blaGES* carbapenemase genes and integron class I in *Klebsiella pneumoniae* isolated in Kashan. “17th International Congress of Microbiology” Tehran, Iran, 23-25 Aug 2016.

Poster presentation.

17. **Firoozeh F**, Sobhani A, Etemadi A, Yaseliani M. Study of antibacterial effect of silver nanoparticles against gram positive and gram negative bacteria. 18th International Congress of Microbiology” Tehran, Iran, 29-31 Aug 2017. **Poster presentation.**

18. **Firoozeh F**, Karami SH, Saffari M, Ameli-Zamani K. A case of post-cataract surgery endophthalmitis due to multidrug resistant *Pseudomonas aeruginosa*. The First Conference on Clinical Case Reports. Alborz-Karaj, Iran, 29 Nov 2017. **Poster presentation.**

19. **Firoozeh F**, Shiralinezhad A, Momen – Heravi M, Aghadavod E, Zibaei M. Rapid diagnosis of bacteremia in whole -blood specimens of suspected patients using polymerase chain reaction assay. 10th International Congress of Laboratory & Clinic, 3rd National Congress of Basic medical Sciences and the Knowledge based Production. Tehran, Iran, 31 Jan -2 Feb 2018. **Mini -oral presentation.**

20. **Firoozeh F**, Omid M, Saffari M, Sedaghat H, Zibaei M. Phenotypic and genotypic characterization of antibiotic resistance among methicillin-resistant *Staphylococcus aureus* isolates in patients admitted to Isfahan and Kashan hospitals in 2017. 19th International Congress of Microbiology” Tehran, Iran, 4-6 September 2018. **Oral presentation.**

21. **Firoozeh F**, Nikibakhsh M, Satarzadeh tabrizi M, Alinezhad F. Report of one case of nosocomial mixed infection due to multi- drug resistant staphylococcus aureus, *Escherichia coli* and *Pseudomonas aeruginosa* in deep burn wound. National Congress on Clinical Case Reports, 26-27 Dec 2018, karaj, Iran.

22. **Firoozeh F**, Omid M, Saffari M, Sedaghat H. Report of three cases of MRSA linezolid -resistant isolates from hospitalized patients in Shahid Beheshti Hospital in Kashan for first time. 27th Iranian Congress of Infections Disease and Tropical Medicine, 12-16 January, Tehran, Iran, 2019.

23. **Firoozeh F**, Azizian T, Zibaei M. Antibacterial effects of combination of silver nanoparticles and extracts of Ghalghaf gall against *Escherichia coli* and *Staphylococcus aureus*. 20th International Congress of Microbiology” Tehran, Iran, 27-29 August 2019.
24. **Firoozeh F**, Rostami H, Zibaei M. Use of magnetic nanoparticles in extraction of genomic DNA from *Staphylococcus aureus* 12th International Congress of Laboratory & Clinic. Tehran, Iran, 12-14 December 2019.
25. Zibaei M, Rasouli E, Hosseini H, **Firoozeh F**, Bahadory S. Molecular and parasitological study of *Toxocara* spp. in *Lumbricus terrestris* earthworms. The 4rd International and 10th National Congress of Parasitology and Parasitic Diseases of Iran (NICOPA11). October 9-11, Urmia, Iran, 2019 (Speaker).
26. Zibaei M, Balazadeh F, Heidari A, Rastad H, **Firoozeh F**. Frequency of fascioliasis in admitting COVID-19 patients in training and therapeutic centers setup: An observational study. The First International Conference on COVID-19 and Health system. May 25-29, Zanjan, Iran, 2021.

XIV. SUBMITTED GENES TO GENBANK

1. Zahraei Salehi T, **Firoozeh F**, Shahcheraghi F, Aslani MM and Karimi V. *Salmonella enterica* subsp. *enterica* serovar Enteritidis strain Sepeta-IR class 1 integron aminoglycoside denyltransferase (*aadA6*) gene, partial cds, and hypothetical protein gene, complete cds. **ACCESSION JF907584**.
2. Shahcheraghi F, **Firoozeh F**, Zahraei Salehi T, Aslani MM, Karimi V and Nikbin VS. *Salmonella enterica* subsp. *enterica* serovar Enteritidis strain sepid class I integron aminoglycoside adenyltransferase (*aadA1*) gene, complete cds. **ACCESSION JN097815**.
3. **Firoozeh F**, Zahraei Salehi T, Shahcheraghi F, Aslani MM and Karimi V. *Salmonella enterica* subsp. *enterica* serovar Enteritidis strain sepetamehr class I integron dihydrofolate reductase (*dfrA25*) gene, complete cds. **ACCESSION JN181062**.

4. **Firoozeh F**, Shahcheraghi F, Zahraei Salehi T, Aslani MM and Karimi V. *Salmonella enterica* subsp. *enterica* serovar Enteritidis strain SEFH-39 class I integron aminoglycoside adenyltransferase (*aadA2*) gene, complete cds.
5. Shahcheraghi F, **Firoozeh F**, Zahraei Salehi T, Aslani MM, Karimi V and Banisaeed R. *Salmonella enterica* subsp. *enterica* serovar Enteritidis strain SEFH-39 class I integron PSE-1 beta lactamase (*blaPSE-1*) gene, complete cds.
6. **Firoozeh F**, Shahcheraghi F, Zahraei Salehi T, Aslani MM and Karimi V. *Salmonella enterica* subsp. *enterica* serovar Paratyphi C strain SpcFH-6 class I integron dihydrofolate reductase (*dfrA5*) gene, complete cds.
7. Bagheri-Josheghani S, Moniri R, **Firoozeh F**, Sehat M. *Acinetobacter baumannii* topoisomerase IV subunit C (*parC*) gene, partial cds. GenBank: KP462891.
8. Bagheri-Josheghani S, Moniri R, **Firoozeh F**, Sehat M. *Acinetobacter baumannii* DNA gyrase A (*gyrA*) gene, partial cds GenBank: KP462890.1.
9. Bagheri-Josheghani S, Moniri R, **Firoozeh F**, Sehat M. *Acinetobacter baumannii* beta-lactamase OXA-51-like protein (*oxa-51*) gene, partial cds. GenBank: KP462889.1.
10. Bagheri-Josheghani S, Moniri R, **Firoozeh F**, Sehat M. *Acinetobacter baumannii* carbapenemase OXA-24 (*OXA-24*) gene, partial cds, GenBank: KP462888.1.
11. Bagheri-Josheghani S, Moniri R, **Firoozeh F**, Sehat M. *Acinetobacter baumannii* OXA23 carbapenemase-like (*oxa-23*) gene, partial sequence, GenBank: KP462887.1.
12. Shams E, **Firoozeh F**, Moniri R. *Klebsiella pneumoniae* strain MD62 beta-lactamase NDM-1 (*blaNDM-1*) gene, partial cds, GenBank: KP340793.1.
13. Shams E, **Firoozeh F**, Moniri R, Keshavarz S. *Klebsiella pneumoniae* strain ES61 aminoglycoside acetyltransferase gene, partial cds, GenBank: KP340792.1.
14. Shams E, **Firoozeh F**, Moniri R. *Klebsiella pneumoniae* strain MD93 QnrS (*qnrS*) gene, partial cds. GenBank: KP340791.1.
15. Shams E, **Firoozeh F**, Moniri R. *Klebsiella pneumoniae* strain ES93 QnrB (*qnrB*) gene, partial cds, GenBank: KP340790.1.

16. Amiri A, **Firoozeh F**, Keshavarz SH. *Klebsiella pneumoniae* strain VhR extended spectrum beta lactamase C-CTX-type-like gene, partial sequence, GenBank: KJ803829.1.
17. Amiri A, **Firoozeh F**, Keshavarz SH. *Klebsiella pneumoniae* strain Atn extended spectrum beta lactamase A-CTX-M-like gene, partial sequence, GenBank: KJ803828.1.
18. Badmasti F, **Firoozeh F**. *Acinetobacter baumannii* strain AB-12 plasmid class 1 integron Rifampin ADP-ribosylating transferase (arr-2) and major facilitator family efflux pump (cmlA5) genes, complete cds. GenBank: MZ361740.1.
19. **Badmasti F**, Firoozeh F. *Acinetobacter baumannii* strain AB-26 plasmid class 1 integron rifampin ADP-ribosylating transferase (arr-2), EreC (ereC), AadA1 (aadA1), and CmlA5 (cmlA5) genes, complete cds. GenBank: MZ361741.1.
20. **Badmasti F**, Firoozeh F. *Acinetobacter baumannii* strain AB-76 plasmid class 1 integron AAC(3)-Ic (aac(3)-Ic) and CmlA5 (cmlA5) genes, complete cds. GenBank: MZ361742.1.

XI. THESIS

1. Adeli Z (**MS thesis**). Prevalence of shiga toxins and intimin genes of *Escherichia coli* O157:H7 strains from urinary tract infections in Aleshtar. 2012. (**Supervisor**).
2. Soleimani-Asl Y (**MS thesis**). Molecular characterization of *qnrA* and *qnrB* genes in quinolone-resistant *Escherichia coli* isolated from urinary tract infections in Khorramabad. 2013. (**Supervisor**).
3. Nemati-Bidgoli F (**MS thesis**). The prevalence survey of uropathogenic *Escherichia coli* and *traT*, *PAI*, *cnf*, *aer*, *hly*, *afa*, *sfa*, *pap* virulence genes in strains isolated from hospitalized patients in Shahid Beheshti Hospital- Kashan. 2013. (**Supervisor**).
4. Amiri A (**MS thesis**). The survey of *Klebsiella spp* frequency and prevalence of *bla*_{CTX-M} and *bla*_{PER} genes among clinical specimens isolated from patients referred to Shahid Beheshti hospital in Kashan in 2012-2013. 2013. (**Supervisor**).
5. Ghanbarzadeh-Korehtash Z (**MS thesis**). The study of relationship between antibiotic resistance and virulence factors of *Pseudomonas aeruginosa*. 2013. (**Supervisor**).

6. Shamsolahrari E (**MS thesis**). Molecular characterization of plasmid-mediated quinolone resistance genes among Extended-Spectrum β -Lactamase producing *Klebsiella* isolated from clinical specimen of patients referred to Shahid Beheshti hospital in Kashan, 2013-2014. 2014. (**Supervisor**).
7. Bagher-Joshaghani S (**MS thesis**). Assessment prevalence of antibiotic resistance genes *blaOXA24*, *blaOXA51*, *blaOXA23*, *blaOXA58*, *ISAba1*, *gyrA* and *parC* in species of *Acinetobacter baumannii* isolated from hospitalized patients in beheshti hospital in 2013- 2014.Kashan. 2014. (**Supervisor**).
8. Mahluji Z (**MS thesis**). Molecular characterization of class I, II and III integrons in clinical multi-drug resistant *Klebsiella pneumoniae* isolates in Iran. 2015. (**Supervisor**).
9. Aghaseyed-Hosseini M (**MS thesis**). Prevalence survey of *blaKPC*, *blaGES* in *Klebsiella* isolated from hospitalized patient in Shahid Beheshti hospital in Kashan, in 2014. 2015. (**Supervisor**).
10. Pourbabaei M. M (**MS thesis**). Evaluation of metallo- β -lactamase-production and carriage of *bla-IMP-2*, *bla-IMP-1*, *bla-VIM-2*,*bla-VIM-1* genes in *Pseudomonas aeruginosa* isolated from burn patients hospitalized in Imam Mosa-Kazem Hospital in Isfahan. 2015. (**Supervisor**).
11. Soleimani-Morgchekhorti L (**MS thesis**). Evaluation of Pathogenicity Islands Markers (PAIs) among uropathogenic *E. coli* isolated from hospitalized patients in Shahid Beheshti hospital, Kashan. 2016. (**Supervisor**).
12. Karami S (**MS thesis**). Assessment of prevalence of biofilm associate resistance *ndvB* and *tssC1* genes and antibiotic resistance patterns in *Pseudomonas aeruginosa* isolated from ocular infections in Farabi Hospital. 2016. (**Supervisor**).
13. Zilae MR (**MS thesis**). Genotyping characterization of *Mycobacterium* non tuberculosis isolates among patients referred totuberculosis center in Kashan University of Medical Sciences. 2016. (**Supervisor**).

14. Yasliani M (**GP thesis**). The comparison of antibacterial effects of titanat nanostructure (AgTiO₃) and (TiO₂) against *Escherichia coli* and *Staphylococcus aureus*. 2016. (**Supervisor**).
15. Shiralinezhad A (**MS thesis**). Identification of the most prevalent bacteremia-causing bacteria in patients referred to Shahid Beheshti Hospital using real time PCR. 2018. (**Supervisor**).
16. Omid M (**MS thesis**). Molecular typing of *Staphylococcus aureus* isolated from patients referred to Shahid Beheshti Hospital using MLST. 2019. (**Supervisor**).
17. Roya Hasanzadeh (**GP thesis**). Evaluation of MRSA isolated from surgical samples in Shahid Beheshti Hospital in Kashan. 2019. (**Advisor**).
18. Ala Amiri (**MS thesis**). Extraction of genomic DNA of *E.coli* using Fe₃O₄ and SiO₂ magnetic nanoparticles. 2019. (**Supervisor**).
19. Hadis Rostami (**MS thesis**). Extraction of genomic DNA of *Staphylococcus aureus* using Fe₃O₄ and SiO₂ magnetic nanoparticles. 2019. (**Supervisor**).
20. Termeh Azizian (**MS thesis**). Synthesis and antimicrobial effects of silver nanoparticles alone and in combination with extracts of Ghalghaf gall. 2020. (**Supervisor**).
21. Mahnaz Nikibakhsh (**MS thesis**). Genotyping of *Acinetobacter* SPP Isolated from Burn Patients in Shahid Motahari Burns Hospital by MLST. 2021. (**Supervisor**).
22. Fatemeh Bakhshi (**MS thesis**). Genotyping of carbapenem resistant *Acinetobacter* species isolated from nasopharynx, intestine and hand of hospitalized patients and hospital staff in Shahid Motahari Burns Hospital by MLST. 2021. (**Supervisor**).
23. Zahra Amiri. (**GP thesis**). Evaluation of antimicrobial activity of silver nanoparticles synthesized by using extracts of Mazouj Galls on gram positive and gram negative bacteria. 2021. (**Supervisor**).
24. Hamid Hosseini (**MS thesis**). The study of *Toxocara* species using the PCR and Loop-mediated isothermal amplification (LAMP) methods in public areas in the Karaj District (**Advisor**).
25. Sadaf Jafari (**GP thesis**). In Vitro study lethal effects of various dilutions of *Capparis spinosa* on protoscolices of hydatid cysts (**Advisor**).

26. Parisa Kiani Sefiddashti (**GP thesis**) Study of the serological prevalence of *Toxocara canis* in pet dog owners who referred to the Educational and Medical Centers affiliated to Alborz University of Medical Sciences (**Advisor**).
27. Alireza Rahimpour Soleimani (**GP thesis**). In Vitro study the lethal effects of various dilutions of some medicinal smokes prescribed in Iranian traditional medicine on protoscolices of hydatid cysts (**Advisor**).
28. Azadeh Mirrajaei (**MD thesis**). Phylogenetic typing of *Escherichia coli* strains isolated from children with urinary tract infection referred to teaching hospitals in Alborz. In perform. (**Supervisor**).
29. Mohadeseh Shahsavan (**MS thesis**). The sub-inhibitory effect of azithromycin and ciprofloxacin on *virF* gene expression in EIEC and shigella flexneri. (**Supervisor**).
30. Nooshin Nazari (**MS thesis**). Prevalence and association of *Bacteroides fragilis* with expression level of MLH1, MSH2, MSH6 mismatch repair system gene in tissue samples of patients with colorectal cancer in referred to hospitals of Tehran province in comparison with control group. (**Supervisor**).
31. Majid Naderbandi (**MS thesis**). Experimental infection of *Toxocara cati* in BALB/c mice and its evaluation immigrant behavior using histopathological and molecular methods. (**Advisor**).
32. Zahra Hatami (**MS thesis**). Serological and molecular investigation of toxocariasis in acquired immunodeficiency syndrome patients in Alborz Province in 1400. (**Advisor**).
33. Nebras Mofleh (**GP thesis**). Evaluation of seroepidemiological co-infection toxocariasis and c referring to educational and therapeutic centers affiliated to Alborz University of Medical Sciences in the fifth peak of COVID-19 disease from July to September 1400. (**Advisor**).
34. Fatemeh Bakhshipour (**MS thesis**) Application of Real-time PCR and *Cox-1* gene in the diagnosis of human fasciolosis and comparison with indirect ELISA. (**Advisor**).