

**RESUME**  
**Professor Davood Darban Sarokhalil, PhD**

**1. Personal Information**

- **Name:** Davood Darban Sarokhalil
- **Birth date:** 04-28-1982
- **Nationality:** Iranian
- **Gender:** Male
- **Phone:** +982186703183
- **E-mail address:** davood\_darban@yahoo.com, darban.d@iums.ac.ir

**2. Education**

- **2018 – 2020**      **Fellowship in in Clinical Laboratory Sciences,** Isfahan University of Medical Sciences, Isfahan, Iran
- **2008 – 2011**      **Ph.D. in Medical Bacteriology,** Tehran University of Medical Sciences, Tehran, Iran
- **2004 – 2007**      **M.Sc. in Medical Microbiology,** Ahvaz University of Medical Sciences, Ahvaz, Iran
- **2000 – 2004**      **B.Sc. in Laboratory Sciences,** Urmia University, Urmia, Iran

**3. Academic Experience**

- **December 2011- September 2012**  
**Employer:** Shahrekord University of Medical Sciences  
**Position:** Assistant Professor
- **October 2012- October 2014**  
**Employer:** Alborz University of Medical Sciences  
**Position:** Assistant Professor
- **November 2014- November 2016**  
**Employer:** Iran University of Medical Sciences  
**Position:** Assistant Professor
- **December 2016- January 2021**  
**Employer:** Iran University of Medical Sciences

**Position:** Associate Professor

- **January 2021- Now**

**Employer:** Iran University of Medical Sciences

**Position:** Professor

**4. Achievement & Awards**

1. **Young Researcher Award of the year from the Vice Chancellor for Research and Technology at IUMS in 2015**

2. **Achieving Credit Excellent (20) in PhD dissertation**

3. **2<sup>nd</sup> place in the Nationwide Exam for admitting to Bachelor's Program**

4. **Best Oral Presentation Award in 8<sup>th</sup> Infectious Diseases and Clinical Microbiology Congress, Istanbul, Turkey in 2012**

**5. Publications: (Citations: 1212, H-index: 21)**

<https://scholar.google.com/citations?user=0xBFE1sAAAAJ&hl=en>

1. Bostanghadiri N, Jazi FM, Razavi S, Fattorini L, **Darban-Sarokhalil, D\***. M. tuberculosis and SARS-CoV-2 co-infections: A review. Front. Microbiol., 03 February 2022. <https://doi.org/10.3389/fmicb.2021.747827>
2. Bavari S, Mirkalantari S, Masjedian F, **Darban-Sarokhalil D**, Marani BG. Risk assessment and quantitative measurement along with monitoring of Legionella in hospital water sources. New Microbes and New Infections. 2021 Dec 24:100948. <https://doi.org/10.1016/j.nmni.2021.100948>
3. Shariati A, Vesal S, Khoshbayan A, Goudarzi P, **Darban-Sarokhalil D**, Razavi S, Didehdar M, Chegini Z. Novel strategies for inhibition of bacterial biofilm in chronic rhinosinusitis. Journal of Applied Microbiology. 2021 Dec 2. doi: 10.1111/jam.15398. Online ahead of print.
4. Bostanghadiri N, Ziaeefar P, Sameni F, Mahmoudi M, Hashemi A, **Darban-Sarokhalil, D\***. The controversial association of gut and urinary microbiota with kidney stone formation. Microbial Pathogenesis. 2021 Dec 1;161:105257. doi: 10.1016/j.micpath.2021.105257.
5. Khoshbayan A, Shariati A, Razavi S, Baseri Z, Ghodousi A, **Darban-Sarokhalil, D\***. Molecular Determinants of Colistin Resistance among Escherichia coli and Klebsiella pneumoniae Clinical Isolates Collected from Two Hospitals in Tehran. Accepted in Acta Microbiologica et Immunologica Hungarica 2022.
6. Dadashi M, Sharifian P, Bostanshirin N, Hajikhani B, Bostanghadiri N, Khosravi-Dehaghi N, Van Belkum A, **Darban-Sarokhalil, D\***. The Global Prevalence of Daptomycin, Tigecycline, and Linezolid-Resistant Enterococcus faecalis and Enterococcus faecium Strains from Human Clinical Samples; A systematic Review and Meta-Analysis. Frontiers in Medicine. 2021:1544. doi: <https://doi.org/10.3389/fmed.2021.720647>

7. Shariati A, Razavi S, Ghaznavi-Rad E, Jahanbin B, Akbari A, Norzaee S, **Darban-Sarokhalil, D\***. Association between colorectal cancer and *Fusobacterium nucleatum* and *Bacteroides fragilis* bacteria in Iranian patients: a preliminary study. *Infectious Agents and Cancer*. 2021 Dec;16(1): 41. doi: [10.1186/s13027-021-00381-4](https://doi.org/10.1186/s13027-021-00381-4)
8. Shahmoradi S, Shariati A, Zargar N, Yadegari Z, Asnaashari M, Amini SM, **Darban-Sarokhalil, D\***. Antimicrobial Effects of Selenium Nanoparticles in Combination with Photodynamic Therapy Against *Enterococcus faecalis* Biofilm. *Photodiagnosis and Photodynamic Therapy*. 2021 Jun 13:102398. doi: [10.1016/j.pdpdt.2021.102398](https://doi.org/10.1016/j.pdpdt.2021.102398)
9. Marashifard M, Jahanbin F, Zamanzadeh M, Jamshidi S, Mansouri F, Haeili M, Hosseini SA, Pourdeyan M, Mirzaii M, **Darban-Sarokhalil D**, Sharifi A. High Frequency of Integron-Associated Cassette Arrays Containing *dfrA* and *aad* Genes in Urinary Isolates of *Escherichia coli* in the Southwest of Iran. *Molecular Genetics, Microbiology and Virology*. 2021 Apr;36(2):104-10. doi: <https://doi.org/10.3103/S089141682102004X>
10. Khoshbayan A, Shariati A, Shahmoradi S, Baseri Z, Mozafari H, **Darban-Sarokhalil, D\***. Prevalence and molecular mechanisms of colistin resistance in *Acinetobacter baumannii* clinical isolates in Tehran, Iran. *Acta Microbiologica et Immunologica Hungarica*. 2021 Aug 9:202101420. doi: [10.1556/030.2021.01420](https://doi.org/10.1556/030.2021.01420)
11. Didehdar M, Khoshbayan A, Vesal S, Darban-Sarokhalil D, Razavi S, Chegini Z, Shariati A. An overview of possible pathogenesis mechanisms of *Alternaria alternata* in chronic rhinosinusitis and nasal polyposis. *Microbial Pathogenesis*. 2021 Apr 27:104905. doi: [10.1016/j.micpath.2021.104905](https://doi.org/10.1016/j.micpath.2021.104905)
12. Bagheri Hosseinabadi M, Khanjani N, Norouzi P, Faghihi-Zarandi A, **Darban-Sarokhalil D**, Khoramrooz SS, Mirbadie SR, Mirzaii M. The Effects of Antioxidant Vitamins on Proinflammatory Cytokines and Some Biochemical Parameters of Power Plant Workers: A Double-Blind Randomized Controlled Clinical Trial. *Bioelectromagnetics*. 2021 Jan;42(1):18-26. doi: [10.1002/bem.22294](https://doi.org/10.1002/bem.22294)
13. Khoshbayan A, Shariati A, Ghaznavi-Rad E, van Belkum A, **Darban-Sarokhalil, D\***. Prevalence and molecular epidemiology of ceftaroline non-susceptible methicillin-resistant *Staphylococcus aureus* isolates, first clinical report from Iran. *Acta Microbiologica et Immunologica Hungarica*. 2020 Dec 17;67(4):228-33. doi: [10.1556/030.2020.01273](https://doi.org/10.1556/030.2020.01273)
14. Rajabi S, **Darban-Sarokhalil D**, Tabatabaei RR, Hosseini F. Antimicrobial effect of spore-forming probiotics *Bacillus laterosporus* and *Bacillus megaterium* against *Listeria monocytogenes*. *Archives of Microbiology*. 2020 Dec;202(10):2791-7. doi: [10.1007/s00203-020-02004-9](https://doi.org/10.1007/s00203-020-02004-9)
15. Safavi M, Bostanshirin N, Hajikhani B, Yaslianifard S, van Belkum A, Goudarzi M, Hashemi A, **Darban-Sarokhalil D**, Dadashi M. Global genotype distribution of human clinical isolates of New Delhi metallo- $\beta$ -lactamase-producing *Klebsiella pneumoniae*; A systematic review. *Journal of Global Antimicrobial Resistance*. 2020 Nov 4. doi: [10.1016/j.jgar.2020.10.016](https://doi.org/10.1016/j.jgar.2020.10.016)
16. Shariati A, Dadashi M, Moghadam MT, van Belkum A, Yaslianifard S, **Darban-Sarokhalil D\***. Global prevalence and distribution of vancomycin resistant, vancomycin intermediate and heterogeneously vancomycin intermediate *Staphylococcus aureus*

- clinical isolates: a systematic review and meta-analysis. *Scientific reports*. 2020 Jul 29;10(1):1-6. doi: [10.1038/s41598-020-69058-z](https://doi.org/10.1038/s41598-020-69058-z)
17. Farahmand S, Haeili M, **Darban-Sarokhalil D**. Molecular Typing and Drug Resistance Patterns of *Staphylococcus aureus* Isolated From Raw Beef and Chicken Meat Samples. *Iranian Journal of Medical Microbiology*. 2020 Sep 10;14(5):478-89. doi: [10.30699/ijmm.14.5.478](https://doi.org/10.30699/ijmm.14.5.478)
18. Mottaghizadeh F, Shoja HM, Haeili M, **Darban-Sarokhalil D**. Molecular epidemiology and nitrofurantoin resistance determinants of nitrofurantoin-non-susceptible *Escherichia coli* isolated from urinary tract infections. *Journal of global antimicrobial resistance*. 2020 Jun 1;21:335-9. doi: [10.1016/j.jgar.2019.10.002](https://doi.org/10.1016/j.jgar.2019.10.002)
19. Shariati A, Dadashi M, Chegini Z, van Belkum A, Mirzaii M, Khoramrooz SS, **Darban-Sarokhalil D\***. The global prevalence of Daptomycin, Tigecycline, Quinupristin/Dalfopristin, and Linezolid-resistant *Staphylococcus aureus* and coagulase-negative staphylococci strains: a systematic review and meta-analysis. *Antimicrobial Resistance & Infection Control*. 2020 Dec;9(1):1-20. doi: [10.1186/s13756-020-00714-9](https://doi.org/10.1186/s13756-020-00714-9)
20. Dadashi M, Hajikhani B, **Darban-Sarokhalil D**, van Belkum A, Goudarzi M. Mupirocin resistance in *Staphylococcus aureus*: A systematic review and meta-analysis. *Journal of global antimicrobial resistance*. 2020 Mar 1;20:238-47. doi: [10.1016/j.jgar.2019.07.032](https://doi.org/10.1016/j.jgar.2019.07.032)
21. Dadashi M, Yaslianifard S, Hajikhani B, Kabir K, Owlia P, Goudarzi M, Hakemivala M, **Darban-Sarokhalil D**. Frequency distribution, genotypes and prevalent sequence types of New Delhi metallo- $\beta$ -lactamase-producing *Escherichia coli* among clinical isolates around the world: a review. *Journal of global antimicrobial resistance*. 2019 Dec 1;19:284-93. doi: [10.1016/j.jgar.2019.06.008](https://doi.org/10.1016/j.jgar.2019.06.008)
22. Ohadi E, Khoramrooz SS, Kalani BS, Mirzaii M, Pouriran R, Nasrabadi MR, **Darban-Sarokhalil D\***. Evaluation of high-resolution melting analysis for spa-typing of methicillin-resistant and-susceptible *Staphylococcus aureus* isolates. *New Microbes and New Infections*. 2019 Nov 1;32:100618. doi: [10.1016/j.nmni.2019.100618](https://doi.org/10.1016/j.nmni.2019.100618)
23. Heidary M, Nasiri MJ, Mirsaedi 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 Jul;234(7):9994-10001. doi: [10.1002/jcp.27859](https://doi.org/10.1002/jcp.27859)
24. Moradi S, Nasiri MJ, Dadashi M, **Darban-Sarokhalil D\***. Optimized Method for Isolation of Nontuberculous Mycobacteria from Hospital Aquatic Sources. *Iranian Journal of Medical Microbiology*. 2019 Dec 10;13(5):346-54. doi: [10.30699/ijmm.13.5.346](https://doi.org/10.30699/ijmm.13.5.346)
25. Lohrasbi V, Shirmohammadlou N, **Darban-Sarokhalil, D\***. Fifty years of success in controlling tuberculosis in Iran, the question is how?. *Infection Control & Hospital Epidemiology*. 2019 Apr;40(4):498-9. doi: [10.1017/ice.2019.30](https://doi.org/10.1017/ice.2019.30)
26. Moradi S, Nasiri MJ, Pourahmad F, **Darban-Sarokhalil, D\***. Molecular characterization of nontuberculous mycobacteria in hospital waters: a two-year surveillance study in Tehran, Iran. *Journal of water and health*. 2019 Apr 1;17(2):350-6. doi: [10.1017/ice.2019.30](https://doi.org/10.1017/ice.2019.30)

27. Marashifard M, Aliabad ZK, Hosseini SA, **Darban-Sarokhalil D**, Mirzaii M, Khoramrooz SS. Determination of antibiotic resistance pattern and virulence genes in *Escherichia coli* isolated from bovine with subclinical mastitis in southwest of Iran. *Tropical animal health and production*. 2019 Mar;51(3):575-80. doi: [10.1007/s11250-018-1726-0](https://doi.org/10.1007/s11250-018-1726-0)
28. **Darban-Sarokhalil D\***. Infections in Iran. *New Microbes New Infections*. 2019; 27, pp. 7-8. doi: <https://doi.org/10.1016/j.nmni.2018.10.007>
29. Shivaee A, Kalani BS, Talebi M, **Darban-Sarokhalil, D\***. Does biofilm formation have different pathways in *Staphylococcus aureus*? *Iranian journal of basic medical sciences*. 2019 Oct;22(10):1147. doi: [10.22038/ijbms.2019.34888.8281](https://doi.org/10.22038/ijbms.2019.34888.8281)
30. 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;12:3425. doi: [10.2147/IDR.S221408](https://doi.org/10.2147/IDR.S221408)
31. Mir Z, Farahani NN, Abbasian S, Alinejad F, Sattarzadeh M, Pouriran R, Dahmardehei M, Mirzaii M, Khoramrooz SS, **Darban-Sarokhalil D\***. The prevalence of exotoxins, adhesion, and biofilm-related genes in *Staphylococcus aureus* isolates from the main burn center of Tehran, Iran. *Iranian journal of basic medical sciences*. 2019 Nov;22(11):1267. doi: [10.22038/ijbms.2019.34908.8291](https://doi.org/10.22038/ijbms.2019.34908.8291)
32. 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*. 2018 Dec 1;120:180-8. doi: [10.1016/j.ijbiomac.2018.08.037](https://doi.org/10.1016/j.ijbiomac.2018.08.037)
33. 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 Nov 1;26:118-23. doi: [10.1016/j.nmni.2018.09.008](https://doi.org/10.1016/j.nmni.2018.09.008)
34. Abbasian S, Farahani NN, Mir Z, Alinejad F, Haeili M, Dahmardehei M, Mirzaii M, Khoramrooz SS, Nasiri MJ, **Darban-Sarokhalil D\***. Genotypic characterization of *Staphylococcus aureus* isolated from a burn centre by using agr, spa and SCCmec typing methods. *New microbes and new infections*. 2018 Nov 1;26:15-9. doi: [10.1016/j.nmni.2018.08.001](https://doi.org/10.1016/j.nmni.2018.08.001)
35. Bijari A, Zade MH, Hatami S, Kalantar E, Sepehr MN, Kabir K, Zahmatkesh E, Naseri MH, **Darban-Sarokhalil D\***. High frequency of methicillin-resistant *Staphylococcus aureus* in intensive care unit in Karaj, Iran. *Archives of Clinical Infectious Diseases*. 2018;13(5). doi: [10.1556/030.64.2017.020](https://doi.org/10.1556/030.64.2017.020)
36. 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 Sep 1;105:1353-9. doi: [10.1016/j.biopha.2018.06.023](https://doi.org/10.1016/j.biopha.2018.06.023)
37. Razavi S, Dadashi M, Pormohammad A, Khoramrooz SS, Mirzaii M, Gholipour A, **Darban-Sarokhalil D\***. Methicillin-resistant *Staphylococcus epidermidis* in Iran: A systematic review and meta-analysis. *Archives of Clinical Infectious Diseases*. 2018;13(4). doi: [10.5812/archcid.58410](https://doi.org/10.5812/archcid.58410)

38. Mirzaii M, Jamshidi S, Zamanzadeh M, Marashifard M, Hosseini SA, Haeili M, Jahanbin F, Mansouri F, **Darban-Sarokhalil D**, Khoramrooz SS. Determination of gyrA and parC mutations and prevalence of plasmid-mediated quinolone resistance genes in Escherichia coli and Klebsiella pneumoniae isolated from patients with urinary tract infection in Iran. Journal of global antimicrobial resistance. 2018 Jun 1;13:197-200. doi: [10.1016/j.jgar.2018.04.017](https://doi.org/10.1016/j.jgar.2018.04.017)
39. Mohammadi F, Eshaghi M, Razavi S, **Darban-Sarokhalil D**, Talebi M, Pourshafie MR. Characterization of bacteriocin production in Lactobacillus spp. isolated from mother's milk. Microbial pathogenesis. 2018 May 1;118:242-6. doi: [10.1016/j.micpath.2018.03.020](https://doi.org/10.1016/j.micpath.2018.03.020)
40. 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 Mar 1;109:17-27. doi: [10.1016/j.tube.2017.12.002](https://doi.org/10.1016/j.tube.2017.12.002)
41. Asadollahi P, Farahani NN, Mirzaii M, Khoramrooz SS, Van Belkum A, Asadollahi K, Dadashi M, **Darban-Sarokhalil D\***. Distribution of the most prevalent spa types among clinical isolates of methicillin-resistant and-susceptible Staphylococcus aureus around the world: a review. Frontiers in microbiology. 2018 Feb 12;9:163. doi: <https://doi.org/10.3389/fmicb.2018.00163>
42. Ghanavati R, **Darban-Sarokhalil D**, Navab-Moghadam F, Kazemian H, Irajian G, Razavi S. First report of coexistence of AmpC beta-lactamase genes in Klebsiella pneumoniae strains isolated from burn patients. Acta microbiologica et immunologica Hungarica. 2017 Dec;64(4):455-62. doi: [10.1556/030.64.2017.028](https://doi.org/10.1556/030.64.2017.028)
43. Bibalan MH, Eshaghi M, Rohani M, Esghaei M, **Darban-Sarokhalil D**, Pourshafie MR, Talebi M. Isolates of Lactobacillus plantarum and L. reuteri display greater antiproliferative and antipathogenic activity than other Lactobacillus isolates. Journal of medical microbiology. 2017 Oct 1;66(10):1416-20. doi: [10.1099/jmm.0.000591](https://doi.org/10.1099/jmm.0.000591)
44. Bayat B, Zade MH, Mansouri S, Kalantar E, Kabir K, Zahmatkesh E, Sepehr MN, Naseri MH, **Darban-Sarokhalil D\***. High frequency of methicillin-resistant Staphylococcus aureus (MRSA) with SCC mec type III and spa type t030 in Karaj's teaching hospitals, Iran. Acta microbiologica et immunologica Hungarica. 2017 Sep;64(3):331-41. doi: [10.1556/030.64.2017.020](https://doi.org/10.1556/030.64.2017.020)
45. Sadr S, **Darban-Sarokhalil D**, Irajian GR, Fooladi AA, Moradi J, Feizabadi MM. An evaluation study on phenotypical methods and real-time PCR for detection of Mycobacterium tuberculosis in sputa of two health centers in Iran. Iranian journal of microbiology. 2017 Feb;9(1):38. PMID: [PMC5534003](https://pubmed.ncbi.nlm.nih.gov/35534003/)
46. Gholipour A, **Darban-Sarokhalil D**, Heibati-Goujani F. A frequency and molecular typing study of methicillin-resistant staphylococcus aureus isolates in teaching hospitals in Shahrekord, southwestern Iran. Jundishapur Journal of Microbiology. 2017;10(1). doi: [10.5812/jjm.39654](https://doi.org/10.5812/jjm.39654)
47. Aghayan SS, Mogadam HK, Fazli M, **Darban-Sarokhalil D**, Khoramrooz SS, Jabalameli F, Yaslianifard S, Mirzaii M. The effects of berberine and palmatine on efflux pumps inhibition with different gene patterns in Pseudomonas aeruginosa isolated from



burn infections. Avicenna journal of medical biotechnology. 2017 Jan;9(1):2. PMID: [28090273](https://pubmed.ncbi.nlm.nih.gov/28090273/)

48. Khoramrooz SS, Dolatabad SA, Dolatabad FM, Marashifard M, Mirzaii M, Dabiri H, Haddadi A, Rabani SM, Shirazi HR, **Darban-Sarokhalil D**. Detection of tetracycline resistance genes, aminoglycoside modifying enzymes, and coagulase gene typing of clinical isolates of *Staphylococcus aureus* in the Southwest of Iran. Iranian journal of basic medical sciences. 2017 Aug;20(8):912. . doi: [10.22038/IJBMS.2017.9114](https://doi.org/10.22038/IJBMS.2017.9114)

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## 1. Reviewer

- Associate Editor of Jundishapur Journal of Microbiology
- Guest Editor and Reviewer of New Microbes and New Infections
- Guest Editor and Reviewer of Frontiers in Microbiology
- Reviewer of Iranian Journal of Medical Microbiology
- Reviewer of Annals of Clinical Microbiology and Antimicrobials
- Reviewer of Burns
- BMC Microbiology

## 2. Memberships

- Member of American Society of Microbiology
- Member of Iranian Society of Microbiology
- Member of Iranian Association of Clinical Laboratories
- Member of European Respiratory Society

### **3. Certificates**

#### **Conferences**

- Scientific Committee in 19<sup>th</sup> International & Iranian congress of Microbiology in Tehran, Iran, 2018
- Panel member in 12<sup>th</sup> International Prof. Alborzi Clinical microbiology congress, Kerman, Iran, 2018
- Scientific Committee in 18<sup>th</sup> International & Iranian congress of Microbiology in Tehran, Iran, 2017
- Scientific Committee in 8<sup>th</sup> International Congress of Laboratory and Clinic, Tehran, Iran, 2016
- Panel member in 8<sup>th</sup> International Congress on Pulmonary Diseases, Intensive Care and Tuberculosis, Tehran, Iran, 2017
- Scientific Committee in 15<sup>th</sup> International & Iranian congress of Microbiology in Tehran, Iran, 2014
- Scientific Committee in 6<sup>th</sup> International Congress of Laboratory and Clinic, Tehran, Iran, 2014
- Executive Committee in 5<sup>th</sup> International Congress of Laboratory and Clinic, Tehran, Iran, 2013
- Oral Presentation in 4<sup>th</sup> Infectious Diseases & Clinical Microbiology (EKMUD) Congress, İstanbul, Turkey, 2012
- Scientific Committee in 12<sup>th</sup> International Iranian congress of microbiology, Kermanshah, Iran, 2011

### **4. Skills**

- Real-time PCR
- Molecular typing methods of bacteria
- Primer and probe designing for molecular methods
- Routine microbiology methods and antibiotic susceptibility test
- MALDI-TOF
- Epidemiology and Antibiotic Susceptibility test of *Mycobacterium tuberculosis*
- Urine analysis and Clinical laboratory tests (biochemical and hematological)

### **5. Research Interests**

- Antimicrobial resistance
- Molecular epidemiology of bacteria
- Vaccine
- Nanoparticles and other antimicrobial agents
- Next Generation sequencing (NGS)
- Rapid detection of microbes specially respiratory infectious agents
- Rapid detection and molecular epidemiology of *Mycobacterium spp.*
- Microbiota