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## **EDUCATION**

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|------------|---------------------------------------------------------------------------------------------|
| 2012- 2015 | Ph.D by Research in Medical bacteriology. Iran University of Medical Sciences, Tehran, Iran |
| 2008-2011  | M.sc. in Microbiology, Azad University of Karaj, Karaj, Iran                                |
| 2002-2005  | B.sc. in Microbiology, Azad University of Karaj, Karaj, Iran                                |

## **PROFESSIONAL EXPERIENCE**

- 2010-2014: Researcher in Antimicrobial Resistance Research Center, Iran University of Medical Science, Tehran, Iran
- 2014-2016 present: Researcher in Pediatric Infections Research Center, Research Institute for Children Health, Shahid Beheshti University of Medical Sciences, Tehran, Iran
- 2016-present: Assistant Professor in Pediatric Infections Research Center, Research Institute for Children Health, Shahid Beheshti University of Medical Sciences, Tehran, Iran

## **PROFESSIONAL ASSOCIATION MEMBERSHIP**

- 2010 up to now: Member of Iranian Society of Medical Bacteriology

**Autour h index (SCOPUS) : 17**

**Autour h index (Google Scholar) : 24**

## PROFESSIONAL ASSOCIATION MEMBERSHIP

- Member of Iranian Society for Medical Bacteriology, 2011-present

### International course

Identification and typing of agents of acute bacterial meningitis organized at the Pasteur, Paris, France in collaboration with the Centers for Disease Control and Prevention, CDC, Atlanta, Georgia, USA. This course included theoretical lectures as well as molecular bacteriology including real time PCR. The course was held in Paris, France between the 14<sup>th</sup> and 25<sup>th</sup> May 2018

### Executive Activity

- Executive activity in the workshop for 3 days (24 hours) in Survey of antibiotic resistance pattern in ten threatening bacteria in IRAN: by phenotyping and genotyping methods. National Institute for Medical Research Development (NIMAD). Grant number: 940290.
- Executive activity in the workshop for one day (8 hours) in A cohort study tracing latent and active infection with *Mycobacterium tuberculosis* in Iranian exposed people predicting by Quantiferon, PPD and Interferon Gamma Inducible Protein 10 ( in all household exposed ). National Institute for Medical Research Development (NIMAD). Grant number: 942732.
- Reviewer of Archives of Pediatric Infectious Diseases, Pediatric infections Research Center
- Associated Editor of Archives of Pediatric Infectious Diseases, Pediatric infections Research Center

### Educational Activity

- Pediatric Infectious Disease fellowships and resident. Theoretical.
- Pediatric Infectious Disease fellowships and resident. Practical.
- Instructor of theoretical and practical workshops

## PUBLICATIONS

1. Seyed Hossein Ardehali , Hannan Khodaei , Mani Shalchi Zadeh Khameneh Poor, **Leila Azimi**, Maryam Rajabnejad , Samane Rahimi , Azar Dokht Kazemi. Investigation of SARS-CoV-2 in Nasopharyngeal and Stool Specimens of Children Hospitalized with COVID-19: A Single-Center Study in Tehran, Iran. Arch Pediatr Infect Dis. 2026 January; 14(1): e161178
2. Hannan Khodaei, **Leila Azimi**, Abbas Akhavan Sepahi, Fatemeh Ashrafi, Maryam, Rajabnejad. Enhanced RNA Extraction from Stool Samples Using Fe-MSN Nanoparticles: A Comparative Study with Magnetic Beads and Silica Columns. Arch Pediatr Infect Dis. 2026 January; 14(1): e164719
3. **Leila Azimi**, Hadi Hasani, Abdollah Karimi, et al. Virulent genes related to the synthesis of community interaction factors among clinical samples of multidrug-resistant *Acinetobacter baumannii* in Iran. GMS Hygiene and Infection Control 2025, Vol. 20, ISSN 2196-5226
4. **Leila Azimi**, Hadi Hasani, Abdollah Karimi, Alireza Fahimzad, Fatemeh Fallah, Shima Fatehi, Shahnaz Armin, Mohammadreza Sadr. Association Between Antibiotic Resistance Patterns and Analysis of Virulence Genes in Multi-drug Resistant *Acinetobacter baumannii* in Iran (2018). Arch Clin Infect Dis. 2025 October; 20(5): e158607
5. Parisa Eslami , Mohammad Rahbar, Fatemeh Panah, **Leila Azimi**, Leila Ganji. In-vitro Susceptibility of Fosfomycin Against XDR – *Klebsiella pneumoniae* Isolated from Urine. Shiraz E-Med J.; In Press(In Press): e159470
6. Masoumeh Sadat Montazeri , Hannan Khodaei, **Leila Azimi** , Masoud Alebouyeh, Roxana Mansour Ghanaiee, Mohammad Rahbar, Abdollah Karimi. Frequency of

- Bacteria Causing Exudative Diarrhea in Children Less Than Five Years Old in a Tertiary Hospital, Iran. Arch Pediatr Infect Dis. 2025 January; 13(1): e150600
7. Raheleh Razmara, Shahnaz Armin, Sepideh Mirzayi, **Leila Azimi**, Abdollah Karimi. Evaluation of Health Care Commitment with Prevention and Infection Control. Arch Pediatr Infect Dis. 2025 April; 13(2): e149006
  8. Control Protocols in Mofid Children Hospital, Iran. Arch Pediatr Infect Dis. 2025 April; 13(2): e149006
  9. **Leila Azimi**, Fatemeh Shirkavand, Shahnaz Armin, et al. Design and development of primers for detection of Streptococcus pneumoniae, Haemophilus influenzae, and Neisseria meningitidis. GMS Hygiene and Infection Control 2025, Vol. 20, ISSN 2196-5226
  10. Ali Mohammad Mirdehghan, **Leila Azimi**, Amir Mahdi Paksaz. Efficacy of Blue-CARBA Test for Detection of Carbapenemase in Acinetobacter baumannii Isolated from Burn Patients. J Med Bacteriol. Vol. 13, No. 1 (2025): pp.33-39
  11. Ali Mohammad Mirdehghan, **Leila Azimi**, Amir Mahdi Paksaz. The importance of antibiotic resistance in Pseudomonas aeruginosa and Acinetobacter baumannii and its status in Iran. Med J Tabriz Uni Med Sciences. 2025;47(2):121-123.
  12. Azam Safarkhani, Fatemeh Shirkavand, Nafiseh Abdollahi<sup>1</sup>, Nazanin Ahari Oskooie<sup>2</sup>, **Leila Azimi**, et al. An analysis of the efficacy of universal PCR and BACTEC 9120 BD for identifying bacteremia in pediatrics. GMS Hygiene and Infection Control 2024;19,1-5
  13. Maryam Rajabnejad, **Leila Azimi**, et al. Diagnosis of Causative Acute Childhood Viral Diarrhea by Multiplex Real-Time PCR Among Children in a Referral Hospital, Tehran, Iran. Arch Pediatr Infect Dis. 2024 October; 12(4): e150816
  14. Fatemeh Fallah, Abdollah Karimi, **Leila Azimi**, et al. The impact of the COVID-19 pandemic on pediatric bloodstream infections and alteration in antimicrobial

- resistance phenotypes in Gram-positive bacteria, 2020–2022. BMC pediatrics. 2024;24(1): 1-12
15. sim Sabzivand, Shiva Nazari, Fariba Shirvani, **Leila Azimi**, et al. Epidemiology and antimicrobial resistance of toxin-producing *Klebsiella oxytoca* clinical isolates from children admitted to the oncology chemotherapy center in Mofid Children's Hospital in Tehran, Iran: A cross-sectional study. Health Science Reports. 2024;7(8): e2275
  16. **Leila Azimi**, Hadi Hasani, Abdollah Karimi, et al. Characterization of genes involved in the iron acquisition system of multidrug-resistant *Acinetobacter baumannii*. GMS Hygiene and Infection Control. 2024;19:1-4
  17. Masoud Alebouyeh, Nasim Almasian Tehrani, Fatemeh Fallah, **Leila Azimi**, et al. Protective effects of different lyoprotectants on survival of clinical bacterial isolates in a hospital biobank. Cryobiology. 2024;115: 104891
  18. Hannan Khodaei, **Leila Azimi**, et al. Improved heat shock method for extracting total RNA from nasopharyngeal swab samples even with low viral load. Diagnostic Microbiology and Infectious Disease. 2024; 109(10): 116210
  19. Taher Azimi, Sina Nasrollahian, Sahar Sabour, Nahal Hadi, **Leila Azimi**, e al. Detection of *Yersinia enterocolitica*, *Shigella* spp. and *Salmonella* spp. in *Rattus norvegicus* captured from Tehran, Iran. Future Microbiology. (Short communication). 2024;19(5): 377-384
  20. aziyeh Baharvand, Fatemeh Fallah, Parvaneh Jafari, **Leila Azimi**. Co-colonization of methicillin-resistant *Staphylococcus aureus* and *Candida* spp. in children with malignancies. AMB Express. 2024;14(1):22
  21. Taher Azimi, Sina Nasrollahian, Sahar Sabour, Mehrdad Mosadegh, Nahal Hadi, **Leila Azimi**, et al. Intestinal Colonization by *Campylobacter jejuni*, *Clostridium*

- difficile, and Clostridium perfringens among Commensal Rattus norvegicus in the Urban Areas of Tehran, Iran. BioMed Research International. 2024;2024(1): 2929315
22. Reyhaneh Alipoor Rafie, **Leila Azimi**, Shahnaz Armin, Amirali Aghamohammadi, Abdollah Karimi, Fatemeh Fallah, Hannan Khodaei, Roxana Mansour Ghanaie, Masoud Alebouyeh. Evaluation of Covid-19 anti-spike IgG antibody five months after the second Covid-19 vaccination. GMS Hygiene and Infection Control 2023, Vol. 18:1-5
  23. Sedigheh Rafiei Tabatabaei, Marjan Tariverdi, Abdollah Karimi, Ali Nazari-Alam, Hannan Khodaei, Leila Azimi. Sequence-type diversity of invasive Streptococcus pneumoniae isolates in Iran among children under 15 years of age. GMS Hygiene and Infection Control 2023, Vol. 18:1-4
  24. Abdollah Karimi, Sedigheh Rafiei Tabatabaei, **Leila Azimi**, Nasim Almasian Tehrani, Fatemeh Fallah, Iman Faghihian. Tracing the Negative Results of Multiplex Real-Time PCR Assay for Diagnosis of Bacterial Pediatrics Meningitis. Canadian Journal of Infectious Diseases and Medical Microbiology. 2023;2023:1-5
  25. Nasim Almasian Tehrani, **Leila Azimi**, Shahnaz Armin, Neda Soleimani, Fatemeh Fallah. Endogenous Bacteremia Caused by Intestinal Colonization of Carbapenem-Resistant Enterobacteriaceae (CRE) in Immunocompromised Children. Trop. Med. Infect. Dis. 2023, 8, 402.
  26. Abdollah Karimi 1, Bibi Shahin Shamsian 3, Shiva Nazari 1 and Masoud Alebouyeh
  27. Nasim Almasian Tehrani, Masoud Alebouyeh, Shahnaz Armin, Neda Soleimani, Abdollah Karimi, Bibishahin Shamsian, Shiva Nazari, **Leila Azimi**. Intestinal Carriage of Carbapenemase-Producing Enterobacteriaceae Members in Immunocompromised Children During COVID-19 Pandemic. Archives of Pediatric Infectious Diseases. 2023;11(1): e127183

28. Shahnaz Armin, Fatemeh Fallah, Abdollah Karimi, Fereshteh Karbasiyan, Masoud Alebouyeh, Sedigheh Rafiei Tabatabaei, Maryam Rajabnejad, Roxana Mansour Ghanaie, Seyed Alireza Fahimzad, Nafiseh Abdollahi, Hannan Khodaei, **Leila Azimi**. Antibiotic Susceptibility Patterns for Carbapenem-Resistant Enterobacteriaceae. International Journal of Microbiology. 2023;2023:
29. Shahnaz Armin, **Leila Azimi**, Ghazal Shariatpanahi, Armin Shirvani, Nasim Almasian Tehrani. The Prevalence of Colonization with Carbapenem-resistant Enterobacteriaceae, E. coli, Klebsiella and Enterobacter, and Related Risk Factors in Children. Archives of Pediatric Infectious Diseases. 2023;11(2):e134518.
30. Abdollah Karimi, Maryam Manaberi, **Leila Azimi**, Naeeme Taslimi Taleghani, Fariba Shirvani, Maryam Khoshnood Shariati, Roya Jamali, Seyed Abolfazl Afjehi, Maryam Rajabnejad. Incidence and Prognosis of Congenital Cytomegalovirus Infection, a Retrospective Single-Center Experience, Tehran, Iran. Archives of Pediatric Infectious Diseases. 2023;11(4):e135767.
31. **Leila Azimi**, Fatemeh Fallah, Abdollah Karimi, et al. Prevalence and Antimicrobial Resistance Patterns in ESKAPE Pathogens in Iran. Archives of Pediatric Infectious Diseases. 2023;11(1): e129629
32. Masoud Alebouyeh, Fariba Shirvani, Romina Hassanzadeh, Taher Azimi, Ghazale Ghandchi, Nafiseh Abdollahi, Zari Gholinejad, Azita Behzad, Zahra Sheikhi, Fatemeh Fallah, **Leila Azimi**, et al. Intestinal colonization of vancomycin-resistant Enterococcus in children admitted to Mofid children's hospital intensive care unit at admission and at discharge. Molecular Biology Reports. 2023; 1-11
33. Leily Mohajerzadeh, Manoochehr Ebrahimian, Mehdi Sarafi, Gholamreza Ebrahimisaraj, Sedigheh Rafiei Tabatabaei, Seyed Mahmood Noorbakhsh, Ali Kaveh, Hossein Taheri, **Leila Azimi**, Masoud Alebouyeh. Effects of COVID-19 Pandemic on

- the Frequency of Complicated Appendicitis in Pediatric Populations. Archives of Pediatric Infectious Diseases. 2023;11(1): e129026
34. Fatemeh Fallah, Ensieh Lotfali, **Leila Azimi**, Hannan Khodaei, Maryam Rajabnejad, Nafiseh Abdollahi, Hossein Tayebi, Saham Ansari, Saeedeh Yaghoubi, Abdollah Karimi. The First Fungal Identification from Mini-BAL of Critical COVID-19 Patients. Archives of Pediatric Infectious Diseases. 2023;11(4):e136153.
  35. Roxana Mansour Ghanaie, Idesbald Boone, Ahmad Reza Shamshiri, Abdollah Karimi, Arezu Amirali, Noushin Marhamati, Mohammad Hossein Rostami, Niloofar Pashaei, Shahriar Janbazi, **Leila Azimi**, et al. Seroepidemiological and Molecular Survey for the Detection of SARS-CoV-2 Infection among Children in Iran, September 2020 to June 2021: 1-Year Cross-Sectional Study. Microorganisms 2023, 11, 1672.
  36. Roxana Mansour Ghanaie, Mahnaz Jamee, Hannan Khodaei, Armin Shirvani, Arezu Amirali, Abdollah Karimi, Fatemeh Fallah, Leila Azimi, et al. Assessment of early and post COVID-19 vaccination antibody response in healthcare workers: a multicentre cross-sectional study on inactivated, mRNA and vector-based vaccines. Epidemiology & Infection. 2023;151: e12
  37. Taher Azimi, Sina Nasrollahian, Sahar Sabour, Nahal Hadi, **Leila Azimi**, et al. The first evidence of Seoul hantavirus, hepatitis E virus and rabies virus in Rattus norvegicus in Tehran, Iran. Future Virology. 2023; Epub ahead of print (short communication)
  38. Maryam Zendehtrouh, Abdollah Karimi, Leila Azimi. Respiratory Viral Infections Among Children Hospitalized in a Great Referral Hospital in Iran During the Coronavirus Pandemic. Archives of Pediatric Infectious Diseases. 2023;11(3):e136943.



39. Raziye Baharvand, Fatemeh Fallah, Parvaneh Jafari, **Leila Azimi**. The high frequency of *mecA* and *Als3p* genes among *Staphylococcus aureus* and *Candida* species isolated from patients with malignancies on chemotherapy. *Human Gene*. 2022; 33 (2022) 201076
40. Shahnaz Armin, Abdollah Karimi, Masoud Alebouyeh, Sedigheh Rafiei Tabatabaei, Maryam Rajabnejad, Roxana Mansour Ghanaiee, Seyed Alireza Fahimzad, Nafiseh Abdollahi, **Leila Azimi**. Evaluate the Modified Carbapenem Inactivation Method for Phenotypic Detection of Carbapenemase Production Among Gram-Negative Bacteria. *Archives of Pediatric Infectious Diseases*. 2022, October; 10(4):e121814.
41. **Leila Azimi**, Shahnaz Armin, Hossein Samadi Kafil, Nafiseh Abdollahi, Kiarash Ghazvini, Sepide Hasanzadeh, Shahram Shahraki Zahedani, Sedigheh Rafiei Tabatabaei, Fatemeh Fallah. Evaluation of phenotypic and genotypic patterns of aminoglycoside resistance in the Gram-negative bacteria isolates collected from pediatric and general hospitals. *Molecular and cellular pediatrics*. 2022;9(2):1-8
42. Raziye Baharvand, Fatemeh Fallah, Parvaneh Jafari, **Leila Azimi**. The high frequency of *mecA* and *Als3p* genes among *Staphylococcus aureus* and *Candida* species isolated from patients with malignancies on chemotherapy. *Human Gene*, 2022;33: 201076
43. Sedigheh Rafiei Tabatabaei, Ahmadreza Shamshiri, **Leila Azimi**, Ali Nazari-Alam, Abdollah Karimi, Seyed Alireza Mirjavadi, Marjan Tariverdi. Co-infection with dual *Streptococcus pneumoniae* serotypes as a cause of pediatric bacterial meningitis in Iran: a multi-center cross-sectional study. *BMC Infectious Diseases*. 2022;22(1): 1-5
44. F Najafi, H Ahmadi, A Maghsoumi, K Huma, A Amini, **L Azimi**, A Karimi, M Bayat, N Naseri. Size-dependent molecular interaction of nontraditional 2D antibiotics with *Staphylococcus aureus*. *Biomedical Materials*. 2022,18 (1): 015013

45. Babak Pakbin, Afshin Akhondzadeh Basti, Ali Khanjari, Wolfram Manuel Brück, **Leila Azimi**, Abdollah Karimi. Development of high-resolution melting (HRM) assay to differentiate the species of *Shigella* isolates from stool and food samples. *Scientific Reports*. 2022;12(473):1-13
46. Roxana Mansour Ghanaie, Abdollah Karimi, Seyedeh Mahsan Hoseini-Alfatemi, James A Seddon, Mahshid Nasehi, Payam Tabarsi, Seyed Alireza Fahimzad, Shahnaz Armin, Javad Akbarizadeh, Elahe Rahimarbabi, **Leila Azimi**. Household contact investigation for the detection of active tuberculosis and latent tuberculosis: a comprehensive evaluation in two high-burden provinces in Iran. *New Microbes and New Infections*. 2022; 45: 100958
47. Taher Azimi, Fatemeh Fallah , Mohammad Reza Pourmand, Abdollah Karimi, Shahnaz Armin, Mohammad Rahbar, **Leila Azimi**. Is the *Rattus norvegicus* Population Playing a Role in the Transmission of Zoonotic Diseases to Children? A Pilot Study in Tehran, Iran. *Arch Pediatr Infect Dis*. 2021 October; 9(4):e113203.
48. Shirin Sayyahfar, Abdoulreza Esteghamati, Seyed Alireza Fahimzad, Safura Hajisadeghi Isfahani , Ali Nazari Alam, **Leila Azimi**. Serotype Distribution of *Streptococcus pneumoniae* Carriage in Six-Month-Old Infants: A Cross-sectional Study During 2017-18, Tehran, Iran. *Arch Pediatr Infect Dis*. In Press(In Press):e112705.
49. Mohammadreza Sadr, Seyed Alireza Fahimzad, Abdollah Karimi, Fatemeh Fallah, Shahnaz Armin, Nasim Almasian Tehrani, Ahmad Reza Shamshiri, **Leila Azimi**. Antimicrobial resistance and molecular epidemiology of virulence genes among multi-drug resistant *Acinetobacter baumannii* clinical isolates in Iran. *Gene Reports*. 2021; 24 (2021) 101281

50. Taher Azimi, **Leila Azimi**, Fatemeh Fallah, Mohammad Reza Pourmand, Abbas Ostadtaghizadeh, Mohammad Reza Abai, Abbas Rahimi Foroushani. Detection and characterization of Enterobacteriaceae family members carried by commensal *Rattus norvegicus* from Tehran, Iran. *Archives of Microbiology*, 2021;203(4):۱۳۲۱-۱۳۳۴
51. Babak Pakbin, Afshin Akhondzadeh Basti, Ali Khanjari, **Leila Azimi**, Wolfram Manuel Brück & Abdollah Karimi. RAPD and ERIC-PCR coupled with HRM for species identification of non-dysenteriae *Shigella* species; as a potential alternative method. *BMC Research Notes*. 2021;14:345
52. Roxana Mansour Ghanaie, Abdollah Karimi, **Leila Azimi**, Seddon James, Mahshid Nasehi. Diagnosis of latent tuberculosis infection among pediatric household contacts of Iranian tuberculosis cases using tuberculin skin test, IFN-  $\gamma$  release assay and IFN-  $\gamma$ - induced protein-10. *Ghanaieet al. BMC Pediatrics* (2021) 21:76
53. Marhamati N, Shirvani F, **Azimi L**, Hashemieh M, Hosseini A, Asad Shahmirzadi S, Dodangeh F. Molecular detection of human parvovirus B19 in umbilical cord blood: Case study of Tehran, Iran. *Gene Reports*. 2021; 23, 101183
54. Shahnaz Armin, Fatemeh Fallah, Abdollah Karimi, Taher Azimi, Hossein Samadi Kafil, Shahram Shahraki Zahedani, Roxana Mansour Ghanaiee, **Leila Azimi**. Multicentre study of the main carbapenem resistance mechanisms in important members of the Enterobacteriaceae family in Iran. *New Microbe and New Infect* 2021;41:100860
55. Noushin Marhamati, Fariba Shirvani, **Leila Azimi**, Mozghan Hashemieh, Afsaneh Hosseini, Sedigheh Asad Shahmirzadi, Fatemeh Dodangeh. Molecular detection of human parvovirus B19 in umbilical cord blood: Case study of Tehran, Iran. *Gene Reports* 23 (2021) 101183

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57. Babak Pakbin, Afshin Akhondzadeh Basti, Ali Khanjari, **Leila Azimi**, Abdollah Karimi. Differentiation of stx1A gene for detection of *Escherichia coli* serotype O157:H7 and *Shigella dysenteriae* type 1 in food samples using high resolution melting curve analysis. Food Sci Nutr. 2020;8:3665–3672.
58. Fatemeh Fallah, Taher Azimi, **Leila Azimi**, Abdollah Karimi, Mohammad Rahbar, Mehdi Shirdoust, Iraj Sedighi, Ata Saadat Sadeghi, Shahnaz Armin. Evaluating the antimicrobial resistance and frequency of AmpC  $\beta$ -lactamases blaCMY-2 gene in Gram-negative bacteria isolates collected from selected hospitals of Iran: A multicenter retrospective study. Gene Reports, Volume 21, December 2020, 100868
59. Shahnaz Armin, Shahram Shahraki Zahedani, Mohammad Rahbar, **Leila Azimi**. Prevalence and Resistance Profiles of Vancomycin-resistant Enterococcal Isolates in Iran; An Eight-month Report from Nine Major Cities. Infectious Disorders - Drug Targets, 2020, 20, 1-6
60. Alireza Mirjavadi, Abdollah Karimi, **Leila Azimi**, Roxana Mansour Ghanaiee, Ahmad Reza, Shamshiri, Marjan Tariverdi. Livestock Brucellosis: Frequency of Mutations Causing Resistance to Fluoroquinolone, Streptomycin and Rifampin. Arch Pediatr Infect Dis. 2020 January; 8(1):e83557.
61. Roxana Mansour Ghanaie, **Leila Azimi**, Seyedeh Mahsan Hoseini-Alfatemi, Ahmad Moein Karimi, Goli Angoti, Iraj Sedighid, Reza Dalirani, Ahmad Shamsizadeh, Abdollah Karimi. Molecular characterization of mutations in *gyrA*, *parC*, *rpoB*, and *aadA1* genes of human Brucellosis. TOMOS 65 • TEYXOS 1, Ιανουάριος-Μάρτιος 2020;65:1:29-369

62. Taher Azimi, Mohammad Reza Pourmand, Fatemeh Fallah, Abdollah Karimi, Roxana Mansour-Ghanaie, Seyedeh Mahsan Hoseini-Alfatemi, Mehdi Shirdoust, **Leila Azimi**. Serosurvey and molecular detection of the main zoonotic parasites carried by commensal *Rattus norvegicus* population in Tehran, Iran. Azimi et al. Tropical Medicine and Health (2020) 48:60
63. Shahnaz Armina, Fatemeh Fallaha, Abdollah Karimia, Mehdi Shirdousta, Taher Azimib, Iraj Sedighid, Shahram Shahraki Zahedanie, Sedigheh Rafiei Tabatabaiea, Sayyed Alireza Fahimzada, Nushin Marhamatif, **Leila Azimi**. Frequency of extended-spectrum beta-lactamase genes and antibiotic resistance patterns of Gram-negative bacteria in Iran: A multicenter study. Gene Reports 21 (2020) 100783
64. **Azimi L**, Tahbaz SV, Alaghehbandan R, Alinejad F, Lari AR. Synergistic effect of tazobactam on amikacin MIC in *Acinetobacter baumannii* isolated from burn patients in Tehran, Iran. Curr Pharm Biotechnol. 2020 Feb 20. doi: 10.2174/1389201021666200220121122.
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66. Ardehali SH, Azimi T, Fallah F, Aghamohammadi N, Alimehr S, Karimi AM, **Azimi L**. Molecular detection of ALS1, ALS3, HWP1 and SAP4 genes in *Candida* Genus isolated from hospitalized patients in Intensive Care Unit, Tehran, Iran. Cell Mol Biol (Noisy-le-grand). 2019 Apr 30;65(4):15-22.
67. **Leila Azimi**, Roxana Mansour Ghanaiee, Mehdi Shirdust, Ahmad Moein Karimi, Shahnaz Armi, Sedigheh Rafiei Tabatabaei, Farideh Shiva, Fatemeh Fallah, Mohammad Rezaei, Sayyed Alireza, Fahimzad, Ghamartaj Khanbabaie , Mohammad

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  71. **Azimi L**, Lari AR. Colistin-resistant *Pseudomonas aeruginosa* clinical strains with defective biofilm formation. GMS Hyg Infect Control. 2019 Oct 10;14:Doc12.
  72. Bagher Haghighi M, Dara N, Mansour Ghanaie R; **Azimi L**; Hosseiniordid 2; Saleheh Tajalliorcid A; Hajipourordid M; Sayyari A; Imanzadeh F; Khatami K; Rohani P; Olang B. Evaluation of Clarithromycin and Metronidazole Resistance of *Helicobacter Pylori* Infection in Symptomatic Iranian Children. International Journal of Pediatrics. 2019;7(2):۸۹۲۵-۸۹۳۳
  73. **Leila Azimi**, Sahel Valadan Tahbaz, Fateme Fallah, Jamileh Nowroozi, Shahnaz Armin. Molecular Characterization of Exotoxin Genes in *Staphylococcus aureus* Recovered From Hospitalized Patients. J Med Bacteriol. Vol. 8, No. 5, 6 (2019): pp.21-29
  74. Valadan Tahbaz S, **Azimi L**, Nowroozi J, Armin SH, Fallah F. Multilocus sequence typing and antibiotic resistant patterns of the meticillin-resistant *Staphylococcus*

aureus isolates from different clinical specimens. *Reviews in Medical Microbiology*. 2019;30(2):۷۷-۸۲

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76. Armin S, Zahedani SS, Rahbar M, **Azimi L**. Prevalence and resistance profiles of vancomycin-resistant enterococcal isolates in Iran; an eight-month report from nine major cities. *Infect Disord Drug Targets*. 2019 Nov 11.
77. Valadan Tahbaz S, **Azimi L**, Asadian M, Lari AR. Evaluation of synergistic effect of tazobactam with meropenem and ciprofloxacin against multi-drug resistant *Acinetobacter baumannii* isolated from burn patients in Tehran. *GMS Hyg Infect Control*. 2019 Aug 2;14:Doc08.
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  116. Cloning, expression and purification of recombinant 31kDa cell surface protein of *Brucella melitensis* 16M. Liela Azimi, Nima khoramabadi, Ashraf Mohabati Mobarez, Haniyeh Aghabab, Amir Bakhtiari, Esmaeil Asli, Abdolaziz Rastegar Lari. *Journal of Pure and Applied Microbiology*. Vol.5(2). 2011
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## **PUBLISHED ABSTRACTS**

1. **Leila Azimi.** Oral presentation. **Evaluation of different methods to determine biofilm formation in *Pseudomonas aeruginosa*. 8<sup>th</sup> congress and exhibition on antibiotic and antibiotic resistance (webinar). 8th world congress and exhibition on Antibiotics and Antibiotic Resistance . Held on March, 08, 2021. UK.**
2. **Leila Azimi.** Oral presentation. . **The rapid test method to detect SARS-CoV-2 by extraction elimination in PCR assay. 13th Euro-Global Conference on Infectious Diseases. 13th Euro-Global Conference on Infectious Diseases. Held on October, 11, 2021. UK.**
3. **Leila Azimi.** Oral presentation. The latest methods of corona virus identification. Series webinar on pediatric COVID-19 in PIRC.2021
4. **Leila Azimi,** Poster presentation. Taher Azimi, Fatemeh, Fallah. Molecular detection of trichomonas vaginalis and Toxoplasma gondii in Rattus Norvegicus from Tehran province, Iran. 4<sup>th</sup> international congress on biomedicine. Held on November 9<sup>th</sup>- 16<sup>th</sup>, 2020. Iran.
5. **Leila Azimi.** Attendance certificate. **National congress on Corona virus. Hold on September 29, 2020. Azad University, Sari branch.** (Has cultural privileges)
6. **Leila Azimi,** Shahnaz Armin, Fatemeh Fallah, Mehdi Shirdoust, Abdollah KARimi, Saeid Maham. Poster presentation. Molecular detection antibiotic resistance in multidrug Acinetobacter baumannii isolated from west province of Iran. 4th World Congress and Exhibition on Antibiotics and Antibiotic Resistance (Antibiotics 2018) on June 14-15, 2018 at Barcelona, Spain.

7. **Leila Azimi**, Shahnaz Armin, Fatemeh Fallah, Abdollah Karimi, Saeed Maham, Kiarash Ghazvini, Sepide Hasanzadeh. Poster presentation. OXA-48 PRODUCING KLEBSIELLA PNEUMONIAE ISOLATED FROM CLINICAL SAMPLES IN IRAN. **4th International Conference on Prevention & Infection Control (ICPIC 2017)** taking place in Geneva, Switzerland, 20 to 23 June 2017
8. **Leila Azimi**, Abdolaziz Rastegar Lari, Asghari B., Mina bustanshenas, F. Alinejad. Poster presentation. Comparison between phenotypic and genotypic method for detection of KPC- producer *Pseudomonas aeruginosa*. **14<sup>th</sup> international conference on Pseudomonas, to be held in Lausanne, Switzerland**, from 7 to 11 September 2013.
9. **Leila Azimi**, Narmela Rabirad, Abdolaziz Rastegar Lari, Babak Asghari, Ali Shojaie, Masoud Mohammadpoor, Razagh Bayat. Poster presentation. Antimicrobial Susceptibility Patterns of the Gram-negative Bacteria Isolated from Septicemia in Children's Medical Center, Tehran, Iran. **13<sup>th</sup> International Symposium on Dendritic Cells**. Tours, France, 14 to 18 September.
10. **Leila Azimi**, Abdolaziz Rastegar Lari, Malihe Talebi, Mohammad-Reza Pourshafie, Parviz Owlia. Poster presentation. First report of KPC-producer *Acinetobacter baumannii* from Iran: phenotypic and genotypic methods. **III International Conference on Antimicrobial Research**, Madrid (Spain), 1-3 October 2014
11. Abdolaziz Rastegar Lari, **Leila Azimi**, Masoud Mohammadpoor. Poster presentation. *Klebsiella pneumoniae* Carbapenemase Bacterial Organisms in the Infants in Burn Unit. **ESPID. Congress**, 201, Greece.

12. Sheida Asadpoor, Hajar Mohammadi Barzeghili, Marjan Vahdani, **Leila Azimi**, Abdolaziz Rastegar Lari. Poster presentation. Detection of Extended spectrum beta lactamase producing *Acinetobacter baumannii* strains isolated from burned patients. 2011, 1<sup>th</sup> Iranian congress of Medical Bacteriology, Tabriz, Iran
13. **Liela Azimi**, Nima khoramabadi, Ashraf Mohabati Mobarez, Esmaeil Asli, Naser harzandi, Abdolaziz Rastegar Lari. Poster presentation. Survey of protection of Recombinant Cell Surface Protein 31kDa from *Brucella melitensis* in BALB/c mice. 2011, 5<sup>th</sup> Iranian congress of Medical Microbiology, Shiraz, Iran.

## PROJECTS

1. Design and synthesized nanostructures based on modified mesoporous silica nanoparticles and evaluated their bacterial effects on Gram-positive and Gram-negative bacteria. Iran National Science Foundation. Grant No. 4041832
2. Survey of rapid detection COVID-19 test in nasopharynx swab. Shahid Behehsti University of Medical Sciences, Tehran, Iran. Grant No: 27650
3. Evaluation of IgG antibodies related to spike protein after at least 5 months after injection of the second dose of vaccine in the staff of Mofid Children's Hospital. Shahid Behehsti University of Medical Sciences, Tehran, Iran. Grant No: 30846
4. Examining the frequency of the most common bacteria causing exudative diarrhea in samples of children under 5 years old in different cities of Iran by PCR. Pediatric Infectious Research Center, Shahid Behehsti University of Medical Sciences, Tehran, Iran. 2020-2021. Grant No. 43006043
5. Identification of the most common Gram-positive & Gram-negative bacteria causing bacteremia In children admitted to the hematology , transplant , PICU ,NICU wards of Mofid Children Hospital during tow-month. Pediatric Infectious Research Center, Shahid Behehsti University of Medical Sciences, Tehran, Iran. 2020-2021. Grant No. 43006041

6. The use of multiplex PCR method in the diagnosis of acute childhood viral diarrhea in children admitted to Mufid Children's Hospital in 1402. Pediatric Infectious Research Center, Shahid Behehsti University of Medical Sciences, Tehran, Iran. 2020-2021. Grant No. 43003087
7. Evaluation of carbapenem inactivation method test sensitivity in comparison with PCR for detection of Carbapenem producing gram-bacteria. Pediatric Infectious Research Center, Shahid Behehsti University of Medical Sciences, Tehran, Iran. No. 2020-2021. 20292
8. Design of Molecular Diagnostic Panel of *Streptococcus pneumoniae*, *Haemophilus* and *Meningococcus*, isolated from clinical specimen (blood and / or CSF) and pure bacterial culture. Pediatric Infectious Research Center, Shahid Behehsti University of Medical Sciences, Tehran, Iran. 2020-2021. No. 20326
9. Molecular epidemiology of MRSA strains obtained from Imam Reza hospital, Tabriz, Iran by using MLST. Shahid Behehsti University of Medical Sciences, Tehran, Iran. No. 17739
10. Rodent borne emerging and re-emerging zoonotic disease in Tehran, Iran, 1396. National Institute for Medical Research Development (NIMAD). Grant number: 962763. 2017 up 2019 **(national project) (principle investigator)**
11. DETERMINING CAUSATIVE AGENTS OF ACUTE PAEDIATRIC BACTERIAL MENINGITIS AND DISTRIBUTION OF DIFFERENT SEROGROUPS OF NEISSERIA MENINGITIDIS CAUSING MENINGOCOCCAL MENINGITIS IN IRAN: A PROSPECTIVE, MULTI CENTER, FACILITY-BASED SURVEILLANCE OF INVASIVE MENINGOCOCCAL DISEASE. Sanofi Pasture France.2017- 2018 **(international project) (main co- worker)**
12. Survey of antibiotic resistance pattern in ten threatening bacteria in IRAN: by phenotyping and genotyping methods. National Institute for Medical Research Development (NIMAD). Grant number: 940290. 2015 - 2018. **(national project)** (Main co- worker)
13. A cohort study tracing latent and active infection with *Mycobacterium tuberculosis* in Iranian exposed people predicting by Quantiferon, PPD and



Interferon Gamma Inducible Protein 10 ( in all household exposed ). National Institute for Medical Research Development (NIMAD). (**national project**) Grant number: 942732. 2016 up to 2018. (main co- worker)

14. Identification of *Streptococcus pneumoniae* and *Haemophilus influenzae* in pediatric bacterial meningitis o by specific Real- Time PCR; a multicenter study. National Institute for Medical Research Development (NIMAD). (**national project**) Grant number: 982935. 2019. (main co- worker)
15. Investigation of the Collateral Sensitivity and 12S mutation by ARMS-PCR in gentamicin resistant *Pseudomonas aeruginosa*. National Institute for Medical Research Development (NIMAD). (**national project**) Grant number: 943634. 2015-2016. (main co- worker)
16. Colistin-resistant *Pseudomonas aeruginosa* deficient in biofilm formation. National Institute for Medical Research Development (NIMAD). (**national project**) Grant number: 958699. 2017. (main co- worker)
17. Detection of antibiotic resistance genes of *Brucella* spp. in human samples, in Iran. National Institute for Medical Research Development (NIMAD). Grant number: 943753. 2016 up to 2017. (**national project**) (main co- worker)
18. Multi-Locus Variabel\_tandem Repeat analysis of molecular typing of carbapenemase producer *A. abumannii*. 93-01-30-24458, Iran University of Medical Sciences. (main co- worker)
19. Investigation of genetic diversity and expression profile of antibiotic resistance efflux pumps of clinical multi-drug resistant *Pseudomonas aeruginosa*. 92-01-134-21562. Iran University of Medical Sciences. (main co- worker)
20. The evaluation of broad spectrum antibiotic resistance genes expression and determination of clonal groups in gram negative bacteria isolated from burned patients and environmental setting of hospital. 91-04-134-20187. Iran University of Medical Sciences. (main co- worker)
21. Prevalence of nosocomial infections caused *Entrobacter cloacae* and determines 10. Antibiotic resistance patterns in samples isolated from patients referring to Tehrans

Milad Hospital. M/T 90-01-13-13407. Tehran university of Medical Sciences. (main co- worker)

22. Survey of KPC-producing *Klebsilla* spp. isolated from patients in Milad and Shahid Motahari hospital, Tehran, Iran. 90-03-13-15213. . Tehran university of Medical Sciences. (main co- worker) 12. Molecular detection of *bla<sub>IMP-1</sub>* , *bla<sub>VIM-1</sub>* and *bla<sub>VIM-</sub>* genes Among isolated *Pseudomonas aeruginosa* strains in burn patients of motahari hospital, Tehran, Iran. Ilam university of Medical Sciences. (main co- worker)
23. Genetic survilance of crbapenemse enzyme in isolated Klebsielle pneumoniae from hospitalized patients in Motahari hospital. Credit Number: M/T 91-01-134-17069. Tehran university of Medical Sciences. (main co- worker)
24. Detection of *bla<sub>IMP</sub>* , *bla<sub>VIM-1</sub>* and *bla<sub>VIM-2</sub>* metallo beta-lactamases gene by PCR. Among isolated *Acenitobacter baumannii* strains in burn patients of motahari hospital, Tehran, Iran. 91-01-13-16573. Tehran university of Medical Sciences. (main co- worker)
25. Molecular and phonotypical surveillance of *Klebsiella pneumoniae* carbapenemase in carbapenem resistant *Pseudomonas*. 91-01-134-17129. Tehran university of Medical Sciences. (main co- worker)
26. Detection of antibiotic resistance Pattern *E. coli* and *klebsiella* and identify phenotypic lactamase enzymes (ESBL) in samples isolated from urinary tract infections. 90-01-134-13426. Tehran university of Medical Sciences. (main co- worker)
27. Investigation of extended-spectrum beta-lactamases and metalo beta-lactamases in *A. baumannii* isolated from wounds of burned patients that were hospitalized in Motahari hospital. 90-03-13-14736. Tehran university of Medical Sciences. (main co- worker)

### Gene record in NCBI data base

<https://www.ncbi.nlm.nih.gov/nuccore/?term=Azimi+L>

1. *Pseudomonas aeruginosa* strain PIRC-NDM-5 NDM family beta-lactamase (*bla*NDM) gene, partial cds. GenBank: PQ155078.1

2. UNVERIFIED\_ORG: *Acinetobacter baumannii* strain MFD1 OXA family beta-lactamase (blaOXA) gene, partial cds. GenBank: OM365997.1
3. *Candida albicans* adhesion factor (Als3) gene, partial cds. GenBank: OP651026.1
4. *Staphylococcus aureus* MecA (mecA) gene, partial cds. GenBank: OP651027.1
5. UNVERIFIED\_ORG: *Leptospira interrogans* strain mfd preprotein translocase subunit SecY (secY) gene, partial cds. GenBank: OM365999.1
6. UNVERIFIED\_ORG: Uncultured *Bartonella* sp. citrate synthase GltA (gltA) gene, partial cds. GenBank: OM365998.1
7. *Acinetobacter baumannii* strain MFD6 aminoglycoside (3') phosphotransferase APH(3')-VIe (aph(3')-VIe) gene, partial cds 1111 bp linear DNA, Accession : MZ345711.1.GI: 2060806359
8. *Escherichia coli* strain MFD5 ANT(3'')-Ia family aminoglycoside nucleotidyltransferase AadA15 (aadA15) gene, partial cds 593 bp linear DNA Accession: MZ345710.1. GI: 2060806357.
9. *Escherichia coli* strain MFD4 APH(3')-II family aminoglycoside Ophosphotransferase (aph(3')-II) gene, partial cds. 198bp linear DNA. Accession: MZ345709.1.GI: 2060806355
10. *Escherichia coli* strain MFD3 APH(6) family putative aminoglycoside O-phosphotransferase (aph(6)) gene, partial cds. 1111bp linear DNA. Accession: MZ345708.1.GI: 2060806353
11. *Escherichia coli* strain MFD2 aminoglycoside O-phosphotransferase APH(3')-Ia (aph(3')-Ia) gene, partial cds. 1111bp linear DNA. Accession: MZ345707.1. GI: 2060806351
12. *Escherichia coli* strain MFD1 AAC(6')-Ib family aminoglycoside 6'-N-acetyltransferas (aac(6')-Ib) gene, partial cds. 450bp linear DNA. Accession: MZ345706.1. GI: 2060806349
13. *Enterococcus faecalis* strain 21 efflux pump (efra) gene, partial cds. 486 bp linear DNA. Accession: KY244018.1. GI: 1268246197

14. Enterococcus faecalis strain 22 efflux pump (efra) gene, partial cds. 486 bp linear DNA. Accession KY244017.1. GI: 1268246195
15. Enterococcus faecalis strain ab22 ABC transporter (efrB) gene, partial cds. 357 bp linear DNA. Accession: KY131192.1. GI: 1242731630

### **Prize and grant**

1000 CFU grant from **14<sup>th</sup> international conference on Pseudomonas, to be held in**

**Lausanne, Switzerland**, from 7 to 11 September 2013.

### **BOOK**

Pathogenic Bacteria in Iran. Vol.1. Iranian Society for medical bacteriology, Iran. Writing book

knowledge of microbiology laboratory. Print: Dana. Publications: Poyan. Sabzevar

University of Medical Sciences, Sabzevar, Iran. Book translation

Guide to diagnosis and treatment of covid-19 in children and infants. Shahid Beheshti university of medical Sciences, Tehran, Iran. Writing book

### **Skills**

- ❖ Conventional PCR
- ❖ Real-Time PCR
- ❖ PFGE
- ❖ RAPD-PCR
- ❖ RFLP-PCR
- ❖ MLVA
- ❖ Primer Designing
- ❖ DNA Electrophoresis
- ❖ Plasmid Extraction
- ❖ DNA Extraction
- ❖ RNA Extraction
- ❖ Gel Purification
- ❖ MIC
- ❖ MBC
- ❖ Carba-NP Test

### **Computer Software**

- ❖ GENERUNR
- ❖ Primer3
- ❖ Primer Blast
- ❖ SPSS
- ❖ Endnote
- ❖ Word
- ❖ PowerPoint

❖ Excel