



## Curriculum Vitae

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### Personal Information

- **Name:** Behrooz Sadeghi-Kalani
- **Date of Birth:** 5 July 1986
- **Email:** sadeghi-b@medilam.ac.ir; Behroz.sadeghi@gmail.com
- **Contact Number:** +989184656065

### Education

- **PhD in Medical Bacteriology**, Iran University of Medical Sciences (IUMS), Tehran, Iran (December 1, 2020) (Total GPA: 17.83)
  - **Thesis:** Evaluating the effect of the peptide-antisense conjugate on the inhibition of virulence factor expression in *Listeria monocytogenes*
- **M.Sc in Microbiology**, Tehran University of Medical Sciences (TUMS), Tehran, Iran (2014)
  - **Thesis:** Typing of *Listeria monocytogenes* based on multiple-locus variable number tandem repeat analysis
- **B.Sc in Laboratory Science**, Shiraz University, Shiraz, Iran (2006)

### Current Position and Previous Positions

- **Current Position:** Assistant Professor of Medical Bacteriology, Department of Microbiology, School of Medicine, Ilam University of Medical Sciences, Ilam, Iran

### Teaching Activities

- **Iran University of Medical Sciences (2014-2019):**
  - Taught practical and theoretical courses in bacteriology and molecular techniques to undergraduate and graduate students
  - Conducted workshops on molecular techniques and bioinformatics
- **Ilam University of Medical Sciences (2020-Present):**
  - Teaching medical bacteriology, bioinformatics, and genetics
- **Institutional Responsibilities**
  - Head of Internationalization Working Group, Ilam University of Medical Sciences (2022-Present)

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### Language Proficiency

- Persian: Native
- Kurdish: Native
- English: Advanced
- Arabic: Basic

### Programming Skills

- Currently learning Python to enhance data analysis and bioinformatics applications.

## Research Interests

- Bioinformatics
  - Bacterial Dormancy (Persister Cells and Viable But Non-Culturable (VBNC) States)
  - Drug Discovery
  - Antimicrobial Peptide Design
  - Vaccine Development
  - Bacterial Genetics
  - Toxin-Antitoxin Systems
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## • Skills

1. **Molecular Biology Techniques:**
    - DNA Extraction, RNA Extraction, Protein Extraction, cDNA Synthesis
    - PCR Techniques: PCR, RAPD-PCR, RFLP-PCR, MLVA, MLST, HRM, RT-PCR, Q-RT-PCR, ARMS-PCR, PFGE, Gene Cloning
  2. **Analytical Techniques:**
    - Electrophoresis, SDS-PAGE, Western Blot, Cell Culture, ELISA, Flow Cytometry, Chromatography
  3. **Bioinformatics:**
    - Genomics and Proteomics: BLAST, Primer Design, Probe Design, PNA, Antimicrobial Peptides, siRNA, CRISPR-Cas9 Design, Phylogenetic Trees, VNTR, Polymorphism, Protein Modeling, Virtual Screening and Molecular Docking, Protein Interaction, Drug Design, Molecular Dynamics,
  4. **Software Proficiencies:**
    - Bioinformatics Tools: AutoDock Vina, Molegro Virtual Docker, Discovery Studio, Bionumerics, MEGA X, Jalview, BioEdit, GeneRunner, GeneTools, LigPlot+, PyMOL, CLC Sequence Viewer, Oligo.v7
    - Others: EndNote X8,
  5. **Office Software:**
    - Microsoft Word, PowerPoint, Excel, SPSS, GraphPad Prism
  6. **Experience with Laboratory Animals:**
    - Mouse, Rat, Rabbit
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### Language proficiency:

- Persian: Native
  - Kurdish: Native
  - English: Upper-intermediate, B2
  - Arabic: Basic
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## Teaching Assistant:

1. Teaching Practical Bacteriology for medical students at Iran University of Medical Sciences. (2014-2019)
2. Teaching Practical molecular techniques for M.Sc students at Iran University of Medical Sciences. (2014-2019)

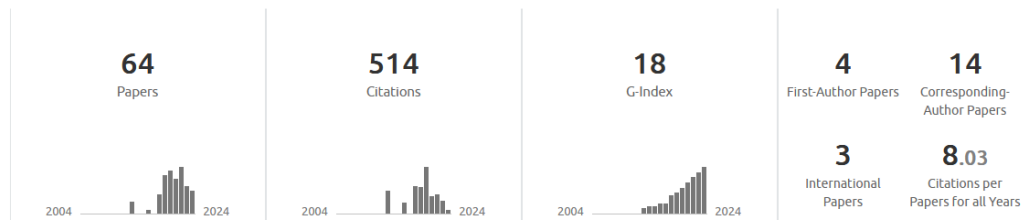
3. Teaching Theoretical molecular techniques for M.Sc students at Iran University of Medical Sciences. (2014-2019)
  4. Teaching Theoretical molecular techniques for PhD students at Iran University of Medical Sciences. (2015-2019)
  5. Teaching Practical molecular techniques for PhD students at Iran University of Medical Sciences. (2015-2019)
  6. Teaching Bioinformatics for M.Sc students at Iran University of Medical Sciences. (2015-2019)
  7. Teaching bacteria systematics for M.Sc students at Iran University of Medical Sciences. (2015-2019)
  8. Teaching Theoretical bacteria to nursing students at Iran University of Medical Sciences. (2014-2019)
  9. Teaching Theoretical bacteria for Midwifery students at Iran University of Medical Sciences. (2014-2019)
  10. Teaching Theoretical bacteria for Optometry students at Iran University of Medical Sciences. (2014-2019)
  11. Teaching 10 courses of molecular workshops during the years 2015 to 2019
  - 12. Teaching at Ilam University of Medical Sciences. (2020-until now)**
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#### **Attended Congress and Schools**

1. 5th International Congress of Laboratory & Clinic; 15-18 January 2013, Tehran-Iran, presented the article entitled: Evaluation of antibacterial activity alcoholic extract of *crataeguspentagyana* on *pseudomonas aeruginosa* and *staphylococcus aureus* growth inhibition in vitro
  2. 5th International Congress of Laboratory & Clinic; 15-18 January 2013, Tehran-Iran, presented the article entitled: *listeria monocytogenes* as a Vector for cancer immunotherapy
  3. 6th International Congress of Laboratory & Clinic; 12-14 February 2014, Tehran-Iran (Participated in the Workshop PCR and primer design)
  4. 6th International Congress of Laboratory & Clinic; 12-14 February 2014, Tehran-Iran (Participated in the Workshop Principles of Bioinformatics)
  5. 18th International and Iranian Congress of Microbiology; 29-31 August 2017, Tehran, Iran (Precipitated and presented oral entitling: a study of putative type II Toxin-antitoxin system in *S.epidemidis* isolates)
  6. 19th International and Iranian Congress of Microbiology; 4-6 September 2018, Tehran, Iran (Best Oral Presentation entitled: TRs analysis revealed *Staphylococcus epidermidis* transmission among patients and hospital)
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#### **Publications and Citations**

- Google Scholar Citations: 776 | h-index: 18
- Scopus Citations: 514 | h-index: 13
- Number of Publications: 63 (Scopus), 72 (Google Scholar)



[https://isid.research.ac.ir/Behrooz\\_Sadeghikalani](https://isid.research.ac.ir/Behrooz_Sadeghikalani)

1. Cheraghi N, Khoshnood S, Sadeghifard N, Khodaei N, Asadollahi P, Bastaminejad S, Kouhsari E, Omid N, **Kalani BS\***. Unveiling the impact of antibiotic stress on biofilm formation and expression of toxin-antitoxin system genes in *Clostridium difficile* clinical isolates (2024). *Molecular Biology Reports*. 51(1):1-0. **IF: 2.6**
2. Asadinezhad, M., Pakzad, I., Asadollahi, P., Ghafourian, S., & **Kalani, B. S\***. Proteomics Exploration of *Brucella melitensis* to Design an Innovative Multi-Epitope mRNA Vaccine (2024). *Bioinformatics and Biology Insights*, 18, 11779322241272404. **IF: 2.3**
3. Asadollahi, P. and **B.S. Kalani\***, Novel toxin-based mRNA vaccine against *Clostridium perfringens* using in silico approaches (2024). *Toxicon*: p. 107584. **IF: 2.8**
4. Asadinezhad, M., S. Khoshnood, P. Asadollahi, S. Ghafourian, N. Sadeghifard, I. Pakzad, Y. Zeinivand, N. Omid, A. Hematian, and **B.S. Kalani\***, Development of innovative multi-epitope mRNA vaccine against *Pseudomonas aeruginosa* using in silico approaches (2024). *Briefings in Bioinformatics* 25(1): p. bbad502. **IF: 9.5**
5. Shivaee, A., S. Bahonar, M. Goudarzi, A. Hematian, B. Hajikhani, and **B. Sadeghi Kalani\***, Investigating the effect of the inhibitory peptide on *L. monocytogenes* cell invasion: an in silico and in vitro study (2023). *Gut Pathogens* 15(1): p. 1-7. **IF: 4.2**
6. Pakzad, I., F. Yarkarami, **B.S. Kalani**, M. Shafieian, and A. Hematian, Inhibitory Effects of Carvacrol on Biofilm Formation in Colistin Heteroresistant *Acinetobacter baumannii* Clinical Isolates (2023). *Current Drug Discovery Technologies*. **IF:-**
7. Ohadi, E., A. Azarnezhad, L. Lotfollahi, P. Asadollahi, V.H. Kaviar, S. Razavi, and **B. Sadeghi Kalani\***, Evaluation of Genetic Content of the CRISPR Locus in *Listeria*

- monocytogenes Isolated From Clinical, Food, Seafood and Animal Samples in Iran (2023). *Current Microbiology* 80(12): p. 388. **IF: 2.6**
8. Mahdieh, M.S., J. Maryam, B. Bitra, F. Neda, M. Motahare, B. Mahboobeh, Q. LeBris S, and **S. Kalani Behrooz**, A pilot study on the relationship between Lactobacillus, Bifidobacterium counts and inflammatory factors following exercise training (2023). *Archives of physiology and biochemistry* 129(3): p. 778-787. **IF: 3**
  9. Latifi, F., A. Hashemi, **B.S. Kalani**, I. Pakzad, and A. Hematian, abkBA toxin–antitoxin system may act as antipersisters modules in *Acinetobacter baumannii* clinical isolates (2023). *Future Microbiology* 18(11): p. 707-714. **IF: 3.1**
  10. Haghbin, M., R.E. Malekshah, M. Sobhani, Z. Izadi, B. Haghshenas, M. Ghasemi, **B.S. Kalani**, and H. Samadian, Fabrication and characterization of Persian gum-based hydrogel loaded with gentamicin-loaded natural zeolite: An in vitro and silico study (2023)—*international journal of biological macromolecules* 235: p. 123766. **IF: 8.2**
  11. Asadollahi, P., N. Sadeghifard, H. Kazemian, I. Pakzad, and **B.S. Kalani\***, In silico Study of the Proteins Involved in the Persistence of *Brucella* spp (2023). *Current drug discovery technologies* 20(1): p. 1-13.
  12. Zadeh, R.G., M. Koupaei, **B.S. Kalani**, J. Pourghader, A. Darbandi, V.P. Mahabadi, and F.M. Jazi, Antibacterial activity of medicinal plants and propolis extracts as well as their synergistic effect with antibiotics on pathogenic bacteria (2022). *The Egyptian Journal of Experimental Biology (Botany)* 18(1): p. 51-51. **IF:-**
  13. Zadeh, R.G., **B.S. Kalani**, M.M. Ari, M. Talebi, S. Razavi, and F.M. Jazi, Isolation of persister cells within the biofilm and relative gene expression analysis of type II toxin/antitoxin system in *Pseudomonas aeruginosa* isolates in exponential and stationary phases (2022). *Journal of global antimicrobial resistance* 28: p. 30-37. **IF: 4.6**
  14. Tahmasebi, Z., P. Asadollahi, N. Sadeghifard, S. Ghafourian, **B.S. Kalani**, E.G.P. Kalaei, and I. Pakzad, Microbiological and drug resistance patterns of bronchoalveolar lavage samples taken from hospitalized patients in Iran (2022). *Germs* 12(3). **IF: 2**
  15. Ohadi, E., B. Bakhshi, **B.S. Kalani**, M. Talebi, and G. Irajian, Transcriptome analysis of biofilm formation under aerobic and microaerobic conditions in clinical isolates of *Campylobacter* spp (2022). *Research in veterinary science* 142: p. 24-30.

16. Narimisa, N., F. Amraei, M. Sholeh, S. Mirkalantari, S. Razavi, **B.S. Kalani\***, L. Lotfollahi, and F.M. Jazi, Genotyping of *Listeria monocytogenes* isolates by high-resolution melting curve (HRM) analysis of tandem repeat locus (2022)—Brazilian Journal of Infectious Diseases 26. **IF:3.4**
17. Maleki, A., V.H. Kaviar, M. Koupaei, M.H. Haddadi, **B.S. Kalani**, H. Valadbeigi, S. Karamollahi, N. Oidi, M. Hashemian, and N. Sadeghifard, Molecular typing and antibiotic resistance patterns among clinical isolates of *Acinetobacter baumannii* recovered from burn patients in Tehran, Iran (2022)—frontiers in Microbiology 13: p. 994303. **IF:5.2**
18. Kaviar, V.H., S. Khoshnood, P. Asadollahi, **B.S. Kalani**, A. Maleki, S. Yarahmadi, and I. Pakzad, Survey on phenotypic resistance in *Enterococcus faecalis*: comparison between the expression of biofilm-associated genes in *Enterococcus faecalis* persister and non-persister cells (2022). Molecular biology reports: p. 1-9. **IF:2.8**
19. Hoseini, S., **B.S. Kalani**, S. Ghafourian, A. Maleki, P. Asadollahi, B. Badakhsh, and I. Pakzad, In Vitro and In Silico Investigation of some Type II TA Genes in *H. Pylori* (2022). Clinical Laboratory 68(8). **IF:0.7**
20. Golmoradi Zadeh, R., M. Mirshekar, **B. Sadeghi Kalani**, J. Pourghader, M. Barati, and F. Masjedian Jazi, The expression of type II TA system genes following persister cell formation in *Pseudomonas aeruginosa* isolates in the exponential and stationary phases (2022). Archives of Microbiology 204(8): p. 451.
21. Bayatipour, Z., N. Sadeghifard, S. Ghafourian, **B.S. Kalani**, P. Asadollahi, F. Azizi-Jalilian, and I. Pakzad, Effect of Chlorhexidine (CHX) and Hydrogen Peroxide ( $H_2O_2$ ) on the Biofilm Formation of *Enterococcus faecalis* (2022). Clinical Laboratory 68(4). **IF:0.7**
22. Asgharzadeh, S., R. Golmoradi Zadeh, M. Taati Moghadam, H. Farahani Eraghiye, **B. Sadeghi Kalani**, F. Masjedian Jazi, and S. Mirkalantari, Distribution and expression of virulence genes (*hlyA*, *sat*) and genotyping of *Escherichia coli* O25b/ST131 by multi-locus variable number tandem repeat analysis in Tehran, Iran (2022). Acta microbiologica et immunologica Hungarica 69(4): p. 314-322. **IF:1.5**
23. Asadollahi, P., I. Pakzad, N. Sadeghifard, S. Ghafourian, H. Kazemian, V.H. Kaviar, R. Fattahi, and **B.S. Kalani\***, Immunoinformatics Insights into the Internalin A and B Proteins to Design a Multi-Epitope Subunit Vaccine for *L. monocytogenes* (2022). International Journal of Peptide Research and Therapeutics 28(1): p. 47. **IF:2.5**

24. Asadollahi, P., I. Pakzad, S. Ghafourian, H. Kazemian, R. Fatahi, N. Sadeghifard, and **B.S. Kalani\***, In silico Investigation of Lon Protease as a Promising Therapeutic Target (2022). *Drug Research* 72(04): p. 180-188. **IF:2.2**
25. Shivaee, A., M. Meskini, R.R.N. Roodaki, **B.S. Kalani**, M. Mirshekar, and S. Razavi, Evaluation of the effects of nano-curcumin on the expression of genes involved in biofilm formation in *Staphylococcus epidermidis* (2021). *Gene Reports* 23: p. 101026. **IF:1.3**
26. Sara Zamani, N.N., **Behrooz S. Kalani**, Mehdi Moghadampour, Somaye K. Jamkarani, Gholamreza Irajian, Inhibitory Effects of *Lactococcus lactis* and its Supernatant on *Listeria monocytogenes* (2021). *Clinical laboratory* 67(10). **IF:0.7**
27. Narimisa, N., **B. Sadeghi Kalani**, R. Mohammadzadeh, and F. Masjedian Jazi, Combination of antibiotics—Nisin reduces the formation of Persister Cell in *Listeria monocytogenes* (2021). *Microbial Drug Resistance* 27(2): p. 137-144. **IF:2.6**
28. Narimisa, N., F. Amraei, **B.S. Kalani**, and F.M. Jazi, Evaluation of gene expression and protein structural modelling involved in persister cell formation in *Salmonella Typhimurium* (2021). *Brazilian Journal of Microbiology* 52: p. 207-217. **IF:2.2**
29. Mozafari, H., S. Mirkalantari, **B. Sadeghi Kalani**, and N. Amirmozafari, Prevalence Determination of Virulence Related and Biofilm Formation Genes in *Acinetobacter baumannii* Isolates from Clinical Respiratory Samples in Imam Khomeini Hospital, Tehran, Iran in 2018 (2021). *Iranian Journal of Medical Microbiology* 15(3): p. 266-280. **IF:-**
30. Moradkasani, S., E. Kouhsari, F.M. Jazi, **B.S. Kalani**, and I. Pakzad, Evaluation of putative toxin-antitoxins systems in clinical *Brucella melitensis* in Iran (2021). *Infectious Disorders-Drug Targets (Formerly Current Drug Targets-Infectious Disorders)* 21(1): p. 38-42. . **IF:-**
31. Karimaei, S., **B.S. Kalani**, N. Shahrokhi, R. Mashhadi, and M.R. Pourmand, Expression of type II toxin-antitoxin systems and ClpP protease of methicillin-resistant *Staphylococcus aureus* under thermal and oxidative stress conditions (2021). *Iranian Journal of Microbiology* 13(2): p. 204. **IF:1.4**
32. Farahani, N.N., **B.S. Kalani**, S.H. Monavari, S. Mirkalantari, F. Montazer, M. Sholeh, Z. Javanmard, and G. Irajian, Therapeutic effects, immunogenicity and cytotoxicity of a cell-penetrating peptide-peptide nucleic acid conjugate against *cagA* of *Helicobacter pylori* in cell culture and animal model (2021). *Iranian Journal of Microbiology* 13(3): p. 360. **IF:1.4**

33. Darbandi, A., R. Ghanavati, A. Asadi, S. Mirklantari, M. Hasannejad-Bibalan, V. Lohrasbi, **B.S. Kalani**, M. Rohani, M. Talebi, and M.R. Pourshafie, Prevalence of bacteriocin genes in *Lactobacillus* strains isolated from fecal samples of healthy individuals and their inhibitory effect against foodborne pathogens (2021). *Iranian Journal of Basic Medical Sciences* 24(8): p. 1117. **IF:2.2**
34. Zamani, M., **B.S. Kalani**, N. Khodaei, L. Lotfollahi, and F.M. Jazi, Corrigendum to â Prevalence of Premature Stop Codons (PMSCs) in *Listeria monocytogenes* isolated from clinical and food samples in Iranâ *Gene Rep.* volume 17 (2019) 100451 (*Gene Reports* (2019) 17,(S2452014419300937),(10.1016/j. genrep. 2019.100451)) (2020). *Gene Reports* 19. **IF:1.3**
35. Narimisa, N., **B.S. Kalani**, F. Amraei, R. Mohammadzadeh, S. Mirkalantari, S. Razavi, and F.M. Jazi, Type II toxin/antitoxin system genes expression in persister cells of *Klebsiella pneumoniae* (2020). *Reviews and Research in Medical Microbiology* 31(4): p. 215-220. **IF:-**
36. Narimisa, N., F. Amraei, **B.S. Kalani**, R. Mohammadzadeh, and F.M. Jazi, Effects of sub-inhibitory concentrations of antibiotics and oxidative stress on the expression of type II toxin-antitoxin system genes in *Klebsiella pneumoniae* (2020). *Journal of global antimicrobial resistance* 21: p. 51-56. **IF:4.6**
37. Narimisa, N., F. Amraei, **B.S. Kalani**, A. Azarnezhad, and F.M. Jazi, Biofilm establishment, biofilm persister cell formation, and relative gene expression analysis of type II toxin-antitoxin system in *Klebsiella pneumoniae* (2020). *Gene Reports* 21: p. 100846. **IF:1.3**
38. Moradkasani, S., F.M. Jazi, N. Sadeghifard, E. Kouhsari, **B.S. Kalani**, and I. Pakzad, Multiple-Locus Variable-Number Tandem-Repeat Analysis Genotyping of *Brucella* Isolates from Iran (2020). *Clinical Laboratory* 66(10): p. 1979-1986. **IF:0.7**
39. Mohammadzadeh, R., A. Shivaee, E. Ohadi, and **B.S. Kalani\***, In silico insight into the dominant type II toxin–antitoxin systems and Clp proteases in *Listeria monocytogenes* and designation of derived peptides as a novel approach to interfere with this system (2020). *International Journal of Peptide Research and Therapeutics* 26: p. 613-623. **IF:2.5**
40. Khodaei, N., **B.S. Kalani**, M. Zamani, R. Mohammadzadeh, M. Talebi, T. Narimani, N. Narimisa, and F.M. Jazi, Evaluation of the genetic relatedness of *Bacteroides fragilis* isolates by TRs analysis (2020). *Iranian Journal of Basic Medical Sciences* 23(10): p. 1323. **IF:2.2**

41. Javanmard, Z., **B.S. Kalani**, S. Razavi, N.N. Farahani, R. Mohammadzadeh, F. Javanmard, and G. Irajian, Evaluation of cell-penetrating peptide–peptide nucleic acid effect in the inhibition of cag A in *Helicobacter pylori* (2020). *Acta Microbiologica et Immunologica Hungarica* 67(1): p. 66-72. **IF:1.5**
42. Hemmati, A., K. Diba, S. Parvin, E. Ohadi, **B.S. Kalani**, and L. Lotfollahi, RAPD PCR and actA based molecular typing of *L. monocytogenes* isolated from human, food and domestic animals in northwest of Iran (2020). *Meta Gene* 26: p. 100790. **IF:0.7**
43. Amraei, F., N. Narimisa , **B.Sadeghi Kalani**, R. Mohammadzadeh, and V. Lohrasbi, The expression of type II TA system genes following exposure to the sub-inhibitory concentration of gentamicin and acid stress in *Brucella* spp (2020). *Microbial Pathogenesis* 144: p. 104194-104194. **IF:3.8**
44. Amraei, F., N. Narimisa, **B.Sadeghi Kalni**, V. Lohrasbi, and F.M. Jazi, Persister cells formation and expression of type II Toxin-Antitoxin system genes in *Brucella melitensis* (16M) and *Brucella abortus* (B19) (2020). *Iranian Journal of Pathology* 15(2): p. 127. **IF:-**
45. Zamani, M., F.M. Jazi, **B.S. Kalani**, and N. Khodaei, Prevalence of Premature Stop Codons (PMSCs) in *Listeria monocytogenes* isolated from clinical and food samples in Iran (2019). *Gene Reports* 17: p. 100451. **IF:1.3**
46. Shivaee, A., R. Mohammadzadeh, S. Shahbazi, E. Pardakhtchi, E. Ohadi, and **B.S. Kalani\***, Time-variable expression levels of mazF, atlE, sdrH, and bap genes during biofilm formation in *Staphylococcus epidermidis* (2019). *Acta Microbiologica et Immunologica Hungarica* 66(4): p. 499-508. **IF:1.5**
47. Shivaee, A., **B.S., Kalani**, M. Talebi, and D. Darban-Sarokhalil, Does biofilm formation have different pathways in *Staphylococcus aureus*? (2019). *Iranian Journal of Basic Medical Sciences* 22(10): p. 1147. **IF:2.2**
48. Ohadi, E., S. Khoramrooz, **B. Kalani**, M. Mirzaii, R. Pouriran, M. Nasrabadi, and D. Darban-Sarokhalil, Evaluation of high-resolution melting analysis for spa-typing of methicillin-resistant and-susceptible *Staphylococcus aureus* isolates (2019). *New Microbes and New Infections* 32: p. 100618. **IF:4**
49. Ohadi, E., H. Goudarzi, **B.S. Kalani**, A. Taherpour, A. Shivaee, and G. Eslami, Serotyping of *Listeria monocytogenes* Isolates from Women with Spontaneous Abortion

Using Polymerase Chain Reaction Method (2019). *Journal of Medical Bacteriology* 8(3-4): p. 8-17. **IF:-**

50. Mohammadzadeh, R., **B.S. Kalani**, M. Kashanian, M. Oshaghi, and N. Amirmozafari, Prevalence of vaginosis, sialidase and phospholipase genes in *Gardnerella vaginalis* isolates between bacterial vaginosis and healthy individuals (2019). *Medical Journal of the Islamic Republic of Iran* 33: p. 85. **IF:-**
51. Mohammadzadeh, R., A. Azadegan, and **B.S. Kalani\***, Listeriolysin S may inhibit the anti-listerial properties of *Lactobacillus plantarum* (2019). *Microbial pathogenesis* 137: p. 103744. **IF:3.8**
52. Mohammadzadeh, N., **B.S. Kalani**, S. Bolori, A. Azadegan, A. Gholami, R. Mohammadzadeh, and F. Masjedian Jazi, Identification of an intestinal microbiota signature associated with hospitalized patients with diarrhea (2019). *Acta Microbiologica et Immunologica Hungarica* 66(2): p. 189-202. **IF:1.5**
53. Mirzaei, R., **B.S. Kalani**, M.S. Moghadam, F. Mahdian, and G. Irajian, Multilocus variable number tandem repeat analysis and antimicrobial susceptibility pattern of *Staphylococcus epidermidis* isolates in Tehran, Iran (2019). *Reviews and Research in Medical Microbiology* 30(2): p. 95-108. **IF:-**
54. **Kalani, B.S.**, M. Najafi, R. Mohammadzadeh, S. Razavi, E. Ohadi, and G. Irajian, Targeting *Listeria monocytogenes* consensus sequence of internalin genes using an antisense molecule (2019). *Microbial pathogenesis* 136: p. 103689. **IF:3.8**
55. **Kalani, B.S.**, F. Khodaei, M. Moghadampour, L. Lotfollahi, E. Ohadi, M. Foroozeshfard, A. Shivaee, and G. Irajian, TRs analysis revealed *Staphylococcus epidermidis* transmission among patients and hospital (2019). *Ann Ig* 31: p. 52-61. **IF:2**
56. Hasanvand, H., F. Teymouri, E. Ohadi, A. Azadegan, and **B.S. Kalani\***, Biofilm formation in *Staphylococcus epidermidis* isolated from hospitalized patients (2019). *Archives of Clinical Infectious Diseases* 14(3). **IF:1.4**
57. Shivaee, A., M. Mirshekar, **B. Sadeghi Kalani**, D. Bordbar, E. Ohadi, and F. Masjedian Jazi, Evaluation of the Effects of Curcumin Nanoparticles on the Expression of Genes Involved in Biofilm Formation in UPEC (2018). *Infection Epidemiology and Microbiology* 4(4): p. 115-121. **IF:-**

58. Khodaei, F., **B.S. Kalani**, N. Alizadeh, A. Hassani, M. Najafi, E. Kalantar, A. Amini, and M. Aghazadeh, Genotyping and phylogenetic analysis of group B Streptococcus by multiple locus variable number tandem repeat analysis in Iran (2018). *Galen Medical Journal* 7: p. e1121. **IF:0.7**
59. **Kalani, B.S.**, G. Irajian, L. Lotfollahi, E. Abdollahzadeh, and S. Razavi, Putative type II toxin-antitoxin systems in *Listeria monocytogenes* isolated from clinical, food, and animal samples in Iran (2018). *Microbial pathogenesis* 122: p. 19-24. **IF:3.8**
60. Gheidar, H., A. Haddadi, **B.S. Kalani**, and N. Amirmozafari, Nanoparticles impact the expression of the genes involved in biofilm formation in *S. aureus*, a model antimicrobial-resistant species (2018). *Journal of Medical Bacteriology* 7(3-4): p. 30-41. **IF:-**
61. Ghanavati, R., E. Ohadi, H. Kazemian, F. Yazdani, A. Torki, **B.S. Kalani**, and G. Irajian, Evaluation of fosfomycin activity against extended spectrum beta lactamase (ESBL) producing Enterobacteriaceae isolated from three centers of Tehran, Iran (2018). *Recent patents on anti-infective drug discovery* 13(2): p. 180-186. **IF:-**
62. Farahani, N.N., F.M. Jazi, B. Nikmanesh, P. Asadolahi, **B.S. Kalani**, and N. Amirmozafari, Prevalence and antibiotic susceptibility patterns of *Salmonella* and *Shigella* species isolated from pediatric diarrhea in Tehran (2018). *Archives of Pediatric Infectious Diseases* 6(4). **IF:0.7**
63. **Behrooz, S.K.**, L. Lida, S. Ali, M. Mehdi, M. Rasoul, O. Elnaz, B.T. Farid, and I. Gholamreza, Study of MazEF, sam, and phd-doc putative toxin–antitoxin systems in *Staphylococcus epidermidis* (2018). *Acta microbiologica et immunologica Hungarica* 65(1): p. 81-91. **IF:1.5**
64. Abdollahzadeh, R., M.S. Fard, F. Rahmani, K. Moloudi, **B.S. Kalani** and A. Azarnezhad, Predisposing role of vitamin D receptor (VDR) polymorphisms in the development of multiple sclerosis: A case-control study (2016). *Journal of the neurological sciences* 367: p. 148-151. **IF:4.4**
65. **Kalani, B.S.**, A. Pournajaf, M. Sedighi, A. Bahador, G. Irajian, and F. Valian, Genotypic characterization, invasion index and antimicrobial resistance pattern in *Listeria monocytogenes* strains isolated from clinical samples (2015). *Journal of Acute Disease* 4(2): p. 141-146. **IF:0.5**

66. Bahador, A., **B.S. Kalani**, A. Pournajaf, M. Neghabi, and R. Solimany Jelodar, Typing and Evaluation of the Genetic Relatedness of *Listeria monocytogenes* Strains Isolated from Food Samples by the Multiple-Locus Variable number Tandem Repeat Analysis (MLVA) (2015). *Iranian Journal of Medical Microbiology* 8(4): p. 13-19. **IF:-**
67. Bahador, A., **B.S., Kalani**, F., Valian, G., Irajian, L. Lotfollahi, Phenotypic and genotypic characteristics of *Listeria monocytogenes* isolated from dairy and meat products (2015). *Avicenna Journal of Clinical Microbiology and Infection* 2(3): p. 26905-26905. **IF:-**
68. Irajian, G., **B.S. Kalani**. Typing and Evaluation of the Genetic Relatedness of *Listeria monocytogenes* Strains Isolated from Food Samples by the Multiple-Locus Variable Number Tandem Repeat Analysis (MLVA) (2014). *Iran J Med Microbiol: Volume* 8(4). **IF:-**
69. Rezaeifar, A., E. Eskandari-Nasab, M. Moghadampour, E. Kharazi-Nejad, S.-S.-A. Hasani, A. Asadi-Saghandi, M. Hadadi-Fishani, A. Sepanjnia, and **B. Sadeghi-Kalani**, The association of interleukin-18 promoter polymorphisms and serum levels with duodenal ulcer, and their correlations with bacterial CagA and VacA virulence factors (2013). *Scandinavian Journal of infectious diseases (Infectious Diseases)* 45(8): p. 584-592. **IF:5.8**
70. pournajaf A, I.L., irajian G, ardebili A, **Sadeghi Kalani B**, Taghizadeh Armaki M., The frequency of *Listeria monocytogenes* strains recovered from clinical and non-clinical samples using phenotypic methods and confirmed by PCR (2013). *Iran J Med Microbiol* 7(2): p. 14-19.
71. Eskandari-Nasab, E., A. Sepanjnia, M. Moghadampour, M. Hadadi-Fishani, A. Rezaeifar, A. Asadi-Saghandi, **B. Sadeghi-Kalani**, M.D. Manshadi, F. Pourrajab, and H. Pourmasoumi, Circulating levels of interleukin (IL)-12 and IL-13 in *Helicobacter pylori*-infected patients, and their associations with bacterial CagA and VacA virulence factors (2013). *Scandinavian journal of infectious diseases (Infectious Diseases)* 45(5): p. 342-349. **IF:5.8**
72. Eskandari-Nasab, E., M. Moghadampour, S.S. Hasani, M. Hadadi-fishani, S.A. Mirghanizadeh-Bafghi, A. Asadi-Saghandi, F. Zare, **B. Sadeghi-Kalani**, and M. Ghazali-bina, Relationship between  $\gamma$ -interferon gene polymorphisms and susceptibility to brucellosis infection (2013). *Microbiology and Immunology* 57(11): p. 785-791. **IF:2.6**

#### **NCBI Gene Records: 55 Genes**

Accession Numbers: MG011480.1 - MG011534.1

### Hobbies

- I like sport such as swimming, volleyball, biking and mountain climbing.
- I really love reading different books like novels, poems and surfing through the web in my academic field of study.

### References

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