

## Personal Information



**First name:** Vajihe Sadat

**Family name:** Nikbin

**Nationality:** Iranian

**Marital Status:** Married

**Child:** 1

**Date and Place of Birth:** 1979.3.6, Tehran

**Address:** *Department of Microbiology, Pasteur Institute of Iran*

**Tel:** +982166405535

**Fax:** +982166405535

**E.mail:** [vsnikbin@yahoo.com](mailto:vsnikbin@yahoo.com)

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### Education:

**1985-1997-**High School Diploma in "Experimental Sciences" (12 years)

**1999 to 2003,** BSc in Cellular and Molecular Biology, Tehran University, Tehran, Iran.

**2003 to 2006,** MSc in Microbiology, Al-Zahra University, Tehran, Iran.

**MSc thesis:** "Study of genomic pattern and plasmid profiling of nosocomial strains of *Pseudomonas aeruginosa*"

**2013-2019,** Ph.D by research in Medical Microbiology, Pasteur Institute of Iran.

**Ph.D thesis:** Design and construction of live attenuated *Bordetella pertussis* via mutagenesis in *ptx* gene as a nasal vaccine candidate.

## Language:

- English (Intermediate): No International score such as IELTS or TOEFL (in process)

## Work

2009-2017: (Full time)

- Laboratory Technician in Microbiology Department of Pasteur Institute of Iran.
- Quality Control Officer in Pertussis Reference Laboratory of Pasteur Institute of Iran.
- Laboratory Technician in Pertussis Reference Laboratory of Pasteur Institute of Iran. (Molecular diagnosis of *Bordetella* spp).

## Research Experience

- Research assistance in research thesis's in Pasteur Institute of Iran
  - ❖ Molecular analysis of extended-spectrum beta-lactamase (ESBL) and metallo beta-lactamase (MBL) genes in resistant strains of *Enterobacteriaceae* isolated from clinical specimens of Shahid Beheshti, Iran and Tehran university hospitals during one year
  - ❖ Investigation of bla SHV, bla PER and bla TEM genes in resistant *P. aeruginosa* isolated from clinical specimens
  - ❖ Molecular characterization of integrons containing metallo beta lactamase genes and mechanism of expansion of these genes in gram negative bacterial isolates from clinical settings
  - ❖ Polymorphism in *Bordetella pertussis* virulence factors pertactin, pertussis toxin and fimbriae among strains isolated from clinical specimens
  - ❖ Study of molecular epidemiology of virulence factors and antimicrobial susceptibility in *Bordetella pertussis* isolated from clinical specimens
  - ❖ Detection and isolation of *Bordetella* species from pertussis suspected patients by real-time PCR assay.
  - ❖ Preparation and evaluation of bivalent immunological complex of *Bordetella pertussis* toxin (PT) and filamentous haemagglutinin (FHA) (Primary phase of producing acellular *Bordetella pertussis* vaccine)
- Identification of bacteria such as *Pseudomonas*, *E. coli*, *Kelebsiella*, *Acinetobacter*, *Shigella*, *Proteus*, *Bordetella*, ...
- Molecular serotyping of *E. coli* by restriction of amplified flagellin genes
- Botulism test

- Plasmid extraction and plasmid profiling
  - DNA extraction
  - PCR technique for detection of resistance genes among bacteria
  - RFLP
  - Ribotyping
  - Real Time PCR
  - Dot blot hybridization
  - Southern blot
  - Pulsed field gel electrophoresis (PFGE)
  - SDS-PAGE
  - Western blotting
  - Cloning
  - Homologues recombination
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## Training activities

- The First workshop of "Gen Negar", the first Iranian DNA finger printing analysis software, 8-9 July 2008. School of Medicine, Tehran University of Medical Science.
- **ESCMID Postgraduate Education Course**  
Organized by the Turkish Society of Clinical Microbiology and Infectious Diseases Diseases (KLIMIK) *Acinetobacter* Infections Istanbul, Turkey, 3 – 4 September 2009
- Workshop of laboratory diagnosis of *Bordetella pertussis* and *Corynebacterium diphtheriae*, March 2010 Pasteur institute of Iran, Tehran
- One day workshop of biosafety on 4 Feb 2010, Pasteur institute of Iran, Tehran
- Workshop of Primer and Probe design for Real-Time PCR. 5-15<sup>th</sup> September 2011, Influenza research lab. Pasteur institute of Iran, Tehran
- Workshop of Endnote. 5-15<sup>th</sup> September 2011, Influenza research lab. Pasteur institute of Iran, Tehran
- Scientific paper writing workshop held by Iranian biomedical Journal. 29 April 2013. Pasteur Institute of Iran.
- Immunoinformatic workshop held by EMGEN. 6<sup>th</sup> August 2014, Pasteur Institute of Iran.

## Teaching Activities:

- Teaching assistant of some laboratory techniques to MSc student and trainees in Pasteur Institute of Iran 2007- Now.
- Practical assistant in workshop of laboratory diagnosis of *Bordetella pertussis* and *Corynebacterium diphtheriae* , March 2010. Pasteur institute of Iran, Tehran
- Practical assistant in Pulsed field gel electrophoresis (PFGE) workshop which was held by department of microbiology, 20-22 November 2011, 4-6 Feb 2013. 11-13 May 2013. Pasteur institute of Iran, Tehran
- Practical assistant in workshop of laboratory diagnosis of *Bordetella pertussis* February and Jun 2012. Pasteur institute of Iran, Tehran.
- Audit committee member in Pasteur Institute of Iran. 2014-2015
- Workshop manager in 23<sup>th</sup> Iran's International congress of Microbiology

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### Papers in Persian Journals (in Farsi)

1. Abdi Ali, A., **Nikbin, VS.**, Feizabadi, M.M., Gharavi. S., Fallahi Z. Study of Plasmid profiles and Antibiotic Resistance in nosocomial *Pseudomonas aeruginosa*. Iranian Journal of Biology 2005; 18(2): 141-149.
2. Shahcheraghi, F., **Nikbin, V.S.**, Shooraj F. PCR detection of PER, VEB, SHV and TEM  $\beta$ -lactamases in multi drug resistant *Pseudomonas aeruginosa* isolated from wound infections in two hospitals of Tehran. Iranian Journal of Medical Microbiology 2008; 1(4): 21-28.
3. F. Shahcheraghi, **V. Nikbin**. Investigation of Metallo-beta-lactamase and antibiotics resistance to ceftazidime and imipenem in *Pseudomonas aeruginosa* isolated from Clinical Specimen in Imam Khomeini and Markaze tebiekodakan hospital in 1384. Infectious Diseases and Tropical Medicine, 2007; 12: 19-22.
4. Shahcheraghi F, **Nikbin V.S**, Shooraj F, Shafiei M. *The study of bla<sub>SPM</sub>, bla<sub>VIM</sub>, bla<sub>IMP</sub> metallo-beta lactamase genes among Pseudomonas aeruginosa isolated from Imamkhomeini hospital of Tehran.* Journal of Shahid beheshti university Pejouhandeh, 2009; 2:68-72.
5. Aslani MM, Hashemipour M, Shahcheraghi F, Eidi A , **Nikbin VS**, Sharafi Z . PCR Identification of *Pseudomonas aeruginosa* from respiratory Infections Based on *oprI*, *oprL* and *toxA* encoding genes. Yafteh, 2009; 11: 23-29.
6. Mirzaei A, Keramati M, Slaminezhad Z, **Nikbin VS**, Roohvand F, Aslani MM. Comparision of PYR and Bacitracin tests for identification of groupA streptococci, Biological Science Journal, Lahijan Azad University. 2009; 3: 65-71.
7. Aslani MM, Sharafi Z, Shahcheraghi F, **Nikbin VS**, Ebrahimipour Gh, Hashemipour M. Molecular detection and identification of virulence factors of *Pseudomonas*

- aeruginosa* isolated from wound and burn infections. Journal of Shahid beheshti university Pejouhandeh 2011; 15(6): 286-92.
8. Aslani MM, Ebrahimipour Gh, Shahcheraghi F, Sharafi Z, **Nikbin VS**, Hashemipour M, Clonal diversity of *Pseudomonas aeruginosa* isolated from wound and burn infectious by ribotyping. Infectious Diseases and Tropical Medicine. 2010; 50: 45-49.
  9. Banisaeed SR, Aslani MM, **Nikbin VS**, Faezi M, Shahcheraghi F. Antibiotic resistance pattern among *Salmonella* spp. Isolated from clinical specimens in Tehran hospitals. Iranian Journal of Infectious Diseases. 2012; 16: 39-46.
  10. Ghandian Sh, Sattari M, **Nikbin VS**, Aslani MM. Study of antibiotic susceptibility pattern and presence of *ipaH* gene among *shigella* strains isolated from selected provinces in Iran. Modarres journal of Medical Sciences: Pathobiology 2011; 14: 81-88.
  11. Shahcheraghi F, Abedin M, Mousavi SF, **Nikbin VS**. The Role of AdeABC efflux pumps in resistance to imipenem among *Acinetobacter* spp. isolated from patients at Tehran hospitals. Journal of Microbiology Knowledge 2011; 3: 39-46.
  12. **Nikbin VS**, Alikhani MY, Shojaei H, Mousavi SF, Aslani MM. "Ribotyping of EPEC isolates from diarrheal and asymptomatic patients in Iran". Gastroenterol Hepatol Bed Bench 2012;5(2):94-99.
  13. Shahcheraghi F, Nakhost Lotfi M, Parzade M, **Nikbin VS**, Shooraj F, Zahraei SM. Isolation of *Bordetella pertussis* and *Bordetella parapertussis* from Clinical Specimens at Different Provinces of Iran in 2009-2010. J Mazand Univ Med Sci 2012; 22(88): 2-8.
  14. Hosseinpour M, Jannesar Ahmadi N, **Nikbin VS**, Shahcheraghi F. Sequence Variation of the Pertussis Toxin S1 Subunit Encoding Gene in the Clinical Isolates of *Bordetella pertussis* in Iran. Avicenna J Clin Microb Infec. 2015 August; 2(3): e21384.

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### **Papers in International Journals**

1. **Nikbin, VS.**, Abdi-Ali, A., Feizabadi, M.M., and Gharavi. S. Pulsed field gel electrophoresis & plasmid profile of *Pseudomonas aeruginosa* at two hospitals in Tehran, Iran. Indian Journal of Medical Research 2007; 126:146-151. (IF=1.2)
2. Shahcheraghi, F., **Nikbin, V.S.**, and Feizabadi, M.M. Prevalence of ESBLs genes among multi drug resistant isolates of *Pseudomonas aeruginosa* isolated from patients in Tehran. Microbial Drug Resistance. 2009; 15(1):37-9 (IF=2.3)

3. Rahbar M, Zahraei SM, **Nikbin VS**, Shooraj F, Shahcheraghi F. Transmission of *Vibrio cholera* O1 Serotype Inaba in a Rural Area of Qazvin, Iran Associated with Drinking Water.. Asian Journal of Epidemiology 2009; 2: 66-71.
4. Shahcheraghi F, **Nikbin VS**, Shooraj F, Feizabadi MM, Identification and genetic characterization of metallo- $\beta$ -lactamase producing strains of *Pseudomonas aeruginosa* in Tehran, Iran, New Microbiologica 2010; **33**, 243-248,
5. Nasehi L, Shahcheraghi F, **Nikbin VS**, Nematzadeh Sh. PER-1, CTX-M , TEM and SHV beta lact<sup>a</sup>mases in clinical isolates of *Klebsiella pneumonia* isolated from Tehran, Iran. Iranian journal of Basic Medical Science 2010; 13:111-118. (IF=1.8)
6. Nematzadeh S, Shahcheraghi F, Feizabadi MM, **Nikbin VS**, Nasehi L. Molecular characterization of CTX-M- $\beta$ -Lactamases among *Klebsiella Pneumoniae* isolated from patients at Tehran hospitals. Indian J Med Microbiol. 2011; 29(3):254-7. (IF=0.9)
7. **Nikbin VS**, Shahcheraghi F, Nakhost Lotfi M, Zahraei SM, Parzadeh M. Comparison of culture and real-time PCR for detection of *Bordetella pertussis* isolated from patients in Iran: Iran J Microbiol, 2013; 5:209-214.
8. Keramati M, Roohvand F, Eslaminejad Z, Mirzaie A, **Nikbin VS**, Aslani MM. PCR/RFLP-based allelic variants of streptokinase and their plasminogen activation potencies. FEMS Microbiology Letters. July 2012. 1-7. . (IF=2)
9. **Nikbin VS**, Aslani MM, Sharafi Z, Hashemipour M, Shahcheraghi F, Ebrahimipour GH. Molecular identification and detection of virulence genes among *Pseudomonas aeruginosa* isolated from different infectious origins. Iranian J Microbiol, 2012; 4: 118-123.
10. Shahcheraghi F, Nobari S, Rahmati Ghezalgeh F, Nasiri S, Owlia P, **Nikbin VS**, Imani Fooladi AA. First Report of New Delhi Metallo-Beta-Lactamase-1-Producing *Klebsiella pneumoniae* in Iran. Microb Drug Resist. 2013; 19:30-6. . (IF=2.3)
11. Shahcheraghi F; Nakhost Lotfi M; **Nikbin VS**; Shooraj F; Azizian R; Parzadeh M; Allahyar Torkaman MR; Zahraei SM. The First Macrolide-Resistant *Bordetella pertussis* Strains Isolated from Iranian Patients. Jundishapur J Microbiol. 2014; 7(6): e10880. (IF=0.9)
12. Torkaman MR, Kamachi K, **Nikbin VS**, Nakhost Lotfi M, Shahcheraghi F. Comparison of loop-mediated isothermal amplification and real-time PCR for detecting *Bordetella pertussis*. J Med Microbiol. 2015 Apr;64(Pt 4):463-5. (IF=2.1)
13. **Nikbin VS**, Jannesar Ahmadi N, Hosseinpour M, Nakhost Lotfi M, Shooraj F, Sadeghpour F, Shahcheraghi F. Virulence Factors Variation Among *Bordetella pertussis* Isolates in Iran. IJMCM 2015, 4( 2): 138-142.
14. Sadeghpour Heravi F, **Nikbin VS**, Shahcheraghi F. Allelic variations between vaccine strains and circulating strains in *pxtP* of *Bordetella pertussis* in Iran. Vaccine research, 2015 2( 1): 19-23.

15. Omid Azizi, Fereshteh Shahcheraghi, Himen Salimizand, Farzan Modarresi, Mohammad Reza Shakibaie, Shahla Mansouri<sup>1</sup>, Rashid Ramazanzadeh<sup>7</sup>, Farzad Badmasti, **Vajihe Nikbin**. Molecular Analysis and Expression of bap Gene in Biofilm-Forming Multi-Drug-Resistant *Acinetobacter baumannii* Reports of Biochemistry & Molecular Biology. 2016. 5(1): 62-72,
16. Seyedeh Marzieh Moosavi, Abbas Akhavan Sepahi, **Vajihe Sadat Nikbin**, Seyed Fazlollah Mousavi, Maryam Agha Abassi and Bahman Mirzaei. Molecular Appraisalment of Isolated Antibiotic Resistant Enterococci from Vaginal Specimen in Spontaneously Abortion Women's. SOJ Microbiol Infect Dis 5(1): 1-9. (IF=1.9)
17. Lotfi MN, **Nikbin VS**, Nasiri O, Badmasti F, Shahcheraghi F. Molecular detection of *Bordetella holmesii* in two infants with pertussis-like syndrome: the first report from Iran. Iran J Microbiol. 2017 Aug;9(4):219-223.
18. B. Kahali, **V.S. Nikbin**, F. Shahcheraghi, F. Kazemi, M. Rafipour, M. Keramati. Cloning and Expression of Mutant and Inactive Form of *Bordetella Pertussis* Toxin from Iranian Native Strain. J Babol Univ Med Sci; 19(2); Feb 2017; PP: 20-25.
19. Sadeghpour Heravi F, **Nikbin VS**, Nakhost Lotfi M, Badiri P, Jannesar Ahmadi N, Zahraei SM, Shahcheraghi F. Strain variation and antigenic divergence among *Bordetella pertussis* circulating strains isolated from patients in Iran. Eur J Clin Microbiol Infect Dis. 2018 37(10):1893-1900.(IF=2.5)
20. Badiri P, Noofeli M, Noormohammadi Z, **Nikbin VS**, Shahbazi T, Shahcheraghi F. Investigation of Genetic Variations in Virulence Factor Genes *ptxC*, *tcfA*, and *fhaB* of *Bordetella pertussis* Clinical Isolates and Vaccine Strains in Iran. IEM. 2018; 4 (3) :79-85.
21. Abdollahi S, Siadat SD, Shapouri R, Mirzaei B, Mousavi SF, **Nikbin VS** et al. Antibiotic Susceptibility and Prevalence of Adhesion Genes in *Streptococcus pneumoniae* Isolates Detected in Carrier Children in Tehran, Jundishapur J Microbiol. 2018 ; 11(6):e13256. doi: 10.5812/jjm.13256. (IF=0.9)
22. **Nikbin VS**, Keramati M, Noofeli M, Bolourchi N, Shams Nosrati MS *et al*. Characterization of a predominant *Bordetella pertussis* strain isolated from Iranian patients. *Vaccine Res* 2019;5:52-56.
23. Safarchi A, Octavia S, **Nikbin VS**, Nakhost Lotfi M, Zahraei SM, et al. Genomic epidemiology of Iranian *Bordetella pertussis*: 50 years after the implementation of whole cell vaccine, *Emerging Microbes & Infections* 2019; 8: 1416-1427.(IF: 6.03)

24. **Nikbin VS**, Keramati M, Noofeli M, Tayebzadeh F, Kahali B, Shahcheraghi F. Engineering of an Iranian Bordetella pertussis strain producing inactive pertussis toxin. J Med Microbiol. 2019 Nov 28. doi: 10.1099/jmm.0.001114. (IF:1.9)
25. Solgi H, Nematzadeh S, Giske C G, Badmasti F, Westerlund F, Lin YL, et al. Molecular Epidemiology of OXA-48 and NDM-1 Producing Enterobacterales Species at a University Hospital in Tehran, Iran, Between 2015 and 2016. Front. Microbiol., 28 May 2020. <https://doi.org/10.3389/fmicb.2020.00936>. (IF:5.6)
26. Noel G, Badmasti F, VS Nikbin, Zahraei SM, Madec Y, Tavel D, et al. Transversal sero-epidemiological study of Bordetella pertussis in Tehran, Iran. PLOS ONE | <https://doi.org/10.1371/journal.pone.0238398> September 1, 2020.
27. Fha Deficient Bordetella pertussis Isolates in Iran with 50 Years Whole Cell Pertussis Vaccination. Saedi S, Safarchi A, Tayebzadeh Moghadam F, Heidarzadeh S, Nikbin VS, Shahcheraghi F. Iran J Public Health, Vol. 50, No.7, Jul 2021, pp.1454-1462. (IF: 1.4)
28. Ahmadi K. Hasaniazad M. Habibi M. Ghaedi T. Kavousipour S. **VS Nikbin** et al. Evaluation of the immune response to a multi-epitope vaccine candidate in comparison with HlaH35L, MntC, and SACOL0723 proteins against MRSA infection. Biologicals. Available online 8 August 2021.(IF: 1.8)
29. Ashouri P, Mohammadshahi J, Nikbin VS, Peeridogaheh H, Mohammadi-Ghalehbin B, Refahi S, Teimourpour A, Esmaelizad M, Mirzaneghad H, Teimourpour R. Antimicrobial Resistance, Integron Carriage, and Fluoroquinolone Resistance Genes in Acinetobacte baumannii Isolates. Archives of Clinical Infectious Diseases. 2022 Oct 31;17(5).
30. Erfanimanesh S, Emaneini M, Modaresi MR, Feizabadi MM, Halimi S, Beigverdi R, Nikbin VS, Jabalameli F. Distribution and Characteristics of Bacteria Isolated from Cystic Fibrosis Patients with Pulmonary Exacerbation. Canadian Journal of Infectious Diseases and Medical Microbiology. 2022 Jan 1;2022.
31. Davari N, Khashei R, Pourabbas B, Nikbin VS, Zand F. High frequency of carbapenem-resistant Enterobacteriaceae fecal carriage among ICU hospitalized patients from Southern Iran. Iranian Journal of Basic Medical Sciences. 2022 Dec 1;25(12).
32. Firoozeh F, Neshan A, Khaledi A, Zibaei M, Amiri A, Sobhani A, Badmasti F, Nikbin VS. Evaluation of the effect of magnetic nanoparticles on extraction of genomic DNA of Escherichia coli. Polymer Bulletin. 2023 Mar;80(3):3153-63.



33. Jahantigh HR, Stufano A, Koohpeyma F, Nikbin VS, Shahosseini Z, Lovreglio P. Recombinant GPEHT Fusion Protein Derived from HTLV-1 Proteins with Alum Adjuvant Induces a High Immune Response in Mice. *Vaccines*. 2023 Jan;11(1):115.
34. Shahbazi R, Salmanzadeh-Ahrabi S, Aslani MM, Alebouyeh M, Falahi J, Nikbin VS. The genotypic and phenotypic characteristics contributing to high virulence and antibiotics resistance in *Escherichia coli* O25-B2-ST131 in comparison to non-O25-B2-ST131. *BMC pediatrics*. 2023 Dec;23(1):1-2.
35. Firoozeh F, Nikibakhsh M, Badmasti F, Zibaei M, Nikbin VS. Clonal relatedness of carbapenem-resistant *Acinetobacter baumannii*: high prevalence of ST136pas in a burn center. *Annals of Clinical Microbiology and Antimicrobials*. 2023 Dec;22(1):1-8.

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## Abstracts

- Abdi Ali, A., **Nikbin, VS.**, Feizabadi, M.M., Gharavi. S. Study of antimicrobial susceptibility and plasmid profiling in nosocomial *Pseudomonas aeruginosa* isolated from two hospital of Tehran. **8<sup>th</sup> Iranian congress of biochemistry and the first Iranian congress of Biochemistry and molecular Biology. 11-15 Sep 2005. Tehran (poster)**
- Shahcheraghi F., Moosavi S.F., **Nikbin V.**, Shooraj F. Investigation of Mex XY genes in multi drug resistance *Pseudomonas aeruginosa* isolated from clinical specimen by dot blot hybridization technique. **10<sup>th</sup> Western Pacific Congress on Chemotherapy and Infectious Diseases. 2006 Japan (poster)**
- Abdi Ali, A., **Nikbin, VS.**, Gharavi, S. Feizabadi, M.M. Pulsed field gel electrophoresis & plasmid profile of *Pseudomonas aeruginosa* strains isolated from patients at two hospitals in Tehran. **The 8<sup>th</sup> Iranian Congress of Microbiology 23-25 May 2006 Isfahan, Iran. (Oral)**
- Shahcheraghi, F, Bagheri O, **Nikbin VS.** Detection of Metallo-beta-lactamases in multi drug resistant *Pseudomonas aeruginosa* isolated from clinical specimens in a children hospital in Tehran, Iran. **5<sup>th</sup> World Congress of the World Society for Pediatric Infectious Disease 15-18 November 2007, Bangkok, Thailand (Poster)**
- Aslani M.M., Shahcheraghi, F., Ebrahimipour G.H., Sharafi Z., **Nikbin V.S.** Study of *lasB* and *toxA* genes in *Pseudomonas aeruginosa* isolated from wound and burn infections in Iran. **The 13<sup>th</sup> International Congress on Infectious Diseases, Kuala Lumpur 19-22 June, 2008. (Poster)**
- Shahcheraghi, F., **Nikbin, V.S.**, Shooraj F., Shafiei M. Molecular Characterization of metallo-β-lactamase and ESBLs genes in multi drug resistance *Pseudomonas aeruginosa* isolated from clinical specimens of Tehran, Iran. **11<sup>th</sup> Western Pacific**

congress on Chemotherapy and infectious disease. 29 November-3 December, 2008 Taipei, Taiwan. (Poster)

- **The 9<sup>th</sup> Iranian Congress of Microbiology 4-6 Mar 2008 Kerman, Iran. (Poster)**
  1. Shahcheraghi F, **Nikbin V.S**, Shooraj F, Akhbari N. Detection of PER and VEB type beta-lactamases genes in clinical isolates of *Pseudomonas aeruginosa* from a hospital in Tehran.
  2. Shahcheraghi F, **Nikbin V.S**, Shooraj F. Prevalence of TEM and SHV beta-lactamases genes and resistance to beta lactams and carbapenems in *Pseudomonas aeruginosa* isolated from Markaze Tebbi koodakan in Tehran.
  
- **The 10<sup>th</sup> Iranian Congress of Microbiology 21-23 April 2009 Ilam, Iran. (Poster)**
  1. **Nikbin V.S**, Shooraj F, Shafiei M, Noveiri H, Shahcheraghi F. Molecular study of imipenem resistant *Pseudomonas aeruginosa* strains isolated from respiratory tract infections from two hospitals in Tehran.
  2. Ghandian Sh, **Nikbin VS**, Aslani MM, Sattari M. Detection of *setIA* and *setIB* virulence genes in shigella strains isolated from different provinces in Iran.
  3. Hashemipour M., **Nikbin V**, Eidi A., Aslani M.M. Rapid Identification of *Pseudomonas aeruginosa* based on two outer membrane Lipoprotein (*oprI*, *oprL*) and Exotoxin A (*toxA*) Genes by PCR.
  
- **The 11<sup>th</sup> Iranian Congress of Microbiology and 1<sup>st</sup> East Mediterranean microbiology congress 10-13 May 2010 Guilan, Iran. (Poster).**
  1. Shacheraghi F, **Nikbin VS**, Shooraj F. Molecular Characterization of *Pseudomonas aeruginosa* carrying *bla<sub>VEB-1</sub>* isolated from clinical specimens.
  2. Hashemipour, M, Aslani, M , **Nikbin, VS**, Shahcheraghi F. Molecular typing and detection of *toxA* and *nanI* virulence factors in *Pseudomonas aeruginosa* isolated from tracheal infections.
  3. Abbasalipour M, Shahcheraghi F, Ebrahimipour Gh, **Nikbin VS**, Feizabadi MM. Detection of *bla<sub>OXA23</sub>* and *bla<sub>OXA51</sub>* among clinical *Acinetobacter* isolated from Tehran hospitals
  
- **First Iranian Congress of Clinical Microbiology 8-10 May 2007 Shiraz, Iran.(poster)**
  - ❖ Shahcheraghi F, **Nikbin V.S**, Shooraj F, Akhbari N. Phenotypic and molecular detection of nosocomial *Pseudomonas aeruginosa* isolates producing ESBLs in Tehran.
  - ❖ Shahcheraghi F, **Nikbin V.S**, Shooraj F, Akhbari N. Prevalence of resistance to beta lactam antibiotics and carbapenems in *Pseudomonas aeruginosa* isolated from Markaze Tebbi Koodakan in Tehran.
  
- **Second Iranian Congress of Clinical Microbiology 7-9 Oct 2008 Shiraz, Iran**

- ❖ Shahcheraghi F, **Nikbin V.S**, Shooraj F. Study of antibiotic resistance and prevalence of *bla*<sub>PER-1</sub> among *Pseudomonas aeruginosa* strains isolated from stool in Imam Khomainsi hospital and Markaz Tebbi Koodakan in Tehran. **(Oral)**
- ❖ Shakibaei MR, Shahcheraghi F, Hashemi A, Saeed Adeli N, **Nikbin V.S**. Evaluation and existence of TEM, SHV and PER extended-spectrum beta-lactamase genes in *Pseudomonas aeruginosa* isolated from burn patients in Shafa hospital of Kerman, Iran.
- ❖ Ghandian Sh, **Nikbin V.S**, Aslani MM, Sattari M. *Shigella* strain isolated from different provinces in Iran.
- ❖ Hashemipour M, **Nikbin V.S**, Aslani MM, Shahcheraghi F, Eidi A. Rapid identification and prevalence of virulence factors *tox*A and *non*I in *Pseudomonas aeruginosa* strains based on multiplex PCR.
- ❖ Sharafi Z, Aslani MM, **Nikbin V.S**, Shahcheraghi F, Ebrahimipour Gh, Molecular identification of *Pseudomonas aeruginosa* isolated from wound and burn infections using PCR for *opr*I and *opr*L genes and prevalence of *las*B gene among them.
- ❖ Shahcheraghi F, **Nikbin V.S**, Shooraj F, Shafiei. Beta lactamase and Metallo beta lactamase genes prevalence in multi drug resistance *Pseudomonas aeruginosa* isolated from wound infections in two hospitals of Tehran.
- **Third Iranian Congress of Clinical Microbiology 6-8 Oct 2009 Shiraz, Iran**
  1. Abbasalipour M, Akbari Shahmirzadi N, **Nikbin V.S**, Ebrahimipour Gh, Shahcheraghi F. Study of antimicrobial susceptibility pattern and determination of MIC among clinical isolates of imipenem resistant *Acinetobacter* from Tehran Hospitals. (Oral)
  2. Malekjamshidi MR, **Nikbin VS**, Shooraj F, Abbasalipour Bashash M, Shahcheraghi F Prevalence of Extended spectrum  $\beta$ -Lactamase (ESBLs) in clinical *Proteus* species isolated from Tehran hospitals..(poster)
  3. Mirzaei A, Keramati M, Roohvand F, Eslaminajad Z, **Nikbin VS**, Aslani MM.PCR-RFLP analysis of Streptokinase gene in  $\beta$ -hemolytic *Streptococci* isolates. (poster)
- **The 26<sup>th</sup> International Congress of Chemotherapy and Infection. 18-21 Jun Toronto, Canada (poster)**
  1. Shahcheraghi F, **Nikbin V.S**, Shooraj F, Shafiee M, Noveiri H. Metallo- $\beta$ -Lactamase producing strains of *Pseudomonas aeruginosa* in Iran.
  2. Ghandian Sh, **Nikbin V.S**, Sattari M and Aslani M.M. Molecular Characterization of *Shigella* spp. Isolated from Two Provinces of Iran by PCR and Ribotyping
- M Abbasalipour, N Akbari, **VS Nikbin**, F Shooraj, G Ebrahimipour, F Shahcheraghi. Distribution of *bla*<sub>VIM-2</sub> and *bla*<sub>GES-1</sub> genes among carbapenemase producing isolates of *Acinetobacter* spp. in Tehran, Iran. **FEMS The 3rd Congress of European Microbiologists Gothenburg, Sweden | June 28 – July 2, 2009.(poster)**

- Shahcheraghi F., **Nikbin V.S.**, Nasiri S., Noveiri H., Nasehi L., Nematzadeh S., Malekjamshidi M.R.. Molecular detection of beta lactamases encoding genes in *Enterobacteriaceae* species isolated from children in Tehran, Iran. **The 26th International Pediatric Association Congress of Pediatrics 2010 (IPA) Johannesburg, South Africa | August 4-9, 2010 (poster)**
- F. Shahcheraghi\*, S. Nobari, F. Rahmati Ghezalgeh, **V. Nikbin**, S. Nasiri, A. Imani Fooladi (Tehran, IR). First detection of New Delhi metallo-beta-lactamase in a multiple resistant strain of *Klebsiella pneumoniae* in Iran. **The ECCMID meeting, London from 31 March – 3 April 2012. ( poster)**
- Shahcheraghi F, **Nikbin VS**, Nakhost Lotfi M, Parzadeh M, Shooraj F, Zahraei SM. "Pertussis as a childhood illness in Iran" 30<sup>th</sup> **ESPID 2012 , Thessaloniki, Greece, May 8-12, 2012. ( poster)**
- **The 13th Iranian and 2th International Congress of Microbiology, July 14-16 2012, Ardebil, Iran**
  1. **Nikbin VS**, Shahcheraghi F, Nakhost Lotfi M, Parzadeh M, Shooraj F, Shafiee H. Detection of *Bordetella pertussis* in clinical samples based on real-time PCR and culture.(**poster**)
- **The 14th International Congress of Microbiology,28-30 August 2013, Tehran, Iran.**
  1. Nakhost Lotfi M, **Nikbin VS**, Shahcheraghi F. Identification of *Bordetella pertussis* by Real-time PCR using IS481 and BP283 targets. (**poster**)
  2. Torkaman MR, Nakhost Lotfi M, **Nikbin VS**, Parzadeh M, Shahcheraghi F. Detection of *Bordetella parapertussis* by Real-time PCR: A population based study in Iran. (**Oral**)
  3. Hosseinpour M, Shahcheraghi F, **Nikbin VS**, Jannesar Ahmadi N. Sequence variation of pertussis toxin S1 subunit gene in clinical *Bordetella pertussis* strains of Iranian isolates.
  4. Shooraj F, Mousavi SF, Siadat SD, Hosseini F, **Nikbin VS**, Jalali P, Nasiri O. Antimicrobial susceptibility of *Haemophilus influenzae* isolated from healthy children up to 6 years of age in Iran. (**poster**)
- **27th ECCMID 22-25 April 2017.** F. Sadeghpour Heravi, **V. Nikbin**, F. Shahcheraghi. Pulse-field gel electrophoresis of *Bordetella pertussis* circulating isolates and vaccine strain in Iran from 2009 to 2014. **Poster**
- **19<sup>th</sup> International Iranian Congress of Microbiology,4-6 September 2018, Tehran, Iran.**
  - Construction of PTX-deficient *Bordetella pertussis* vaccine strain 134 by allelic exchange. Vajihe Sadat Nikbin, Maliheh Keramati, Mogtaba Noofeli, Fereshteh Shahcheraghi. (**Oral**)
- **12<sup>th</sup> International Symposium on Bordetella**, April 9th-12th, 2019 – Brussels, Belgium, Vajihe Sadat Nikbin, Malihe Keramati, Mojtaba Noofeli, Fereshteh Shahcheraghi, Characterization of predominant *Bordetella pertussis* circulating strain isolated from patients in Iran. **Poster**
- **19<sup>th</sup> International Iranian Congress of Microbiology,4-6 September 2018, Tehran, Iran.**

- Engineering of PTX-inactivated *Bordetella pertussis* strain isolated from clinical specimens in Iran. Vajihe Sadat Nikbin, Maliheh Keramati, Mogtaba Noofeli, Fereshteh Shahcheraghi. **(Oral)**
- **20<sup>th</sup> International Iranian Congress of Microbiology, 4-6 September 2018, Tehran, Iran.**
- Mouse model study of a PTX inactivated clinical strain of *Bordetella pertussis* in Iran. Vajihe Sadat Nikbin, Maliheh Keramati, Mogtaba Noofeli, Fereshteh Shahcheraghi. **(Oral)**

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## **Grants and Awards**

### **❖ ESCMID Postgraduate Education Course**

Organized by the Turkish Society of Clinical Microbiology and Infectious Diseases (KLIMIK) *Acinetobacter* Infections  
*Istanbul, Turkey, 3 – 4 September 2009*

### **❖ 2013: Top employee award, Pasteur Institute of Iran, Tehran, Iran.**

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