

CURRICULUM VITAE



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Education:

2013 until now: **PhD, Medical Microbiology**, Pasteur Institute of Iran, Tehran, Iran

2002-2004: **MSc, Bacteriology** Tarbiat Modarres University, Tehran, Iran

1998-2000: **B.A, Medical Laboratory Science**, Tehran University, Tehran, Iran

1984-1986: **Associate Degree of Science**, Medical Laboratory Science - Iran Medical Science University, Tehran

1988 till now: **Research Associate**, Pasteur Institute of Iran, Microbiology Dept. Tehran, Iran

Professional Experience:

1. Diagnosis of bacteria by classical and molecular techniques
2. Ribotyping technique
3. Real-Time PCR detection
4. Antibacterial assays for nanomaterials
5. Protein extraction, PCR, SDS- PAGE, Gel Electrophoresis
6. Antibiotic Sensitivity Assays, MIC& MBC
7. Plasmid profiling, RFLP
8. QC, QA
9. Antigen purification
10. Elisa technique
11. OMV (Outer membrane vesicle) extraction

Training Activities:

1. Assisted in organizing workshop, Detection of *Bordetella Pertussis* & *Diphtheria* for other province employees of IRAN, 2008
2. Assisted in organizing international workshop, Detection of *B. Pertussis* & *Diphtheria* (Real-Time PCR & Classical Diagnosis of Pertussis) by Pasteur of Iran and Pasteur of France, November 26-29th, 2007
3. Assisted in organizing work-shop, detection of *B. Pertussis* & *Diphtheria* for other province employees of IRAN, 2007

4. Attending in training course on advanced molecular techniques organized by Biotechnology department (**Pasteur of Iran and Pasteur of France**), 2006
5. Assisted in organizing work-shop, detection of *B. Pertussis* & *Diphtheria* for other province employees of IRAN, 2005

Educational Scholarships:

1. Training course on molecular techniques of *B. Pertussis* and *B. parapertussis* (Real-Time PCR) in **Pasteur Institute of France, (4 months)** 2006
2. Training course on Classical techniques of *B. Pertussis* and *B. parapertussis* in **Pasteur Institute of France, (18 days)** 2005

Lecturer:

- Advanced molecular analysis techniques to MSc & PhD students ,2008.
- General molecular analysis techniques to undergraduate students (580 hours),2011.

Publications:

1. **Sedaghat M**, Siadat SD, Shahcheraghi F, Mirabzadeh Ardakani E, Keramati M, Vaziri F, Nojoumi SA. Assessment of Mouse Ileal loop Protection against Clinically Isolated *Vibrio cholerae* Outer Membrane Vesicles as a Vaccine Candidate. **Archives of Razi Institute, 75(4): 451-461, 2020.**
2. **Sedaghat M**, Siadat SD, Mirabzadeh Ardakani E, Keramati M, Vaziri F, Shahcheraghi F, Shafiei M. Evaluation of antibody responses to outer membrane vesicles (OMVs) and killed whole cell of *Vibrio cholerae* O1 El Tor in immunized mice. **IJM, 11(3):212-219, 2019.**

3. **Sedaghat M**, Siadat SD, Mirabzadeh Ardakani E, Keramati M, Vaziri F, Shahcheraghi F.
Determination of bactericidal activity of serum against *Vibrio cholerae* outer membrane vesicles in BALB/c mice. **Vaccine Research**, 5(2): 47-51, 2018.
4. **Sedaghat M**, Lotfi M, Talebi M, Saifi M, Pourshafie MR. Status of Pertussis in Iran.
Jundishapur J Microbiol , 7(11), 2014.
5. **Sedaghat M**, Talebi M, Rahimi F, Pourshafie MR. Description of vancomycin resistant *Enterococcus faecium* isolated from clinical samples in Tehran. **Current research in Bacteriology**, 5(2):53-58, 2012.
6. **Sedaghat M**, Rahimi F, Talebi M, Pourshafie MR. Serotyping, antibiotic susceptibility pattern and detection of *hlyA* Gene among Cholera Patients in Iran. **Jundishapur Journal of Microbiology**, 6(1):20-23, 2009.
7. Pourshafie MR, Saifi M, Mousavi SF, **Sedaghat M**, Nikbakht GH, Rubino S. Clonal Diversity of *Salmonella enterica* serotype Typhi isolated from patients with typhoid fever in Tehran. **Scand J Infect Dis**, 40(1): 18-23, 2008.
8. Pourshafie MR, Bakhshi B, Ranjbar R, **Sedaghat M**, Sadeghifard N, Zaemi Yazdi J, Parzadeh M, Raesi J. Dissemination of a single *Vibrio cholerae* clone in cholera outbreaks during 2005 in Iran. **J Med Microbio**, 56(Pt 12) , 2007.
9. **Sedaghat M**, Dorrani S, Pourshafie MR, Saifi M, Ranjbar R. Serotyping, antibiotics susceptibility assay and molecular detection of *hlyA* gene by PCR for one hundred samples collected from patients with cholera. **Iranian journal of Hygiene, Tehran University**, 2006.
10. Pourshafie MR, Vahdani P, Saifi M, Lotfi M, **Sedaghat M**. Antibiotic resistant pattern among *V.Cholerae* isolated from stool samples in Tehran(1377). **Yazd University**

Journal, 2001.

11. Pourshafie M.R, Saifi M, Reihani F, Shafiee E, **Sedaghat M**. Antibiotic resistance of more than 1000 pathogenic strains studied at the Pasteur Institute of Iran. **Yazd University Journal, 1998.**

Abstracts & Congress:

1. **(Poster presentation) Sedaghat M***, Shahcheraghi F, Siadat. S.D, Mirabzadeh E, Keramati M, Vaziri F. Antibody responses in balb/c mice immunized with *Vibrio cholerae* El Tor outer membrane vesicle (OMV). [The 29th ECCMID, 13-16 April 2019] Amsterdam, the Netherlands.
2. **(Poster presentation) Sedaghat M***. Serotyping, antibiotics susceptibility pattern and detection of *hlyA* gene among cholera patients in Iran, [The 24th ISCOMS Congress, 6-9 June, 2017] Groningen, the Netherlands.
3. **Pre-course participated** in scientific integrity; preparing scientific presentations;
Sedaghat M. [The 24th ISCOMS congress, 6 – 9 June, 2017] Groningen, the Netherlands.
4. **(Poster presentation) Sedaghat M**, Rahimi F, Talebi M, Pourshafie MR. Antibiotics susceptibility pattern, serotyping, and detection of *hlyA* gene among cholera patients in Iran. [II International conference in Antimicrobial research, (21-23 November 2012)] ICAR, 2012, Lisbon, Portugal.
5. **(Poster presentation) Ranjbar R**, Pourshafie MR, Sadeghifard N, Parzadeh M, **Sedaghat M**. Molecular characterization of epidemic isolates of *Vibrio cholerae* O1 recovered from

an outbreak that occurred in different parts of Iran in 2005.(ECCMID Helsinki), 2009.

6. **(Abstract) Sedaghat M**, Lotfi M, Guiso N, Pourshafie MR. Pertussis laboratory confirmed cases in Iran 2006-2008. (20th international congress of Pediatrics, Tehran/ Iran. oct 9-13), 2008.
7. **(Poster presentation) Sedaghat M**, Parzadeh M, Raisi J, Pourshafie MR. Genotyping and Phenotyping of *Vibrio Cholerae* in Iran, 2005. (12th International congress for Infectious Diseases in Lisbon, Portuguese, on June 15-18), 2006.
8. **(Abstract) Sedaghat M**, Pourshafie MR. Antibiotics susceptibility assay and molecular detection of *hlyA* gene in one hundred samples collected from patients with cholera in 2004. (8th National Congress of Microbiology, Isfahan), 2006.
9. **(Abstract) Sedaghat M**, Saifi M, Pourshafie MR. The detection of *HlyA* Gene and antibiotic resistance of cholera in 2004. (14th Congress on infectious diseases and tropical medicine, Tehran /Iran), 2005.
10. **(Oral presentation) Sedaghat M**, parzadeh M, Raisi J, Pourshafie MR. Molecular detection, antibiotic resistance and serotyping of cholera, Iran2005. (14th Congress on infectious diseases and tropical medicine, Tehran, Iran), 2005.
11. **(Abstract) Sedaghat M**, Saifi M, Pourshafie MR, The detection of *HlyA* gene and antibiotic resistance of cholera in 2004. (14th Congress on infectious diseases and tropical medicine, Tehran/ Iran), 2005.
12. **(Abstract) Oskoui M**, Shahcheraghi F, Amirkhani A, **Sedaghat M**. Detection of vancomycin resistance in *Enterococcus* species and characterization of *Van B* gene. (9th Congress on infectious diseases and tropical Medicine, Tehran/ Iran), 2000.

13. **(Abstract)** Oskoui M, Faizabadi M, Shafiee A, **Sedaghat M**. Identification of the genetic patterns, serotypes and antimicrobial resistance of *Streptococcus pneumoniae* isolated from pneumococcal infection. (9th Congress on infectious diseases and tropical Medicine, Tehran/ Iran), 2000.
14. **(Abstract)** Pourshafie MR, Saifi M, Hassan zadeh F, **Sedaghat M**. Evaluation of antibiotic resistance of the *V.cholerae* strains isolated from the clinical samples in Tehran. (3th Congress on infectious diseases, Paris, France), 1999.
15. **(Abstract)** Pourshafie MR, Saifi M, **Sedaghat M**. Investigation, epidemiological molecular *Enteritica Salmonella typhi* in Tehran, Iran. (8th Congress on infectious diseases and tropical Medicine. Tehran/ Iran), 1999.
16. **(Abstract)** Pourshafie MR, Saifi M, **Sedaghat M**. Investigation, epidemiological infection gastroenteritis in the North of Iran. (8th Congress on infectious diseases and tropical Medicine. Tehran/ Iran), 1999.
17. **(Abstract)** Pourshafie MR, Saifi M, Grimont F, **Sedaghat M**. Molecular and phenotypic study of *Vibrio cholerae* in Iran. (8th Congress on infectious diseases and tropical Medicine Tehran/ Iran), 1999.
18. **(Abstract)** Aslani M, Badami N, **Sedaghat M**. Verotoxin – producing *Escherichia coli* (VTEC) infection in randomly selected population of Ilam province (Iran). (8th Congress on infectious diseases and tropical Medicine. Tehran/ Iran), 1999.
19. **(Abstract)** Oskoui M, **Sedaghat M**, Shafiee E. Investigation of the effect of cephalosporins on pneumococcus resistance to penicillin. (8th Congress on infectious diseases and tropical Medicine. Tehran/ Iran), 1999.

Research Projects: Cooperation in 16 projects from 1370 till now.

Editor of Book: Laboratory Control Program, for Diphtheria and Pertussis diseases

(1386)

Cooperation in the preparation of protocols of Iran National Standards

Organization (INSO).

Invited as Reviewer:

Oman Medical journal

Iranian journal microbiology

Certificates:

ICDL (Computer Programs)

Language: Persian, English