



In The Name of God

**C.V**

Name: Forough

Family Name: Yousefi

Date of Birth: 1981

Place of Birth: Bushehr – Iran

Marital Status: Married

Mailing Address: Professor Forough Yousefi

Department of Microbiology and Parasitology

Faculty of Medicine

Bushehr University of Medical Sciences

Moallem st. Bushehr , Iran

P.O,Box: 3631

Tel: +98-77 33320657

Fax: +98 77 33320657

Mobile phone: +98- 9173711614

Email: Forough.y@gmail.com

And F.yousefi@bpums.ac.ir

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**Academic Education:**

Ph.D. in Bacteriology

Pasteur Institute of Iran

Tehran- Iran

2010-2015

Title of Thesis: Design and Preparation of TGF $\alpha$ L3-SEB Fusion protein with Using Most Prevalent *Staphylococcus aureus* Entrotoxin B (*seb*) Genotype as a Candidate for breast Cancer Immunotherapy

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M.Sc. in Microbiology

Mashhad Medical University

Mashhad-Iran

2005-2008

Title of Thesis: Cloning, expression and purification of 10kd Culture Filtrated Protein (CFP-10) of Mycobacterium tuberculosis

B.Sc in Medical Microbiology

Medical Laboratory science

Shahid Beheshti University

Tehran- Iran

2003-2005

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**Research Interests:**

- 1- Antibacterial research ( Natural antibacterial compounds)
  - 2- Marine biotechnology ( Finding new antibacterial Compounds)
  - 3- Detection of antibiotic resistance in bacteria
  - 4- Anticancer research
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**Technical Abilities:**

- 1- Basic molecular biology and recombinant DNA technology (DNA/RNA extraction, cloning, PCR, RT-PCR).
- 2- Recombinant protein expression in bacteria
- 3- Protein purifications
- 4- Western-blot
- 5- Mammalian cell culture and in vitro analysis assay
- 6- Humoral immune response analysis (ELISA)
- 7- Cellular immune response analysis (in vivo cytotoxicity assay)
- 8- Bioinformatics and in silico analysis assay (DNA and protein alignments, Blast analysis, MHC binding, Ligand-receptor interaction)
- 9- Handling and working with Lab. animals (bleeding, injection, euthanasia)
- 10- Medical Lab. diagnosis tests (Serology, Microbiology)

11- Antiviral research (natural antiviral compounds)

12- Antibacterial research (MIC and MBC)

13- Antibacterial resistance research

14- Cancer immunotherapy research

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### **Work Experiences:**

1. 2017-Present, work as assistant professor of medical bacteriology in medical college of Bushehr Medical Science University.
2. 2010-2015, Medical University, Teaching Assistant in Bacteriology, Bushehr University of Medical Sciences, IRAN.
3. 2008- 2010, Medical University Lab, Teaching Assistant in Immunology, Bushehr University of Medical Sciences, IRAN.
4. 2008- 2010, Medical University Lab, Teaching Assistant in Bacteriology, Bushehr University of Medical Sciences, IRAN.
5. 2005- 2006, Mobin Medical Lab, Laboratory Supervisor, Tehran, IRAN.
6. 2002- 2003, Medical Lab, Laboratory Supervisor, Central Laboratory in Bushehr, IRAN.

### **Teaching Courses:**

1. Medical Bacteriology
2. Bacterial Physiology
3. Bacterial Genetics
4. Diagnostic Bacteriology

### **Publications:**

1. Seyedi M, Yousefi F, Naeimi B, Tajbakhsh S. Phenotypic and genotypic investigation of metallo- $\beta$ -lactamases in *Pseudomonas aeruginosa* clinical isolates in Bushehr, Iran. *Iranian Journal of Basic Medical Sciences*. 2022;25(10):1197-1200.

Latifi B, Tajbakhsh S, Ahadi L, Yousefi F. Coexistence of aminoglycoside resistance genes in CTX-M-producing isolates of *Klebsiella pneumoniae* in Bushehr province, Iran. *Iranian Journal of Microbiology*. 2021;13(2):161.

2. Dorgalaleh A, Tabibian S, Baghaipour MR, Dabbagh A, Bahoush G, Jazebi M, et al. Challenges and concerns of patients with congenital bleeding disorders affected by coronavirus disease 2019. *Blood Coagulation & Fibrinolysis*. 2021;32(3):200-3.

3. Latifi B, Tajbakhsh S, Askari A, Yousefi F. Phenotypic and genotypic characterization of carbapenemase-producing *Klebsiella pneumoniae* clinical isolates in Bushehr province, Iran. *Gene Reports*. 2020;21:100932.

4. Dorgalaleh A, Baghaipour MR, Tabibian S, Ghazizadeh F, Dabbagh A, Bahoush G, et al. Gastrointestinal bleeding in a newborn infant with congenital factor X deficiency and COVID-19: A common clinical feature between a rare disorder and a new, common infection. *International Journal of Laboratory Hematology*. 2020;42(6):e277-e9.

5. Mahmudpour M, Askari A, Yousefi F. Antibacterial Effect Leaf Extract of *Avicennia marina* on Standard and Clinical Strains of *Acinetobacter baumannii*. *ISMJ*. 2019;22(3):150-9.

6. Yousefi F, Siadat SD, Aslani MM, Imani-Fooladi AA, Nasiri O, Mousavi SF. Cloning, expression, purification and the study of immunotherapy status of TGF $\alpha$ L3-SEB chimeric protein in breast cancer treatment. *Journal of Torbat Heydariyeh University of Medical Sciences*. 2018;6(3):13-25.

7. Yousefi F, Siadat SD, Saraji AA, Hesaraki S, Aslani MM, Mousavi SF, et al. Tagging staphylococcal enterotoxin B (SEB) with TGF $\alpha$ L3 for breast cancer therapy. *Tumor Biology*. 2016;37(4):5305-16.

8. Yousefi F, Mousavi SF, Siadat SD, Aslani MM, Amani J, Rad HS, et al. Preparation and in vitro evaluation of antitumor activity of tgf $\alpha$ l3-seb as a ligand-targeted superantigen. *Technology in cancer research & treatment*. 2016;15(2):215-26.

9. Yousefi F, Mousavi SF, Siadat SD, Imani-Fooladi AA, Aslani MM, Nasiri O. Properties of TGF $\alpha$ L3-SEB fusion protein as a ligand targeted superantigen in breast tumor-bearing mice following intravenous or intratumoral injection. 2015.

13. Imani-Fooladi AA, Yousefi F, Mousavi SF, Amani J. In silico design and analysis of TGF $\alpha$ l3-seb fusion protein as “a new antitumor agent” candidate by ligand-targeted superantigens technique. *Iranian journal of cancer prevention*. 2014;7(3):152.

10. Zarif R, Sankian M, Gholubi A, Farshadzadeh Z, Soleimanpour S, Youssefi F, et al. Cloning and expression of Mycobacterium tuberculosis major secreted protein antigen 85B (Ag85B) in Escherichia coli. 2013.
  11. Zandi K, Tajbakhsh S, Nabipour I, Rastian Z, Yousefi F, Sharafian S, et al. In vitro antitumor activity of Gracilaria corticata (a red alga) against Jurkat and molt-4 human cancer cell lines. African Journal of Biotechnology. 2010;9(40):6787-90.
  12. Zandi K, Ramedani E, Mohammadi K, Tajbakhsh S, Deilami I, Rastian Z, et al. Evaluation of antiviral activities of curcumin derivatives against HSV-1 in Vero cell line. Natural product communications. 2010;5(12):1934578X1000501220.
  13. Zandi K, Ahmadzadeh S, Tajbakhsh S, Rastian Z, Yousefi F, Farshadpour F, et al. Anticancer activity of Sargassum oligocystum water extract against human cancer cell lines. European review for medical and pharmacological sciences. 2010;14:669-73.
  14. Gholoubi A, Sankian M, Zarif R, Farshadzadeh Z, Yousefi F, Sadeghian A, et al. Molecular cloning, expression and purification of protein tb10. 4 secreted by mycobacterium tuberculosis. iranian journal of basic medical sciences. 2010;13(4):189-93.
  15. Farshadzadeh Z, Sankian M, Yousefi F, Gholubi I, Zarif R, Naderi Nasab M, et al. Cloning, expression and purification of early secretory antigenic target 6kDa protein (ESAT-6) of Mycobacterium tuberculosis. 2010.
  16. Yousefi F, Sankian M, Moghadam M, Farshadzadeh Z, Gholoubi A, Zarif R, et al. Cloning, expression and purification of 10 kd culture filtrated protein (CFP-10) of Mycobacterium tuberculosis. African Journal of Biotechnology. 2009;8(16).
  17. Bazzaz B, Naderinasab M, Mohamadpoor A, Farshadzadeh Z, Ahmadi S, Yousefi F. The prevalence of extended-spectrum beta-lactamase-producing Escherichia coli and Klebsiella pneumoniae among clinical isolates from a general hospital in Iran. Acta microbiologica et immunologica Hungarica. 2009;56(1):89-99.
  18. Naderinasab M FZ, Yousefi F. Determine the inducible resistance phenotype in methicillin resistance staphylococcus aureus and coagulase negative staphylococci. Iran J Med Microbiol. 2007;1(3):25-31.
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### **Presentations:**

1. "Investigation of biofilm formation among clinical isolates of *Klebsiella pneumoniae* in Bushehr province, Iran" 23<sup>rd</sup> International and Iranian Congress of Microbiology. Tehran-Iran. 30 August- 1 September 2022.
2. "Detection of Plasmid-mediated Amp-C  $\beta$ -Lactamase in *Klebsiella pneumoniae* Clinical Isolates" 22<sup>nd</sup> International and Iranian Congress of Microbiology. Tehran-Iran. 28 August- 2 September 2021.
3. "Prevalence of Aminoglycoside Modifying Enzyme Genes, *aac(3)IIa* and *aac(6')Ib* in ESBL-Producing *Klebsiella pneumoniae* Isolated in Bushehr Province, Iran" 13<sup>th</sup> Prof Alborzi International Congress of Clinical Microbiology Shiraz-Iran 8-10 October 2019.
4. "Phenotypic and Genotypic Identification of Carbapenemase-producing *Klebsiella pneumoniae* in Bushehr Province, Iran". 20<sup>th</sup> International and Iranian Congress of Microbiology. Kerman-Iran. 27-29 August 2019.
5. "Investigation antimicrobial resistance pattern and detection of the *sul* genes in *Stenotrophomonas maltophilia* isolates in Bushehr, Iran" 20<sup>th</sup> International and Iranian Congress of Microbiology. Kerman-Iran. 27-29 August 2019.
6. "Prevalence of *bla* CTX-M Genes among ESBL-Producing *Klebsiella pneumoniae* in Bushehr Province, Iran" 20<sup>th</sup> International and Iranian Congress of Microbiology. Kerman-Iran. 27-29 August 2019.
7. Oral presentation: "Properties of TGF $\alpha$ L3-SEB fusion protein as a ligand targeted superantigen in breast tumorbearing mice following intravenous or intratumoral injection" 10<sup>th</sup> International Breast Cancer Congress. Tehran Iran 2014.
8. "Preparation and In Vitro Evaluation of Antitumor Activity of TGF $\alpha$  L3-SEB as a Ligand-Targeted Superantigen" 15<sup>th</sup> International and Iranian Congress of Microbiology. Tehran-Iran.2014.
9. "Design, cloning and expression of TGF $\alpha$  L3-SEB fusion protein as an antitumor candidate in cancer immunotherapy" 14<sup>th</sup> International and Iranian Congress of Microbiology. Tehran Iran.2013.
10. "Cloning, expression and purification of 10 kd culture filtrated protein (CFP-10) of *Mycobacterium tuberculosis*" 19<sup>th</sup> International congress of Tuberculosis, zanzan, Iran, Oct 2008.

11. "Cloning, expression and purification of Early Antigenic Target 6 (ESAT-6) of *Mycobacterium tuberculosis*" 2<sup>th</sup> Iranian Congress of Clinical Microbiology, Shiraz, Iran, Oct 2008.
12. "Cloning, expression and purification of 10 kd culture filtrate protein (CFP-10) of *Mycobacterium tuberculosis*" 2<sup>th</sup> Iranian Congress of Clinical Microbiology, Shiraz, Iran, Oct 2008.
13. "Detection of inducible clindamycin resistance in methicillin-resistant *Staphylococcus aureus* and coagulase-negative staphylococci" 9<sup>th</sup> National Congress of Microbiology, Kerman, Iran, Mar 2007

**Research Projects:**

1. Operator of Phenotypic and genotypic investigation of fluoroquinolones resistance in *Klebsiella pneumoniae* clinical isolates in Bushehr province, Iran.
2. Operator of Investigating the prevalence of antimicrobial resistance and its related genes in *Klebsiella pneumoniae* isolated from clinical specimens in Bushehr province, Iran.
3. Operator of Phenotypic and genotypic investigation of plasmid-mediated AmpC in clinical isolates of *Klebsiella pneumoniae* in Bushehr, Iran.
4. Operator of Investigation of virulence gene profiles and biofilm formation among clinical isolates of *Klebsiella pneumoniae* in Bushehr Province, Iran.
5. Co-operation in Investigating the prevalence of antimicrobial resistance and its related genes in *Klebsiella pneumoniae* isolated from clinical specimens in Bushehr province, Iran.
6. Co-operation in Investigating antimicrobial resistance pattern and sul and dfrA genes in *Stenotrophomonas maltophilia* isolated from clinical specimens in Bushehr, Iran
7. Co-operation in Investigation of ESBL-producing *Pseudomonas aeruginosa* isolates in Bushehr, Iran, by phenotypic and genotypic methods
8. "Operator of investigation about anticancer activity of *G.corticata*, a red alga" Supported by Bushehr Medical Science University, IRAN.

9. Co-operation in investigation about antiviral effect of *Curcumin* on HSV-1” Supported by Bushehr Medical Science University, IRAN.
10. Co-operation in investigation about anticancer activity of *sargassum oligocystum*, a brown alga” Supported by Bushehr Medical Science University, IRAN.
11. Co-operation in Determine the inducible resistance phenotype in methicillin resistance staphylococcus aureus and coagulase negative staphylococci” Supported by Mashhad Medical University, Mashhad-IRAN.
12. Co-operation in The prevalence of extended-spectrum beta-lactamase-producing *Escherichia coli* and *Klebsiella pneumoniae* among clinical isolates from a general hospital in Iran” Supported by Mashhad Medical University, Mashhad-IRAN.

**As Supervisor or Consulting Advisor for Theses:**

1. Investigating the presence and phenotypic expression of efflux pumps in multi-drug resistant *Klebsiella pneumoniae* clinical isolates in Bushehr Province, Iran.
2. Phenotypic and genotypic investigation of fluoroquinolones resistance in *Klebsiella pneumoniae* clinical isolates in Bushehr province, Iran.
3. Investigation of virulence factors and genes associated with biofilm and protease in *Stenotrophomonas maltophilia* isolates in Bushehr, Iran.
4. Phenotypic and molecular investigation of virulence factors in *Pseudomonas aeruginosa* clinical isolates in Bushehr, Iran.
5. Investigating the prevalence of antimicrobial resistance and its related genes in *Klebsiella pneumoniae* isolated from clinical specimens in Bushehr province, Iran.
6. Phenotypic and genotypic investigation of plasmid-mediated AmpC in clinical isolates of *Klebsiella pneumoniae* in Bushehr, Iran.
7. Investigation of virulence gene profiles and biofilm formation among clinical isolates of *Klebsiella pneumoniae* in Bushehr Province, Iran.
8. Investigating the prevalence of antimicrobial resistance and its related genes in *Klebsiella pneumoniae* isolated from clinical specimens in Bushehr province, Iran.



9. Investigating antimicrobial resistance pattern and sul and dfrA genes in *Stenotrophomonas maltophilia* isolated from clinical specimens in Bushehr, Iran
  10. Investigation of ESBL-producing *Pseudomonas aeruginosa* isolates in Bushehr, Iran, by phenotypic and genotypic methods
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**Awards:**

- 1- Top poster in The 20th International and Iranian Congress of Microbiology. Tehran-IRAN.
  - 2- Top poster in The 14th International and Iranian Congress of Microbiology. Tehran-IRAN.
  - 3- Top poster in The 15th International and Iranian Congress of Microbiology. Tehran-IRAN.
  - 4- Ranking 4th in bacteriology Ph.D entrance exam
  - 5- Top Student with distinction in M.Sc. with average of 19.41
  - 6- Second student in Ph.D with average of 19.08
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**Memberships:**

1. Members of Iranian Society for Microbiology, Iran, 2007-present.