CURRICULUM VITAE

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Nationality: Iranian
Date of Birth: 8/8/1980
Marital Status: Married
Education:
(2009-2014): Ph.D, Microbiology, Alzahra university,Tehran,Iran
(2004-2006) : *Ms.c, Microbiology*, Alzahra university,Tehran,Iran
(1998-2002): *B.A, Cell and Molecular biology*, (Microbiology), Azad University,Tehran,Iran.
Research Experience:
1. Antibacterial activity assays
2. Antibiotic sensitivity assays
3. Culture and biochemical identification of bacteria
4. Molecular techniques such as: PCR, ELISA, gel filteration, chromatography, thin layer chromatography, PFGE, Ribotyping, Plasmid profiling ,RFLP.
5. Two dimensional gel electrophoresis (2-DE)
6.Anaerobic bacteria

Training activities:
1. Workshop on "New trends in enzyme science and nanobiotechnology" organized by National Institut of Genetic engineering and biotechnology (NIGEB) and Instituto di Biochemical protein (IBP) of Italy **(2007)**
2. Workshop on " Bioinformatics " organized by Iranian Molecular Medicine Network of Pasteur Institute of Iran,**(2009)**

Teaching activities:
1. Teaching Assistant during four days workshop on (Real time PCR and classical diagnosis of pertussis) organized by Pasteur Institute of Iran and Pasteur Institut of France**.**
2. Teaching students of Azad university-medical branch
3. Teaching Ph.D and Ms.c students of Pasteur Institute of Iran
4. Teaching Ms.c students of Elm and Farhang university.

Publications:

A. Articles

1. Abdi ali A, Shafiei M, Ghazanfari T, Honarmandian Sh, Khajeh Kh. Purification of *Pseudomonas aeruginosa* alginate and the study the compound of alginate with immunomodulator fraction of garlic on humoral immunity in BALB/c mice, Iranian journal of infectious disease and tropical medicine, 23-27, (2007)

2. Akbarzadeh A, Norouzian D, Farhangi A, Mehrabi MR, Atyabi M, Zare D,…, Shafiei M, Mardaneh M. The study of desferal production by *Streptomyces griseoflavus,* Journal of Medical science of Azad university, 16(4) 225-23,(2007)

3. Akbarzadeh A, Norouzian D, Farhangi A, Mehrabi MR, Shafiei M , Zare D, Saffari Z,…, Nemati Z. Mutation of *Streptomyces griseoflavus* in order to obtain high yield desferrioxamine producing fused cells, Pakistan journal of biological sciences , 10(24) 4527-453,(2007)

4. Akbarzadeh A, Norouzian D, Farhangi A, Mehrabi MR, Jamshidi Sh, Zare D, Shafiei M .Isolation and purification of Rat islet cells by flow cytometry,Indian Journal of clinical biochemistry, 23(1)57-61, (2008)

5. Ghazanfari T, Honarmandian Sh, Abdi ali A, Shafiei M, Khajeh Kh.The effect of combination of *Pseudomonas aeruginosa* alginate and an immunomodulator protein of garlic on opsonophagocytosis in murine model, Journal of Kerman medical science .15(4) 283-294, (2008)

6. Shahcheraghi F, Nikbin V.S, Shooraj F, Shafiei M. The Study of bla SPM, blaVIM, blaIMP metallo-beta lactamase genes among *Pseudomonas aeruginosa* isolated from Imamkhomeini hospital of Tehran. Journal of Shahid beheshti university (Pajoohandeh),(submitted), (2009).

7. Shafiei M, Abdi Ali A, Shahcheraghi F, Saboora A, Akbari Noghabi K. Eradication of Pseudomonas aeruginosa Biofilms Using the Combination of n-butanolic Cyclamen coum Extract and Ciprofloxacin. Jundishapur J Microbiol.7(2).(2014).

8. Abdi Ali A, Shafiei M, Shahcheraghi F, Saboora A and Ghazanfari T. The study of synergistic effects of n-butanolic Cyclamen coum extract and ciprofloxacin on inhibition of *P. aeruginosa* biofilm formation. Biological journal of microorganisms. 3(12):25-32. (2015).

9. Morvarid Shafiei, Ahya Abdi-Ali, Fereshteh Shahcheraghi ,Hojatollah Vali , Hossein Shahbani Zahiri4 & Kambiz Akbari Noghabi. .*Analysis of Pseudomonas aeruginosa* PAO1 biofilm protein profile after exposure to n-Butanolic Cyclamen coum extract alone and in combination with Ciprofloxacin. *Appl Biochem Biotechnol*. 182(4):1444-1457 (IF:1.797) (2017)

10. Soheila Davaeifar, Mohammad-Hossein Modarresi, Mehdi Mohammadi, Ehsan Hashemib, Morvarid Shafiei, Hadi Maleki. Synthesizing, characterizing, and toxicity evaluating of Phycocyanin-ZnO nanorod composites: A back to nature approaches. Colloids and Surfaces B: Biointerfaces 175 221–230. (2019) (IF:3.995)

11. Shirin Ebrahimi, Morvarid Shafiei, Abdolmajid Ghasemian, Seyyed Khalil Shokouhi Mostafavi, Rashid Jamei and Farshad Nojoomi. Cloning and Expression Assessment of Uricase Gene from *Bacillus subtilis* in Some *Escherichia coli* Strains". *EC Microbiology* 14.8 (2018).

12. M Shafiei, A Ghasemian, M Eslami, F Nojoomi, H Rajabi-Vardanjani. Risk factors and control strategies for silicotuberculosis as an occupational disease. New microbes and new infections. 27, 75-77. (2019).

13. A Ghasemian, M Shafiei, F Hasanvand, SKS Mostafavi. Carbapenem and colistin resistance in Enterobacteriaceae: worldwide spread and future perspectives. Reviews in Medical Microbiology. 29 (4), 173-176. (2018)

14. M Shafiei, A Ghasemian, SKS Mostafavi, M Teimouri, HR Vardanjani, ...Gold nanoparticle-based colorimetric platform technology as rapid and efficient bacterial pathogens detection method from various sources. Reviews in Medical Microbiology. 30 (2), 128-132

16.(2019).

15. Zafari M, Adibi M, et al, Shafiei M*.Effects of cefazolin-containing niosome nanoparticles against methicillin-resistant Staphylococcus aureus biofilm formed on chronic wounds. Biomed Mater. doi: 10.1088/1748-605X/abc7f2 . (2021).(IF:3.1).

16. Ebadi M, Zolfaghari M.R, Aghaei S.S, Zargar M, Shafiei M, Shahbani Zahiri H, Akbari Noghabi K.A bio-inspired strategy for the synthesis of zinc oxide nanoparticles (ZnO NPs) using the cell extract of *cyanobacterium Nostoc* sp. EA03: from biological function to toxicity evaluation}.9: 23508-23525. (2019)

17. Ghasemian A, Eslami M, Shafiei M, Najafipour S, Rajabi A. Probiotics and their increasing importance in human health and infection control. Reviews in Medical Microbiology. 29 (4), 153-158, (2018)

18. M Eslami, M Shafiei, A Ghasemian, S Valizadeh, AH Al-Marzoqi, ...*Mycobacterium avium paratuberculosis* and *Mycobacterium avium* complex and related subspecies as causative agents of zoonotic and occupational diseases. Journal of Cellular Physiology 234 (8), 12415-12421. (2019) (IF:5)

19. M Sedaghat, SD Siadat, E Mirabzadeh, M Keramati, F Vaziri, M Shafiei, ...Evaluation of antibody responses to outer membrane vesicles (OMVs) and killed whole cell of *Vibrio cholerae* O1 El Tor in immunized mice. Iranian journal of microbiology. 11 (3), 212. (2019)

20. Davaei far S, Akbari K, Zahiri HS,Modaresi MH, M. Shafiei... Evaluation of Antibacterial Activity of PHY-ZnONPs against Certain Multi-Drug Resistant (MDR) Bacteria. Journal of Applied Biological Sciences 12 (1), 13-17. (2018)

21. Mansouri M and Barzi S.M and Zafari M ,…, Shafiei M'*. *Electrosprayed cefazolin-loaded niosomes onto electrospun chitosan nanofibrous membrane for wound healing applications.* Journal of Biomedical Materials Research Part B: Applied Biomaterials.1–13. (2022). (IF:3.3)

22. Rezaei Z, Elikaei A, Barzi SM, Shafiei M. Isolation, characterization, and antibacterial activity of lytic bacteriophage against methicillin-resistant *Staphylococcus aureus* (MRSA) causing bedsore and diabetic wounds. *Iran J Microbiol*. 2022;14(5):712-720. doi: 10.18502/ijm.v14i5.10967. PMID: 36531807; PMCID: PMC9723423.

B) Books

1. Medical microbiology and infection at a glance
2.Basic medical microbiology
3.Bacterial diseases
4.All about Cystic fibrosis

C) Abstracts

1. Ghazanfari T, Honarmandian Sh, Abdi ali A, **Shafiei M,** Khajeh Kh. effect of *Pseudomonas aeruginosa* alginate with garlic extract on mice peritoneal macrophages proliferation, the 8th Iranian congress of immunology and allergy, Tehran, (2006).
2. **Shafiei M,** Abdi ali A, Honarmandian Sh, Ghazanfari T. The effect of *Pseudomonas aeruginosa* alginate and garlic extract on Nitric oxide (NO) production. the 8th Iranian congress of immunology and allergy, Tehran, **(2006).**
3. **Shafiei M,** Abdi ali A, Ghzanfari T, Falahi Z, Honarmandian Sh,Jamali D. The effect of *Pseudomonas aeruginosa* alginate and garlic extract on humoral immunity in BALB/c mice, 14th national and 2nd International conference of biology, Tarbiat modares university, Tehran, **(2006).**
4. Zare D, Akbarzadeh A, Mohajerani B, Norouzian D, Atyabi M,…, **Shafiei M**. Synthetic and characterization of copper nanoparticles and their complex with lysine and the antibody of PSA and their application in producing diagnostic prostate cancer kit, congress of nanotechnology in industrial applications, Dusseldorf (Germany), **(2007).**
5. Zare D, Akbarzadeh A, Mohajerani B, Norouzian D, Atyabi M,…, **Shafiei M.** Synthesis and characterization of silver nanoparticles and their complex with lysine and the antibody of PSA and their application in producing diagnostic prostate cancer kit, congress of nanotechnology in industrial applications, Dusseldorf (Germany), **(2007).**
6. Abdi ali A, **Shafiei M,** Ghzanfari T, Honarmandian Sh,…, Falahi Z .Effect of *P.aeruginosa* alginate and immunomodulator fraction of garlic, on production of antibody and opsonophagocytic killing, The 1st National Iranian conference on applied microbiology, Alzahra university, Tehran**,(2007).**
7. Nemati Z, Akbarzadeh A, Norouzian D, Farhangi A, Mehrabi M.R, **Shafiei M**,…, Mortazavi M, Mardaneh M. Study of desferal production by *Streptomyces griseoflavus*. The 1st National Iranian conference of applied microbiology, Alzahra university, Tehran **,(2007).**
8. Akbarzadeh A, Norouzian D, Farhangi A, Mehrabi MR, Atyabi M, …,**Shafiei M,** Chiani M, Anvari Y, Nikdel A, Khanbabaei S. Immunotherapy of morphine addicts by therapeutic morphine vaccine in Kerman province, The first International congress on health genomics and biotechnology, Tehran,**(2007)**
9. Akbarzadeh A, Norouzian D, Farhangi A, Mehrabi MR, **Shafiei M** ,Saffari Z,…,

Zamanlooei S. Mutation of *Streptomyces pilosus* 40714 to obtain high titer desferrioxamine producing fused cells of *Streptomyces pilosus*. The first International congress on health genomics and biotechnology, Tehran, **(2007)**

10. Shahcheraghi F, Nikbin V.S, Shooraj F, **Shafiei M.** Beta-lactamase and metallo-beta lactamase genes prevalence in multidrug resistance *P.aeruginosa* isolated from wound infections in 2 hospitals of Tehran. The second Iranian congress of clinical Microbiology ,Shiraz**, (2008)**

11. Shahcheraghi F, Nikbin V.S, Shooraj F, **Shafiei M.** Molecular characterization of Metallobeta-lactamase and ESBLs genes in multidrug resistant *P.aeruginosa* isolated from clinical specimens of Tehran, 11th Western Pacific congress on chemotherapy and infectious disease, Taiwan, **(2008)**