

## *Curriculum Vitae*

- Name** Fereshteh Eftekhar  
Associate Professor  
Microiology Department  
Faculty of Biological Science  
Shahid Beheshti Univer  
E mail: f-eftekhar@cc.sbu.ac.ir
- Education** **High school Diploma**, Marjan High School, Tehran, Iran.  
1968.
- BSc. Biology, National University of Iran. Tehran, Iran.**  
1968-72.
- MSc. Biology/Microbiology.** Wichita State University, Wichita, Kansas, USA. 1972-75. Masters Research Project: Transfection of bacterial and yeast spheroplasts with DNA from bacteriophage  $\phi$ X174.
- PhD.** Microbiology. University of British Columbia, Vancouver, BC. Canada. 1977-82. PhD. Research Project: Pathogenicity and treatment of urinary tract infections using a model of human bladder.
- Postdoctoral Fellowships** University of British Columbia. 1982-84. Non-opsonic phagocytosis of *Pseudomonas aeruginosa* isolates from cystic fibrosis patients by human polymorphonuclear cells.
- University of British Columbia. 1984-88. Molecular cloning of alginate lyase from *Pseudomonas aeruginosa* in *Escherichia coli*.  
University of British Columbia and University of Alberta, Canada.
- University of California, Riverside. 1989-91. Cloning and characterization of an Alginate lyase from *Pseudomonas aeruginosa*.
- Awards and Scholarships** Canada Council. PhD. Exchange student award. 1977-81.
- Canadian Lung Association. Post-doctoral fellowship award. 1984-85.
- Vancouver Foundation. Post-doctoral fellowship award. 1985-86.
- Job Experience** Part time laboratory technologist in clinical microbiology and virology. 1974-5. St. Francis Hospital, Wichita, Kansas. USA.

Research Assistant in microbiology and teaching two graduate laboratory courses (pathogenic microbiology and immunology), National University of Iran (SBU), 1975-7.

Laboratory teaching assistant. Instruction of virology and microbiology, undergraduate laboratories. 1978-82, University of British Columbia, Vancouver, BC, Canada.

**Academic Experience**

Shahid Beheshti University Iran, 1992-2019.

**Undergraduate Courses:** Microbiology 1, Microbiology 2, Bacteriology 1, Bacteriology 2, Microbial toxins and Scientific English, Shahid Beheshti University.

**Masters level courses:** Prokaryotic Genetics, Microbial Physiology, Microbial Toxins, Antimicrobial Resistance Mechanisms, Genetic Engineering, Scientific English for Microbiology, Botany, Zoology and Genetics graduate students. Shahid Beheshti, Tehran, Alzahra and Khatam Universities.

**PhD level courses:** Microbial genetics, Advanced Bacteriology, Microbial Membrane Structures, Host-Parasite Interactions, Shahid Beheshti University

**Invited Presentations**

June 14<sup>th</sup> 1986 Cystic Fibrosis Expo 86 Meeting. Vancouver, British Columbia. Cloning alginate lyase gene in *E. coli*.

October 9<sup>th</sup> 1986 British Columbia Society of Medical Technologists. DNA Probes.

January 19<sup>th</sup> 1989 UCLA-Harbor Medical School. Alginate-mediated phagocytosis of mucoid *Pseudomonas aeruginosa* by human macrophages.

**Research experience** Antimicrobial activity of native Iranian plants and determination of the biologically active components.

Characterization of *Pseudomonas aeruginosa* isolates from patients with cystic fibrosis, antibiotic resistance and genetic fingerprinting.

Beta-lactamase mediated resistance in Gram-negative urinary isolates and Gram-positive Staphylococci.

Determination of antibiotic resistance,  $\beta$ -lactamase production and genetic fingerprinting in clinical isolates of *Pseudomonas aeruginosa*, *Klebsiella pneumoniae* and *Acinetobacter baumannii*.

Cloning and characterization of an alkaline protease and a lipase from soil Bacilli.

**Research Grants**

Shahid Beheshti University Research Grant. 1993-97.  
Antimicrobial activity of extracts and essential oils from nativemedicinal Iranian plants.

Shahid Beheshti University Research Grant. 2001-2.  
Antimicrobial activity of two native Iranian plants and Identification of the biologically active components.

Budget and Programming Organization Research Grant. 2002-4. Given to Center for Genetic Research and Biotechnology for joint research with Shahid Beheshti University (Hosseini Mazinani and F. Eftekhar).  
Extended Spectrum Beta Lactamases from clinical isolates of *Enterobacteriaceae* in Iran.

Shahid Beheshti University Research Grant. 2005-2007.  
Cloning of alkaline protease from *Bacillus licheniformis* In *Escherichia coli*.

**Supervision of over 70 MSc. And nine PhD student these projects.**

## List of Publications (International)

- \*1. Anderson JD, **Eftekhari F**. Laboratory sensitivity or clinical efficiency. *Lancet* 1978; 1: 614.
- \*2. Anderson JD, **Eftekhari F**, Aird MY, Hammond J. The role of bacterial growth rates in the epidemiology and pathogenesis of urinary tract infections in women. *J. Clin. Microb.* 1979; 10:766-771.
- \*3. Anderson JD, **Eftekhari F**, Cleeland R, Kramer MJ, Beskid G. Comparative activity of mecillinam and ampicillin singly and in combination in the urinary bladder model and experimental mouse model. *J. Antimicrob. Chemother.* 1981; 8:121-131.
- \*4. Anderson JD, Aird MY, **Eftekhari F**, Morrison JB. An appraisal of disk sensitivity tests with mecillinam. *Chemother.* 1981; 27:106-113.
- \*5. Anderson JD, **Eftekhari F**. Study of the enhancement of beta-lactam activity by amidinopenicillin in a model of human urinary bladder. *Am. J. Med.*; Aug 29<sup>th</sup>, 1983: 42-47.
6. Speert DP, **Eftekhari F**, Putterman M. Non-opsonic phagocytosis of *Pseudomonas aeruginosa* strains from cystic fibrosis. *Inf. Imm.* 1984; 43:1006-1011.
7. Speert DP, Loh BA, Cabral DP, **Eftekhari F**. Opsonin independent phagocytosis of *Pseudomonas aeruginosa*. *Antibiotics and Chemotherapy*. DP. Speert and REW. Hancock (eds). Pub. Krager and Basel. 1985; 36:88-94.
8. **Eftekhari F**, Speert DP. Alginase treatment of mucoid *Pseudomonas aeruginosa* enhances phagocytosis by human monocyte derived macrophages. *Infect Immun* 1988; 56(11):2788-2793.
9. Pasloske BL, Joffe AM, Sun Q, Volpel K, Paranchych W, **Eftekhari F**, Speert DP. Serial isolates of *Pseudomonas aeruginosa* from a cystic fibrosis patient have identical pillin sequences. *Infect Immun* 1988; 56(3):665-672.
10. Bayer AS, **Eftekhari F**, Tu J, Nast CC, Speert DP. Oxygen dependent up-regulation of mucoid exopolysaccharide (alginate) production in *Pseudomonas aeruginosa*. *Infect Immun* 1990; 58(5):1344-1349.
11. Bayer AS, Park S, Ramo, MC, **Eftekhari F**, Schiller NL. Effects of alginase on the natural history and antibiotic therapy of experimental endocarditis caused by mucoid *Pseudomonas aeruginosa*. *Infect Immun* 1992; 60(10):3979-3985.
12. **Eftekhari F**, Schiller NL. Partial purification and characterization of mannuronan specific alginate lyase from *Pseudomonas aeruginosa*. *Cur Microbiol* 1994; 29: 37-42.
13. Habibi Z, **Eftekhari F**, Samiee K, Roostaiyan A. Structure and antibacterial activity of a new labdane diterpenoid from *Salvia leriifolia*. *J. Nat Prod* 2000; 63:270-271.

14. Nariman F, **Eftekhar F**, Habibi Z, Falsafi-Khoramian T. Antimicrobial activity of *Xanthium brasiliicum* extract against *Helicobacter pylori*. *Helicobacter* 2004;9(2):146-151.
15. **Eftekhar F**, Yousefzadi M, Borhani K. Antimicrobial activity of *Ferulla gummosa* seed oil. *Fitoterapia* 2004; 75:758-759.
16. **Eftekhar F**, Yousefzadi M, Tafakori V. Antimicrobial activity of *Datura innoxia* and *Datura stromonium*. *Fitoterapia* 2005; 76:118-120.
17. Sonboli A, **Eftekhar F**, Yousefzadi M, Kanani R. Antimicrobial activity and chemical composition of the essential oil of *Grammosciadium platycarpum* Boiss. from Iran. *Z. Naturforsch.* 2005; 60c: 30-34.
18. **Eftekhar F**, Yousefzadi M, Azizian D, Sonboli A, Salehi P. Essential oil composition and antimicrobial activity of *Diplotaenia damavandica*. *Z. Naturforsch.* 2005; 60c: 821-825.
19. **Eftekhar F**, Rafiee R. An overlay gel method for identification and isolation of bacterial  $\beta$ -lactamases. *J. Microbiol Meth* 2006; 64:132-134.
20. Dadras S, Mohajerani E, **Eftekhar F**, Hosseini M. Different photo-responses of *Staphylococcus aureus* and *Pseudomonas aeruginosa* to 514, 532 and 633 nm low level lasers in vitro. *Cur Microbiol* 2006; 53: 282-286.
21. Nariman F, Massarrat S, Habibi Z, **Eftekhar F**, Siavoshi F, Malekzadeh R. Anti-*Helicobacter pylori* activities of 20 Iranian Plants. *Helicobacter* 2006; 11(4): 323-324.
22. Ghaemi Oskouie SF, Tabandeh F, Yakhchali B, **Eftekhar F**. Response surface optimization of medium composition for alkaline protease production by *Bacillus clausii*. *Biochem Engin J* 2008; 39: 37-42.
23. Ghaemi Oskouie SF, Tabandeh F, Yakhchali B, **Eftekhar F**. Enhancement of alkaline protease production by *Bacillus clausii* using Taguchi experimental design. *African J Biotech* 2007; 6 (22): 2559-2564.
24. Morabbi Heravi K, **Eftekhar F**, Yakhchali B, Tabandeh F. Isolation and identification of a lipase producing *Bacillus* sp. from soil. *Pakistan J Biol Sci* 2008; 11(5): 740-745.
25. Salehi P, Sonboli A, Dayeni M, **Eftekhar F**, Yousefzadi M. Chemical composition of essential oils of *Salvia limbata* from two different regions in Iran and their biological activity. *Chem Nat Comp* 2008; 44(1): 102-105.
26. **Eftekhar F**, Raei F, Yousefzadi M, Nejad Ebrahimi S, Hadian J. Antibacterial activity and essential oil composition of *Satureja spicigera* from Iran *Z. Naturforsch.* 2009, 64c, 20-24.
27. **Eftekhar F**, Speert DP. Biofilm formation by persistent and non-persistent isolates of *Staphylococcus epidermidis* from a neonatal intensive care unit. *J. Hosp Infect* 2008, 71: 112-116.

28. **Eftekhar F**, Nariman F, Yousefzadi M, Nejad Ebrahimi S, Hadian J. Anti-*Helicobacter pylori* activity and essential oil composition of *Thymus caramanicus* from Iran. *Nat Prod Com* 2009; 4(8): 1139-1142.
29. **Eftekhar F**, Mirmohammadi Z. Evaluation of biofilm production by *Staphylococcus epidermidis* isolates from nosocomial infections and skin of healthy individuals. *Int J Med Med Sci* 2009; 1(10):438-441.
30. Habibi Z, Yousefi M, Mohammadi M, **Eftekhar F**, Biniiaz T, Roostaian A. Chemical composition and antibacterial activity of the volatile oils from *Artemisia turcomanica*. *Chem Nat Comp* 2010; 46(5): 819-821.
31. Isazadeh H, **Eftekhar F**, Yousefzadi M, Hadian J, Nejad-Ebrahimi S. Chemical Composition and Antibacterial Activity of *Zataria multiflora* Essential Oil. *J Essen Oil Bearing Plants* 2012; 15(3): 461-466.
32. Ashayeripناه M, **Eftekhar F**, Feizabadi MM. Development of an optimized random amplified polymorphic DNA protocol for fingerprinting of *Klebsiella pneumoniae*. *Lett Appl Microbiol* 2012; 54:272-279.
33. Raei F, Ashoori N, **Eftekhar F**, Youesfzadi M. Chemical composition and antibacterial activity of *Teucrium polium* essential oil against urinary isolates of *Klebsiella pneumoniae*. *J Ess Oil Res* 2013; 25(1): 1-5.
34. Ashayeripناه M, **Eftekhar F**, Mobarak-Ghamsari, Mahmood P, Feizabadi MM Genetic profiling of *Klebsiella pneumoniae* comparison of pulsed field gel electrophoresis and random amplified polymorphic DNA. *Brazil J Microbiol* 2013; 44(3); 1-5.
35. Salimi F, **Eftekhar F**. Prevalence of blaIMP and blaVIM gene carriage in metallo-beta-lactamase- producing burn isolates of *Pseudomonas aeruginosa* in Tehran. *Turk J Med Sci* 2014; 3(44): 1-4.
36. Mobarak-Ghamsari M, Ashayeripناه M, **Eftekhar F**, Feizabadi MM. Integron mediated multidrug resistance in extended spectrum beta-lactamase producing clinical isolates of *Klebsiella pneumoniae*. *Brazil J Microbiol* 2014; 44(3): 849-854.
37. Nouri P, **Eftekhar F**. Correlation of RAPD-PCR profiles with ESBL production in clinical isolates of *Klebsiella pneumoniae* in Tehran. *J Clin Diag Res* 2015; 9(1): DC01-DC03.
38. Moazami-Goudarzi S, **Eftekhar F**. Multidrug resistance and integron carriage in clinical isolates of *Pseudomonas aeruginosa* in Tehran Iran. *Turk J Med Sci* 2015; 4(45): 789-793.
39. Kordbacheh H, **Eftekhar F**, Nejad Ebrahimi S. Anti-quorum sensing activity of *Pistacia atlantica* against *Pseudomonas aeruginosa* PAO1 and identification of its bioactive compounds. *Microb Path* 2017; 110: 390-398.

40. Khodaei H, **Eftekhar F**. Detection of kpc-type Carbapenemases in Clinical Isolates of *Acinetobacter baumannii*. J Krishna Institute Med Sci Univ 2017; 6(4): 64-70.
41. Choori M, **Eftekhar F**, Saniee P. Distribution of Plasmid-Mediated Quinolone Resistance, Integrons and AdeABC Efflux Pump Genes in Nosocomial Isolates of *Acinetobacter baumannii*. J Krishna Institute Med Sci Univ 2019; 8(1): 22-30.

- **Publications 1-5 are from PhD. Thesis.**

### **List of publications (Iranian Journals)**

1. Bet-Issue R, **Eftekhar F**, Mohraz M. Studying antibiotic resistance in clinical isolates of *Streptococcus pneumoniae*. Iran J. Infect Dis Trop Med 1999; 3(9):19-28.
2. Azizian D, **Eftekhar F**. Comparison of fruit morphology, anatomy and antimicrobial activity of *Trachyspermum copticum*, *Ammi majus*, and *Ammi visnaga*. Pajouhesh-va-Sazandegi, Iran.2001; 14(50):66-9.
3. **Eftekhar F**, Lale-Monfared A, Azizian D. Antibacterial activity of Sumac (*Rhus coriaria* L.) extracts.Pajouhesh-va-Sazandegi, Iran 2001; 14(52):92-4.
4. Khadem-Haghighat F, **Eftekhar F**, Mazaheri M. Isolation of a Dibenzothiophene desulfurizing bacterium from soil of Tabriz oil refinery. Iran J. Biotechnol 2003; 1(2):121-4.
5. **Eftekhar F**, Rostamizadeh F, Khodadad A, Henry D, Speert DP. Genetic fingerprinting of *Pseudomonas aeruginosa* isolates from Iranian patients with cystic fibrosis using RAPD-PCR. Iran J. Biotechnol 2003; 1(2):95-100.
6. **Eftekhar F**, Rostamizadeh F, Khodadad A. Isolation and characterization of *Pseudomonas aeruginosa* from Iranian patients with cystic fibrosis. Iran J Infect Dis Trop Med 2003; 20:7-14.
7. **Eftekhar F**, Fouladi J, Faghihi M. Isolation of an alkaline protease producing *Bacillus sp.* from soil. Iran J Biotechnol 2003; 1(3):183-185.
8. Danesh-Monfared S, **Eftekhar F**. Evaluation of beta-lactam resistance in staphylococci using penicillin and oxacillin disks. Iran J Infect Dis Trop Med 2004; 23:1-7.
9. **Eftekhar F**, Hosseini-Mazinani SM, Ghandili S, Hamraz M, Zamani S. PCR detection of plasmid mediated TEM, SHV and AmpC  $\beta$ -lactamases in community and nosocomial urinary isolates of *Escherichia coli*. Iran J Biotechnol 2005; 3(1):48-54.
10. Samee K, **Eftekhar F**, Vojoudzadeh H, Roostaiyan A. Antibacterial effects of Persian Gulf *Scomberomorus commerson* liver oil. Veterinary J, Tehran University 2006; 61(3):227-230.

11. Hosseini-Mazinani SM, **Eftekhar F**, Milani M, Ghandili S. Characterization of  $\beta$ -lactamases from urinary isolates of *Escherichia coli*. Iran J Biochem 2007; 11(2): 95-99.
12. **Eftekhar F**, Nariman F, Habibi Z, Mohammadi N. Antibacterial activity of aerial extracts from *Xanthium brasiliicum*. Iran J Pharmaceut Res 2007; 6(1):65-68.
13. **Eftekhar F**, Raei F. Presence of *blaZ* gene and  $\beta$ -lactamase production in clinical isolates of *Staphylococcus epidermidis*. Iran J Clin Microbiol 2008; 2(2): 35-41.
14. Nariman F, **Eftekhar F**, Habibi Z, Massarrat S, Malekzadeh R. Antibacterial activity of twenty Iranian Plant Extracts against clinical isolates of *Helicobacter pylori*. Iran J Basic Med Sci 2009; 12(2): 105-111.
15. **Eftekhar F**, Hosseinkhan N, Asgharzadeh A, Tabatabaai A. Genetic profiling of *Pseudomonas aeruginosa* isolates from Iranian patients with cystic fibrosis using RAPD-PCR and PFGE. Iran J Basic Med Sci 2009; 12(3-4):126-132.
16. Morrabai-Heravi K, Yakhchali B, **Eftekhar F**, Vafadar-Isfahani B, Habib Ghomi H, Ahmadi-Danesh H. Molecular cloning and characterization of a lipase from an indigenous *Bacillus pumilus*. J Sci. Islamic Republic of Iran 2009; 20(3):213-220.
17. Borhani K, **Eftekhar F**, Danesh Monfared S.  $\beta$ -lactamase typing by substrate hydrolysis in clinical isolates of methicillin resistant *Staphylococcus aureus*. Iran J Clin Infect Dis 2009; 4(4):202-206.
18. Raei F, **Eftekhar F**. Comparison of methicillin resistant phenotype and *mecA* gene carriage in clinical isolates of *Staphylococcus epidermidis*. Iran J Biol 2010; 23(1):108-114.
19. **Eftekhar F**, Zamani S, Yousefzadi M, Nejad Ebrahimi S, Hadian J. Antibacterial activity of *Zataria multiflora* Boiss essential oil against extended spectrum  $\beta$  lactamase produced by urinary isolates of *Klebsiella pneumoniae*. Jundishapur J Microbiol. 2011; 4(Suppl 1): S43-S49.
20. **Eftekhar F**, Dadaei T. Biofilm formation and detection of *icaAB* genes in clinical isolates of methicillin resistant *Staphylococcus aureus*. Iran J Basic Med Sci 2011; 4(2): 161-169.
21. Raei F, **Eftekhar F**. Correlation of minimum inhibitory concentration breakpoints and *mecA* gene carriage in clinical isolates of *Staphylococcus epidermidis*. Iran J Med Sci 2011; 36(3): 213-216.
22. Seied-Abbasi M, **Eftekhar F**, Yakhchali B. Cloning and enhanced expression of an extracellular alkaline protease from a soil isolate of *Bacillus clausii* in *Bacillus subtilis*. Iran J Biotechnol 2011; 9(4): 275-280.
23. **Eftekhar F**, Rastegar M, Golalipoor M, Mansoursamaei N. Detection of extended spectrum  $\beta$ -lactamases in urinary isolates of *Klebsiella pneumoniae* in



- relation to *bla<sub>SHV</sub>*, *bla<sub>TEM</sub>* and *bla<sub>CTX-M</sub>* gene carriage. Iran J Pub Health 2012; 4(3):127-132.
24. Salimi F, **Eftekhar F**. Coexistence of AmpC and extended-spectrum  $\beta$ -lactamases in metallo  $\beta$ -lactamase producing *Pseudomonas aeruginosa* burn isolates in Tehran. Jundishapur J Microbiol 2013; 6(8): e7178
  25. Moazami-Goudarzi S, **Eftekhar F**. Assessment of carbapenem susceptibility and multidrug-resistance in *Pseudomonas aeruginosa* burn isolates in Tehran. Jundishapur J Microbiol 2013; 6(2):162-165.
  26. Seyedpour SM, **Eftekhar F**. Quinolone susceptibility and detection of *qnr* and *aac(6')-Ib-cr* genes in community isolates of *Klebsiella pneumoniae*. Jundishapur J Microbiol 2014; 7(7): e11136.
  27. Raei F, **Eftekhar F**, Feizabadi MM. Prevalence of Quinolone resistance among extended-spectrum  $\beta$ -lactamase producing uropathogenic *Klebsiella pneumoniae*. Jundishapur J Microbiol 2014; 7(6): e10887.
  28. Rafiee R, **Eftekhar F**, Tabatabaei SA, Minaei Tehrani D. Prevalence of extended-spectrum and metallo  $\beta$ -lactamase production in AmpC  $\beta$ -lactamase producing *Pseudomonas aeruginosa* isolates from burns. J Microbiol 2014; 7(9): e16436.
  29. Abbaszadeh A, Safari N, Amani V, Notash B, Raei F, **Eftekhar F**. Mononuclear and dinuclear copper(II) complexes containing N, O and S donor ligands: synthesis, characterization, crystal structure determination and antimicrobial activity of [Cu(phen)(tda)].2H<sub>2</sub>O and [(phen)<sub>2</sub>Cu( $\mu$ -tda)Cu(phen)](ClO<sub>4</sub>).2.1.5H<sub>2</sub>O. Iran J Chem Chem Engin 2014; 33(4): 1-13.
  30. Ashayeri-panah M, **Eftekhar F**, Feizabadi MM. Correlation of multi-drug resistance, integron and *bla*ESBL gene carriage with genetic fingerprints of extended-spectrum  $\beta$ -lactamase producing *Klebsiella pneumoniae*. Jundishapur J Microbiol. 2014; 7(2): e8747.
  31. Rafiee R, **Eftekhar F**, Tabatabaei SA, Minaee Tehrani D. Prevalence of extended-spectrum and metallo  $\beta$ -lactamase production in AmpC  $\beta$ -lactamase producing *Pseudomonas aeruginosa* isolates from burns. Jundishapur J Microbiol 2014; 7(9): e16436.
  32. Hedayati S, **Eftekhar F**, Hosseini SM. Biofilm formation by bacteria isolated from intravenous catheters. J Med Bacteriol 2014; 3(3-4):26-31.
  33. Heydari S, **Eftekhar F**. Biofilm formation and  $\beta$ -lactamase production in burn isolates of *Pseudomonas aeruginosa*. Jundishapur J Microbiol 2015; 8(3): e15514.
  34. **Eftekhar F**, Naseh Z. Extended-spectrum  $\beta$ -lactamase and carbapenemase production among burn and non-burn clinical isolates of *Klebsiella pneumoniae*. Iran J Microbiol 2015; 7(3):144-149.

35. Ghareboghly Sarmad, **Eftekhar F**. Prevalence of carbapenem resistance in *Acinetobacter baumannii* isolates from burn and non-burn patients in Tehran. *J Med Bacteriol* 2015; 4(3-4):28-32.
36. Emami S, **Eftekhar F**. The correlation between biofilm formation and drug resistance in nosocomial isolates of *Acinetobacter baumannii*. *Avicenna J Clin Microbiol Infect* 2015; 2(2): e23954.
37. Zanganeh Z, **Eftekhar F**. Correlation of oxacillinase gene carriage with the genetic fingerprints of imipenem-resistant clinical isolates of *Acinetobacter baumannii*. *Jundishapur J Microbiol* 2015; 8(9): e26545.
38. **Eftekhar F**, Seyedpour SM. Prevalence of *qnr* and *aac(6')-Ib-cr* genes in clinical isolates of *Klebsiella pneumoniae* from Imam Hussein hospital in Tehran. *Iran J Med Sci* 2015; 40(6):515-521.
39. Rafiee R, **Eftekhar F**, Tabatabaei SA, Minaee Tehrani D. Detection of Ampc and extended-spectrum beta-lactamases in clinical isolates of *Pseudomonas aeruginosa* from patients with cystic fibrosis. *Med Lab J* 2016; 10(3):28-32.
40. **Eftekhar F**, Rezaee R, Azad M, Azimi H, Goudarzi H, Goudarzi M. Distribution of adhesion and toxin genes in *Staphylococcus aureus* strains recovered from hospitalized patients admitted to the ICU. *Arch Ped Infect Dis*. 2016; 1(5):1-8. e39349.
41. Ashayeripناه M, **Eftekhar F**, Kazemi B, Joseph J. Cloning, optimization of induction conditions and purification of *Mycobacterium tuberculosis* Rv1733c protein expressed in *Escherichia coli*. *Iran J Microbiol* 2017; 2(9): 64-73.
44. Rafiee R, **Eftekhar F**, Tabatabaei SA. Extended-spectrum beta-lactamases in cystic fibrosis isolates of *Klebsiella pneumoniae*. *Jundishapur J Microbiol* 2018; 11(1): 1-6.
43. **Eftekhar F**, Ashoori N, Yousefzadi M. In-vitro antimicrobial activity and chemical composition of *Satureja khuzestanica* Jamzad. Essential oils against multidrug-resistant *Acinetobacter baumannii*. *Avicenna J Clin Microbiol Infect* 2017; 2(4):1-5.
45. **Eftekhar F**, Altayar F, Khodaei H. Plasmid-mediated class 1 and 2 integron carriage in drug-resistant nosocomial isolates of *Acinetobacter baumannii*. *Arch Clin Infect Dis* 2018; 13(1): 1-5.
46. Tavakolian A, **Eftekhar F**, Siavoshi F. *Candida albicans* release intracellular bacteria when treated with amphotericin B. *Arch Iran Med* 2018; 21(5): 191-198.
47. Kazemi B, Ashayeripناه M, Feizabadi MM, **Eftekhar F**. Bioinformatics analysis of Rv1733c protein from *Mycobacterium tuberculosis* as a vaccine candidate cloning and expression in *Escherichia coli*.

48. Esmaeilee Totkanpoory N, Eftekhar F. Contribution of contaminated environmental surfaces to the transmission of multidrug-resistant *Acinetobacter baumannii* in special care units of a hospital in Tehran, Iran. *J Med Microbiol Infect Dis* 2018; 6(2-3): 37-42.
49. Soleymani Sassani M, **Eftekhar F**, Hosseini SM. Isolation and characterization of a *Klebsiella pneumoniae* specific lytic bacteriophage from a hospital wastewater treatment plant. Accepted for publication in *J Med Microbiol Infect Dis (JoMMID)* 2019.
50. Malekjamshidi MR, Zandi H, **Eftekhar F**. Correlation of quinolone-resistance, qnr genes and integron carriage in multidrug-resistant community isolates of *Klebsiella spp.* Accepted for publication in *Iran J Basic Med Sci (IJBMS)* 2019.

### Abstracts (International):

1. Anderson JD, **Eftekhar F**, Aird MY Hammond J. The role of bacterial growth rates in the pathogenesis of urinary tract infections. *Proc. Path. Soc. Med. Microbiology* 1979; 12: pviii,
2. Anderson JD, **Eftekhar F** Johnson KR. Demonstration of antibiotic synergy in a model of human urinary bladder. *Proc. Meeting. Can. Assoc. Med. Microbiologists. Can. J. Public Health* 1979; 70:52.
3. Anderson JD, **Eftekhar F**, Loh BA Liang WK. The role of urinary oxygen tensions in the pathogenesis of urinary infections. *Proc. Path. Soc. J. Med. Microbiol* 1980; 13: pv-pvi.
4. Anderson JD, **Eftekhar F**, Cleeland R, Kramer MJ Beskid G. Comparison of the synergistic action of ampicillin and mecillinam in three experimental systems. *Proc. Can. Assoc. Med. Microbiologists. Can. J. Public Health* 1981; 72:1.
5. Quon D, **Eftekhar F**, Bowie WR, Speert DP Stiver HG. Human polymorphonuclear leukocyte response to challenge with *Chlamydia trachomatis* as measured by chemiluminescence. *The Am. Fed. Clin. Res. Western Section. Feb.* 1983.
6. Speert DP **Eftekhar F**. Mannose inhibitable phagocytosis of *Pseudomonas aeruginosa* from cystic fibrosis patients. *Ped. Res.* 1983; 1093.
7. Speert DP, **Eftekhar F**. Non-opsonic phagocytosis of *Pseudomonas aeruginosa* strains from cystic fibrosis patients. 23<sup>rd</sup> Interscience. *Antimicrob. Agents and Chemother* 1983; 63.
8. **Eftekhar F**, Paraynych W Speert, DP. Cloning alginate lyase gene from *Bacillus circulans* in *Escherichia coli*. *Am. Soc. Microbiol.* 1987; B258.
9. **Eftekhar F**, Speert DP. Alginate treatment of mucoid *Pseudomonas aeruginosa* enhances phagocytosis by human macrophages 1987.

10. Speert DP, **Eftekhar F**, Campbell ME, Farmer SW, Volpel K, Paranchych W. Molecular epidemiological investigation of *Pseudomonas aeruginosa* from patients with cystic fibrosis. UA-UC Conference on Infectious Diseases Panorama, BC. Canada 1988;15.
11. Speert DP, **Eftekhar F**, Campbell ME, Farmer SW Volpel K, Paranchych W. 1988. Molecular investigation of *Pseudomonas aeruginosa* strains from patients with cystic fibrosis. Clin. Invest. Med. C-440.
12. Bayer AS, **Eftekhar F**, Speert DP, Nast CC. Oxygen dependent enhancement of Pseudomonal alginase production in endocarditis. The 29<sup>th</sup> Interscience Conference on Antimicrobial Agents and Chemotherapy 1989, Houston, Tx.
13. **Eftekhar F**, Schiller NL. Partial characterization of an alginase produced by *Pseudomonas aeruginosa*. ASM Annual Meeting. 1991, Dallas, Tx.
14. Nariman F, **Eftekhar F**, Habibi Z, Falsafi T. Anti-*Helicobacter pylori* activity of six Iranian plants. The 15<sup>th</sup> International Congress of *Helicobacter pylori* 2002, Athens, Greece.
15. **Eftekhar F**, Danesh Monfared S. Determination of resistance to Beta lactams by measuring penicillin and oxacillin susceptibility in methicillin resistant staphylococci. The 15<sup>th</sup> IFCC-FESCC European Congress of Clinical Chemistry and Laboratory Medicine 2003, Barcelona, Spain.
16. **Eftekhar F**, Rostamizadeh F, Khodadad A, Henry D, Speert DP. Genetic fingerprinting of *Pseudomonas aeruginosa* from Iranian patients with cystic fibrosis. The 15<sup>th</sup> IFCC-FESCC European Congress of Clinical Chemistry and Laboratory Medicine 2003, Barcelona, Spain.
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