

Curriculum vitae (C.V.)

Personal Data

First name and Surname: Fatemeh Yeganeh-Sefidan

Nationality and Birthplace: Iranian, Tabriz

Gender: Female

Degree: Ph.D, Medical Bacteriology

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Education

B.Sc	Tabriz University	Biology
M.Sc	Tabriz University of Medical Sciences	Medical Microbiology
Ph.D	Tabriz University of Medical Sciences	Medical Bacteriology

Dissertation

M.Sc: Isolation of *Legionella pneumophila* in hospitals water supply by Culture and PCR, Tabriz, Iran. **(Score: 20)**

Ph.D: Investigation of aminoglycoside modifying enzymes and 16S rRNA methylase from clinical isolates *Enterobacteriaceae* from Tabriz and Uromia at 1394 year. **(Score: 20)**

Full papers

1. Ghotaslou R, Farajnia S, **Yeganeh F**, Abdoli-Oskouei S, Rezaee MA, Barzegar M. Detection of acute childhood meningitis by PCR, culture and agglutination tests in Tabriz, Iran. *Acta Medica Iranica*. 2012; 50(3): 192-6.
2. Ghotaslou R, **Sefidan FY**, Akhi MT, Soroush MH, Hejazi MS. Detection of legionella contamination in tabriz hospitals by PCR assay. *Advanced pharmaceutical bulletin*. 2013; 3(1): 131-4. **[Corresponding Author]**
3. Reza Ghotaslou, Behnaz Salahi Eshlaghi, **Fatemeh Yeganeh**, Alireza Yaghoubi. Molecular Diagnosis of Bacterial Infective Endocarditis in Tabriz,Azerbaijan. *J Cardiovasc Thorac Res*, 2013; 5(4): 153-155.
4. **Yeganeh Sefidan F**, Ghotaslou R, Akhi MT, Soroush MH. Detection of Legionella in Hospitals Water Systems. *Medical Journal of Tabriz University of Medical Sciences*. 2013; 34 (6): 34-7. **[In Persian]**
5. Ghotaslou R, **Yeganeh-Sefidan F**, Salahi-Eshlaqi B, Ebrahimzadeh-Leylabadlo H. Etiology of acute bacterial meningitis in Iran: A systematic review. *Acta Medica Iranica*. 2015; 53(8): 454-61.
6. Akhi MT, Asl SB, Pirzadeh T, Naghili B, **Yeganeh F**, Memar Y, Mohammadzadeh Y. Antibiotic Sensitivity of Clostridium perfringens Isolated From Faeces in Tabriz, Iran. *Jundishapur journal of microbiology*. 2015; 8(7): 1-4.

7. **Sefidan FY**, Azargun R, Ghotaslou R. Fosfomycin, a therapeutic option for infections produced by multiple drug-resistant Enterobacteriaceae. Microbiology Research. 2016; 7(1): 32-6.
8. **Yeganeh-Sefidan F**, Ghotaslou R, Akhi MT, Sadeghi MR, Mohammadzadeh-Asl Y, Baghi HB. Fosfomycin, interesting alternative drug for treatment of urinary tract infections created by multiple drug resistant and extended spectrum β -lactamase producing strains. Iranian journal of microbiology. 2016; 8(2): 125-131.
9. Tayebi-Khosroshahi H, Habibzadeh A, Niknafs B, Ghotaslou R, **Sefidan FY**, Ghojazadeh M, Moghaddaszadeh M, Parkhide S. The effect of lactulose supplementation on fecal microflora of patients with chronic kidney disease; a randomized clinical trial. Journal of renal injury prevention. 2016; 5(3): 162-7.
10. Ghotaslou R, **Yeganeh Sefidan F**, Akhi MT, Asgharzadeh M, Mohammadzadeh Asl Y. Dissemination of Genes Encoding Aminoglycoside-Modifying Enzymes and armA Among Enterobacteriaceae Isolates in Northwest Iran. Microbial Drug Resistance. 2017; 23(7): 826-32. **[Corresponding Author]**
11. Ghorbani H, Memar MY, **Sefidan FY**, Yekani M, Ghotaslou R. In vitro synergy of antibiotic combinations against planktonic and biofilm *Pseudomonas aeruginosa*. GMS hygiene and infection control. 2017; 12: 1-7.
12. **Yeganeh Sefidan F**, Yekani M, Bannazadeh Baghi H, Memar MY, Yousefi L, Alizadeh N, Mohammadzadeh A, Aghazadeh M. Frequency and Antibiotic Susceptibility Pattern of

- Methicillin Resistant *Staphylococcus aureus* from Nasal Carriage of Hospitalized Cardiovascular Patients. AJP. 2018.
13. Asl YM, Akhi MT, Soroush MH, **Sefidan FY**, Mousapour J, Hejazi ME, Sabbaghi BG, Sharifi A, Jabari Y, Ghotaslou R. Clinical Manifestations and Seasonality of Pertussis in Azerbaijan, Iran. Infectious Diseases in Clinical Practice. 2018; 26(3): 145-9.
 14. Azargun R, Sadeghi MR, Barhaghi MH, Kafil HS, **Yeganeh F**, Oskoe MA, Ghotaslou R. The prevalence of plasmid-mediated quinolone resistance and ESBL-production in Enterobacteriaceae isolated from urinary tract infections. Infection and Drug Resistance. 2018; 11: 1007-14.
 15. Yekani M, Memar MY, Baghi HB, **Sefidan FY**, Alizadeh N, Ghotaslou R. Association of integrons with multidrug-resistant isolates among phylogenic groups of uropathogenic Escherichia coli. Microbiology Research. 2018; 9(1): 1-10.
 16. Yekani M, Baghi HB, **Sefidan FY**, Azargun R, Memar MY, Ghotaslou R. The rates of quinolone, trimethoprim/sulfamethoxazole and aminoglycoside resistance among Enterobacteriaceae isolated from urinary tract infections in Azerbaijan, Iran. GMS Hygiene and Infection Control. 2018; 13: ISSN 2196-5226.
 17. **Yeganeh Sefidan F**, Mohammadzadeh Asl Y, Ghotaslou R. High-Level Resistance to Aminoglycosides due to 16S rRNA Methylation in Enterobacteriaceae Isolates. Microbial Drug Resistance. 2019.

18. Lalehzadeh A, Soroush MH, Sadeghi J, Ahangarzadeh Rezaee M, Pirzadeh T, **Yeganeh Sefidan F**, Memar MY, Sheykhsaran E, Ghotaslou R. Determination of fosfomycin resistant Enterobacteriaceae in isolates and frequency of fos genes in Tabriz Hospitals during 2018. J Biochem Tech. 2019; 2: 143-8.
19. Alizadeh N, Ahangarzadeh Rezaee M, Samadi Kafil H, Hasani A, Soroush Barhaghi MH, Milani M, **Yeganeh Sefidan F**, Memar MY, Lalehzadeh A, Ghotaslou R. Evaluation of Resistance Mechanisms in Carbapenem-Resistant Enterobacteriaceae. Infect Drug Resist. 2020; 13: 1377–85.
20. Abad HE, Sadeghi J, Aghazadeh M, Rezaee MA, Samadi H, Ahangar Oskouee M, Laghousi D, **Yeganeh Sefidan F**, Lalehzadeh L and Sheykhsaran E. Frequency of *fnbA*, *fnbB*, *hla* and *cna* genes in *Staphylococcus aureus* isolates obtained from blood cultures and their antimicrobial susceptibility pattern in Tabriz, Iran. Archives of Pharmacy Practice. 2020; 1:137.
21. Sharabiani HR, Sadeghi J, Pirzade T, Rezaee MA, Ghotaslou R, Laghousi D, **Sefidan FY**, Kafil HS, Nikbakht M, Mazraeh FN, Hematyar Y. Comparison of superantigens and attachment factors genes of *Staphylococcus aureus* in clinical isolates and nasal colonizers in the same patients. Microbial pathogenesis. 2021;154:104860.
22. Mazraeh FN, Hasani A, Sadeghi J, Kafil HS, Barhaghi MH, **Sefidan FY**, Sharabiani HR, Hematyar Y, Rezaee MA. High frequency of blaPER-1 gene in clinical strains of *Acinetobacter baumannii* and its association with quorum sensing and virulence factors. Gene Reports. 2021; 1:24:101232.

23. Taghavi Zonouz A, Abdoli Oskouie Y, Ahangarzadeh Rezaei M , **Yeganeh Sefidan F** , Abdoli Oskouie SH. Nasal Carriage of *Staphylococcus aureus* in Preclinical and Clinical Dental Students of Tabriz University of Medical Sciences and Identification of Methicillin-Resistant Isolates in 2019. Crescent Journal of Medical and Biological Sciences. 2021; 8(2): 30-234.
24. Esmaeilzadeh M, Divband B, **Sefidan FY**, Gholami M, Kachoei M. Effect of adding zinc oxide nanoparticles supported in 4A zeolite on antibacterial properties and flexural strength of self-curing acrylic resin used in removable orthodontic appliances. Med J Tabriz Uni Med Sciences. 2021;43:2.

Abstracts Presented in Congress

1. **Yeganeh Sefidan F**, Hajizadeh M, Soroush MH, Safayean F, Mir Karimi SF, Tabatabaei Z and Asghari B. Determination of antibiotic resistance in Gram-negative bacilli isolated from respiratory secretions of hospitalized patients in Emam Reza hospital, Tabriz, The First Iranian International Congress of Medical Bacteriology, Tabriz, Iran, 5-8 September 2011.
2. **Yeganeh Sefidan F**, Ghotaslou R, Ahangarzadeh Rezaee M and Mohammadzadeh-Asl Y. Tow most important mechanisms of resistance to aminoglycosides among *Enterobacteriaceae* isolates, 5th Iranian International Congress of Medical Bacteriology, Maragheh, Iran, 15-17 August 2018.
3. Mohammadzadeh-Asl Y, Ghotaslou R, Soroush MH and **Yeganeh Sefidan F**. Prevalence, clinical manifestations and seasonality of pertussis in Tabriz, Iran, 5th Iranian International Congress of Medical Bacteriology, Maragheh, Iran, 15-17 August 2018.

Partnership in Congress

1. The First Iranian International Congress of Medical Bacteriology, Tabriz, Iran, September 5-8, 2011.
2. The Fifth Iranian International Congress of Medical Bacteriology, Maragheh, Iran, 15-17 August 2018.
3. The 4th International & 9th National Congress on Quality Improvement in Clinical Laboratories, Tehran, Iran, April 20-23, 2011.
4. Seminar on Immunology; Diagnosis and Treatment of Allergic Diseases, Tabriz, Iran, April 28-29, 2011.
5. 19th Iranian Congress on Infectious Diseases and Tropical Medicine, Tehran, Iran, December 25-29, 2010.

Presentations

The Fifth Iranian International Congress of Medical Bacteriology, Maragheh, Iran, 15-17 August 2018.

Workshops Attended

1. Workshop (Theoretical-Practical) Real Time PCR, Tabriz, Iran, May 17, 2012.
2. Workshop of Statistical Analysis of Data with SPSS Software, Tabriz, Iran, May 30, 2018.
3. Workshop of Ethics in Laboratory Research. Tabriz, Iran, March 3, 2019.
4. Workshop of Publication Ethics. Tabriz, Iran, July 10, 2019.
5. Workshop of Ethics in Animal Experimentation. Tabriz, Iran, August 7, 2019.

Thesis / Project co-worker

1. Study on combination of beta-lactam, macrolide and aminoglycoside antibiotics against *Pseudomonas aeruginosa* biofilm in invitro. [Infectious and Tropical Diseases Research Centre, Tabriz University of Medical Sciences, Tabriz, Iran]
2. Determination of the fosfomycin resistance frequency in clinical Enterobacteriaceae isolates in hospitals of children, Asad Abadi, Imam Reza, Tabriz, Iran during 2018 [Immunology Research Center, Tabriz University of Medical Sciences, Tabriz, Iran]
3. Frequency of *Staphylococcus aureus* alpha hemolysin and fibronectin binding protein and collagen binding protein in blood cultures and evaluation of antimicrobial susceptibility patterns in Tabriz 2018. [Immunology Research Center, Tabriz University of Medical Sciences, Tabriz, Iran]
4. Frequency of superantigens and attachment factors of *Staphylococcus aureus* in clinical isolates and nasal colonizer in the same patients and comparison of the isolates in Tabriz, 1397. [Immunology Research Center, Tabriz University of Medical Sciences, Tabriz, Iran]
5. Antimicrobial effect of nano Calcium Hydroxide on the *Enterococcus faecalis*: biofilm at different developmental stage. [Dental and Periodontal Research Center, Tabriz University of Medical Sciences, Tabriz, Iran]
6. Antimicrobial effect of different concentration of simvastatin and triple antibiotic paste on the *Enterococcus faecalis* biofilm at the different developmental stage. [Dental and Periodontal Research Center, Tabriz University of Medical Sciences, Tabriz, Iran]

7. Comparison of bacterial microleakage in open apex teeth obturated with two different obturation techniques. [Dental and Periodontal Research Center, Tabriz University of Medical Sciences, Tabriz, Iran]
8. Nasal carriage of *Staphylococcus aureus* in dental students Tabriz University of Medical Sciences and detection its methicillin-resistant isolated 2019. [Immunology Research Center, Tabriz University of Medical Sciences, Tabriz, Iran, Registered in the system of researchers]
9. Frequency of blaPER-1 in clinical isolates of *Acinetobacter baumannii* and its association with quorum sensing (luxI, luxR), biofilm production (pgaB, bap) and virulence factors (pld, epsA, ptk) in Tabriz and typing of isolates by RAPD-PCR. [Infectious and Tropical Diseases Research Centre, Tabriz University of Medical Sciences, Tabriz, Iran]
10. The association of phylogenetic typing of the *Klebsiella pneumoniae* isolates with antibiotic resistance in Tabriz during 2019. [Infectious and Tropical Diseases Research Centre, Tabriz University of Medical Sciences, Tabriz, Iran]
11. Evaluation of the antimicrobial property and flexural strength of the acrylic resin used in orthodontic removable appliances containing ZnO and TiO₂ nanoparticles encapsulated in zeolite. [Dental and Periodontal Research Center, Tabriz University of Medical Sciences, Tabriz, Iran]
12. Comparison of the antibacterial property of Calcium hydroxide, Curcumin and Aloe vera on 6-week-old *Enterococcus faecalis* biofilm as an intracanal medicament, an in vitro study. [Dental and Periodontal Research Center, Tabriz University of Medical Sciences, Tabriz, Iran]

13. Evaluation of antibacterial effect of *origanum vulgare* extract, *zingiber officinale* essential oil, 5/25% sodium hypochlorite and 2% chlorhexidine as root canal irrigants against 6 week old *Enterococcus faecalis* biofilms at the root of the human permanent teeth (An invitro study). [School of Dentistry, Tabriz University of Medical Sciences, Tabriz, Iran]
14. Study on multidrug-resistant (MDR) uropathogenic *Escherichia coli* (UPEC) isolates, presence of beta lactamase genes and screening of them for O25b/ST131 strain in Tabriz, 2020. [Infectious and Tropical Diseases Research Centre, Tabriz University of Medical Sciences, Tabriz, Iran]
15. The effect of two different sealers on bacterial microleakage of dental root canal using two different obturation techniques. [Dental and Periodontal Research Center, Tabriz University of Medical Sciences, Tabriz, Iran]
16. The effect of incorporation the Bioactive Glass on the properties of the Mineral Trioxide Aggregate: (Phase 2: setting time & antibacterial properties). [School of Dentistry, Tabriz University of Medical Sciences, Tabriz, Iran]
17. Production of technical knowledge of fabric layer containing copper nanoparticles and investigating its Virucidal and bactericidal properties for breath mask application. [Dental and Periodontal Research Center, Tabriz University of Medical Sciences, Tabriz, Iran]
18. Comparison of the antibacterial effect of Ozone gel, Nd:Yag laser and 2.5% Sodium hypochlorite on 6-week-old *Enterococcus faecalis* biofilm, an invitro study. [School of Dentistry, Tabriz University of Medical Sciences, Tabriz, Iran]

19. Determination and comparison of the antimicrobial property of Triphala herbal and chlorhexidine mouthwash and the combined mouthwash of Triphala and chlorhexidine on the amount of Salivary *Streptococcus mutans* in fixed orthodontic patients (Randomized clinical trial, Multi-central). [School of Dentistry, Tabriz University of Medical Sciences, Tabriz, Iran]
20. Comparison of bacterial microleakage of canals obturated with single cone technique and Endoseal MTA sealer and filled canals with Obtura technique and AH26 sealer. [Dental and Periodontal Research Center, Tabriz University of Medical Sciences, Tabriz, Iran]
21. Determination and comparison of the antimicrobial property of chlorhexidine mouthwash and mouthwash containing nanosilver fluoride and the combined mouthwash of nanosilver fluoride and chlorhexidine on the amount of Salivary *Streptococcus mutans* in patients undergoing orthodontic treatment (Randomized clinical trial). [School of Dentistry, Tabriz University of Medical Sciences, Tabriz, Iran]
22. Typing of Meticillin resistant *Staphylococcus aureus* clinical isolates in Northwest Iran by MLST method. [Immunology Research Center, Tabriz University of Medical Sciences, Tabriz, Iran]
23. Comparison of antibacterial effect of silver diamine fluoride, sodium hypochlorite and ozone gel on *Enterococcus faecalis* of deciduous molars' root canal. [School of Dentistry, Tabriz University of Medical Sciences, Tabriz, Iran]

Teaching Experiences

Doctoral, MS.c and BS.c levels in Tabriz University of Medical Sciences, Islamic Azad University of Tabriz and University College of Nabi Akram Tabriz (UCNA)

Research interests

1. Study of prevalence and mechanisms of antimicrobial resistance in pathogenic bacteria.
2. Diagnosis of pathogenic bacteria by molecular methods.
3. Evaluation of phenotypic and genotypic methods for diagnosis of anaerobic bacterial pathogens.

Cultural activities

The First rank in 5th Cultural and Art Festival, Tabriz, Iran, October 27, 2013.

Computer Skills

Seven skills of computer [International Computer Driving Licence; ICDL] and SPSS