



Curriculum Vitae

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Department of Microbiology
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Personal information:

Sex: Male
Date of Birth: 26/08/1971
Marital Status: Married
Place of Birth: Ilam city, Iran.
Nationality: Iranian

Current University Position

Associate Professor, Department of Microbiology, Faculty of Medicine, Ilam University of Medical Sciences

Responsibilities

2005– Present	Vice Chancellor for Education and Research Ilam University of Medical Sciences
1997- Present	Member of education committee Ilam University of Medical Sciences Member of Research committee Ilam University of Medical Sciences

Honors and Awards:

- 1) A Commendation letter from president of Faculty of Health, Tehran University of Medical Sciences, Tehran as *saliency student*, 2003.
- 2) A Commendation letter from president of Tehran University, Tehran as *saliency student*, 1992.
- 3- A Commendation letter from president of Faculty of sciences, Tehran University, Tehran as *saliency student*, 1991.
- 4- A commendation letter from the vice chancellor of Ministry of Sciences, Iran as *selected Researcher in Iran*, 2007.

Research Interest:

- 1) *Molecular Typing of Anaerobic Bacteria.*
- 2) *Molecular detection of Pathogenic agents.*
- 3) molecular analysis of ESBL producing bacteria
- 4) Transferrin/ Lactoferrin binding proteins in gram negative bacteria

Membership of Association:

Member of *Iranian Society of Microbiology.*

Teaching Experiences:

Teaching *physiology of microorganisms* to M.Sc. Students.
Ilam University of Medical Sciences, Ilam, Iran

Teaching Clinical Microbiology to Medical Students.
Ilam University of Medical Sciences

Workshops Attended

2001

Participating in workshop of molecular techniques including:
DNA extraction, Transformation, PCR, RT-PCR, RFLP,
Electrophoresis and Gene cloning.
Tehran University of medical sciences, Tehran, Iran.

Attended the Workshop entitled “Research Methods”.
Organized by Tehran University of medical sciences,
Tehran, Iran.

Attended the Workshop entitled “Teaching Methods”.
Organized by Tehran University of medical sciences,
Tehran, Iran.

Educational Background

1993

B.Sc: Microbiology
Tehran University, Iran.

1996

Master of Sciens (MSc), Medical Bacteriology
Pasteur Institute of Iran, Tehran, Iran
Title of MSc thesis: Comparison of rapid Urease test,
Histopathology, and Culture for detection of *H. pylori* in dyspeptic
patients.

2006

Ph.D: *Medical Bacteriology*
Tehran University of Medical Sciences
Tehran, Iran.
Title of Ph.D thesis: Isolation, Molecular analysis and detection of
drug resistance of toxigenic *Clostridium difficile* isolates in
hospitalized patients with nosocomial diarrhea in three teaching

hospitals by culture and PCR-ribotyping.

Other Scientific Activities:

1) Scientific programme director of the 10th Iranian congress of the Microbiology

1) Member of Executive committee of the 6th Iranian congress of the Microbiology

Books Chapters:

Ranjbar .R,Zaeimi Yazdi J,**Sadeghifard N**, et al. *Anaerobic bacteria: Principles and laboratory diagnosis*. Teimourzadeh Press. Tehran, 2003.

Sadeghifard N, Taherikalani M. *Clostridium difficile*. Raman Press, Ilam. 2010.

Ghafourian S, Sekawi Z, **Sadeghifard N**. Molecular characterization of ESBL producing *Klebsiella* SPP isolates.Lambert Academic publishing, Germany, 2011.

Textbook translation to persian:

Ranjbar R, **Sadeghifard N**, et al. *Medical Microbiology* (Murry PR, Rosenthal KS, Kobayashi GS, Pfaller MA).4th edition, Mosby (In press).

Full Articles:

(1-163)

1. Kouhsari E, Sadeghifard N, Karimian M, Kalvandi G, Sayyadi H, Feizi J, et al. The Effectiveness of Laboratory Parameters in Predicting the in-Hospital Mortality of Iranian Patients with Coronavirus Disease 2019 (COVID-19). *Annali di igiene : medicina preventiva e di comunita*. 2022;34(2):128-36.
2. Khoshnood S, Shirani M, Dalir A, Moradi M, Haddadi MH, Sadeghifard N, et al. Antiviral effects of azithromycin: A narrative review. *Biomedicine and Pharmacotherapy*. 2022;147.
3. Khoshnood S, Arshadi M, Akrami S, Koupaei M, Ghahramanpour H, Shariati A, et al. An overview on inactivated and live-attenuated SARS-CoV-2 vaccines. *Journal of clinical laboratory analysis*. 2022:e24418.
4. Asadollahi P, Pakzad I, Ghafourian S, Kazemian H, Fatahi R, Sadeghifard N, et al. In silico Investigation of Lon Protease as a Promising Therapeutic Target. *Drug Res (Stuttg)*. 2022;72(4):180-8.
5. Asadi A, Shadab Mehr N, Mohamadi MH, Shokri F, Heidary M, Sadeghifard N, et al. Obesity and gut-microbiota-brain axis: A narrative review. *Journal of clinical laboratory analysis*. 2022:e24420.
6. Sayyadi M, Kouhsari E, Kalvandi G, Kazemian H, Ghafouri Z, Sadeghifard N. Characteristics of *Clostridioides difficile* colonization in Ilamian children. *Annali di Igienne Medicina Preventiva e di Comunita*. 2021;33(3):209-19.
7. Maleki A, Moslem MS, Kouhsari E, Pakzad I, Ghafouri Z, Khaghani S, et al. Virulence-associated genes and toxin-antitoxin system genes of *Shigella flexneri*: Presence and expression in normal and thermal stress conditions. *Meta Gene*. 2021;27.
8. Mahdian N, Kouhsari E, Gheysarzadeh A, Maleki A, Valadbeigi H, Sadeghifard N. The prevalence of shiga toxin-1 in non-shigella dysenteriae isolates collected from diarrhea samples in patients, ahvaz, iran. *Infectious Disorders - Drug Targets*. 2021;21(5).
9. Kouhsari E, Sadeghifard N, Karimian M, Sayyadi H, Nazari A, Mozafari AA, et al. Neutrophil-to-Lymphocyte Ratio as a Poor Prognostic Factor in Iranian COVID-19 Patients. *Clinical Laboratory*. 2021;67(2):370-5.
10. Khoshnood S, Taki E, Sadeghifard N, Kaviar VH, Haddadi MH, Farshadzadeh Z, et al. Mechanism of Action, Resistance, Synergism, and Clinical Implications of Delamanid Against Multidrug-Resistant *Mycobacterium tuberculosis*. *Frontiers in Microbiology*. 2021;12.
11. Kazemian H, Heidari H, Kardan-Yamchi J, Ghafourian S, Pakzad I, Kouhsari E, et al. Comparison of toxin-antitoxin expression among drug-susceptible and drug-resistant clinical isolates of *mycobacterium tuberculosis*. *Advances in Respiratory Medicine*. 2021;89(2):110-4.
12. Karkoub M, Kouhsari E, Khaghani S, Sadeghifard N. Clonal lineage analysis of

shigella flexneri isolates circulating in Ahvaz, Iran. Clinical Laboratory. 2021;67(4):1052-7.

13. Bastam MM, Jalili M, Sadeghifard N, Pakzad I, Taherikalani M, Ghafourian S. Evaluation of microbial profile of milk and some dairy products in Ilam, west of Iran. Open Public Health Journal. 2021;14(1):1-6.

14. Bahmaninejad P, Ghafourian S, Mahmoudi M, Maleki A, Sadeghifard N, Badakhsh B. Persister cells as a possible cause of antibiotic therapy failure in *Helicobacter pylori*. JGH Open. 2021;5(4):493-7.

15. Amanpour Z, Kouhsari E, Pakzad I, Kenarkoobi A, Sadeghifard N. Simultaneous molecular detection of common bacterial enteropathogens in children with diarrhea by multiplex-pcr assay. Clinical Laboratory. 2021;67(6):1403-8.

16. Valadbeigi H, HatamiLak M, Maleki A, Kouhsari E, Sadeghifard N. Molecular characteristics, antimicrobial resistance profiles, and antibiotic resistance determinants in uropathogenic fluoroquinolone resistant-*Escherichia coli* isolates. Gene Reports. 2020;18.

17. Teimour pour M, Gheysarzadeh A, Pakzad I, Valadbeigi H, Maleki A, Sadeghifard N. Antimicrobial resistance and genetic analysis of multi-drug resistant *Klebsiella pneumoniae* isolates by pulsed-field gel electrophoresis. Gene Reports. 2020;19.

18. Sholeh M, Maleki F, Krutova M, Bavari S, Golmoradi R, Sadeghifard N, et al. The increasing antimicrobial resistance of *Helicobacter pylori* in Iran: A systematic review and meta-analysis. Helicobacter. 2020;25(5).

19. Sholeh M, Krutova M, Forouzesh M, Mironov S, Sadeghifard N, Molaeipour L, et al. Antimicrobial resistance in *Clostridioides (Clostridium) difficile* derived from humans: A systematic review and meta-analysis. Antimicrobial Resistance and Infection Control. 2020;9(1).

20. Pooyan F, Gheysarzadeh A, Sadeghifard N, Kikhavani S. L and S alleles of 5HTTLPR polymorphism of SLC6A4 gene in healthy people and patients with severe depression in Ilam province, Iran. Meta Gene. 2020;25.

21. Moradkasani S, Jazi FM, Sadeghifard N, Kouhsari E, Kalani BS, Pakzad I. Multiple-locus variable-number tandem-repeat analysis genotyping of brucella isolates from Iran. Clinical Laboratory. 2020;6(10):1979-86.

22. Mohammad-Hossein H, Mahdian S, Gheysarzadeh A, Khosravi M, Abangah G, Maleki A, et al. The cagA EPIYA Motifs and vacA Genotypes in Upper Gastrointestinal Diseases. Molecular Genetics, Microbiology and Virology. 2020;35(2):105-11.

23. Mohamadian M, Sadeghifard N, Ghafourian S, Pakzad I, Badakhsh B. Biofilm formation in Methicillin Resistant *Staphylococcus aureus*. Gene Reports. 2020;21.

24. Maleki F, Sadeghifard N, Sedighian H, Bakhtiyari S, Hosseini HM, Fooladi AAI. TGF α L3-SEB fusion protein as an anticancer against ovarian cancer. European Journal of Pharmacology. 2020;870.

25. Maleki A, Zamirnasta M, Taherikalani M, Pakzad I, Mohammadi J, Krutova M, et al. The characterization of bacterial communities of oropharynx microbiota in healthy children by combining culture techniques and sequencing of the 16S rRNA gene. Microbial Pathogenesis. 2020;143.

26. Maleki A, Mirnaseri Z, Kouhsari E, Taherikalani M, Pakzad I, Mohammadi J, et al. Asymptomatic carriers of *Neisseria meningitidis* and *Moraxella catarrhalis* in healthy

children. *New Microbes and New Infections*. 2020;36.

27. Maleki A, Mansournia F, Ghafourian S, Taherikalani M, Pakzad I, Mohammadi J, et al. Rapid and direct molecular detection of *Streptococcus pneumoniae* and *Haemophilus influenzae* isolated in oropharynx and nasal cavity of children. *New Microbes and New Infections*. 2020;33.

28. Hematian A, Sadeghifard N, Mohebi R, Taherikalani M, Nasrolahi A, Amraei M, et al. Corrigendum to "Traditional and Modern Cell Culture in Virus Diagnosis"[*Osong Public Health Res Perspect* 2016;7(2):77-82]. *Osong Public Health Res Perspect*. 2020;11(4):266.

29. Hematian A, Sadeghifard N, Mohebi R, Taherikalani M, Nasrolahi A, Amraei M, et al. Erratum: Traditional and modern cell culture in virus diagnosis (*Osong Public Health and Research Perspectives* (2016) 7:2 (77-82) DOI: 10.1016/j.phrp.2015.11.011). *Osong Public Health and Research Perspectives*. 2020;11(4):266.

30. Hemati S, Kouhsari E, Sadeghifard N, Maleki A, Omidi N, Mahdavi Z, et al. Sub-minimum inhibitory concentrations of biocides induced biofilm formation in *Pseudomonas aeruginosa*. *New Microbes and New Infections*. 2020;38.

31. Gheysarzadeh A, Sadeghifard N, Safari M, Rashidian T, Mohammadyari E, Tavan H. Case series of four pregnant women with COVID-19 in Ilam, Iran. *New Microbes and New Infections*. 2020;38.

32. Gheysarzadeh A, Sadeghifard N, Safari M, Balavandi F, Falahi S, Kenarkoohi A, et al. Report of five nurses infected with severe acute respiratory syndrome coronavirus 2 during patient care: case series. *New Microbes and New Infections*. 2020;36.

33. Ghaysouri A, Sadeghifard N, Nazari A, Kalvandi G, Feizi J, Qasemi E, et al. New clinical experiences and evaluation of clinical and paraclinical features of deceased patients with COVID-19 infection referred to Shahid Mostafa Khomeini Hospital of Ilam. *Travel Medicine and Infectious Disease*. 2020;37.

34. Elhaki T, Gheysarzadeh A, Sadeghifard N, Pakzad I, Behrouzi A, Taherikalani M, et al. Frequency of iron uptake proteins related genes among *Klebsiella pneumoniae* isolates. *Open Microbiology Journal*. 2020;14(1):107-12.

35. Asadi A, Abdi M, Kouhsari E, Panahi P, Sholeh M, Sadeghifard N, et al. Minocycline, focus on mechanisms of resistance, antibacterial activity, and clinical effectiveness: Back to the future. *Journal of Global Antimicrobial Resistance*. 2020;22:161-74.

36. Valadbeigi H, Esmaeeli E, Ghafourian S, Maleki A, Sadeghifard N. Molecular analysis of uropathogenic *E.Coli* isolates from urinary tract infections. *Infectious Disorders - Drug Targets*. 2019;19(3):315-8.

37. Nasser A, Azizian R, Tabasi M, Khezerloo JK, Heravi FS, Kalani MT, et al. Specification of bacteriophage isolated against clinical methicillin-resistant *Staphylococcus Aureus*. *Osong Public Health and Research Perspectives*. 2019;10(1):20-4.

38. Maleki F, Sadeghifard N, Hosseini HM, Bakhtiyari S, Goleij Z, Behzadi E, et al. Growth-inhibitory effects of TGF α L3-SEB chimeric protein on colon cancer cell line. *Biomedicine and Pharmacotherapy*. 2019;110:190-6.

39. Kazemian H, Heidari H, Ghanavati R, Ghafourian S, Yazdani F, Sadeghifard N, et al. Phenotypic and Genotypic Characterization of ESBL-, AmpC-, and Carbapenemase-Producing *Klebsiella pneumoniae* and *Escherichia coli* Isolates. *Medical Principles and Practice*. 2019;28(6):547-51.

40. Jalili M, Amraei M, Sadeghifard N, Ghafourian S. Evaluation of biofilm formation and anti-biofilm properties of *Peganum harmala* and *Crocus sativus* in shigella flexneri clinical isolates. *Open Microbiology Journal*. 2019;13(1):297-300.
41. Zayyen KM, Rastegar-Lari A, Ghafourian S, Taherikalani M, Sadeghifard N, Jalilian FA, et al. Mutation and efflux system are responsible for ciprofloxacin resistance in *Klebsiella pneumoniae*. *West Indian Medical Journal*. 2018;67(3):226-8.
42. Moghimbeigi A, Moghimbeygi M, Dousti M, Kiani F, Sayehmiri F, Sadeghifard N, et al. Prevalence of vancomycin resistance among isolates of enterococci in Iran: a systematic review and meta-analysis. *Adolescent health, medicine and therapeutics*. 2018;9:177-88.
43. Maleki A, Ghafourian S, Pakzad I, Badakhsh B, Sadeghifard N. mazE Antitoxin of Toxin Antitoxin System and fbpA as Reliable Targets to Eradication of *Neisseria meningitidis*. *Curr Pharm Des*. 2018;24(11):1204-10.
44. Maleki A, Ghafourian S, Pakzad I, Badakhsh B, Sadeghifard N. Maze antitoxin of toxin antitoxin system and fbpA as reliable targets to eradication of *neisseria meningitidis*. *Current Pharmaceutical Design*. 2018;24(11):1204-10.
45. Kazemian H, Ghafourian S, Sadeghifard N, Houshmandfar R, Badakhsh B, Tajji A, et al. In vivo antibacterial and wound healing activities of Roman chamomile (*Chamaemelum nobile*). *Infectious Disorders - Drug Targets*. 2018;18(1):41-5.
46. Gheysarzadeh A, Sadeghifard N, Afraidooni L, Pooyan F, Mofid MR, Valadbeigi H, et al. Serum-based microRNA biomarkers for major depression: MiR-16, miR-135a, and miR-1202. *Journal of Research in Medical Sciences*. 2018;23(1).
47. Esmaili K, Mohebi R, Sadeghifard N, Taherikalani M, Pakzad I, Maleki A, et al. What about urinary tract infections and its antibiotic resistance bacteria in Ilam, Iran? *Infectious Disorders - Drug Targets*. 2018;18(3):214-7.
48. Choe HS, Lee SJ, Cho YH, Çek M, Tandoğdu Z, Wagenlehner F, et al. Aspects of urinary tract infections and antimicrobial resistance in hospitalized urology patients in Asia: 10-Year results of the Global Prevalence Study of Infections in Urology (GPIU). *Journal of Infection and Chemotherapy*. 2018;24(4):278-83.
49. Choe HS, Lee SJ, Cho YH, Çek M, Tandoğdu Z, Wagenlehner F, et al. Aspects of urinary tract infections and antimicrobial resistance in hospitalized urology patients in Asia: 10-Year results of the Global Prevalence Study of Infections in Urology (GPIU). *Journal of infection and chemotherapy : official journal of the Japan Society of Chemotherapy*. 2018;24(4):278-83.
50. Bimanand L, Taherikalani M, Jalilian FA, Sadeghifard N, Ghafourian S, Mahdavi Z, et al. Association between biofilm production, adhesion genes and drugs resistance in different SCCmec types of methicillin resistant *Staphylococcus aureus* strains isolated from several major hospitals of Iran. *Iranian Journal of Basic Medical Sciences*. 2018;21(4):400-3.
51. Valizadeh N, Valian F, Sadeghifard N, Karami S, Pakzad I, Kazemian H, et al. The Role of *Peganum harmala* Ethanolic Extract and Type II Toxin Antitoxin System in Biofilm Formation. *Drug Research*. 2017;67(7):385-7.
52. Valadbeigi H, Sadeghifard N, Salehi MB. Assessment of biofilm formation in *Pseudomonas aeruginosa* by antisense mazE-PNA. *Microbial Pathogenesis*. 2017;104:28-31.

53. Valadbeigi H, Sadeghifard N, Salehi MB. The prevalence of pilA and algD virulence genes in *Pseudomonas aeruginosa* urinary tract and tracheal isolates. *Infectious Disorders - Drug Targets*. 2017;17(2):86-9.
54. Rafieian-Kopaei M, Saki K, Bahmani M, Ghafourian S, Sadeghifard N, Taherikalani M. Listeriosis Phytotherapy: A Review Study on the Effectiveness of Iranian Medicinal Plants in Treatment of Listeriosis. *Journal of Evidence-Based Complementary and Alternative Medicine*. 2017;22(2):278-83.
55. Maleki A, Ghafourian S, Badakhsh B, Pakzad I, Sadeghifard N. Novel information about *Neisseria meningitidis*: Identification of the most important type II toxin antitoxin systems. *Infectious Disorders - Drug Targets*. 2017;17(2):81-5.
56. Khayat H, Sadeghifard N, Pakzad I, Azimi L, Delfani S, Sayehmiri K, et al. Determination of different fluoroquinolone mechanisms among clinical isolates of *acinetobacter baumannii* in Tehran, Iran. *Iranian Red Crescent Medical Journal*. 2017;19(9).
57. Hemati S, Ghafourian S, Sadeghifard N, Mahdavi Z, Maleki A, Sayehmiri F, et al. 3rd generation of cephalosporins and monobactam resistant among pathogenic bacteria collected from Ilam hospitals during 2008 to 2015: A systematic review and meta-analysis. *Recent Patents on Anti-Infective Drug Discovery*. 2017;12(1):3-7.
58. Ghafourian E, Sadeghifard N, Pakzad I, Valizadeh N, Maleki A, Jafari F, et al. Ethanolic Extract of *Berberis Vulgaris* Fruits Inhibits the Proliferation of MCF-7 Breast Cancer Cell Line Through Induction of Apoptosis. *Infectious disorders drug targets*. 2017;17(3):192-8.
59. Valian F, Sadeghifard N, Pakzad I, Valizadeh N, Karami S, Badakhsh B, et al. The rationale behind antibiotic resistance pattern in *Klebsiella pneumoniae*. *Tropical Biomedicine*. 2016;33(2):383-6.
60. Taherikalani M, Mohammadzad MR, Soroush S, Maleki MH, Azizi-Jalilian F, Pakzad I, et al. Determining the prevalence of SCCmec polymorphism, virulence and antibiotic resistance genes among methicillin-resistant *Staphylococcus aureus* (MRSA) isolates collected from selected hospitals in west of Iran. *Journal of Chemotherapy*. 2016;28(2):104-9.
61. Saidi M, Sadeghifard N, Kazemian H, Sekawi Z, Badakhsh B, Friadian S, et al. Ex Vivo Evaluation of *Thymus daenensis* as an Antioxidant and Antibacterial Medicinal Herb. *Drug Research*. 2016;66(12):657-9.
62. Hematian A, Sadeghifard N, Mohebi R, Taherikalani M, Nasrolahi A, Amraei M, et al. Traditional and Modern Cell Culture in Virus Diagnosis. *Osong Public Health and Research Perspectives*. 2016;7(2):77-82.
63. Davodian E, Sadeghifard N, Ghasemian A, Noorbakhsh S. Presence of blaPER-1 and blaVEB-1 beta-lactamase genes among isolates of *Pseudomonas aeruginosa* from South West of Iran. *Journal of Epidemiology and Global Health*. 2016;6(3):211-3.
64. Badakhsh B, Sadeghifard N, Taherikalani M, Valian F, Rostamzad A, Ghafourian S. Probiotics and different efficacy, how it can be managed? *Current Drug Therapy*. 2016;11(1):41-6.
65. Aboualigalehdari E, Sadeghifard N, Taherikalani M, Zargoush Z, Tahmasebi Z, Badakhsh B, et al. Anti-biofilm Properties of *Peganum harmala* against *Candida albicans*. *Osong Public Health and Research Perspectives*. 2016;7(2):116-8.
66. Soheili S, Ghafourian S, Sekawi Z, Neela VK, Sadeghifard N, Taherikalani M, et al.

The mazEF toxin-antitoxin system as an attractive target in clinical isolates of *Enterococcus faecium* and *Enterococcus faecalis*. *Drug Des Devel Ther*. 2015;9:2553-61.

67. Soheili S, Ghafourian S, Sekawi Z, Neela VK, Sadeghifard N, Taherikalani M, et al. The mazEF toxin-antitoxin system as an attractive target in clinical isolates of *Enterococcus faecium* and *Enterococcus faecalis*. *Drug Design, Development and Therapy*. 2015;9:2553-61.

68. Sadeghifard N, Kazemian H, Mohebi R, Sekawi Z, Khosravi A, Valizadeh N, et al. Epidemiological alteration in pathogens found in ground meat in Iran: unexpected predominance of vancomycin-resistant *Enterococcus faecalis*. *GMS hygiene and infection control*. 2015;10:Doc12.

69. Nazari MR, Sekawi Z, Sadeghifard N, Raftari M, Ghafourian S. Methicillin-resistant *Staphylococcus aureus*: A systematic review. *Reviews in Medical Microbiology*. 2015;26(1):1-7.

70. Mohammadi F, Ghafourian S, Mohebi R, Taherikalani M, Pakzad I, Valadbeigi H, et al. *Enterococcus faecalis* as multidrug resistance strains in clinical isolates in Imam Reza Hospital in Kermanshah, Iran. *British Journal of Biomedical Science*. 2015;72(4):182-4.

71. Maleki A, Khosravi A, Ghafourian S, Pakzad I, Hosseini S, Ramazanzadeh R, et al. High Prevalence of AmpC β -Lactamases in Clinical Isolates of *Escherichia coli* in Ilam, Iran. *Osong Public Health and Research Perspectives*. 2015;6(3):201-4.

72. Mahdian S, Sadeghifard N, Pakzad I, Ghanbari F, Soroush S, Azimi L, et al. *Acinetobacter baumannii* clonal lineages I and II harboring different carbapenem-hydrolyzing- β -lactamase genes are widespread among hospitalized burn patients in Tehran. *Journal of Infection and Public Health*. 2015;8(6):533-42.

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77. Ghasemi A, Ghafourian S, Vafaei S, Mohebi R, Farzi M, Taherikalani M, et al. Cloning, Expression, and Purification of Hyperthermophile α -Amylase from *Pyrococcus woesei*. *Osong Public Health and Research Perspectives*. 2015;6(6):336-40.

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wound isolates of *Pseudomonas aeruginosa*. Archives of Pediatric Infectious Diseases. 2015;3(4).

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