

## Curriculum Vitae



### Personal Description

**Name:** Sobhan **Surname:** Ghafourian

**Sex:** Male

**Birth date:** 21/09/1981

**Place of Birth:** Ilam, Iran.

**Marital S:** Married

**Nationality:** Iranian

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### Academic Qualification

(Certificate/ Qualification obtained)	(Name of School/ Institution)	(Year obtained)	(Area of Specialization)
Ph.D	Universiti Putra Malaysia	2014	Medical Microbiology
Msc	Universiti Putra Malaysia	2011	Medical Microbiology
Bsc	Azad Islamic University of Arak	2005	Microbiology

## Research Experiences:

Bacteriological experiences including: culture, biochemical, serological and molecular tests And also the others experiences including: cell culture, cell cytotoxicity assay, virus culture.

Animal: Mice-Rabbit

Molecular: DNA&RNA extraction, PCR, RT-PCR, nested -PCR, multiplex PCR, Real Time-PCR, SDS-PAGE, Western Blotting, cloning and expression systems, protein purification, PNA array.

## Selected Papers Presented In International Congress:

- 1. Ghafouryan S,** Sadeghifard N. Antimicrobial Pattern and Frequency and Clonal Dissemination of TEM & SHV Genes in *Klebsiella Pneumonia* Isolated From Patients in Milad Hospital and Ilam hospitals. 2009. BAKU
- 2. Mohebi, R.,** Sadeghifard, N., **Ghafouryan, S.** Incidence of Metallo Beta Lactamase Producing *Pseudomonas Aeruginosa* and Frequency of VIM and IMP Genes in Kerman Hospital & Ilam Hospitals. 2009. BAKU
- 3. Sadeghifard, N., Ghafouryan, S.** PREVALENCE of SHV and TEM genes among ESBL producing *E. coli* in Milad and Ilam hospitals. 2009. BAKU
- 4. Abbas Maleki, Sobhan Ghafourian, Mostafa Akbari Qomi, Norkhoda Sadeghifard.** Antibiotic Susceptibility and Molecular Analysis of *Acinetobacter Baumannii* Strains Isolated from Three Teaching Hospitals by REP-PCR and ERIC-PCR. The 13th Iranian & The Second International Congress of Microbiology
- 5. Iraj pakzad, soya Bahmani, sobhan Ghafourian, Hssan Hosseinzadehgan.** Diagnosis of human brucellosis by PCR of *I7/I12* and *16srRNA* genes compare with common serological tests
- 6. Ghafourian, S.,** Sadeghifard, N., Mohebi, R. STUDY OF *KLEBSIELLA PNEUMONIAE* UROPATHOGENIC STRAINS PRODUCING EXTENDED-SPECTRUM BETA-LACTAMASE IN THREE HOSPITALS, IRAN. 4TH Congress of European Microbiologists Geneva, Switzerland, June 26-30, 2011.
- 7. Mohebi, R.,** Sadeghifard, N., **Ghafourian, S.,** Abouali galehdari, E. *KLEBSIELLA PNEUMONIAE* PRODUCTION EXTENDED SPECTRUM BETA-LACTAMASES IN RESPIRATORY TRACT. 4TH Congress of European Microbiologists Geneva, Switzerland, June 26-30, 2011.
- 8. Ghafourian, S.** Sadeghifard, N., Mohebi, R., Hushmand Far, R. CHARACTERIZATION OF THE FIRST IMP METALLO BETA-LACTAMASE GENE PRODUCING *PESUDOMONAS AEROGINOSA* STRAINS ISOLATED

IN ILAM , IRAN. 21st ECCMID 2011 - 27th ICC. 7 - 10 May 2011 / Milan, Italy.

- 9.** Raftari, M., Azizi Jalilian, F., **Ghafourian, S.**, Abu bakr, F. Optimized antibacterial measures against E. coli O157:H7 and S. aureus. 21st ECCMID 2011 - 27th ICC. 7 - 10 May 2011 / Milan, Italy.
- 10.** N. Sadeghifard, Z. Rasaei, M.R Zolfaghari, **S. Ghafourian**. Prevalence of PAPI-1 in clinical isolates of Pseudomonas aeruginosa **ECCMID 2012 London**.
- 11.** N. Sadeghifard, **S. Ghafourian**, A. Maleki, R. Mohebi. Prevalence of intestinal parasitic infections among suspected referred patients to a reference laboratory in Ilam, Iran. **ECCMID 2012 London**.
- 12.** Zambari Sekawi, **Sobhan Ghafourian**. Toxin antitoxin system: A key for antimicrobial Target among Acinetobacter baumannii. ECCMID 2013 Germany.
- 13.** **Ghafourian S.**; Sekawi Z.; Good L.; Sadeghifard N. MazEF toxin-antitoxin system is a widespread and sensitive antimicrobial target in antibiotic-resistant Staphylococcus aureus . eccmid 2014 Spain.
- 14.** Sadeghifard, N.; Soheili, S.; **Ghafourian, S.**; Hamat, R.A.; Sekawi, Z.. Toxin-antitoxin system as a sensitive target in pathogenic Enterococcus. eccmid 2014 Spain.

## **International Journals**

- 1.** **Ghafourian, S.**, Sadeghifard, N., Soheili, S., & Sekawi, Z. (2015). Extended spectrum beta-lactamases: Definition, classification and epidemiology. *Current Issues in Molecular Biology*, 17(1), 11-22. **(ISI, IF=6)**
- 2.** Azar Hasanvand, **Sobhan Ghafourian**, Morovat Taherikalani, Farid A Jalilian, Nourkhoda Sadeghifard, Iraj Pakzad: Antiseptic Resistance in Methicillin Sensitive and Methicillin Resistant Staphylococcus aureus Isolates from Some Major Hospitals, Iran.. 06/2015;
- 3.** Sara Soheili, **Sobhan Ghafourian**, Zambari Sekawi, Vasantha Kumari Neela, Nourkhoda Sadeghifard, Morovat Taherikalani, Afra Khosravi, Ramliza Ramli: The mazEF toxin-antitoxin system as an attractive target in clinical isolates of Enterococcus faecium and Enterococcus faecalis. Drug Design,

Development and Therapy 05/2015; 9(May):2553 – 2561.

DOI:10.2147/DDDT.S77263

4. M H Karimfar, F Niazvand, K Haghani, **S Ghafourian**, R Shirazi, Salar Bakhtiyari: The protective effects of melatonin against cryopreservation-induced oxidative stress in human sperm. *International journal of immunopathology and pharmacology* 03/2015; 28(1):69-76.  
DOI:10.1177/0394632015572080
5. Sajedah Karimi, **Sobhan Ghafourian**, Morovat Taheri Kalani, Farid Azizi Jalilian, Saeed Hemati, Nourkhoda Sadeghifard: Association Between Toxin-Antitoxin Systems and Biofilm Formation. *Jundishapur Journal of Microbiology* 01/2015; 8(1):e14540. DOI:10.5812/jjm.14540
6. Mohammad Reza Nazari, Zamberi Sekawi, Nourkhoda Sadeghifard, Mohammad Raftari, **Sobhan Ghafourian\***: Methicillin-resistant *Staphylococcus aureus*. *Reviews in Medical Microbiology* 01/2015; 26(1):1-7.  
DOI:10.1097/MRM.0000000000000023
7. A Ghafourian, **S Ghafourian**, N Sadeghifard, R Mohebi, Y Shokoohini, S Nezamoleslami, R A Hamat: Vitiligo: symptoms, pathogenesis and treatment.. *International journal of immunopathology and pharmacology* 10/2014; 27(4):485-9.
8. Sara Soheili, **Sobhan Ghafourian**, Zamberi Sekawi, Vasanthakumari Neela, Nourkhoda Sadeghifard, Ramliza Ramli, Rukman Awang Hamat: Wide Distribution of Virulence Genes among *Enterococcus faecium* and *Enterococcus faecalis* Clinical Isolates. 07/2014; 2014:623174.  
DOI:10.1155/2014/623174
9. **Ghafourian, S.**, Good, L., Sekawi, Z., Hamat, R. A., Soheili, S., Sadeghifard, N., & Neela, V. (2014). The mazEF toxin-antitoxin system as a novel antibacterial target in *acinetobacter baumannii*. *Memorias do Instituto Oswaldo Cruz*, 109(4), 502-505. (ISI, IF=1.3)
10. **Ghafourian, S.**, Raftari, M., Sadeghifard, N., & Sekawi, Z. (2014). Toxin-antitoxin systems: Classification, biological function and application in biotechnology. *Current Issues in Molecular Biology*, 16(1), 9-14. (ISI, IF=6)
11. Nourkhoda Sadeghifard, Sara Soheili, Zamberi Sekawi, **Sobhan Ghafourian\***. Is the mazEF toxin-antitoxin system responsible for vancomycin resistance in clinical isolates of *Enterococcus faecalis*? *GMS Hygiene and Infection Control* 2014, Vol. 9(1). (PUBMED)
12. Aboualigalehdari, E., **Ghafourian, S.**, Sadeghifard, N., & Sekawi, Z. (2013). Is *candida albicans* a cause of nosocomial infection in iran? *Reviews in Medical Microbiology*, 24(4), 85-88. (ISI, IF=0.5)
13. Soheili S, **Ghafourian S**, Sekawi Z, Neela V, Sadeghifard N, Ramli R, Hamat RA. Wide distribution of virulence genes among *Enterococcus faecium* and *Enterococcus faecalis* clinical isolates. *ScientificWorldJournal*. 2014;2014:623174. doi: 10.1155/2014/623174 (ISI, IF=1.2)

14. Alipour, T., Sadeghifard, N., Amirmozafari, N., **Ghafurian, S.**, Abdulmir, A. S., Mohebi, R., Raftari, M. (2010). Incidence of extended spectrum beta-lactamase producing pseudomonas aeruginosa and frequency of OXA-2 and OXA-10 genes. *Australian Journal of Basic and Applied Sciences*, 4(8), 3202-3207. **(SCOPUS)**
15. **Ghafourian, S.**, Mohebi, R., Rezaei, M., Raftari, M., Sekawi, Z., Kazemian, H., . . . Sadeghifard, N. (2012). Comparative analysis of biofilm development among MRSA and MSSA strains. *Roumanian Archives of Microbiology and Immunology*, 71(4), 175-182. **(PUBMED-SCOPUS)**
16. **Ghafourian, S.**, Mohebi, R., Sekawi, Z., Raftari, M., Neela, V., Ghafourian, E., . . . Sadeghifard, N. (2012). Effect of tannin extract against pseudomonas aeruginosa producing metallo beta-lactamase. *Journal of Biological Regulators and Homeostatic Agents*, 26(2), 231-236. **(ISI, IF=2.4)**
17. **Ghafourian, S.**, Sadeghifard, N., Sekawi, Z. B., Neela, V. K., Shamsudin, M. N., Mohebi, R., . . . Raftari, M. (2010). Antimicrobial pattern and clonal dissemination of extended-spectrum beta-lactamase producing klebsiella spp isolates. *American Journal of Infectious Diseases*, 6(4), 110-121. **(SCOPUS)**
18. **Ghafourian, S.**, Sadeghifard, N., Sekawi, Z. B., Neela, V. K., Shamsudin, M. N., Pakzad, I., . . . Rahbar, M. (2011). Phenotypic and genotypic assay for detection of extended spectrum  $\beta$ -lactamases production by klebsiella pneumoniae isolates in emam reza hospital in tabriz, iran. *Journal of Pure and Applied Microbiology*, 5(1), 1-10. **(ISI, IF=0.05)**
19. **Ghafourian, S.**, Sekawi, Z., Neela, V., Khosravi, A., Rahbar, M., & Sadeghifard, N. (2012). Incidence of extended-spectrum beta-lactamase-producing klebsiella pneumoniae in patients with urinary tract infection. [Incidência de klebsiella pneumoniae produtoras de beta-lactamases de espectro estendido em pacientes com infecção do trato urinário] *Sao Paulo Medical Journal*, 130(1), 37-43. **(ISI, IF=0.8)**
20. **Ghafourian, S\***, Sekawi, Z., Raftari, M., & Ali, M. S. M. (2013). Application of proteomics in lab diagnosis. *Clinical Laboratory*, 59(5-6), 465-474. **(ISI, IF=1)**
21. **Ghafourian, S.**, Sekawi, Z. B., Sadeghifard, N., Mohebi, R., Neela, V. K., Maleki, A., . . . Ranjbar, R. (2011). The prevalence of ESBLs producing klebsiella pneumoniae isolates in some major hospitals, iran. *Open Microbiology Journal*, 5, 91-95. **(PUBMED-SCOPUS)**
22. **Ghafourian, S.**, Soheili, S., Aboualigalehdari, E., Sadeghifard, N., Mohebi, R., Maleki, A., . . . Sekawi, Z. (2014). Differential between multi-drug resistance pattern of extended spectrum  $\beta$ -lactamases producing E. coli and K. pneumoniae. *Journal of Pure and Applied Microbiology*, 8(SPEC. ISS. 1), 85-89. **(ISI, IF=0.05)**
23. **Ghafouryan, S.**, Sadeghifard, N., Neela, V., Mariana, N. S., Mohebi, R., Rahbar, M., . . . Pakzad, I. (2010). Occurrence of klebsiella oxytoca producing extended spectrum beta-lactamases in different seasons in ilam hospitals, iran. *African Journal of Microbiology Research*, 4(22), 2381-2387. **(SCOPUS)**
24. Gholami Parizad, E., Khosravi, A., Gholami Parizad, E., Sadeghifard, N., & **Ghafourian, S.** (2012). Evaluation of chronic hepatitis B infection in patients

- with seronegative HbsAg. *Iranian Journal of Public Health*, 41(2), 100-104. (ISI, IF=0.5)
25. Hosseini, S., Maleki, A., **Ghafourian, S.**, Fadavi, M. R., Valadbeigi, H., Shahmir, P., Sadeghifard, N. (2014). Molecular characterization of AmpC  $\beta$ -lactamases among klebsiella pneumoniae isolated from ilam and tehran hospitals, from iran. *Journal of Pure and Applied Microbiology*, 8(3), 2217-2220. (ISI, IF=0.05)
  26. Khosravi, A., Asadollahy, E., **Ghafourian, S.**, Sadeghifard, N., & Mohebi, R. (2013). Synthesis and evaluation of monoclonal antibody against plasmodium falciparum merozoite surface antigen 2. *Asian Pacific Journal of Tropical Medicine*, 6(10), 798-803. (ISI, IF=0.5)
  27. Khosravi, A., **Ghafourian, S.**, Shamsi, M., Sadeghifard, N., Maleki, A., & Babaahmadi, E. (2012). Cross-reaction between the crude hydatid cyst fluid antigens of human and animals origin in response to human IgG class and subclasses. *Journal of Parasitology Research*, 2012
  28. Maleki, A., **Ghafourian, S.**, Sadeghifard, N., Pakzad, I., Mohebi, R., Hosseini, S., . . . Alihosseini, A. (2012). Multiplex PCR for identification of vibrio cholerae genes. *Journal of Pure and Applied Microbiology*, 6(1), 97-102. (ISI, IF=0.05)
  29. Maleki, A., **Ghafourian, S.**, Sadeghifard, N., Shafiean, M., Hematian, A., Khosravi, M., & Mohebi, R. (2012). Prevalence of intestinal parasitic infections among suspected referred patients to reference laboratory of ilam, west iran. *Journal of Pure and Applied Microbiology*, 6(2), 803-805. (ISI, IF=0.05)
  30. Mohebi, R., **Ghafourian, S.**, Sekawi, Z., Khosravi, A., Galehdari, E. A., Hushmandfar, R., . . . Sadeghifard, N. (2011). In vitro and in vivo antibacterial activity of acorn herbal extract against some gram-negative and gram-positive bacteria. *Roumanian Archives of Microbiology and Immunology*, 70(4), 149-152. (PUBMED)
  31. Mohebi, R., **Ghafourian, S.**, Sekawi, Z., Neela, V., Raftari, M., Aboualigalehdari, E., & Sadeghifard, N. (2012). Extended-spectrum beta-lactamases producing klebsiella species isolated from several major hospitals in iran. *European Journal of Inflammation*, 10(3), 269-278. (ISI, IF=0.99)
  32. Pakzad, I., **Ghafourian, S\***, Taherikalani, M., Sadeghifard, N., Abtahi, H., Rahbar, M., & Jamshidi, N. M. (2011). Qnr prevalence in extended spectrum beta-lactamases (ESBLs) and none- ESBLs producing escherichia coli isolated from urinary tract infections in central of iran. *Iranian Journal of Basic Medical Sciences*, 14(5), 458-464. (ISI, IF=0.5)
  33. Pakzad, I., Hosseinzadehgan, H., Abtahi, H., Taherikalani, M., Jalilian, F. A., Sadeghifard, N., **Ghafourian, s.**, . . . Jamshidzadeh, P. (2013). Human brucellosis in iran: Incidence, complication, diagnosis, treatment and prevention. *Journal of Pure and Applied Microbiology*, 7(2), 1177-1188. (ISI, IF=0.5)
  34. Pakzad, I., Rezaee, A., Rasaei, M. J., Hosseini, A. Z., Tabbaraee, B., **Ghafurian, S.**, . . . Raftari, M. (2010). Novel approach of vaccination against brucella abortus 544 based on a combination of fusion proteins, human serum albumin

and brucella abortus lipopolysaccharides. *Journal of Biological Sciences*, 10(8), 767-772. (scopus)

35. Pakzad, I., Zadegan, H. H., **Ghafurian, S.**, Hematian, A., & Fooladi, A. A. I. (2012). Microbiological pattern and antibiotic susceptibility of isolates from bronchiectasis. *Journal of Pure and Applied Microbiology*, 6(3), 1127-1132. (ISI, IF=0.05)
36. Raftari, M., Azizi Jalilian, F., Abdulmir, A. S., **Ghafurian, S.**, Radu, S., Sekawi, Z., & Abu Bakar, F. (2011). Optimized antibacterial measures against escherichia coli O157:H7 and staphylococcus aureus. *African Journal of Microbiology Research*, 5(20), 3113-3121. (scopus)
37. Raftari, M., **Ghfourian, S.**, & Bakar, F. A. (2013). Metabolic engineering of lactococcus lactis influence of the overproduction of lipase enzyme. *Journal of Dairy Research*, 80(4), 490-495. (ISI, IF=1.5)
38. Raftari, M., **Ghfourian, S.**, Sadeghifard, N., & Abu Bakar, F. (2013). Cloning and overexpression of extracellular elastase from pseudomonas aeruginosa. *European Journal of Inflammation*, 11(1), 55-60. (ISI, IF=0.99)
39. Raftari, M., **Ghfourian, S.**, Sadeghifard, N., Abu Bakar, F., Saari, N., & Sekawi, Z. (2012). Overexpression of recombinant lipase from burkholderia cepacia in escherichia coli. *European Journal of Inflammation*, 10(3), 365-369. (ISI, IF=0.99)
40. Raftari, M., Jalilian, F. A., Abdulmir, A. S., Ghafurian, S., Sekawi, Z., Son, R., & Bakar, F. A. (2012). Antibacterial activity of organic acids on salmonella and listeria. *Asia Life Sciences*, 21(1), 13-30. (ISI, IF=0.2)
41. Sadeghifard, N., **Ghfourian, S.**, Sekawi, Z. B., Neela, V. K., Hematian, A., Pakzad, I., . . . Mohebi, R. (2011). Extended spectrum beta-lactamases among hospitalized patients in surgery wards, ilam, iran. *Journal of Microbial and Biochemical Technology*, 3(1), 18-20. (scopus)
42. Sadeghifard, N., Mohebi, R., Sekawi, Z., **Ghfourian, S\***, Kazemian, H., & Rezaee, M. (2012). Prevalence of hepatitis B virus in chronic hepatitis B patients. *Roumanian Archives of Microbiology and Immunology*, 71(1), 53-55. (PUBMED-SCOPUS)
43. Sadeghifard, N., Ranjbar, R., Zaeimi, J., Alikhani, M. Y., **Ghfourian, S.**, Raftari, M., . . . Bakar, F. A. (2010). Antimicrobial susceptibility, plasmid profiles, and RAPD-PCR typing of acinetobacter bacteria. *Asian Biomedicine*, 4(6), 901-911. (ISI, IF=0.2)
44. Sadeghifard, N., Rasaei, S. Z., **Ghfourian, S\***, Zolfaghary, M. R., Ranjbar, R., Raftari, M., . . . Rahbar, M. (2012). Prevalence of genomic island PAPI-1 in clinical isolates of pseudomonas aeruginosa in iran. *Southeast Asian Journal of Tropical Medicine and Public Health*, 43(2), 431-435. (ISI, IF=0.7)
45. Sadeghifard, N., Seidnazari, T., **Ghfourian, S.**, Soleimani, M., Maleki, A., Qomi, M. A., & Sekawi, Z. (2013). Survey in iran of clarithromycin resistance in helicobacter pylori isolates by PCR-RFLP. *Southeast Asian Journal of Tropical Medicine and Public Health*, 44(1), 89-95. (ISI, IF=0.7)
46. Sadeghifard, N., Valizadeh, A., Zolfaghary, M. R., Maleki, M. H., Maleki, A., Mohebi, R., **Ghfourian, S\***, . . . Khosravi, A. (2012). Relationship between the

- presence of the nalC mutation and multidrug resistance in pseudomonas aeruginosa. *International Journal of Microbiology*, (PUBMED-SCOPUS
47. Saidi, M., **Ghafourian, S.**, Zarin-Abaadi, M., Movahedi, K., & Sadeghifard, N. (2012). In vitro antimicrobial and antioxidant activity of black thyme (*thymbra spicata* L.) essential oils. *Roumanian Archives of Microbiology and Immunology*, 71(2), 61-69. (PUBMED-SCOPUS)
  48. Shakib, P., **Ghafourian, S.**, Goudarzi, G., Ghafarzadeh, M., & Noruzian, H. (2013). Prevalence of listeria monocytogenes in pregnant women in khoram abad, iran. *Journal of Pure and Applied Microbiology*, 7(SPEC. ISS. NOVEMB), 475-477. (ISI, IF=0.05)
  49. Shakib, P., **Ghafourian, S.**, Zolfaghary, M. R., Hushmandfar, R., Ranjbar, R., & Sadeghifard, N. (2012). Prevalence of OmpK35 and OmpK36 porin expression in beta-lactamase and non-beta-lactamase-producing klebsiella pneumoniae. *Biologics: Targets and Therapy*, 6, 1-4. (pubmed-scopus)
  50. Valadbeigi, H., Tabatabaei, R. R., Malek, A., Sekawi, Z., Raftari, M., Parvaneh, K., **Ghafourian, S\***, Sadeghifard, N. (2014). Genomic diversity and virulence genes among clinical isolates of pseudomonas aeruginosa. *Clinical Laboratory*, 60(3), 363-367. (ISI, IF=1)
  51. Maleki A, Pakzad I, Hosseini Sh, Ranjbar R, Purshafie MR, Mohebi R, **Ghafourian S**, Hemateyan A, Sadeghi fard. Frequency Analysis of Genes ctxA, tcpA, Ace and Zot in Vibrio Cholerae Isolated of Epidemy of Summer 2005 in Iran By PCR. Scientific Journal of Ilam University of Medical Sciences 2010
  52. Mohammadi F, Tabaraie B, Sadeghifard N\*, **Ghafoorian S**, Maleki A, Davoodian E, Rahbar M, Mohammadzadeh M. Evaluation of Drug Resistance Frequency Among Entrococci faecium and E. faecalis Strains And Detection of VanA/B Genes in Vancomycin Resistance Isolated By PCR Method in Ilam And Kermanshah Hospitals. Scientific Journal of Ilam University of Medical Sciences 2011
  53. Hossein Kazemian , Aref Shavalipour, Reza Mohebi, **Sobhan Ghafurian** , Saeed Aslani , Abbas Maleki , Jalil Kardan , Hamid Heidari , Nourkhoda Sadeghifard. Estimation of the Parasitic Infection Prevalence in Children With Helicobacter pylori Infection in Ilam City (2012-2013). Arch Pediatr Infect Dis. 2014 January; 2(1):e15294
  54. Pakzad I, Bahmani S, **Ghafouryan S**, Hosainzadegan H. Diagnosis of human brucellosis by PCR using l7/l12 and 16srRNA genes compared with common serological tests. Arak Medical University Journal 2012, 14(6, Suppl 3): 31-39
  55. Afra Khosravi, Morteza Shamsi, Noorkhoda Sadeghifard and **Ghafourian Sobhan**. Evaluation of mice, sheep and human IgG and IgE antibody responses against the mice Crude Hydatid Cyst Fluid (HCF) antigens. Journal of Cell and Animal Biology Vol. 6(5), pp. 66-72, 15 March, 2012
  56. Valizadeh A, Sadeghifard N\*, Zolfaghary M.R , Maleki A, **Ghafourian S**, Shakib P. Study of Mutation Frequency in PA3721 Gene among Producing and Non-producing ESBLs Pseudomonas aeruginosa Strains by PCR method. Scientific Journal of Ilam University of Medical Sciences 2012



57. Sadeghifard N, Salari M.H\*, Ranjbar R, **Ghafouryan S**, Raftari M, Abdulmir A.S, Fatimah A.B5, Kazemi B. The clinical and environmental spread and diversity of toxigenic *Clostridium difficile* diarrhea in the region of the Middle East. RIF 1(4):180-187 (2010)

### **Books**

**Sobhan Ghafourian:** Toxin - Antitoxin systems and Virulence Genes in *Enterococcus faecium*. 04/2014; LAMBERT Academic Publishing., ISBN: 978-3659517129

**Sobhan Ghafourian:** Antibacterial Activity Of Organic Acids On The Growth Of Selected Bacteria In Meat Samples. 06/2011; LAMBERT Academic Publishing., ISBN: 978-3844383942

**Sobhan Ghafourian:** Molecular characterization of ESBL producing *Klebsiella* SPP isolates. 04/2011; LAP LAMBERT Academic Publishing., ISBN: 978-3844317312