



Curriculum Vitae

Nourkhoda Sadeghifard , Ph.D
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- **Sadeghifard, N.**, et al. 1997. Comparison of rapid urease test, histopathology, and culture for detection of *H. pylori* in dyspeptic patients. *Journal of Ilam University of Medical sciences*, 5: 15-19.
- 2- **Sadeghifard, N.**, et al. 2000. Prevalence of Gastroenteritis due to Verotoxigenic *E.coli* in Ilam, Iran. *Journal of Ilam University of Medical sciences*, 8: 29-34.
- 3- **Sadeghifard, N.** 1999. A study on *H.pylori* infections in Ilam, Iran. *Journal of Ilam university of Medical sciences*, 7: 17-22.
- 4- **Sadeghifard, N.**, et al .2002. Isolation, Verotoxin assay, and Serogrouping of Verotoxigenic *E.coli* in Ilam, Iran. *Journal of Shahid Sadoughi University of Medical Sciences*, 10:54-58.
- 5- **Sadeghifard, N.**, et al. 2005. Evaluation of methods for detection of toxigenic *Clostridium difficile* in stool specimens . *Pakistan Journal of Biological Sciences*, 8(9): 1256-1260.
- 6- Shirazi, MH., Ranjbar, R., Hemati, F., **Sadeghifard, N.** 2005. Bacterial Infections in Renal Transplant Recipients. *Iranian J Publ Health*. 34 (3): 62-66.
- 7- **Sadeghifard, N.**, et al. 2005. Prevalence of *C.difficile* - associated diarrhea in Hospitalized patients with nosocomial diarrhea in Tehran University of Medical Sciences Hospitals- Iran . *Iranian Journal of Public Health*. 34 (4): 67-72.
- 8- Shirzi, MH., **Sadeghifard, N.**, et al. 2006. Incidence of Asymptomatic Bacteriuria during Pregnancy. *Pakistan Journal of Biological Sciences*. 9(1):151-154.
- 9- **Sadeghifard, N.**, et al. 2006. A Long-Period Survey on Nosocomial infections in

- Ilam University hospitals, Iran. Pakistan Journal of Biological Sciences. 9(3): 534-539.
- 10- Rostamzad A, **Sadeghifard N.**, et al. 2006. Comparison of different laboratory routine methods with adenosine deaminase test for diagnosis of tuberculous pericarditis in two teaching hospitals, Tehran, Iran. Pakistan Journal of Biological Sciences, 9 (14): 2712-2715.
 - 11- **Sadeghifard N**, et al. 2006. Comparison of Different Laboratory Methods for Diagnosis of *Helicobacter pylori*. Journal of Biological Sciences, 6(6):1141-1144.
 - 12- **Sadeghifard N**, et al. 2006. The Mosaic Nature of Intergenic 16S-23S rRNA Spacer Regions Suggests rRNA Operon Copy Number Variation in *Clostridium difficile* Strains. Applied and Environmental Microbiology, 72 (11).7311-7323.
 - 13- M. Haghi-Ashteiani, **N. Sadeghifard**, et al. 2007. Etiology and antimicrobial resistance of Bacterial Urinary tract infections in children's Medical center, Tehran, Iran. Acta Medica Iranica, 45(2): 153-157.
 - 14- MH Shirazi, R Ranjbar , A Ghasemi, S Paktarigh , **N Sadeghifard** , et al. 2007. A Survey of Bacterial Infections in Bone Marrow Transplant Recipients. Iranian J Publ Health, 36 (3): 77-81.
 - 15- **Sadeghifard N**, et al. 2006. A Study of Antimicrobial Resistance of *Acinetobacter Baumannii* and Non-*Acinetobacter Baumannii* Strains Isolated from Three Hospitals in Tehran. Journal of Ilam University of Medical sciences, 14 (3): 29-34.
 - 16- **Sadeghifard N**, et al.2006. A study on Contamination of *E.coli* and *S.aureus* in raw milk in Ilam during 1999-2003. Journal of Ilam University of Medical sciences, 14 (1): 29-34.
 - 17- Shirazi MH, Ghasemi AB, Khorammizadeh MR, Daryani NE, Hosseini ME, **Sadeghifard N**. 2006. A Study of CagA Gene in *Helicobacter Pylori* Strains Isolated from Patients with NUD, Peptic Ulcer and Gastric Cancer by PCR method. Journal of Ilam University of Medical sciences, 14 (3): 22-28.
 - 18- Reza Ranjbar, Aurora Aleo, Giovanni M Giammanco, Anna Maria Dionisi, **Nourkhoda Sadeghifard**, et al. 2007. Genetic relatedness among isolates of *Shigella sonnei* carrying class 2 integrons in Tehran, Iran, 2002–2003. BMC Infectious Diseases, 7:62 .
 - 19- R. Ranjbar, E. Salimkhani, **N.Sadeghifard**, et al. 2007. An outbreak of Gastroenteritis of unknown origin in Tehran, July 2003. Pakistan Journal of Biological Sciences, 10 (7): 1138-1140.
 - 20- M.H. Shirazi, R.Ranjbar, S.Eshraghi, G.Sadeghi, N.Jonaidi, N. Bazzaz, M.Izadi, **N.Sadeghifard**. 2007. An evaluation of antibacterial activity of *Glycyrrhiza glabra* extract on the growth of *Salmonella*, *Shigella* and *ETEC E.coli*. Journal of Biological Sciences, 7 (5): 827-829.
 - 21- M.Y. Alikhani, **N.Sadeghifard**, et al. 2007. Evaluation of selective and nonselective media for isolation of *Helicobacter pylori* from gastric biopsy specimens. Pakistan Journal of Biological Sciences, 10 (22): 4156-4159.
 - 22- Pourshafie MR, Bakhshi B, Ranjbar R, Sedaghat M, **Sadeghifard N**, et al. 2007. Dissemination of a single *Vibrio cholerae* clone in cholera outbreaks during 2005 in Iran. J Med Microbiol, 56(Pt 12):1615-9.

- 23- M.H. Shirazi, R.Ranjbar, M.H.Salari, Y. Bagheri- Tirtash , A.Najafi, N.Sadeghifard. 2007. Isolation of *Vibrio paraheamolyticus* from fish in Tehran and their antimicrobial resistance. Iranian Journal of Infectious Diseases and Tropical Medicine, 11 (35): 65-68.
- 24- M.M. Soltan Dallal , M.H. Shirazi , R. Ranjbar , M.H. Salari , M. Jamshidifar , **N. Sadeghifard**. 2007. Isolation and identification of *Bacillus cereus* from various food samples. Iranian Journal of Infectious Diseases and Tropical Medicine, 12 (37): 25-28.
- 25- M.H. Shirazi , R. Ranjbar , E. Daneshyar , S. Sadeghian, **N. Sadeghifard**. 2007. Urinary tract pathogens in asymptomatic Bacteriuria and their antimicrobial resistance in pregnant women in Hamedan. Iranian Journal of Infectious Diseases and Tropical Medicine, 12 (36): 53-58.
- 26- R Ranjbar, **N Sadeghifard**, et al.2007. Antimicrobial Susceptibility and AP-PCR Typing of *Acinetobacter* Spp. Strains. Iranian J Publ Health, 36 (4): 50-56.
- 27- MT Haghiashteiiani , S Mohammadi-Yeganeh , S Soroush , **N Sadeghifard** , et al. 2008. Frequency and Antimicrobial Susceptibility of Haemophilus influenzae Type b Isolated from Children Suspected to Meningitis. Iranian J Publ Health, 37 (4): 52-58
- 28- Setareh Soroush, Mohammad Taghi Haghi-Ashtiani, Morovat Taheri-Kalani, Mohammad Emameini, Marzieh Aligholi,**Nourkhoda Sadeghifard**, et al. 2009. Antimicrobial Resistance of Nosocomial Strain of Acinetobacter baumannii in Children's Medical Center of Tehran: A 6-Year Prospective Study. Acta Medica Iranica, 48(3): 178-184.
- 29- R Ranjbar, MR Pourshafie , N Sadeghifard, et al. 2008. Molecular Characterization of Epidemic Isolates of Vibrio cholerae O1 by Arbitrarily primed PCR (AP-PCR). Iranian J Publ Health, 37 (2): 83-87.
- 30- MH Salari, N Badami, **N Sadeghifard**, et al. 2008. Investigation of Various Tissue Culture Monolayers Sensitivity in Detection of Clostridium difficile Toxin Iranian J Publ Health, 37 (1): 99-102.
- 31- Reza Ranjbar, **Nourkhoda Sadeghifard**, et al. 2009. Evaluation of a PCR based approach to study the relatedness among Shigella sonnei strains. Iranian Journal of Clinical Infectious Diseases, 4(3):163-166.
- 32- Feizabadi MM, Fathollahzadeh B, Taherikalani M, Rasoolinejad M, **Sadeghifard N**, et al. 2008. Antimicrobial susceptibility patterns and distribution of blaOXA genes among Acinetobacter spp. Isolated from patients at Tehran hospitals. Jpn J Infect Dis, 61(4):274-8.

Published paper 2010

- 33- **Norakhoda Sadeghifard**, et al.2010. The Incidence of Nosocomial Toxigenic Clostridium difficile Associated Diarrhea in Tehran Tertiary Medical Centers. Acta Medica Iranica, 48(5): 320-325.
- 34- Tanaz, Alipour, **Nourkhoda, Sadeghifard**,et al. 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.
- 35- **Nourkhoda Sadeghifarda**, et al. 2010. Antimicrobial susceptibility, plasmid

- profiles, and RAPD-PCR typing of *Acinetobacter bacteria*. *Asian Biomedicine*, 4 (6); 901-911.
- 36- **Sadeghifard N**, et al. 2010. The clinical and environmental spread and diversity of toxigenic *Clostridium difficile* diarrheain the region of the Middle East. *RIF* 1(4):180-187 .
- 37- Sobhan Ghafouryan, **Nourkhoda Sadeghifard**, et al. 2010. Occurrence of *Klebsiella oxytoca* producing extended spectrum beta-lactamases in different seasons in Ilam Hospitals, Iran. *African Journal of Microbiology Research*, 4(22) pp. 2381-2387.
38. **Nourkhoda Sadeghifard**, et al. 2010. The Incidence of Nosocomial Toxigenic *Clostridium difficile* Associated Diarrhea in Tehran Tertiary Medical Centers. *Acta Medica Iranica*, Vol. 48, No. 5.pp 320-25.
39. Setareh Soroush, Mohammad Taghi Haghi-Ashtiani, Morovat Taheri-Kalani, Mohammad Emaneini, Marzieh Aligholi, **Nourkhoda Sadeghifard**, et al. 2010. Antimicrobial Resistance of Nosocomial Strain of *Acinetobacter baumannii* in Children's Medical Center of Tehran: A 6-Year Prospective Study. *Acta Medica Iranica*, Vol. 48, No. 3. Pp 178-184.
40. Sobhan Ghafourian, **Nourkhoda Sadeghifard**, et al. 2010. Antimicrobial Pattern and Clonal Dissemination of Extended-Spectrum Beta-Lactamase Producing *Klebsiella Spp* Isolates. *American Journal of Infectious Diseases* 6 (4): 110-121.
41. Maleki A, Pakzad I, Hosseini Sh, Ranjbar R, Purshafie M, Mohebi R, Ghafo'urian S, Hemateyan A, **Sadeghi fard N***. 2010. 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*. 18(4).pp 1-6.

Published paper 2011

42. MOROVAT TAHERIKALANI, ABBAS MALEKI, **NOURKHODA SADEGHIFARD**, et al. 2011. Dissemination of Class 1, 2 and 3 Integrons among Different Multidrug Resistant Isolates of *Acinetobacter baumannii* in Tehran Hospitals, Iran. *Polish Journal of Microbiology*, Vol. 60, No 2, 169–174.
43. Sobhan Ghafourian, Zamberi bin Sekawi, **Nourkhoda Sadeghifard**, et al.2011. The Prevalence of Extended-Spectrum beta-lactamases producing isolates of *Klebsiella pneumoniae* in some major hospitals, Iran. *The open microbiology journal*, 5, 91-95.
44. Ghafourian , S., **Sadeghifard, N.**, Sekawi, Z., Neela, V.K., Shamsudin,. M.N., et al. 2011. Phenotypic and Genotypic assay for detection of extended spectrum β -lactamases production by *Klebsiella pneumoniae* isolated in Emam Reza hospital in Tabriz, Iran. *Journal of pure and applied microbiology*, 5(1), p. 01-10.
45. Maleki, A., Ghafourian , N., Ghafourian , S., Pakzad , I., **Sadeghifard, N.**, et al. 2011. Evaluation of an Immunocapture-Agglutination Test (Brucellacapt) for Serodiagnosis of Human Brucellosis, Ilam, Iran. *World journal of fish and marine sciences* 3 (3): 243-246.
46. Pakzad, I., Ghafourian, S*, Taheri, M., **Sadeghifard N**, et al. 2011. qnr Prevalence in ESBLs and none-ESBLs *E.coli* isolated from Urinary Tract Infections in Milad Hospital in Tehran, Iran. *Iranian Journal of Basic Medical Sciences*, 14(5).

47. Reza Mohebi, Sobhan Ghafourian , Zamberi Sekawi, Afra Khosravi, Elham Abouali Galehdari, Reza Hushmandfar, Reza Ranjbar, Abbas Maleki, Mona Mohammadzadeh6, Mohammad Rahbar, **Nourkhoda Sadeghifard***. 2011. *In vitro* and *in vivo* antibacterial activity of acorn herbal extract against some gram-negative and gram-positive bacteria. Romanian archive of microbiology and immunology.70 (4). 149-152.
48. Sobhan Ghafourian, Reza mohebi, Afra khosravi, Abbas Maleki, Abdolah Davoodian and **Nourkhoda Sadeghifard***. 2011. Detection of Hepatitis B Virus DNA by Real-Time PCR in Chronic Hepatitis B Patients, Ilam, Iran. Middle-East Journal of Scientific Research. 2011; Volume 9 Number (4).pp 478-480.
49. Mohammadi F, Tabaraie B, **Sadeghifard N***, et al. 2011. Evaluation of Drug Resistance Frequency Among *Enterococcus 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. 19 (2). Pp 1-7.
50. Gholami parizad E, Gholami Parizad ES, **Sadeghifard N**, Amiri Andi S..2011. Investigation of HBV-DNA in Individuals With Seronegative HBsAg Indicators By Real-Time PCR in Ilam(western Iran). Scientific Journal Ilam University of Medical Sciences. 19 (1). Pp 32-37.
51. Valadbeigi H1, **Sadeghifard N***, et al. 2011. A Study on The Frequency of Toxin A, Alginate Genes, And of Clinical *Pseudomonas aeruginosa* Strains. Scientific Journal Ilam University of Medical Sciences. 20 (1). Pp 58-63.
52. Reza Ranjbar, naghumi Ali, Yousefi Soheila, Farshad Shohreh, Lamera Behzad, Abedini Mina, Haghiashtiani Taghi, Mirsaeedghazee Farzaneh, Ezadi Morteza, Jonaydijafari Nemat, Panahi Younes, **Sadeghifard N**. 2011. Detection of Isolates of *Salmonella enteritica* Resistance to Extended Spectrum Beta Lactamases. Iranian Journal of infection disease and tropical medicine. 16 (53). Pp 29-34.
53. **Sadeghifard N**, et al. 2011. Extended Spectrum Beta-Lactamases Among Hospitalized Patients in Surgery Wards, Ilam, Iran. J Microbial Biochem Technol. Volume 3(1): 018-020.
54. Amir Ghasemi, Ali Hatef Salmanian, **Nourkhoda Sadeghifard**, et al. 2011. Cloning, expression and purification of *Pwo* polymerase from *Pyrococcus woesei*. Iranian journal of microbiology. Volume 3 Number 3.pp 118-122.

Published papers 2012

55. Abbas Maleki, Sobhan Ghafourian, **Nourkhoda Sadeghifard**, et al. 2012. Multiplex PCR for Identification of *Vibrio cholerae* Genes. JOURNAL OF PURE AND APPLIED MICROBIOLOGY. Vol. 6(1), p. 97-102.
56. Afra Khosravi, Morteza Shamsi, **Noorkhoda Sadeghifard**, et al. 2012. 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.

57. Ghafourian , S., **Sadeghifard, N***, Sekawi, Z., Neela, V.K., Shamsudin,. M.N., et al. 2012. Incidence of extended spectrum beta-lactamase producing *Klebsiella pneumoniae* from patients with Urinary Tract Infection. Sao Paulo Medical Journal. 130(1):37-43
58. Shakib, P., Ghafourian, S., zolfaghari, M.R., Hushmandfar R., **Sadeghifard, N***. 2012. Prevalence of OmpK35 and OmpK36 porin expression in beta-lactamase and non-betalactamase- producing *Klebsiella pneumonia*. Biologics: Targets and Therapy.
59. Khosravi, A., Ghafourian , S., **Sadeghifard, N***. 2012. Cross reaction between the crude hydatid cyst fluid (HCF) antigens of human and animal (mice, sheep, cattle) origin in response to human IgG class and subclasses. Journal of Parasitology Research. Volume 2012, Article ID 947948. doi:10.1155/2012/947948.
60. **Sadeghifard, N**, et al. 2012. Prevalence of PAPI-1 in clinical isolates of *Pseudomonas aeruginosa*. The Southeast Asian Journal of Tropical Medicine and Public Health. Vol 43 No. 2. Pp 431-435.
- 61 **Sadeghifard N**, et al. 2012. Relationship between the Presence of the nalCMutation and Multidrug Resistance in *Pseudomonas aeruginosa*. International Journal of Microbiology. Volume 2012, 575193, 3 pages .
62. Ghafourian S, Mohebi R, Sekawi Z, Raftari M, Neela V, Ghafourian E, Aboualigalehdari E, Rahbar M, **Sadeghifard N**. Effect of tannin extract against *Pseudomonas aeruginosa* producing metallo beta-lactamase. J Biol Regul Homeost Agents. 2012; 26(2):231-6.
- 63. Sadeghifard N**, Mohebi R, Sekawi Z, Ghafourian S, Kazemian H, Rezaee M. Prevalence of hepatitis B virus in chronic hepatitis B patients. Roum Arch Microbiol Immunol. 2012 ;71(1):53-5.
64. Saidi M, Ghafourian S, Zarin-Abaadi M, Movahedi K, **Sadeghifard N**. in vitro antimicrobial and antioxidant activity of black thyme (*Thymbra spicata* L.) essential oils. Roum Arch Microbiol Immunol. 2012;71(2):61-9.
65. Mohebi, R.; Ghafourian, S.; Sekawi, Z.; **Sadeghifard N**. EXTENDED-SPECTRUM BETA-LACTAMASES PRODUCING KLEBSIELLA SPECIES ISOLATED FROM SEVERAL MAJOR HOSPITALS IN IRAN . EUROPEAN JOURNAL OF INFLAMMATION. 2012; Volume: 10 Issue: 3 Pages: 269-278.
66. Raftari, M.; Ghafourian, S.; **Sadeghifard, N.**; et al. OVEREXPRESSION OF RECOMBINANT LIPASE FROM BURKHOLDERIA CEPACIA IN ESCHERICHIA COLI . EUROPEAN JOURNAL OF INFLAMMATION. 2012; Volume: 10 Issue: 3 Pages: 365-369.
67. Maleki, Abbas; Ghafourian, Sobhan; **Sadeghifard, Nourkhoda**; et al. Prevalence of Intestinal Parasitic Infections among Suspected Referred Patients to Reference Laboratory of Ilam, West Iran . JOURNAL OF PURE AND APPLIED MICROBIOLOGY. 2012; Volume: 6 Issue: 2 Pages: 803-805.

68. Ranjbar R, Sarshar M, **Sadeghifard N**. Characterization of Genetic Diversity among Clinical Strains of Salmonella enteric Serovar Infantis by Ribotyping Method . Scientific Journal of Zanjan University of Medical Sciences, 2012. Volum 20 , number 81: 75-84.

69. *E Gholami Pariza, A Khosravi2, E Gholami Parizad, N Sadeghifard. 2012. Evaluation of Chronic Hepatitis B Infection in Patients with Seronegative HbsAg. Iranian J Publ Health, Vol. 41, No.2, Feb 2012, pp.100-104.*

70- Valizadeh A, Sadeghifard N*, et al. Study of Mutation Frequency in PA3721 Gene among Producing and Non-producing ESBLs Pseudomonas aeruginosa Strains by PCR method. Scientific Journal Ilam University of Medical Sciences. 20 (2). Pp 38-43.

Published papers 2013 :

71. Ghafourian S, Raftari M, **Sadeghifard N**, Sekawi Z. Toxin-antitoxin Systems: Classification, Biological Function and Application in Biotechnology. Curr Issues Mol Biol. 2013; 16(1):9-14.

72.**Sadeghifard N**, Seidnazari T, Ghafourian S, Soleimani M, Maleki A, Qomi MA, Sekawi Z. Survey in Iran of clarithromycin resistance in Helicobacter pylori isolates by PCR-RFLP. Southeast Asian J Trop Med Public Health. 2013;44(1):89-95.

73. Raftari, M.; Ghafourian, S.; **Sadeghifard, N.**; et al. CLONING AND OVEREXPRESSION OF EXTRACELLULAR ELASTASE FROM PSEUDOMONAS AERUGINOSA . EUROPEAN JOURNAL OF INFLAMMATION. 2013; Volume: 11 Issue: 1 Pages: 55-60.

74. Ranjbar, R, Ghazi, F.M., Farshad, S., Giammanco, G.M., Aleo, A., Owlia, P., Jonaidi, N., **Sadeghifard, N.**, et al. The occurrence of extended-spectrum β -lactamase producing Shigella spp. in Tehran, Iran. Iranian Journal of Microbiology. 2013; Volume 5, Issue 2, 2013, Pages 108-112.

75. Sarshar, M., Ranjbar, R. , Shahrokhi, N., **Sadeghifard, N.**, et al. Detection of Escherichia coli, Salmonella enterica and shigella Dysenteriae by analysis of 23s ribosomal DNA gene. Journal of Isfahan Medical School. 2013; Volume 30, Issue 219 : Pages 2333-2343.

76. Ghafourian S, Mohebi R, Rezaei M, Raftari M, Sekawi Z, Kazemian H, Mohseni A, Karimi S, Sadeghifard N. Comparative analysis of biofilm development among MRSA and MSSA strains. Roum Arch Microbiol Immunol. 2012 ;71(4):175-82.

77. Afra Khosravi, Eghbaleh Asadollahy, Sobhan Ghafourian, **Nourkhoda Sadeghifard**. Synthesis and evaluation of monoclonal antibody against Plasmodium falciparum merozoite surface antigen 2. Asian Pacific Journal of Tropical Medicine 2013; 798-803

78- **Javad Alizadeh, Reza Ranjbar, Mehdi Kamali, Nima Farhadi, Amin Davari, Nourkhoda Sadeghifard**. Cloning of Vibrio cholerae outer membrane protein W in Pichia pastoris. Iranian Journal of Microbiology. 2013; Volume 5 Number 3: 252-258