

Curriculum Vitae

(Mohammad Yousef Alikhani)



Personal Information:

Last Name:	Alikhani
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Birth Place:	Bijar, Iran
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Educational Background

- **BSc. Laboratory Sciences** “Department of Laboratory Sciences, Azad University of Tabriz, Tabriz, Iran, I.R.” [1991].
- **MSc. Medical Microbiology** “Department of Microbiology, Institute Pasteur of Iran, Tehran, Iran, I.R” [2000].
- **PhD. Medical Microbiology** “ Department of Microbiology, School of Medicine, Tehran University of Medical Science, Tehran, Iran, I.R.” [2006].

Language Skills

- *English*

Selected Course and Workshops Attended

- **Scientific Writing (Primary to Advance):** “Tehran University of Medical Sciences, Tehran, Iran, I.R.” [2004]
- **Research Methodology:** “Tehran University of Medical Sciences, Tehran, Iran, I.R.” [2004-5]
- **PCR methods and Plasmid Profiling:** “Tehran University of Medical Sciences, Tehran, Iran, I.R.” [2005]
- **Teaching Skills:** “Tehran University of Medical Sciences, Tehran, Iran, I.R.” [2005]
- **Molecular Typing of bacteria and PFGE typing:** “Tehran University of Medical Sciences, Tehran, Iran, I.R.” [2005]
- **DNA Labeling, RNA Labeling & Hybridization:** “Tehran University of Medical Sciences, Tehran, Iran, I.R.” [2005]

Job Experiences

- **Faculty Member:** “Hamadan University of Medical Sciences, Hamadan, Iran, I.R.” [since 2000]
- **Head of Medical Microbiology Department:** “Hamadan University of Medical Sciences, Hamadan, Iran, I.R.” [2007-2009]
- **Head of Medical Microbiology Department:** “Hamadan University of Medical Sciences, Hamadan, Iran, I.R.” [since 2015]
- **Manager of Research:** “Hamadan University of Medical Sciences, Hamadan, Iran, I.R. “ [since 2011-2015]

Teaching Experiences

- **Practical Medical Microbiology for Medical Students:** “Tehran University of Medical Sciences, Tehran, Iran, I.R.” [2003-6]
- **Medical Microbiology for Medical/Paramedical & Nursing Students:** “Hamadan University of Medical Sciences, Hamadan, Iran, I.R.” [Since 2006]
- **Practical Medical Microbiology for Medical/Para-medical & Nursing Students:** “Hamadan University of Medical Sciences, Hamadan, Iran, I.R.” [Since 2006]
- **Physiology & Structure of bacteria for MSc Students:** “Hamadan University of Medical Sciences, Hamadan, Iran, I.R.” [since 2006]
- **Genetics of bacteria for MSc and PhD Students of medical microbiology:** “Hamadan University of Medical Sciences, Hamadan, Iran, I.R.” [since 2006]

- **Antimicrobial & Disinfectants for MSc and PhD Students of medical microbiology:** “Hamadan University of Medical Sciences, Hamadan, Iran, I.R.” [since 2006]
- **Interaction between microorganisms & host for MSc Students:** “Hamadan University of Medical Sciences, Hamadan, Iran, I.R.” [Since 2006]
- **Systematic bacteriology for MSc Students of medical microbiology:** “Hamadan University of Medical Sciences, Hamadan, Iran, I.R.” [since 2006]
- **Practical bacteriology for MSc and PhD Students of medical microbiology:** “Hamadan University of Medical Sciences, Hamadan, Iran, I.R.” [since 2006]
- **Medical Microbiology for PhD Students:** “Hamadan University of Medical Sciences, Hamadan, Iran, I.R.” [since 2013]

Selected Awards & Achievements

- **Top Province Researcher:** “ Throughout a Hamadan Province Selection” [2011]
- **Top University Researcher:** “ Throughout Hamadan University of Medical Sciences Researcher Selection” [2010]
- **Top University Researcher:** “Throughout Hamadan University of Medical Sciences Researcher Selection” [2013]
- **Top University Researcher:** “Throughout Hamadan University of Medical Sciences Researcher Selection” [2014]

- **Top Province Researcher: “ Throughout a Hamadan Province Selection” [2017]**
- **Top University Researcher: “Throughout Hamadan University of Medical Sciences Researcher Selection” [2017]**

Memberships

- **Member of Iranian Society of Microbiology (ISM) [since 2005]**
- **Member of Hamadan University of Medical Sciences Research Council [Since 2011]**
- **Member of Hamadan Medical School Research Council [Since 2007]**
- **Member of Editorial Board of Journal of Hamadan University of Medical Sciences [since 2010]**
- **Editor-in-Chief of Avicenna Journal of Clinical Microbiology and Infection (AJCMI), Hamadan University of Medical Sciences [since 2014]**
- **Member of Hamadan University of Medical Sciences Publication Committee [Since 2011]**
- **Member of 10th National Congress of Microbiology Scientific Committee, Ilam, Iran, I.R. [2009]**
- **Member of 11th International Congress of Microbiology Scientific Committee, Kermanshah, Iran, I.R. [2010]**
- **Member of 12th International Congress of Microbiology Scientific Committee, Ardabil, Iran, I.R. [2011]**
- **Member of 13th International Congress of Microbiology Scientific Committee, Gilan, Iran, I.R. [2012]**

- **Member of 14th International Congress of Microbiology Scientific Committee, Tehran, Iran, I.R. [2013]**
- **Member of 15th International Congress of Microbiology Scientific Committee, Tehran, Iran, I.R. [2014]**
- **Member of 16th International Congress of Microbiology Scientific Committee, Tehran, Iran, I.R. [2015]**

Published papers in domestic and International Journals

- Momtaz, H.E., Moradkhani, S., **Alikhani, MY.**, Esnaashari, F., Afkhami, M. Study of antimicrobial effect of some plants of Lamiaceae family on Escherichia coli species isolated from children with urinary tract infection. **Journal of Renal Injury Prevention**. 2019
- Zarei, O., Shokoohizadeh, L., Hossainpour, H., **Alikhani, MY.** Molecular analysis of Pseudomonas aeruginosa isolated from clinical, environmental and cockroach sources by ERIC-PCR. **BMC Research Notes**. 2018
- Kamarehei, F., Khabiri, A., Saidijam, M., Soleimani, M., **Alikhani, MY.** Designing a novel ELISA method based on CagA, NapA recombinant antigens to increase sensitivity and specificity of Helicobacter pylori whole cell antigen detection. **Gastroenterology and Hepatology from Bed to Bench**. 2018
- Keramat, F., **Alikhani, MY.**, Poorolajal, J., Akbari, S. Comparison of serum level of 25(OH) vitamin D3 in brucellosis patients with healthy persons in Hamadan, west of Iran. **Journal of Infection in Developing Countries**. 2018
- Bouzari, S., Farhang, E., Hosseini, S.M., **Alikhani, MY.** Prevalence and antimicrobial resistance of shiga toxin-producing escherichia coli and enteropathogenic escherichia coli isolated from patients with acute diarrhea. **Iranian Journal of Microbiology**. 2018
- Zanganeh, N., Siahpoushi, E., Kheiripour, Goodarzi, M.T., **Alikhani, MY.** Brucellosis Causes Alteration in Trace Elements and Oxidative Stress Factors. **Biological Trace Element Research**. 2018
- Bahmani, N., Hashemi, S.H., Arabestani, M.R., Keramat, F., **Alikhani, MY.** Molecular typing of Brucella species isolated from humans and animals using polymerase chain

reaction-restriction fragment length polymorphism technique. **Archives of Clinical Infectious Diseases**. 2018

- Arabestani, M.R., Rastiyani, S., **Alikhani, MY.**, Mousavi, S.F. The relationship between prevalence of antibiotics resistance and virulence factors genes of MRSA and MSSA strains isolated from clinical samples, west Iran. **Oman Medical Journal**. 2018
- Majlesi, A., Kakhki, R.K., Mozaffari Nejad, A.S., Abazari, M., **Alikhani, MY.** Detection of plasmid-mediated quinolone resistance in clinical isolates of Enterobacteriaceae strains in Hamadan, West of Iran. **Saudi Journal of Biological Sciences**. 2018
- Daneshyar, F., Khamverdi, Z., Toliat, T., **Alikhani, MY.** Effect of green tea varnish on depth of root caries. **Journal of Contemporary Dental Practice**. 2018
- Mahmoudi, H., Bahador, A., Pourhajibagher, M., **Alikhani, MY.** Antimicrobial photodynamic therapy: An effective alternative approach to control bacterial infections. **Journal of Lasers in Medical Sciences**. 2018
- Shokoohi, R., Torkshavand, Z., Zolghadnasab, H., **Alikhani, MY.**, Hemmat, M.S. Study of the efficiency of moving bed biofilm reactor (MBBR) in LAS Anionic Detergent removal from hospital wastewater: Determination of removing model according to response surface methodology (RSM). **Water Science and Technology**. 2018
- Saadat, S., Sajadi, M.M., **Alikhani, MY.**, Rikhtegaran Tehrani, Z., Yousefi Mashouf, R. Production of a chimeric protein and its potential application in sero-diagnosis of Mycoplasma hominis infection. **Journal of Microbiological Methods**. 2018
- Moradi, F., Mashouf, R.Y., **Alikhani, MY.**, Saadat, S., Ghaderkhani, J. Comparison of PCR and culture methods to determine the prevalence of mycoplasma hominis in woman's endocervical samples referred to infertility center of hamadan fatemieh hospital in 2016. **Iranian Journal of Obstetrics, Gynecology and Infertility**. 2018
- Bardbari, A.M., Arabestani, M.R., Karami, M., **Alikhani, MY.**, Bagheri, K.P. Highly synergistic activity of melittin with imipenem and colistin in biofilm inhibition against multidrug-resistant strong biofilm producer strains of acinetobacter baumannii. **European Journal of Clinical Microbiology and Infectious Diseases**. 2018
- Karami, P., Mohajeri, P., Yousefi Mashouf, R., Dastan, D., **Alikhani, MY.** Molecular characterization of clinical and environmental Pseudomonas aeruginosa isolated in a burn center. **Saudi Journal of Biological Sciences**. 2018
- Karami, P., Bazmamoun, H., Sedighi, I., Aslani, M.M., **Alikhani, MY.** Antibacterial resistance patterns of extended spectrum β -lactamase -producing enteropathogenic Escherichia coli strains isolated from children. **Arab Journal of Gastroenterology**. 2017

- Bardbari, A.M., Arabestani, M.R., Karami, M., **Alikhani, MY**, Bagheri, K.P. Correlation between ability of biofilm formation with their responsible genes and MDR patterns in clinical and environmental *Acinetobacter baumannii* isolates. **Microbial Pathogenesis**. 2017
- Boluki, E., Kazemian, H., Peeridogaheh, H., **Alikhani, MY**, Beytollahi, L., Ghorbanzadeh, R. Antimicrobial activity of photodynamic therapy in combination with colistin against a pan-drug resistant *Acinetobacter baumannii* isolated from burn patient. **Photodiagnosis and Photodynamic Therapy**. 2017
- Shahcheraghi, F., Aslani, M.M., Mahmoudi, H., Bahador, A., **Alikhani, MY**. Molecular study of carbapenemase genes in clinical isolates of Enterobacteriaceae resistant to carbapenems and determining their clonal relationship using pulsed-field gel electrophoresis. **Journal of Medical Microbiology**. 2017: 66(5): 570-576
- Yarahmadi, Z., Baharlouei, J., Shokoohi, R., **Alikhani, MY**, Shirmohammadi-Khorram, N. The efficiency of *Lolium perenne* for phytoremediation of anthracene in polluted soils in the presence of *Bacillus aerophilus*. **Petroleum Science and Technology**. 2017: 35(7), pp. 647-652
- Nazari, M., Mahrabi, T., Hosseini, S.M., **Alikhani, MY**. Bacterial contamination of adult house flies (*Musca domestica*) and sensitivity of these bacteria to various antibiotics, captured from Hamadan City, Iran. **Journal of Clinical and Diagnostic Research**. 2017: 11(4), pp. DC04-DC07
- Mahmoudi, H., Arabestani, M.R., Mousavi, S.F., **Alikhani, MY**. Molecular analysis of the coagulase gene in clinical and nasal carrier isolates of methicillin-resistant *Staphylococcus aureus* by restriction fragment length polymorphism. **Journal of Global Antimicrobial Resistance**. 2017: 8, pp. 41-45
- Hoseini, N., Sedighi, I., Nejad, A.S.M., **Alikhani, MY**. Phenotypic and genotypic detection of ampc enzymes in clinical isolates of *Escherichia coli* and *Klebsiella pneumoniae*. **Journal of Krishna Institute of Medical Sciences University**. 2017: 6(3), pp. 10-18
- Torkaman Asadi, F., Hashemi, S.H., **Yousef Alikhani, M.**, Moghimbeigi, A., Naseri, Z. Clinical and diagnostic aspects of brucellosis and antimicrobial susceptibility of brucella isolates in Hamedan, Iran. **Japanese Journal of Infectious Diseases**. 2017: 70(3), pp. 235-238

- Hajiahmadi, F., Ghale, E.S., **Alikhani, MY.**, Mordadi, A., Arabestani, M.R. Detection of integrons and staphylococcal cassette chromosome mec types in clinical methicillin-resistant coagulase negative staphylococci strains. **Osong Public Health and Research Perspectives**. 2017: 8(1), pp. 47-53
- Kavyani, B., **Alikhani, MY.**, Arabestani, M.R., Moradkhani, S., Taheri, M. The effect of garlic extract on the expression of genes elastase and exotoxin A in *Pseudomonas aeruginosa*. **Tehran University Medical Journal**. 2016: 74(8), pp. 584-590
- Sedighi, I., Mozaffari Nejad, A.S., Amanati, A., Nakhaei, S., **Alikhani, MY.** Virulence factors and antibiotic resistance in uropathogenic and commensal *Escherichia coli* isolates. **Journal of Krishna Institute of Medical Sciences University**. 2016: 5(4), pp. 50-57
- Naseri, Z., **Alikhani, MY.**, Hashemi, S.H., Kamarehei, F., Arabestani, M.R. Prevalence of the most common virulence-associated genes among *Brucella melitensis* isolates from human blood cultures in Hamadan province, west of Iran. **Iranian Journal of Medical Sciences**. 2016: 41(5), pp. 422-429
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- **Alikhani, MY.**, Shahcheraghi, F., Khodaparast, S., (...), Moghadam, M.K., Mousavi, S.F. Molecular characterisation of *Klebsiella oxytoca* strains isolated from patients with antibiotic-associated diarrhea. **Arab Journal of Gastroenterology**. 2016: 17(2), pp. 95-101
- Tabibnejad, M., Alikhani, MY., Arjomandzadegan, M., Hashemi, S.H., Naseri, Z. The optimization of molecular detection of clinical isolates of brucella in blood cultures by *eryD* transcriptase gene for confirmation of culture-negative samples. **Iranian Red Crescent Medical Journal**. 2016: 18(4),e23879
- Taherikalani, M., Mohammadzad, M.R., Soroush, S., Monjezi, A., **Alikhani, MY.** 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), pp. 104-109
- Kazemi, S., Saidijam, M., Hashemi, S.H., Vaisi-Raygani, A., Alikhani, M.Y. Analysis of IL-10 and IL-6 Gene Polymorphisms and Their Serum Levels in Patients with Brucellosis: A Case Control Study. **Immunological Investigations**. 2016: 45(2), pp. 107-115

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- Mamani M., Nobari N., **Alikhani MY**., Poorolajal J. Antibacterial susceptibility of Escherichia coli among outpatients with community-acquired urinary tract infection in Hamadan, Iran. **Journal of Global Antimicrobial Resistance**. 2015
- Sayehmiri F., Kiani F., Sayehmiri K., Taherikalani M., **Alikhani MY**. Prevalence of caga and vaca among helicobacter pylori-infected patients in iran: A systematic review and meta-analysis. **Journal of Infection in Developing Countries**. 2015
- Sedighi I., **Alikhani MY**., Ramezani S., Nazari M., Nejad ASM. Bacterial contamination of mobile phones of health care providers in a teaching hospital in Hamadan Province, Iran. **Archives of Clinical Infectious Diseases**. 2015
- **Alikhani MY**, TZ KARIMI, F Mihani, E Kalantar, P Karami, M Sadeghi. Antimicrobial Resistance Patterns and Prevalence of blaPER-1 and blaVEB-1 Genes Among ESBL-producing Pseudomonas aeruginosa Isolates in West of Iran. **Jundishapur Journal of Microbiology**. 2014; 6 (3): 248-251
- Yousefi Mashouf R, R Esmaeili, **MY Alikhani**, M Ghanbari. Evaluation of exotoxin a gene and frequency of polymerase chain reaction sensitivity in detection of pseudomonas aeruginosa isolated from burn patients. **Tehran University Medical Journal**. 2014; 72 (3): 167-173
- Kasraei S, L Sami, S Hendi, **MY AliKhani**, L Rezaei-Soufi, Z Khamverdi. Antibacterial properties of composite resins incorporating silver and zinc oxide nanoparticles on Streptococcus mutans and Lactobacillus. **Restorative dentistry & endodontics**. 2014; 39 (2): 109-114
- Esmaeili R, R Yousefi Mashouf, A Moshtaghi, **M Alikhani**. Frequency and Detection of Antibiotic-Resistance Patterns in Bacteria Isolated from Children. **Medical Laboratory Journal**. 2014; 7 (5): 57-64
- Roointan Amir,Shabab Noushin,Rahmani Ali Reza, Karimi Jamshid, **Alikhani Mohammad Yousef** and Saidijam Massoud. Bioinformaticand phylogenetic analysisof merR gene to determine thereasons for their different sensitivity to mercury. **Int J Med Invest** 2014; vol 3; num 1; 13-17

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- Khodaparast S, S Fazlollah Mousavi, F Shahcheraghi, **MY Alikhani***. The Role of *Klebsiella Oxytoca* in Antibiotic-Associated Colitis and Determination of Antibiotic-Sensitivity Pattern in Clinical Isolates. **Journal of Isfahan Medical School**. 2013; 31 (238)
- Ahmadi-Motamayel F, L Rezaei-Soufi, L Kiani, **MY Alikhani**, J Poorolajal Effects of honey, glucose, and fructose on the enamel demineralization depth. **Journal of Dental Sciences**. 2013; 8 (2): 147-150
- Farajnia S, F Azhari, **MY Alikhani**, MK Hosseini, A Peymani, N Sohrabi. Prevalence of PER and VEB Type Extended Spectrum Betalactamases among Multidrug Resistant *Acinetobacter baumannii* Isolates in North-West of Iran. **Iranian journal of basic medical sciences**. 2013; 16 (6): 751
- Safari M, M Saidijam, A Bahador, R Jafari, **MY Alikhani***. High Prevalence of Multidrug Resistance and Metallo-beta-lactamase (MβL) producing *Acinetobacter Baumannii* Isolated from Patients in ICU Wards, Hamadan, Iran. **Journal of research in health sciences**. 2013; 13 (2): 162-167
- Kalantar E, **Alikhani MY**, MH Naseri, V Torabi. Antibiotic resistance patterns of STEC and ETEC strains: a study on frozen foods of animal origin and children with acute diarrhea. **J Microbiol Infect Dis**. 2013; 3 (1): 31-35
- **Alikhani MY**, SH Hashemi, MM Aslani, S Farajnia. Prevalence and antibiotic resistance patterns of diarrheagenic *Escherichia coli* isolated from adolescents and adults in Hamedan, Western Iran. **Iranian journal of microbiology**. 2013; 5 (1): 42
- Abbasi M, MM Aslani, E Mostafavi, **M Yousef Alikhani**. Determination of Adhesion Virulence Factors of Enteropathogenic *Escherichia coli* (eaeA-, bfpA-) Isolates from Asymptomatic Individuals Compared to those with Diarrhea. **Modares Journal of Medical Sciences: Pathobiology**. 2013; 15 (4): 99-108
- Zamani A, RY Mashouf, AME Namvar, **MY Alikhani**. Detection of magA Gene in *Klebsiella* spp. Isolated from Clinical Samples. **Detection of magA. Iranian journal of basic medical sciences**. 2013; 16 (2): 173
- Hoseinzadeh E, MR Samarghandie, SA Ghiasian, **MY Alikhani**. Evaluation of Bioaerosols in Five Educational Hospitals Wards Air in Hamedan, During 2011-2012. **Jundishapur Journal of Microbiology**. 2013; 6 (6):

- **Alikhani MY**, SH Hashemi, Z Naseri, S Farajnia, H Peeri-Dogaheh. Diagnosis of Human Brucellosis by Blood Culture (BACTEC) and PCR Method via Whole Blood and Serum. **Jundishapur Journal of Microbiology**. 2013; 6 (3): 248-251
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- Majlesi A, MS Khorasani, AR Khalilian, MM Aslani, M Jaefari, **MY Alikhani***. Antibiotic Susceptibility of Helicobacter pylori Clinical Isolates in Hamadan, West of Iran. **Int J Entric Pathog**. 2013; 1 (1)
- Hoseinzadeh E, **MY Alikhani**, MR Samarghandi, M Shirzad-Siboni. Antimicrobial potential of synthesized zinc oxide nanoparticles against gram positive and gram negative bacteria. **Desalination and Water Treatment**. 2013; 1-8
- Fatemeh Ahmadi – Motamayel, Seyedeh Sare Hendi, **Mohammad Yusof Alikhani**, Zahra Khamverdi. Antibacterial Activity of Honey on Cariogenic Bacteria. **Journal of Dentistry**, Tehran University of Medical Sciences, Tehran. 2013; Vol. 10, No.1: 10-15.
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- Hoseinzadeh E, MR Samargandi, **MY Alikhani**, G Roshanaei, G Asgari. Antimicrobial Efficacy of Zinc Oxide Nanoparticles Suspension Against Gram Negative and Gram Positive Bacteria. **Iranian Journal of Health and Environment**. 2012; 5 (3), 331-342
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- **Alikhani MY**, I Sedighi, A Zamani, MM Aslani, T Sadrosadat. Incidence of diarrhoeagenic Escherichia coli isolated from young children with diarrhea in the west of Iran. **Acta microbiologica et immunologica Hungarica**. 2012; 59 (3), 367-374
- Kiaie S, H Abtahi, G Mosayebi, **MY Alikhani**. Expression of Recombinant Protein B Subunit Pili from Vibrio Cholera. **Journal of Kerman University of Medical Sciences**. 2012; 19 (4), 337-344

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- Hoseinzadeh E, MR Samargandi, **MY Alikhani**, H Godini, Sensitivity Coefficient and Death Kinetics of *Escherichia Coli* and *Staphylococcus Aureus* to Zinc Oxide and Copper Oxide Nanoparticles. **Journal of Isfahan Medical School**. 2012; 30 (200):1143-1153.
- Khosro Sardarian, Mehrdad Hajilooi, Amirhosein Maghsood, Abbas Moghimbeigi, **Mohamad yusef Alikhani**. A Study of The Genetic Variability of *Blastocystis hominis* Isolates in Hamadan, West of Iran. **Jundishapur J Microbiol**. 2012;5(4):555-559
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- **Mohammad Yousef Alikhani**, Hossein Masoumi Asl, Maryam Khairkhah, Safar Farajnia, Mohammad Mehdi Aslani. Phenotypic and genotypic characterization of *Escherichia Coli* O111 serotypes. **Gastroenterology and Hepatology from Bed to Bench**. 2011;4(3):147-152
- Mohammad Mehdi Aslani, **Mohammad Yousef Alikhani***, Ali Zavari, Rasol Yousefi, Ali Reza Zamani. Characterization of enteroaggregative *Escherichia coli* (EAEC) clinical isolates and their antibiotic resistance pattern. **International Journal of Infectious Diseases** 15 (2011) e136–e139
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