In The Name Of God
Curriculum vitae (CV)

Name: Mohammad Reza Arabestani
Date of Birth: 1/6/1977
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Marital Status: Married

My Research ID:

https://www.scopus.com/authid/detail.uri?authorId=35344357000
https://pubmed.ncbi.nlm.nih.gov/?term=arabestani
WOS&SID=F4araPHp2dvss2W8lAJ&search_mode=GeneralSearch&prID=c953ebaa-9a5f-45e1-bfbb-5b932e4bda51

Metrics overview in the Scopus
Documents by author: 118

Citations by *776* **documents**: 966

H-index*:* 16

Academic Rank: Professor in Medical Bacteriology
Address: Dep. of Medical Microbiology School of Medicine Hamadan/Iran, Brucellosis Research Center, School of Medicine Hamadan/Iran **Email:** mr.arabestani@umsh.ac.ir
Scopus Author ID: 35344357000

Education:
Ph.D.: Medical Bacteriology Isfahan-Iran (2007-2012)
M.Sc. Medical Microbiology- Pasteur Institute of Iran (2002-2004)
B.S: veterinary laboratory science-Uremia University (1997-2001)

Scholarships course: Italy, 2012

Membership:

The vice chancellor of microbiology department (2013-2020)

Head of brilliant talent department (2013-2015)

Brucellosis Research Center, Hamadan-Iran (2014-2022)

Infectious disease Research Center, Hamadan-Iran

(2022-Continue)

Nutrition Health Research Center, Hamadan-Iran (2017-
continue)

Dean Deputy Research of School of Medicine
Hamadan/Iran (2020-2022)

Head of core facility Laboratory of research and technology (2022- continue)

Member of I.D.F Microbiology Committee (2006)
Member of Iranian Microbiology Society (2007)
Member of Iranian Bacteriology Society (2009)

Member of Medical Council, I.R. IRAN (2013)

Thesis title:
Ph.D.: Diagnostic evaluation of a multiplex PCR for identification of the most common bacterial pathogens in septicemia in comparison with the classical blood culture
M.Sc.: The Comparison of Microbial Culture and PCR-ELISA Methods in detection of cell line to Mycoplasma. In Pasteur Institution of Iran (2003)
Course: Got three months scholarship in Italy – Bologna (2012)

Selected Awards & Achievements:

1- Top University Researcher: "Throughout Hamadan University of Medical Sciences Researcher Selection" [2019]
2- Top University Researcher: "Throughout Hamadan University of Medical Sciences Researcher Selection" [2018]
3- Top University Researcher: "Throughout Hamadan University of Medical Sciences Researcher Selection" [2017]
4- 2- Top University Researcher: "Throughout Hamadan University of Medical Sciences Researcher Selection" [2016]
5- Top University Researcher: "Throughout Hamadan University of Medical Sciences Researcher Selection" [2015]
6- Top University Researcher: "Hamadan University of Medical Sciences Researcher Selection" [2014]
7- Top University Education Professor: "Throughout Hamadan University of Medical Sciences Education Professor Selection" [2014]

National Patent

1- Production of liposomal vancomycin on skin infections caused by methicillin-resistant *Staphylococcus aureus.*
2- Fabrication of nanoparticles containing lysostaphin enzyme attached to vancomycin-containing liposomes for the effective treatment of skin infections caused by methicillin-resistant *Staphylococcus aureus*

3- Production of recombinant lysostaphin using cloning system pBAD

4- Production process of Chromium sensing polypeptide causing programmed death *from Staphylococcus aureus* as a broad spectrum antibiotic against multi-antibiotic resistant bacteria.

5- Solid lipid nanoparticles with doxycycline for the treatment of Malta fever

Congress and Seminar:

1- The national congress of Brucellosis in Human and Livestock in Iran-Hamadan (October 2018).

2- The 18th Iranian clinical microbiology congress in Iran-Tehran (August 2017)
3-The 21st Iranian Congress on Infectious Disease and Tropical Medicine in Iran-Tehran (19-23 Jan.2013)
4- The 5 th International Congress of Laboratory and Clinic in Iran-Tehran (14-18 Jan.2013)
5- The 1 th Iranian International Congress of Medical Bacteriology in Iran-Tabriz (2011)
6- The 11 th Iranian microbiology congress and 1 th Eastern Mediteranian infectious disease in Iran- Guilan (2010) 7- The 4th Iranian clinical microbiology congress in Iran – Isfahan
(2010)
8- Bioinformatics and primer designing, Stem cell research and SABZ biomedical company- Tehran- Iran (2010)
9- Probiotic Congress at Azad University in Tehran- Iran (2010)
10- Hepatitis C congress in Isfahan (2010)
11- Real Time PCR Workshop- Isfahan University (2009)
12-The 9th Iranian microbiology congress in Iran – Kerman (2008
13- Real Time PCR in diagnostic of Bordetella pertusis- Pasteur Institution of Iran (2008)
14- The Mycobacterium and Mycobacterium diagnostic in laboratory – Pasteur Institution of Iran (2008)
15-The Mycoplasma diagnostic methods in laboratory- Pasteur Institute of Iran (2008)
16-Seminal Markers of Chlamydia- Tehran University (2007)
17- The pathogenic Neisseria: The Interplay between Physiology and pathogenesis-Tehran University (2007)
18- The World day of Rabies- Pasteur Institute of Iran (2007)
19-The laboratory Quality Control Management to ISO-IEC 17025 Isfahan (2004)
20- The ISO 9000 Standard in Isfahan (2004)
21-The 6 Sigma, the EFQM and the 5 S Golpayegan (2005) 22-The Botulism Intoxication- Pasteur Institute of Iran (2002)

Experience:

1- Bioinformatics and primer designing
2- Scientific Writing
3-DNA extraction (with different manual and automated methods, including the method used for the SeptiFast)
4- Health Technology Assessment study on the evaluation of the "presepsin method" (PATHFAST, Mitsubishi) for the early detection of sepsis
5- Expert in multiplex real time PCR LightCycler® SeptiFast for rapid detection and differentiation of 25 bacterial and fungal pathogens from whole blood samples
6- Blood culture technique by bactec 9040 (automated blood culture) in Isfahan
7- Expert in Molecular Diagnostic Of bacteria (PCR, PCR-ELISA, RFLP, Real Time PCR, Ribotybing)
8- Expert in Real Time PCR in Diagnosis of Infectious Pathogens

9- Pass Training Course of an Introduction to Basic Methods in Biotechnology
10- Pass Training Course of Rapid diagnostic of bacteria with Bactract 4300
11- Pass Training Course of SPSS Software
12-The Comparison of Coliforms Diagnostic Standard Method and Chrome agar Media
13-Pass training course of TBA19 (Tetra Bricke Aseptic)
14-To have experience with U.H.T- CIP system
15- To have experience with U.H.T processing
16-Stablishment of Microbial and Chemical U.H.T Laboratory

Papers:

1- Co-Delivery of Doxycycline and Hydroxychloroquine Using CdTe-Labeled Solid Lipid Nanoparticles for Treatment of Acute and Chronic Brucellosis. Seyed Mostafa Hosseini , Abbas Farmany , Mohammad Yousef Alikhani , Mohammad Taheri , Sara Soleimani Asl , Saeed Alamian , Mohammad Reza Arabestani. Front Chem. 2022 May 11; 10:890252. doi: 10.3389/fchem.2022.890252. eCollection 2022. (ISI: IF: 6.5). Correspondence author **(Q1)**

2- Graphene-Based Materials for Inhibition of Wound Infection and Accelerating Wound Healing. Shariati A, Hosseini SM, Chegini Z, Seifalian A, Arabestani MR.Biomed Pharmacother. 2023 Feb;158:114184. doi: 10.1016/j.biopha.2022.114184. (ISI: IF: 7.45). Correspondence author **(Q1)**

3- Use of the quantum dot-labeled solid lipid nanoparticles for delivery of streptomycin and hydroxychloroquine: A new therapeutic approach for treatment of intracellular Brucella abortus infection. Karimitabar Z, Chegini Z, Shokoohizadeh L, Moez NM, Arabestani MR, Hosseini SM.Biomed Pharmacother. 2023 Feb;158:114116. doi: 10.1016/j.biopha.2022.114116. (ISI: IF: 7.45). Correspondence author **(Q1)**

4- Relationship of OqxAB efflux pump to antibiotic resistance, mainly fluoroquinolones in Klebsiella pneumoniae, isolated from hospitalized patients. Amereh F, Arabestani MR, Shokoohizadeh L.Iran J Basic Med Sci. 2023 Jan;26(1):93-98. doi: 10.22038/IJBMS.2022.67095.14714. (ISI: IF: 2.45).

5- The effect of nisin on the biofilm production, antimicrobial susceptibility and biofilm formation of Staphylococcus aureus and Pseudomonas aeruginosa. Parnia Ghapanvari, Mohammad Taheri, Farid Aziz Jalilian, Sanaz Dehbashi, Aram Asareh Zadegan Dezfuli, Mohammad Reza Arabestani. European Journal of Medical Research volume 27, Article number: 173 (2022). (ISI: IF: 4.98). Correspondence author

6- Molecular epidemiology and collaboration of siderophore-based iron acquisition with surface adhesion in hypervirulent Pseudomonas aeruginosa isolates from wound infections. Tahmasebi, H., Dehbashi, S., Nasaj, M., Arabestani, M.R. Scientific Reportsthis , 2022, 12(1), 7791. (ISI: IF: 4.99). Correspondence author **(Q1)**

7- Nano drug delivery in intracellular bacterial infection treatments Seyed Mostafa Hosseini , Mohammad Taheri , Fatemeh Nouri , Abbas Farmani , Narjes Morovati Moez , Mohammad Reza Arabestani. Biomed Pharmacother. 2022 Feb; 146:112609. doi: 10.1016/j.biopha.2021.112609. Epub 2021 Dec 28. (ISI: IF: 704). Correspondence author **(Q1)**

8- The role of Bordetella pertussis in the development of multiple sclerosis Mohammad Mahdi Majzoobi , Mohammad Reza Macvandi , Hamidreza Ghasemi Basir , Zahra Sanaei , Shahir Mazaheri , Maryam Afza , Mohammad Reza Arabestani. BMC Neurol. 2022 Mar 1;22(1):70. doi: 10.1186/s12883-022-02606-4. (ISI: IF: 2.95). Correspondence author

9- Codelivery of Doxycycline and Hydroxychloroquine toTreatment of Brucellosis: An Animal StudySeyed Mostafa Hosseini , Abbas Farmany, Mohammad Yousef Alikhani, Mohammad Taheri, Sara Soleimani Asl, Saeed Alamian, Masoumeh Asgari, Mohammad Reza Arabestan. Journal of NanomaterialsVolume 2022, Article ID 4064925, 9 pageshttps://doi.org/10.1155/2022/4064925. (ISI: IF: 3.7). Correspondence author

10- Optimization and development of high-resolution melting curve analysis (HRMA) assay for detection of New Delhi metallo-β-lactamase (NDM) producing *Pseudomonas aeruginosa*. Sanaz Dehbashi, Hamed Tahmasebi, Mohammad Yousef Alikhani, Fariba Keramat Mohammad Reza Arabestani. AIMS Microbiology, 8(2): 178–192. DOI: 10.3934/microbiol.2022015. (ISI: IF: 1). Correspondence author

11- Characterization of *Staphylococcus aureus* isolates from pasry samples by rep-PCR and phage typing Mohammad Reza Arabesani, Farideh Kamarehei, Mahya Dini, Farid Aziz Jalilian, Abbas Moradi, Leili Shokoohizadeh. IRAN. J. MICROBIOL. Volume 14 Number 1 (February 2022) 1-10. (ISI: First author)

12- Development of Chitosan-Assisted Fe3O4@SiO2 Magnetic Nanostructures Functionalized with Nisin as a Topical Combating System against Vancomycin-Intermediate Staphylococcus aureus (VISA) Skin Wound Infection in Mice Mona Nasaj, Abbas Farmany, Leili Shokoohizadeh, Farid Aziz Jalilian, Reza Mahjoub, Ghodratollah Roshanaei, Alireza Nourian, Omid Heydari Shayesteh, Mohammad Reza Arabestani. Journal of Nanomaterials Volume 2022, Article ID 2914210, 17 pages https://doi.org/10.1155/2022/2914210. (ISI: IF: 3.7). Correspondence author

13- Detection of bla OXA-145, bla OXA-224, bla OXA-539, and bla OXA-675 Genes and Carbapenem-Hydrolyzing Class D β -Lactamases (CHDLs) in Clinical Isolates of Pseudomonas aeruginosa Collected from West of Iran, Hamadan Sezadehghani, A., Dehbashi, S., Tahmasebi, H., Arabestani, M.R. International Journal of Microbiologythis link is disabled, 2022, 2022, 3841161. (ISI: Correspondence author)

14- Antibiotic resistance alters through iron-regulating Sigma factors during the interaction of Staphylococcus aureus and Pseudomonas aeruginosa. Tahmasebi, Hamed; Dehbashi, Sanaz; Arabestani, Mohammad Reza. SCIENTIFIC REPORTS. 2021, 11(1): 1850. (ISI: IF: 4.36). Correspondence author **(Q1)**

15- Regulation of virulence and β-lactamase gene expression in Staphylococcus aureus isolates: cooperation of two-component systems in bloodstream superbugs Dehbashi, S., Tahmasebi, H., Zeyni, B., Arabestani, M.R. BMC Microbiology, 2021, 21(1), 192. (ISI: IF: 3.6). Correspondence author.

16- The inhibitory effects of Staphylococcus aureus on the antibiotic susceptibility and virulence factors of Pseudomonas aeruginosa: A549 cell line model. Dehbashi, S., Alikhani, .Y, Tahmasebi, H., Arabestani, M.R. AMB Express, 2021, 11(1), 50. (ISI: IF: 3.2). Correspondence author.

17- Comparison of Different Phenotypic Tests versus PCR in the Detection of Carbapenemase-Producing Pseudomonas aeruginosa Isolates in Hamadan, Iran. Beig, M., Taheri, M., Arabestani, M.R. International Journal of Microbiology, 2021, 2021, 5582615. (ISI). Correspondence author.

18- Analysis of phenotypic and genotypic methods for determining the biofilm-forming abilities of CoNS isolates: Association with hemolysin production and the bacterial insertion sequence elements IS256/257. Nasaj, M., Hosseini, S.M., Saeidi, Z., Tahmasebi, H., Arabestani, M.R. Gene Reports, 2021, 23, 101036 (ISI). Correspondence author.

19- A Comprehensive Study of the Relationship between the Production of β -Lactamase Enzymes and Iron/Siderophore Uptake Regulatory Genes in Clinical Isolates of Acinetobacter baumannii. Porbaran, M., Tahmasebi, H., Arabestani, M. International Journal of Microbiology, 2021, 2021, 5565537. (ISI). Correspondence author.

20- Prevalence and molecular typing of Metallo-β-lactamase-producing Pseudomonas aeruginosa with adhesion factors: A descriptive analysis of burn wounds isolates from Iran. Tahmasebi, H., Dehbashi, S., Alikhani, M.Y., Porbaran, M., Arabestani, M.R. Gene Reports, 2020, 21, 100853. (ISI). Correspondence author.

21- Serum level of vitamin D, CRP and biochemical parameter in acute and chronic brucellosis treated with doxycycline-loaded solid lipid nanoparticles. Hosseini, S.M., Abbasalipourkabir, R., Jalilian, F.A., Roshanaei, G., Arabestani, M.R. Gene Reports, 2020, 21, 100940. (ISI). Correspondence author.

22- Co-harboring of mcr-1 and β-lactamase genes in Pseudomonas aeruginosa by high-resolution melting curve analysis (HRMA): Molecular typing of superbug strains in bloodstream infections (BSI). Tahmasebi, H., Dehbashi, S., Arabestani, M.R. Infection, Genetics and Evolution, 2020, 85, 104518. (ISI: IF: 2.44). Correspondence author.

23- The effect of Staphylococcus aureus on the antibiotic resistance and pathogenicity of Pseudomonas aeruginosa based on crc gene as a metabolism regulator: An in vitro wound model study Dehbashi, S., Pourmand, M.R., Alikhani, M.Y., Asl, S.S., Arabestani, M.R. Infection, Genetics and Evolution, 2020, 85, 104509. (ISI: IF: 2.44). Correspondence author.

24- Prevalence and distribution of resistance and enterotoxins/enterotoxin-like genes in different clinical isolates of coagulase-negative Staphylococcus. Nasaj, M., Saeidi, Z., Tahmasebi, H., Dehbashi, S., Arabestani, M.R. European Journal of Medical Research, 2020, 25(1), 48. (ISI: IF: 1.85). Correspondence author.

25- Expression of MexAB-OprM efflux pump and OprD porin in carbapenemase producing Pseudomonas aeruginosa clinical isolates. Beig, M., Taheri, M., Arabestani, M.R. Gene Reports, 2020, 20, 100744. (ISI). Correspondence author.

26- Coordination of las regulated virulence factors with Multidrug-Resistant and extensively drug-resistant in superbug strains of P. aeruginosa. Dehbashi, S., Pourmand, M.R., Alikhani, M.Y., Asl, S.S., Arabestani, M.R. Molecular Biology Reports, 2020, 47(6), pp. 4131–4143. (ISI: IF:1.45). Correspondence author.

27- Molecular typing of multi-drug resistant Acinetobacter baumannii isolates from clinical and environmental specimens in three Iranian hospitals by pulsed field gel electrophoresis. Mohammadi Bardbari, A., Mohajeri, P., Arabestani, M.R.,Khodavirdipour, A., Alikhani, M.Y. BMC Microbiology, 2020, 20(1), 101. (ISI: IF: 2.98).

28- New approach to identify colistin-resistant Pseudomonas aeruginosa by high-resolution melting curve analysis assay. Tahmasebi, H., Dehbashi, S., Arabestani, M.R. Letters in Applied Microbiology, 2020, 70(4), pp. 290–299. (ISI: IF: 2.17). Correspondence author.

29- The bactericidal effect of lysostaphin coupled with liposomal vancomycin as a dual combating system applied directly on methicillin-resistant Staphylococcus aureus infected skin wounds in mice. Hajiahmadi F, Alikhani MY, Shariatifar H, Arabestani MR, Ahmadvand D. Int J Nanomedicine. 2019 Jul 29; 14:59435955. doi: 10.2147/IJN.S214521. eCollection 2019. (ISI: IF: 5.12). Correspondence author.

30- Effect of Doxycycline-Loaded Solid Lipid Nanoparticles on Serum Level of Trace Elements, Biochemical and Hematological Parameters in Acute and Chronic Brucellosis. Hosseini SM, Farmany A, Arabestani MR. Biol Trace Elem Res. 2019 Jul 11. doi: 10.1007/s12011-019-01798-0. (ISI: IF: 2.56). Correspondence author.

31- The Clinical Utility of Analysis High Resolution Melting Curve Assay for Simultaneous Identification of Methicillin and Mupirocin Resistant in Coagulase-Negative Staphylococci. Sanaz Dehbashi, Hamed Tahmasebi, Mohammad R. Arabestani. Clin. Lab. 2019; 65: (ISI: IF: 1.2). Correspondence author.

32- Doxycycline-encapsulated solid lipid nanoparticles as promising tool against Brucella melitensis enclosed in macrophage: a pharmacodynamics study on J774A.1 cell line. Hosseini1 SM, Abbasalipourkabir R, Azizi Jalilian F, Soleimani Asl S, Farmany A, Roshanaei GH, Arabestani MR. Antimicrobial Resistance and Infection Control. 2019 (8): 62. doi.org/10.1186/s13756-019-0504-8.(ISI: IF: 3.56) .Correspondence author. **(Q1)**

33- Comparison of PCR-RFLP and PFGE for determining the clonality of Brucella isolates from human and livestock specimens. Bahmani N, Mirnejad R, Arabestani MR, Mohajerie P, Hashemi SH, Karami M, Alikhani MY. Saudi J Biol Sci. 2019 Feb;26(2):256-262. doi: 10.1016/j.sjbs.2017.08.017. Epub 2017 Aug 26. (ISI: IF: 3.56)

34- Improved antibacterial function of Rifampicinloaded solid lipid nanoparticles on Brucella abortus. Ghaderkhani J, Yousefimashouf R, Arabestani MR, Roshanaei GH, Soleimani Asl S, Abbasalipourkabir R. Artificial Cells, Nanomedicine, and Biotechnology. 47:1, 1181-1193, DOI:10.1080/21691401.2019.1593858. (ISI: IF: 3.02)

35- Role and Function of KPC and MBL Enzymes in Increasing the Pathogenicity of Pseudomonas Aeruginosa Isolated from Burn Wounds H. Tahmasebi, F. Maleki, S. Dehbashi, M.R. Arabestani. J Babol Univ Med Sci 21; 2019. P:127-134. (SCOPUS). Correspondence author.

36- Association between the accessory gene regulator (agr) locus and the presence of superantigen genes in clinical isolates of methicillin-resistant Staphylococcus aureus. Tahmasebi H, Dehbashi S, Arabestani MR. BMC Res Notes (2019) 12:130. . doi.org/10.1186/s13104-019-4166-7. (Pubmed). Correspondence author.

37- Design of Melting Curve Analysis (MCA) by Real-Time Polymerase Chain Reaction Assay for RapidDistinction of Staphylococci and Antibiotic Resistance. Heydari N, Alikhani MY, Tahmasebi H,Asghari B, Arabestani MR. Arch Clin Infect Dis. 2019 April; 14(2):e81604. (ISI: IF: 0. 5).Correspondence author.

38- The Effect of Cinnamon Bark on the Expression of Quorum Sensing System and Virulence Genes in Pseudomonas aeruginosa Strain PAO1. Kavyani B, Arabestani MR, Mozaffari Nejad AS, Moradkhani Sh, Kamarehei F, Taheri M, Alikhani MY. Research Journal of Biotechnology. 2019 (14): 42-47 (ISI).

39- Determination of virulence determinants of Escherichia coli strains isolated from patients with colorectal cancer compared to the healthy subjects. Zarei O, Arabestani MR, Majlesi A, Mohammadi Y, Alikhani MY. Gastroenterology and Hepatology From Bed to Bench. 2019;12(1):52-59. (Pubmed).

40- The Relationship Between Prevalence of Antibiotics Resistance and Virulence Factors Genes of MRSA and MSSA Strains Isolated from Clinical Samples, West Iran. Arabestani MR, Rastiyani S, Alikhani MY, Mousavi SF. Oman Med J. 2018 Mar;33(2):134-140. doi: 10.5001/omj.2018.25. (Pubmed). Correspondence author.

41- Highly synergistic activity of melittin with imipenem and colistin in biofilm inhibition against multidrug-resistant strong biofilm producer strains of Acinetobacter baumannii. Bardbari AM, Arabestani MR, Karami M, Keramat F, Aghazadeh H, Alikhani MY, Bagheri KP. Eur J Clin Microbiol Infect Dis. 2018 Mar;37(3):443-454. doi: 10.1007/s10096-018-3189-7. Epub 2018 Jan 20. (ISI: IF: 2.5)

42- Correlation between ability of biofilm formation with their responsible genes and MDR patterns in clinical and environmental Acinetobacter baumannii isolates.Bardbari AM, Arabestani MR, Karami M, Keramat F, Alikhani MY, Bagheri KP.Microb Pathog. 2017 Jul; 108:122-128. doi: 10.1016/j.micpath.2017.04.039. Epub 2017 Apr 27. (ISI: IF:2.2)

43- Detection of Integrons and Staphylococcal Cassette Chromosome mec Types in Clinical Methicillinresistant Coagulase Negative Staphylococci Strains. Hajiahmadi F, Ghale ES, Alikhani MY, Mordadi A, Arabestani MR. Osong Public Health Res Perspect. 2017 Feb;8(1):47-53. doi: 10.24171/j.phrp.2017.8.1.06. Epub 2017 Feb 28. (Pubmed). Correspondence author.

44- Antibiogram of bacteria isolated from automated teller machines in Hamadan, West Iran.Mahmoudi H, Arabestani MR, Alikhani MY, Sedighi I, Kohan HF, Molavi M.GMS Hyg Infect Control. 2017 Feb 2;12:Doc03. doi: 10.3205/dgkh000288. eCollection 2017. (ISI)

45- Correlation between Infective Factors and Antibiotic Resistance in Enterococci Clinical Isolates in West of Iran.Arabestani MR, Nasaj M, Mousavi SM. Chonnam Med J. 2017 Jan;53(1):56-63. doi: 10.4068/cmj.2017.53.1.56. Epub 2017 Jan 25. (Pubmed). Correspondence author.

46- High Resolution Melting Curve Analysis Method for Detecting of Carbapenemases Producing Pseudomonas aeruginosa By: Tahmasebi, Hamed; Dehbashi, Sanaz; Arabestani, Mohammad Reza. Journal of Krishna Institute of Medical Sciences University.Volume: 7 Issue: 4 Pages: 70-77 Published: OCTDEC 2018(ISI). Correspondence author.

47- Molecular Typing of Brucella Species Isolated from Humans and Animals Using Polymerase Chain Reaction-Restriction Fragment Length Polymorphism Technique By: Bahmani, Nasrin; Hashemi, Seyed Hamid; Arabestani, Mohammad Reza; et al. ARCHIVES OF CLINICAL INFECTIOUS DISEASES Volume: 13 Issue: 2 Article Number: e59305 Published: APR 2018. (ISI: IF: 3.2)

48- The pattern of antibiotic resistance of common bacteria causing nosocomial infections By: Yaghoobi, Mojtaba Hedayat; Arabestani, Mohammad Reza; Karami, Pezhman; et al. WORLD FAMILY MEDICINE Volume: 16 Issue: 3 Pages: 172-178 Published: MAR 2018 (ISI)

49- Isolation and identification of new strains of crude oil degrading bacteria from Kharg Island, IranBy: Godini, Kazem; Samarghandi, Mohamad Reza; Zafari, Doustmorad; Mohammad Reza Arabestani et al.PETROLEUM SCIENCE AND TECHNOLOGY Volume: 36 Issue: 12 Pages: 869-874 Published: 2018. (ISI, IF:.098). Correspondence author.

50- Bioremediation of actual soil samples with high levels of crude oil using a bacterial consortium isolated from two polluted sites: Investigation of the survival of the bacteria MR Samarghandi, MR Arabestani, D Zafari, AR Rahmani, A Afkhami, Global Nest Journal 20 (2), 432-438. (ISI)

51- Comparison of PCR-RFLP and PFGE for determining the clonality of Brucella isolates from human and livestock specimens: Saudi Journal of Biological Sciences;2017, Nasrin Bahmani, Reza Mirnejad, Mohammad Reza Arabestani, Parviz Mohajerie, Seyed Hamid Hashemi, Manoochehr Karami, Mohammad Yousef Alikhani. (ISI)

52- Correlation between ability of biofilm formation with their responsible genes and MDR patterns in clinical and environmental Acinetobacter baumanni i isolates: Microbial Pathogenesis, 2017, 108: 122-128. Ali Mohammadi Bardbari, Mohammad Reza Arabestani, Manoochehr Karami, Fariba Keramat, Mohammad Yousef Alikhani, Kamran Pooshang Bagheri. (ISI: IF:2.2)

53- Identification of Group B Streptococci Using 16S rRNA, cfb, scpB, and atr Genes in Pregnant Women by PCR , Acta Med Iran, 2016;54(12):765-770, Seyed Masoud Mousavi1, Seyed Mostafa Hosseini1, Rasoul Yousefi Mashouf1, and Mohammad Reza Arabestani. (ISI). Correspondence author.

54- The Study of blaZ and mecA Gene Expression in Methicillin-Resistant Staphylococcus aureus Strains and the Relationship between the Gene Expression Patterns. Journal of Isfahan Medical School, 2017, 443(35): 1062-67. Hamed Tahmasebi, Behruz Zeyni, Sanaz Dehbashi, Hamid Motamedi, Mahsa Vafaeefar, Fariba Keramat, Mohammad Reza Arabestani. (Scopus). Correspondence author. Genotyping of Clinical Streptococcus agalactiae Strains Based on Molecular Serotype of Capsular (cps)

55- Gene Cluster Sequences Using Polymerase Chain Reaction, Arch Clin Infect Dis. 2017 January; 12(1):e36787, Mohammad Reza Arabestani, Seyed Masoud Mousavi and Mona Nasaj. (ISI) Correspondence author.

56- Evaluation of Real-time PCR-based DNA melting method for detection of Enterococcus faecalis and Enterococcus faecium in clinical isolates, J Babol Univ Med Sci, 2017, 19(2):26-33. B. Zeyni, M.R. Arabestani, R.Yousefi Mashuf, H.tahmasebi. (Scopus). Correspondence author.

57- Antibiogram of bacteria isolated from automated teller machines in Hamadan, West Iran. GMS Hygiene and Infection Control 2017, Vol. 12. Hassan Mahmoudi, Mohammad Reza Arabestani, Mohammad Yousef Alikhani, Iraj Sedighi, Hamed Farhadi Kohan, Mohammad Molavi. (Pubmed)

58- Diagnostic Value of Melting Curve Analysis Based on Multiplex-Real Time PCR in Identification of Enterococci Species, J Mazandaran Univ Med Sci, 2017, 26(145): 234-47. Mohammad Reza Arabestani, Hamed Tahmasebi, Behroz Zeyni. (Scopus). Correspondence author.

59- Evaluation of Multiplex Real-time Polymerase Chain Reaction in Detecting Common Species of Brucella, J Mazandaran Univ Med Sci, 2017, 27(147):97-107. Mohammad Reza Arabestani,Ali Gholami,Mohammad Yousef Alikhani,Nasrin Bahmani, Seyed Hamid Hashemi. (Scopus)

60- Evaluation of real time PCR for detection of clinical isolates of Staphylococcus aureus and methicillinresistance strains based on melting curve analysis method, Koomesh, 2017, 19 (4): 877- 86. Narges Heydari, Mohammad Yousef Alikhani, Farid Azizi Jalilian, Hamed Tahmasebi, Mohammad Reza Arabestani. (Scopus). Correspondence author.

61- Molecular analysis of the coagulase gene in clinical and nasal carrier isolates of methicillin-resistant Staphylococcus aureus by restriction fragment length polymorphism, J Global Antimicrobial Resistance, 2017, Hassan Mahmoudi Mohammad Reza Arabestani Seyed Fazlullah Mousavi Mohammad Yousef Alikhani. (ISI)

62- Detection of Integrons and Staphylococcal Cassette Chromosome mec Types in Clinical Methicillinresistant Coagulase Negative Staphylococci Strains, Osong Public Health Res Perspect 2017;8(1):47–53, Fahimeh Hajiahmadia, Elham Salimi Ghalea, Mohammad Yousef Alikhania, Alireza Mordadia, Mohammad Reza Arabestani. (Pubmed). Correspondence author.

63- Correlation between Infective Factors and Antibiotic Resistance in Enterococci Clinical Isolates in West of Iran. Chonnam Med J. 2017 Jan;53(1):56-63, Arabestani MR, Nasaj M, Mousavi SM. (Pubmed)

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Books:

1- Diagnostic Microbiology (Isolation and Identification of Pathogenic Microorganisms)
By: M.Y. Alikhani, M.R.Arabestani, A.Bahador, R. Kamali Kakhki, S.M.Mosavi (2014)
2- Medical Bacteriology for Medical and Paramedical Students
By: M.Y. Alikhani, A.Bahador, M.R.Arabestani (2013)
3- Biochemical Tests for Identification of Medical Bacteria: Jean F. MacFaddin (Vol 1 and 2)
Translated by: F. Rahimi, M.R.Arabestani (2014)
4- Pathogenesis Bacterial: A Molecular Approach: Brenda A.Wilson (Vol 1 and 2)
Translated by: M.R.Arabestani, A. Gholami, E.Salimi ghaleh, H. Kazemian (2016)

Research project:

1- Evaluation of the effect of vancomycin and ampicillin-loaded PLGA (poly(lactic-co-glycolic acid) nanoparticles conjugated with lysostaphin to treatment of wound infection caused by methicillin-resistant *Staphylococcus aureus in vivo* condition (animal study) (Principal Investigator).

2- Evaluation of antibacterial and antibiofilm activity of niosome nanoparticles containing Vancomycin, Myrtenol and Tannic acid on methicillin-resistant *Staphylococcus aureus* (MRSA) in- vivo and in- vitro (Principal Investigator).

3- Evaluation of the effect of quantum dot cadmium telluride (CdTe) conjugated nanoparticles loaded with doxycycline and hydroxychloroquine antibiotics on *Brucella melitensis* in the *in vitro* and *in vivo* condition (Principal Investigator)

4- **Determination of the frequency and role of genes involved in iron-uptake in antibiotic resistance and pathogenicity in *Acinetobacter baumannii* isolates (Principal Investigator)**

5- **Study of changes in antibiotic resistance and gene expression in co-culture conditions and the interaction of *Pseudomonas aeruginosa* and *Staphylococcus aureus* in planktonic and biofilm states and comparison with antibiotic-sensitive strains (Principal Investigator)**

6- Detection of Ambler class D ß-lactamases (OXA-145, OXA-161, OXA-224, OXA-539, OXA-675 and OXA-848) by High-Resolution Melting Curve Analysis (HRMA) and Determination of the Relationship between OXA Genes and Colistin Resistance in Clinical Isolates of *Pseudomonas aeruginosa*(Principal Investigator)

7- Evaluation of the effect of nisin on virulence and resistance of Staphylococcus aureus and Pseudomonas aeruginosa in co-culture on L929 cell line (Principal Investigator)

8- Evaluation of the therapeutic efficacy of chitosan-Fe3O4@SiO2 magnetic nanoparticle conjugated with lysostaphin, nisin, vancomycin and ampicilin Against skin infections due to methicillin- resistant staphylococcus aureus (MRSA) in in-vitro and in-vivo. (Principal Investigator)

9- Design and optimization of High-Resolution Melting Curve Analysis (HRMA) for Identification of Resistance to β-lactam, Polymyxin and Glycopeptide Antibiotics in species of Standard and Clinical isolates of Staphylococcus, Enterococcus, Streptococcus and Pseudomonas aeruginosa (Principal Investigator)

10- A quantitative survey on the role and effect of genes encoding sidrophores and heme-iron transporter systems in the clinical strains of Pseudomonas aeruginosa (Principal Investigator)

11- Determination of the Effect of Co-Cultureing of Staphylococcus aureus and Pseudomonas aeruginosa producing extracellular toxins on apoptotic pathways on L929cell line (Principal Investigator)

12- Investigation of Pseudomonas aeruginosa effect on metabolic function of persister cell of methicillin resistant and susceptible Staphylococcus aureus in vivo and in vitro (Principal Investigator)

13- Identification of viroleance factors and structural operons in coagulase-negative Staphylococcus based on Real Time PCR and determine the expression genes of resistance to beta-lactams, fluoroquinolones (Principal Investigator)

14- Evaluation of the function of Staphopain and PQS enzymes in clinical isolates of Staphylococcus aureus, Pseudomonas aeruginosa on the level of gene transcription

regulatory regions upstream of the gene each in the growth phase and an assortment of MDR strains on technical grounds MLST (Multilocus sequence typing(Principal Investigator)
15- Efficacy of Solid Lipid Nanoparticles (SLNs) loaded with doxycycline on Brucella melitensis bacteria at in vivo and in vitro conditions(Principal Investigator)
16- Measurement of gene expression induced by promoters attenuator produced by ESBL, KPC, MBL, ESBL, NDM and AmpC Pseudomonas aeruginosa strains isolated from clinical isolates and grouping by category Amber(Principal Investigator)
17- Evaluation of gene expression of mecA, mecI, mecC, mecRI and detection of limiting agr gene binding RNAIII-agrA (psm-mec) in clinical isolates of Staphylococcus aureus and grouping methicillin-resistant strains by Multilocus sequence typing method. (Principal Investigator)
18- Purification and optimization of recombinant Lysostaphin and targetting enzyme by liposomes against to Staphylococcus aureus skin infections(Principal Investigator)
19- Design of Multiplex Real Time PCR to identification of staphylococcus aureus isolated from coagulase negative staphylococcus isolated by high resolution melt analysis(Principal Investigator)
20- Design of Multiplex Real Time PCR to identification of Enterococcus species isolated from clinical and food specimen by high resolution melt analysis(Principal Investigator)
21- Development of Multiplex real time polymerase chain reaction to detection of brucella spp. by melting curve analysis and Molecular Typing of Brucella spp. Clinical isolates by PCR-Restriction fragment length polymorphism(PCR-RFLP) and Pulsed-field gel electrophoresis(PFGE) methods(Principal Investigator)
22- Genotyping of clinical isolated group B streptococcus (GBS) strains in Hamadan educational hospitals based on molecular serotype of capsular (cps) gene cluster sequences using PCR method and determining of their antibiotic susceptibility pattern in1392-93(Principal Investigator)
23- Determining of VanA,VanB,VanD subtypes and ESP,Hyl.AS virulence factors in Vancomycin- resistant Enterococcus faecium and Enterococcus faecalis strains isolated in Hamadan university of medical science's Hospitals(Principal Investigator)
24-Evaluate the expression of Efflux Pump gen (MexAB-OprM) and OprD in clinical isolates of (Aminoglycosides, Fluorokinolon, Carbapenem) in Pseudomonas aeruginosa by PCR (Principal Investigator)

Skills:

Persian: native
English: fluent
Computer Skills: Windows, Word, Internet, Excel, Power point, Access, SPSS, EndNote