

Curriculum vitae

1. General information

Surname: Rohani

Forename: Mahdi

Birthdate: 13th Jun. 1979

Place of birth: Qom- Iran

Marital status: married

Nationality: Iranian

Updated: 16.04.2016



2. Present position: Ph.D., in Medical Microbiology

- Assistant Professor of Microbiology Dep., Pasteur Institute of Iran
- Technical Manager of national reference laboratory for Plague, Tularemia and Q Fever, Pasteur Institute of Iran, Akanlu, Kabudar Ahang, Hamadan, Iran.
- Member of Pasteur Institute of Iran Rapid Response Team

3. Contact info:

Address: Microbiology Department, Pasteur Institute of Iran, 69 Pasteur Ave., 1316943551. Tehran, Iran.

Phone: +98-21-64112230. +989137163673

Tele/Fax: +98-21-66 40 55 35

Email: Kia.rohani@gmail.com

Web pages:

ResearchGate [\[Web Link\]](#)

GoogleScholar [\[Web Link\]](#)

4. Previous positions:

Lecturer of Microbiology and Immunology Dep. of Kashan University of Medical Sciences, Sept. 2006 until Sept. 2010.

5. Education and degrees:

High School diploma in Experimental sciences, 1997

Bachelor of Science in Microbiology from Tehran University, 2003

Master of Sciences in Medical Bacteriology from Mashhad University of Medical Sciences, 2006

PhD. in Medical Bacteriology, Pasteur Institute of Iran, 2009-2016

6. Title of thesis:

Evaluation of Prevalence of Beijing Genotype of Mycobacterium Tuberculosis in Mashhad City by Spoligotyping Method. (Msc, Thesis)

Isolation and phenotypic and genetic characterization of Lactobacillus spp. with properties of probiotic from human gut normal flora. (Ph.D. Thesis)

7. Skills and expertise:

Medical skills (as a general practitioner), Molecular biology techniques (PCR, RT-PCR, Real-time PCR, Cloning, electrophoresis), Mammalian cell techniques (culture) Animal studies (mouse), Immunologic tests (Immunization, ELISA)

Mass production of probiotic bacteria by fermenter in laboratory scale.

7.1.1. Language skills: Persian (native language), English (Intermediate)

8. National courses/ workshops attended:

2015: The 3rd Iranian Congress of Medical Bacteriology, Iran university of Medical Sciences, Iran

2014: Epidemiology field of Plague Disease, Pasteur Institute of Iran, Akanlu, Kabudar Ahang, Hamedan, Iran

2013: The 2nd Iranian Congress of Medical Bacteriology, Tehran, Iran

2009: Lecturer in 1st workshops on Food-Borne Diseases, Kashan University of medical sciences, 2009.

2009: Lecturer in the workshop "Vibrio: Identification and Epidemiology" Kashan University of medical sciences, 2009.

2008: Lecturer in 19th National Congress of Tuberculosis, Zanjan University of medical sciences, 2008.

2007: Real-Time PCR & Classical Diagnosis of Pertussis, Pasteur Institute of Iran, Iran

2006: Molecular Techniques in Diagnosis & Typing of Infectious Diseases, Pasteur Institute of Iran, Iran

9. Awards:

First rank in the Ph.D. entrance exam. Ministry of Health and Medical Education, 2009.

First rank of graduated Ph.D. students from Pasteur Institute of Iran, 2016

10. Publications:

1. **Mahdi Rohani**, Abdolrazagh Hashemi Shahraki, Ahmad Ghasemi, Saber Esmaeili, Aynur Karadenizli, Ehsan Mostafavi. The prevalence of Francisella spp. in different

natural surface water samples collected from northwest of Iran. *Iranian Journal of Microbiology*; 2019; 11 (1): 19-24

2. Ehsan Mostafavi, Leila Molaeipoor, Saber Esmaeili, Ahmad Ghasemi, Maedeh Kamalizad, Manijeh Yousefi Behzadi, Razi Naserifar, **Mehdi Rohani**, Abdolrazagh Hashemi Shahraki. (2019) Seroprevalence of Q fever among high-risk occupations in the Ilam province, the west of Iran. *PLoS ONE* 14(2): e0211781.
3. Bibalan, Meysam Hasannejad, Morteza Eshaghi, **Mahdi Rohani**, Malihe Talebi, and Mohammad R. Pourshafie. Anti-proliferation and Anti-pathogenic Effects of *Lactobacillus* spp Isolated from Healthy Human Individuals. *JOURNAL OF CLINICAL GASTROENTEROLOGY*, 2018; (52): S111-S111.
4. **Rohani M**, Mohsenpour B, Ghasemi A, Esmaeili S, Karimi M, Neubauer H, Tomaso H, Mostafavi E. A case report of human tularemia from Iran. *IJM*. 2018; 10(4):250-3.
5. **Rohani M**, Papizadeh M, Pourshafie M R. Correlation of Biofilm Formation and Caco-2 Cell Attachment Properties in Colonization Ability of Acid-Bile Resistant Fecal *Lactobacillus plantarum* Isolates. *JoMMID*. 2018; 6 (1) :13-19
6. Mostafavi E, Ghasemi A, **Rohani M**, Molaeipoor L, Esmaeili S, Mohammadi Z, Mahmoudi A, Aliabadian M and Johansson A (2018) Molecular Survey of Tularemia and Plague in Small Mammals from Iran. *Front. Cell. Infect. Microbiol*. 8:215.
7. Mehdi Assmar, Marjan Keypour, **Mehdi Rohani**, Ehsan Mostafavi and Dariush Daneshvar Farhud. The Resistance to Plague Infection among *Meriones persicus* from Endemic and Non-endemic Regions in Iran: The Role of Gut Microbiota. *Iranian Journal of Public Health*. 2018 Jan;47(1):86-94.
8. Ahmad Ghasemi, Saber Esmaeili, Abdolrazagh Hashemi Shahraki, Hamed Hanifi, Zeinolabedin Mohammadi, Ahmad Mahmoudi, **Mahdi Rohani**, Ehsan Mostafavi. Upsurge of Rodents' Population in a Rural Area of Northeastern Iran Raised Concerns about Rodent-borne Diseases. *Journal of Medical Microbiology and Infectious Diseases*, 2017, 5 (1-2).
9. Meysam Hasannejad Bibalan, Morteza Eshaghi, **Mahdi Rohani**, Maryam Esghaei, Davood Darban-Sarokhalil, Mohammad R. Pourshafie, Malihe Talebi. Isolates of *Lactobacillus plantarum* and *L. reuteri* display greater antiproliferative and antipathogenic activity than other *Lactobacillus* isolates. 2017 *Journal of Medical Microbiology* doi:10.1099/jmm.0.000591. [ISI, PubMed, IF: 2.159].
10. Malihe Talebi, Morteza Eshaghi, Meysam Hasannejad Bibalan, **Mahdi Rohani** and Mohammad Reza Pourshafie. Determination and Comparasion of Antibacterial

Activity of Native *Bifidobacterium* Strains with Similar RAPD Profile Isolated from Paired Infants Stool and Mothers Milk. J Prob Health (2017) 5: 175. doi: 10.4172/2329-8901.1000175.

11. Morteza Eshaghi, Meysam Hasannejad Bibalan, **Mahdi Rohani**, Maryam Esghaei, Masoumeh Douraghi, Malihe Talebi, Mohammad Reza Pourshafie. *Bifidobacterium* obtained from mother's milk and their infant stool; A comparative genotyping and antibacterial analysis. Microbial Pathogenesis, 111 (2017) 94-98. [ISI, PubMed, IF: 2.1].
12. Moslem Papizadeh, **Mahdi Rohani**, Hossein Nahrevanian, Abdolreza Javadi, Mohammad Reza Pourshafie. Probiotic characters of *Bifidobacterium* and *Lactobacillus* are a result of the ongoing gene acquisition and genome minimization evolutionary trends. Microbial Pathogenesis; 111 (2017) 118-131. [ISI, PubMed, IF: 2.1].
13. Arezoo Piran, Fereshteh Shahcheraghi, Hamid Solgi, **Mahdi Rohani**, Farzad Badmasti. A reliable combination method to identification and typing of epidemic and endemic clones among clinical isolates of *Acinetobacter baumannii*. Infection, Genetics, and Evolution; 54 (2017) 501–507. [ISI, PubMed, IF: 2.88].
14. Morteza Eshaghi, Meysam Hasannejad Bibalan, **Mahdi Rohani**, Manzar Sadat Ghaffari and Malihe Talebi. Genotype Diversity and Evaluation of Biofilm Formation in sasX Positive Methicillin-Resistant *Staphylococcus aureus*. Avicenna Journal of Clinical Microbiology and Infection: e46049.
15. Meysam Hasannejad Bibalan, Morteza Eshaghi, **Mahdi Rohani**, Mohammad Reza Pourshafi, Malihe Talebi. Determination of Bacteriocin Genes and Antibacterial Activity of Lactobacillus Strains Isolated From Fecal Healthy Individuals. Winter 2017, Vol 6. [ESCI, PubMed].
16. Papizadeh M, Nahrevanian H, **Rohani M**, Hosseini SN, Shojaosadati SA. *Lactobacillus rhamnosus* Gorbach-Goldin (GG): A Top Well-Researched Probiotic Strain. J Med Bacterial. 2016; 5 (5, 6): pp.32-49. *(Corresponding Author) (Review Article)*
17. N. Noohi, G. Ebrahimipour, **M. Rohani**, M. Talebi & M. R. Pourshafie. Evaluation of potential probiotic characteristics and antibacterial effects of strains of *Pediococcus* species isolated from broiler chickens. British Poultry Science. 2016; <http://dx.doi.org/10.1080/00071668.2016.1169247>. [ISI, PubMed, IF: 0.93].

18. **Rohani M**, Noohi N, Talebi M, Katouli M, Pourshafie MR. Highly Heterogeneous Probiotic Lactobacillus Species in Healthy Iranians with Low Functional Activities. PLoS ONE. 2015; 10(12): e0144467. [ISI, PubMed, Scopus; IF: 3.24].
19. F Bagheri Amiri, M Saifi, MM Gouya, **M Rohani**, E Mostafavi. Comparison of an interferon-gamma release assay and the tuberculin skin test for diagnosis of latent tuberculosis in homeless people in Iran: a cross-sectional study. Infectious Diseases. 2015; 47 (8), 536-541. [ISI; IF: 1.7].
20. Bagheri Amiri F, Gouya MM, Saifi M, **Rohani M**, Tabarsi P, et al. Vulnerability of Homeless People in Tehran, Iran, to HIV, Tuberculosis and Viral Hepatitis. PLoS ONE. 2014; 9(6): e98742. [ISI, PubMed, Scopus; IF: 3.73].
21. Nasrin Noohi, Gholamhosein Ebrahimipour, **Mahdi Rohani**, Malihe Talebi, Mohammad Reza Pourshafie. Phenotypic Characteristics and Probiotic Potentials of Lactobacillus spp. Isolated From Poultry. Jundishapur J Microbiol. 2014; 7(9): e17824. [ISI, PubMed, Scopus; IF: 0.383].
22. Khorshidi Ahmad, **Rohani Mehdi**, Akbari Motahare and Motallebi Mitra. Molecular detection of bla TEM and bla SHV genes among clinical isolates of Escherichia coli from Kashan, Iran. African Journal of Microbiology Research. 2013; 7(9):751-754. [Google Scholar, IF: 0.539].
23. Tavajjohi Z, Moniri R, Khorshidi A, **Rohani M**. Detection of the bla Genes (TEM-1, SHV-1, SHV-5, CTX-M-1, CTX-M-2, CTX-M-3, CTX-M-9, OXA-1, GES-1 and GES-2) in Pseudomonas aeruginosa Strains Isolated from Clinical and Environmental Samples of Shahid Beheshti Hospital in Kashan. ZUMS Journal. 2012; 20 (82):42-51. (In Persian)
24. Khorshidi A, **Rohani M**, Moniri R. The prevalence and molecular characterization of extended-spectrum β -lactamases-producing Klebsiella pneumoniae isolates recovered from Kashan hospital university, Iran. Jundishapur J Microbiol. 2012; 4(4): 289-294. *(Corresponding Author)* [ISI, PubMed, Scopus; IF: 0.383].
25. Mahnaz Torfeh, Ebrahim Sakhinia, Hasan Hasani, Yadollah Ahmadi, Davoud Nourizadeh, Yaghoub Heshmat, **Mahdi Rohani**. Molecular analysis and comparison of y chromosome microdeletions in tabriz and Kashan infertile men with azoospermia and severe oligospermia. Iranian Journal of Obstetrics, Gynecology, and Infertility. 2012; 15 (2), 23-30. (In Persian)
26. Motallebi M, Piroozmand A, **Rohani M**, Akbari H, Khorshidi A. Prevalence and multi-drug resistance of enteropathogenic Escherichia coli (EPEC) isolated from

children less than 5 years of age with diarrhea in Kashan Shahid Beheshti Hospital during 2009-10. Feyz, Journal of Kashan University of Medical Sciences. 2011; 15(1): 61-68. (In Persian)

27. Motallebi Mitra, Piroozmand Ahmad, **Rohani Mehdi**, Akbari Hosein and Khorshidi Ahmad. Multiple drug resistance of enteropathogenic Escherichia coli isolated from children with diarrhea in Kashan, Iran. African Journal of Microbiology Research. 2011; 5(20): 3305-3309. [Google Scholar, IF: 0.539].
28. Khorshidi Ahmad, Motallebi Mitra, **Rohani Mehdi** and Piroozmand Ahmad. Characterization of virulence genes in typical and atypical enteropathogenic Escherichia coli. Scientific Research and Essays. 2011; 6(31):6600-6605. [IF: 0.45]
29. Mitra Motallebi, Ahmad Khorshidi, Ahmad Piroozmand, **Mehdi Rohani**, Hosein Akbari. Survey of virulence factors of Enteropathogenic Escherichia coli (EPEC) isolated from less than 5years old children with diarrheal by PCR. Clinical Biochemistry. 2011, 44(13 Supplement): S309. [Scopus, Medline, IF: 2.07]
30. Amiri M, Jadali Z, Mirshafie S, Sarrafnezhad A, Rasoolinejad M, Ravanbakhsh M, **Rohani M**, et al. Comparison of apoptosis, circulating levels of tumor necrosis factor- α and tumor necrosis factor type-I receptor in Iranian patients with sepsis and normal controls. payavard. 2010; 3 (3 and 4):96-104. (In Persian)
31. **M. Rohani**, P. Farnia, M. Torfeh. Beijing genotype and other predominant Mycobacterium tuberculosis spoligotypes observed in Mashhad city, Iran International Journal of Infectious Diseases. 2010; 14(Supplement 1): e302-302. *(Corresponding Author)* [ISI, PubMed, Scopus; IF: 2.35].
32. **Rohani M**, Farnia P, Nasab MN, Moniri R, Torfeh M, Amiri MM. Beijing genotype and other predominant Mycobacterium tuberculosis spoligotypes observed in Mashhad city, Iran. Indian J Med Microbiol. 2009; 27(4):306-10. *(Corresponding Author)* [ISI, PubMed, Scopus; IF: 1.006].
33. Ahmad Khorshidi, **Mahdi Rohani**, Rezvan Moniri, Mahnaz Torfeh. Comparison of culture and microscopic methods by PCR for detection of Mycobacterium tuberculosis in sputum. Iranian Journal of Clinical Infectious Diseases. 2009; 4(4): 228-232. *(Corresponding Author)* [ISI, Scopus]
34. **Rohani M**, Khorshidi A, Moniri R, Torfeh M, Abddoshah F, Saffari M, Shajari Gh R, Moosavi Gh A. Rapid detection of Mycobacterium tuberculosis complex: PCR

method using insertion sequence 6110. Tehran University Medical Journal; Vol. 67, No. 3, Jun 2009: 173-177 (In Persian). (*Corresponding Author*)

35. A Khorshidi, Z Moazen, **M Rohani**, R Moniri. Prevalence of TEM1 & SHV1 genes in *Klebsiella pneumoniae* with ESBL. Journal Mil Med. 2009; 11(3), 149-153. (In Persian)(*Corresponding Author*)
36. **Mahdi Rohani**, Parisa Farnia, Mahboobeh Naderinasab, Ali Sadeghian, Mehrangiz Khajekaramoddin, Rezvan Moniri. Evaluation of frequency of Beijing genotype of *Mycobacterium tuberculosis* isolated from tuberculosis patient in Mashhad city, Iran. Journal of Mazandaran University of Medical Sciences. 2007; 17(60): 79-86. (In Persian). (*Corresponding Author*)

10-1: Books

2010, 2013 and 2016: M. Rohani, M. Torfeh, M.M. Amiri and S. Esmaeili, Jawetz, Melnick & Adelbergs Medical Microbiology 25 and 26e. Asar-e-Sobhan and Jafari Press, Tehran, Iran (Translated to Persian).

11. Fields of interest:

General and Molecular Bacteriology (Antibiotic Resistance, Epidemiology)

Food Microbiology and Probiotic Research.

12. Some current and previous projects:

- The Prevalence of Acute Q Fever Disease in at risk Febrile and Respiratory Problems cases in Kurdistan Province. 2018 –count
- Evaluation of frequency of Culture Negative Endocarditis agents in exchanged heart valves in Shahid Rajaei's cardiology hospital during the 2012- 2016. 2018- count
- Isolation and molecular identification of *Francisella spp* in western Iran. 2017- count
- Infection of hard ticks (Ixodidae) originating from north and northwest of Iran to *Borrelia burgdorferi*, *Francisella tularensis*, and *Coxiella burnetii*. 2017- count
- Rodent-borne emerging and re-emerging zoonotic diseases in the north-western Iran: molecular epidemiology, taxonomy, population genetics, and phylogeny of the reservoir hosts and pathogens. 2017- count
- Evaluation of domestic probiotic *Lactobacillus spp.* on expression of Wnt signaling pathway in mouse model of colorectal cancer. 2017- count
- Evaluation of domestic probiotic *Lactobacillus spp.* on ERK and Wnt signaling pathway in hyperthermia- treated colorectal cancer cell line. 2018- count

- Analysis of Seroepidemiology Plague, Tularemia and Brucellosis in Rodents and dogs, Lorestan province, Iran and analysis of their Ectoparasites. 2016- count
- Monitoring of emerging and reemerging infectious diseases. 2015- count (this project is a national project under supervision of ministry of health).
- Evaluation of probiotic *Lactobacillus* strains effect on prevention and treatment of inflammatory bowel disease in mice in-vivo model. Pasteur Institute of Iran. 2014-2015.
- Evaluation of gut microbiota in patients with inflammatory bowel disease and comparison with the normal population. 2016- count
- Evaluation of domestic probiotic *Lactobacillus spp.* on Wnt signaling pathway in in vitro and colorectal cancer mouse model. 2016- countd
- Evaluation of different molecular weight fractions derived from *Lactobacillus reuteri* supernatant affecting on inflammatory mediators in macrophage-like PMA-differentiated THP-1 cells and invasion factors in colon cancer stem-like cells enriched from HT-29 cell line. 2016- count
- Evaluation of the accuracy of Multiplex PCR in MRSA detection. Kashan University of Medical Sciences. 2006-2010
- Evaluation of the accuracy of Multiplex PCR in Detection of *Mycobacterium tuberculosis* in Sputum sample. Kashan University of Medical Sciences. 2006-2010
- Evaluation of genotype of ESBL producing Gram-Negative Bacilli from Hospitalized Patients. Kashan University of Medical Sciences. 2008-2010.
- Vulnerability to HIV, tuberculosis and viral hepatitis of homeless people in Tehran, Iran. Pasteur Institute of Iran. 2011-2012

13. Ph.D. and MSc project supervision:

Roya Ghanavati (PhD student): Investigation of the effect of native probiotic *Lactobacillus spp.* on Notch and related signaling pathways in colon cancer cells. 2016- count

Zakiyeh Ghorbani (PhD student): Evaluation of hyperthermia effect on beta-catenin protein expression and the expression pattern of stem-ness-related genes properties Nanog and Oct and chemotherapy resistance-related genes MDR and MRP in colorectal cancer cell lines. 2018- count

Hossein Ahangari Kohan (PhD student): Tularemia survey in sheep, cattle herds and water sources of Kurdistan province. 2017-count

Mitra Motallebi: Prevalence and multi-drug resistance of enteropathogenic *Escherichia coli* (EPEC) isolated from children under 5 years of age with diarrhea in Kashan Shahid Beheshti Hospital. 2009-2010

Roya Ghanavati: Investigation the interaction between Wnt and Notch signaling pathways in colon cancer cells in the vicinity of potentially probiotic *Lactobacillus* species. 2016- Contd

Moslem Papizadeh: Developing a Semi-Industrial Bioprocess Plant for Biomass Production of Probiotic Strains of *Lactobacillus* Isolated from Iranian Population and Analysis of Their Biological Products and their Activities in Fermentation Conditions. 2016- Contd