

CURRICULUM VITAE

Personal Information

Name: Amin Dehghan

Current Position: Assistant Professor in Medical Bacteriology

Nationality: Iranian

Place of birth: Karaj

E-mail address: amin_dehghan25@yahoo.com, dehghan.amin@iums.ac.ir

Education

2017- 2022: Ph.D. in Medical Bacteriology, Tehran University of Medical Sciences, Tehran, Iran (**First rank** among the entry students).

Thesis title: Quantitative analysis of the effect of common bacterial pathogens of sexually transmitted infections on variation in effective indices of male infertility

2012- 2015: M.Sc. in Medical Microbiology, Shahid Sadoughi University of Medical Sciences, Yazd, Iran (**First rank** among the entry students).

Thesis title: Frequency of extended spectrum beta-lactamases (ESBLs) producing, carbapenemase producing and plasmid mediated quinolones resistance among *Klebsiella pneumoniae* strains isolated from UTI at yazd and karaj hospitals by phenotypic and molecular methods.

2006- 2010: B.Sc. in Microbiology, Islamic Azad University, Karaj branch, Karaj, Iran

Academic Experience:

2023 until now: Iran University of Medical Sciences

Position: Assistant Professor

2020- 2021: Karaj Islamic Azad University

Position: Guest lecturer

Awards and honors

- **First rank** among the entry students in Ph.D.
- **First rank** among the entry students in M.Sc.
- Chosen as the **top speaker** in the 3rd National Congress of Medical Bacteriology
- Chosen as the **exceptional talents**.
- Chosen by the **Iran's National Elite Foundation**.
- Winner of the fourth period of the Shahid Ahmadi Roshan award of the **Iran's National Elite Foundation** and obtaining the maximum elite points.
- Winner of the the fifth period of the Shahid Ahmadi Roshan award of the **Iran's National Elite Foundation** and obtaining the maximum elite points.

Educational clips

- A collection of clips of bacteriological laboratory diagnostic tests.

English Language Certificate

- Advanced 4 (the highest level) from the Iran Language Institute (ILI), Karaj branch.

Executive

- Member of the self-evaluation committee of the educational courses for the Ph.D. in medical microbiology - Tehran University of Medical Sciences (2021)
- Member of the Executive Board of the 19th International and Iranian Congress of Microbiology- Tehran University of Medical Sciences (2018)

- Member of the Student Research Committee of Shahid Sadoughi University of Medical Sciences, Yazd (2012- 2015)

Memberships of scientific associations

- Member of Iranian Society of Microbiology.
- Member of Iranian Society for Medical Bacteriology.
- Member of Iranian Probiotics and Functional Foods Society.

Publications

- Multilocus VNTR analysis-ompA typing of *Chlamydia trachomatis* isolates in Tehran, Iran (2023). A Zarei, MR Pourmand, F Aminharati, P Zolfaghari, A Dehghan, ...Journal of Infection and Chemotherapy 29 (8), 759-763
- The effects of *Chlamydia trachomatis*, *Mycoplasma hominis*, and *Ureaplasma urealyticum* loads on semen quality: Detection and quantitative analysis (2022). A Dehghan, MR Pourmand, V Salimi, FA Asbagh, AR Foroushani, ...Microbial Pathogenesis 169, 105676
- Prevalence of resistance genes and antibiotic resistance profile among *Stenotrophomonas maltophilia* isolates from hospitalized patients in Iran (2021). Z Baseri, A Dehghan, S Yaghoubi, S Razavi. New Microbes and New Infections 44, 100943
- Clinical uses and survival study of free and encapsulated probiotic bacteria in fruit juices: a review (2021). I Alemzadeh, M Afarin, A Dehghan, MA Sani, M Teimouri, F Seilani, ...Applied Food Biotechnology 8 (3), 161-180
- Evaluating the antibiotic resistance and frequency of adhesion markers among *Escherichia coli* isolated from type 2 diabetes patients with urinary tract infection and its association with common polymorphism of mannose-

binding lectin gene (2020). M Mehrabi, B Salehi, H Rassi, A Dehghan. *New Microbes and New Infections* 38, 100827

- The possible role of pathogenic and non-pathogenic bacteria in initiation and exacerbation of celiac disease; a comprehensive review (2020). T Azimi, A Nasser, A Shariati, SMJ Shiadeh, H Safari, M Alizade-Sani, ...*Current Pharmaceutical Biotechnology* 21 (6), 452-466
- Coronavirus disease 2019 (COVID-19): immune responses, transmission and clinical features: an update (2020). P Hosseini, A Dehghan, AH Navand, M Moghadami, S Soltani, M Zandi. *JCMA* 5 (4), 266-268
- Role of IL-4 in Cytokine Storm Syndrome due to COVID-19 Infection (2020). RS Jelodar, S Nasimzadeh, A Dehghan, M Zandi. *Journal of Cellular and Molecular Anesthesia*, 278-279
- Are viruses and parasites linked to celiac disease? A question that still has no definite answer (2019). A Shariati, HR Aslani, MRH Shayesteh, A Taghipour, A Nasser, H Safari, ...*Current Pharmaceutical Biotechnology* 20 (14), 1181-1193
- Evaluating the Frequency of *aac(6')-IIa*, *ant(2'')-I*, *intl1*, and *intl2* Genes in Aminoglycosides Resistant *Klebsiella pneumoniae* Isolates Obtained from Hospitalized Patients in Yazd, Iran (2018). H Mokhtari, G Eslami, H Zandi, A Dehghan, M Vakili. *Avicenna Journal of Medical Biotechnology* 10 (2), 115
- Frequency of *qepA* and *aac (6')-Ib-cr* Plasmid-Mediated Quinolone Resistance Genes in *Klebsiella pneumoniae* isolated from Patients with Urinary Tract Infection in Yazd City, Iran (2017). G Izadi, H Zandi, A Dehghan, SS Emadi, M Vakili, A Astani. *Journal of Isfahan Medical School* 35 (454), 1579-1586
- The prevalence of carbapenemase producing *Klebsiella pneumoniae* Strains Isolated from clinical urine specimens in university teaching Hospitals, Iran

(2017). A Dehghan, G Eslami, H Zandi, A Dehghan. International Journal of Medical Laboratory 4 (3), 172-179

- Prevalence of *qnr* genes in extended-spectrum β -lactamase producing *Klebsiella pneumoniae* isolated from clinical urine specimens in university teaching hospitals, Iran (2017). A Dehghan, G Eslami, H Zandi, A Dehghan. International Journal of Medical Laboratory 4 (1), 25-33
- Survey of Antibiotic Resistance and Frequency of *bla*OXA-23 and *bla*OXA-24 Oxacillinase in *Acinetobacter baumannii* Isolated from Tracheal Tube Specimens of Patients Hospitalized in Intensive Care Units in Isfahan city (2017). M Ghalebi, G Eslami, H Zandi, A Farhang, M Vakili, N Mohammadi,...Journal Of Shahid Sadoughi University Of Medical Sciences and Health Services.
- Antibacterial Effects of (Mentha X Piperita L.) Hydroalcoholic Extract on the Six Food-Borne Pathogenic Bacteria (2016). H Zandi, B Hajimohammadi, A Amiri, AM Ranjbar, H Mozaffari khosravi, ...Tolooebehdasht 15 (4), 22-33
- Antibiotic Resistance Patterns of *Klebsiella pneumoniae* Strains Isolated from Urine Samples Collected from Shahid Sadoughi University Hospitals, Yazd, Iran (2016). A Dehghan, G Eslami, H Zandi, A Mosadegh, A Amiri. Tolooebehdasht 15 (3), 187-197
- Comparison of Diagnostic Procedures for Platelet Products Contaminated with Strains of *Staphylococcus Epidermidis* and *Klebsiella* (2016). E Zarifi, M Baghbanian, A Dehghan, M Sahimi, L Gudarzi. Medical Laboratory Journal 9 (3), 25-31
- Antifungal Activity of Aqueous Extracts from *Ferula Assa foetida* Aerial parts on *Candida Albicans* and its Comparison with Fluconazole in vitro (2015). AA Jafari, H Jafari, A Dehghan, M Baghbanian. Tolooebehdasht 13 (3), 171-181

Projects

- Development of tools for providing laboratory educational units using virtual reality (Iran's National Elite Foundation)
- Preparation of beneficial juice formulation containing probiotics (Iran's National Elite Foundation)
- Quantitative analysis of the effect of common bacterial pathogens of sexually transmitted infections on variation in effective indices of male infertility.
- Evaluating the antimicrobial resistance patterns among major bacterial pathogens isolated from clinical specimens taken from patients in mofid childrens hospital: 2012-2018.
- Evaluating the frequency of pathogenic bacteria isolated from the hands of food handlers in public hospitals in Yazd city and determining their antibiotic resistance pattern.
- Investigating the relationship between Mex AB oprM pump expression and nalC gene mutation in *Pseudomonas aeruginosa* isolated from burn wounds in Yazd city.
- Evaluating the Antifungal Activity of Aqueous Extracts from *Ferula Assa foetida* Aerial parts on *Candida Albicans* and its Comparison with Fluconazole in vitro.

Presentation:

- Prevalence of *qnr* Genes in Extended-Spectrum β -Lactamase Producing *Klebsiella pneumoniae* Isolated from Clinical Urine Specimens in University Teaching Hospitals, Iran (The 19th International and Iranian Congress of Microbiology, Tehran, Iran- 2018)
- Antibiotic Resistance Patterns of *Klebsiella pneumoniae* Strains Isolated from Urine Samples Collected from Yazd University Hospitals. (The 3rd Iranian Congress of Medical Bacteriology, Tehran- Iran- 2015)

- Phenotypic and Molecular Characterization of Extended-Spectrum β -Lactamase Produced by *Klebsiella pneumoniae* Strains Isolated from Urine Samples Collected from Karaj University Hospitals. (The 16th International and Iranian Congress of Microbiology, Tehran, Iran- 2015)
- The Prevalence of *TEM*, *SHV* and *CTX-M* β -lactamase Genes in *Klebsiella pneumoniae* Strains Isolated from Urine Samples Collected from University Hospitals. (The 16th International and Iranian Congress of Microbiology, Tehran, Iran- 2015)
- The Prevalence of Carbapenemase Producing among *Klebsiella pneumoniae* Strains Isolated from Urine Samples Collected from Yazd and Karaj University Hospitals. (The 3rd Iranian Congress of Medical Bacteriology, Tehran- Iran-2015)
- Phenotypic and Molecular Detection of Extended-Spectrum β -Lactamase Produced by *Klebsiella pneumoniae* Strains Isolated from Urine Samples Collected from Shahid Sadoughi University Hospitals, Yazd,Iran. (The 3rd Iranian Congress of Medical Bacteriology, Tehran- Iran- 2015)

Participation in international and domestic congresses and conferences

- The 14th International & 20th National Congress on Quality Improvement in Clinical Laboratories (2023)
- Updates on Covid-19 and the Role of Public Health Interventions, Tehran, Iran (2022)
- Quarterly Meeting of Iranian Health Scientific Association with the topic of "Prevention and Control of Cutaneous Leishmaniasis" , Tehran, Iran (2018)
- The 19th International and Iranian Congress of Microbiology, Tehran, Iran (2018)

- The 3rd Iranian Congress of Medical Bacteriology, Tehran- Iran (2015)
- The 16th International and Iranian Congress of Microbiology, Tehran, Iran (2015)
- The 15th National Medical Science Education Conference, Yazd-Iran (2014)
- Congress on Innovative Laboratory Technique, Tehran- Iran (2013)
- The 2nd Iranian Congress of Medical Bacteriology, Tehran- Iran (2013)
- The 14th International Iranian Congress of Microbiology, Tehran- Iran (2013)

Gene registration

- *Klebsiella pneumoniae* strain 160 beta-lactamase (blaSHV) gene, partial cds.
GenBank: KT315579.1
- *Klebsiella pneumoniae* strain 160 beta-lactamase (TEM) gene, partial cds.
GenBank: KT315578.1
- *Klebsiella pneumoniae* strain 160 beta lactamase (blaCTX-M) gene, partial cds. GenBank:KT315577.1
- *Klebsiella pneumoniae* strain 15 beta-lactamase (blaTEM) gene, partial cds.
GenBank: KT315576.1
- *Klebsiella pneumoniae* strain 155 beta-lactamase (blaSHV) gene, partial cds.
GenBank: KT315575.1
- *Klebsiella pneumoniae* strain 15 cefotaximase (blaCTX-M) gene, partial cds.
GenBank: KT315574.1

- *Klebsiella pneumoniae* strain 106 quinolone resistance protein (qnrS) gene, partial cds. GenBank: KT315573.1
- *Klebsiella pneumoniae* strain 17 quinolone resistance protein B (qnrB) gene, partial cds. GenBank: KT315572.1
- *Klebsiella pneumoniae* strain 15 quinolone resistance protein B (qnrB) gene, partial cds. GenBank: KT315571.1
- *Klebsiella pneumoniae* strain 65 quinolone resistance protein (qnrS) gene, partial cds. GenBank: KT315570.1