

## Curriculum Vitae

### Personal details

#### **PERSONAL DETAILS:**

**Surname:** Mojtahedi  
**First Name:** Ali  
**Date of birth:** 12/4/1972

**Postal Address:** Department of Microbiology,  
Faculty of Medicine, Iran University of Medical Sciences,  
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### Education

- 2002-2007** **Ph.D** in Medical Bacteriology, Faculty of Medicine, Isfahan University of Medical Sciences, Isfahan- Iran.  
**Thesis entitled:** The survey of rule of *Helicobacter pylori* in Apoptosis of AGS and HEF cell lines and bax and bcl-2 genes Expression.
- 2004-2005** Sabbatical Period in British Columbia, Vancouver, Canada.
- 1996-1999** **M.Sc.** in Medical Microbiology, Faculty of Medicine, Iran University of Medical Sciences, Tehran- Iran.  
**Thesis entitled:** A survey of the bacterial Contaminants of Iranian Foods in search of EIEC.
- 1992-1996** **B.Sc.** in Microbiology, Faculty of Sciences, Islamic Azad University, Karaj- Iran.

### Educational Attainment

- 1998** Achievement a premier position in M.Sc. degree in Medical Microbiology, Iran University of Medical Sciences.
- 2007** Achievement a premier position in Ph.D degree in Medical Bacteriology, Isfahan University of Medical Sciences.

### Professional Expression

- 2022 - Present** Full Professor
- 2017 - 2022** Associate Professor in Medical Microbiology for students of Medicine, Dentistry, Pharmacology, Laboratory Sciences, Nursing,

	Midwifery, Health, Faculty of Medicine, Guilan University of Medical Sciences, Rasht- Iran.
<b>2017- 2019</b>	Head of Microbiology Department
<b>2007- 2017</b>	Assistant Professor in Medical Microbiology and Virology for students of Medicine, Nursing, Midwifery, Health, Faculty of Medicine, Guilan University of Medical Sciences, Rasht- Iran.
<b>2000-2002</b>	Instructor in Medical Microbiology and Virology for students of Medicine, Laboratory Sciences, Nursing, Midwifery, Health, Faculty of Medicine, Lorestan University of Medical Sciences, Khorramabad- Iran.
<b>2000-2002</b>	Instructor in Practical Medical Bacteriology for students of Medicine, Laboratory Sciences, Nursing, Midwifery, Health, Faculty of Medicine, Lorestan University of Medical Sciences, Khorramabad- Iran.
<b>1999-2000</b>	Assistant leader of Microbiology laboratory in Chamran Hospital, Tehran- Iran.

### **Teaching Experiences**

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I am expert in the following Diagnostic Medical Bacteriology, Molecular Biology and Cell Culture.

**Diagnostic Medical Bacteriology:** Clinical specimen processing, Invitro bacterial identification tests including all routine diagnostic tests. Direct and indirect fluorescent Microscopy.

**Cell culture.**

**Preparation and analysis of DNA:** DNA purification from bacteria. Plasmid isolation, plasmid preparation, Chromosome staining.

**Size Fractionation of Nucleic acids:** Electrophoresis using agarose and polyacrylamide gel electrophoresis and SDS-PAGE.

**Analysis of DNA and proteins by blotting:** Southern blotting, Western blotting.

**Enzymatic manipulation of Nucleic acids:** Digestion of DNA with restriction endonucleases, DNA ligation and sub cloning of DNA fragments.

**Preparation and analysis of RNA:** Preparation of cytoplasmic RNA from tissue culture cells, Conversion of mRNA into double-strand cDNA.

**The Polymerase Chain Reaction (PCR) based techniques:** PCR, RT-PCR, and Multiplex PCR, PCR-RFLP, RAPD-PCR, Nested-PCR.

**Molecular Typing:** MLST typing, Agr typing, Coa typing, SCCmec typing, Spa typing

**Immunology:** Latex agglutination assays, ELISA.

**Bioinformatics:** Primer designing.

### **Professional Society**

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<b>2002- Present</b>	Member of Iranian Society of Microbiology
<b>2009- Present</b>	Representative of Microbiologists of Guilan province in Iran Laboratories Society
<b>2010- Present</b>	Member of research council in Medical School- Guilan University of Medical sciences

## Fields of Interest

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- 1) Molecular diagnosis of Medical Microbiology.
- 2) Vaccine design for *Helicobacter pylori*.
- 3) Microarray
- 4) Molecular mechanism of apoptosis, Host-pathogen interaction and cell tropism of *Helicobacter pylori*.
- 5) Molecular mechanism of gastric cancer induced by *Helicobacter pylori*.
- 6) Molecular mechanism of antibiotic resistance in Bacteria.
- 7) Molecular Typing of Bacteria.

## Publications

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- 1) Amir Mozaffari N, Forohesh Tehrani H, Salek Moghaddam AR, Ansari H, **Mojtahedi A**. A comprehensive survey of the *Enterobacteriaceae* strains isolated from contaminated food stuffs in the Iran university center for control food, cosmetic and hygienic products. Journal of Ahvaz University of Medical Sciences, June **2002**; 32: 45-50 (In Persian).
- 2) **Mojtahedi A**, Tarrahi M, Sepahvand A, Khakpour A, Radsari E, Tavasoli M, Rezvani A. Frequency determination of *Listeria* contamination in dairy products and their antibiotic resistance pattern, Department for controlling food stuffs, Lorestan. Journal of Yafte (Journal of Lorestan University of Medical Sciences), Autumn **2004**; 6 (22): 27-30. (In Persian).
- 3) **Ali Mojtahedi**, Rasoul Salehi, Farahtaj Navabakbar, Hasan Tamizafar, Hamid Tavakkoli and Vincent Duronio. Evaluation of apoptosis induction using PARP cleavage on gastric Adenocarcinoma and fibroblast cell lines by different strains of *Helicobacter pylori*. Pakistan Journal of Biological Sciences, **2007**; 10 (22): 4097-4102.
- 4) Hajieh Ghasemian Safaei, Hamid Tavakkoli, **Ali Mojtahedi**, Rasoul Salehei, Bahram Soleimani, Ebtehaj Pishva. Correlation of *cagA* positive *Helicobacter pylori* Infection with clinical outcomes in Alzahra hospital, Isfahan, Iran. Journal of Research in Medical Sciences July & August **2008**; Vol 13, No 4.
- 5) Fatemeh Moradian Kouchaksaraei, Elaheh Ferdosi Shahandashti, Zahra Molana, Masomeh Moradian Kouchaksaraei, Fariba Asgharpour, **Ali Mojtahedi**, Ramazan Rajabnia. Molecular detection of integron genes and pattern of antibiotic resistance in *Pseudomonas aeruginosa* strains isolated from intensive care unit, Shahid Beheshti hospital, North of Iran. IJMCM, **2012**; 1 (4). 209-216.
- 6) Shadman Nemati, **Ali Mojtahedi**, Seyyed Ebrahim Naghavi, Rahmatollah Banan, Firoozeh Zia. Investigating *Helicobacter pylori* in nasal Polyposis using polymerase chain reaction, urease test and culture. Eur Arch Otorhinolaryngol, **2012**; 269: 1457-1461.
- 7) **Ali Mojtahedi**, Hossein Khoshrang, Mortaza Rahbar Taromsari, Ehsan Kazemnezhad Leili, Hoorvash Ebrahimi. Bacterial contamination of health care worker's hands in intensive care units in Rasht. Journal of Nosocomial Infection, **2014**; 1 (1), 36-43.
- 8) Seyed Mohammad Mohseni Mehran, Mandana Mansour Ghanaee, **Ali Mojtahedi**. The prevalence of human *Papilloma* virus (HPV) in women using liquid base pap smear in Rasht, Northern of Iran. Journal of Clinical and Diagnostic Research, **2015**; 9 (7), IC01-IC02.

- 9) Shohreh Maleknezhad, **Ali Mojtahedi**, Afshin Safaei-Asl, Zeinab Taghavi, Ehsan Kazemnezhad. Primary antibiotic resistance to *Helicobacter pylori* strains isolated from children in northern Iran: A single center study. *Iranian Journal of Pediatrics*, **2015**; 25 (6), e 2661.
- 10) Setareh Yousefi, **Ali Mojtahedi**, Mohammad Shenagari, Zahra Atrkar-roushan. The relation of *qnr* genes to the induction of resistance to ciprofloxacin in *Escherichia coli*. *SJKU*, **2015**; 20 (5): 52-60.
- 11) Zahra Eghbali, **Ali Mojtahedi**, Malek Moien Ansar, Saba Fakhrieh Asl, Keyvan Aminian. Detection of 23SrRNA mutation strongly related to clarithromycin resistance in *Helicobacter pylori* strains isolated from patients in the north of Iran. *Jondishapour Journal of Microbiology*, **2016**; 9 (2), e 29694.
- 12) Maryam Haghghatpanah, Amir Sasan Mozaffari Nejad, **Ali Mojtahedi**, Nour Amirmozafari, Habib Zeighami. Detection of extended-spectrum b-lactamase (ESBL) and plasmid-borne *blaCTX-M* and *blaTEM* genes among clinical strains of *Escherichia coli* isolated from patients in the north of Iran. *Journal of Global Antimicrobial Resistance*, **2016**; 7: 110–113.
- 13) Asadpour Rahimabadi K., Hashemitabar Gh., **Mojtahedi A.** Antibiotic- resistance patterns in *E. coli* isolated from patients with urinary tract infection in Rasht. *Journal of Guilan University of Medical Sciences*, **2016**; 24 (96): 22-29.
- 14) Asgharzadeh Kangachar Sh, **Mojtahedi A.**, Tabari R. Comparison of clinical laboratory sciences undergraduate pedagogical curriculum at medical universities in Iran with the world's top universities. *Iranian Journal of Medical Microbiology*, **2016**; 10 (5): 1-10.
- 15) Vahideh Javid Khojasteh, **Ali Mojtahedi**, Simin Hosseini, Farahnaz Joukar. Relative frequency of *influenza A/H1N1* viruses in Guilan Region. *Iranian Journal of Medical Microbiology*, **2017**; 11 (5): 83-89.
- 16) Mehran Nemattalab, Mohammad Shenagari, **Ali Mojtahedi**, Mohammad Reza Aghasadeghi, Mohammad Hassan Pouriayevali, Mojtaba Taheri, Mahdieh Mondanizadeh. Design, cloning and expression assay of *oipA* gene in a bicistronic vector harboring mice *IL-18* gene: potential implications for *Helicobacter pylori* vaccine investigations. *J Bas Res Med Sci*, **2017**; 4 (3):1-7.
- 17) Pegah Panahi, **Ali Mojtahedi**, Mohammad Ali Khan Mirzaei, Mohammad Shenagari, Zahra Atrkar Roushan. Isolation, morphological characterization and host range determination of iranian bacteriophages against *Salmonella* reference collection. *Scientific Journal of Kurdistan University of Medical Sciences*, **2017**; 22 (2): 119-128.
- 18) Zare L, Shenagari M, Khan Mirzaei MA, **Mojtahedi A.** Isolation of lytic phages against pathogenic *E.coli* isolated from diabetic ulcers. *Iran J Med Microbiol*. **2017**; 11 (2): 34-41.
- 19) Asgharzadeh Kangachar Sh, **Mojtahedi A.** The presence of extended-spectrum  $\beta$ -lactamase as a risk factor for MDR in clinical isolation of *Escherichia coli*. *Tropical Biomedicine*, **2017**; 34 (1): 98-109.
- 20) Hooshang Gerami, Rahmatollah Banan, Shadman Nemati, Aliakbar Fallahi, **Ali Mojtahedi**, Soheil Soltanipour, Hedieh Ramezani. The Relative Frequency of Allergic Fungal Rhinosinusitis in Patients with Nasal Polyposis in Rasht City, Iran. *Qom Univ Med Sci*, **2017**; 10 (12): 45-53.
- 21) Setareh Yousefi, **Ali Mojtahedi**, Mohammad Shenagari. A survey of *gyrA* target site mutation and *qnr* genes among *Escherichia coli* clinical isolates in the north of Iran. *Jondishapur Journal of Microbiology*, **2018**; 11 (9): e67293.
- 22) Fatemeh Ghaffarian, Mojtaba Hedayati, Hadi Sedigh Ebrahim-Saraie, Zahra Atrkar Roushan, **Ali Mojtahedi**. Molecular epidemiology of ESBL-producing *Klebsiella*

*pneumoniae* isolates in intensive care units of a tertiary care hospital, North of Iran. Cellular and Molecular Biology, **2018**; 64 (7): 75- 79.

**23)** Talayeh Tavakoly, Samar Jamali, **Ali Mojtahedi**, Mohammadali Khan Mirzaei, Mohammad Shenagari. The prevalence of *CMY-2*, *OXA-48* and *KPC-2* genes in clinical isolates of *Klebsiella spp.* Cellular and Molecular Biology, **2018**; 64 (3): 40-44.

**24)** Dariush Naghipour, Seyed Davoud Ashrafi, **Ali Mojtahedi**, Masoud Vatandoost, Loghman Hosseinzadeh, Esmail Roohbakhsh. Data on microbial and physiochemical characteristics of inlet and outlet water from household water treatment devices in Rasht, Iran. Data in Brief, **2018**; 16: 1005- 1009.

**25)** Mahnaz Karimpour, Seyed Davoud Ashrafi, Kamran Taghavi, **Ali Mojtahedi**, Esmail Roohbakhsh, Dariush Naghipour. Adsorption of cadmium and lead on to live and dead cell mass of *Pseudomonas aeruginosa*: A dataset. Data in Brief, **2018**; 18: 1185-1192.

**26)** Saba Fakhrieh Asl, Mehrnaz Pourvahedi, **Ali Mojtahedi**, and Mohammad Shenagari. Analysis of *babA*, *cagE* and *cagA* Genes in *Helicobacter pylori* from Upper Gastric Patients in the North of Iran. Infectious Disorders - Drug Targets, **2018**; 18: 1-6.

**27)** Abed Zahedi Bialvaei, Vajihe Sheikhalizadeh, **Ali Mojtahedi**, Gholamreza Irajian. Epidemiological burden of *Listeria monocytogenes* in Iran. Iran J Basic Med Sci, **2018**; 21 (8): 770- 780.

**28)** Shadman Nemati, **Ali Mojtahedi**, Sina Montazeri, Pegah Alizadeh Pahlavan. Microbial etiology and antibacterial resistance patterns of dacryocystorhinostomy cases in the north of Iran. Asian J Pharm Clin Res, **2018**; 11 (7): 407-411.

**29)** Milad Shahini Shams-Abadi, Mehrdad Halaji, Seyedeh Mahsan Hoseini-Alfatemi, Abolfazl Gholipour, **Ali Mojtahedi**, Hadi Sedigh Ebrahim-Saraie. Epidemiology of toxic shock syndrome toxin-1 harboring *Staphylococcus aureus* obtained from clinical samples in Iran: A Systematic Review and Meta-analysis. Ann Ig, **2018**; 30 (1): 3-12.

**30)** Asgharzadeh Kangachar Sh, **Mojtahedi A.** Evaluation of integrons classes 1–3 in extended spectrum beta-lactamases and multi drug resistant *Escherichia coli* isolates in the North of Iran. Gene Reports, **2018**; 12: 299–303.

**31)** Shadman Nemati, Mohammad Javad Mohammadi, **Ali Mojtahedi**, Maryam Moshtagh Nazm, Pegah Alizadeh Pahlavan. Bacteriological Etiology and Antibiotic Resistance Pattern of Patients with Acquired Chronic Dacryocystitis in the North of Iran. Fresenius Environmental Bulletin, **2018**; 27 (9): 6073-6078.

**32)** Mohammad Shenagari, Masoud Bakhtiari, **Ali Mojtahedi**, Zahra Atrkar Roushan. High frequency of mutations in *gyrA* gene associated with quinolones resistance in uropathogenic *Escherichia coli* isolates from the north of Iran. Iranian Journal of Basic Medical Sciences, **2018**; 21 (12): 1226- 1231.

**33)** Soheila Moradi Bidhendi, **Ali Mojtahedi**, Farshideh Alaei. Identification and Serotyping of *Salmonella* Strains from poultry by PCR-RFLP in Shiraz, Iran. Research J. Pharm. and Tech, **2018**; 11(6): 2591- 2594.

**34)** **Ali Mojtahedi**, Saba Fakhrieh Asl, Keyvan Aminian, Mehrnaz Pourvahedi, Farshid Saadat, Morteza Fallah Karkan. The association between *iceA* and *vacA* allelic gene variations of *Helicobacter pylori* strains and gastric disorders. Gene Reports, **2018**; 13: 94–98.

**35)** Sahar Akhavan, Soheila Ebrahimi, Maryam Navabian, Mahmoud Shabanpour, **Ali Mojtahedi**, Alireza Movahedi Naeini. Significance of physicochemical factors in the transmission of *Escherichia coli* and chloride. Environmental Health Engineering and Management Journal, **2018**; 5 (2): 115–122.

- 36) Sahar Akhavan, Soheila Ebrahimi, **Ali Mojtahedi**, Maryam Navabian, Mahmoud Shabanpour, Alireza Movahedi Naeini. Simulation of columnar transfer and retention of *Escherichia coli* bio-pollutant index in a saline saturated soil. *International Journal of Engineering and Technology*, **2018**; 10 (4): 1067-1075.
- 37) Fatemeh Behoftadeh, **Ali Mojtahedi**, Elham Hooshmandi. Application of Penicillinase in Validation of Sterility Test in Some Injectable  $\beta$ -Lactam Antibiotics. *Research J. Pharm. and Tech*, **2018**; 11(10): 4303-4307.
- 38) Ameneh Najafgholizadeh Pirzamana, **Ali Mojtahedi**, Investigation of antibiotic resistance and the presence of integron genes among ESBL producing *Klebsiella* isolates. *Meta Gene*, **2019**; 19: 37–41.
- 39) Haniyeh Biglari, **Ali Mojtahedi**, Morovat Taheri Kalani, Ali Ashraf, Maryam Shakiba. Investigation of vancomycin susceptibility and toxic shock syndrome toxin 1 gene among *Staphylococcus aureus* strains isolated from patients and ICU staff in the north of Iran. *Gene Reports*, **2019**; 14: 138–141.
- 40) Nour Amirmozafari, Pegah Abbasi, **Ali Mojtahedi**. The prevalence of antibiotic resistance and exfoliative toxin A gene in *Staphylococcus aureus* strains isolated from patients and healthy individuals. *Gene Reports*, **2019**; 15: 100369.
- 41) Esmaeil Roohbakhsh, **Ali Mojtahedi**, Zahra Roohbakhsh, Ramezan Khavari-Nejad, Nour Amirmozafari. Identification of *Gardnerella vaginalis* and *Atopobium vaginae* in women with bacterial vaginosis in Northern Iran. *Infectious Diseases in Clinical Practice*, **2019**; 27 (2): 81–84.
- 42) Roohbakhsh Esmaeil, **Mojtahedi Ali**, Khavari-Nezhad Ramazan Ali, Amirmozafari Nour. Using the PCR method for detection of bacterial vaginosis in women suspected of vaginosis in Guilan province. *IJOGI*, **2019**; 21 (12): 29-36.
- 43) Maryam Haghghatpanah, **Ali Mojtahedi**. Characterization of antibiotic resistance and virulence factors of *Escherichia coli* strains isolated from Iranian inpatients with urinary tract infections. *Infection and Drug Resistance*, **2019**; (12): 2747–2754.
- 44) Meysam Hasannejad-Bibalan, **Ali Mojtahedi**, Haniyeh Biglari, Mehrdad Halaji, and Hadi Sedigh Ebrahim-Saraie. Antibacterial Activity of Tedizolid, a Novel Oxazolidinone against Methicillin-Resistant *Staphylococcus aureus*: A Systematic Review and Meta-Analysis. *Microbial Drug Resistance*, **2019**; 1-8.
- 45) Sahar Akhavan; Soheila Ebrahimi; Maryam Navabian; Mahmoud Shabanpour; Alireza Movahedi; **Ali Mojtahedi**. Investigating the adsorption and filtration indices of bacterial coli transport in the preferential flow system. *Journal of Agricultural Engineering*, **2019**; 42 (1): 1-12.
- 46) Masoumeh Hallajzadeh, **Ali Mojtahedi**, Vahid Pirhajati Mahabadi and Nour Amirmozafari. Isolation and In Vitro Evaluation of Bacteriophage against Methicillin-Resistant *Staphylococcus aureus* (MRSA) from Burn Wounds. *Archives of Clinical Microbiology*, **2019**; 10 (4): 1-8.
- 47) Shadman Nemati, **Ali Mojtahedi**, Soheil Soltanipour, Masoumeh Sharifi garmaroudi, Samaneh Rouhi. Evaluation of Bacterial Species to Determine Antimicrobial Resistance in Patients with Chronic Rhinosinusitis after Surgery of Paranasal Sinuses Referring to Amiralmomenin Hospital in Rasht, 2018. *Scientific Journal of Kurdistan University of Medical Sciences*, **2020**; 106: 1 -13.
- 48) Susan Khanjani, Hadi Sedigh Ebrahim-Saraie, Yalda Malekzadegan, Mehrdad Halaji and **Ali Mojtahedi**. Systematic review of antibacterial activity of eravacycline: a novel fluorocycline against clinically obtained Gram-negative bacteria. *Reviews in Medical Microbiology*, **2020**; 31:11–16
- 49) Mehran Nemattalab, Mohammad Shenagari, Mojtaba Taheri, Mohammad Mahjoob, Foroogh Nazari Chamaki, **Ali Mojtahedi**, Elham Hasan-alizadeh, Babak Ashrafkhani,

Neda Mousavi Niri. Co-expression of Interleukin-17A molecular adjuvant and prophylactic *Helicobacter pylori* genetic vaccine could cause sterile immunity in Treg suppressed mice. *Cytokine*, **2020**; 126: 154866.

**50)** Samar Jamali, Talayeh Tavakoly, **Ali Mojtahedi**, Mohammad Shenagari. The Phylogenetic Relatedness of *bla*NDM-1 Harboring Extended-Spectrum  $\beta$ -Lactamase Producing Uropathogenic *Escherichia coli* and *Klebsiella pneumoniae* in the North of Iran. *Infection and Drug Resistance*. **2020**; 13: 651-657.

**51)** Masoume Hallajzadeh, **Ali Mojtahedi**, Nour Amirmozafari, Vahid Pirhajati Mahabadi. Characterizing a Lytic Bacteriophage Infecting Methicillin-Resistant *Staphylococcus aureus* (MRSA) Isolated From Burn Patients. *Archives of Clinical Infectious Diseases*. **2020** February; 15 (1):e91634.

**52)** Aydin Pourkazemi, **Ali Mojtahedi**, Samaneh Kazemi, Masoud Asgari. Efficacy of Hand rubbing with alcohol based solution versus standard hand washing with soap and water in a Tertiary care Hospital in The North Iran. *Research Journal of Pharmacology and Technology*. April **2020**; 13 (4): 1615- 1618.

**53)** Fatemeh Tahmasbi, Raheleh Sheikhi, Ali Ashraf, **Ali Mojtahedi**. Biofilm formation and molecular characterization of methicillin-resistant *Staphylococcus aureus* strains isolated from the patients, personnel, air and environment of ICUs. *Gene Reports*. **2020**; 20: 100736.

**54)** Niloofar Moein, Fereshteh Naser Alavi, Ashkan Salari, **Ali Mojtahedi**, Amir Tajer. Effect of Listerine Mouthwash with Green Tea on the Inhibition of Streptococcus Mutans: A Microbiologic Study. *Pesquisa Brasileira em Odontopediatria e Clínica Integrada* **2020**; 20:e5477.

**55)** Aref Chakari-Khiavi, Meysam Hasannejad-Bibalan, Fatemeh Shahriaria, Forough Chakari-Khiavi, **Ali Mojtahedi**, Hadi Sedigh Ebrahim-Saraie. Risk of *Helicobacter pylori* infection and childhood asthma in Iran: A systematic review and meta-analysis. *Gene Reports*. **2020**; 20: 100792.

**56)** Susan Khanjani, Hadi Sedigh Ebrahim-saraie, Mohammad Shenagari, Ali Ashraf, **Ali Mojtahedi**, Zahra Atrkar Roushan. In vitro activity of colistin against multidrug resistant *Acinetobacter baumannii* isolates harboring *bla*OXA-23-like and *bla*OXA-24-like genes: A multicenter based study. *Acta Microbiologica et Immunologica Hungarica*. **2020**; 67 (3): 182-186.

**57)** Shadman Nemati, Fahimeh Mohammadghasemi, **Ali Mojtahedi**, Ali Faghieh Habibi, Samaneh Rouhi, Ehsan Kazem Nejad Leili, Mahboobeh Moroosi. The effects of radiofrequency on the bacteriological and histological characteristics of tonsils in patients with chronic and persistent tonsillitis. *American Journal of Otolaryngology*. **2020**; 41 (6): 102657.

**58)** Mahsa Sadeghi, Hadi Sedigh Ebrahim-Saraie, **Ali Mojtahedi**, Iraj Nikokar, Zahra Atrkar Roushan. Genetic diversity and prevalence of aminoglycoside modifying enzymes among *Escherichia coli* strains isolated from inpatients with urinary tract infections. *Gene Reports*. **2020**; 21: 100957.

**59)** Bahareh Lashtoo Aghaee, Mohammadali Khan Mirzaei, Mohammad Yousef Alikhani, **Ali Mojtahedi**, Corinne F. Maurice. Improving the Inhibitory Effect of Phages against *Pseudomonas aeruginosa* isolated from a Burn Patient Using a Combination of Phages and Antibiotics. *Viruses*. **2021**; 13 (334): 1- 16.

**60)** Hadi Sedigh Ebrahim-Saraie, Behzad Dehghani, **Ali Mojtahedi**, Mohammad Shenagari, Meysam Hasannejad-Bibalan. Functional and Structural Characterization of SARS-Cov-2 Spike Protein: An In Silico Study. *Ethiopian Journal of Health Sciences*. **2021**; 31 (2): 213- 222.

- 61) Bahareh Lashtoo Aghae, Mohammadali Khan Mirzaei, Mohammad Yousef Alikhani, **Ali Mojtahedi**. Sewage and sewage-contaminated 3 environments are the most prominent 4 sources to isolate phages against 5 *Pseudomonas aeruginosa*. BMC Microbiology, **2021**; 21 (132): 1-8.
- 62) Peyman Taghizadeh, Sadegh Salehi, Ali Heshmati, Seyed Massoud Houshmand, Kolsoum InanlooRahatloo, Forouzandeh Mahjoubi, Mohammad Hossein Sanati, Hadi Yari, Afagh Alavi, Saeid Amel Jamehdar, Soroosh Dabiri, Hamid Galehdari, Mohammad Reza Haghshenas, Amir Masoud Hashemian, Abtin Heidarzadeh, Issa Jahanzad, Elham Kheyraani, Ahmad Piroozmand, **Ali Mojtahedi**, Hadi Razavi Nikoo, Mohammad Masoud Rahimi Bidgoli, Nayebali Rezvani, Mehdi Sepehrnejad, Arash Shakibzadeh, Gholamreza Shariati, Noorossadat Seyyedi, Seyed MohammadSaleh Zahraei, Iman Safari, Elahe Elahi. Study on SARS-CoV-2 strains in Iran reveals potential contribution of co-infection with and recombination between different strains to the emergence of new strains. Virology, **2021**; 562; 63–73.
- 63) Pegah Shakibnia, Razieh Heidari Ahmadi, Faezeh Fallah, Farnoosh Ebrahimzadeh, Amin Sadeghi Dosari, **Ali Mojtahedi**, Nayereh Hajipour, Maryam Sharifi Luyeh and Majid Taati Moghadam. Iran as the Center of challenges in the Middle East for the Outbreak of COVID-19 Delta Variant. Iran Red Crescent Med J. **2021**; 23 (11):e1394.
- 64) Zohreh Fattahi, Marzieh Mohseni, Maryam Beheshtian, Ali Jafarpour, Khadijeh Jalalvand, Fatemeh Keshavarzi, **Ali Mojtahedi**, and 25 et al. Disease waves of SARS-CoV-2 in Iran closely mirror global pandemic trends. DOI; 10.1101/2021.10.23.21265086.
- 65) M. Sadeghi, H. Sedigh Ebrahim-Saraie and **A. Mojtahedi**. Prevalence of ESBL and AmpC genes in *E. coli* isolates from urinary tract infections in the north of Iran. New Microbe and New Infect **2022**; 45: 100947.
- 66) Majid Taati Moghadam, **Ali Mojtahedi**, Mehrdad Moosazadeh Moghaddam, Mahdi Fasihi-Ramandi and Reza Mirnejad. Rescuing humanity by antimicrobial peptides against colistin-resistant bacteria. Applied Microbiology and Biotechnology. **2022**; 106: 3879–3893.
- 67) Bahareh Lashtoo Aghae, Mohammad Yousef Alikhani, Willem B. van Leeuwen, **Ali Mojtahedi**, Sima kazemi, Pezhman Karami. Conventional Treatment of Burn Wound Infections versus Phage Therapy. Iran J Med Microbiol. **2022**; 16 (3): 186-196.
- 68) Maryam Sharifi Luyeh, Ali Ashraf, Zobin Souri, **Ali Mojtahedi**, Malek Masoud Ansar. Clinical Features and Predictors associated with Mortality in Non-Survived Patients of COVID-19 in a Referral Hospital in Rasht, North of Iran. Iran J Med Microbiol. **2022**; 16 (3): 259-266.
- 69) Majid Taati Moghadam, Nour Amirmozafari, **Ali Mojtahedi**, Babak Bakhshayesh, Aref Shariati and Faramarz Masjedjan Jazi. Association of perturbation of oral bacterial with incident of Alzheimer's disease: A pilot study. J Clin Lab Anal. **2022**; 36:e24483.
- 70) Sekineh Amirjannaty, Nasrin Ghanami Gashti, **Ali Mojtahedi**, Asieh Ashouri, Mohammad Hadi Bahadori. An In vitro Study on the Protective Effect of Melatonin on Human Sperm Parameters Treated by Cadmium. Journal of Human Reproductive Sciences. January-March **2022**; 15 (1): 21-26.
- 71) Maryam Mokhtari, **Ali Mojtahedi**, Nejat Mahdieh, Alireza Jafari and Mohammad Javad Arya. High Prevalence of blaOXA-48 and blaNDM-Producing Carbapenem-Resistant Klebsiella pneumoniae Isolated from Clinical Samples in Shahid Rajaei Hospital in Tehran, Iran. Jundishapur J Microbiol. 2022 October; 15(10):e130804.
- 72) Fatemeh Behoftadeh, Mohammad Faezi Ghasemi, **Ali Mojtahedi**, Khosro Issazadeh, Mostafa Golshekan, Sholeh Alaei. Development of a newly designed biosensor using multi-walled carbon nanotubes (MWCNTs) with gold nanoparticles



(AuNPs) in the presence of acetaminophen for detection of *Escherichia coli*. Archives of Microbiology, 2023, 205(2), 70.

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#### **Awards and Honors**

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- 1) Award for the best article and lecturer in 9<sup>th</sup> National Congress of Microbiology in Kerman University of Medical Sciences, Iran, Kerman, 2008
- 2) Graduated with highest qualification among Ph.D students of Isfahan University of Medical Sciences and introducing to Bonyad Melli Nokhbeghan, 2008.
- 3) Award for the best article and lecturer in 11<sup>th</sup> National Congress of Microbiology and First East Mediterranean Microbiology Congress in Guilan University of Medical Sciences, Iran, Langeroud 2010.
- 4) The top ranking of the best Faculty member in Guilan University of Medical Sciences in 2018.
- 5) The top researcher of Guilan University of Medical Sciences in 2018.
- 6) The top researcher of Guilan Province in 2019.

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#### **Book**

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Influenza virus type A