

Mahnaz Ramezani

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Education:

Islamic Azad of University

- Master of Science (M.Sc), Microbiology, 2013, GPA: 3.55 (out of 4)

Shahid Bahonar University

- Bachelor of Science (BS), Biology, 2008, GPA: 3.26 (out of 4)

Publications:

- 1 **In Vitro Effects of Curcumin in Free and Phytosomal Forms on the Expression of T Helper1 and Regulatory T Cells' Transcription Factors in Collagen-Induced Arthritis** (Advanced Biomedical Research, 2024). Reza Nosratabadi, Mahdi Ranjkesh, Mohammad Safari, **Mahnaz Ramezani**, Nahid Zainodini, Merat Mahmoodi
- 2 **A review of immunological and neuropsychobehavioral effects of latent toxoplasmosis on humans** (Parasite Immunology, 2024). Mohammad Kazemi Arababadi, Seyyed Hossein Abdollahi, **Mahnaz Ramezani**, Mohammad Zare-Bidaki
- 3 **Investigation of Inhibitory Effect of Sheep Lymph Nodes and Antibiotics on Cutibacterium Acnes, Staphylococcus Aureus, and Staphylococcus Epidermidis in the Laboratory** (Journal of Rafsanjan University of Medical Sciences, 2024). Abdolreza Babaee, Zarandi Ebrahim Rezazadeh, Ahmad Shabanizadeh, Zahra Taghipour, Soltani Samereh Dehghani, **Mahnaz Ramezani**, Amir Hesam Khodaei, Mohammad Mohsen Taghavi
- 4 **Apelin receptor antagonist boosts dendritic cell vaccine efficacy in controlling angiogenic, metastatic and apoptotic-related factors in 4T1 breast tumor-bearing mice** (Medical Oncology, 2023). Javad Masoumi, Nahid Zainodini, Pedram Basirjafar, Tayyeb Tavakoli, Raziye Zandvakili, Maryam Nemati, **Mahnaz Ramezani**, Mohammad-Taghi Rezayati, Fatemeh Ayoobi, Morteza Khademalhosseini, Hossein Khorramdelazad, Rostamlou Arman, Abdollah Jafarzadeh
- 5 **Frequency of extended-spectrum beta-lactamases-producing Escherichia coli among out-and in-patients in Rafsanjan City, Iran** (Jundishapur Journal of Microbiology, 2023). Zarandi Ebrahim Rezazadeh, Hamid Hakimi, Reza Bahramabadi, Bidaki Mohammad Zare,

Mahnaz Ramezani, Ali Shojaei, Ali Khodayari, Maryam Fatemipour, Morteza Khademalhosseini, Shokrollah Assar.

- 6 **Effects of nisin on the expression of virulence genes of methicillin-resistant/sensitive *Staphylococcus aureus*** (Iranian Journal of Microbiology, 2022). **Mahnaz Ramezani**, Ebrahim Rezazadeh Zarandi, Nahid Zainodini, Reza Bahramabadi, Shokrollah Assar.
- 7 **Phytosomal curcumin alleviates collagen-induced arthritis by downregulating Th17 and upregulating Treg cell responses in rats** (Asian Pacific Journal of Tropical Biomedicine, 2022). **Mahnaz Ramezani**, Nahid Zainodini, Reza Nosratabadi, Yaser Yousefpour, Zahra Taghipour, Mitra Abbasifard, Mohammad Reza Rahmani.
- 8 **Survey on the Prevalence of *Chlamydia trachomatis* and *Neisseria gonorrhoeae* Infections and Their Possible Effects on Seminal Quality in Infertile Men** (International Journal of Infection, 2020). **Mahnaz Ramezani**, Hamid Hakimi, Nahid Zainodini, Amir Rahnema, Ahmadrza Sayadi.
- 9 **Cell-Free Culture Supernatants of Lactobacilli Modify the Expression of Virulence Factors Genes in *Staphylococcus aureus*** (Jundishapur Journal of Microbiology, 2019). **Mahnaz Ramezani**, Nahid Zainodini, Hamid Hakimi, Ebrahim Rezazadeh Zarandi, Vahid Bagheri, Reza Bahramabadi, Mohammad Zare-Bidaki.
- 10 **The New Compound of (2R, 4S)-N-(2, 5-difluorophenyl)-4-Hydroxy-1-(2, 2, 2-Trifluoroacetyl) Pyrrolidine-2-Carboxamide to Mediate the Expression of Some Apoptosis Genes by the HepG2 Cell Line** (Asian Pacific Journal of Cancer Prevention, 2019). **Mahnaz Ramezani**, Mahin Ramezani, Ali Darekordi, Gholamhossein Hassanshahi, and Mohammad Reza Mirzaei.
- 11 **Demethoxycurcumin: A naturally occurring curcumin analogue with antitumor properties** (Journal of cellular physiology, 2018). Mahdi Hatamipour, Mahin Ramezani, Sayyed Abolghasem Sajadi Tabassi, Thomas P Johnston, **Mahnaz Ramezani**, Amirhosein Sahebkar.
- 12 **Does the Novel Class of (2R, 4S)-N-(2, 5-Difluorophenyl)-4-Hydroxy-1-(2, 2, 2-Trifluoroacetyl) Pyrrolidine-2-Carboxamide's Have Any Effect on Cell Viability and Apoptosis of Human Hepatocellular Carcinoma Cells?** (International Journal of Cancer Management, 2017). **Mahnaz Ramezani**, Gholamhossein Hassanshahi, Mehdi Mahmoodi, Nahid Zainodini, Ali Darekordi, Soudeh Khanamani Falahati-Pour, Mohammad Reza Mirzaei.

- 13 **Design, Synthesis and Evaluation of Antibacterial Effects of a New Class of Piperazinylquinolone Derivatives** (Journal of Heterocyclic Chemistry, 2016). Ali Darehkordi, Mahin Ramezani, Fariba Rahmani, **Mahnaz Ramezani**
- 14 **Isolation and identification of new beneficial bacterial strains from rhizosphere of Citrus sinensis orchards** (Progress in Biological Sciences, 2015). **Mahnaz Ramezani**, Ali Riahi Madvar, Moj Khaleghi, Roohullah Hemmati.

Nucleotide accesss in NCBI

1. ***Pseudomonas putida* strain MR-R5 16S ribosomal RNA gene, partial**
Sequence (GenBank: KC461226.1). Ramezani M., Riahi-Madvar,A, Khaleghi M. 2013
 2. ***Bacillus cereus* strain MR-R3 16S ribosomal RNA gene, partial**
Sequence (GenBank: KC306945.1). Ramezani M., Riahi-Madvar A, Khaleghi M. 2013
 3. ***Bacillus cereus* strain MR-R 16S ribosomal RNA gene, partial**
Sequence (GenBank: JX843766.1). Ramezani M., Riahi-Madvar A, Khaleghi M. 2013
 4. ***Bacillus thuringiensis* strain MR-R1 16S ribosomal RNA gene, partial**
Sequence (GenBank: JX941572.1). Ramezani M., Riahi-Madvar A., Khaleghi M. 2013
 5. ***Bacillus mycoides* strain MR-R4 16S ribosomal RNA gene, partial**
Sequence (GenBank: KC413032.1). Ramezani M., Riahi-Madvar A, Khaleghi,M. 2013
 6. ***Enterobacter kobei* strain MR-R2 16S ribosomal RNA gene, partial**
Sequence (GenBank: KC413033.1). Ramezani M., Riahi-Madvar A, Khaleghi M. 2013
- **Conference Posters**
 - **The effect of carbon-nano tube in comparison with fructose on alpha amylase enzyme activity in *Bacillus cereus* strain MR-R, Ramezani M., Riahi-Madvar A, 13th Iranian Congress of Biochemistry and 5th Molecular Biology Yazd, Iran (16-19April 2013)..**

- **The effect of different source carbon on alpha amylase activity in *Bacillus thuringiensis* MR-R1, Ramezani M., Riahi-Madvar A, 13th Iranian Congress of Biochemistry and 5th Molecular Biology Yazd, Iran (16-19 April 2013).**
- **Antibacterial affects a new class of piperazinylquinolone derivatives on *Bacillus cereus* group, 7th International Iranian, Congress of Clinical Microbiolog Shiraz, Iran (18-22 Ocutober 2013).**
- **Workshop**
 - **PCR and Primer designing** at Graduate University of Advanced Technology (2011).
 - **The principle of Real-time PCR and data analysis (theoretical & practical)** at Graduate University of Advanced Technology (2013).
 - **rRNA sequence analysis with ARB/SILVA software workbench** at in Iranian Biological Resource Center (IBRC) (2014).
 - **Primer designing: Principles and software** at in Iranian Biological Resource Center (IBRC) (2014)
 - **HPLC** at Rafsanjan University of Medical Sciences, Rafsanjan, Iran (2016).
 - **Endnote** at Rafsanjan University of Medical Sciences, Rafsanjan, Iran (2019)

Experience: (projects, jobs, tutorings...)

- 2013 – 2017

Teacher at Payame Noor University, Rafsanjan, Iran.
- 2014- Present
 - ♦ **Researcher at Immunology of Infectious Diseases Research Center, Rafsanjan University of Medical Sciences, Rafsanjan, Iran.**
- 2020-Preseant
 - **Investigating the effect of polymeric nanostructures containing royal jelly on TH17 and regulatory T cells' parameter in PBMC of rheumatoid arthritis patients**
 - Isolation of PBMC
 - Evaluation the impact of nanostructures containing royal jelly on TH17 and regulatory T cells' parameter in PBMC
 - The fold change examination of Fox3, TGF β , IL-17, ROR- γ T genes by RNA extraction and Real time PCR,
 - Assay of cytokine by ELYSA kit.

- **20-20-2021**
- **Evaluation of phytosomal curcumin,s effect on the gene expression of IL12 family on animal model of rheumatoid arthritis**
 - Create rheumatoid arthritis in rat model.
 - Treatment of the rat with of phytosomal curcumin, indometacin
 - Extraction of RNA blood cells of rats
 - Analysis of changes in gene expression IL12, 23,27, 35 by Real time PCR
- **2020-2021**
- **Prevalence of *Clostridium difficile* and and its relation to level of IFN- γ and IL-4 cytokines in acute appanecitis patients**
 - Isolation of *Clostridium difficile* of tissue of appanecitis by microbiology kit
 - Assay of of IFN- γ and IL-4 cytokines by ELYSA kit
- **2020-2021**
- **Frequency of viraemia in patient with Covid-19 disease**
 - Extraction of RNA from blood cell of Covid-19 patients
 - Frequency of viraemia by Real-time PCR
- **Study of effect of sheep lymph nodes on growth *Propionibacterium acne* and *Staphylococcus aureus* in the laboratory condition**
 - Isolation *Propionibacterium acne* and *Staphylococcus aureus* of sheep lymph nodes.
- **Survey of the frequency of extended spectrum β lactamases (ESBLs) *E. coli*, collected from out- and in- patients of Ali Ebne Abi Taleb Hospital, Rafsanjan.**
 - Isolation *E. coli* from - patients of Ali Ebne Abi Taleb Hospital
 - Antibioqram test on Restance isolation of *E. coli* strains
 - PCR assay for identification of SHV, TEM, CTXM genes
- **Evaluiation of surface layer protein A (*slpA*) gene expression among toxigenic and non-toxigenic *Clostridium difficile* isolates in the Sub-minimum inhibitory concentrations of metronidazole, Vancomycin, Clindamycin and Ceftazidime**
 - RNA extraction from isolates

- Real-time PCR assay
- **2019-2020**
 - ♦ **Investigating the effects of phytosomal curcumin on the expression of some inflammatory genes of the rheumatoid arthritis animal model.**
 - ♦ Create rheumatoid arthritis in rat model.
 - ♦ Treatment of the rat with of phytosomal curcumin, indometacin
 - ♦ Extraction of RNA blood cells of rats
 - ♦ Analysis of changes in gene expression IL-17, TGFβ, IL-1, TNFα by Real time PCR
 - ♦ Assay of cytokine by ELYSA kit
- **2017-2018**
 - ♦ **Investigation of the effect of antimicrobial peptide nisin on expression levels of genes involved in virulence of methicillin-susceptible *Staphylococcus aureus***
 - ♦ Bacteria cultivation under different conditions (temperature, time, and various concentrations of nisin)
 - ♦ The fold change examination of virulence-relating genes by RNA extraction and Real time PCR.
- **2017-2018**
 - ♦ **Investigation of the effect of Lactobacillus strains culture supernatants on expression levels of genes involved in virulence of methicillin-susceptible *Staphylococcus aureus***
 - ♦ Bacteria cultivation under different conditions (temperature, time, and various concentrations of supernatant)
 - ♦ The fold change examination of virulence-relating genes by RNA extraction and Real time PCR.
- **2016-2017**
 - ♦ **Evaluation of aqueous saffron effect on viability and Apoptosis in AGS cancer cell lines by MTT and Annexin-V assay**
 - ♦ Evaluation the impact of aqueous saffron on human cancer cell lines like AGS using MTT assay and Annexin staining
- **2016-2017**
 - ♦ **Evaluation of (2R,4S)-N- Aryl-4-hydroxy-1 -(2,2,2 trifluoroacetyl) pyrrolidine-2-carboxamide 's effect on Expression Profile of Apoptosis Genes Using PCR Array Technique**
 - ♦ The fold change examination of apoptosis-relating genes by RNA extraction and Real time PCR.
 - ♦ Investigation profile of apoptosis genes
- **2015-2016**

- ♦ **Evaluation of (2R, 4S)-N- Aryl-4-hydroxy-1 - (2, 2, 2 trifluoroacetyl) pyrrolidine-2-carboxamide's effect on viability and Apoptosis in HepG2 cancer cell lines by MTT and Annexin-V assay.**
- ♦ Evaluation the impact of pyrrolidine-2-carboxamide's on human cancer cell lines like HepG2 using MTT assay and Annexin staining
- **2015-2016**
- Isolation and investigation some heterotroph bacteria from soil orange groves around jiroft and investigation of their amylase activity (master thesis).**
 - ♦ Isolation of some heterotroph bacteria from rizospher
 - ♦ Identification of bacteria by 16srRNA method
 - ♦ Record Nucleotide access in NCBI
 - ♦ Design phylogenic tree
 - ♦ Investigation of amylase activity

Proficiency in.

- Gel electrophoresis, PCR (Real time PCR (qPCR), RT –PCR), SDS- PAGE, Western blotting
- Bacterial cell culture, Eukaryotic cell culture
- ELISA
- SPSS, MEGA 5, ARB/SILVA software, primer design.

Reference:

- **Ali Riahi-Madvar**, Assistant Professor, Department of Biotechnology, Institute of Science and High Technology and Environmental Sciences, Graduate University of Advanced Technology, Kerman, Ir. Email: riahi.ali@gmail.com
- **Mohammad zarebidaki**, Associate Professor, Department of Microbiology, Faculty of of Medicine, Rafsanjan University of medical sciences, Rafsanjan, Iran. Email: mzarebidaki@gmail.com
- **Gholamhossien Hassanshahi**, Professor of hematology, Department of Immunology, Faculty of Medicine, Rafsanjan University of medical sciences, Rafsanjan, Iran. Email: ghassanshahi@gmail.com
- **Mahin Ramezani**,. Ph.D of organic chemistry, Valli-e-asr University of Rafsanjan and Nanotechnology Research center, school, Mashad, Iran. Email: m14ramezani@yahoo.com