

**Mahnaz Ramezani**  
**Immunology of Infectious Diseases Research Center, Rafsanjan University of medical sciences,**  
**Rafsanjan, Iran**  
**Tel: +98 9136412109**  
**Email: mahnazramezani0@gmail.com**

### **Education:**

#### **University of Islamic azad of Kerman**

- 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. Demethoxycurcumin: A naturally occurring curcumin analogue with antitumor properties. ( Journal of cellular physiology, 2018) Hatamipour M, Ramezani M, Abolghasem Sajadi Tabassi S, Johnston P T, Ramezani M, Sahebkar A,**

**2. 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). Ramezani M, Ramezani M, Hassanshahi GH, Mahmoodi M, Zainodini N, Darekordi A, Khanamani Falahati-Pour S, Mirzaei MR**

**3. Design, Synthesis and Evaluation of Antibacterial Effects of a New Class of Piperazinylquinolone Derivatives (Journal of Heterocyclic Chemistry, 2016). Darehkordi A, Ramezani M, Rahmani F, Ramezani M.**

**4. Isolation and identification of new beneficial bacterial strains from rhizosphere of Citrus sinensis orchards. (Progress in Biological Sciences, 2015). Ramezani M, Riahi Madvar A, Khaleghi M, Hemmati R.**

**5. Isolation of orange orchards rhizosphere Bacillus cereus by the ability of  $\alpha$ -amylase secretion (Journal of Microbial World, 2013). Ramezani M, Riahi Madvar A, Khaleghi**

### **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**

### **Conferences in national meetings:**

- **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, 13<sup>th</sup> Iranian Congress of Biochemistry and 5<sup>th</sup> 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, 13<sup>th</sup> Iranian Congress of Biochemistry and 5<sup>th</sup> Molecular Biology Yazd, Iran (16-19April 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).

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

- **2013 – 2017**  
Teacher at Payame Noor University, Rafsanjan, Iran.
- **2013 – 2014**  
Researcher at valie\_a\_sar University of Rafsanjan, Iran
- **2014- Present**
  - ♦ Researcher at Immunology of Infectious Diseases Research Center, Rafsanjan University of Medical Sciences, Rafsanjan, Iran.

- **2016 – Present**
  - ♦ **Instructor at Faculty of Medicine, Rafsanjan University of Medical Sciences, and Rafsanjan, Iran.** (Course: Cellular and Molecular Biology, Advanced Molecular techniques, Environmental biotechnology and Immunology).
- **2018-Preseant**
  - ♦ **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
  - ♦ Isolation of spleen and PBMC from whole blood cells of rat
  - ♦ Analysis of changes in gene expression and regulatory T- cells by Real time PCR
  - ♦ Investigation protein analysis by western blotting.
- **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

**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, Flow cytometry.
- 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](mailto:riahi.ali@gmail.com)
- **Mohammad Zare-Bidaki**, Associate Professor, Department of Microbiology, Faculty of of Medicine, Rafsanjan University of medical sciences, Rafsanjan, Iran. Email: [mzarebidaki@gmail.com](mailto: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](mailto: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](mailto:m14ramezani@yahoo.com)