

Curriculum Vitae

Name and Surname: Mahdi Torkamaneh

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PROFESSIONAL SUMMARY

Quality-focused Lab Technician with 3+ years of experience performing a wide variety of molecular assays such as conventional PCR, Real Time PCR, and cDNA synthesis as well as medical diagnostic testing and chemical analysis of body fluids. Skilled in the area of animal models studies.

Education

- 2016-2020: Laboratory science, B.Sc., Tehran University, Tehran, Iran.

Professional experience

- 2020-Till date: Research Assistance, Department of Bacteriology, Pasteur Institute of Iran

Research summary

I am a researcher who is very interested in the field of clinical laboratory science and medical microbiology in all my undergraduate courses. For the past two years, I have been working as a researcher assistant at the Pasteur Institute of Iran in Tehran. IN MY CAREER, I worked on all aspects of antibiotic resistance, molecular assays, and medical diagnosis.

Technical and spiritual proficiency

Techniques

- **Bacterial culture and identification, and antimicrobial susceptibility testing:** Design of media or primer; isolation and detection of ubiquitous, fastidious or anaerobic bacteria
- **Molecular typing:** PFGE and MLST and other PCR-based typing
- **Protein based techniques:** ELISA, SDS-PAGE, and Western blotting, hplc
- **Animal handling:** Mice/Rats/Rabbit/ Guinea pig

- **Familiar with Eukaryotic cell culture and electron microscopy**

Skills

- **Thinker:** Easily develops novel ideas
- **Research study designer:** Applying a set of procedures properly
- **Team working spirit and leadership:** Flexible
- **Wet-lab working:** Independent
- **Public presentation:** Good verbal speaker with a strong background in teaching

Projects and students

Projects:

- The effect of some heavy metals on the microbiota pattern of gastrointestinal tract in individuals with heavy metals at serum level in a heavy metal contaminated area in Tehran
- The effect of Bifidobacterium and Lactobacillus probiotics cocktails on autophagy signaling pathway in the in-vitro model of Inflammatory Bowel Disease (IBD).
- The executive staff of the first Bacteriology Conference of Pasteur Institute of Iran
- Executive Board of the International Congress of Laboratory Quality Control

Publications

IN PROGRESS ...

- Genome-wide analysis and reverse vaccinology approach to identify novel and immunogenic proteins against multidrug-resistant *Pseudomonas aeruginosa*: A new insight for the post-COVID-19

Conferences/Presentations

- 5 conferences and 2 oral presentations

Book (in Persian)

- Bacterial resistance mechanisms with the health perspective insight
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Academic references

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