



Roaa Khaled El-Sayed



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PROFILE

Assistant lecturer with a master's degree in Microbiology and Immunology.

Five years of teaching and research experience. Possessing excellent skills in different microbiology and molecular biology techniques.

SKILLS

Administrative, teaching and communication skills.

Microbiology Lab skills.

Molecular biology skills.

Academic writing skills.

EDUCATION

2015: Bachelor's degree with a general grade of Distinction Honour in Pharmaceutical Sciences from Faculty of pharmacy, Alexandria University

2019: Master degree in Pharmaceutical Microbiology (Department of Microbiology and Immunology, Alexandria University, Egypt).

REFERENCES

Available on request.

CAREER

2015 - 2016 **Demonstrator**

Department of Microbiology and Immunology, Faculty of pharmacy, Alexandria University

Teaching practical sessions of Pharmaceutical Microbiology and Immunology, Bacteriology, Virology, Parasitology, and Biotechnology.

2015 -Present **Assistant lecturer**

Department of Microbiology and Immunology, Faculty of pharmacy, Alexandria University

Teaching and organizing practical sessions of Pharmaceutical Microbiology and Immunology and Biotechnology.

2016 - 2019 **Researcher**

Department of Microbiology and Immunology, Faculty of pharmacy, Alexandria University

Master degree in Pharmaceutical Microbiology under the title of "A molecular study on cloning of selected antigens from the opportunistic bacterial pathogen *Enterococcus faecium*".

In my research work, I was trying to develop a vaccine to protect against *Enterococcus faecium* infection as one of the ESKAPE pathogens.

This work was under the supervision of Prof. Dr. Hamida Aboushleib, Prof. Dr. Amal Khalil and Assoc. Prof. Dr. Mohammed Bahey-El-Din (Department of Microbiology and Immunology, Faculty of Pharmacy, Alexandria University, Egypt).

During my work, I have learned many microbiological molecular biology techniques including briefly;

- Bacterial cultivation, isolation, and identification
- Antibiotic susceptibility testing and MIC determination
- Using different Bioinformatics analysis tools
- PCR and Agarose gel electrophoresis
- Gene cloning
- Induction of protein expression
- Target protein purification under denaturing and native condition, Protein refolding using Sephadex column.
- SDS-PAGE
- In-vivo analysis using mice as animal model
- ELISA, Western blot assay
- Spleenocytes proliferation assay

2019 - present **Researcher**

PhD student at Department of Microbiology and Immunology, Faculty of pharmacy, Alexandria University