



# 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 different skills in 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's degree in Pharmaceutical Microbiology (Department of Microbiology and Immunology, Alexandria University, Egypt).

## REFERENCES

Available on request.

## CAREER

2015 - 2019 **Demonstrator**  
**Department of Microbiology and Immunology, Faculty of Pharmacy, Alexandria University**  
Teaching practical sessions on Pharmaceutical Microbiology and Immunology, Bacteriology, Virology, Parasitology, and Biotechnology.

2016 - 2019 **Researcher**  
**Department of Microbiology and Immunology, Faculty of Pharmacy, Alexandria University**  
Master's 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:

- 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 conditions, Protein refolding using Sephadex column.
- SDS-PAGE.
- In-vivo analysis using mice as an animal model.
- ELISA, Western blot assay.
- Spleenocytes proliferation assay.

2019 - present **Assistant lecturer and a Ph.D. student**  
**Department of Microbiology and Immunology, Faculty of Pharmacy, Alexandria University**  
Teaching and organizing practice sessions in Pharmaceutical Microbiology, Immunology, and Biotechnology.

Ph.D. student at Department of Microbiology and Immunology, Faculty of Pharmacy, Alexandria University.