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## ○ **Work**

- Demonstrator in the Genetics and Genetic Engineering Department, Faculty of Agriculture Banha University (2023 until now)

## ○ **Education**

- Bachelor of Agricultural Sciences, Banha University, Faculty of Agriculture Department of Biotechnology (Jul 2023).

## ○ **Experience**

- Graduation project” Carbon nanotubes for breast cancer therapy: therapeutic applications and toxicity potentials”. (2022 –2023)

## ○ **Conferences**

- Empowering Egyptian Researchers Across Borders (ERAB) in Children's Cancer Hospital Egypt 57357. (2023)

## ○ **Techniques**

- DNA, RNA Extraction
- PCR
- GEL Electrophoresis
- Real-Time PCR
- Gene expression
- ELIZA
- Flow Cytometry
- Animal cell culture, IC50, Cell cycle assay, Apoptosis assay, and MTT measurements
- basic microbiology

## ○ **TRAINING**

- Basic Bioinformatics (2024)
- MOLECLAR Diagnostic (2023)
- Basic Nanotechnology (2023)
- Basic Microbiology (2023)
- Basic and Advanced Molecular Biology Techniques in Medical Applications CEB "Creative Egyptian Biotechnology". (2022)
- Drug Design Course Plasma and I-Mole Lab. (2022)
- Basics Microbiology and Practical Course of Bacterial Identification and Phylogenetic Analysis National Gene Bank (2022)

## ○ **Achievements**

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|------------------|---|
| (2023) 3rd place | The Undergraduate Research Initiative Competition poster is entitled “ Carbon Nanobots for Breast Cancer Therapy: Therapeutic Applications and Toxicity Potentials.” Faculty of Science, Tanta University, Egypt. |
| (2023) 3rd place | National Biotechnology Competition Science Operated Leaders in Egypt "Soul" Hosted by Helwan University entitled “ Carbon Nanobots for Breast Cancer  |

- (2023) 2<sup>nd</sup> place Therapy: Therapeutic Applications and Toxicity Potentials.”  
Annual Student Conference for Applied Science, Banha University poster  
allowed Carbon nanobots for breast cancer therapy: therapeutic applications and  
toxicity potentials.
- (2023) A jury in the Egyptian Junior Researcher Competition at Nile University 40  
projects in the biotechnology field