

Ahmed Morsi

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EDUCATION

UC Berkeley

B.A Molecular and Cell Biology: Biochemistry and Molecular Biology

Cairo American College

IB Diploma

Berkeley CA

Ongoing

Cairo, Egypt

June 2018

KEY SKILLS

Gene extraction, PCR, genome editing using restriction enzymes, spectrophotometry, fluorescent microscopy, gel electrophoresis, BLAST, FASTA, creating procedures for labs, and plasmid mapping

EXPERIENCE

Three Research Papers

Cairo, Egypt

- Comparing the emulsification power of antibacterial and regular soap, assessing the efficiency of urea and ammonium nitrate as active ingredients in instant ice packs, and comparing the effect of different refrigeration techniques on milk pH over time
- Designed, executed, and wrote all the papers, received occasional guidance from teachers
- Provided invaluable experience in critically thinking about procedures and analyzing data

Johns Hopkins Summer Course, Introduction to Lab Research

Baltimore, MD

- Mainly focused on microbiology, special emphasis placed on sterility and proper handling
- Extracted DNA from plant and prepared sample for sequencing, used BLASTA and FASTA to identify the sample's species
- Given an unknown plasmid, successfully mapped the plasmid using restriction enzymes and gel electrophoresis
- Frequently preformed PCR, genome editing using restriction enzymes. Analyzed results using spectrophotometry, fluorescent microscopy, and gel electrophoresis

INTERESTS

Interested in conducting research on biotechnology and the industrial uses of genetic engineering. Looking to intellectually contribute to a laboratory, to be immersed in the scientific community, and to gain a better understanding of what it means to be a lab researcher.