

ABDULLAH AMR MOHAMMED

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Summary:

"A biotechnologist and science communicator with expertise in molecular biology, specializing in research, education, and science communication to bridge the gap between scientific discovery and practical application in academic and professional settings."

EDUCATION

Misr University for Science and Technology (MUST), 6th of October, Giza, Egypt. 2019 - 2023

Bachelor's Degree in Biotechnology

CGPA = **3.3V** out of 4

Percentage = **83.68%**

Very Good (B+) With Honor

Thesis:

Title: "The Effect of Probiotic Supplementations on Dysbiosis and Dysregulation of Gut Microbial Metabolites in a Simulated Microgravity Environment"

RESEARCH AND ACADEMIC EXPERIENCE

Alamein International University, Faculty of Science, Dep. Biotechnology, Egypt. Sep 2024 – Present

Teaching Assistant & General Coordinator for Science Communication

- Redefined Molecular Biotechnology, Cell Culture, Developmental Biology, Anatomy, Histology & Pathology education by overcoming challenges and implementing innovative, hands-on learning strategies.

Outlier, Oakland, California, United States (Remote) Jan 2024 – Sep 2024

AI Molecular Biology Expert Trainer

- Developed and trained AI models to simulate and troubleshoot molecular biology techniques, achieving a 90% accuracy in predictive performance.

BABIRUS Research and Diagnostic Lab, Egypt. Apr 2023 – Oct 2023

Scientific Delegator & Research Assistant

- Successfully generated over 40k EGP in profit within the first month of establishing the lab.
- Spearheaded innovative lectures, trainings, and laboratory methods, significantly enhancing research capabilities for undergraduates, master's, and doctoral candidates. My pioneering approach set new academic standards and garnered accolades and recommendations for advancing the company's research objectives.

Research Lab Assistant

- Provided scientific research and training by delivering cutting-edge laboratory methods to support researchers. My contributions significantly enhanced the lab's academic services.

WORK AND TRAINING EXPERIENCE

BU Event, Zewail City of Science and Technology.

Mar 2024

Science Communicator

- Actively engaged in leading offline public workshops, focusing on the dynamic field of biotechnology and its crucial role in space exploration. Highlighted the cutting-edge scientific tools available in Egypt that are propelling pioneering research in space biotechnology.

Food and Agriculture Organization (FAO) Model, MUST University.

Mar 2024

Lecturer

- Conducted comprehensive online lectures on biotechnology, utilizing multimedia tools and interactive elements to engage students.
- Developed course materials and assessments, receiving positive feedback from students for clarity and effectiveness.

Food and Agriculture Organization (FAO) Model, New Vally University.

13 Aug 2023 – 16 Aug 2023

Lecturer

- Led two online sessions on molecular biology techniques for junior students at New Valley University, providing foundational knowledge in basic laboratory techniques.

Science Land, American University in Cairo – Geek Campus.

27 Oct 2022 – 28 Oct 2022

Science Communication Speaker

- Delivered two offline public presentations, "Space Medicine" and "Space Biotechnology" at the American University in Cairo - Geek Campus, tailored for medicine and science students, respectively.

Food and Agriculture Organization (FAO) Model, Beni Suef University.

Sep 2022

Lecturer

- Conducted a public presentation for biotechnology enthusiasts at Beni Suef University.

Biotech World Conference, Egypt

Mar 2022

Guest Speaker

- Presented on "Space Biotechnology" at the Biotech World Conference, discussing the innovative role of biotechnology in the space industry and advocating for its development in Egypt to benefit various sectors.

Arab Organization for Industrialization (AOI) – Engine Factory, Egypt.

2021

Internship Trainee

- Completed an internship, performing chemical analyses of water, ores, and fuels.

Freelance, Remote

2019 – 2021

Freelancer

- Engaged in diverse freelance projects encompassing Artificial Intelligence (AI) Biology Training, marketing, graphic and banner design, flyer creation, video editing, content and scientific writing, and voice-over services, showcasing versatility and adaptability in delivering high-quality creative solutions.

Armed Forces Veterinary Hospital, Egypt

2019 – 2020

Co-instructor

- Actively participated as a co-instructor in various workshops, focusing on molecular biology and genetics techniques, enhancing participants' practical skills and theoretical knowledge.

VOLUNTEERING AND EXTRA-CURRICULAR ACTIVITIES

Behind The Universe, Zewail City for Science & Technology, Egypt.

Sep 2022 – Sep 2024

Head of Science Communication & Journalism Committee

- Enhanced scientific communication and journalism through innovative concepts and strategies, earning recognition for a leadership role. Led breakthrough initiatives across scientific domains and organized successful scientific communication events in 2023 and 2024, demonstrating leadership, strategic planning, and commitment to advancing science communication.

Students' Union of Biotechnology at MUST University, Egypt.

2019 – 2023

Head of Culture & Media Committee

- Led a team to execute tasks efficiently, collaborated with administration to address student concerns, and enhanced culturally focused marketing and media designs for university and union events. Improved strategies and fostered effective communication.

The Administration of The College of Biotechnology, MUST University, Egypt.

2022

Organizer

- Participated effectively in the organization of the 2nd International Biotechnology Conference held on 15-16 Feb 2022 at MUST Opera House.

Quality Assurance Unit at MUST University, Egypt.

2021

Participant

- Actively contributed to the College's Quality Assurance Unit by addressing student concerns, proposing syllabus changes, improving Intended Learning Outcomes (ILOs), and assisting in the successful college accreditation by The National Authority for Quality Assurance and Accreditation.

SKILLS & LANGUAGES

Professional Skills: Microsoft Office (Professional), Content Writing, Market Research, Scientific Research, Marketing Campaign Management, Programing (Beginner), Troubleshooting.

Soft Skills: Leadership, Team Working, Strong Communication, Self-Learning, Presentation Skills, Dependability, Problem-Solving, Critical Thinking, Willingness to Learn.

Research Skills: Biosafety Procedures, Culture Techniques, Polymerase Chain Reaction (PCR), Microarray, Enzyme-Linked Immuno-Sorbent Assay (ELISA), DNA & RNA Extraction, DNA Fragmentation Assay (Comet Assay), Amino Acids Analysis, Stem Cells Isolation, Gel Electrophoresis.

Languages:

Arabic: Mother language (Native)

English: Professional (C1)

HONORS AND AWARDS

Outstanding Academic Achievement Award

Awarded by: The Administration of The College of Biotechnology, MUST University

- Awarded a certificate of honor for my outstanding academic achievement during the academic year 2022-2023. As I demonstrated exceptional dedication and consistently achieved outstanding grades. My commitment to excellence was an inspiration to all.

Conference Presentation Award

Awarded by: Biotech World Organization & BioCity Company

- Shield and Certificate of Honor was awarded for my effective contribution and sharing valuable knowledge as a guest speaker during Biotech World Conference on 13th August, of the year 2022.

PROFESSIONAL AFFILIATIONS

The American Society for Microbiology, Washington, USA

Apr 2022 – Present

Contributing Member

- Engaged in networking with fellow microbiologists and stay updated on latest research and practices in the field.

Teaching Philosophy

“As an educator, I aim to foster a stimulating learning environment that encourages critical thinking and practical application of molecular biology concepts. I believe in using interactive and hands-on teaching methods to engage students and enhance their understanding of complex scientific topics. My goal is to inspire and support students in their academic and professional growth.”

REFERENCES

Reference 1: Dr. Ibrahim Ali

- General Manager of BABIRUS Egypt

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Phone 1: +20 100 158 6642

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Reference 2: Dr. Moez El- Saadani

- Assistant Professor at Faculty of Biotechnology, MUST University

- Editor at JOVE Journal of Visualized Experiments

- Reviewer at Food Chemistry Journal, Elsevier

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Reference 3: Dr. Shaimaa Eid

- Associate Professor of Cancer Genetics

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Reference 4: Dr. Amal Mahfouz

- Lecturer Of Immunology

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