

ABDUL-RAHMAN ABOLORE SULAIMAN

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Professional Summary

Graduate researcher with specialization in Biology, Cell Biology, Botany, Genetics, and Biochemistry. Experienced in molecular biology, phytochemistry, and genetic diversity analysis with practical applications in crop improvement and sustainable agriculture. Proficient in biochemical and molecular techniques, scientific writing, and student mentorship. Passionate about advancing biochemistry education and research to address challenges in food security, health, and sustainable development.

Education

University of Lagos, Nigeria

M.Sc. Cell Biology and Genetics (Specialization in Plant Breeding, Genetics, and Biochemistry) |
Jan. 2024 – Feb. 2025

B.Sc. (Hons.) Botany | Sept. 2016 – Dec. 2021.

Work Experience Experience

Lecturer of Biological Sciences- Yaba College of Technology.

Lecturer | Dec. 2025 – Till Date.

Curriculum Delivery: Facilitate National Diploma (ND) and Higher National Diploma (HND) courses in Biological Sciences, ensuring alignment with NBTE standards.

Practical Instruction: Lead weekly laboratory sessions in the Science Laboratory, focusing on microscopy, specimen analysis, and biochemical assays.

Academic Advising: Serve as a Level Adviser, managing student records, calculating GPA/CGPA, and providing career mentorship.

Laboratory Management: Maintain laboratory safety protocols and oversee the calibration and inventory of biological research equipment.

Committee Participation: Active member of the Departmental Examination Committee, responsible for invigilating exams and upholding academic integrity.

Mainland Senior High School - Agricultural Science Teacher | May. 2022 – Mar. 2023

- Designed and delivered engaging agricultural science lessons, ensuring a clear understanding and applying critical concepts.
- Facilitated practical learning experiences, bridging theoretical knowledge with real-world applications, leading to improved student performance.
- I have prepared students for their Senior Secondary Certificate Examination (SSCE), contributing to a high success rate.

Research & Academic Experience

Molecular Biology Research Laboratory, Lagos University Teaching Hospital

Graduate Research Intern | Sept. 2024 – Nov. 2024

- Conducted DNA/RNA extraction and PCR analysis for genotyping.
- Applied biochemical and molecular techniques for environmental and agricultural sustainability.
- Designed and optimized PCR protocols for genetic and biochemical assays.
- Collaborated on laboratory projects exploring biochemical pathways.
- Documented results, prepared reports, and contributed to academic discussions on plant molecular biochemistry.

Eco-Analytics and Recycling Solutions (ERS)

Research Fellow | Nov. 2023 – Feb. 2024

- Conducted biochemical and molecular analysis in waste characterization projects.
- Supported development of sustainable biochemical recycling processes.
- Drafted technical reports with emphasis on biochemical implications for environmental conservation.
- Collaborated with LAWMA and C-40 on sustainability initiatives with biochemical relevance.

Master's Research Project – University of Lagos

- Molecular and Biochemical Analysis of Maize (*Zea mays* L.) Landraces from South-Western Nigeria and IITA Collections
 - Evaluated genetic and biochemical diversity for crop adaptability and resilience.
 - Applied molecular and biochemical marker analysis for maize improvement studies.
 - Analyzed biochemical pathways influencing stress tolerance and productivity.
 - Presented findings in academic seminars, highlighting biochemical and genetic linkages.
 - Recommended strategies for improving maize biochemistry-based resilience in Nigerian agroecological zones.

Undergraduate Research Project – University of Lagos

- Phytochemical and Anti-Microbial Analysis of *Cissus quadrangularis*
 - Identified key bioactive compounds (alkaloids, flavonoids, phenolics, etc.).
 - Evaluated antimicrobial activity using biochemical assays.
 - Demonstrated pharmacological potential of plant extracts through biochemical pathways.
 - Authored a detailed thesis report with strong biochemical interpretation of findings.

Leadership & Volunteering

Muslim Students' Society of Nigeria (MSSN), Somolu Area Council

President | Jul. 2020 – Present

- Directed organizational strategy and coordinated educational programs.
- Organized seminars and workshops with biochemistry and science education themes.
- Mentored students in academic development and personal growth.
- Spearheaded community initiatives linking science, education, and sustainability.

UNILAG Green Hub – Intern

- Conducted workshops on composting, organic farming, and biochemical waste-to-fertilizer conversion.
- Designed and implemented projects on soil and biochemical health.
- Collaborated with researchers on biochemical aspects of sustainable agriculture.
- Produced training materials linking biochemistry to practical farming practices.

Skills

- Biochemical Techniques: Phytochemistry, Enzyme Assays, Bioactive Compound Analysis
- Molecular Biology: PCR, DNA/RNA Extraction, Sequencing, Gel Electrophoresis
- Genetics & Breeding: Genetic Diversity, Marker-Assisted Selection, Trait Analysis
- Bioinformatics: Genetic Data Analysis, Biochemical Pathway Evaluation
- Research & Teaching: Laboratory Instruction, Academic Writing, Project Supervision
- Professional: Project Management, Data Analysis, Scientific Communication

Certifications

- Waste Economy and Recycling – USADF/LSETF
- Sustainable Agriculture & Soil Health Management – UNILAG Green Hub
- Circular Economy & Waste Management – CEIP

References

Prof. A. O. Adeyemo – Department of Cell Biology, University of Lagos |
aoadeyemo@unilag.edu.ng

Dr. Abdul Ghaniy Adelopo – Principal Quality Control Officer, UNILAG Green Hub |
aadelopo@unilag.edu.ng

Dr. Adeonipekun – Department of Botany, University of Lagos | aadeonioekun@unilag.edu.ng