

AMIDA, UMMHANI OYINDAMOLA

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PROFESSIONAL SUMMARY

Detail-oriented research enthusiast specializing in Cell Biology and Genetics with expertise in bioinformatics, molecular diagnostics, and genetic research. Experienced in utilizing bioinformatics tools to analyze genetic data, particularly in the study of biofilm formation in *Pseudomonas aeruginosa*. Skilled in molecular biology techniques, data analysis, and scientific writing, with a strong background in project management and collaborative research. Passionate about contributing to advancements in drug discovery and genomic medicine through innovative research in bioinformatics and molecular genetics.

CORE COMPETENCIES

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| ● Bioinformatics & Data Analysis | ● Scientific Writing & Presentation |
| ● Molecular Techniques | ● Statistical analysis |
| ● Project Management & Coordination | ● DNA/RNA extraction |
| ● Laboratory Research | |

Tools: Microsoft Office Suite, Python,

Soft Skills: Leadership, Communication, Adaptability, Collaboration, Problem Solving, and Teamwork

Interests: Bioinformatics, Antimicrobial Resistance, Drug Discovery, Infectious Diseases, Molecular Biology, and Host-Pathogen Interactions.

RESEARCH AND PROFESSIONAL EXPERIENCE

Biological Sciences Department, Microbiology Unit, Yaba College of Technology

Assistant Lecturer

Lagos, NGA

Nov 2025-Till date

Cell Biology and Genetics Department, University of Lagos

MSc Research

Lagos, NGA

Mar 2024–Dec 2025

- Utilized advanced bioinformatics tools to process and analyze genetic data from *Pseudomonas aeruginosa*.
- Conducted in-depth gene sequence alignment to identify key genes involved in biofilm formation, proposing these genes as potential therapeutic targets.
- Identified novel drug targets and presented findings to faculty, resulting in the recommendation to explore these targets in therapeutic drug discovery.
- Analyzed the regulatory networks involved in biofilm formation to suggest potential inhibitors for the treatment of antibiotic-resistant infections.
- Contributed to a research paper under preparation for publication in a peer-reviewed journal, showcasing my data analysis and scientific writing skills.

Nigerian Institute of Medical Research (NIMR)

Graduate Research Trainee (NYSC)

Lagos, NGA

Jul 2022 – Feb 2023

- Conducted hands-on molecular diagnostics, processing over 200 viral samples for HIV and Hepatitis B & C using Cobas Ampliprep and Sysmex Partec's CyFlow Counter.
- Collaborated with a team of 5 to carry out DNA/RNA extraction from patient samples for analysis of infectious diseases such as HIV, Hepatitis, and COVID-19, significantly improving sample throughput by 20%.
- Assisted in designing and implementing assays, streamlining lab protocols, and reducing analysis time by 15%, enhancing overall research efficiency.
- Delivered biweekly presentations to senior researchers, summarizing findings, challenges, and improvements in ongoing diagnostic work.

Halal Certification Authority (HCA)*Graduate Trainee**Lagos, NGA**Feb 2022 – Jul 2022*

- Coordinated the logistics for the 3rd International Halal Seminar, increasing event participation by 30% and ensuring seamless event execution.
- Facilitated cross-departmental communication between administrative, marketing, and technical teams, streamlining event coordination.
- Managed client databases, ensuring accurate records of clients and communications, and processed lab sample requests efficiently.

National Agency for Food and Drug Administration and Control (NAFDAC)*Industrial Training Student**Lagos, NGA**Nov 2021 – Jan 2022*

- Managed the analysis of over 100 pharmaceutical and cosmetic samples using techniques such as sterility testing, friability tests, and microbial limit tests.
- Conducted antimicrobial resistance testing on drug samples, contributing to the identification of potential quality assurance issues in drug production.
- Played a key role in the organization's quality control team, ensuring that all analytical data was accurately recorded and maintained.
- Assisted in writing detailed reports and making recommendations for improvements to laboratory procedures, contributing to an enhanced testing protocol.

PROJECT AND TRAINING

Nobleheart Children Foundation*Team Member**Lagos, NGA**Jan 2017–May 2021*

- Participated in planning and organizing community outreach initiatives that provided essential resources and support to underprivileged children in Lagos.
- Assisted in fundraising efforts, helping to raise over ₦500,000 for educational and health supplies for children.

EDUCATION AND CERTIFICATION

University of Lagos*MSc. Cell Biology and Genetics (Cell and Molecular Biology option)**Lagos, NGA**Jan. 2024–Dec, 2025*

- **Dissertation:** *Bioinformatics-Driven Identification of Key Genes Involved in Biofilm Formation in Pseudomonas aeruginosa*
- Relevant Coursework: *Bioinformatics & Computational Biology, Molecular Genetics, Advanced Cell Biology, Molecular Pathogenesis, Research Methods in Genetics*

University of Lagos*B.Sc. in Microbiology (Second Class Upper)**Lagos, NGA**Nov. 2016 - Jun. 2021*

- Relevant Coursework: *Microbial Genetics, Immunology, Molecular Biology, Environmental Microbiology*

Applied Bioinformatics Workshop, Omics Diagnostics Limited*Certificate of Facilitation**2025***Chemo-informatics Academy Training***Computer-Aided Drug Design**2024***Jobberman***Soft Skills Training**2020***REFERENCES**

Available on request