**KEHINDE ISAIAH JOSHUA**

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BSc (Hons) Chemistry August 2014 – August 2019

Ekiti State University, Ado-Ekiti, Ekiti State, Nigeria

MSc. Chemistry August 2022 – August 2024

University of Maryland (R1)

PhD Chemistry Jan 2025- May 2025

Howard University (R1)

**Research Experience**

PhD Research Experience (University of Maryland) 20hrs/week

**Characterization of Binding Interaction Between BCSZ and Phosphoethanolamine, Cellulose, and Acetylated Cellulose.**

* Designed and synthesized Novel Phosphoethanolamine cellulose from a mimetic of thiol-glycosylated disaccharide (cellobiose).
* Designed and synthesized a Novel N-acetyl hexosaminidase Inhibitor from the monosaccharide unit of D-xylose.
* Nuclear Magnetic Resonance (NMR) and mass Spectrometry (MS) were utilized for structure determination and characterization.

PhD Research Experience (Howard University) 40hrs/week

Professor Oladapo Bakare

**Innovative Approaches to Identify and Characterize Tryptophan Analogs as Substrates for LAT1 using Surface Plasmon Resonance and Fluorescence Detection.**

* Designed and synthesized Novel Fluorescent Tryptophan Analogs for (LAT1), including 7, 6, 5, 4, -AZA Analogs.
* Utilized Fluorescence imaging to visualize tryptophan analogs by Fluorescence Microscope.
* Nuclear Magnetic Resonance (NMR) and mass Spectrometry (MS) were used for structure determination and characterization.

**Presentations (Since 2022)**

* Characterization of Binding Interaction between BCSZ and Phosphoethanolamine Cellulose and Acetylated Cellulose.
* Immobilizing Recombinant Endoglucanase (CelA) and Inorganic Catalyst (AlCl3) onto Regenerated Cellulose Membrane Surface to Enable Esterification of Alcohols and Carboxylic Acids.
* Revisiting the Balz−Schiemann Reaction of Aryldiazonium Tetrafluoroborate in Different Solvents under Catalyst- and Additive-Free Conditions.
* Investigating the role of fluorescent tryptophan analogs as a substrate for LAT1.

**Industrial Experience**

**Overland Airways Limited** September 2021- April 2022

*Quality Control Analyst*; Risk Management Department

* Performing technical-quality analysis on aviation fuel, de-icing fluids, and fumigation chemicals to ensure they are following Federal Safety Regulations.
* Monitoring flight electronic data, oil consumption trend and engine conditions to create a reliability report for the aircraft.

**Oyeladun Ajile Polymer Industry** December 2020 - January 2022

*Quality Control Analyst;* Polyethylene Quality Control Department

* Developed methods for polyethene bags, plastic bags, plastic bottles and poly film production and ensure they meet the company’s specification standard.
* Measurement of additive and copolymer levels of polymer product using NIR Spectrophotometer.
* Performed various analytical, physical and chemical tests on plastics and polyfilms at all stages of the production process from raw materials to the final products.

**Skills**

\*Expert in designing and executing in vitro/vivo studies, developing assays, and summarizing data. Proactive in addressing knowledge gaps by leveraging colleagues’ expertise while maintaining confide

\*I am a Strong analytical thinker, adept at communicating challenging perspectives effectively across all organizational levels.

\* I have Proven ability to manage timelines (granular to general), accelerate deliverables, and mitigate risks.

\* I am Skilled at influencing without authority and coordinating cross-functional teams to achieve.

\*I am excellent at articulating, extracting, and synthesizing complex issues into key focus points.

\* Problem-Solving & Collaboration: Demonstrated creative problem-solving, internal collaboration, and effective external partner

\*I am Passionate and experienced in rare disease or genetic medicine (gene therapy, gene editing).