

ESTHER CHUKWUDUMEBI DIBIE

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EDUCATIONAL QUALIFICATIONS

BSc University of Benin, Nigeria, Medical Biochemistry January 2018
FIRST CLASS HONORS
Thesis: Effects of aqueous extracts of *Acalypha wilkesiana* on liver function and selected liver oxidative stress biomarkers in male wistar rats.
Supervisor: Dr. (Mrs.) OLUBODUN

RESEARCH EXPERIENCE

Research Intern April 2024 – May 2024
Companionship in Labour Research Project
Supervisor: Prof. Friday Okonofua (Centre Leader, Centre of Excellence in Reproductive Health and Innovation)
Study Targets: Effects of companionship during labour and childbirth on women's experiences in respectful maternity care centers in Edo State, Nigeria.

- Qualitative and quantitative Data collection and entry
- Transcription of audio-based interviews, conducted amongst patients and healthcare givers in mapped out hospitals in Edo State, for research purposes.

Research Intern May 2024 - June 2024
Endometriosis Project
Supervisor Prof. Friday Okonofua (Centre Leader, Centre of Excellence in Reproductive Health and Innovation)
Study Targets: Female students living in school hostels in the University of Benin, Benin City.

Research Intern July 2024 - August 2024
Maltreatment During Labour Project
Supervisor : Dr. Debra Eluobajo (Medical Doctor, John Hopkins Hospital)
Study Targets: Conduction of quantitative and quantitative analysis on Nursing mothers who gave birth in hospitals in Edo State.

Research Intern August 2023 – November 2023
Biomedical Laboratory, Centre of Excellence in Reproductive Health Innovation (CERHI)
Supervisor: Prof. Friday Okonofua (Centre Leader, Centre of Excellence in Reproductive Health and Innovation)

- Worked on research samples, using standardized laboratory equipment, to achieve results
- Involved in day-to-day functioning of the lab, including carrying out malaria parasite tests, HIV tests, syphilis tests, hepatitis tests, pregnancy tests and other laboratory analysis.
- Participated in the University of Benin Annual Research Day (UBARD) conference and carried out free malaria parasite test, hepatitis test, HIV tests and other clinical diagnostics.

Research Intern December 2023 — March 2024
Stimulation Laboratory, Centre of Excellence in Reproductive Health Innovation (CERHI)

- Gained hands-on experience using high-fidelity simulation mannequins to replicate real-life medical scenarios, such as labor, delivery, and patient monitoring.
- Assisted in training sessions for healthcare professionals on the use of simulation technology to enhance patient care.

- Participated in training programs led by experts from Boston Hospital, learning advanced techniques in reproductive health simulation.
- Contributed to the setup and maintenance of simulation equipment to ensure seamless operation during training sessions.
- Observed and documented simulation sessions to evaluate participants' performance and provide constructive feedback for improvement.

Research Intern.

April 2024 — July 2024

Molecular Laboratory, Centre of Excellence in Reproductive Health Innovation(CERHI)

- Gained foundational skills in molecular laboratory techniques, including sample preparation and basic equipment handling.
- Assisted with routine laboratory activities, such as reagent preparation and equipment maintenance.
- Supported ongoing research by organizing and documenting experimental data under the supervision of senior laboratory staff.
- Participated in discussions about molecular approaches to reproductive health challenges during weekly lab meetings.
- Shadowed experienced researchers to better understand the role of molecular biology in addressing infertility and related conditions.

Research Intern

January 2023- May 2023

TRIGAS Research Institute

Supervisor: Prof. Akhere Omonkhua (Professor of Medical Biochemistry)

- Worked on my undergraduate research, concerned with the therapeutic usefulness of aqueous plant extracts of *Acalypha wilkesiana* on liver function and oxidative stress biomarkers in male wistar rats, and carried out some laboratory analysis including liver function tests, kidney function tests amongst others. Laboratory equipment used were spectrophotometer, water bath etc.

Research Intern

2023 – 2024

Food Chemistry Research

Supervisor: Dr. Edward Dibia (Associate Professor in Chemistry department)

- Nutritional Indices testing.
- Phytochemicals assay.

Research Intern

January 2021- April 2021

University of Benin Teaching Hospital

- Worked in the chemical pathology laboratory, where we carried out various laboratory analysis on patients' blood samples.

Graduate Student

January 2017 – December 2020

Medical Biochemistry Laboratory, University of Benin

Supervisor: Dr. (Mrs.) S.O Olubodun

- Four years' experience working in the medical laboratory of my Department at the University of Benin and graduated with First Class Honors Degree (**4.80** on a 5.00-point aggregate)
- Liver function tests including alanine aminotransferase (ALT), aspartate aminotransferase (AST), alkaline phosphatase (ALP), and bilirubin levels.
- Glucose tests, kidney function test, electrolyte analysis including sodium, potassium, chloride and bicarbonate levels.
- Studied metabolic changes in diseases such as diabetes, obesity and metabolic syndrome.
- Investigated the impact of nutrition on health and disease states.
- Examined the biochemical effects of toxins and pollutants on human health.

WORK EXPERIENCE

Program Management Internship

August 2023 - June, 2024

Program Manager's Office, Centre of Excellence in Reproductive Health Innovation (CERHI)

- Data Collation & Entry.
- Planning, organizing and managing tasks, fostering excellent relationships and communication with stakeholders and team members.
- Problem-solving, working with deadlines, budgeting, customer relations, impact assessment, executing plans, quality control and ensuring the smooth running of various projects.
- Contributing to the success of multiple world bank sponsored projects at CERHI, including building a functional stimulation laboratory, working on the international accreditation for the University of Benin and participating in the UBARD conference.
- Administrative functions including typing, scanning, editing, printing and photocopying of documents.
- Journaling minutes of meetings.
- Assisting in the organization of different certificate courses on Social Standards, Environmental Standard and Procurement Management.
- Playing a key role in the training of hundreds of students, ensuring smooth operations, and achieving organizational successes.
- Team collaboration, managing client expectations and risk assessment.

Laboratory Researcher, Centre of Excellence in Reproductive Health Innovation (CERHI).

August 2024

- Conducted free World Bank-sponsored laboratory testing programs for students, which included comprehensive diagnostic assessments and health screenings.
- Led advocacy campaigns alongside testing programs, educating participants on reproductive health, personal wellness, and the significance of early diagnosis and treatment.
- Contributed to World Bank-sponsored research projects, including:
- Endometriosis Studies: Assisted in sample collection, processing, and analysis to identify potential biomarkers for diagnosis and management.
- Labor and Delivery Research: Participated in experiments investigating the impact of maltreatment during labor, focusing on improving maternal healthcare practices.
- Supported experimental designs and data collection for molecular and biochemical studies aimed at addressing critical reproductive health challenges.
- Collaborated with a multidisciplinary team of researchers to evaluate laboratory findings and compile comprehensive reports for project stakeholders.
- Ensured compliance with laboratory safety protocols and ethical research guidelines during all experiments and testing activities.
- Engaged in community outreach initiatives, raising awareness about the role of laboratory diagnostics in improving reproductive health outcomes.
- Maintained accurate and detailed documentation of laboratory procedures, findings, and project outcomes for academic and professional dissemination.

PUBLICATIONS

- Dibia N. Edward and **Esther C. Dibia** (2022). Studies with selected phytochemical constituents of *Vernonia amygdalina* leaves and influence of processing and storage. *Journal of Science and Technology Research*. 4(2): 306-317.

- Dibia N. Edward and **Dibia C. Esther** (2022). Urban raw milk studies: Aspects of selected mineral elements investigations of raw milk samples obtained from some cities in southern Nigeria. *FUW Trends in Science & Technology*. 7: 298-311
- Dibia N. Edward and **Esther C. Dibia** (2024). Water Activity Studies with Total Phenols and Total Antioxidant Properties of Sun Dried, Grated and Stored Vernonia amygdalina Leaves. *ChemSearch Journal*. 15(2): 147 – 155.
- Dibia N. Edward and **Esther C. Dibia** (2024). Seasonal Variation of Selected Mineral Elements in Raw Cow Milk obtained from Benin City, Nigeria. *ChemSearch Journal*. 15(2): 82 – 91.
- Dibia N. Edward and **Dibia C. Esther** (2025). Processing and Storage Studies with Total Phenol Contents and Percentage Antioxidant Activities of Raw, Processed and Stored Pergularia daemia Leaves. *Asian Journal of Advanced Research and Reports*. 9(1): 9-11.

SEMINAR PRESENTATION

- Effects of aqueous extracts of *Acalypha wilkesiana* on liver function and selected liver oxidative stress biomarkers in male wistar rats.

CONFERENCES ATTENDED

- **UBARD Conference:**

- Invited to participate in the World Bank-sponsored UBARD Conference, which brought together experts, researchers, and policymakers to discuss innovative approaches to reproductive health challenges.
- Contributed to discussions on integrating diagnostic tools with advocacy for improved reproductive health outcomes.

- **AAS Conference:**

- Attended the prestigious World Bank-sponsored African Academy of Sciences (AAS) Conference, focused on advancing biomedical research in Africa.
- Networked with global professionals to exchange ideas and explore collaborative opportunities in reproductive health and diagnostics.
- Participated in plenary sessions and panel discussions highlighting the role of laboratory research in addressing pressing health issues.

RECOGNITION AND AWARDS

- Best graduating student in senior secondary school (SS2) 2015
- Represented University of Benin Demonstration Secondary School in Science, Technology, Engineering & Mathematics (STEM) 2015
- Assembly Prefect, University of Benin Demonstration Secondary School 2015 – 2016
- Best Student at 300 level, in the Department of Biochemistry, University of Benin, Benin City 2019/2020
- Best Graduating Student in Sustainable Procurement, Environment and Social Standard (SPESSE) earning the Professor Okonofua prize 2023
- NATIONAL YOUTH SERVICE (NYSC) COMPLETION 2024

COMMUNITY SERVICE / VOLUNTEERING PARTICIPATION

Internally Displaced Persons Camp, Oguah

November 2023 – May 2024

- Donation of clothes, shoes, foodstuff and other relief materials to the over 3000 internally displaced children living at the IDP camp in Oguah
- Creation of a functional library containing over 1000 books along with bookshelves, schoolbags and other writing materials for the young children living in the camp.
- Organized life coaching seminars to motivate the students living in the camp.

- Donation of tissue papers and other relief aids to patients in the hospital.

LEADERSHIP POSITION HELD

Student Leader

January 2020 – January 2021

- Helped to tutor younger medical biochemistry students on what to expect in the medical biochemistry field
- Consultant in writing on medical-related topics in Departmental magazines

Leader, Grace Edge Ministries

June 2020 - Present

- Helped to ensure the younger members consistently submit their daily reports on activities carried out and mobilization of my team to carry out different projects.

PROFESSIONAL COURSES ATTENDED

- Advanced Certificate in Procurement Management
- Advanced Medical Stimulation Training with High-fidelity Mannequins
- Comparative Cross-Cultural Studies of Social Standards
- Advanced Certificate in Social Standards
- Management of Environmental & Social Impacts in Development Projects
- Biosecurity training on castor oil and Ricin toxin for researchers and laboratory Scientists

SKILLS

- Technical Skills
 - ✓ Biochemical research
 - ✓ Laboratory techniques
 - ✓ Scientific writing
- Content Creation and Communication
 - ✓ Content creation
 - ✓ Creative writing
 - ✓ Public speaking
 - ✓ Social media management
- Leadership and Management
 - ✓ Project coordination
 - ✓ Team leadership
 - ✓ Strategic planning
 - ✓ Creative innovation
- Interpersonal Skills
 - ✓ Mentorship and coaching
 - ✓ Problem-solving
 - ✓ Cultural competence