

IDUN EMMANUEL FIIFI

Kwame Nkrumah University of Science and Technology (KNUST), Kumasi, Ghana

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EDUCATION

Kwame Nkrumah University of Science and Technology (KNUST)

Sept 2019

Bachelor of Science (Biological Sciences)

Thesis Advisor: Dr. Kwadwo Boampong

Relevant Courses: Microbiology, Molecular Biology, Infectious Diseases, Drug Discovery

RESEARCH EXPERIENCE

Undergraduate

Research Assistant, Department of Public Health and Epidemiology, KNUST

Nov 2023-Oct 2024

- **Principal Investigator:** Dr. William Tasiame

Project: Seroprevalence of Brucellosis in sheep and goats and their transmission in animal owners in Ejisu Municipality, Ghana

Roles: I evaluated sheep and goats of various ages, along with their histories of abortion and retained placenta, and using the Rose Bengal Plate Test, I found a 14% overall seroprevalence of brucellosis in 100 sheep and goats from Ejisu Municipal.

Research Laboratory Assistant (Intern), Abakrampa Health Center, Abakrampa

Oct 2021-Dec 2021

- **Principal Investigator:** Dr. Ebenezer Osei Bonsu

Project: Phenotypic characterization of clinical and environmental *Klebsiella pneumoniae* isolates

Roles: I identified metabolic traits and resistance pattern of *Klebsiella pneumoniae* using indole confirmatory test and antibiotic susceptibility test

Undergraduate Final Year Thesis Project

Jan 2023-Sept 2023

- **Principal Investigator:** Dr. Kwadwo Boampong

Project: Prevalence of Extended Spectrum Beta-Lactamase (ESBL)-Producing *Escherichia coli* in raw beef sold in markets in Kumasi Metropolis, Ghana

Roles: I employed double disc synergy test using Cefotaxime and Cefotaxime-Clavulanic acid and measured the zone diameter of 12 randomly selected raw beef samples which tested positive for ESBL-producing *Escherichia coli*

MANUSCRIPTS

1. Kwadwo Boampong, Patrick Mensah Amponsah, **Emmanuel Fiifi Idun**, Christa Afua Ofori, Felicity Gifty Boating, Achiaa Amaning-Kwarteng, Antipas Tawiah. Prevalence of Extended Spectrum Beta-Lactamase (ESBL)-Producing *Escherichia coli* in raw beef sold in markets in Kumasi Metropolis, Ghana (*Manuscript in preparation*)
2. William Tasiame, Benjamin O. Emikpe, **Emmanuel Fiifi Idun**, Prince Takyi, Raphael Folitse, Victus Burimuah. Seroprevalence of Brucellosis in sheep and goats and their transmission in animal owners in Ejisu Municipality, Ghana (*Manuscript in preparation*)

RESEARCH PRESENTATION

Oral Presentation: 24th Biennial Conference of the Ghana Veterinary Medical Association (GVMA)

Nov 2023

Poster Presentation: Department of Theoretical and Applied Biology, Project Thesis Defense

Sept 2023

Poster Presentation: Scientific Research Conference (TEKCONFAB'23)

April 2023

Poster Presentation: Biological Sciences Scholars' Summit

June 2022

HONORS/AWARDS

Most Dedicated Teacher Award (Sun-City International School), Abakrampa	May 2022
Best Student Award, Mfantseman District Scholar for Junior High School	June 2016

CERTIFICATES EARNED

Certificate of Completion of “Doing Clinical Research: Biostatistics with the Wolfram Language”	Nov 2024
Certificate of Completion of “Immunology: Immune System and Infectious Diseases”	Nov 2024
Certificate of Completion of “Bacteria and Chronic Infections”	Aug 2024
Certificate of Completion of “Understanding Research Methods”	July 2023
Certificate of Completion of “Data Analysis Using Excel”	June 2023
Certificate of Completion of “Autoimmune Encephalitis”	Jan 2023
Certificate of Completion of “Introduction to Clinical Research”	Dec 2022

SOCIETY/CLUB MEMBERSHIP

American Society for Microbiology (ASM) (Member)	June 2024-Date
Biological Science Students’ Association (BIOSSA) (Member)	Sept 2019 – Sept 2023
Youthful Guide Foundation (YGF) (Member)	April 2023-Date
Morning Glory Orphanage Project, Ghana (Member)	March 2018-Date

CONFERENCES AND WORKSHOPS ATTENDED

14 th MTN Pulse Transform Africa Conference and Africa Role Model Award	May 2023
Biological Sciences Scholar’s Summit	June 2022

LEADERSHIP

Undergraduate Research and Teaching Assistant, Public Health and Epidemiology, KNUST	2023-2024
Academic Committee Deputy, University Hall, KNUST	2020-2021

RELATED WORK EXPERIENCE

Undergraduate Research and Teaching Assistant, Public Health and Epidemiology, KNUST	Nov 2023-Oct 2024
Peer/Student Tutor: Microbiology, Theoretical and Applied Biology Dept., KNUST	June 2022-2023
Intern: Research Laboratory Assistant, St. Francis Xavier Hospital	Oct-Nov 2022
Intern: Research Laboratory Assistant, Abakrampa Health Center	Oct-Nov 2021
Voluntary: Covid-19 Ambassador, Abakrampa Health Center	May-Aug 2020
Voluntary: Morning Glory Orphanage Project	March-April 2018

SKILLS, HOBBIES AND INTERESTS

- **Computer Skills:** Proficient in SPSS, STATA, XLSTAT, EstimateS, R Programming, Wolfram Language, MS Word, PowerPoint, Excel, Adobe Photoshop
- **Laboratory Skills:** PCR, Light Microscopy, Microbial culture, Antibiotic Susceptibility Testing, ELISA
- **Interests:** Data Analysis, Teaching, Reading articles on Microbiology and Infectious diseases, Leadership and Community
- **Hobbies:** Cooking, Fishing, Country music, Basketball

PROFICIENT LANGUAGES: English, Fante, Twi, French