

ABDULRASHID, NASIRUDEEN IDOWU

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RESEARCH INTERESTS

Infectious Diseases, Nutrition and Dietetics, Pharmaceutical and Medicinal Chemistry

EDUCATION

MSc Ahmadu Bello University Zaria Nigeria, **Biochemistry** **November 2019**

Thesis: "Antitrypanosomal and Antisialidase Activities of Phloroglucinol in *T. congolense* Infected Rats"

Advisor: Dr. Mohammed Auwal Ibrahim

Second Class Upper (4.21/ 5.00) CGPA

BSc Kebbi State University of Science and Technology Aliero **December 2013**

Biochemistry,

Thesis: Physicochemical and Antinutritional Evaluation of Cashew Seed Nuts

Advisor: Dr. Abubakar Abdulhamid

Second Class Upper (4.39/ 5.00) CGPA

RELEVANT COURSES ON NUTRITION AND DIETETICS, ABU ZARIA (2016-2019)

NUTRITION AND EMERGENCY: Received training on the following modules

- Types and causes of emergency
- Nutritional problems of refugees
- Methods of assessing the nutritional status of refugees
- Food aids and nutrition
- Humanitarian response to emergencies
- Nutrition information systems in emergency situations

NUTRITION AND EXERCISE: Received training on the following modules

- Concept of different dietary patterns like adequate, balanced and ideal diets for under five children.
- Roles of antioxidants in managing many ailments
- Relationship among obesity, diabetes, hypertension, stroke and cancer.
- Physical activities and sport nutrition ranging from micro and macro nutrients demands.
- Classes of energy demand in sports like creatine phosphate (in 100 metres and shot-put) carbohydrates and lipids (in marathon and swimming).

ADVANCED PRINCIPLES OF NUTRITION: Received training on the following modules

- General concept about nutrition and recommended dietary allowance of macro and micronutrients.
- Concept, interpretation and limitations of body mass index (BMI)
- Under nutrition indices like weight for height, height for age and weight for age
- Conceptual framework of malnutrition

RESEARCH EXPERIENCE

Phloroglucinol as a potential candidate against *Trypanosoma congolense* infection: insights from *in vivo*, *in vitro*, molecular docking and molecular dynamics simulation analyses, Ahmadu Bello University Zaria, Nigeria **2019**

- Assayed the level of selected liver and renal biochemical parameters to determine the amelioration of organ damages by phloroglucinol treatment of the infected rats.

- Carried out ion exchange chromatography purification of the isolated bloodstream form of the *Trypanosoma congolense* sialidase.
- Determined the *in vitro* inhibitory assay of the partially purified enzyme by phloroglucinol.
- Conducted molecular docking and molecular dynamics simulation of phloroglucinol against homology modeled trypanosomal sialidase and phospholipase A₂ implicated in anemia prognosis of animal African trypanosomiasis.

Ahmadu Bello University Zaria, Nigeria

2016 to 2017

Position, Research Assistant

- Conducted weekly practical for over 200 Biochemistry, Microbiology, Human Physiology and Anatomy students.
- Documented their attendance and scores
- Submitted weekly report to the coordinator
- Enriched my leadership, mentoring, public speaking and organizational skills

Physicochemical and Antinutritional Evaluation of Cashew Seed Nuts

Kebbi State University of Science and Technology Aliero, Nigeria

2013

- Conducted n-hexane soxhlet solvent extraction of the grounded cake
- Carried out physicochemical parameters of the extracted oil to ascertain its veracity as cooking oil.
- Conducted antinutritional evaluation of the seed nut like phytates, tannins and most oxalates that can complex calcium as calcium-oxalates found in kidney stones.
- Established the facts that cashew seed nut is nutritionally healthy from the findings.

Bioraj Pharmaceutical Limited, Ilorin Nigeria

April to September 2012

Position: Quality Control Assistant

- Ascertained strict compliance of drug production ethics in line with NAFDAC and British Pharmacopeia standard.
- Collected drug samples for chemical and microbial analyses
- Conducted physicochemical analyses like conductivity test, hardness and pH for both treated and bioreactor effluent water
- Carried out friability test, hardness, weight for chewable tablets like vitamin C.

TEACHING EXPERIENCE

Kwara State Teaching Service Commission, Ilorin

May 2021 to present

Education Officer II (Chemistry Teacher)

- Restored the lost hope of the Community Secondary School Oke Ose in Chemistry due to lack of teacher.
- Reinforced the students commitment to learning via discussion method of teaching
- Introduced the concepts of laboratory techniques to the students for the first time.

Kallon Kura Model Primary School Samaru, Kaduna **August 2018 to July 2020**

Numeracy and Literacy Tutor

- Taught the pupils in line with Education Sector Support Programme in Nigeria (ESSPIN) curriculum.
- Trained over 100 primary 2 pupils on jolly phonics to better their reading and writing techniques in line with mass literacy agenda of **SDG number 4**.

Government Secondary School Galadimawa, Kaduna **August 2014 to July 2015**

Chemistry Teacher

- Taught the students effectively with both theories and practical.
- Recorded over 75% of the students with at least C6 in their SSCE.

COMMUNITY SERVICE AND LEADERSHIP TRAINING

Biospherea (formerly, Science Café)

November 2020 to present

Community Manager at Science Café

- Made up of over 100 young, vibrant, growth driven Bioscientists connected together with the core mantra of learning, growing, networking for career advancement.
- Organized biweekly webinars ranging from article reviews, career talks and science communications.

National Agency for the Control of AIDS (NACA)

September 2014 to July 2015

Peer Educators Trainer Facilitator, Galadimawa village, Kauru LGA, Kaduna State,

- Trained over 80 adolescents on reproductive health management, HIV/AIDS prevention and control.
- Improved their awareness and refusal skills from pre-marital sex which accounts for 90% of teenage pregnancies and other sexual harassment observed in the village.

Independent National Electoral Commission

November 2014 to February 2015

- Registered the highest number of voters (840) in one week at Dandaura 001 polling unit, Kauru L.G.A. Kaduna State
- Served as Assistant Presiding Officer I at Kwassam 001 polling unit, Kauru L.G.A. Kaduna State during the 2015 general elections

PUBLICATIONS

Nasirudeen Idowu Abdulrashid, Suleiman Aminu, Rahma Muhammad Adamu, Nasir Tajuddeen, Murtala Bindawa Isah, Isa Danladi Jatau, Abubakar Badando Aliyu, Mthokozisi Blessing Cedric Simelane, Elewechi Onyike and Mohammed Auwal Ibrahim (2022). Phloroglucinol as a potential candidate against *Trypanosoma congolense* infection: insights from *in vivo*, *in vitro*, molecular docking and molecular dynamics simulation analyses, *Molecules*, 27, 469-487.

Nasirudeen Idowu Abdulrashid, Murtala Bindawa Isah, Sulaiman Aminu, Nasir Tajuddeen, Abubakar Badando Aliyu, Rahma Muhammad Adamu, Mohammed Auwal Ibrahim and Elewechi Onyike (2021). Phloroglucinol possesses trypanosuppressive properties with amelioration of the disease-associated anemia in *Trypanosoma congolense* infected rats and inhibits trypanosomal sialidase *in vitro* and *in silico* presented at the 16th congress of Federation of Asian and Oceanian Biochemists and Molecular Biologists (FAOBMB 2021), New Zealand from 22nd to 25th November, 2021.

PROFESSIONAL AFFILIATIONS

Member, Nigerian Bioinformatics and Genomics Network,

2020-Present

Member, Biospherea (formerly, Science Café)

2020-present

HONORS AND AWARDS

Science Café Scholarship grant for Institute of Bioinformatics and Molecular Therapeutics (IBMT) Training

2022

- Awarded full scholarship worth (**15 US dollars**) to attend the IBMT workshop on immunoinformatics and computational vaccinology
- Acquired the requisite knowledge on antigenicity and allergenicity
- Learnt on how to simulate the potential vaccine candidate against a known target using ClusPro molecular docking server

Travel Fellowship Grant by 54 gene

2021

- Awarded full travel grant worth (**150 US dollars**) to attend the second conference of the Nigerian Bioinformatics and Genomics Network held at Landmark University Omu Aran.
- Gained first hand practical experience on Genome Wide Association Studies (GWAS) and Polygenic Risk Score Analysis (PRS).

Best Industrial Training Students at Bioraj Pharmaceutical Limited Ilorin 2012

- Adapted to the rudiments of drug production, analyses and packaging in the first 3 months while I transferred the skill sets garnered by training and mentoring over 20 newly recruited IT students for the next 3 months.

COMPUTER SKILLS

Applications: MS word, Excel, Power point, SPSS, Canva, Chemdraw, Pyrx and PyMol**Programming languages:** HTML, CSS, JS, SQL and Python**EXTRA CURRICULAR ACTIVITIES**

Interests/Hobbies: Reading, Travelling, Scrabbling and Freelance writing

REFERENCES

Available on request