



# KASIMU GHANDI IBRAHIM, MBBS, PHD

أستاذ مساعد في علم وظائف الأعضاء

## ملخص مهني

طبيب مؤهل طبياً، تلقى تدريبه في جنوب إفريقيا، ولدي خبرة تراكمية في التدريس والبحث تمتد لـ 14 عامًا. أنا مدرس شغوف شاركت في التدريس على مستوى البكالوريوس والدراسات العليا باستخدام أساليب التدريس التقليدية والمبتكرة التي تعزز التعلم النشط. لقد فزت في أوقات مختلفة بجوائز كأفضل محاضر في العلوم الطبية الأساسية، والمحاضر الأكثر دعمًا، وحتى كأب فصل دراسي لخريجي الطب. لقد حضرت العديد من ورش العمل التعليمية/التدريسية، وأنا حاليًا مسجل (MHPE) للحصول على درجة الماجستير في تعليم المهن الصحية لتعزيز مهاراتي التدريسية بشكل أكبر. كما أشارك بنشاط في البحث مع العديد من التعاونات في جميع أنحاء العالم. حتى الآن، لدي حوالي 57 منشورًا في مجلات محكمة وحضرت حوالي 32 مؤتمرًا محليًا ودوليًا. كما شغلت العديد من المناصب الإدارية، بما في ذلك نائب عميد شؤون الطلاب ومدير الزراعة في مركز البحوث والتدريب في جامعة عثمان دانفوديو، سوكونو، (CAMRET) الطبي المتقدم نيجيريا. لقد فزت ونفذت العديد من المنح البحثية وأشرفت على دراسة أحد طلاب الدكتوراه وتسعة طلاب ماجستير حتى الانتهاء.

تاريخ الميلاد: 7 أكتوبر 1978

مكان الميلاد: سوكونو، نيجيريا

الجنسية: نيجيري

عنوان الاتصال: قسم العلوم الطبية الأساسية وطب الأسنان، كلية طب الأسنان، جامعة الزرقاء، ص.ب. 2000، الزرقاء 13110، الأردن

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**ResearchGate:**

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**Google Scholar:**

<https://scholar.google.com/citations?user=tifJWLUAAAAJ&hl=en>

**Scopus:**

<https://scopus.com/authid/detail.uri?authorId=57193608649>

## MAJOR SKILLS

Nucleic acid extraction, primer design, isolation and purification of RNA, conventional and real-time PCR, ELISA, spectrophotometric measurements, cell culture, histological techniques, and scientific writing.

## 1. ACADEMIC/PROFESSIONAL PARTICULARS

### a) Field of Specialization

Physiology, Developmental programming of metabolic function

### b) Academic Qualifications

- i. Ph.D. in Physiology; **2019**, (01/03/2016-09/12/2019), University of the Witwatersrand, Johannesburg, Republic of South Africa.

**Thesis title:** The Potential Protective Effects of Curcumin Against Diet-induced Neonatal Programming of Metabolic Dysfunction in Growing Rats.

- ii. MSc Medicine Physiology; **2015**, (01/07/2013-02/07/2015), University of the Witwatersrand, Johannesburg, Republic of South Africa.

**Dissertation title:** Effects of Administration of *Hibiscus sabdariffa* Aqueous Calyx Extracts on Neonatal Programming of Metabolic Dysfunction.

- iii. Bachelor of Medicine and Bachelor of Surgery; **2006**, (10/02/1999-10/02/2006), Usmanu Danfodiyo University Sokoto, Nigeria. Unclassified.

**Title of Project:** Knowledge and Practice of the Prevention of Zoonotic Diseases Among Poultry Farmers in Sokoto Metropolis.

### c) Medical Education Activities

- i. Enrolled for MHPE (Masters in Health Professions Education) at Khyber Medical University, Peshawar, Pakistan January 2024-Date
- ii. Actively participated in designing the Human Physiology Curriculum for the newly established Faculty of Dentistry, Zarqa University, Zarqa, Jordan. September 2022- September 2023.
- iii. Participated in the review of the Physiology Curriculum for Medical and Allied Health Science Students in the College of Health Sciences, Usmanu Danfodiyo University, Sokoto, Nigeria February –May 2020
- iv. Participated in compiling student handbooks, practical manuals, and course-specific study guides for the Physiology Departments of the Federal

University Dutsin-Ma, Katsina State, Nigeria, College of Health Sciences and the Faculty of Allied Sciences, Usmanu Danfodiyo University Sokoto. September, 2021

**d) Academic Honours and Awards**

- i. Travel grant from the Physiological Society (London) to attend the Physiology in Focus 2024 Conference in Newcastle upon Tyne, United Kingdom from 2<sup>nd</sup> to 4<sup>th</sup> July 2024.
- ii. Best Lecturer Pre-Clinical Award by the 2021 graduating class of the College of Health Sciences, Usmanu Danfodiyo University, Sokoto.
- iii. Most supportive lecturer award by the 2021 graduating class of the College of Health Sciences, Usmanu Danfodiyo University, Sokoto.
- iv. Travel grant from the Physiological Society (London) to attend the Europhysiology conference in London, 14<sup>th</sup>-16<sup>th</sup> September 2018.
- v. Travel grant from the Association of African Physiological Societies to attend the AAPS teaching workshop in Kigali, Rwanda, 2<sup>nd</sup>-4<sup>th</sup> December 2018.
- vi. Most supportive lecturer award from the CHS-UDUS class of 2017
- vii. Father of the Class award from the CHS-UDUS class of 2016
- viii. Most student-friendly lecturer (Preclinical) 2013/2014 session presented by the Usmanu Danfodiyo University Medical Students Association (UDUMSA).
- ix. Tertiary Education Trust Fund Scholar (TETFund, Nigeria) for an MSc Medicine degree at the University of the Witwatersrand, Johannesburg, Republic of South Africa (2013).
- x. Mobil Nigeria Producing Unlimited Undergraduate Merit Award 2000-2005.
- xi. Federal Government of Nigeria scholarship to outstanding undergraduate students 2002/2003 session.

**e) Membership of Professional Bodies**

- i. Member, Society of Medical Physiology of Nigeria (SMPN), 2019-Date.
- ii. Member, Nigerian Society of Human Genetics 2018-Date
- iii. Full Member, Physiological Society London (Physoc) 2023-Date
- iv. Affiliate Member, Physiological Society London (Physoc)-2014-2022
- v. Member, Physiological Society of Nigeria 2011-Date
- vi. Member, Physiology Society of Southern Africa 2014- Date

- vii. Member, African Association of Physiological Sciences 2014-Date
- viii. Member, Nigerian Medical Association 2006-Date

**f) Language Proficiency**

- i. English Language: Excellent reading, writing and verbal skills
- ii. Hausa: Mother tongue
- iii. Arabic: Basic reading, writing and verbal skills

## **2. CAREER DETAILS**

### **a) Academic Positions Held**

- i. **Honorary Researcher**, School of Physiology, Faculty of Health Sciences, University of the Witwatersrand, Johannesburg, South Africa, August 2023-Date
- ii. **Assistant Professor**, Faculty of Dentistry, Zarqa University, Jordan, September 2022-Date
- iii. **Senior Lecturer**, Department of Physiology, Faculty of Basic Medical Sciences, College of Health Sciences, Usmanu Danfodiyo University, Sokoto, Nigeria, 2020-Date
- iv. **Visiting Senior Lecturer**, College of Health Sciences, Kebbi State University of Science and Technology, Aliero, Kebbi State, Nigeria, 2021-2022
- v. **Lecturer 1**, Department of Physiology, Faculty of Basic Medical Sciences, College of Health Sciences, Usmanu Danfodiyo University, Sokoto, Nigeria, 2016-2019.
- vi. **Visiting Lecturer 2**, College of Health Sciences, Federal University, Birninkebbi, Kebbi State, Nigeria, 2015-2016.
- vii. **Lecturer 2**, Department of Physiology, Faculty of Basic Medical Sciences, College of Health Sciences, Usmanu Danfodiyo University, Sokoto, Nigeria, 2010-2015.

### **b) Professional/Industrial Positions Held**

- i. Medical officer, Ministry of Health, Sokoto 2008-2010.
- ii. National Youth Service at General Hospital Ijebu-Igbo, Ogun State, Nigeria 2007-2008
- iii. Housemanship, Usmanu Danfodiyo University Teaching Hospital, Sokoto 2006-2007.

### **c) Administrative Positions Held**

- i. Head, Department of Basic Medical Sciences, Faculty of Dentistry, Zarqa University, Jordan. September 2024-Date
- ii. Course coordinator, Physiology II Course for Dentistry students, Faculty of Dentistry, Zarqa University, Jordan. 2023/2024 and 2024/2025 Academic Session.
- iii. Deputy Dean, Student Affairs (City Campus and Teaching Hospital Complexes), Usmanu Danfodiyo University, Sokoto. April 2022-August, 2022.
- iv. Acting Director and Chairman, Management Committee, Centre for Advanced Medical Research and Training, Usmanu Danfodiyo University, Sokoto. March 2022-August, 2022.
- v. Associate Researcher & Member, Coordinating Committee, Centre for Advanced Medical Research and Training, Usmanu Danfodiyo University, Sokoto. February 2020-Date.
- vi. Postgraduate coordinator, Faculty of Basic Medical Sciences (FBMS), College of Health Sciences, Usmanu Danfodiyo University, Sokoto. 2019-2022.
- vii. Representative of the FBMS to the Board of the Postgraduate School, Usmanu Danfodiyo University, Sokoto. 2019-2022.
- viii. Departmental Examination Officer, Department of Physiology, FBMS, Usmanu Danfodiyo University, Sokoto. 2011-2013.

## **3. TEACHING**

### **a) Summary of courses taught**

Zarqa University, Zarqa, Hashemite Kingdom of Jordan, 2023/2024- **Human Physiology II (Respiration, Thyroid gland, Autonomic Nervous System, Gastrointestinal System, Male and Female Reproductive Systems)**, Level 2 students of Dentistry.

Zarqa University, Zarqa, Hashemite Kingdom of Jordan, 2023/2024- **Human Physiology (General Physiology, Body fluids and Blood, Cardiovascular Physiology, Respiration, Endocrinology and Renal Physiology)**, taught with two other colleagues in an integrated manner), Level 1 students of Dentistry.

Zarqa University, Zarqa, Hashemite Kingdom of Jordan, 2022/2023- **Oral Physiology (Salivary glands, Deglutition, Parathyroid gland and calcium metabolism, Physiology of Taste and olfaction, Physiology of Pain, Speech, Mechanoreceptive and thermoreceptive**

**sensations**, taught with two other colleagues in an integrated manner), Level 1 students of Dentistry.

Zarqa University, Zarqa, Hashemite Kingdom of Jordan, 2022/2023- Human Physiology (**General Physiology, Body fluids and Blood, Cardiovascular Physiology, Respiration, Endocrinology and Renal Physiology**, taught with two other colleagues in an integrated manner), Level 1 students of Dentistry.

Kebbi State University of Science and Technology, Aliero, Kebbi State, Nigeria, 2020/2021 – **Introduction to genetics** (theory, practical, and tutorials), **Level 1** students of Nursing.

Usmanu Danfodiyo University, Sokoto, Nigeria, 2020/2021 – **Endocrine Physiology** (theory, practical, and tutorials), **Level 3** medical students.

Usmanu Danfodiyo University, Sokoto, Nigeria, 2019/2020 – **Advanced Physiology of the Eye**, Postgraduate students of Physiology

Usmanu Danfodiyo University, Sokoto, Nigeria, 2019/2020 – **Introduction to genetics** (theory, practical, and tutorials), **Level 1** students of Medicine, Medical Laboratory Sciences, Pharmacy, Radiography, and Nursing

Usmanu Danfodiyo University, Sokoto, Nigeria, 2019/2020 – **Physiology of Excitable Tissues and Autonomic Nervous System** (theory, practical, and tutorials), **Level 2** medical students

Usmanu Danfodiyo University, Sokoto, Nigeria, 2019/2020 – **Physiology of Descending Pathways** (theory, practical, and tutorials), **Level 3** medical students.

Usmanu Danfodiyo University, Sokoto, Nigeria, 2019/2020 – **Advanced Cardiovascular Physiology**, Postgraduate students of Physiology

Usmanu Danfodiyo University, Sokoto, Nigeria, 2019/2020 – **ICT & Research Methodology**, Postgraduate students of Physiology.

Usmanu Danfodiyo University, Sokoto, Nigeria, 2018/2019 – **Introduction to genetics** (theory, practical, and tutorials), **Level 1** students of Medicine, Medical Laboratory Sciences, Pharmacy, Radiography, and Nursing.

Usmanu Danfodiyo University, Sokoto, Nigeria, 2018/2019 – **Cardiovascular Physiology** (theory, practical, and tutorials), **Level 2** medical students.

Usmanu Danfodiyo University, Sokoto, Nigeria, 2018/2019 – **Introductory Neurophysiology & Ascending Pathways** (theory, practical, and tutorials), **Level 3** medical students

Usmanu Danfodiyo University, Sokoto, Nigeria, 2018/2019 – **ICT methods & Uses in Research**, Postgraduate students of Chemical Pathology.

Usmanu Danfodiyo University, Sokoto, Nigeria, 2018/2019 – **General Genetics** (theory, practical, and tutorials), **Level 1** students of Medicine, Medical Laboratory Sciences, Pharmacy, Radiography, and Nursing.

Usmanu Danfodiyo University, Sokoto, Nigeria, 2018/2019 – **Cardiovascular Physiology** (theory, practical, and tutorials), **Level 2** medical students.

Usmanu Danfodiyo University, Sokoto, Nigeria, 2017/2018 – **Introduction to genetics** (theory, practical, and tutorials), **Level 1** students of Medicine, Medical Laboratory Sciences, Pharmacy, Radiography, and Nursing.

Usmanu Danfodiyo University, Sokoto, Nigeria, 2017/2018 – **Cardiovascular Physiology** (theory, practical, and tutorials), **Level 2** medical students.

Usmanu Danfodiyo University, Sokoto, Nigeria, 2017/2018 – **Biomechanics and CNS Physiology** (theory, practical, and tutorials), **Level 2** students of Medicine, Medical Laboratory Sciences, Pharmacy, Radiography, and Nursing.

Usmanu Danfodiyo University, Sokoto, Nigeria, 2017/2018 – **Neurophysiology** (theory, practical, and tutorials), **Level 3** medical students.

Usmanu Danfodiyo University, Sokoto, Nigeria, 2017/2018 – **Physiology of Special Senses** (theory, practical, and tutorials), **Level 3** medical students.

Usmanu Danfodiyo University, Sokoto, Nigeria, 2017/2018 – **Advanced Cardiovascular Physiology**, Postgraduate students of Physiology.

Usmanu Danfodiyo University, Sokoto, Nigeria, 2017/2018 – **Advanced Physiology of Special Senses**, Postgraduate students of Physiology.

Usmanu Danfodiyo University, Sokoto, Nigeria, 2017/2018 – **Advanced Cell Biology & Genetics**, Postgraduate students of Anatomy.

Usmanu Danfodiyo University, Sokoto, Nigeria, 2017/2018 – **Research Orientation & Methodology**, Postgraduate students of Anatomy.

Usmanu Danfodiyo University, Sokoto, Nigeria, 2017/2018 – **Overview of Basic Neurophysiology**, Postgraduate students of Master of Public Health (MPH).

Usmanu Danfodiyo University, Sokoto, Nigeria, 2016/2017 – **Biomechanics and CNS Physiology** (theory, practical, and tutorials), **Level 2** students of Medicine, Medical Laboratory Sciences, Pharmacy, Radiography, and Nursing.

Usmanu Danfodiyo University, Sokoto, Nigeria, 2016/2017 – **Neurophysiology** (theory, practical, and tutorials), **Level 3** medical students.

Usmanu Danfodiyo University, Sokoto, Nigeria, 2015/2016 – **Physiology of special senses and the autonomic nervous system** (theory, practical, and tutorials), **Level 3** Medical Students.

Usmanu Danfodiyo University, Sokoto, Nigeria, 2015/2016 – **Medical Physics, Level 3** Medical Laboratory Sciences Students.

Usmanu Danfodiyo University, Sokoto, Nigeria, 2015/2016 – **Cardiovascular Physiology and Biomechanics and CNS Physiology** (theory, practical, and tutorials), **Level 2** students of Pharmacy and Medical Laboratory Sciences.

University of the Witwatersrand, Johannesburg, 2013/2014 – **Integrated teaching of physiology (cardiovascular, respiratory, musculoskeletal, blood & body fluids, renal, gastrointestinal and nervous systems)**, **Level 2** medical students.

Usmanu Danfodiyo University, Sokoto, Nigeria, 2012/2013 – **Respiratory Physiology**, (theory, practical, and tutorials), **Level 2** students of Medicine, Medical Laboratory Sciences, and Pharmacy.

Usmanu Danfodiyo University, Sokoto, Nigeria, 2012/2013 – **Physiology of reproduction**, (theory, practical, and tutorials), **Level 3** Medical Students.

Usmanu Danfodiyo University, Sokoto, Nigeria, 2012/2013 – **Neurophysiology**, (theory, practical, and tutorials), **Level 3** Medical Students.

Usmanu Danfodiyo University, Sokoto, Nigeria, 2011/2012 – **Introduction to Genetics** (theory, practical, and tutorials), **Level 1** Students of Medicine, Medical Laboratory Sciences, and Pharmacy



Usmanu Danfodiyo University, Sokoto, Nigeria, 2011/2012 – **Gastrointestinal Physiology**, (theory, practical, and tutorials), **Level 2** students of Medicine, Medical Laboratory Sciences, and Pharmacy.

Usmanu Danfodiyo University, Sokoto, Nigeria, 2011/2012 –**Cardiovascular Physiology** (theory, practical, and tutorials), **Level 2** students of Medicine, Medical Laboratory Sciences, and Pharmacy.

Usmanu Danfodiyo University, Sokoto, Nigeria, 2011/2012 –**Blood and Body Fluids Physiology**, (theory, practical, and tutorials), **Level 2** students of Medicine, Medical Laboratory Sciences, and Pharmacy.

**b) Participation in Academic Accreditation**

N/A

**c) Research Students Supervised/Trained**

<b>Level</b>	<b>Number of Trainees</b>
Ph.D.	4
Masters	10
Undergraduate	1

Name of student	Degree/Title of dissertation/ thesis and date	Supervisory Role	Duration of studies (years)
Fatima Abdulwahab	Bachelor of Medical Laboratory Sciences (BMLS), Usmanu Danfodiyo University, Sokoto. <b>Completed December 2021</b>	Co-Supervisor	2020-2021
Ahmad Abdullahi	MSc Chemical Pathology, Usmanu Danfodiyo University, Sokoto. Modulatory effects of Natron on antioxidant status of cardiac muscle in postpartum albino rats. <b>19211226009. Completed August 2024.</b>	Co-Supervisor II	2021-2024
Kamaldeen Sanusi Olalekan	PhD. Physiology, Usmanu Danfodiyo University, Sokoto. 193107150. A transgenerational study of the metabolic outcomes and DNA Methylation status following parental zinc deficiency in fruit flies. <b>19310709002. Completed June 2024.</b>	Co-Supervisor I	2020-2024
Ya'aqub Abiodun Uthman	MSc Physiology, Usmanu Danfodiyo University, Sokoto. Brown Rice Prevents Oxidative Stress in Iron-Induced <i>Drosophila</i> Model of Parkinson's Disease. <b>19210715006. Completed June 2024.</b>	Co-Supervisor I	2020-2024
Kehinde Ahmad Adeshina	MSc Physiology, Usmanu Danfodiyo University, Sokoto. Transgenerational Inheritance of Insulin Resistance in Offspring of White rice-fed Fruit Fly. <b>19210715005. Completed June 2024.</b>	Major Supervisor	2020-2024
Dawoud Usman	MSc Physiology, Usmanu Danfodiyo University, Sokoto. Comparing the effects of iron chelation and supplementation in the management of inflammatory bowel disease using <i>drosophila</i> . <b>19210715002 Completed February 2024</b>	Major Supervisor	2020-2024

Sagir Kaka Shinkafi	MSc Biochemistry, Usmanu Danfodiyo University, Sokoto. Screening of selected medicinal plants for antidiabetic and thrombolytic activities in high-fat diet and dexamethasone-induced type 2 diabetic rats. 18210304003. <b>Completed September 2021.</b>	Co-Supervisor II	2019-2021
Saka Saheed Olanrewaju	MSc Physiology, Usmanu Danfodiyo University, Sokoto. White rice consumption and the risk of diabetes and oxidative stress in the fruit fly ( <i>Drosophila melanogaster</i> ). Student number: 18210714001. <b>Completed August 2021.</b>	Co-Supervisor I	2019-2021
Zulaihah Usman Lau	MSc Chemical Pathology, Usmanu Danfodiyo University, Sokoto. Vitamin D levels in sickle cell anaemic children in steady and in crises states attending Specialist Hospital Sokoto. Student number: 18211226006. <b>Completed May 2021.</b>	Co-Supervisor II	2019-2021
Bello Audu Bashir	MSc Chemical Pathology, Usmanu Danfodiyo University, Sokoto. Effects of co-administration of Glibenclamide and extract of <i>Hibiscus sabdariffa</i> on oxidative stress in pancreas of streptozotocin-induced diabetic rats. Student number: 16211226013. <b>Completed November, 2019.</b>	Co-Supervisor II	2018-2020
Nasiru Muhammad	MSc Medicine from the University of the Witwatersrand, Johannesburg, Republic of South Africa. Effects of Methanolic Extract of <i>Moringa oleifera</i> leaves on Fructose-induced Metabolic Dysfunction in Growing Sprague Dawley Rats. Student number: 1332380. <b>Completed August 2017</b>	Co-Supervisor II	2016-2017

### Current Postgraduate Students

Name of student	Degree enrolled for and title of project	Supervisory Role	Year of registration
Jelani Muhammad	PhD. Physiology. University of the Witwatersrand, Johannesburg, South Africa. The potential of Naringin in the prevention of sweetened-alcohol-induced cardio-metabolic derangements in adolescent Sprague Dawley rats. <b>1332401.</b>	Co-Supervisor II	2022-Date
Abubakar Ridwanu Zauro	PhD. Pharmacology, Usmanu Danfodiyo University, Sokoto. Effect of fresh camel milk on the metabolic syndrome: a Pharmacogenetic study.	Co-Supervisor II	2021-date
Saudat Faruk	Ph.D. in Biochemistry, Usmanu Danfodiyo University, Sokoto. Intergenerational effects of iron deficiency on ageing in fruit flies ( <i>Drosophila melanogaster</i> ). <b>19310304004</b>	Co-Supervisor II	2021-Date
Ahmadu Jibril	MSc Physiology, Usmanu Danfodiyo University, Sokoto. The prevalence of visual impairment and associated factors among senior Secondary School Students in Sokoto Metropolis. <b>16210714003</b>	Co-Supervisor I	2019-date

#### d) Participation in Thesis and Oral Examination Committees

Level	Number of Examinations
Ph.D.	5
Masters	11

#### e) Training/Medical Education

- Workshop on DDS curriculum, study plan, and assessment methods organised by the Faculty of Dentistry and coordinated by a delegation from Queens University, Belfast, United Kingdom on the 12<sup>th</sup> and 13<sup>th</sup> of November 2022.
- Curriculum development and assessment methods workshop organised by the Faculty of Dentistry, Zarqa University, and coordinated by Prof JAP Jayasinghe from the University of Aberdeen, United Kingdom from 6<sup>th</sup>-8<sup>th</sup> November 2022.

- iii. Pre-congress workshop on teaching and learning at the AAPS- PSSA 1<sup>st</sup> Virtual Congress hosted by the University of the Witwatersrand, Johannesburg, Republic of South Africa, 12-15<sup>th</sup> September 2021.
- iv. The 4<sup>th</sup> African Association of Physiological Sciences Educational workshop, University of Rwanda, Kigali, Rwanda, 2<sup>nd</sup>-4<sup>th</sup> December 2018.
- v. Workshop on designing a poster for conference presentations organised by the Postgraduate Office, Faculty of Health Sciences, University of the Witwatersrand, Johannesburg, South Africa on 25<sup>th</sup> August 2016.
- vi. Workshop on giving effective PowerPoint presentations, organised by the Postgraduate Office, Faculty of Health Sciences, University of the Witwatersrand, Johannesburg, South Africa on 24<sup>th</sup> August 2016.
- vii. Workshop on how to use the statistical package -STATA organised by the Postgraduate Office, Faculty of Health Sciences, University of the Witwatersrand, Johannesburg, South Africa on 19<sup>th</sup> August 2016.
- viii. Pre-conference Education workshop at the Libandla conference venue, Khaya iBHubesi, Parys, Free State, Republic of South Africa preceding the 43<sup>rd</sup> Congress of the Physiology Society of Southern Africa Congress on the 6<sup>th</sup> September 2015.
- ix. Training on students' online registration portal (EduERP) held at UDUNet training centre, Usmanu Danfodiyo University, Sokoto from 1<sup>st</sup> -3<sup>rd</sup> June 2015.
- x. Workshop on the usage of the College E-Library organised by the College of Health Sciences/TSHIP at the College Board Room and e-library in UDUTH from 19<sup>th</sup> -21<sup>st</sup> May 2015.
- xi. Scientific writing workshop organized by the Postgraduate office, Faculty of Health Sciences, University of the Witwatersrand, Johannesburg, South Africa; September 2013.
- xii. Research methodology workshop organized by the Postgraduate office, Faculty of Health Sciences, University of the Witwatersrand, Johannesburg, South Africa 5<sup>th</sup>- 8<sup>th</sup> August 2013.
- xiii. Advanced Digital Appreciation Programme for Tertiary Institutions (ADAPTI) organised by the Digital Bridge Institute, International Centre for Communications Studies at Usmanu Danfodiyo University, Sokoto. 23<sup>rd</sup>-27<sup>th</sup> July 2012.

- xiv. Conference Workshop at the Physiological Society of Nigeria 31<sup>st</sup> Annual Scientific Conference and Annual General Meeting on Research Methodology and Mentoring held at the Usmanu Danfodiyo University Teaching Hospital Auditorium, Sokoto, Nigeria, 7<sup>th</sup> September 2011.

#### **4. RESEARCH**

##### **a) Research Interests**

- i. Developmental Programming of Metabolic Function
- ii. Applied Nutrition
- iii. Metabolic syndrome and its sequelae

##### **b) Publications/citation data**

<b>Type of publication</b>	<b>Number of Publications</b>
Articles in International Refereed Journals	57 (39 Scopus/WoS)
Conference Papers	32

<b>Citation Source</b>	<b>Number of Citations</b>	<b><i>h-index</i></b>
Google Scholar	302 (22/09/24)	10
Research Gate	228 (22/08/24)	10
Scopus	173 (30/08/24)	8

### c) Research Grants

No	Project Title and members (committee membership)	Grant Provider  Amount (Euro Equivalent)	Status	Date
1.	<p><i>Moringa oleifera</i>-fortified rice bran product as therapeutic food for malnourished children.</p> <p><b>Members:</b> Aminu Ishaka, <b>Kasimu Ghandi Ibrahim</b>, Murtala Bello Abubakar, Hassan Muhammad, Mustapha U. Imam, Murtala Muhammad Ahmad, Eno Essien.</p> <p><b>(Co-Investigator)</b></p>	<p>Tertiary Education Trust Fund, Nigeria</p> <p><b>€47,904.37</b></p>	Ongoing	June 2023- Date
2.	<p>Development of a rationally designed specific antivenom targeting carpet viper snake (<i>Echis ocellatus</i>) toxins using a recombinant DNA immunisation approach</p> <p><b>Members:</b> Mustapha Umar Imam, <b>Kasimu Ghandi Ibrahim</b>, Muhammad Bashir Bello, Ibrahim Malami, Bilyaminu Abubakar, Murtala Bello Abubakar</p> <p><b>(Co-Investigator)</b></p>	<p>Tertiary Education Trust Fund, Nigeria</p> <p><b>€79,000</b></p>	Ongoing	December 2022-Date
3.	<p>Effect of exposure to allethrin-based mosquito repellents on foetal programming of metabolic function in rats”</p> <p>Members: Suleiman Ahmad Isa, <b>Kasimu Ghandi Ibrahim</b>, Murtala Bello Abubakar and Usman Wali.</p> <p><b>(Co-Investigator)</b></p>	<p>Tertiary Education Trust Fund, Nigeria, Institutional-based Research Grant</p> <p><b>€3,790</b></p>	<b>Completed</b>	December 2022- April 2024

4.	<p>White rice consumption and the transgenerational risk of diabetes and oxidative stress in fruit fly (<i>Drosophila melanogaster</i>) offspring</p> <p><b>Members: Kasimu Ghandi Ibrahim, Murtala Bello Abubakar, Mustapha Umar Imam</b></p> <p><b>(Principal Investigator)</b></p>	<p>Tertiary Education Trust Fund, Nigeria</p> <p><b>€3,784</b></p>	<b>Completed</b>	06/2021-05/2022
5.	<p>The potential protective effects of curcumin against diet-induced neonatal programming of metabolic dysfunction in growing rats.</p> <p><b>Members: Kasimu Ghandi Ibrahim, Eliton Chivandi and Kennedy Honey Erlwanger</b></p> <p><b>(Principal Investigator- PhD Project)</b></p>	<p>Faculty Research Committee Individual Research Grant from the Faculty of Health Sciences, University of the Witwatersrand, Johannesburg, South Africa.</p> <p>Grant number: 001. 251. 8521101 .5121105. 000000</p> <p><b>€1,500</b></p>	<b>Completed</b>	2018
6.	<p>Effects of administration of <i>Hibiscus sabdariffa</i> aqueous calyx extracts on neonatal programming of metabolic dysfunction.</p> <p><b>Members: Kasimu Ghandi Ibrahim, Eliton Chivandi and Kennedy Honey Erlwanger</b></p> <p><b>(Principal Investigator- MSc Medicine Project)</b></p>	<p>Faculty Research Committee Individual Research Grant from the Faculty of Health Sciences, University of the Witwatersrand, Johannesburg, South Africa.</p> <p>Grant number: 0014018521101512 1105</p> <p><b>€1,000</b></p>	<b>Completed</b>	2014



## **5. SERVICE**

### **a) Membership of Institutional, National or International Scientific Advisory Boards**

N/A

### **b) Membership of Conference Committees**

- i. Chairman, Special Duties Committee, National Annual General Meeting and Scientific Conference, Association of Specialists Medical Doctors in Academics, Sakkwato 2021, 26<sup>th</sup> September-2<sup>nd</sup> October 2021.
- ii. Secretary, Continuing Medical Education/Professional Development Committee, Nigerian Medical Association, Sokoto State Chapter, 2020-Date.
- iii. Secretary, LOC, Maiden Annual General Meeting and Scientific Conference of the Association of Specialist Medical Doctors in Academics, Sokoto State Chapter at the College of Health Sciences, Usmanu Danfodiyo University, Sokoto, Nigeria on 13<sup>th</sup> & 14<sup>th</sup> March, 2019.
- iv. Secretary, LOC for the 31<sup>st</sup> Annual Scientific Conference and Annual General Meeting of the Physiological Society of Nigeria hosted by the Department of Physiology, College of Health Sciences, Usmanu Danfodiyo University, Sokoto from 7<sup>th</sup> -9<sup>th</sup> September 2011.

### **c) Service as a Reviewer**

- i. Pediatric Research, ISSN: 0031-3998, Nature, 2023-Date
- ii. Canadian Journal of Physiology and Pharmacology, ISSN: 0008-4212, Canadian Science Publishing, 2023-Date
- iii. Bulletin of the National Research Centre, ISSN: 2522-8307; Springer Open, National Research Centre of Egypt, 2022-Date
- iv. Journal of King Saud University- Science, ISSN: 1018-3647, Elsevier, 2019-Date
- v. Peer J, ISSN: 2167-8359, Peer J (O'Reilly and SAGE), 2019-Date
- vi. Chiang Mai University Journal of Natural Sciences, ISSN: 1685-1994, Chiang Mai University, 2020-Date
- vii. The North African Journal of Food and Nutrition Research. ISSN: 2588-1582.
- viii. Physiological Reports, ISSN: 2051-817X. 2022-Date

- ix. PLOS ONE. ISSN: 1932-6203. 2022-Date
- x. Annals of Clinical and Experimental Biology, ISSN: 2714-4666, Association of Specialist Medical Doctors in Academics, Sokoto State Chapter, 2020-Date.
- xi. Annals of Basic and Medical Sciences, ISSN: 2782-7550, Faculties of Basic Medical and Basic Clinical Sciences, College of Health Sciences, Usmanu Danfodiyo University, Sokoto, 2020-Date

**d) Membership of Journal Editorial Boards**

- i. Deputy Editor-in-Chief, Annals of Basic and Medical Sciences, A publication of the Faculties of Basic Medical and Basic Clinical Sciences, College of Health Sciences, Usmanu Danfodiyo University, Sokoto. 2020- Date
- ii. Secretary and Associate Editor, Annals of Clinical and Experimental Medicine, A publication of the Association of Specialists Medical Doctors in Academics, Sokoto State Chapter. 2019-Date

**e) University Service**

- i. Head, Department of Basic Medical Sciences, Faculty of Dentistry, Zarqa University, Jordan. September 2024- Date.
- ii. Member, Assessment Committee, Institutional-Based Research Grants, Usmanu Danfodiyo University, Sokoto, Nigeria. 2024-Date.
- iii. Member of the committee for the establishment of a Faculty Journal for the Faculty of Dentistry, Zarqa University. December 2023-Date
- iv. Member, E-learning Committee, Faculty of Dentistry, Zarqa University. 2023-Date
- v. Member, International Relations, Agreements and Co-operation Committee, Faculty of Dentistry, Zarqa University. 2023-Date
- vi. Member, Infection Control Committee, Faculty of Dentistry, Zarqa University. 2023-Date
- vii. Member, Academic Advisory and Mentoring Committee, Faculty of Dentistry, Zarqa University. June 2023-Date
- viii. Member, Examinations Committee, Faculty of Dentistry, Zarqa University. October 2022-2023.
- ix. Member, Curriculum Development Committee, Faculty of Dentistry, Zarqa University. October 2022-2023.

- x. Member, Quality Assurance and Accreditation Committee, Faculty of Dentistry, Zarqa University. October 2022-Date
- xi. Deputy Dean, Student Affairs (City Campus and Teaching Hospital Complexes), Usmanu Danfodiyo University, Sokoto. April 2022-August 2022.
- xii. Associate Researcher & Member, Coordinating Committee, Centre for Advanced Medical Research and Training, Usmanu Danfodiyo University, Sokoto. February 2020-Date
- xiii. Postgraduate coordinator, Faculty of Basic Medical Sciences (FBMS), College of Health Sciences, Usmanu Danfodiyo University, Sokoto. 2019-2022
- xiv. Representative of the FBMS to the Board of the Postgraduate School, Usmanu Danfodiyo University, Sokoto. 2019-2022
- xv. Faculty level Coordinator for 100-level MBBS students, College of Health Sciences, Usmanu Danfodiyo University, Sokoto, Nigeria, 2015-2022.
- xvi. Departmental Examination Officer, Department of Physiology, FBMS, Usmanu Danfodiyo University, Sokoto. 2011-2013.

**f) Service to Profession/Industry**

- i. Secretary, Scientific Committee, Annual General Meeting of the Nigerian Medical Association held at the International Conference Centre, Sokoto, December 2021.
- ii. Chairman, Special Duties Committee, National Annual General Meeting and Scientific Conference, Association of Specialists Medical Doctors in Academics, Sakkwato 2021, 26<sup>th</sup> September to 2<sup>nd</sup> October 2021.
- iii. Secretary, Continuing Medical Education/Professional Development Committee, Nigerian Medical Association, Sokoto State Chapter, 2020-2022.
- iv. Secretary, LOC, Maiden Annual General Meeting and Scientific Conference of the Association of Specialist Medical Doctors in Academics, Sokoto State Chapter at the College of Health Sciences, Usmanu Danfodiyo University, Sokoto, Nigeria on 13<sup>th</sup> & 14<sup>th</sup> March, 2019.
- v. Secretary, LOC for the 31<sup>st</sup> Annual Scientific Conference and Annual General Meeting of the Physiological Society of Nigeria hosted by the Department of Physiology, College of Health Sciences, Usmanu Danfodiyo University, Sokoto from 7<sup>th</sup> -9<sup>th</sup> September 2011.

**g) Public Service**

- i. Member, Federal Government of Nigeria Medical Team, 2011 Annual Hajj to the Kingdom of Saudi Arabia (November-December 2011).

**6. List of Publications**

**a) International Refereed Journals**

1. Kamaldeen Olalekan Sanusi, Murtala Bello Abubakar, **Kasimu Ghandi Ibrahim** and Mustapha Umar Imam. 2024. Paternal Zinc deficiency and its transgenerational effects on zinc transporters in *Drosophila*. Accepted for publication in the *Journal of Nutritional Science and Vitaminology* on 2<sup>nd</sup> September 2024 (Manuscript ID: JNSV-2024-0090). (**Scopus Q3, SCIE, Impact factor 2023:0.7**).
2. Kamaldeen Olalekan Sanusi, **Kasimu Ghandi Ibrahim**, Murtala Bello Abubakar and Mustapha Umar Imam. 2024. Paternal zinc deficiency alters offspring metabolic status in *Drosophila melanogaster*. *Journal of Trace Elements in Biology and Medicine*. **86** (2024): 127519. DOI: <https://doi.org/10.1016/j.jtemb.2024.127519>. (**Scopus Q1, SCIE, Impact factor 2023: 3.6**).
3. Yaaqub Abiodun Uthman, **Kasimu Ghandi Ibrahim**, Murtala Bello Abubakar, Ismail Sulaiman and Mustapha Umar Imam. 2024. Neuroprotective effects of brown rice consumption in an iron-induced parkinsonism in *Drosophila*. *Nutritional Neuroscience*. DOI: <https://doi.org/10.1080/1028415x.2024.2399> (**Scopus Q1, SCIE, Impact factor 2023: 3.6**).
4. Jelani Muhammad, Kennedy H. Erlwanger, **Kasimu G. Ibrahim** and Lebogang Mokotedi. 2024. Effects of voluntarily consumed sweetened alcohol and naringin on cardiac function in male and female Sprague Dawley rats. *Physiological Reports* 12, e70030. DOI: <https://10.14814/ph2.70030> (**Scopus Q3, ESCI, Impact factor 2023: 2.2**).
5. Abdulbaki Alfa-Ibrahim Adio, Ibrahim Malami, Nafiu Lawal, Amina Yusuf Jega, Bilyaminu Abubakar, Muhammad Bashir Bello, **Kasimu Ghandi Ibrahim**, Murtala Bello Abubakar and Mustapha Umar Imam. 2024. Neurotoxic snakebites in Africa: clinical implications, therapeutic strategies, and antivenom efficacy. *Toxicon*. **247**

- (2024). DOI: <https://doi.org/10.1016/j.toxicon.2024.107811> (Scopus, Q2, SCIE, Impact factor: 2.6).
6. **Kasimu Ghandi Ibrahim**, Kehinde Ahmad Adeshina and Amina Yusuf Jega. 2024. *Garcinia kola*: A Scoping review of its benefits in cardiometabolic health. *Sokoto Journal of Medical Laboratory Science*, 9 (2), 185-196. DOI: <https://doi.org/10.4314/sokjmls.v9i2.22>
  7. Kamaldeen Olalekan Sanusi, Murtala Bello Abubakar, **Kasimu Ghandi Ibrahim** and Mustapha Umar Imam. 2024. Transgenerational impact of maternal zinc deficiency on offspring metabolic outcomes in *Drosophila melanogaster*. *Journal of Nutritional Biochemistry*. **130** (2024), 109669. DOI: <https://doi.org/10.1016/j.jnutbio.2024.109669> (Scopus Q1, SCIE, Impact factor 2023: 5.94).
  8. Amina Jega Yusuf, Musa Ismail Abdullahi, Abubakar Alhaji Muhammad, **Kasimu Ghandi Ibrahim**, Hajara Adamu Wasagu, Gabrielle Bangay, Patricia Rijo. 2024. *Neocarya macrophylla* (Chrysobalanaceae): Review on taxonomy, ethnobotany, phytochemistry and biological activities. *BBR: Biomedical and Biopharmaceutical Research*. **21** (1), 1-22. DOI: <https://doi.org/10.19277/bbr.21.1.330> (Scopus Q3, CiteScore: 0.6) .
  9. Kamaldeen Olalekan Sanusi, **Kasimu Ghandi Ibrahim**, Murtala Bello Abubakar, Tijjani Salihu Shinkafi, Aminu Ishaka and Mustapha Umar Imam. Parental Zinc Deficiency on Metabolic and Redox Outcomes in *Drosophila melanogaster*. *Biology*. **13**, 401. DOI: <https://doi.org/10.3390/biology13060401> (Scopus Q1, SCIE, Impact factor 2023: 3.6).
  10. **Kasimu Ghandi Ibrahim**, Shuaibu Abdullahi Hudu, Amina Yusuf Jega, Ahmad Taha, Abdurrahman Pharmacy Yusuf, Dawoud Usman, Kehinde Ahmad Adeshina, Zayyanu Usman Umar, Trevor Tapiwa Nyakudya and Kennedy Honey Erlwanger. Thymoquinone: A comprehensive review of its potential as a monotherapy for metabolic syndrome. *Iranian Journal of Basic Medical Sciences*. **27 (10)**: 1214-1227. DOI: <https://doi.org/10.22038/IJBMS.2024..77203.16693> (Scopus Q2, SCIE, Impact factor 2023: 2.1).
  11. Kehinde Ahmad Adeshina, **Kasimu Ghandi Ibrahim**, Murtala Bello Abubakar and Mustapha Umar Imam. 2024. Transgenerational inheritance of Insulin resistance in offspring of white rice-fed female fruit flies. *Scientific African*. **24**, e02208; DOI:

- <https://doi.org/10.1016/j.sciaf.2024.e2208> (Scopus Q1, ESCI, Impact factor 2023: 2.7).
12. Saudatu Faruk, Kamaldeen Olalekan Sanusi, **Kasimu Ghandi Ibrahim**, Bilyaminu Abubakar, Ibrahim Malami, Muhammad Bashir Bello, Murtala Bello Abubakar, Abdullahi Yahya Abbas and Mustapha Umar Imam. 2024. Age and sex-based impacts of maternal iron deficiency on offspring's cognitive function and anemia: a systematic review. *European Journal of Clinical Nutrition*. DOI: <https://doi.org/10.1038/s41430-024-01423-x> (Scopus Q1, SCIE, Impact factor 2023: 3.6).
  13. Murtala Bello Abubakar, Abdurrahman Pharmacy Yusuf, Dawoud Usman, Ibrahim Babangida Abubakar, Babangida Sanusi Katsayal, Idris Zubairu Sadiq, Shehu Muhammad Hassan, Gilead Ebiegberi Forcados, **Kasimu Ghandi Ibrahim**, Shuaibu Abdullahi Hudu and Aliyu Muhammad. 2024. Potential benefits and challenges on the use of phytochemicals for obese Covid-19 patients: A review. *Phytomedicine Plus*. **4** (2024), 100526. DOI: <https://doi.org/10.1016/j.phyplu.2024.100526> (Scopus Q3, CiteScore 2023: 3.7).
  14. Samuel Odo Uko, Ibrahim Malami, **Kasimu Ghandi Ibrahim**, Nafiu Lawal, Muhammad Bashir Bello, Murtala Bello Abubakar and Mustapha Umar Imam. 2024. Revolutionizing snake care with novel antivenoms: breakthroughs and barriers. *Heliyon*. **10** (2024) e25531. DOI: <https://doi.org/10.1016/j.heliyon.2024.e25531> (Scopus Q1, SCIE, Impact factor 2023: 3.4).
  15. Kamaldeen Olalekan Sanusi, Murtala Bello Abubakar, **Kasimu Ghandi Ibrahim** and Mustapha Umar Imam. 2024. Transgenerational effects of maternal zinc deficiency on Zinc transporters in *Drosophila Melanogaster* model. *Biological Trace Elements Research*. DOI: <https://doi.org/10.1007/s12011-024-04071-1> (Scopus Q1, SCIE, Impact factor 2023: 3.4).
  16. **Kasimu Ghandi Ibrahim**, Eliton Chivandi and Kennedy Honey Erlwanger. 2024. The impact of administration of fenofibrate during suckling on glucose homeostasis and programming of metabolic function in adolescent Sprague Dawley rats. *Biomedical and Pharmacology Journal*. **17** (1), 83-96. DOI: <https://doi.org/10.13005/bpj/2836> (Scopus Q3, CiteScore 2023: 1.2).
  17. Shuaibu Hudu Abdullahi, Abdulgafar Olayiwola Jimoh, **Kasimu Ghandi Ibrahim**, Yahaya Mohammed, Kehinde Ahmad Adeshina, Ahmed Kolawole Jimoh, Jibril

- Abubakar, Dawoud Usman and Abadalla Mohamad Jama. 2024. Dissecting the low morbidity and mortality during the COVID-19 pandemic in Africa: a critical review of the facts and fallacies. *Advances in Traditional Medicine*. DOI: <https://doi.org/10.1007/s13596-023-00739-6> (Scopus Q2, ESCI, Impact factor 2023: 1.8).
18. Dawoud Usman, Murtala Bello Abubakar, **Kasimu Ghandi Ibrahim** and Mustapha Umar Imam. 2024. Iron chelation and supplementation: a comparison in the management of inflammatory bowel disease using drosophila. *Life Sciences*. **336**, 122328. DOI: <https://doi.org/10.1016/j.lfs.2023.122328> (Scopus Q1, SCIE, Impact factor 2023: 5.2).
  19. **Kasimu Ghandi Ibrahim**, Sagir Kaka Shinkafi, Aminu Ishaka and Suleiman Ahmed Isa. 2023. Antidiabetic and thrombolytic activities of selected of some selected medicinal plants in high-fat diet and dexamethasone-induced type 2 diabetic rats. *Journal of African Association of Physiological Sciences*. **11** (2), 12-24. DOI: <https://doi.org/10.4314/jaaps.v11i2.2>
  20. **Kasimu Ghandi Ibrahim**, Eliton Chivandi, Kennedy Honey Erlwanger and Richard Leslie Brooksbank. 2023. Neonatal administration of fenofibrate had no developmental programming effect on the lipid profile and relative leucocyte telomere lengths of adolescent rats fed a high fructose diet postnatally. *Canadian Journal of Physiology and Pharmacology*. **101**, 565-573. DOI: <https://doi.org/10.1139/cjpp-2022-0528> (Scopus Q3, SCIE, Impact factor 2023: 2.1).
  21. Bashar Farida, **Kasimu G. Ibrahim**, Bilyaminu Abubakar, Ibrahim Malami, Muhammad B. Bello, Murtala B. Abubakar, Abdullahi Y. Abbas and Mustapha U. Imam. 2023. Iron deficiency and epigenetic effects on iron homeostasis. *Journal of Trace Elements in Medicine and Biology*. **78** (2023). 127203 DOI: <https://doi.org/10.1016/j.jtemb.2023.127203> (Scopus Q1, SCIE, Impact factor 2023: 3.6).
  22. Mutolib Olabayo Olatubosun, Murtala Bello Abubakar, Gaber El-Saber Batiha, Ibrahim Malami, **Kasimu Ghandi Ibrahim**, Bilyaminu Abubakar, Muhammad Bashir Bello, Athanasios Alexiou and Mustapha Umar Imam. 2023. LncRNA SNHG15: A potential therapeutic target in the treatment of colorectal cancer. *Chemical Biology & Drug Design*. **101**, 1138-1150. DOI: <https://doi.org/10.1111/cbdd.14036> (Impact factor 2023: 3.2).

23. Saheed Olanrewaju Saka, Yusuf Yahaya Salisu, Hauwaú Muhammad Sahabi, Kamaldeen Olalekan Sanusi, **Kasimu Ghandi Ibrahim**, Murtala Bello Abubakar; Suleiman Ahmed Isa; Muhammad Gidado Liman; Sha'aya'u Shehu; Ibrahim Malami; Kim Wei Chan, Nur Hanisah Azmi and Mustapha Umar Imam. 2023. Nutrigenomic Effects of White Rice and Brown Rice on the Pathogenesis of Metabolic Disorders in a Fruit Fly Model. *Molecules*. 28, 532. DOI: <https://doi.org/10.3390/molecules28020532> (Scopus Q1, SCIE, Impact factor 2023: 4.2).
24. **Kasimu Ghandi Ibrahim**, Nyasha Charity Mukonowenzou, Dawoud Usman, Kehinde Ahmad Adeshina and Kennedy Honey Erlwanger. 2023. The potential of Artemisia species for use as broad-spectrum agents in the management of metabolic syndrome: a review. *Archives of Physiology and Biochemistry*, **129**, 752-770. DOI: <https://doi.org/10.1080/13813455.2021.1871761> (Impact factor 2022: 3, JCR: Q2).
25. **Ibrahim KG** and Umar ZU. 2022. *Cucumis sativus* L. (cucumber): a review of its antimetabolic syndrome activity. *Caliphate Medical Journal*. **10** (3&4), 662-668. DOI: <https://doi.org/10.47837/CMJ.2022102.9>
26. Nasiru S. Kangiwa, Basiru Shuaibu, Buhari Aliyu, Isiyaku M. Gwarzo, Kabiru A. Ladan, Shahzad Ahmad, Kamaldeen O. Sanusi, **Kasimu G. Ibrahim** and Murtala B. Abubakar. 2022. The Prevalence of Visual Acuity Impairment among Children in Nigeria: A Systematic Review. *Annals of Basic and Medical Sciences*. **3** (1): 195-200. DOI: <https://doi.org/10.51658/ABMS.202231.7>
27. Shuaibu Hudu Abdullahi, Abdulgafar Olayiwola Jimoh, **Kasimu Ghandi Ibrahim** and Ahmed Subeh Alshrari. 2022. Hepatitis B Therapeutic Vaccine: A Patent Review. *Pharmaceuticals*. **15**, 1542. DOI: <https://doi.org/10.3390/ph15121542> (Scopus Q2, SCIE, Impact factor 2023: 4.3, JCR: Q1).
28. **Kasimu Ghandi Ibrahim**, Eliton Chivandi, Pilani Nkomozepe and Kennedy Honey Erlwanger. 2022. Neonatal Orally administered curcumin: impact on the metabolic response and renal histology of Sprague Dawley rats fed a high fructose diet until adolescence. *Bulletin of the National Research Centre*. **46**, 153. DOI: <https://doi.org/10.1186/s42269-022-00845-6>
29. **Kasimu Ghandi Ibrahim**, Dawoud Usman, Muhammad Bashir Bello, Ibrahim Malami, Bilyaminu Abubakar, Murtala Bello Abubakar and Mustapha Umar Imam. 2022. Rodent models of metabolic disorders: considerations for use in studies of neonatal programming. *British Journal of Nutrition*. **128**, 802-827. DOI:



- <https://doi.org/10.1017/S0007114521003834> (Scopus Q1, SCIE, Impact factor 2023: 3.6).
30. **Kasimu Ghandi Ibrahim**, Kehinde Ahmad Adeshina, Muhammad Bashir Bello, Ibrahim Malami, Bilyaminu Abubakar, Murtala Bello Abubakar and Mustapha Umar Imam. 2022. Prophylactic use of natural products against developmentally programmed metabolic syndrome. *Planta Medica*. **88** (8), 650-663. DOI: <https://doi.org/10.1055/a-1482-2343> (Scopus Q1, SCIE, Impact factor 2023: 2.1).
  31. **Ibrahim, K.G.**, Audu, B.B., Mainasara, A.S and Abubakar, M.B. 2021. Effect of co-administration of Glibenclamide and aqueous calyx extract of *Hibiscus sabdariffa* on oxidative stress markers in streptozotocin-induced diabetic rats. *Nigerian Journal of Physiological Sciences*. **36** (1), 77-84. (Scopus Q4, CiteScore: 0.8)
  32. Murtala Bello Abubakar, Ayodeji Oluwatobi Fatola, Kamaldeen Olalekan Sanusi and **Kasimu Ghandi Ibrahim**. 2021. The burden of obesity in Nigeria. *Nigerian Journal of Basic and Applied Medical Sciences*. **1**, 23-27. DOI: <https://doi.org/10.53994/NJBAMS.202111.5>
  33. Nyasha C. Mukonowenzou, Kehinde A. Adeshina, Janine Donaldson, **Kasimu G. Ibrahim**, Dawoud Usman and Kennedy Erlwanger. 2021. Medicinal plants, phytochemicals and maturation of the gastrointestinal tract (GIT). *Frontiers in Physiology*. **12**, 684464. DOI: <https://doi.org/10.3389/fphys.2021.684464> (Scopus Q2, SCIE, Impact factor 2023: 3.2).
  34. Yaaqub Abiodun Uthman, **Kasimu Ghandi Ibrahim**, Bilyaminu Abubakar, Muhammad Bashir Bello, Ibrahim Malami, Mustapha Umar Imam, Naeem Qusty, Natalia Cruz-Martins, Gaber El-Saber Batiha and Murtala Bello Abubakar. 2021. MALAT1: a promising therapeutic target for the treatment of metastatic colorectal cancer. *Biochemical Pharmacology*, **190**, 114657. DOI: <https://doi.org/10.1016/j.bcp.2021.114657> (Scopus Q1, SCIE, Impact factor 2023: 5.3).
  35. Murtala Bello Abubakar, Ya'aqub Abiodun Uthman and **Kasimu Ghandi Ibrahim**. 2021. Prevalence of Overweight and Obesity among Health Workers in Ghana: A systematic review. *Nigerian Journal of Experimental and Clinical Biosciences*. **9**, 47-53. DOI: [https://doi.org/10.4103/njcep.njcep\\_39\\_20](https://doi.org/10.4103/njcep.njcep_39_20)
  36. Murtala Bello Abubakar, Gaber El-Saber Batiha, Natalia Cruz-Martins, Arabinda Ghosh, Dawoud Usman, Ibrahim Malami, **Kasimu Ghandi Ibrahim**, Bilyaminu Abubakar, Muhammad Bashir Bello, Aliyu Muhammad, Siew Hua Gan, Aliyu

- Ibrahim Dabai and Mustapha Umar Imam. 2021. Natural products modulating angiotensin-converting enzyme 2 (ACE2) as potential COVID-19 therapies. *Frontiers in Pharmacology*, **12**: 629935. DOI: <https://doi.org/10.3389/fphar.2021.629935> (Scopus Q1, SCIE, Impact factor 2023: 4.4).
37. Abdurrahman Yusuf Pharmacy, Murtala Bello Abubakar, Ibrahim Malami, **Kasimu Ghandi Ibrahim**, Bilyaminu Abubakar, Muhammad Bashir Bello, Naeem Qusty, Sara T. Elazab, Mustapha Umar Imam, Athanasios Alexiou and Gaber El-Saber Batiha. 2021. Zinc metalloproteins in epigenetics and their crosstalk. *Life*, 2021, **11**, 186. DOI: <https://doi.org/10.3390/life11030186> (Scopus Q1, SCIE, Impact factor 2023: 3.2).
  38. Kamaldeen Olalekan Sanusi, **Kasimu Ghandi Ibrahim**, Bilyaminu Abubakar, Ibrahim Malami, Muhammad Bashir Bello, Mustapha Umar Imam and Murtala Bello Abubakar. 2021. Effect of maternal zinc deficiency on offspring's health. *Journal of Trace Elements in Medicine and Biology*. **65** (2021), 126731. DOI: <https://doi.org/10.1016/j.jtemb.2021.126731> (Scopus Q1, SCIE, Impact factor 2023: 3.6).
  39. **Kasimu Ghandi Ibrahim** and Amina Yusuf Jega. 2020. Exploring the potentials of curcumin as a single agent in the management of metabolic syndrome. 2020. *Annals of Basic and Medical Sciences*, **1**(1), 6-12. DOI: <https://doi.org/10.51658/ABMS.202011.2>
  40. Shu'aibu RB, Bathnna SJ, Sadau Y, Mohammed A, Umar MS, Abubakar MB, **Ibrahim K G** and Yarube IU. 2020. Association of Microalbuminuria with Retinopathy and Glycated Haemoglobin among Type II Diabetes Patients Attending a Hospital in Bauchi, Nigeria. *Jewel Journal of Medical Sciences*, **1** (2): 144-152. <https://doi.org/10.5281/zenodo.5576745>
  41. Bashir Saidu, Frank Babatunde Oluwole Mojiminiyi, Clement Barikuma Innocent, Chinedu Onwuchekwa, Murtala Bello Abubakar, Umar Zayyanu Usman, Adamu Jibril Bamaïyi and **Kasimu Ghandi Ibrahim**. 2020. Comparative assessment of blood pressure parameters between different sex and different reproductive stages of red Sokoto goat. *Journal of Animal Health and Production*, **8** (4), 189-192. DOI: <https://doi.org/10.17582/journal.jahp/2020/8.4.189.192> (Scopus Q3, Cite score: 1.3).

42. N. Muhammad, **K.G. Ibrahim**, A.R. Ndhlala and K.H. Erlwanger. 2020. *Moringa Oleifera* Lam. Prevents the development of high fructose diet-induced fatty liver. *South African Journal of Botany*. **129**, 32-39. DOI: <https://doi.org/10.1016/j.sajb.2018.12.003> (Scopus Q1, SCIE, Impact factor 2023: 2.7).
43. **Kasimu Ghandi Ibrahim** and Nasiru Sani Kangiwa. 2020. A review of the phytochemistry and biological activities of *Hibiscus sabdariffa* (Zobo) plant. *Annals of Clinical and Experimental Medicine* **1**, 6-15. DOI: [10.47838/acem.26011977.11162020.asmeda.2.0](https://doi.org/10.47838/acem.26011977.11162020.asmeda.2.0)
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45. Suleiman Ahmad Isa, **Kasimu Ghandi Ibrahim**, Andrew Onu, Sagir Kaka Shinkafi, Rukayya Nuhu Ismail and Tijjani Salihu Shinkafi. 2019. Hypolipidemic and antioxidant effects of camel milk in high fat diet fed hyperlipidemic rats. *International Journal of Medical and Biomedical Studies* **3 (2)**, 143-153. DOI: <https://doi.org/10.32553/ijmbs.v3i2.131>
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#### **b) Conference Papers**

1. Wali U, Ahmad A, Yinka J.O., **Ibrahim K.G.**, Saidu Y and Abbas AY. Modulatory effects of Natron on biochemical indices and cardiac muscle gene expression in postpartum albino rats. A paper presented at the 2<sup>nd</sup> Annual College of Health Sciences, Usmanu Danfodiyo University, Sokoto Scientific Conference and Annual General Meeting held at the Auditorium of the College of Health Sciences, Usmanu Danfodiyo University, Sokoto, Nigeria on 17<sup>th</sup> August 2024.
2. Saudatu Faruk, Zainab Hassan Bello, Hauwa Abubakar Manga, Atika Musa, **Kasimu Ghandi Ibrahim**, Abdullahi Yahya Abbas and Mustapha Umar Imam. Epigenetic modifications in ageing and disease: a review on the role of DNA methylation. A paper presented at the 2<sup>nd</sup> Annual College of Health Sciences, Usmanu Danfodiyo University, Sokoto Scientific Conference and Annual General Meeting held at the Auditorium of the College of Health Sciences, Usmanu Danfodiyo University, Sokoto, Nigeria on 17<sup>th</sup> August 2024.
3. **Kasimu Ghandi Ibrahim**, Kamaldeen Olalekan Sanusi, Murtala Bello Abubakar and Mustapha Umar Imam. Intergenerational impact of parental zinc deficiency on metabolic outcomes in *Drosophila melanogaster*. A paper presented at the Physiology in Focus Conference held at the University of Northumbria, Newcastle upon Tyne, United Kingdom from the 2<sup>nd</sup>-4<sup>th</sup> July 2024.
4. Jelani Muhammad, **Kasimu G. Ibrahim**, Lebogang Mokotedi and Kennedy H. Erlwanger. Naringin protects against sweetened alcohol-induced hepato-steatosis in male and female adolescent Sprague-Dawley rats. A paper presented at the 41<sup>st</sup> Annual Scientific Conference of the Physiological Society of Nigeria held at College of Continuing Education, Rivers State University, Port Harcourt, Rivers State from 12<sup>th</sup>-17<sup>th</sup> February 2024.
5. Kehinde Ahmad Adeshina, Shatu Musa, **Kasimu Ghandi Ibrahim**, Murtala Bello Abubakar and Mustapha Umar Imam. Maternal white rice consumption alters the

expression of metabolic genes in *Drosophila* offspring. A paper presented at the 3<sup>rd</sup> Annual General Meeting and Scientific Conference of the Association of Specialist Medical Doctors in Academics (ASMeDA aka MeDSABAMS) held in the Boardroom of the College of Health Sciences, Usmanu Danfodiyo University, Sokoto on 11<sup>th</sup> January, 2024.

6. Jelani Muhammad, **Kasimu G. Ibrahim**, Lebogang Mokotedi and Kennedy H. Erlwanger. Effects of sweetened alcohol and Naringin on visceral obesity in adolescent Sprague Dawley rats. A paper presented at the 3<sup>rd</sup> Annual General Meeting and Scientific Conference of the Association of Specialist Medical Doctors in Academics (ASMeDA aka MeDSABAMS) held in the Boardroom of the College of Health Sciences, Usmanu Danfodiyo University, Sokoto on 11<sup>th</sup> January, 2024.
7. Salami Rukayat Monisola, Isa Suleiman Ahmed, Shehu Shaaya, Umar Zayyanu Usman, **Kasimu Ibrahim Ghandi** and Murtala Bello Abubakar. Metabolic effects of gestational exposure to allethrin-based mosquito repellents in female Wistar rats and their offspring. A paper presented at the 3<sup>rd</sup> Annual General Meeting and Scientific Conference of the Association of Specialist Medical Doctors in Academics (ASMeDA aka MeDSABAMS) held in the Boardroom of the College of Health Sciences, Usmanu Danfodiyo University, Sokoto on 11<sup>th</sup> January, 2024.
8. Yaaqub Abiodun Uthman, Murtala Bello Abubakar, **Kasimu Ghandi Ibrahim**, Isma'il Sulaiman and Mustapha Umar Imam. Brown rice modulates the Nrf2 signalling pathway to prevent iron-induced oxidative damage in a *Drosophila* model of Parkinson-like disease. A paper presented at the 3<sup>rd</sup> Annual General Meeting and Scientific Conference of the Association of Specialist Medical Doctors in Academics (ASMeDA aka MeDSABAMS) held in the Boardroom of the College of Health Sciences, Usmanu Danfodiyo University, Sokoto on 11<sup>th</sup> January, 2024.
9. Adeshina KA, **Ibrahim KG**, Abubakar MB and Imam MU. Transgenerational programming of insulin resistance in offspring of white rice-fed female fruit flies. A paper presented at the maiden scientific joint conference of the East African Society of Physiological Sciences and African Association of Physiological Sciences held on 29<sup>th</sup> November to 1<sup>st</sup> December 2023 at Dar Es Salaam, Tanzania. (Virtual).
10. Jelani Muhammad, **Kasimu G. Ibrahim**, Kennedy H. Erlwanger and Lebogang Mokotedi. Effects of sweetened alcohol and naringin on cardiometabolic changes in adolescent male and female Sprague Dawley rats. A paper presented at the School of Physiology, Faculty of Health Sciences, University of the Witwatersrand Research Day

held on the 13<sup>th</sup> of September 2023 at the Staff Lounge, Bohaleng Block, Education Campus, University of the Witwatersrand, Johannesburg, Republic of South Africa.

11. Kaka SS, Ishaka A, Isa SA and **Ibrahim KG**. Antidiabetic activities of selected medicinal plants in high fat and dexamethasone-induced type 2 diabetic rats. A paper presented at the Nigerian Medical Association, Sokoto State Chapter, Annual General Meeting and Scientific Conference on the 16<sup>th</sup>-17<sup>th</sup> of August 2023.
12. Kaka SS, Ishaka A, Isa SA and **Ibrahim KG**. Thrombolytic activities of selected medicinal plants in high fat and dexamethasone-induced type 2 diabetic rats. A paper presented at the College of Health Sciences, Usmanu Danfodiyo University, Sokoto Maiden Scientific Conference and Alumni Annual General Meeting on the 15<sup>th</sup> of July 2023
13. Adeshina KA, **Ibrahim KG**, Abubakar MB and Imam MU. Development of a high sugar-induced type 2 diabetes model in *Drosophila melanogaster*: effect of dosage, developmental exposure and postnatal challenge. A paper presented at the College of Health Sciences, Usmanu Danfodiyo University, Sokoto Maiden Scientific Conference and Alumni Annual General Meeting on the 15<sup>th</sup> of July 2023.
14. Sanusi KO, Abubakar MB, **Ibrahim KG** and Imam MU. Parental Zinc deficiency and offspring intergenerational metabolic status. A paper presented at the College of Health Sciences, Usmanu Danfodiyo University, Sokoto Maiden Scientific Conference and Alumni Annual General Meeting on the 15<sup>th</sup> of July 2023.
15. Sanusi KO, Abubakar MB, **Ibrahim KG** and Imam MU. Paternal zinc deficiency distorts glucose metabolism by transgenerational alterations of *dilp2* and *dpepck* in *Drosophila melanogaster* offspring. A paper presented at the 40<sup>th</sup> Scientific Conference and Annual General Meeting of the Physiological Society of Nigeria at the Department of Physiology, College of Medicine, University of Ibadan, Oyo State, Nigeria from 7<sup>th</sup>-11<sup>th</sup> February 2023.
16. Sanusi K.O., Abubakar B., Malami I., Bello MB., **Ibrahim KG.**, Abubakar MB and Imam, MU. Dietary zinc deficiency induces oxidative stress and alters development in fruit flies: a preliminary study. A paper presented at the 39<sup>th</sup> Scientific Conference and Annual General Meeting of the Physiological Society of Nigeria at the Department of Human Physiology, Bayero University, Kano from 26<sup>th</sup>-30<sup>th</sup> October 2021.
17. Kehinde Ahmad Adeshina, Yaaqub Abiodun Uthman, Mutolib Olabayo Olatubosun, Dawoud Usman, Alhassan Muhammad Alhassan, Bilyaminu Abubakar, Ibrahim Malami, Muhammad Bashir Bello, **Kasimu Ghandi Ibrahim**, Murtala Bello Abubakar

and Mustapha Umar Imam. Evaluation of Acute and Sub-acute toxicity of 5-methylcoumarin-4 $\beta$ -glucoside in mice. A paper presented at the 39<sup>th</sup> Scientific Conference and Annual General Meeting of the Physiological Society of Nigeria at the Department of Human Physiology, Bayero University, Kano from 26<sup>th</sup>-30<sup>th</sup> October 2021.

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20. **Kasimu Ghandi Ibrahim**, Eliton Chivandi, Kennedy Erlwanger and Richard Brooksbank. The developmental programming effect of fenofibrate on the lipid profile and leucocyte telomere lengths of adolescent rats fed a high fructose diet postweaning. AAPS- PSSA 1<sup>st</sup> Virtual Congress hosted by the University of the Witwatersrand, Johannesburg, Republic of South Africa, 12-15<sup>th</sup> September 2021.
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25. **Kasimu Ghandi Ibrahim**, Oluwatosin Imoleayo Oyeniran & Frank Babatunde Mojiminiyi. Correlation between some academic qualifications at entry and performance in the pre-MBBS promotion examination of year two medical students of Usmanu Danfodiyo University, Sokoto, Nigeria. Presented at the 4<sup>th</sup> African Association of Physiological Sciences Educational workshop, University of Rwanda, Kigali, Rwanda, 2<sup>nd</sup>-4<sup>th</sup> December 2018.
26. **K.G. Ibrahim**, E. Chivandi, P. Nkomozepe & K.H. Erlwanger. Neonatal administration of curcumin protects high fructose diet induced non-alcoholic steatohepatitis in male adolescent Sprague Dawley rats. Europhysiology conference 2018, Queen Elizabeth Centre, London, 14-16<sup>th</sup> September 2018.
27. **K.G. Ibrahim**, N. Muhammad, A.R. Ndhlala & K.H. Erlwanger. *Moringa oleifera* protects growing male Sprague Dawley rats from high fructose diet-induced hepatic lipid accumulation but may predispose them to visceral obesity. Presented at the 37<sup>th</sup> Annual Scientific Conference of the Physiological Society of Nigeria, Kaduna State University, Kaduna from 31<sup>st</sup> October- 2<sup>nd</sup> November 2017.
28. M.B. Abubakar, B. Aliyu, A.J. Bamaiyi & **K.G. Ibrahim**. Trend of blood pressure readings in young undergraduate adults with and without family history of hypertension. Presented at the 37<sup>th</sup> Annual Scientific Conference of the Physiological Society of Nigeria, Kaduna State University, Kaduna from 31<sup>st</sup> October- 2<sup>nd</sup> November 2017.
29. **Ibrahim, K.G.**, Chivandi, E., Mojiminiyi, F.B.O. and Erlwanger, K.H. Effects of early administration of *Hibiscus sabdariffa* aqueous calyx extracts on the neonatal programming of metabolic dysfunction. Presented at the 35<sup>th</sup> annual scientific conference of the Physiological Society of Nigeria held at the CEMAC Centre, University of Nigeria, Enugu Campus, Enugu state from the 16<sup>th</sup>-18<sup>th</sup> September 2015.
30. **Ibrahim, K.G.**, Chivandi, E., Mojiminiyi, F.B.O. and Erlwanger, K.H. Does early administration of an aqueous calyx extract of *Hibiscus sabdariffa* have an effect on the

response of Sprague Dawley rats to a high fructose diet in adolescence? Presented at the 43<sup>rd</sup> congress of the Physiology Society of Southern Africa at Khaya iBHubesi, Parys, Free State, Republic of South Africa from the 6<sup>th</sup>-9<sup>th</sup> September 2015.

31. Musa, M.A., Zagga, A.D., Usman, J.D., Bello, A., Abdulhameed, A., Bello, S.S., Bala, G.M., Ammani, T., Onimisi, B.O. and **Ibrahim, K.G.** Is Neuroanatomy (NA) really that difficult? Presented at the Annual Scientific Conference and General Meeting of the Nigeria Academy of Neurological Surgeons at Giginya Coral Hotel, Sokoto on the 20<sup>th</sup> of November 2015.
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#### c) Books/ Book Chapters

Dawoud Usman, Ahmad Kehinde Adeshina, Yaaqub Uthman, Kamaldeen Olalekan Sanusi, **Kasimu Ghandi Ibrahim** and Mustapha Umar Imam. 2022. Phytochemistry of Brown Rice and Its Nutrigenomic Implications. **UNESCO-Encyclopaedia of Life Support Systems (EOLSS) Book Chapter. Ongoing.**

#### **d) References**

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