

Oladun Busayo Timothy

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EDUCATION

Arizona State University, USA	(Ph.D. Nutrition)	(in view)
Doctoral Student- Exercise and Nutritional Sciences		
University of Ibadan, Nigeria	(M.SC Physiology)	October 2015
<i>(Overall GPA 3.73)</i> <i>Masters' thesis: Effect of adrenergic receptor blockers on cortisol-induced hyperglycemia and blood lactate in common African toad</i>		
Olabisi Onabanjo University, Nigeria (B.SC Physiology)		August 2010
<i>(Overall GPA 3.28)</i> <i>Graduation project: Effect of Cotrimoxazole on blood glucose in male Wister rats</i>		

ACADEMIC/ PROFESSIONAL EXPERIENCE

i. Arizona State University, USA	2023- till date
Graduate Research Associate- kimlabasu.com	
ii. Lead City University, Ibadan	2020-till date
Lecturer II, Department of Physiology	
iii. Rhowil Total Care Medical Centre, Lagos	2016-2019
Medical physiologist	
iv. Federal Neuro-Psychiatric Hospital, Calabar, Cross River State	2012-2013
Residency, Training, and Research Assistant	

RESEARCH/TEACHING EXPERIENCE

Blood and Immune Physiology (Lead City University)	First Semester 2023
Introduction to Neurophysiology (Lead City University)	First Semester 2023
Nerve and Muscle Physiology (Lead City University)	First Semester 2023
Biotechnology and Microbiology (Lead City University)	First Semester 2023
Respiratory Physiology (Lead City University)	Second Semester 2022
Nerve and Muscle Physiology for Radiographers(Lead City University)	Second Semester 2022
General Physiology II for Nursing Students(Lead City University)	Second Semester 2022
Endocrinology (Lead City University)	Second Semester 2022
Blood and Immune Physiology (Lead City University)	First Semester 2021
Pathophysiology/ Clinical Physiology (Lead City University)	First Semester 2021
Nerve and Muscle Physiology (Lead City University)	First Semester 2021
Gastrointestinal Physiology (Lead City University)	First Semester 2021
Biotechnology and Microbiology (Lead City University)	First Semester 2021
General Physiology II for Nursing Students(Lead City University)	Second Semester 2020
Respiratory Physiology (Lead City University)	Second Semester 2020
Nerve and Muscle Physiology (Lead City University)	First Semester 2020
Blood and Immune (Lead City University)	First Semester 2020
General Physiology I for Nursing Students(Lead City University)	First Semester 2020
Pathophysiology/ Clinical Physiology (Lead City University)	First Semester 2020
Biotechnology and Microbiology (Lead City University)	First Semester 2020
Motor Systems and Special Senses(Lead City University)	First Semester 2020

General Physiology for Nurses (School of psychiatric Nursing, Calabar)	2012-2013
B.Sc Project Supervision (4 Students)	2020-2021
B.Sc Project Supervision (4 Students)	2021-2022
B.Sc Project Supervision (4 Students)	2022-2023

TECHNICAL COMPETENCE

- i. **Electrophysiology recording and interpretation**
- ii. **MRI-Guided Anatomical Targeting**
- iii. **Stereotactic Surgery in laboratory rats**
- iv. **Surgery:** Dorsal root ganglion extraction, Craniotomy, Suturing, brain removal e.t.c
- v. **Basic Biomolecular techniques:** Pipetting, Nucleic acid extraction, Nucleic acid quality assessment, Agarose gel electrophoresis, and Polymerase Chain Reaction (PCR).
- vi. **3D printing of medical apparatus and instructional materials**
- vii. **Immunohistochemistry:** I can carry out immune staining, binding of primary and secondary antibodies, and capture using a microscope.
- viii. **Animal Handling:** I Worked with rats, mice, and common African toads; Dosing routes: oral, i.p., s.c., and i.m. Collection of blood by cardiac puncture and truncus ateriosus, blood plasma and serum separation, and perfusion methods.
- ix. **Development of animal models:** Induction of various models of inflammation and nociception; induction of hyperglycemia using cortisol.
- x. **Surgical procedures:** General surgical procedures of dissection of the major biological systems in mammalian and non-mammalian species, perfusion of brain and removal, cannulation vessels in rats and toads.
- xi. **Tissue processing:** Homogenization of brain tissues and sample preparation.
- xii. **Histological techniques:** Formalin fixation, visualization, and image capturing in a bright field microscope.
- xiii. **Computer Skills:** Proficient use of Windows 98, 2000, 2007, 2008 and 2010 (Word, Excel, Powerpoint, Access, Outlook), Internet Utility and PC fundamentals, ability to use various data analysis software like Graphpad Prism and SPSS.
- xiv. **Personal Skills:** Proficient data analysis, evaluation, and interpretation prowess, excellent communication/interpersonal skills, self-motivated, result-oriented and target-driven, can-do-spirit, and positive attitude.

HONOURS AND AWARDS

- i. **NYSC Commendation:** This award is given to exceptional corps during the service year for volunteering activities done as service to the fatherland.
- ii. **Obubra Orientation Camp Commendation:** This award is given to corp members with sterling performances during the three-week orientation camp.

PUBLICATIONS AND PRESENTATIONS

- i. **Oladun, B.T.**, Oyerinde, A., Oyadeyi, A.S., Ayinde, B.H. and Onasanwo, A.S. (2023). Effect of *Cocos nucifera* L. water on scopolamine-induced memory impairment in the Wistar rat. *Nig. J. Neurosci.* 14(1): 17-26. <http://doi.org/10.47081/njn2023.14.1/003>
- ii. Oyadeyi Ayodele, **Oladun Busayo**, Oyerinde Abiodun, Babalola Kabirat, Ajibare Ayodeji (2022). Experimental Physiology manual and Workbook.-ISBN-978-978-59647-4-5
- iii. "Effect of coconut (*cocos nucifera*) water on scopolamine-induced memory impairment in laboratory rats" Neuroscience Society of Nigeria, Ibadan 2022 themed "Neuroscience as a tool for Translational Research in Africa" (July 31- August 3, 2022)
- iv. **Busayo T. Oladun**, Gbenga S. Olayinka, Oyetola T. Oyebanjo, Abayomi M. Ajayi, Samuel A. Onasanwo: **Analgesic and anti-inflammatory potentials of *Chrysophyllum albidum* stem bark in laboratory rodents-** *presented at conference at 7th Unibadan conference of biomedical research with the theme Dynamism in Biomedical Sciences and Health (September 15-17, 2021)*
- v. Isehunwa, G.O; **Oladun, O.T**; Akpan J.E. and Alada, A.R.A. (2017): **Effect of cortisol on plasma lactate levels following cortisol induced hyperglycemia in common African Toads (*Buforegularis*)-niger.j.physiol.sci.32 (June 2017) 21-25.**
- vi. **Oladun, T. O.** and Taiwo, E. O.(2016): **Effect of Septrin (Co-Trimoxazole) on blood glucose in Wistar albino rats – International Journal of Healthcare Sciences IJHS Vol 4, issue 1 pp.192-195**
- vii. **Oladun, T.O**, Isehunwa, G.O and Alada A.R.A (2015): **Effect of adrenergic receptor blockers (propranolol and prazosin) on cortisol induced hyperglycemia and blood lactate in Common African toads (*Bufo regularis*)** presented at PSN conference 2015 at Enugu and in conference proceedings as well as the book of abstract(September 16-19, 2015)

COMMUNITY/VOLUNTEERING SERVICE

- i. I volunteer as a GPSA grant reviewer for the 2023/2024 academic year to review grant applications from students at Arizona State University. This position is borne out of the willingness to serve others and it does not attract financial remuneration.

- ii. I belonged to a group known as the “Patient Visitation Group” saddled with the responsibility of visiting in-patients at any hospital and encouraging such ones while discussing with the Medical doctors the optimum medical care for the patient especially when it relates to bloodless medicine as well as getting groceries for them to improve the quality of life. This service is purely voluntary.(2020-2023)
- iii. I am a volunteer patron of the yearly She Wins, Osun which encourages girl children to pursue a career in STEM courses. The targets are secondary schools in Osun State, Nigeria.
- iv. I volunteered as president of the community development service on National Emergency Management where I led routine outreach fire, flood, and metabolic diseases prevention within Calabar, Cross-river State, Nigeria. (2012-2013)
- v. In 2018, I constructed a speed breaker within my street to reduce the cases of accidents especially because of differently abled individuals crossing the street.

ACADEMIC AND PROFESSIONAL MEMBERSHIP

The Physiological Society (PHYSOC), U.K

International Society for Neurochemistry (ISN)

Neuroscience Society of Nigeria (NSN)

Physiological Society of Nigeria (PSN)

African Association of Physiological Sciences (AAPS)

HOBBIES

I love cycling. I watch lots of football. I love seeing nature.

REFEREES

1. Dr. Min-Hyun Kim

Assistant Professor of Nutrition

College of Health Solutions

Arizona State University

min-huyn.kim@asu.edu

2. Prof. Carol Johnston

Professor and Associate Dean, Nutrition Program

College of Health Solutions

Arizona State University

carol.johnston@asu.edu