

ADEDEJI BERNARD OPEYEMI

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Education

B.Tech Ladoke Akintola University of technology, Physiology

June 2021

Work Experience

Graduate Assistant

Department of Physiology, Federal
University of Health Sciences Ila
Orangun, Osun State, Nigeria-
2023- Present

- Conducted tutorial sessions on Human Physiology for undergraduate students in MBBS, Audiology, Pharmacology, Medical Laboratory Science, Information Technology and Health Informatics, Nursing, Nutrition, and Dietetics, with an average of 250 students per semester.
- Covered a range of topics, including general physiology, blood and cardiovascular system, reproductive physiology, thermoregulation, and neurophysiology system.
- Graded quizzes, homework, and exams for the mentioned course.
- Developed slides and lecture note to enhance the learning experience.
- Collaborated on the development of a comprehensive physiology textbook's practical manual.
- Optimized documentation processes within the faculty.
- Assisted in data collection and analysis within the physiology department.

Research Assistant

Department of Biochemistry &
Nutrition, Nigerian Institute of
Medical Research, Lagos, Nigeria-
2022-2023

- Gained proficiency in PCR, Electrophoresis, DNA extraction, and ELISA assay procedures.
- Engaged in research investigating waste waters canal as a means of tracking the epidemiology of pathogens of public health importance in Lagos state.
- Engaged in a study on the antimicrobial resistance of Streptococcus Pneumonia in children aged 1-11 months.
- Acquired proficiency in microscopy, gram staining, bacterial culture, and anti-microbial testing.

Teaching Assistant

Department of Anatomy and
Physiology, ETSU Ibrahim Chatta
College of Health Science, Patigi-
2021-2022

- Taught Human Physiology, an undergraduate course averaging 50 students per semester, covering the following topics: general physiology, blood, and cardiovascular system, reproductive, and neurophysiology system.
- Developed course material and homework.
- Graded quizzes, homework, and exams.

Research Assistant

Department of Physiology,
Ladoke Akintola University of
Technology, Ogbomosho - 2019-
2021

- Engaged in the research assessing the effect of chronic use of codeine on reproductive function in male Wistar rats.
- Investigated the neurodegenerative effect of chronic Rohypnol use on caspase-3 in male Wistar rat.

Medical Intern

Ladoke Akintola University of
Technology Teaching Hospital,
Osogbo, Nigeria – 2019

- Interned at the cardiology unit.
- Performed ECG procedures on patients with a variety of medical conditions.
- Learned how to perform fetal ECG tests while working in the ICU.
- Attended a workshop that provided hands-on training in cardiopulmonary resuscitation procedures and the Heimlich maneuver.

Part-time Tutor, Biology

St. Thomas Moore, Lautech,
Ogbomosho, Nigeria- 2017-2018

- Courses taught: general biology, general physiology.
- Each course is an undergraduate course with an average of 50 students per semester.
- Developed course material, quizzes, and homework.

Seminar Presentation

The effect of chronic Rohypnol in Brain caspase-3 in male Wistar rats- undergraduate research presented at the department of physiology, Ladoke Akintola University of Technology, Ogbomosho, Oyo State, on April 7, 2021.

The effect of space habitation on male reproductive function seminar presented at the department of physiology, Ladoke Akintola University of Technology, Ogbomosho, Oyo State, on January 23, 2020.

Conferences & Workshops

I participated in a bioinformatics and genomics training on introductory mRNA Vaccine Design and Development organized by the Helix Biogen Institute, held from March 1st to 2nd, 2024.

I participated in a Molecular Docking Mastery organized by the Department of Computational Chemistry and Drug Design Laboratory at Ahmadu Bello University, Zaria, Nigeria, held from November 17th to 19th, 2023.

I attended the International Conference on Health Advances, Innovation, and Research at the Nigerian Institute of Medical Research in Yaba, Lagos State, Nigeria, held from November 7th to 9th, 2022.

I participated in a workshop on the use of the Taqman assay for SNP genotyping, organized by Thermo Fisher Scientific Inc. (real-time PCR, QuantStudio & Flex) at the Nigerian Institute of Medical Research, Yaba, Lagos State, Nigeria, on November 7, 2022.

I completed Health, Safety, and Environment training at ARP Technology Professional Training Institute in Kwara State, Nigeria, from November to December 2021.

I received training in bioinformatics and genomics, focusing on primer design, drug pharmacokinetics, molecular docking, and phylogenetic analysis at the Helix Biogen Institute in Ogbomosho, Oyo State, Nigeria, from September to December 2019.

Publications

Oladipo, O.O., Adedeji, B.O., Adedokun, S.P., Gbadamosi, J.A., & Salaudeen, M. (2022). Regulation of effector and memory CD8 + T cell differentiation: A focus on orphan nuclear receptor NR4A family, transcription factor, and metabolism.” Immunol Res. <https://www.doi.org/10.1007/s12026-022-09353-1>

In-Review

Bernard ADEDEJI, Oladapo OLADIPO, Aderonke ADEJUYIGBE, Ayodeji Folorunsho Ajayi (2024) “TIN2 and its therapeutic potential in cancer cells.” Heliyon. Manuscript Number: HELIYON-D-24-15231

Skills

Bioinformatics

- Proficient with the use of bioinformatics tools for molecular docking, drug- interaction, phylogenetic analysis, primer design and toxicology study.

Electrocardiography

- Gained proficiency in the use of electrocardiography techniques while working in the cardiology unit of the Ladoke Akintola University Teaching Hospital.

Polymerase chain reaction (PCR), DNA extraction, Electrophoresis, and ELISA

- Conducted various DNA extraction procedures at the Nigerian Institute of Medical Research
- Engaged in research using molecular tools, including PCR and electrophoresis, Elisa assaying, Gas chromatography and mass spectrometry (GC-MS), and High-power liquid chromatography (HPLC).
- Conducted enzyme-linked immunoassay (ELISA) for serum and plasma Angiotensin I/II, renin, bradykinin.

Microbiology

- Gained proficiency in the use of microscopy for the identification of microorganisms.
- Participated in national research that assessed S. Pneumonia antimicrobial resistance in children aged 1-11 months.
- Acquire proficiency in gram staining, bacteria culture, and anti-microbial testing.

Computer

- Data analysis
- UI/UX
- Web development

Certifications

Cancer biology specialization (Offered by John Hopkins University)	2023
Bioinformatics (Offered by Peking University)	2023
Google Data Analytics Professional certificate, (Offered by Google)	2023
Science of medicine (Offered by Monash University)	2020

Volunteered Services

Medical volunteer

Nigerian Institute of Medical
Research, Yaba, Lagos State –
November 2022 to July 2023

- Volunteered at a health awareness program on malaria and cardiovascular diseases
- Conducted rapid malaria tests on patients.
- Conducted fasting blood sugar tests and blood pressure measurements.

Medical / health awareness volunteer

Nigerian Youth Service Corps,
Sabo market, Lagos State –
August - November 2022

- Participated in a medical outreach that provided basic health checkups and consultation on the effect of blood sugar on blood pressure and cardiovascular diseases.
- Assisted with the patient's blood pressure measurements.
- Participated in health, environment, and safety outreach.