

Tolulope Oladele

Department of Anatomy,
Faculty of Basic Medical Sciences,
University of Medical Sciences, Ondo, Ondo State, Nigeria.
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Education:

MSc Anatomy, University of Medical Sciences, Ondo, Ondo State, Nigeria;
May, 2022 - April, 2024

Thesis topic: Therapeutic Role of Aframomum Melegueta on LPS-induced Mouse-model of Cognitive Impairment and Neuroinflammation.

Thesis Supervisor: Dr. Kingsley Afoke Iteire

BSc Anatomy, University of Medical Sciences, Ondo, Ondo State, Nigeria; 2015 - 2019

Thesis topic: Comparative Neuroanatomical Study of the Prefrontal Cortex of Human and Seven Mammalian Species.

Thesis Supervisor: Professor Polycarp Nwoha

Research Positions:

Undergraduate Co-supervisor, Department of Anatomy, Faculty of Basic Medical Sciences,
University of Medical Sciences, Ondo, Ondo State, Nigeria;

November 2023 - Present

Projects:

Amerliorative effect of Allium Sativum in Ketamine-induced Mouse-model of Personality Disorder.

Amerliorative effect of Allium Sativum in Ketamine-induced Mouse-model of Anxiety.

Undergraduate Sub Supervisor, Department of Anatomy, Faculty of Basic Medical Sciences,
University of Medical Sciences, Ondo, Ondo State, Nigeria;

Main Supervisor: Dr K. A. Iteire

May 2022 - September 2022

Projects:

Immunotoxicological study of the Neuroprotective role of *Phyllanthus Amarus* on pottassium-dichromate-induced neurotoxicity in the hippocampus of Wistar rats.

Neuroprotective role of *Phyllanthus Amarus* on potassium dichromate-induced neurotoxicity in the prefrontal cortex of male Wistar rats.

Research Intern, Neuroscience and Ageing Research Unit, Institute of Advanced Medical Research and Training, University College Hospital, Ibadan, Nigeria;

Head of Unit: Professor Rufus O. Akinyemi

November 2018 - December 2018

Projects:

Stroke Investigative Research & Educational Networking (SIREN) Project -

Principal Investigator: Professor Mayowa O. Owolabi

Research Intern, Malaria Research Laboratory, Institute of Advanced Medical Research and Training, University College Hospital, Ibadan, Nigeria;

Head of Unit: Professor A. Sowunmi

September 2018 - October 2018

Projects:

Development, evaluation and validation of diagnostic kits for drug resistant malaria
Evaluation of new drug combinations in managing drug resistant malaria in African communities.

Identification and evaluation of active natural products for malaria therapy

Volunteer Research Assistant, Eurekan Biotech;

Researcher: Mr. Oluwaseyi S. Ogunmodede

July 2018 - July 2018

Project:

Public Health Policy, Vigilance and Intensified Awareness Efforts on Symptoms of Hemorrhagic Fevers In Sub-Saharan Africa

Teaching Positions:

Graduate Assistant, Department of Anatomy, Faculty of Basic Medical Sciences, University of Medical Sciences, Ondo, Ondo State, Nigeria;

January 2022 - Present

Tasks: Facilitated anatomy dissection sessions to instruct and guide medical and non-medical students in gaining a comprehensive understanding of human anatomy, aligning practical experience with theoretical knowledge.

Delivered engaging lectures and conducted interactive tutorials to enhance both medical and non-medical students' comprehension of anatomical structures.

Biology and Mathematics Teaching Assistant, Model Comprehensive Secondary School, Nkwelle/Ezunanka, Anambra State, Nigeria;

March 2020 - March 2021

Tasks: Delivered comprehensive biology and mathematics classes with tailored instructional materials and methodologies to cater to diverse learning styles and abilities. Leveraged on technology and modern teaching tools to enhance the learning experience.

Volunteer Academic Tutor, UCCF, University of Medical Sciences, Ondo, Ondo State, Nigeria;

July 2017 - July 2019

Tasks: Delivered tutorials organized by the University religious fellowship to students offering Anatomy courses.

Freelance Design and Writing Experiences:

Graphics Designer, CrowdFundYourFees (Remote), Santa Clara, California, United States;

April 2022 - January 2023

Tasks: Designed the organization's full brand identity guide.

Created visually captivating social media posts and promotional videos that effectively promote the organization's services.

Product Design - (UI/UX) Design Intern, Side Hustle Internship (Remote)

April 2022 - July 2022

Tasks: Led, and collaborated with diverse team of designers, engineers, digital marketers, and content writers on various projects, including mobile & web applications for start-ups.

Contract Visual Designer, Jupit Cryptocurrency Trading Platform

January 2022 - February 2022

Tasks: Enhanced customer engagement by creating compelling and captivating visual designs and illustrations that effectively presented the company's products across various social media.

Graphics & Website Designer, Meritabode Group

August 2021 - January 2022

Tasks: Created various visually striking and compelling graphic designs, branded materials including flyers, banners, billboards, posters, and mockups for merchandise. Managed the organization's website and design. Created campaigns for E-mail marketing and advertisement.

Freelance Anime Features Writer, Comic Book Resources (CBR)

April 2020 - July 2020

Tasks: Developed and pitched anime feature article ideas to editors. Wrote high-quality and audience-captivating articles. Wrote intr

Wrote articles that scored over 600,000 reads, trended across different platforms, and ranked top 1 to top 5 (multiple articles). Implemented SEO strategies with polished formatting in line with publishing standards.

Grants and Scholarships:

IRCN and Chen Institute Joint Course on Neuro-inspired Computation, University of Tokyo

Value: Covers round-trip flight, transport, accommodation and meals, July 15 - 19, 2024.

NeuroDataReHack at Janelia Research Campus in Ashburn, VA, USA

Value: Covers round-trip flight, on-campus housing, and meal costs, July 8 - 12, 2024.

Modeller's Workshop, Building Models with the Brain Dynamics Toolbox Course

Value: Waiver for the Course Enrollment Fee from Dr. Stewart Heitmann, 25 April, 2024.

NOV-DEC ADEWUYI RESEARCH ANIMAL FOUNDATION Grant

Value: Grant funding to support M.Sc Research Project, 23 November, 2023.

IX Latin American School on Computational Neuroscience - LASCON'2024 - IBRO Award

Value: Award covers accommodation, meals, and in-city transportation for training in LASCON 2024, Institute of Mathematics and Statistics, University of Sao Paulo, Brazil, 29 October, 2023.

ISRC-CN3 Autumn School Scholarship

Value: Award covers school fee for the short course on Computational Neuroscience, Neurotechnology, and Neuro-inspired Artificial Intelligence (ISRC-CN3), Intelligent Systems Research Centre, Ulster University, Northern Ireland. 25 October - 31 October, 2023.

2023 LETNeu NSN 2023 Conference Support

Value: Complete coverage of registration fees, accommodation, and stipend for travel support to the 20th National Scientific Conference of the Neuroscience Society of Nigeria, Babcock University, Ogun State, Nigeria, 23 August - 25 August, 2023.

2022 ACURET-UNIMED 2-Days Animal Ethics Training Workshop

Value: Fully paid registration fee to participate in the ACURET-UNIMED 2-Days Animal Ethics Training Workshop, University of Medical Sciences, Ondo, Ondo State, Nigeria, 5 December - 6 December, 2022.

Skills:

Research: fMRI Analysis using FSL (Basic), Brain Dynamic Toolbox (Basic), Spiking Neural Network Simulation (Basic), Molecular Dynamics (Basic), Molecular Docking (Ligand-Protein Interaction), ADMET, Animal Handling and Care, Mice/Rat brain & body dissection, Antelope/Goat/Dog/Wild Boar brain dissection, Rat/Mice Behavioral study tests (with ANY-maze software), Light microscopy & imaging analysis (Imageview & Toupview), Histological tissue processing and staining, Museum pot-making, Biochemical assays, DNA extraction (Basic), Plant extraction.

Statistical & Graphical: GraphPad Prism, IBM SPSS Statistics, Microsoft Power BI, BioRender.

Programming: Python, MATLAB & Octave, R (Basic), HTML, CSS, JavaScript, Dart: Flutter (Basic).

Design: User Experience Design, Graphic & Visual Interface Design, Figma, Adobe Photoshop, Illustrator, AfterEffects Video Editing, Blender (Basic).

Publications:

Peer reviewed:

1. Enemali F. U, Iteire K. A, Uweijigho R, Oladele T. S, Agbon A. N and Emmanuel I. O. Identification of Neuronal cell types and Immunohistochemical Localisation of Dopaminergic Neurons in the Spinal Cord Segment of Grasscutter (*Thryonomys Swinderianus*). Acta Scientific Anatomy 1.6 (2022): 11-15.

Non-peer reviewed:

1. Jacob Adewale Siyanbade, Kingsley Afoke Iteire, Sunday Aderemi Adelokun, Kayode Adedoyin Adebisi, Bankole Japhet Leko, Tolulope Samuel Oladele, Oluwafunmbi Ebenezer Ogunmiluyi, Kolade Pelumi Folorunso, Hezekiah Omotayo Afolabi. Ameliorative Effects of Aqueous Extract of Colocasia esculenta Leaf Against Lipopolysaccharide-Induced Prefrontal cortex damage in Mice, 07 May 2024, PREPRINT (Version 1) available at Research Square [https://doi.org/10.21203/rs.3.rs-4308560/v1]

Conference proceedings:

1. Iteire K. A, Oladele T. S, Elegbeleye D. A. Evaluation of Garlic Complex's Role in Attenuating Cognitive Impairment in a Rat Model of Scopolamine-Induced Amnesia. Nigerian Journal of Neuroscience (2023).

Submitted:

1. T. S. Oladele, K. A. Iteire, A. A. Kayode, J. S. Adewale, O. E. Ogunmiluyi, I. E. Adefisan, & B. J. Leko. Therapeutic role of Aframomum Melegueta on Lipopolysaccharide-induced mouse models of Neuroinflammation and Memory Defects. Scientific Reports, (2024).

Manuscript in writing:

1. T. S. Oladele, K. A. Iteire, K. A. Sulaiman, R. O. Daodu, A. A. Kayode, J. S. Adewale, O. E. Ogunmiluyi, Investigating the Mechanism and Molecular Dynamics of Aframomum Melegueta as a Potential Therapeutic Agent Against Neuroinflammation.

Workshops:

ISRC-Computational Neuroscience, Neurotechnology, and Neuro-inspired Artificial Intelligence (ISRC-CN3), Intelligent Systems Research Centre, Ulster University, Northern Ireland. 25 October - 31 October, 2023

HWK Workshop: Cortical Protheses - Interdisciplinary Research Towards Artificial Vision for the Blind. University of Bremen, Germany; Videoconference. 19 September - 22 September, 2023.

20th National Scientific Conference of the Neuroscience Society of Nigeria (NSN).

Babcock University, Ogun State, Nigeria. 23 August - 25 August, 2023.

Paper presented: Evaluation of Garlic Complex's Role in Attenuating Cognitive Impairment in a Rat Model of Scopolamine-Induced Amnesia.

“Introduction to Data Science using R” Workshop. University of Medical Sciences, Ondo State. 28 March - 20 June, 2023.

ADEPTI Training: Data Analysis and Visualization using SPSS and Microsoft Power BI. University of Medical Sciences, Ondo, Ondo State, Nigeria. 17 April - 21 April, 2023.

ACURET-UNIMED 2-Days Animal Ethics Training Workshop. University of Medical Sciences, Ondo, Ondo State, Nigeria. 5 December - 6 December, 2022.

“Grant Writing in Response to Call for Tenders” Training. Institute of Research for Development (IRD), ACE Partner Project, Marseille France; Videoconference. 2 November - 4 November, 2022.

Professional Affiliations:

Associate Member, American Chemical Society (ACS), (Membership No: 33780377).

2023 - Present

Member, International Parkinson and Movement Disorder Society (MDS).

2023 - Present

Member, International Society for Neurochemistry (ISN), (Record No: 26655).

2023 - Present

Member, Asian-Pacific Society for Neurochemistry (APSN), (Membership No: 23-0013-S).

2022 - Present

Leadership Positions:

Public Relations Officer (PRO), University of Medical Sciences, Alumni Association.

November, 2019 - November, 2023.

Head/Cordinator of Anatomy, Academic Unit, UCCF, University of Medical Sciences, Ondo, Ondo State, Nigeria. July, 2017 - July, 2019.

Referees:

Dr. Omamuyovwi Ijomone

email: omijomone@unimed.edu.ng

Associaate Professor, Department of Anatomy, University of Medical Sciences, Ondo State

Group Leader, Lab for Experimental & Translational Neurobiology

Visiting Assistant Professor, Albert Einstein College of Medicine, NY, USA

Dr. Kingsley Afoke Iteire

email: aiteire@unimed.edu.ng

Senior Lecturer, Department of Anatomy, University of Medical Sciences, Ondo State

Vice-Dean, Faculty of Basic Medical Sciences

Deputy Director, University Research Ethics Committee (UREC)

Professor Anthony Nwaopara

email: nwaopara.anthony@edouniversity.edu.ng

Professor of Anatomy, Edo University, Uzairue, Iyamho, Edo State

Deputy Vice Chancellor, Edo University, Uzairue, Iyamho, Edo State