

Noah Adavize OMEIZA

Assistant Lecturer/Research Assistant/Medical Representative

Current Address: Floor 1, Neuropharmacology Lab, Univ. of Ibadan, Ibadan, Oyo State, Nigeria

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Frontier iD: [Link] | **LinkedIn iD:** [Link]

FAVORITE SCIENTIFIC DOMAINS

- Neuroscience, Pharmacology, & Physiology

RESEARCH INTEREST SUMMARY

- I am currently investigating how altered gut-brain axis affect the brain cells, with a particular emphasis on neuropsychiatric symptoms and behavioral alteration induced by lipopolysaccharide (LPS) and NMDAR inhibitor, how NMDAR hypofunction disrupts synaptic transmission, oxido-proinflammatory signaling pathway, neuronal density and morphometry, and immunohistochemistry of brain sections. I'm also curious about potential therapeutic approaches for neurological disorders like depression, epilepsy, Huntingtons & Alzheimer's disease

EDUCATION

University of Ibadan [Grade: **5.00/7 = 3.04/4**] 2018 – 2021
Master of Science in Pharmacology & Therapeutics Advisor: Prof. Adegbuyi O. Aderibigbe

University of Ilorin [Grade: **3.69/5 = 3.24/4**] 2013 – 2017
Bachelor of Science in Physiology Advisor: Prof. Luqman A. Olayaki

RESEARCH EXPERIENCE (SELECTED)

Research Assistant - Neuropharmacology & Unit, University of Ibadan, Nigeria 2019 – Present

Principal Investigator: Prof. Adegbuyi Aderibigbe [LINK]

- Use of Any-Maze software to generate behavioral parameters & data analysis
- Perform biomarker & morphometric data analyses
- Writing of scientific manuscripts
- Co-advising undergraduate (Pharmacy) and master (Pharmacology and Therapeutic) students

Research Assistant (part-time) - Endocrinology & Reproduction Unit, Univ. of Ilorin, Nigeria 2017 – Present

Principal Investigator: Prof. Luqman A. Olayaki & Dr. Halimat A. Abdulrahim [LINK]

- Involve in laboratory & clinical experimentations
- Perform biomarker, morphometric and data analyses
- Writing of scientific manuscripts

Master Research Student - Neuropharmacology Unit, Univ. of Ibadan, Nig. Sept. 2020 – Feb. 2021

- I conducted research on the use of medicinal plants, and isolates against experimentally-induced schizophrenia & elucidation of signaling pathways by which they abrogate positive, negative & cognitive symptoms in genetically modified murine models: This aids in better understanding the role of gut-brain axis disruption, DA receptor hyperrstimulation, and NMDA receptor inhibitions in psychiatric disorders, as well as the development of potential treatment interventions [LINK]

LABORATORY EXPERIENCE (SELECTED)

This includes the ability to:

- Perform animals (e.g. mice & rats) experimentation (including the designs & techniques)
- Perform tissue culture, Mitochondrial and DNA Extraction, Immunoassay and Immunohistochemistry
- Perform extraction & detection of poisons in biological fluids using spot assays,
- Perform neurobehavioral paradigms tests
- Use ANY-Maze, Image J, - GraphPad Prism & SPSS softwares
- Use Microsoft Packages, Java script & Matlab (Beginner)
- Use Drosophila melanogaster model (Beginner)

TEACHING EXPERIENCE (SELECTED)

University of Medical Sciences, Ondo State, Nigeria (Full-time) Dec. 2022 –

Assistant Lecturer – Department of Pharmacology

- Teaching undergraduate students courses in Pharmacology and Therapeutics
- Conducting Neuropharmacology and toxicology – related research

Climax Tutor Academy, Oyo State, Nigeria (Part-time) Mar. 2019 – Dec. 2021

Tutor

- Teaching Undergraduate (100 level) and A-level students Chemistry, Zoology & Physics

OTHER WORK EXPERIENCE (SELECTED)

Phillips Pharmaceuticals Nigeria Limited (PPNL), Ibadan-Headquarte Jun. 2022 – Dec. 2022

Medical Representative

- Providing information to medical professionals such as physicians and pharmacists on the following molecules: sodium valporate (Valcontin > Seizure & Bipolar Disorder), indapamide (Indicontin > Hypertension), nitroglycerine (Nitrocontin > Angina pectoris), ursodeocholic acid (Udihep > FLD/NASH), Anhydrous theophylline (Unicontin > Asthma & COPD), and
- Coordination and delivery of the following presentations with medical professionals: Clinical Meeting Education (CME) and Round Table Meeting (RTM)
- Generation of local purchase order (LPO) at the institutional and community pharmacy levels

GRANTS, SCHOLARSHIPS/ FELLOWSHIPS & AWARDS (SELECTED)

Grants

- 39th Congress - International Union of Physiological Sciences, China; Travel Grant [[LINK](#)] May 2022

Scholarships

- 19th National scientific conference - Neuroscience Society of Nigeria (NSN) Aug. 2022

Awards

- Most outstanding performance of the Medical Community Development Service Group – National Youth Service Corps – Medical CDS Hadejia, Nigeria Nov. 2018
- Best Student by Research (Graduate Category) – Students Physiological Ass. of Nigeria Aug. 2017
- Parliamentarian of the year (Graduate Category) [[LINK](#)] – SPAN Aug. 2017

PROFESSIONAL ACTIVITIES

Professional Affiliations

- **Member**, Neuroscience Society of Nigeria (NSN) 2022 – Date
- **Member**, Society of Toxicology (UK) 2019 – Date
- **Member**, British Pharmacological Society (UK) 2019 – Date
- **Member**, The Physiology Society (UK) 2018 – Date

Paper Review

- Journal of Pharmacology and Pharmacotherapeutics 2022

VOLUNTER SERVICES / LEADERSHIP (SELECTED)

- **Resource person**, Federal University, Lokoja, College of Health Sciences 2022
- **Member**, Medical Community Development Service (NYSC), Jigawa 2018
- **Coordinator**, Prison Visitation & Humanitarian Service (NCCF), Jigawa 2018
- **Senate Speaker**, Students Physiological Association of Nigeria 2017

SCIENTIFIC PUBLICATIONS (SELECTED); CITATIONS = 30; H-INDEX = 2; I10-INDEX = 1

1. **[Omeiza, N. A.](#)**, Bakre, A., Ben-Azu, B., Sowunmi, A.A., Abdulrahim, H.A., Chimezie, J., Lawal, S.O., Adebayo, O.G., Alagbonsi, A.I., Akinola, O., Abolaji, A.O. & Aderibigbe, A. O. (2023). Mechanisms underpinning *Carpolobia lutea* G. Don ethanol extract's neurorestorative and antipsychotic-like activities in an NMDA receptor antagonist model of schizophrenia. *Journal of Ethnopharmacology*, 115767. <https://doi.org/10.1016/j.jep.2022.115767>. **IF: 5.195**
2. **[Omeiza, N. A.](#)**, Bakre, A. G., Abdulrahim, H. A., Isibor, H., Ezurike, P. U., Sowunmi, A. A., Ben-Azu, B. & Aderibigbe, A. O. (2022). Pretreatment with *Carpolobia lutea* ethanol extract prevents schizophrenia-like behavior in mice models of psychosis. *Journal of Ethnopharmacology*, 115432. <https://doi.org/10.1016/j.jep.2022.115432>. **IF: 5.195**
3. Olayaki, L.A., Alagbonsi, I.A., Abdulrahim, H.A., Adeyemi, W.J., Bakare, M. & **[Omeiza, N. A.](#)** (2018). Melatonin prevents & ameliorates lead-induced gonadotoxicity through antioxidative & hormonal mechanisms. *Toxicology & Industrial Health*. 34(9):596-608. <https://doi.org/10.1177/0748233718773508> . **IF: 2.273**

ABSTRACT PUBLICATION

4. Abdulrahim, H.A., Salman, T.M., Feyitimi, A.A., & **[Omeiza, N. A.](#)** (2019). Orally administered artesunate modulates activity of cell body defense in plasma & brain of female Wistar rats. *IBRO Reports*. 7, 30. <https://doi.org/10.1016/j.ibror.2019.09.062>

SCIENTIFIC CONFERENCE/SYMPOSIUM/SEMINAR/PRESENTATION/WEBINAR (MOST RECENT)

1. **Conference (Poster Presentation):** Pretreatment with *Carpolobia lutea* ethanol extract prevents schizophrenia-like behavior in mice models of psychosis. Presented at NSN2022 – 19th National scientific conference of the Neuroscience Society of Nigeria . University of Ibadan, Nigeria 31 July – 2 August, 2022
2. **Conference (Poster Presentation):** *Carpolobia lutea* reverses drugs-induced schizophrenia-like symptoms in mice via oxido-inflammatory & neurotransmitters' pathways. Presented at IUPS2022 - 39th Congress of the International Union of Physiological Sciences. Beijing, China. [[LINK](#), [LINK2](#)] 7-11 May 2022
3. **Conference (Oral Presentation):** Melatonin salvages lead-induced neuro-cognitive shutdown, anxiety, & depressive-like symptoms via oxido-inflammatory & cholinergic mechanisms. Presented at

Pharmacology 2021 Conference - 90th Anniversary of British Pharmacological Society, United Kingdom. [\[LINK\]](#) 7-9 Sept. 2021

4. **Seminar (Oral Presentation):** Neurological complications of COVID-19: potential use of melatonin as an adjuvant therapy. MSc Seminar Presentation Organized by Department of Pharmacology & Therapeutics, University of Ibadan, Nigeria. [\[LINK\]](#) 15 Sept. 2021

WORKSHOPS/COURSE

1. **Workshop:** Workshop on Stereotactic Surgery with Laboratory Rats at Rivers State University, Port Harcourt. Rivers State 12th – 15th Oct., 2022
2. **Workshop:** Neurobiology of Stress Symposium sponsored by the International Brain Research Organisation (IBRO) at Oyo State University of Ibadan, Ibadan, Nigeria, [\[LINK\]](#) 21st – 25th June, 2022
3. **Workshop:** Neuropathology Teaching Workshop by International Society of Neuropathology /International Brain Research Organization (ISN-IBRO), LASUCOM, Lagos, Nigeria; Status: Participant [\[LINK\]](#) 22nd -24th, March 2019
4. **Course:** Health, Safety & Environment (level 1, 2 &3), [\[LINK\]](#) 2018

LANGUAGES

- English (**Official**), Ebirá (**Native**) and Yoruba: Distinguished levels in Listening, Speaking, Reading, & Writing [\[LINK\]](#)

HOBBIES

- Footballing, travelling, counseling & mentoring students on career paths

REFERENCE

1. **Prof. Adegbuyi O. Aderibigbe, Ph.D;** Neuropharmacology Unit, Univ. of Ibadan, Nigeria; M.Sc. Supervisor; ao.aderibigbe@ui.edu.ng; +2348054327546
2. **Prof. Umukoro Solomon, Ph.D;** Neuropharmacology Unit, Univ. of Ibadan, Nigeria; Principal Investigator; s.umukoro@ui.edu.ng; +2347067816201
3. **Dr. Abdulmusawwir Alli-oluwafuyi, Ph.D;** Senior Lecturer; Clinical Pharmacology Unit, Univ. of Ilorin, Nigeria; Mentor; aoluwafuyi.am@unilorin.edu.ng; +2348060459854