CURRICULUM VITAE

OMALE SIMEON PhD, PharmD, FPCPharm, WASP, NAPA,PSN

[Professor of Clinical Pharmacology and Therapeutics]

Professor of Clinical Pharmacology and Therapeutics, Doctor of Pharmacy (Pharm D), Fellow, Post Graduate College of Pharmacy (FPCPharm), Fellow, West African Society for Pharmacologists (WASP), Societe Quest, Africaine De La Pharmacologie (SOAP), National Association of Pharmacists in Academia (NAPA), Pharmacist Society of Nigeria (PSN), Consultant on Procurement and Supply Chain Management for Global Health and USAID Deliver Project.

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Department of Pharmacology and Toxicology
Faculty of Pharmaceutical Sciences, University of Jos, Jos, Plateau State, Nigeria, P.M.B 2084, 930001
Africa Centre of Excellence in Phytomedicine Research and Development, Road 4 Senior Staff Quarters, University of Jos, Jos, Plateau State, P.M.B 2084, 930001

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POSTDOCTORAL FELLOWSHIP

Africa Research Excellence Fund (AREF), Strathclyde Institute of Pharmacy and Biomedical Sciences, University of Strathclyde, Glasgow, at Professor Gwyn Gould's laboratory https://www.africaresearchexcellencefund.org.uk/dr-simeon-omale

Google Scholar link: https://scholar.google.com/citations?user=QZ8_UnYAAAAJ&hl=en
ORCID number: 0000-0001-7987-5325

External collaborators:

Professor Justin Blau, Department of Biology New York University, USA. https://as.nyu.edu/faculty/justin-blau.html,

Professor Ross L. Cagan, Beatson Institute, Cancer Research Centre Glasgow University Scotland. https://www.beatson.gla.ac.uk/The-Beatson-Institute-Research-Groups/prof-ross-cagan.html

Professor Gwyn W. Gould, Strathclyde Institute of Pharmacy and Biomedical Sciences, University of Strathclyde, Glasgow, Scotland. https://www.strath.ac.uk/staff/gouldgwynprofessor/

AN OVERVIEW STATEMENT

Professionally, I am a clinical pharmacist specializing in pharmacology and therapeutics. My academic career started in 2004 as an assistant lecturer in the Department of Clinical Pharmacy and Pharmacy Practice of the University of Jos. I, however, switched to the Department of Pharmacology and

Toxicology after obtaining a PhD degree in Pharmacology in 2017. I attained the rank of a professor on 1st October 2023. My teaching experience has been the teaching of Pharmacology and Clinical Pharmacy courses to both undergraduate and postgraduate students of the Faculty of Pharmacy, College of Health Sciences (Medicine and Surgery, Nursing, Medical Laboratory Science), and Science Laboratory Technology, Faculty of Natural Sciences, of the University of Jos. Undergraduate student College of Medicine and Health Sciences, Bingham University, Jos campus. I logically have my principal research interest in Diabetes Mellitus with interfacing interests in infectious diseases and cancer. In the last six years, I have switched my research model from mammalian systems (principally mice and rats) to the highly versatile fruit fly, *Drosophila melanogaster*. More recently, I obtained a postdoctoral placement funded by the African Research Excellence Fund (AREF), a subsidiary of the Medical Research Council (MRC), at the Strathclyde Institute of Pharmacy and Biomedical Sciences (SIPBS), University of Strathclyde. At SIBS, I learned a fascinating new research model using a range of mammalian cell lines such as 3T3-L1 adipocytes, rat's hepatoma cells, and CaCO-2 cells, a model of intestinal epithelia. I am a trained consultant in Global Health and the USAID Deliver project on Procurement and Supply Chain Management of Health Commodities. I trained health workers at various levels in selected States of Nigeria on Antiretroviral drugs (ARV), Antituberculosis and Leprosy drugs, Malarial Commodities, and Reproductive Health Commodities on Supply Chain Management and reporting to meet the funder's requirements.

I have traveled to some expert laboratories, such as a three-month academic visitor placement at Justin Blau's laboratory, Department of Biology at New York University, where I was trained on the use of the *Drosophila melanogaster* model for behavioral genetics, neurobiology, and circadian rhythms. A postdoctoral placement at Strathclyde Institute of Pharmacy and Biomedical Sciences, University of Strathclyde, Glasgow, at Professor Gwyn Gould's laboratory, where I was trained in the use of mammalian cell lines for diabetes research; https://www.africaresearchexcellencefund.org.uk/dr-simeon-omale. I was involved in two clinical trials as a Co-investigator during the COVID-19 pandemic: the TETFund COVID-19 Intervention Research Grant to repurpose silymarin for the treatment of SARS-CoV-2 infection and the Nigerian COVID-19 Research Consortium to investigate Rapid Diagnostic Kits for COVID-19. I have other grants as principal investigators and Co-PIs, totaling 9 grants and one patent. The details can be found below.

I served as a laboratory manager of the Africa Centre of Excellence in Phytomedicine Research and Development (ACEPRD), the University of Jos, from 2016 to 2024. ACEPRD is a World Bank-sponsored grant for drug development from Phytomedicine. I have published over sixty articles in peer-reviewed journals in circulation. More details can be found in the attached Curriculum Vitae.

EDUCATION AND QUALIFICATIONS

SCHOOL	QUALIFICATIONS	DATES
PRIMARY EDUCATION		
Methodist Primary School Oiji Ochekwu, Benue State	First School Leaving Certificate	1981
SECONDARY EDUCATION		
Wesley High School Otukpo Benue State	West African Examination Council (WAEC)	1986
TERTIARY EDUCATION		
College of Animal Health and Husbandry N.V.R.I – Vom, Plateau State	Ordinary National Diploma	1988

University of Jos Plateau State, Nigeria	Bachelor of Pharmacy (B. Pharm)	1998
University of Jos Plateau State, Nigeria	M.Sc. Pharmacology	2009
University of Jos Plateau State, Nigeria	Ph.D. Pharmacology	2017
University of Benin Edo State, Nigeria	Doctor of Pharmacy (Pharm D)	2020

POSTDOCTORAL TRAINING

Strathclyde Institute Of Pharmacy and Biochemical Sciences, University of Strathclyde, Glasgow, UK from 20th November 2021 to 15th July, 2023.

PROFESSIONAL QUALIFICATIONS

West African Post Graduate Collage of Pharmacist	Fellow of the Post Graduate Collage of Pharmacist (FPC Pharm.)	2012

SCHOLASTIC HONOURS

1. Award of Excellence, West African Milk Company, Nigeria Ltd (WAMCO) 1987
2. Award of Excellence, West African Milk Company, Nigeria Ltd (WAMCO) 1988
3. National Veterinary Research Institute, Vom Best Graduating Student Award 1988

Grants/Patents

4. Faculty Research Grant (Principal Investigator); Completed 2012
5. Patent Award, Ministry of Science and Technology Federal Republic of Nigeria ID number RP.NG/2018/294 2018
6. NIH-STAMINA Seed Award (Co-Investigator); Completed 2018
7. European and Developing Countries Clinical Trial Partnership (EDTCP) and African Research Excellence Fund (AREF) Preparatory Fellowship (Principal Investigator); Completed 2018
8. Africa Centre of Excellence in Phytomedicine Research and Development, Research Grant (Principal Investigator); Completed 2019
9. TETFund COVID-19 Intervention Research Grant (Co-Investigator) ; Completed 2020

10. Nigerian COVID-19 Research Consortium
RDT_NCRC_0001ST (2020) (Co-Investigator) ; Completed 2020

11. TETFUND-NRF Research grant (TETF/ES/DR&D-CE/NRF2020/SETI/37/
VOL.1) Co-Investigator 2021

12 TETFUND -NRF Research grant (TETF/ES/DR&D-CE/NRF2023/SETI/
SAE/0048 VOL.1(Principal-investigator) 2024

13. TETFUND -NRF Research grant (TETF/ES/DR&D-CE/NRF2023/SETI/
HSW/00884/ VOL.1 (Co-investigator) 2024

WORK EXPERIENCE/ CAREER PROGRESSION

1. Eha Farms Nig. Ltd Atlo, Otukpo Benue State
(Sales/Purchasing Clerk, post Diploma Certificate in Animal Health
and Husbandry) 1988-1989

2. Eha Farms Nig. Ltd Atlo, Otukpo Benue State
(Poultry Supervisor, post Diploma Certificate in Animal Health
and Husbandry) 1989 -1990

3. Ewulo College Otupko Benue State (Agric Teacher, post Diploma
Certificate in Animal Health and Husbandry) 1990-1991

4. Okate Pharmacy Ltd. Tina Junction, Jos (Dispensary, during Pharmacy
training) 1994 -1997

5. Andak Pharmacy Ltd., Kwararafa, Jos
(Industrial Attachment) 1997-1998

6. Plateau State Specialist Hospital – Jos
(Intern Pharmacist post Pharmacy training) 1998-1999

7. National Tuberculosis and Leprosy
Training Centre Zaria (National Youth Service Corpse (NYSC Pharmacist) 1999- 2000

8. Aguoma Pharmacy Nig. Ltd, Jos, Plateau State
(Superintendent Pharmacist) 2001

9. Soma Pharmacy Bokkos, Plateau State
(Superintentent Pharmacist) 2002

10. Veesim Pharmacy Barkin Ladi, Plateau State
(Superintendent Pharmacist) 2002- 2004

11. Dept. of Clinical Pharmacy
University of Jos (Assistant Lecturer, First employment, University of Jos) 2004-2009

12. Dept. of Clinical Pharmacy
University of Jos (Lecturer II) 2009-2012

13. Dept. of Clinical Pharmacy
University of Jos (Lecturer I) 2012-2017

14. Department of Pharmacology and Toxicology (Senior lecturer, Switched to Pharmacology after PhD degree in Pharmacology) 2017-2020

15. Department of Pharmacology and Toxicology (Associate Professor) 2020-2023

16. Department of Pharmacology and Therapeutics, College of Health Sciences, Bingham University, Jos, Visiting Associate Professor 2022-2023

17. Faculty of Health Sciences, Drosophila Laboratory, National Open University of Nigeria, Abuja, Sabbatical position (Professor) 2023-2024

18. Department of Pharmacology and Toxicology, University of Jos (Professor) 2023- present

19. Department of Pharmacology and Therapeutics, College of Health Sciences, Bingham University, Jos, Visiting Professor 2023-present

20. Department of Pharmacology and Toxicology (Professor) 2023- date

21. Faculty of Health Sciences, Drosophila Laboratory, National Open University of Nigeria, Abuja, visiting Professor May 2025-present

ACADEMIC/ADMINISTRATIVE RESPONSIBILITIES

1. Course Coordinator (CLP 302, 502, 504, 507) 2009-2017
Department of Clinical Pharmacy
University of Jos

2. Departmental Examination Officer 2009-2014
Department of Clinical Pharmacy
University of Jos

3. Coordinator: Drug Information Centre 2005-2014
Faculty of Pharmaceutical Sciences
University of Jos

4. Examination Officer 2007- 2014
Science Laboratory Technology
Physiology Pharmacology Option
Faculty of Natural Sciences
University of Jos

5. Faculty Time-Table Officer 2017- 2024

6. Senate Time Committee	2017-2023
7. Member Faculty Administrative Committee	2020-date
8. Member Faculty Postgraduate Committee	2020-date
9. Chairman Faculty Research Committee	2023-date
10. Course Coordinator (PCL 303, 502,503)	2017 -date
11. Laboratory manager ACEPRD, University of Jos	2021- 2024
12. Postgraduate coordinator Clinical Pharmacology	2022- date
13. Postgraduate coordinator Nursing Master's degree	2021- date
14. Head of Department, Department of Pharmaceutics	May 2026 - date

DETAILS OF TEACHING EXPERIENCE AT THE UNIVERSITY LEVEL

a) Undergraduates

i. Teaching Clinical Pharmacy students	2004- date
ii. Teaching Science Laboratory students	2007 -2014
iii. Teaching Pharmacology students	2017- date
iv. Supervision of Pharmacy students' projects	2009-date
v. Supervision of Science laboratory student project	2007-2014
vi. Teaching of Medical Students	2017-date

b) Postgraduates

i. Teaching Clinical Pharmacy postgraduate students (MSc and PhD)	2017- date
ii. Teaching of Pharmacology postgraduate students (MSc and PhD)	2018- date
iii. Teaching of Medical Laboratory Science Students (PhD)	2021-date
iv. Teaching of Nursing Students (MSc)	2022-date
v. Teaching of undergraduate medical students Bingham University, Jos campus	2023-date

PROJECT/THESIS SUPERVISION

Undergraduate Projects

1. B. Pharm. Projects	32 (Completed)
2. B.Sc Science laboratory Projects	43 (Completed)

Postgraduate Projects

1.	MSc. Thesis		7 (Completed) 3 on-going
2.	PhD Thesis	2 completed	4 on-going

RESEARCH ACTIVITIES

1. Phytomedicine Research on Clinical Toxicology
2. Hypertension and Diabetes Research using the *Drosophila melanogaster* and cell line models (Main area)
3. Research on COVID-19
4. Cancer Research Using the Drosophila model
5. Use of *Drosophila melanogaster* and Tissue culture in drug discovery
6. Drug therapy Monitoring
7. Logistics and Supply chain management

REVIEWER

1. Journal of Basic and Applied Zoology, Springer Nature
2. Journal of Pharmacy and Bioresources, University of Jos
3. Journal of Medicinal Plant Research, Academic Journals
4. Journal of Next Bioengineering, Elsevier Journal
5. African Journal of Pharmacy and Pharmacology, Academic Journals
6. Journal of Diabetes and Endocrinology, Academic Journal
7. Journal of Pharmacognosy and Phytotherapy
8. African Journal of Biochemistry Research
9. Journal of Applied Toxicology, Wiley

MEMBERSHIP OF PROFESSIONAL BODIES

1. Pharmaceutical Society of Nigeria (PSN)
2. National Association of Pharmacist in Academia (NAPA)
3. West African Society of Pharmacology (WASP-SOAP)
4. Fellow West African Post Graduate College of Pharmacist (FPC Pharm.)
5. Member African Society for Drosophila Research (ASDR)
6. Member of undergraduate and postgraduate Pharmacology curricula for pharmacy, medical, and nursing programs

CURRICULUM DEVELOPMENT REVIEW

Member of teams (leading some) that undertook development and review of undergraduate and postgraduate Pharmacology curricula for pharmacy, medical, and nursing.

ARTICLES IN LEARNED JOURNALS

1. Gyang, S.S., Dapar, L.M.P., Wannang, N.N., Banwat, S.B., **Omale, S.** & Jimam, N.S. (2007)**.** Health Risks Associated with Smoking: A Survey of Knowledge and Awareness in Non-medically Trained Populations of the Bauchi Road Area of Jos, Nigeria. *Nigerian Journal of Pharmaceutical Research, 6*(1), 35-40.
2. Wannang, N. N., Jimam, N. S., **Omale, S.**, Dapar, L. M. P., Gyany, S.S. & Aguiyi, J. C. (2007). Effects of *Cucumis metuliferus* (Cucurbitaceae) Fruits on Enzymes and Haematological Parameters in Albino Rats. *African Journal of Biotechnology, 6*(22), 2515-2518.
3. Wannang, N. N., Gyang, S. S., **Omale, S.,** Dapar, L. M. P., Jimam, N. S. & Anakwe, C. (2008).The Effects of *Cucumis metuliferus* E Meye (Cucurbitaceae) on Rat Gastric Functions and Mucosa Integrity. *Nigerian Journal of Natural Product and Medicine, 12*, 37-39.
4. Wannang, N. N., **Omale, S.,** Gyang, S. S., Jimam, N. S., Dapar, L.M.P., Elekwechi, I. & Lohya, A.N. (2009). Evaluation of the Antiviral Properties of the Ethanolic Extract of the Fruit Pulp of *Cucumis metuliferus* E. Meye (Curcubitaceae). *Nigerian Journal of Scientific Research, 8*,55-59.
5. **Omale, S.,** Wannang, N. N. & Aguiyi, J. C. (2010). Screening for Antisnake Venom Activities of the Ethanolic Extract of the Stembark of *Parinari curatellifolia* (Rosaceae) in Mice After Challenge with Raw Venom of *Naja nigricolis*. *African Journal of Bioscience, 3*(1), 1-5.
6. **Omale, S.,** Aguiyi, J.C., Wannang, N.N. & Ndukwe, H.C. (2010). Effects of Ethanolic Extract of the Stembark of *Parinari curatellifolia* (Enenchila) on Blood Chemistry and Enzyme Levels in Albino Rats Pretreated with Snake Venom. *Nigerian Journal of Botany, 23*(2), 329-334.
7. Jimam, N.S., Wannang N.N., **Omale S.** & Gotom, B. (2010). Evaluation of the Hypoglycemic Activity of *Cucumis metuliferus* (Cucurbitaceae) Fruit Pulp Extract in Normoglycemic and Alloxan-induced Hyperglycemic Rats. *Journal of Young Pharmacist, 2* (4), 384-387.
8. Jimam, N.S., Wannang, N.N., Anuka, A., **Omale, S.,** Falang, K.D. & Adolong, A.A. (2011). Histopathologic Effects of *C. metulliferus* E Meye (Cucurbitaceae) Fruits in Albino Rats. *International Journal of Pharmaceutical Sciences and Research, 2*(8), 2190-2194.
9. **Omale, S.,** Wuyep, N.N., Auta, A. & Wannang, N.N. (2011). Anti-Ulcer Properties of Alkaloids Isolated from the Fruit Pulp of *Cucumis metuliferus* (Cucurbitaceae). *International Journal of Pharmaceutical Sciences and Research, 2*(10), 2586-2588.
10. **Omale, S.,** Auta, A., Banwat, S.B., Amagon, K.I. & Thomas, Y.P. (2011). Effects of the Ethanolic Extract of *Parinari curatellifolia* on Cat Blood Pressure and Rabbit Jejunum Preparations. *International Journal of Pharmaceutical Frontier Research, 1(*2),34-44.
11. Ndukwe, H. C., **Omale, S.** & Aguiyi, J. C. (2011). Analysis of Some Biochemical and Haematological Parameters for *Mucuna pruriens* (DC) Seed Powder in Male Rats. *Pakistan Journal of Pharmaceutical Sciences, 24*(4), 523-526.
12. Ndukwe, H.C., **Omale, S.** & Aguiyi, J.C. (2011). Evaluation of *Mucuna pruriens* (DC) Seed as A Potential Biopesticide Against *Callosobruchus maculatus* (Fab.) in Stored *Vigna unguiculata* (Walp) Seeds. *Nigerian Journal of Scientific Research, 9 & 10*, 125-135.

13. Ndukwe, H.C., **Omale, S.** & Opanuga, O.O. (2011). Reducing Queues in a Nigerian Hospital Pharmacy. *African Journal of Pharmacy and Pharmacology, 5(*8), 1020-1026.

14. Auta, A., Omale, S., Shalkur, D., & Abiodun, A. H. (2011). Unused medicines in Nigerian households: Types and disposal practices. *Journal of Pharmacology and Pharmacotherapeutics*. https://doi.org/10.4103/0976-500X.83290.

15. **Omale, S.** Asa, A., Amagon, K.I. & Mariose, V. I. (2012). Anti-Snake Venom Activity of Flavonoids From the Root Bark Extract of *Parinari curatellifolia* in Mice. *International Journal of Pharmaceutical Research, 4*(2), 55-58.

16. Asa, A., **Omale**, **S**., Anukam, N.C. & Sariem, C.N. (2012). Patent Medicine Vendors' Clients: Medicine Use Behaviour. *TAF Preventive Medicine Bulletin,11*(6), 681-686.

17. Asa, A., **Omale, S**. Temitope, J. F., Shalkur, D. & Banwat, S.B. (2012). Medicine Vendors: Self-Medication Practices and Medicine Knowledge. *North American Journal of Medical Sciences,4*(1), 24-28.

18. Seifa, J.T., Wannang, N.N., Sariem, C.N., Asa, A. & **Omale, S.** (2012). Pharmacological Intervention of Pre-Eclampsia and Eclampsia: A case Study of a Tertiary Health Institution in Jos, Nigeria. *Drug Invention Today, 4*(4), 360-362.

19. **Omale, S.,** Aguiyi, J.C., Wannang, N.N., Ogbole, E., Amagon, K.I., Banwat, S.B & Auta, A. (2012).Effects of Ethanolic Extract of *Parinari curatellifolia* on Blood Clotting Factors in Rats Pretreated with Venom of *Naja Nigricolis*. *Drug Invention Today, 4(*4), 363-364.

20. Auta, A., Shalkur, D., **Omale, S**. & Abiodun, A.H. (2012). Medicine Knowledge and Self Medication Practices Among Students. *African Journal of Pharmaceutical Research and Development, 4*(1), 6-11.

21. Sariem, C.N., Gyang, S.S., Tayo, F., Asa, A., **Omale, S.** & Ndukwe, H.C. (2013). Factors Influencing Tuberculosis Medication Adherence in a Tertiary Health Institution in Nigeria. *West African Journal of Pharmacy, 24(*2), 66-75.

22. Amagon, K.I, Wannang, N.N, **Omale, S** & Jimam, N.S (2013). Prelimnary Studies on *Cocos nucifera* Water for Contraceptive and Anti-arbortive Properties. *Scholarly Journal of Medicine, 3(*2), 19-22.

23. **Omale, S**, Gyang, S.S, Auta, A, Sariem, C.N, Banwat, S.B & Adeniyi, M.A (2015). Assessment of the Therapeutic Success of Antiretroviral Combinations Used in a HIV Treatment Center, Jos, Nigeria. *World Journal of Pharmaceutical Sciences, 3*(6), 1065-1071.

24. Onah, C.C., Asuzu, I.U., Anaga, A.O., Chuks, L.N., Odeh, J.O. & **Omale, S** (2016). Invitro Screening of the Methanolic Root Extract of *Securidaca welwitsschii oliv* for Anthelmintic Activity. *World Journal of Pharmaceutical Research, 5*(8), 263-269.

25. **Omale, S,** Wannang, N.N., Banwat, S.B., Dangiwa, D.A., Ohunene, F.S., Anukam, N.C. & Onah, C.C (2016). Effects of the Cold Water Extract of the Seeds of *Datura metel* (Solanaceae) on Apomorphine and Phenobarbitone Induced Central Nervous System Activities in Day Old Chicks. *World Journal of Pharmaceutical Research, 5*(11), 319-328.

26. Bukar, B.B., Uguru, M.O., Daniel, J., Wannang, N.N., Dayom, D.W., **Omale, S** & Okwuasaba, F.K. (2016). Penile Erectile Properties and Elemental Analysis of the Methanolic Seed Extract of *Garcinia kola* (Heckel) in Some Experimental Animals. *IOSR Journal of Pharmac,y, 6(*2), 63-71.

27. Anyanwu, A.A., Jimam, N.S., **Omale, S.** & Wannang, N.N. (2017). Antiviral Activities of *Cucumis metuliferus* Fruits Alkaloids on Infectious Bursal Disease Virus (IBDV). *The Journal of PhytoPharmacology, 6*(2), 98-101.

28. **Omale, S.,** Anukam, N.C., Chris-Otubor, G.O., Lomak, A.P., Mohammed, S.G., Okunlola, C.R., Daskut, E. & Damun, P.A. (2019). Assessment of Immunization Coverage in Jos North Local Government Area of Plateau State, Nigeria. *World Journal of Pharmaceutical Research, 8*(8), 11-25.

29. Iorjiim, W. M., **Omale, S.,** Etuh, M.A., Bagu, G.D. & Gyang, S.S. (2020). EFVb-HAART Increases Mortality, Locomotor Deficits and Reduces Reproductive Capacity in *Drosophila melanogaster*. *Journal of Advances in Biology and Biotechnology, 23*(1), 26-38.

30. Denou, A., Ahmed, A., Dafam, G.D., Ochala, S.O., **Omale S.**, Inngjerdingen, K.T., Sanogo, R., Diallo, D., Paulsen, B.S. & Aguiyi, J.C. (2020). Safety Evaluation of Polysaccharides Isolated from of *Argemone Mexicana* L (Papaveraceae) in *Drosophila melanogaster*. *Journal of Applied Pharmaceutical Science, 10* (2), 44-48.

31. Bagu, G.D., **Omale, S.,** Iorjiim, W.M., Etu, M.A., Ochala, S.O., Gyang, S.S. & Aguiyi, J.C. (2020). Invivo Antioxidant and Toxicity Properties of Methanol Root Extract of *Xemenia Americana*,L (Olaccaceae) in *Drosophila melanogaster*. *International Journal of Engineering Applied Sciences and Technology, 4*(12), 59-66.

32. Maduagwuna, C.A., **Omale, S.,** Etuh, M.A. & Gyang, S.S. (2020). Antioxidant Activity of n- Hexane Extract of *Caryota no* Seed Using *Drosophila melanogaster* Model. *Journal of Advances in Biology and Biotechnology, 23*(4), 39-47.

33. Iorjiim, W.M, **Omale, S,** Bagu, G.D, Gyang, S.S and Alemika, T.E (2020). *Moringa Oleifera* Leaf Extract Promotes Antioxidant, Survival, Fecundity and Locomotor Activities I *Drosophila melanogaster*. *European Journal of Medicinal Plants, 31*(15), 30-42.

34. Iorjiim, W.M., **Omale, S.,** Bagu, G.D., Gyang, S.S., Alemika, T.E. & Etuh, M.A. (2020). Highly Active Antiretroviral Therapy Depletes Some Antioxidant Parameters and Increases Free Radical Generation in *Drosophila melanogaster*. *Journal of Advances in Medical and Pharmaceutical Sciences, 22*(2), 41-45.

35. Maduagwuna, C.A, **Omale, S** & Gyang, S.S (2020). Anti-biofilm Activity of Extracts of *Caryota no* in *Drosophila melanogaster* infected with *Pseudomonas aeruginosa*. *European Journal of Medicinal Plants, 31*(10), 73-85. DOI: 10.9734/ejmp/2020/v31i1030285

36. Iorjiim, W.M., **Omale, S.,** Bagu, G.D., Gyang, S.S. & Alemika, T.E. (2020). Reproductive and Oxidative Stress Toxicity of Dolutegravir-Based Combination Antiretroviral Therapy in *Drosophila melanogaster, Journal of Advances in Medical and Pharmaceutical Sciences,22*(6), 26-40.

37. **Omale, S.,** Aguiyi, J.C., Bukar, B.B., Ede, S.O., Amagon, K.I., Amagon, L., Usman, O., Ugokwe, C.V. & Osibanjo, D.O. (2020). Fruiting Body of *Pleurotus ostreatus* Reduces Serum Glucose and Modifies Oxidative Stress in Type 2 Diabetic *Drosophila melanogaster* (Fruit-Fly). *Advances in Pharmacology and Pharmacy, 8(*3), 41-50.

38. Maduagwuna, C.A., **Omale, S.,** Etuh, M. & Gyang, S.S. (2020). Toxicity Assay of Methanolic Extract of *Caryota no* Seed Using *Drosophila melanogaster* Model. *Asian Journal of Biochemistry, Genetics and Molecular Biology, 4*(3), 43-45.

39. Ubani, A., Agwom, F., Morenikeji., O.R., Shehu, N.Y., Umera, E.A., Umar, U., **Omale, S.,** Aguiyi, J.C., Nnadi, N.E. & Luka, P.D. (2020). Molecular Docking Analysis of Selected Phytochemicals on Two SARS-CoV-2 Targets. *F1000Research, 9,* 1157.

40. Bagu., G.D., **Omale, S.,** Iorjiim, W.M., Uguru, M.O. & Gyand, S.S. (2020). Determination of $LD_{50,}$ Fecundity and Locomotor Effects of Methanol Root Extract of *Ximenia americana* Linn in *Drosophila melanogaster*. *Asian Journal of Biochemistry, Genetics and Molecular Biology, 5*(2),1-9.

41. Maduagwuna, C.A., **Omale, S.,** Etuh, M.A. & Gyang, S.S. (2020). Effect of Methanolic Extract of *Caryota no* Seed on Geotatic Behaviour and Fecundity in *Drosophila melanogaster. Journal of Complementary and Alternative Medical Research, 10*(4), 38-48.

42. Johnson, T.O, Abolaji, A.O**., Omale, S**., Longdet, I.Y., Kutshik, R.J., Oyetayo, B.O., Adegboyega, A.E., Sagay, A. (2021) Benzo[a]pyrene and Benzo[a]pyrene-7,8-dihydrodiol-9,10-epoxide induced locomotor and reproductive senescence and altered biochemical parameters of oxidative damage in Canton-S *Drosophila melanogaster*. Toxicology Report. 10;8:571-580. doi: 10.1016/j.toxrep.2021.03.001. PMID: 33777703; PMCID: PMC7985712.

43. Amagon, L., **Omale, S.,** Amagon, K.I. & Abah, J. (2021). Anticonvulsant Activity of *Elaesis* guineensis (Jacq) Oil in Pentylenetetrazole-Induced Seizure in *Drosophila melanogaster*. *Asian Journal of Biology, 13(*1), 22-29.

44. **Omale, S.,** Aguiyi, J.C., Adekunle, O.G., Johnson, T.O., Ochala, S.O., Etuh, M.A & Ezeh, M.A. (2021). Evaluation of the Antidiabetic Effects of the Stembark Extract of *Parinari curatellifolia* (Planck. ex Benth.) in *Drosophila melanogaster*. *Journal of Pharmacology and Toxicology 16*(1), 9-21.

45. Ismaila, E.L., Ismaila, B.O., **Omale, S.,** Umar, D.M., Shwe, D.D. & Shehu, N.Y. (2021). A Synopsis of Human Pandemics. *New Nigerian Journal of Clinical Research, 10,* 7-13.

46. Iorjiim, W.M, **Omale, S.,** Etuh, M.A., Ubani, A., Alemika, E.T., Gyang, S.S. (2022) Senescence and oxidative stress toxicities induced by lamivudine and tenofovir in Drosophila melanogaster. *Annales Pharmaceutiques Francaises*, 80(6):864-875. doi: 10.1016/j.pharma.2022.02.006. Epub 2022 Feb 26. PMID: 35231396.

47. **Omale, S.,** Amagon, K.I., Johnson, T.O., Bremner, S.K. & Gould, G.W. (2023). A Systemic Analysis of Anti-diabetic Medicinal Plants From Cell to Clinical Trials. *PeerJ*, 11:e14639 DOI 10.7717/peej.14639.

48. Iorjiim, W.M., **Omale, S.**, Bagu, G.D., Alemika, E.T. & Gyang, S.S. (2023). Dolutegravir Increased Mortality Rate, Climbing Deficits and Altered Biomarkers of Oxidative Injury in Harwich *Drosophila melanogaster*. *Journal of Pharmacology and Toxicology, 18,* 63-75.

49. Atchrimisi, S.K., Tougoma, A., **Omale, S.,** Batawila, K., Egesie, U.G. & Ode, O.S. (2023). Antihyperglycemic Effects of Methanol Extract and Fractions of *Oxytenanthera abyssinica*

leaf (A. Rich) Munro (Poaceae) in Alloxan-Induced Diabetic Albino Rats. *Journal of Drug Delivery and Therapeutics, 13*(2), 1-10

50. Iorjiim, W. M., **Omale, S.,** Ede, S., Ugokwe, C. V., & Alemika, T. E. (2023). Involvement of functional senescence in efavirenz-induced toxicity in fruit-fly. *Toxicology Research 1*–10.

51. Ibrahim, K. A**., Omale, S.,** Dayom, D. W., & Onyebuchi, O. B. (2023). *Assessment of knowledge and practice of zinc sulfate supplementation in the treatment of diarrhoea among under-five children in Primary Health Care centres in Keffi , Nigeria*. *20*(3), 107–116.

52. Nnadi, N. E., Luka, P.D., **Omale, S.,** Shehu, N.Y., & Aguiyi, J.C. (2023). Silymarin Inhibits In Vitro SARS-CoV-2 Infection In Vero E6 Cells. bioRxiv 2023.04.07.535766; doi: https://doi.org/10.1101/2023.04.07.535766.

53. Omonkhua, A.A., Faneye, A., Akinwande, K.S., Evaezi, O., Shehu, N.Y,, Onayade, A., Ochu, C.L., Popoola, M., Emmanuel, N., Ojo, T., Ohonsi, C., Abubakar, A., Odeh, E., Akinduti, P., Folarin, O., Bimba, J.S., Igumbor, E., Elimian, K., Edem, V.F., Pam, D. L., Olusola, T., Ntoimo, L., Olugbile, M., Opayele, A.V., Kida, I., David, S., Onyeaghala, A., Igbarumah, I., Maduka, O., Mahmoud, M.A., El-Fulatty, A.R., Olaleye, D.O., **Omale S.,** Osaigbovo, I.I., Obaseki, D.E., Tolulupe, A., Happi, C., Jibrin, Y.B., Okonofua, F., Eliya, T., Simji, G., Abi, I.J., Ameh, E., Maigari, I.M., Alhaji, S., Adetifa, I., Salako, B., Bogoro, S., Ihekweazu, C., Odaibo, G.N. (2024). COVID-19 RDT Validation in Nigeria (CORVAN) study group. Performance evaluation of SARS-CoV-2 rapid diagnostic tests in Nigeria: A cross-sectional study. PLOS Glob Public Health. 15;4(7):e0003371. doi: 10.1371/journal.pgph.0003371. PMID: 39008485; PMCID: PMC11249252.

54. **Omale, S.,** Aguiyi, J.C., Goul, G. W., Madaki, A. J.K., Alemika, T.E. Johnson, T. O Luka, P. D., Nyam, C. J., Nnadi, N. E., Agwom, F. M., Ohaeri, U., Ochala, O., Clement, Patricia T., and Parkinson, J. A. (2025a). Quercetin from *parinari curatellifolia* planch.ex benth differentially regulates Drosophila insulin-like peptides II and V in hyperglycaemic flies. https://doi.org/10.1016/j.prenap.2025.100231.

55. **Omale, S**., Konzing, G. K., & Makwin, L. L. (2025b). Effects of Origanum vulgare L. aqueous extract on circulating glucose levels in Drosophila melanogaster model of Type 2 diabetes. *Journal of Pharmacy & Bioresources*, *22*(3), 157–165. https://doi.org/10.4314/jpb.v22i3.2.

56. **Omale, S**., Aguiyi, J.C., Ede, S., Ryalls, L., Ye, R., Basbaydar, B., Gould, G.W., Bremner-Hart, S.K. (2025c). Assessment of distinct effects of *Parinari curatellifolia* Planch.ex Benth Ethanolic leaf extract on glucose transport in different cell types. PeerJ. 2025 Nov 10;13:e20269. doi: 10.7717/peerj.20269. PMID: 41244198; PMCID: PMC12614100.

57. Makwin, L. L., Iorjiim, W. M., Amagon, K., & Omale, S. (2025). Seed extract of Annona muricata reverses the reproductive toxicity and oxidative stress induced by cyclophosphamide in Drosophila melanogaster. *Toxicology Research*, *14*(6). https://doi.org/10.1093/toxres/tfaf163

58. Okunlola, R.C., Omale, S., Dapar, M.P. (2026). Level of involvement of community pharmacists in adult vaccination services in Nigeria. *Journal of Pharmacy & Bioresources* 23(2), 186-195. https://dx.doi.org/10.4314/jpb.v23i2.8.

59. Okunlola, R.C., Omale, S., Dapar, M.P. (2026). Structures and processes for adult vaccination services in community pharmacies in Nigeria. *West African Journal of Pharmacy* 37 (1), 125 – 134.

60. Iorjiim, W. M., Makwin, L. L., Ipav, S. S., Omale, S. (2026). Kaempferol from Moringa oleifera L. Increases longevity and ameliorates efavirenz-induced functional senescence in Drosophila melanogaster. *Toxicology Reports, 17,* 102301. https://doi.org/10.1016/j.toxrep.2026.102301

CHAPTERS IN BOOKS

Adegboyega, A.E, Johnson, T.O, **Omale**, S (2021). Computational Modeling of The Pharmacological actions of Some Antiviral Agents Against SARS-CoV-2: Computational perspectives**;** Academic Press, Elsevier, Data Science for COVID-19; Vol. I, 467-482.

PAPERS AND ABSTRACTS PRESENTED AT CONFERENCES/SEMINARS

1. Effects of Fake Drugs in Nigeria Health Systems. Presented at Workshop on Reproductive Health PHC Barkin Ladi, 2003

2. Anti-Snake Venom Properties of the Crude Ethanolic Extract of the Stembark of *Parinari curatellifolia* in Mice. Presented at West African Society of Pharmacology Conference Jos, 2009

3. A Retrospective Assessment of the Therapeutic Success of Different Anti Retroviral Combinations Used in HIV/AIDS Patients in Faith Alive Foundation Hospital, Jos, Nigeria. Faculty of Pharmaceutical Sciences University of Jos. 2011

4. A comparative Assessment of the Anti-snake Venom Properties of the Various Solvent Fractions of *Parinari curatellifolia* using Animal models. Presented at The Workshop organized by the Africa Centre of Excellence in Phytomedicine Research and Development. Jos Plateau State , 2016

5. The Small Insect, *Drosophila melanogaster* (Fruit-fly) as a Versatile and Affordable Model in Biomedical Research. Presented at the West Africa Society of Pharmacology Conference in the University of Port Harcourt, Nigeria, 2019

6. Quercetin from *Parinari curatellifolia* Differentially regulates the Drosophila insulin-like peptides II and IV in hyperglycemic flies. Presented at the 2023 West African Society for Pharmacologists annual conference, Kano, Nigeria.

7. Parinari curatellifolia (Planch. ex Benth) Elongates Drosophila melanogaster Lifespan and Mitigates Efavirenz (EFV) Induced Toxicity: In vivo and In silico Studies Presented at the British Pharmacological Society, Belfast, Northern Ireland, UK, 2025.

8. Anti-aging and Efavirenz Toxicity Ameliorating Effects of *Parinari curatellifolia* in Drosophila *melanogaster* Presented at the West African Society for Pharmacology, Abidjan, Cote d'Ivoire, 2026.

WORKSHOPS AND CONFERENCES ATTENDED/FACILITATED

1. West African Society of Pharmacology (WASP). Jos, Nigeria 1995
2. Computer Programming and Data Analysis 2000
3. Mandatory Continuing Professional Development (Modules; 1,2,3,4,5,5,7,8,9,10,11,12) 2003-2017
4. Workshop on Reproductive Health at Primary Health Center. Barkin Ladi, Nigeria 2003
5. National Association of Community Practice Pharmacists. Jos, Nigeria 2003
6. West African Society of Pharmacology. Kano, Nigeria 2004
7. International Network on Rational Use of Drugs (INRUD), Jos 2005
8. West African Society of Pharmacology (WASP). Enugu, Nigeria 2006
9. West African Society of Pharmacology (WASP). Jos, Nigeria 2009
10. Workshop on Proposal Writing for Grants. Jos, Nigeria 2009
11. Workshop on Scientific Writings. Jos, Nigeria 2011
12. Workshop on Supply Chain Management System. Abuja, Nigeria 2012
13. Workshop on Supply Chain Management System. Abuja, Nigeria 2013
14. Workshop on Quantification and Procurement. Enugu, Nigeria 2014
15. Workshop on Training of Trainers (TOT) on Supply Chain Management. Abuja, Nigeria 2015
16. Workshop as a Trainer on Supply Chain Management. Abuja, Nigeria 2015
17. Excel worksheet. Jos, Nigeria 2015
18. Computer Training on Research Methodology. Jos, Nigeria 2015
19. Bioinformatics. Jos, Nigeria 2015
20. Workshop on Global trend in Phytomedicine Research and Development. Jos, Nigeria 2016
21. Workshop on Drosophila in Biomedical Research: An Effective and Affordable Model. Nairobi, Kenya 2016
22. Short Course on *Drosophila melanogaster* a Versatile Model in Experimental Medicine. Jos, Nigeria 2016
23. Biochemical and Molecular model in *Drosophila melanogaster* University of Ibadan, Nigeria 2017
24. Aqueous Leaf Extract of *Datura metel* on the sleep pattern of *Drosophila melanogaster* New York University, USA 2018

25. *Drosophila melanogaster* (Fruit-fly), a Versatile and Affordable Model in Biomedical Research, ABU Zaria 2019

26. Usage of *Drosophila melanogaster* in Biomedical Research, Universite' d'Abomey-Calvari, Cotonou, Republic of Benin 2019

27. *Drosophila melanogaster* for Biomedical Research, Institute National de Recherche en Sante Publique, Bamako, Mali 2019

28. West African Society of Pharmacologists conference Port Harcourt, Nigeria 2019

29. Training of Trainers in Malaria Commodity Logistic System 2021

30. Effects of the Leaf Extract of *Parinari curatellifolia* on Insulin 3T3-L1 Adipocyte Cell, Strathclyde Institute of Pharmacy and Biomedical Sciences, Glasgow, UK 2022

31. Antidiabetic Effects of *Parinari curatellifolia* Extract (PCE) in Insulin-Resistant 3T3-L1 Adipocytes, National Conference of Pharmaceutical Society of Nigeria (PSN) 2022

32. *Parinari curatellifolia* Derived Quercetin Regulates Drosophila Insulin-like Peptides and hyperglycaemia in *Drosophila melanogaster* WASP-SOAP Conference 2023

33. NIH Funding Opportunities and Grant Writing Workshop 2026

34. Fly-Neurocan Workshop, Frontiers in Drosophila Research for Neurodegenerative Disease and Cancer 2026

35. Effective Altruism Graduate Students' Grant Writing Workshop (Facilitator) 2026

THESES/DISSERTATIONS

1. **Omale,** Simeon (1997). The Effect of Adsorbent Type and Concentration on *Ricinus communis* (Variety Minor) Castor Oil Seed as Contraceptive Pills. B. Pharm. Dissertation, University of Jos.

2. **Omale,** Simeon (2008). Evaluation of the Anti-Snake Venom Activities and Toxicological Studies of *Parinari curatellifolia* Family Rosaceae. M.Sc. Pharmacology, University of Jos.

3. **Omale,** Simeon (2012). A Retrospective Assessment of the Therapeutic Success of Different Anti-Retroviral Combinations Used in HIV/AIDS Patients in Faith Alive Foundation Hospital, Jos, Nigeria. Fellow of the West African Post Graduate College of Pharmacists.

4. **Omale,** Simeon (2017). Anti-Snake Venom Activities of *Parinari curatellifolia* (Linn) Root Bark and Leaf and Bioassay-Guided Characterization of the Active Principles.

5. **Omale,** Simeon (2020). Drug Utilization and Treatment Outcomes Among Type II Diabetic Patients Attending Plateau Specialist Hospital, Jos, Nigeria

COMMUNITY AND OTHER SERVICES

1. National Youth Service Corps	1999-2000
2. Chairman, Audit Committee, Pharmaceutical Association of Nigerian Students	2007
3. Public Relations Officer, Rwang Jeah Community	2007-2015
4. Chairman Welfare Committee, Rwang Jeah Community	2012-2015
5. Chairman Welfare Committee, Department of Clinical Pharmacy University of Jos	2012-date
6. Secretary, Nigeria Association of Pharmacists in Academia, Jos Branch	2015-2021
7. Church elder	2015- date