

# CURRICULUM VITAE

**Ebenezer O. Farombi, BSc MSc PhD FRSC ATS FAS FAAS**  
**Professor of Biochemistry and Molecular Toxicology**

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1. **Name:** Ebenezer Olatunde FAROMBI,
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Phone: 234-8023470333
3. **University and Professional Education, with dates:**
  - (i) Undergraduate Education:  
University of Ibadan, Ibadan 1984-1987
  - (ii) Postgraduate Education  
University of Ibadan, Ibadan 1988-1989  
University of Ibadan, Ibadan 1989-1995
4. **Qualifications:**

**Academic**  
BSc Biochemistry University of Ibadan July 1987  
MSc Biochemistry University of Ibadan December 1989  
PhD Biochemistry University of Ibadan September 1995

**Professional**

  - National Library of Medicine Training Certificate in Web Resources for Environmental Health and Biomedical Research, Oak Ridge Institute for Science and Education, Oak Ridge, Tennessee, USA.
  - Fellow Royal Society of Chemistry (FRSC), London, UK
  - Fellow Academy of Toxicological Sciences (ATS), Reston, USA
  - Fellow Nigerian Academy of Science (FAS), Nigeria
  - Fellow African Academy of Sciences (FAAS), Nairobi, Kenya
  - Fellow Nigerian Society of Biochemistry and Molecular Biology (NSBMB), Nigeria
  - Fellow Academy of Medicine Specialties of Nigeria (FAMedS)
5. **Post Doctoral Training**
  1. School of Biological Sciences University of Liverpool, UK. (1995-1996)
  2. Danish Institute of Food Safety and Nutrition, Copenhagen, Denmark (2001-2002)
  3. Institute of Environmental and Occupational Medicine, University of Aarhus, Denmark (2001-2002)
6. **Academic and Administrative Appointments:**
  - Dean Faculty of Basic Medical Sciences, College of Medicine, University of Ibadan (2010-31 July 2014)
  - Professor of Biochemistry and Molecular Toxicology, University of Ibadan, 1<sup>st</sup> October 2006
  - Director, Drug Metabolism & Toxicology Research Laboratories, Department of Biochemistry, University of Ibadan, Nigeria (1<sup>st</sup> October, 2006-date)
  - Head of Department of Biochemistry (Feb 1<sup>st</sup> 2008-July 31 2010; 1<sup>st</sup> August 2016- July 31 2020)

## 7. Scholarships, Prizes, Honors and Distinctions

1. Departmental Prize as the Best Graduating Student in the Finals of 1987 B.Sc. Degree Examinations in Biochemistry.
2. U.T.C (Nig) Annual Prize for the Overall Best Graduating Student in Biochemistry, 1987.
3. Federal Government of Nigeria Scholarship Award for Postgraduate Studies, 1988/1989.
4. Best Performing Academic Masters Student (M.Sc), 1989.
5. University of Ibadan Postgraduate Scholarship Award (Teaching Assistantship), 1989.
6. Cadbury (Nig) Plc. Postgraduate Research Fellow-1991
7. Wellcome (Nig) Fund Research Fellow-1992
6. Member -International Reviewers Panel (IRP) Medical Science Monitor (USA)
7. Lady Bank-Anthony Cancer Research Fellow, 2004.
8. Cited and Listed among Top 10 Productive Researchers in University of Ibadan who contributed research articles within a 10-year frame (1995-June 2005)- SESRTCIC, <http://sesrtcic.org/statistics>
9. Vice President Society for Free Radical Research (SFRR) - Africa- 2008
10. Judge for the 6<sup>th</sup> and 7<sup>th</sup> International Conferences on Recent Advances in Environmental Health Research, Jackson State University, Mississippi, USA, September, 2009 and 2010.
11. Editor-in-Chief, Ibadan College of Medicine Magazine (IBACOM) (2006- 2010)
12. Foundation Editor-in-Chief, Toxicology Digest- Official Journal of the West African Society of Toxicology (WASOT).
13. Foundation Editorial Board Chairman- Archives of Basic and Applied Medicine (ABAM)
14. Fellow Royal Society of Chemistry (FRSC), United Kingdom (2010-).
15. 2010 Olumbe Bassir Memorial Guest Lecturer, Kebbi, 2010.
16. Member Board of Trustees of the West African Society of Toxicology (WASOT).
17. Supervisor of the Most Outstanding Doctoral (Ph.D) Thesis in Basic Medical Sciences in Nigerian Universities in the 2008/2009 Assessment of Thesis by the Nigerian University Commission (NUC)
18. 2014 Society of Toxicology (USA) Global Senior Toxicology Scholar
19. Fellow Nigerian Academy of Science (FAS) (2014)
20. Fellow Academy of Toxicological Sciences- ATS (USA) (2014)
22. Fellow African Academy of Science (FAAS) (2015)
23. Showcased in the 2014 University of Ibadan Research Report for Translational Research
24. 2014 - Faculty of 1000 recommended paper (Food Chemical Toxicology. 2014; 65:252-9; (<https://f1000.com/prime/718243023>))
24. Top Rated (Best) Nigerian Scientist following February 2015 edition of Webometric Ranking of Nigerian Scientists according to GSC. **H-index= 55, i10-Index= 200; Total citations= 12,411**
25. 2015 Olumbe Bassir Memorial Guest Lecturer, Minna, 2015.
26. Outstanding Research Award for Commitment and Outstanding Contributions to Research and Innovation in the College of Medicine, University of Ibadan, Nigeria- 22 September 2016
27. University of Ibadan of Role of Honor: Researchers with highest Research output in 2017
28. 2017 Professor Horatio Oritsejolomi-Thomas Distinguished Lecture
29. Identified by the College of Medicine Research and Innovations Management (CRIM) Unit as a Research Champion within the College of Medicine, University of Ibadan- 20 July 2018
30. Supervisor of the Best PhD Thesis Produced in the University of Ibadan, which won Omoworare Lucas Prize 2018
31. Supervisor of Best PhD Thesis Produced in the University of Ibadan, which won Postgraduate School Award 2018
32. Fellow Nigeria Society of Biochemistry and Molecular Biology (NSBMB), Nigeria (2019)
33. President, Forum of Nigeria Toxicologists (FONTOX) 2020
34. Meritorious Award for Selfless Service to Humanity and Distinguished Professor of Eminence with Global recognition in the area of Biochemistry received at the 1<sup>st</sup> Recent Advances in Biotechnology Annual Symposium and Workshop at the Precious Cornerstone University, Ibadan, 2020
35. Top 500 Authors by Scholarly output in Nigeria over the period 2014-2019- SciVal Elsevier (**Highly ranked on the list'**)
36. Top 500 Authors by Scholarly output in University of Ibadan over the period 2014-2019- SciVal Elsevier (**Top on the list**)

37. Cited and Listed in the Top 2% World Ranking of Scientists by Stanford University, USA (2020)
38. Ranked No 1 Toxicologist in Nigeria and Top 1% of 45,124 Toxicologists in the world by Stanford University, USA (2020)
39. Ranked Best scientist in University of Ibadan in the recent (2021) AD Scientific Index Ranking of World Scientists and Universities
40. Fellow Academy of Medicine Specialties of Nigeria (FAMeS), 2021
41. Cited and Listed in the Top 2% World Ranking of Scientists by Stanford University, USA (2021 and 2022)
42. Ranked No 1 Toxicologist in Nigeria by Stanford University (2021 and 2022)
43. Review Editor- Frontiers in Pharmacology (2022-date)

## 8. Career And Employment History /Work Experience (With Dates)

No	Period	Employer	Title and Type of Work	Main Responsibilities
1.	1988-1989	University of Ibadan	Practical demonstrator	Demonstration of weekly practical to Medical, Veterinary and Pharmacy students.
2.	1989-1990	University of Ibadan	Graduate Assistant	Coordination of BSc practical and co-supervision of BSc final year projects
3.	1990-1993	University of Ibadan	Assistant Lecturer	Teaching of undergraduate courses in Biochemistry, supervision of BSc final year projects.
4.	1993-1997	University of Ibadan	Lecturer II	Teaching of undergraduate and MSc courses in Biochemistry and supervision of BSc final year and MSc projects
5.	April 1996- Nov 1996	University of Liverpool	Post doctoral Fellow	Advanced training in Biochemistry and conduct of research; Supervision of BSc final year projects.
6.	1997-2000	University of Ibadan	Lecturer I	Teaching of undergraduate and MSc courses in Biochemistry and supervision of BSc final year and MSc projects; BSc programmed and SIWES coordinator
7.	2000-2003	University of Ibadan	Senior Lecturer	Teaching of specialized courses at BSc and MSc levels in Biochemistry and supervision of BSc, MSc, Mphil and PhD students; Departmental PG coordinator.
8.	Nov 2001- Feb 2002	Institute of Food Safety and Toxicology, Denmark	Visiting Scholar	UNESCO/MCBN Fellowship for advanced and specialized training in Toxicology.
9.	March 2002- May 2002	University of Aarhus, Denmark	Visiting Scholar	Danish Research Council Grant sponsored research training in Environmental Carcinogenesis; Guest lecturer and teaching of MSc students in Environmental science.
10.	2003-2006	University of Ibadan	Reader	Teaching of specialized courses at BSc and MSc levels in Biochemistry and supervision of BSc, MSc, and PhD students Departmental PG coordinator.
11.	2005-2006	Seoul National University, South Korea	Visiting Professor	On Sabbatical leave to Conduct Advanced Research on novel Anticancer agents; Supervision of PG students.
12.	2006-date	University of Ibadan	Full Professor	Academic leadership at the Department and University. Teaching of specialized courses at BSc and MSc levels in Biochemistry and supervision of BSc, MSc, and PhD students

13.	Oct 2007- Dec 2007	Friedrich-Schiller University of Jena, Jena, Germany	Visiting Professor	Conduct of Advanced research on novel Phytochemicals as modulators of Prostate and Colon Cancer at Institute for Nutrition, University of Jena.
14.	2008-2009	Redeemer's University (RUN)	Adjunct Professor	Teaching and mentoring of undergraduate students in the Department of Chemical Sciences.
15.	2008-2010	University of Ibadan	Head Department of Biochemistry	Academic and Administrative leadership
16.	2009-2017	Jackson State University, Jackson, Mississippi, USA	Visiting Professor	Distinguished Speaker and Judge of posters at International Conference on Environmental Science hosted by Jackson State University.
17.	2010-2014	University of Ibadan	Dean Faculty of Basic Medical Sciences	Academic and Administrative leadership over 10 Departments.
18.	2011-2013	University of Chicago, Medical School, USA	Visiting Professor	Assessment of Medical curriculum at the Chicago Medical School University for the curriculum change and review of the Medical programme in Ibadan.
19.	2011	Cape Peninsular University of Technology, Cape Town, South Africa	Visiting Professor	Collaboration with the Department of Biomedical Sciences, Faculty of Health and Wellness Sciences on Antioxidant Research and supervision of PhD student.
20.	2014	Indiana University Bloomington, USA	Visiting Professor	Guest Researcher at the Department of Environmental Health, Building capacity for Toxicology in Africa sub region, Development of Curriculum for MSc Toxicology in University of Ibadan.
21.	2014-2016	Osun State University, Osogbo	Visiting Professor	On Sabbatical leave/ leave of absence. Academic leadership and mentoring of undergraduate students and strengthening of newly established MSc programme.
22.	2016-2020	University of Ibadan	Head Department of Biochemistry	Academic and Administrative leadership

## 9. Visiting Positions And International Collaboration With Scientists

- **Visiting Scientist:** School of Biological Sciences, University of Liverpool, United Kingdom (U.K) April 1996 -November 1996 (**Host- Professor George Britton**)
- **Visiting Scientist:** Institute of Food Safety and Toxicology, Danish Veterinary and Food Administration, Søborg, Denmark 2001-2002 (**Host-Professor Lars O. Dragsted**)
- **Visiting Scientist:** Institute of Public Health, University of Copenhagen and Institute of Environmental and Occupational Medicine, University of Aarhus, Denmark 2002 (**Host-Professor Herman Autrup**)
- **Visiting Professor:** National Research Laboratory of Molecular Carcinogenesis and Chemoprevention, College of Pharmacy Seoul National University, South Korea 2005-2006 (**Host-Professor Young-Joon Surh**)
- **Visiting Professor:** Department of Nutritional Toxicology, Institute for Nutrition, Friedrich-Schiller University of Jena, Jena, Germany 2007(**Late Professor Beatrice L. Pool-Zobel**)
- **Visiting Professor:** College of Science, Engineering and Technology, Jackson State University, Jackson, Mississippi, USA 2009, 2010 (**Host-Professor Ernest Izevbogie**)
- **Visiting Professor:** Medical School, University of Chicago, USA, 2011 (**Host-Professors Sola and Funmi Olopade**)
- **Visiting Professor:** Cape Peninsular University of Technology, Cape Town, South Africa 2011 (**Host-Late Professor Johan Esteryuse**)
- **Visiting Professor:** Indiana University Bloomington, IN, USA 2014 (**Host-Professor James E. Klaunig**)
- **Visiting Professor:** Georgia Institute of Technology, Atlanta Georgia, USA 2019. (**Host-Professor Yomi Oyelere**)

## 10. Membership Of Learned Societies

- (a) Member, Nigeria Society of Biochemistry and Molecular Biology (NSBMB) (affiliated to the International Union of Biochemistry).
- (b) Member, Pan Federation of African Societies of Biochemistry and Molecular Biology (FASBMB)
- (c) Member, Society for Free Radical Research International (SFRRRI) (African Branch)
- (d) Member, Society for Free Radical Research International (SFRRRI) (European Region)
- (e) Member, Pan-African Environmental Mutagen Society (PAEMS)
- (f) Member, UNESCO Global Network for Molecular and Cell Biology (MCBN)
- (g) Member, New York Academy of Sciences
- (h) Member, West African Society of Toxicology (WASOT)
- (i) Member, (Full) Society of Toxicology (SOT)
- (j) Member, Nigerian Society for Toxicological Sciences (NSTS)
- (k) Member, College of Fellows Nigeria Society of Biochemistry and Molecular Biology (NSBMB)
- (l) Full Member Biochemical Society (UK)
- (m) Full Member American Association for Cancer Research (AACR)
- (n) Life Member and Fellow, Nigeria Academy of Science (NAS)

## 11. Service To the International Scientific Community

### (A) Editorial Assignment

1. **Editor-in-Chief**, Ibadan College of Medicine Magazine (IBACOM) (2006- 2010).
2. **Foundation Editor-in-Chief**, Official Journal of the West African Society of Toxicology, (WASOT).
3. **Guest Editor**, Unibadan Biomedical Research Supplement, African Journal of Medicine and Medical Sciences (2010, 2012)
4. **Editor**, Nutritional Antioxidants in Cancer and Degenerative Diseases (2009) *Published by Research Sign Post, Kerala*
5. **Foundation Chairman of Editorial Board**- Archives of Basic and Applied Medicine (ABAM)
6. **Member**, Editorial Board- Medical Technology (South Africa) (2010-date)
7. **Member**, Editorial Board- African Journal of Medicine and Medical Sciences- 2000- 2010
8. **Member**, Editorial Board- African Journal of Biotechnology 2002- date
9. **Member** -International Reviewers Panel (IRP) Medical Science Monitor (USA)
10. **Associate Editor**- Archives of Medical and Biomedical Research
11. **Member**, Editorial Advisory board of Biokemstry
12. **Associate Editor**, American Journal of Pharmacotherapy and Pharmaceutical Sciences (AJPPS) (2021-)
13. **Review Editor** on the Editorial Board of Inflammation Pharmacology (specialty section of Frontiers in Immunology and Frontiers in Pharmacology).

### (B) Journal Peer Review

Reviewer: American Journal of Clinical Nutrition, Tropical Journal of Obstetrics and Gynaecology, Journal of Chromatography A, European Journal of Clinical Nutrition, Basic and Clinical Pharmacology and Toxicology (Denmark), Evidence Based Complementary and Alternative Medicine (eCAM), Food and Chemical Toxicology (UK), Human and Experimental Toxicology (UK), Toxicology and Industrial Health (USA), Journal of Ethno pharmacology (Ireland), Mutation Research (Netherlands) etc

### (C) Organization of Local and International Scientific Meetings/Conference -

1. **Member** Organizing committee of 1<sup>st</sup> International Conference of the Society for Free Radical Research- Africa, Kruger Park, Mpumalanga, Johannesburg, South Africa (2000)
2. **Co-organizer** 2<sup>nd</sup> International Conference of the Society for Free Radical Research- Africa, Reduit, Mauritius (2001).
3. **Chairman Technical Committee**, Local Organizing Committee (LOC) of the First West African Bioinformatics Workshop Series (WABWS) at the University of Ibadan, Nigeria, May 26-June 7<sup>th</sup>, 2003.
4. **Chairman Registration and Logistic Committee** Local Organizing Committee (LOC) of the First Ibadan Biomedical Conference, August 26-29, 2008
5. **Co-organizer** Second Ibadan Biomedical Conference, July 24-27, 2010
6. **Co-organizer** 7<sup>th</sup> Society for Free Radical Research Africa (SFRR-Africa), 28<sup>th</sup> African Health Sciences Congress & 4<sup>th</sup> African Rotavirus Symposium 14 – 17 July 2008, MAURITIUS
7. **Co-organizer** 2011 Joint International Research Conference-4<sup>th</sup> Walter Sisulu University International Research Conference, 8<sup>th</sup> International Conference of the Society for Free Radical Research-Africa, 31<sup>st</sup> African Health Sciences Congress, 4<sup>th</sup> International Conference of the Promotion of Traditional Medicine. 17-19<sup>th</sup> August, 2011 hosted by Walter Sisulu University
8. **Chairman/Conference Convener** Third Ibadan Biomedical Conference, July 24-27, 2012
9. **Chairman/Conference Convener** Third Ibadan Biomedical Conference, July 24-27, 2014
10. **Member**, 1<sup>st</sup> Nigeria Academic of Science Scientific Conference, January 2020

11. **Member**, 2<sup>nd</sup> Nigeria Academic of Science Scientific Conference, January 2021
12. **Web Conference Convener, Forum of Nigerian Toxicologists (FONTOX) Web Conference on Current Research and Challenges in Toxicology, 27-28 April, 2022**

## 12. Current Research Interest and Technical Skills

- Preclinical analysis and screening of Indigenous medicinal plants and phytochemicals against Viral illnesses including COVID-19
- General *In vitro*, *In vivo* and *Ex vivo* toxicity tests and assays for safety and toxicity of foods, cosmetics and drugs
- Heavy metal detection in Food products
- High throughput screening of medicinal herbs and plant substances for safety and toxicity
- Natural product chemistry and phytochemical analysis of herbal medicinal plants
- Toxicity and Safety Profile of African based herbal products
- Genotoxicity and clastogenicity Tests of food, drugs and chemical compounds- Comet and bone marrow micronucleus assays
- Use of non-mammalian organisms (*Drosophila melanogaster* and lobster cockroach *Nauphoeta cinerea*) for safety and toxicity of drugs, food, herbs and chemical compounds.
- Chemical Characterization of plant-derived and herbal medicinal plants as antioxidant prophylactics
- Cellular/Molecular Mechanisms toxic compounds using signal transduction network
- Biomarkers and molecular diagnostics for liver, kidney, lung, colon, brain and prostate-related diseases
- Use of immunohistochemistry and immunofluorescence for assessment of food and drug toxicants
- Use of spectroscopic techniques- Gas Chromatography Mass Spectrometry (GC-MS) and Liquid Chromatography Mass Spectrometry (LC-MS), HPLC
- Use of molecular biology techniques- Western blotting, RT-PCR, Electrophoretic Mobility Shift Assay (EMSA) and Flow cytometric analysis

## 13. Selected Grants and Fellowships

1. 1991-1992 **Pre-doctoral Research Grants**: Cadbury (Nig) Plc. & Wellcome (Nig) Fund.
2. 1995-**World Bank Project Staff Development Programme**, University of Liverpool, UK.
3. **1998 -Recipient: UNESCO/MCBN Travel fellowship** award to attend the 38<sup>th</sup> Annual congress of the Federation of South African Societies of Pathology in association with the Society for Free Radical Research. 28<sup>th</sup> June-1<sup>st</sup> July, 1998, University of Pretoria, South Africa.
4. **1998 -Recipient: International Union of Biochemistry and Molecular Biology (IUBMB) Travel fellowship** award to attend the 2<sup>nd</sup> International congress of the Federation of African Societies of Biochemistry and Molecular Biology, 30<sup>th</sup> Sept- 3<sup>rd</sup> Oct, 1998, Potchefstroom University for Christian Education, Potchefstroom, South Africa.
5. 1998-**WHO/TDR Fellowship** for Participation in Workshop on Biochemical Pathway in parasites of medical 14-16<sup>th</sup> January, 1998, University of CapeTown, South Africa.
6. **Recipient: Pan-African Environmental Mutagen Society (PAEMS) Travel Fellowship** award to attend the 3<sup>rd</sup> International conference on Susceptibility to Environmental Mutagens: Molecular, Epidemiological and Public health aspects 1-5<sup>th</sup> March, 1999, Harare, Zimbabwe.
7. **Recipient: Society for Free Radical Research (SFRR-Africa) Fellowship** for **organization** and participation at the 2<sup>nd</sup> International conference on Molecular Mechanisms and Therapeutic interventions in Cancer, Cardiovascular diseases and Infectious diseases 15<sup>th</sup> –19<sup>th</sup> July, 2001, University of Mauritius, Reduit Mauritius.
8. 2001-**UNESCO Global Network for Molecular and Cell Biology (MCBN) Short-term Fellowship** to Denmark.
9. 2002-**Danish Research Council Grant** (Grant number 9801314) to the Institute of Public Health, University of Copenhagen and Institute of Environmental and Occupational Medicine, University of Aarhus, Denmark.
10. 2003 **Recipient: International Union of Biochemistry and Molecular Biology (IUBMB) Travel Fellowship** award to attend the 4<sup>th</sup> International Congress of the Federation of African Societies of Biochemistry and Molecular Biology (FASBMB), 25<sup>th</sup>-28<sup>th</sup> November, 2003, Cameroon.

11. 2004 **Recipient: Lady Bank-Anthony Grant for Cancer Research** to study the Chemopreventive role of Nigerian indigenous Natural biflavonoid compounds in Experimental Rat Prostate Carcinogenesis in University of Jena, Germany.
12. 2005-2006 **Recipient: Visiting Professorship Grant**, by the National Research Laboratory (NRL), Seoul National University, from Ministry of Science and Technology, South Korea
13. 1996,1999, 2000: University of Ibadan Senate Research Grant Award for Individuals (**Principal Investigator**)
14. 2006: University of Ibadan Senate Research Grant Award for **Multidisciplinary Research Projects**; Category C Inter Faculty group researchers (**Co-Principal Investigator**)
15. 2006: University of Ibadan Senate Research Grant Award (**Principal Investigator**)
16. 2008: The John D and Catherine T MacArthur Foundation Grant for **Multidisciplinary Team Research- by open competition (Principal Investigator)**
17. 2008 & 2009: The John D and Catherine T MacArthur Foundation Grant under **Specialized Linkages/Meetings/Conferences** in the special area of **Biotechnology and Medical Chemistry (Principal Investigator)**
18. **Recipient: National Institutes of Health (NIH) RCMI-Center for Environmental Health, the U.S. Department of Education Title III Graduate Education Program, the U.S. Environmental Protection Agency** fellowship to deliver Plenary lecture at the 7th International Symposium on Recent Advances in Environmental Health Research – September 12-15, 2010 Marriott Hotel, Jackson State University, Mississippi, USA.
19. 2010: University of Ibadan Senate Research Grant Award for Multidisciplinary/Interfaculty Research (**Principal Investigator**) on the Role of Selected Nigerian Indigenous Phytochemicals in *Helicobacter pylori*-induced Gastritis in Rat model and Underlying Molecular Mechanisms
20. 2011: The John D and Catherine T MacArthur Foundation Grant for establishment of Center for Drug Discovery, Development and Production (CDDDP) (**Collaborator**)
20. **Recipient-2012 IUTOX fellowship** to deliver invited lecture at the 8<sup>th</sup> Congress of Toxicology in Developing Countries (8-CTDC), September 10-13, 2012, Bangkok, Thailand.
21. **Recipient and Winner by Open International Competition** 2014 Society of Toxicology SOT (USA) Global Senior Scholar Exchange Toxicology Fellowship
22. 2015: **TETFUND** National Research Foundation (NRF) Grant (**Principal Investigator**) on *Preclinical Evaluation of NeuroProtective Role of Kolaviron, a Natural Antioxidant and Anti-inflammatory Agent, isolated from the Seed of Garcinia kola (bitter kola) in Animal and Drosophila melanogaster Models of Parkinson's Disease: Cellular and Molecular Mechanisms.*
23. 2015: **TETFUND** Institutional Based Research (IBR) Grant (**Principal Investigator**) on *Molecular Mechanisms Underlying the Chemopreventive Role of 6-Gingerol and 6-Shogaol from Zingiber Officinale (Ginger) in Azoxymethane and Dextran Sulfate Sodium-induced Mouse Model of Colorectal Cancer*

#### **14. Teaching & Research Supervision Experience at The University Level**

- (i) Undergraduate and Postgraduate Teaching at the University of Ibadan -  
**Thirty years (32)**
- (ii) Guest Lecturer: Institute of Environmental Studies, University of Aarhus Denmark. 2002
- (iii) Associate lecturer, Department of Biochemistry Ladoke Akintola University of Technology (LAUTECH) Ogbomoso Nigeria (2004-2006)
- (iv) Associate lecturer, Department of Chemical Sciences, Redeemers University for Nations (RUN), Lagos, Nigeria (2006-2008)
- (v) Adjunct Professor, Department of Chemistry and Biochemistry, Bowen University, Iwo, Nigeria (2006-2009)
- (vi) Guest Biochemistry Lecturer: National Postgraduate College of Obstetrics and Gynecology/ West African College of Surgeons Primary update Course in Obstetrics and Gynecology (2008-date)
- (vii) Guest Biochemistry Lecturer: West Africa College of Physician Primary Update Course in Psychiatry (2006-date)

- (viii) Undergraduate Research Supervision- **I have supervised Over 100 BSc projects**
- (ix) Masters (MSc) Research Supervision-**I have supervised over 250 MSc dissertations**
- (x) Supervision of Ph.D-**I have trained and supervised Twenty (26) PhD students**

**-Organization and supervision of weekly practical classes:** Medical (MBBS/BDS), Pharmacy (B. Pharm), Physiotherapy, Veterinary and Biochemistry students.

**Lectures in Biochemistry to the following categories of students:**

Preclinical Medical (MBBS) students, Preclinical (B.D.S) students, B.Sc Physiotherapy students, Veterinary (D.V.M) students, B. Pharmacy students, B.Sc Physiology students, B.Sc Microbiology, B.Sc Human Nutrition, B.Sc Nursing students, B.Sc Biochemistry students at 200, 300 and 400 levels.

## **AREAS OF TEACHING**

### **UNDERGRADUATE (1990-date)**

**Lectures to BSc Biochemistry and Medical (MBBS/BDS) and B. Pharmacy students in the following areas:**

General and Basic Biochemistry, Cell Biochemistry and Metabolism-Molecular organization of cells, Drug Metabolism (Xenobiochemistry), Biochemistry of prevalent parasitic and infectious diseases in tropical Africa- Malaria, HIV, Lassa fever, TB, Basic and Advanced Enzymology, Chemistry and Biochemistry of nucleic acids- structure and composition of nucleic acids, Genome organization, DNA replication and protein biosynthesis, Endocrinology-Principles, chemistry and functions of hormones, second messenger systems, Molecular Biology, Biochemical Pharmacology and Toxicology, Immunochemistry, Protein, carbohydrates and lipid chemistry and Metabolism, Free Radicals in Biomembranes and Toxicology, Forensic Biochemistry-Analytical procedures, law, science and medicine in forensic practices, DNA finger printing.

### **POSTGRADUATE (1990-date)**

**Lectures to M.Sc Biochemistry class in the following areas:**

Principles of Drug metabolism-CYP450 and regulation, Drug activation and Detoxification mechanisms, Molecular and cellular mechanism of toxicity and carcinogenesis-Necrosis, Apoptosis and receptor-mediated toxicity, Pharmacokinetics and drug distribution-One and two compartment models, clinical applications, organ drug clearance, Toxicokinetics, Pharmacogenetics-Genetic polymorphisms, toxic responses, Fetal drug metabolism and placental transfer of drugs, Biochemical Mechanisms of intra and inter cellular Communications, Biochemistry of Free Radicals and Reactive oxygen species, Oxidative stress and associated diseases, Signal transduction mechanisms- second messenger systems, transcription factors and stress response proteins, Apoptosis and pathways, Bioinformatics-Toxicogenomics. Role of pro-resolvins (maresins and protectins) in inflammation-associated diseases, Chemical carcinogenesis.

### **Phd Thesis Supervised**

1. **Adaramoye O.A.** (2005): Evaluation of Some biochemical and Pharmacological Properties of Garcinia kola seed Extracts in Experimental Animals. Co-supervised

2. **\*Ekor, M. (2009)** Modulation of Gentamicin and Cisplatin-induced renal damage by Methanolic Extract of Soybean in rats
3. **Owoeye O (2010):** Anticancer activity of *Vernonia amygdalina* Del. Leaf Extract, its antioxidant and radioprotective properties in the brain of rats. Co-supervised
4. **Adesanoeye, OA (2010):** Antioxidant and Chemoprotective properties of *Vernonia Amygdalina* Del. Leaf extracts in experimental models of hepatotoxicity and human erythrocyte lysis
5. **Akinmoladun AC (2011):** Biochemical and Pharmacological properties of methanolic leaf extract of *Spondias mombin* Linn
6. **Adedara IA (2011):** Influence of Kolaviron on Testicular damage and impaired steroidogenesis induced by Ethylene glycol monoethyl ether and Carbendazim in rats
7. **Soetan KO (2011):** Biochemical, Nutritional and Toxicological studies on three varieties of Lablab Purpureus (L) sweet seeds
8. **Abarikwu SO (2012):** The Protective effects of Kolaviron and Quercetin on Atrazine-induced neuronal and testicular damage in cells and rats
9. **Ogunbileje JO (2012):** Cement dust-induced immunotoxicological and cellular responses in lung cell
10. **Adesida, A (2013):** Protective effects of ethanolic extracts of *Psidium guajava* on adriamycin-induced nephrotoxicity and genotoxicity in rats.
11. **Olayinka ET (2014):** Artemisinin combination antimalaria-induced toxicity in the rat and the protective role of Kolaviron
12. **Arojojoye O.A. (2014):** Leachate-induced toxicity in the Albino rat and African Cat fish, *Claria gariepinus*
13. **Ebokaiwe A.P (2014):** Nigerian Bonny light crude oil induced-oxidative stress in human serum and modulation of its testicular dysfunction in wistar rats by Quercetin and Vitamin E
14. **Osawe S O (2015) -**The protective effects of Quercetin and Rutin on Sulfasalazine-induced testicular toxicity and apoptosis in male Wistar rats
15. **Tijani, S A (2015) -** The protective and healing effects of methanolic extract of *Chasmantera dependens* stem on acidified methanol and indomethacin-induced gastric ulcer and apoptosis in male wistar rats
16. **Asejeje FO (2015) -** The protective role of Protocatechuic acid in Nevirapine-induced hepatotoxicity and apoptosis in male Wistar rats
17. **Ajiboye, JA (2015) -** The protective effects of New buoldiea leaves (Evergreen plant) on Ketoconazole-induced testicular toxicity and apoptosis in male Wistar rats
18. **Oyagbemi AA (2016):** Chemopreventive effects of methanol extract of *Garcinia kola* seed and Kolaviron against cardiotoxicity in experimental rat model
19. **Salihu M (2016):** Modulatory effect of 6-Gingerol-rich fraction (*Zingiber officinale*) on hepatorenal and reproductive toxicity of carbendazim on male rats
20. **Otuechere C (2016):** Protective role of *Pterocarpus mildraedii* extract on propanil-induced hepatotoxicity and alterations in apoptotic related proteins
21. **\*Awogbindin IO (2017): Antioxidative and immunomodulatory effects of Kolaviron on influenza virus-induced toxicity in Balb/c mice.**
22. **Ajayi BO (2017):** Chemopreventive role of 6-Gingerol in ulcerative colitis and colorectal cancer in Balb/c mice
23. **Adeyemo-Salami OA (2017):** Antiplasmodial and chemopreventive effects of *Paullinia pinnata* Linn in ethylene glycol monomethyl ether-induced testicular dysfunction in rodents
24. **Unachukwu N (2019):** An assessment of genetic diversity in *Striga hermonthica* plants from Nigeria and Kenya and their physio-biochemical relationship with selected maize lines
25. **Maduako I (2021):** Chemoprotective Role of 6-Gingerol, A Bioactive Compound From (*Zingiber officinal*, Roscoe) In Mouse Model of Hepatocellular carcinoma
26. **Adetuyi, BO. (2021):** Attenuation of Neuroinflammation by 6-Gingerol in Male Wistar Rats

**\*Adjudged as the Most Outstanding PhD Thesis in Basic Medical Sciences in Nigerian Universities by the NUC in the 2008/2009 Assessment of Thesis in Nigerian Universities**

**\* Omoworare Lucas and Postgraduate School Best PhD Thesis produced in University of Ibadan (2018)**

**15. Internal/External Examination Of University Students**

- (1) Internal Examiner in Biochemistry (BSc, Medical (MBBS/BDS), B. Pharm and non-medical examinations for undergraduate and postgraduate studies) University of Ibadan, 1990 – Date
- (2) Internal-External examiner of MPhil and PhD students, University of Ibadan.
- (3) External Examiner of Medical Students (Part 1 MBBS/BDS) in various Medical Schools in Nigeria.
- (4) External Examiner for the Fellowship Examinations of the West African College of Surgeons-Obstetrics and Gynaecology (2006-2008).
- (5) External Examiner of BSc, MSc and Ph.D Biochemistry Students in various Universities in Nigeria. University of Lagos, Lagos, Obafemi Awolowo University, Ife, University of Nigeria, Enugu, Redeemers' University for Nations, Lagos, Bowen University, Iwo, Ladoke Akintola University of Technology, Ogbomoso, Ajayi Crowther University, Oyo, Federal University of Agriculture Abeokuta
- (6) External Examiner College of Medicine and Allied Health Sciences, Freetown, Sierra Leone 2010-2012

**16. Excellence In Postgraduate Supervision And Mentoring Of Students And Young Faculty**

1. Supervisor and mentor of **26 Outstanding Phd students** in Biochemistry and Toxicology
2. Supervisor of the **Most Outstanding PhD Thesis in Basic Sciences in Nigeria Universities** following NUC assessment- 2008/2009.
3. Mentor of recipient of the **Most Outstanding Proposal** and winner of the College of Medicine, UI early investigators award scholarship- 2014
4. Mentor of the **Most Outstanding Poster Presenter** at the West Africa Society of Toxicology International Conference at UNILAG (February 2014)
5. Mentor of the **Best Poster Presenter** at the 4<sup>th</sup> Unbadan Conference of Biomedical Research (UCBR) July 2014
6. To date **Eight (8) of my former Postgraduate students are Professors** and many are Senior lecturers in academia while others occupy senior positions in industries both at home and abroad
7. Mentor of University postgraduate school award for **Outstanding Publications from PhD thesis**
8. Mentor of recipients of **High Ranking International Fellowships/ Scholarships** namely- TWAS, Lady Bank Anthony Cancer Fellowship, Key stone (USA) fellowship, Society of Toxicology (USA), IUTOX AstraZeneca fellowship etc
9. Mentor of the **Best Poster Presenter** at the 5<sup>th</sup> Unibadan Conference of Biomedical Research (UCBR) July 2016
10. Mentor of the **Best Poster Presenter** at the 6<sup>th</sup> Unibadan Conference of Biomedical Research (UCBR) July 2018
11. Supervisor of **Winner of Omoworare Lucas Prize** for Best PhD Thesis produced in University of Ibadan (2018)
12. Supervisor of **Winner of Postgraduate School Prize** for Best PhD Thesis produced in University of Ibadan (2018)
13. Mentor of the **Best Oral Presenter** at the 8<sup>th</sup> Annual Scientific conference of the Faculty of Basic Medical Sciences, University of Lagos 2<sup>nd</sup> -3<sup>rd</sup> October 2019

## 17. Administrative Capability And Experience

### (A.) Selected Administrative & University Service

1. Member of Departmental Biochemistry Academic Committee (1990-date)
2. Doctor of Veterinary Medicine (DVM) Programme Coordinator (1990-1997)
3. Representative of Department of Biochemistry on the Faculty Board of Veterinary Medicine 1993- 1999
4. Assistant General Studies Coordinator, Faculty of Basic medical Sciences. (1994-1999).
5. Representative of the Department of Biochemistry on the Faculty Board of Pharmacy (1996-2005)
6. B.Sc Biochemistry Programme Coordinator (1996-2005)
7. Departmental Coordinator of Students' Industrial Work Experience (SIWES) Programme (1996-2005)
8. Curriculum Development for the Biochemistry Degree Programme in the Faculty of Science, BOWEN University IWO (2002).
9. Representative of the Faculty of Basic Medical Sciences on the Management
10. Board of African Journal of Medicine and Medical Sciences (2002-)
11. Member College of Medicine Academic Board (2002-date)
12. **Postgraduate Coordinator**, Department of Biochemistry (2002-2005)
13. Member, Postgraduate Sub-Committee, Faculty of Basic Medical Sciences, College of Medicine, University of Ibadan, Nigeria
14. **Senate Member**, University of Ibadan (2003-date)
15. **Sub-Dean Postgraduate**, Faculty of Basic Medical Sciences (2006-2008)
16. Member Executive and Curriculum Committees of the Postgraduate School (2006-2014).
17. **Director**, Molecular Drug Metabolism and Toxicology Research Laboratories, University of Ibadan (2006-date)
18. **Head of Biochemistry Department**, University of Ibadan (February 1<sup>st</sup>, 2008- 31<sup>st</sup> July, 2010)
19. Focal person, University of Ibadan-Jackson State University (USA) linkages (2008)
20. Facilitator of Biochemical Society (UK) Mentoring Academic Programme for Postgraduate Students in Biochemistry (2009)
21. **Coordinator**, Zonal Committee, National Biotechnology Development Agency (NABDA) Zonal Biotechnology Centre (October 2008-date).
22. **Leader**, University of Ibadan Biotechnology Center of Excellence Project (November 2009-2010)
23. Faculty of Basic Medical Sciences Representatives on College Appointments and Promotions Committee for Academic Staff (2009- 2010); (2016-date)
24. Faculty of Basic Medical Sciences Representatives on College of Medicine Promotions Committee (Part II Cases) for Academic Staff (2009- 2010); (2016-date)
25. **Dean**, Faculty of Basic Medical Sciences (1<sup>st</sup> August, 2010-31 July 2014)
26. Chairman Faculty Basic Medical Sciences Students' Disciplinary Committee (2010-2014)
27. Member, Committee of Provost and Deans (COPD) (2010-31 July 2014)
28. Member, University Appointment and Promotions Committee (2010-31 July 2014)
29. Member, Development Committee of the University of Ibadan (2010-31 July 2014)
30. Member, Research Management Sub-Committee of the Development Committee of the University of Ibadan (2010-31 July 2014).
31. Member, Finance Management Sub-Committee of the Development Committee of the University of Ibadan (2010-31 July 2014)
32. Member, Executive Committee of the College of Medicine University of Ibadan (2010-31 July 2014)
33. Member, Finance Committee of the College of Medicine University of Ibadan (2010-31 July 2014)
34. Member University of Ibadan Central Students' Disciplinary Committee (2010-2014)
35. Member, Post graduate School Finance Committee (2010-2014)
36. Member, Board of the Post graduate College (2006-2010; 2010-2014; 2016-2020)
37. Member, UI- Conference Support Committee (2010-2014)
38. **Acting Director**- Institute for Advanced Medical Research and Training (IAMRAT) 1<sup>st</sup> May-31<sup>st</sup> July 2011
39. **Acting Provost**, College of Medicine, University of Ibadan-2010- 31 July 2014 (On several occasions)

40. **Head of Biochemistry Department**, University of Ibadan (1<sup>st</sup> August, 2016- July 31, 2020)
41. Faculty of Basic Medical Sciences Representative on University Central Appointments and Promotions Committee for Academic Staff (2016-date)
42. Faculty of Basic Medical Sciences Representative on College of Medicine Scholarships and Prizes Committee (2016-date).
43. Faculty of Basic Medical Sciences Representative on Appointments and Promotions Panel for Institute for Advanced Medical Research and Training (IAMRAT) (2016-date)
44. Member, University of Ibadan Committee on 100 & Change McArthur Grant Writing Team (2016-2017)
45. Member of UI-Research Foundation Review Panel (2019-date)
46. Member, Sectional Committee of Biochemistry, Molecular Biology and Biotechnology Sciences of the Nigeria Academy of Science (2018-2020)
47. **Chairman** Sectional Committee of Biochemistry, Molecular Biology and Biotechnology Sciences of the Nigeria Academy of Science (2020-date)
48. **Senior Research and Academic Leader**- Board of University of Ibadan Research Foundation (2022-date)

### **(B) Services To the University on Human Capital Development**

1. Resource person on capacity building workshop organized by the Deputy Vice Chancellor (Academic) on *Innovative research and high impact scholarly publications for early career academics in sciences and humanities based disciplines Oct 24, 2017.*
2. Resource person at the workshop organized by the University management for *Deans, Directors and Heads of Department on University promotion guidelines. May 8 2018.*
3. Resource person at a day symposium on *Achieving Productive and Successful career in Academia by the University of Ibadan Medical Education Partnership Initiative Junior Faculty Research Training Programme. May 16 2018*
4. Reviewer of Grant Proposals for the Africa Centers of Excellence (ACE) Phase 3 Project. Jun 6 2018
5. Resource person and Plenary speaker (*Title: Research Training and Preparation to be Competitive*) at a *Year 03 Development Retreat on Promoting Excellence in Research by the University of Ibadan Medical Education Partnership Initiative Junior Faculty Research Training Programme at Ibadan Business School, Francis Okediji Street, Ibadan. October 10-11, 2018*
6. Resource person and Guest speaker at the Academic Career Retreat organized by the Faculty of Veterinary Medicine on the Theme *“Striving For Academic Excellence in a Challenging Environment; 10<sup>th</sup> July 2018*
7. Resource person and Guest speaker at a Two-day Workshop for Academic Staff on the Theme *“Academic Excellence” organized by the Faculty of Pharmacy with the topic “What Assessors look For in Promotion Assessment”; 8-9<sup>th</sup> August 2018*
8. Resource person and Guest speaker at the Seminar organized by the Faculty of Agriculture and Renewable Natural Resources on the Theme *“Towards a Stress Free Career Progression: Understanding University of Ibadan Promotion Guidelines with the topic “The Role and Expectation of Assessors in Promotion Assessment; 7<sup>th</sup> August 2019*
9. Foundation’s Day Lecture and Conferment of Awards at the Precious Cornerstone University (PCU), Ibadan with the Topic *“The Challenges and Future of Private Universities in Nigeria”, 11<sup>th</sup> November 2019*

10. Resource person and Guest speaker at the Workshop organized by the Institute of Education on the Theme **“Visibility of Research Output” “with the topic Making your Research output Visible; 25<sup>th</sup> November 2019**
11. Resource person and Guest speaker at a 2-day Training Workshop Organized by RMO **on Building the Next Generation for Early and Mid Career Researchers, with the topic Mentoring Strategies and Institutional Demands 11-12 Feb, 2020**
12. Periodic review of grants proposals and applications coordinated by Research Management Office (RMO), University of Ibadan (2015-date).

### (C) Services And Positions At National And International Levels

1. **Academic Secretary** (Biological Sciences), Nigerian Academy of Science (2022-date)
2. Chairman, Sectional Committee of Biochemistry, Molecular Biology and Biotechnology Sciences of the Nigeria Academy of Science (2019-date)
3. **Public Affairs Secretary**, Nigerian Academy of Science (January 2019-January 2021)
4. Member **Governing Council**, Nigerian Academy of Science (January 2019-2021)
5. Member, Nigeria Academy of Science Prize Committee 2019-
6. Member, Nigeria Academy of Science Lands Committee and Fundraising Committee. 2019-
7. Member, Nigeria Academy of Science Scientific Conference Committee (2019-date)
8. Member, African Academy of Sciences Epidemics and Preparedness Committee (2019-date)
9. Consultant to the Federal Ministry of Health, Nigeria Treatment Research Group (TRG) on Ebola Virus Disease and other Emerging Infectious Diseases- September 2014.
10. Chairman National Summit on *Garcinia kola* organized by Forest Research Institute of Nigeria Ibadan and sponsored Federal Ministry of Environment. 12<sup>th</sup> September, 2014.
11. Consultant and External reviewer of grants for African Academy of Sciences (2015-date)
12. Consultant and External reviewer of grant Proposal for NRF South Africa (2014).
13. Convener and organizer of Local and International Conferences including 2<sup>nd</sup> International Conference of the Society for Free Radical Research- Africa, Reunion, Mauritius (2001).
14. **Co-organizer** 2011 Joint International Research Conference-4<sup>th</sup> Walter Sisulu University International Research Conference, 8<sup>th</sup> International Conference of the Society for Free Radical Research-Africa, 31<sup>st</sup> African Health Sciences Congress, 4<sup>th</sup> International Conference of the Promotion of Traditional Medicine. 17-19<sup>th</sup> August, 2011 hosted by Walter Sisulu University, East London.
15. **Co-organizer** 7th Society for Free Radical Research Africa (SFRR-Africa), 28th African Health Sciences Congress & 4th African Rotavirus Symposium 14 – 17 July 2008, MAURITIUS
16. Active Reviewer of Scientific Articles for Journals in biomedical sciences published by Elsevier, Sage, Taylor and Francis, Pergamon press, Wiley, Springer etc
17. Elected Vice President Society for Free Radical Research (SFRR) - Africa- 2008
18. Editor, Nutritional Antioxidants in Cancer and Degenerative Diseases (2009) *Published by Research Sign Post, Kerala*
19. Foundation Chairman of Editorial Board- Archives of Basic and Applied Medicine Journal
20. Foundation Editor-in-Chief of Toxicology Digest- Official Journal of the West African Society of Toxicology (WASOT).
21. External Examiner College of Medicine and Allied Health Sciences, Freetown, Sierra Leone 2010-2012
22. Adviser to the West African Society of Toxicology (WASOT) (2011-2016).
23. Africa Academy of Science Representative on the Summit on Advancing Sub-Saharan Africa-EU Cooperation in research and innovation for global challenges. Johannesburg, South Africa 10<sup>th</sup> November 2016.
24. External Consultant and Assessor of Professorial candidates in Institutions in Nigeria and abroad

25. External Examiner of undergraduate, Masters and PhD students in Institutions in Nigeria and abroad
26. Chairman NUC Accreditation Team to Veritas University, Abuja, Nile University, Abuja and Uthman Danfodio University, Sokoto- (November 2019).
27. Elected President, Forum of Nigeria Toxicologists (FONTOX) 2020.
28. Biotechnology Society of Nigeria (BSN) Response Committee on COVID-19 (2020).
29. Member Research and Development Subcommittee of the homegrown herbal solution to COVID-19 committee of Oyo state, Nigeria initiative (2020).
30. Member of Jury for Selection of Gold medal award by Nigeria Academy of Science (NAS) (2018-date)
31. Membership of Advisory Committee (MACs) for Chemical Sciences of African Academy of Sciences (2021-date)
32. Member, Nigeria Academy of Science Fellowship Screening and Statutes Committee (2021-)

## 18. Research Focus & Product Development

Over the past 25 years, my research has centered on the Antioxidant and anticarcinogenic modulation of oxidative stress to tissues and molecular (DNA) damage induced by naturally occurring and environmental compounds. Also the role of free radicals and Reactive Oxygen Species (ROS) in the pathology of environmental compounds (food-borne, plant derived and air particulate matters) and prophylactic agents particularly antibiotics and modern antimalarials have formed part of my research.

I have paid particular attention to these compounds and established their interactions with some drug biotransformation enzymes and their ability to induce cellular oxidative stress **using a panel of contemporary biochemical indices and markers of oxidative damage to proteins and lipids (determined by HPLC)**. In addition to using the “comet assay” (Single cell gel electrophoresis technique) and Bone marrow micronuclei induction, I have been able to establish the potential genotoxic (DNA damage) effects of some of these drugs and certain environmental compounds in animals and various cell models using the <sup>32</sup>P post labelling (Bulky carcinogen DNA-adducts). Specifically, the antioxidants and/or anticarcinogenic effects of polyphenols, biflavonoids, isoflavonoids, carotenoids and terpenoids extracted from certain food substances and some African indigenous medicinal plants have been examined in the presence of naturally occurring, therapeutic and environmental toxicants using **spectrophotometric enzyme assays and HPLC analysis**.

Very recently, efforts have been made to elucidate the molecular mechanisms underlying the chemopreventive activities of these compounds focusing on specific signal transduction cascades involving transcription and expression of certain proteins like COX-2, iNOS and HO-1 **determined by Western immuno blot, Electrophoretic Mobility Shift Assay (EMSA) and RT-PCR Techniques**. In addition, transcription factors (NF-kB, AP-1 and Nrf-2) and upstream kinases such as MAP kinases and IP-3K as molecular targets have been my focus. In addition, we have established using Biochemical and Molecular Biology techniques (Western immunoblotting, RT-PCR, EMSA and Flow cytometric analysis) the role and relevance of chemopreventive agents in environmental drug-mediated reproductive dysfunction and male infertility in animal models, PC 12 neuronal cells, Leydig cells and human dopaminergic SH-SY5Y cells.

Results obtained so far verifiable by publications listed indicate that these minor dietary and plant phytochemicals have positive modulating and chemopreventive/chemoprotective effects on the noxious effects of carcinogens by various mechanisms- antioxidants, induction of xenobiotic detoxifying enzymes, metal chelation, scavenging of ROS, attenuation of ROS-induced DNA damage, apoptosis, down-regulation of some transcription factors and stress response proteins and up-regulation of phase 2 antioxidant genes.

For instance, myself and co-authors through series of studies demonstrated for the **first time** the interference of Kolaviron, a bioflavonoid isolated from *Garcinia kola* in iNOS, COX-2 (inflammatory proteins) and NF-kB (transcription factor promoting inflammation) signaling thus elucidating the molecular mechanisms underlying the hepatoprotective effects of kolaviron. In addition, we reported for the **first time** the antiapoptotic activity of Kolaviron in PC12 cells, a rat pheochromocytoma, and human neuroblastoma SH-SY5Y cells exposed to endocrine

disruptor-atrazine. For the **first time**, these results demonstrated unequivocally that Kolaviron blocked Atrazine-mediated nuclear changes associated with apoptosis; including nuclear fragmentation, condensation, DNA laddering, and increased caspase-3 activity. Interestingly Kolaviron, prevented Atrazine-induced changes in the expressions of p53, Bax, Bcl-2, p21, and mRNA levels of caspase-3 and caspase-9. These scientific reports have opened up new therapeutic window in progressive neurodegenerative diseases such as Parkinson's disease

Worthy of note, I and one of my PhD students in collaboration with Cape Peninsular University of Technology, Cape Town, South Africa very recently have been able to identify and characterize using state-of-art spectroscopic techniques (Gas Chromatography Mass Spectrometry (GC-MS) and Liquid Chromatography Mass Spectrometry (LC-MS) for the first time from *Garcinia kola* two novel compounds with chemotherapeutic properties. First, we identified **SQUALENE, a novel antioxidant, anticancer and cholesterol lowering phytochemical from *Garcinia kola* seed.** Second, we identified **RUGULOSIN, which has antibiotic and antimycotic properties and acts as HIV-1 integrase inhibitor.** We have patented these novel compounds from an indigenous Nigerian seed which plays important role in traditional ceremonies and hospitality, eaten as a refreshing past time and occupies prominent position in traditional medicine. It is gratifying to report that our study provided the **first scientific *in vivo* proof** validating the usefulness of kolaviron and, by extension *Garcinia kola*, in viral infection, particularly Influenza A Virus infection. As such kolaviron may be explored clinically as an anti-influenza agent, antioxidant and immunomodulatory regimen during Influenza outbreak as it modulated influenza-derived morbidity and mortality via moderation IAV multiplication, regulation of cytokine dysfunction and aberrant immune response, and functional preservation of the lungs and other extra-pulmonary organs. The data urgently warrants the evaluation of clinical efficacy of *Garcinia kola* seed in healthy and infected individuals with Flu.

Furthermore, I and another PhD student collaborated with international scientists successfully isolated and characterized using spectroscopic methods (1H-NMR, 13C-NMR, MS, UV and IR spectra.) for the first time **Epivernodalol, a Sesquiterpene lactone** from ***Vernonia amygdalina* (bitter leaf)**, which we showed to be effective against HT-144 (skin melanoma) cell line and therefore relevant in **treating skin cancer** amongst other biological values. Additionally, we demonstrated that compounds from *Vernonia amygdalina* owing to intrinsic antioxidant and anti-inflammatory activities have capacity to alleviate gamma irradiation toxicities and as such can play crucial role in cancer patients undergoing radiation therapy.

In totality, my research effort has significant impact in the African socioeconomic development based on novelty, innovation and **implication in translational medicine ('bench to patient bed side')**. The research outcome which led to the isolation, characterization of novel phytochemicals from African indigenous plants such as soybean, red palm oil and especially *Garcinia kola* seed have relevance in disease conditions such as liver disorders, neurodegenerative disease (Parkinson and Alzheimer's) and has translated into clinical trials in treating patients with knee osteoarthritis

*I have successfully initiated and conducted the above research activities alone, with colleagues and with postgraduate students in my laboratory (Molecular Drug Metabolism and Toxicology Research Laboratories, Department of Biochemistry, University of Ibadan) and in collaboration with renowned international scientists in world-class-laboratories in South Africa, Pakistan, India, England, Denmark, Germany, South Korea, Brazil and the USA.*

## 19. Rating As A Scientist And Scholar

- **Top Rated (Best) Nigerian Scientist** following February 2015 edition of Webometric Ranking of Nigerian Scientists according to GSC.
- University of Ibadan of Role of Honor: Researchers with the **highest Research output** in 2017
- **A Research Champion** within the College of Medicine, University of Ibadan- 20 July 2018
- Top 500 Authors by Scholarly output in Nigeria over the period 2014-2019- SciVal Elsevier (**Highly ranked on the list' Top 3%**)
- Listed in the **Top 2% World Ranking of Scientists** by Stanford Univeristy, USA (2020)
- **Ranked No 1 Toxicologist in Nigeria** by Stanford University, USA (2020)
- **Top1% of 45,124 Toxicologists in the** by Stanford University, USA (2020)
- **Ranked Best scientist in University of Ibadan** by AD Scientific Index, Turkey (2021)
- **world**
- **h-index (Google scholar)** 55
- **i10 index (Google scholar)** 205
- **Citations (Scopus)** 5,067
- **Citations (Google scholar)** 12, 700
- **h-index (Scopus)** 44
- **h-index (Web of Science)** 40
- **Research Gate Score RGs-** 38.99
- **h-index (Research gate)** 43
- **Total reads (Research gate)** 54, 430 scholars have read my articles globally

## 20. Landmark Research Accomplishments with Translational Impact

- Influenza A virus (IAV) is an established pathogenic threat to humans, animals and global health with footprints in almost all continents of the world responsible for the seasonal respiratory infections commonly called FLU, characterized by acute respiratory distress syndrome, pulmonary incompetence, mortality and huge economic burden. We demonstrated clearly **for the very first time in vivo that kolaviron prevents influenza virus infection in mice and that it could be explored clinically as anti-influenza and immunomodulatory regimen especially at an early period during Influenza virus outbreak** as it modulated influenza-derived morbidity and mortality via moderation of Influenza virus multiplication, regulation of cytokine dysfunction and aberrant immune response, and functional preservation of the lungs and other extra-pulmonary organs.
- Characterization of a **Sesquiterpene lactone compound, Epivernodalol for the first time from bitter leaf *Vernonia amygdalina* and** demonstrated its potential anticancer property against human skin cancer using the skin melanoma cell line (HT-144).
- We reported for the **first time detailed characterisation of kolaviron as an antioxidant and scavenger of reactive oxygen species** and metal chelator via inhibition of oxidant-induced DNA strand breaks and oxidised purines and pyrimidines (DNA damage).
- We demonstrated for the **first time *in vivo* the chemopreventive and antigenotoxic properties of kolaviron** against specific liver carcinogens commonly found in our environment such as Aflatoxin B<sub>1</sub>
- Our data showed for the **first time that Curcumin** (diferuloylmethane), a yellow colouring agent present in the rhizome of *Curcuma longa* Linn (Zingiberaceae), administration resulted in **enhanced nuclear translocation of NF-E2-related factor 2 (Nrf2) through antioxidant response element (ARE)-directed induction of HO-1** and protected against drug-induced hepatotoxicity.

- Deploying a panel of molecular biology tools, **we showed for the first time in vivo the molecular mechanisms underlying the anti-inflammatory and hepatoprotective properties of kolaviron.**
- Protection of polyphenol-rich fraction of soybean via antioxidant and anti-inflammatory actions against cisplatin-mediated acute toxic injury to the kidney without compromising therapeutic efficacy of the drug. The PhD thesis that emanated from the study was adjudged the best in Basic Medical Sciences in Nigeria Universities by National University Commission (NUC) in the year 2009.
- Characteriation of  $\alpha$ - carotene and  $\beta$ -carotene extracted from red palm oil as free radical scavengers in Azo initiator generated peroxy radical-mediated peroxidation in organic solution and liposomal membrane. **This is the first study to show that  $\alpha$ -carotene abundantly present in red palm oil is a better antioxidant than  $\beta$ -carotene** in both models.
- Our study reported for the **first time the antiapoptotic activity of Kolaviron in PC12 cells, a rat pheochromocytoma**, exposed to endocrine disruptor-atrazine, which established the therapeutic potential against chemical-induced apoptotic cell death in the neuronal system.
- We showed **for the first time in human neuroblastoma SH-SY5Y cells the therapeutic intervention of kolaviron** in Atrazine-mediated cytotoxicity. Specifically, for the first time our results demonstrated unequivocally that Kolaviron blocked Atrazine-mediated nuclear changes associated with apoptosis; including nuclear fragmentation, condensation, DNA laddering, and increased caspase-3 activity. Interestingly Kolaviron, prevented Atrazine-induced changes in the expressions of p53, Bax, Bcl-2, p21, and mRNA levels of caspase-3 and caspase-9. These data have opened up a new therapeutic window in progressive neurodegenerative diseases such as Parkinson's disease.
- In *Drosophila melanogaster*, we reported the first evidence of the lifespan extension property of Kolaviron and its chemoprotective role in rotenone-induced neuronal damage
- We reported for the **first time the ability of kolaviron to rescue striatal neuronal damage and redoinflammation** in murine model of Parkinson Disease.
- Air pollution caused by diesel engine exhaust is a potential environmental risk factor for human health. Diesel exhaust particles (DEP) have a diverse mixture of chemicals including various polycyclic aromatic hydrocarbons (PAHs), and nitrated PAHs. We reported the genotoxic effect of oral administration of DEP using markers of DNA damage, mutations and repair, in the lung of Big Blue® rats. **Our data showed for the first time that the lung is a sensitive target organ for primary DNA damage following oral exposure to DEP.**
- We reported for the **first time the genotoxicity of chloroquine** via generation of ROS in rat liver cells using the alkaline comet assay.
- Elucidation of the molecular mechanisms of chemoprevention with 6-Gingerol in ulcerative colitis and colorectal cancer.
- Association of Heavy metal accumulation with alteration in the antioxidant enzymes of the African cat fish (*Clarias gariepinus*) and induction of lipid peroxidation which provided a rational use of biomarkers of oxidative stress in biomonitoring of aquatic pollution. **This work reported has received over 700 citations and remains a reference paper for most researchers worldwide in Aquatic toxicology.**
- Induction of transcriptional changes in steroidogenesis marker genes in primary cultures of rat Leydig cells by Atrazine.

- Induction of Testicular pathology by Nigrostriatal lesioning in rotenone rat model of Parkinson disease-Fresh evidence connecting **Parkinson disease with spermatozoa and testicular dysfunction.**

## 21. Dissertation And Theses

- (i) Effect of chloroquine on the level of reduced blood glutathione  
*B.Sc Project, 1987*
- (ii) On the mechanism of aflatoxin B<sub>1</sub>-induced hepatotoxicity: Implication of the glutathione detoxification pathway  
*M.Sc Dissertation, 1989*
- (iii) Modulatory effect of browned yam flour diet on chemically-induced toxicity in the rat  
*Ph.D Thesis, 1995*

## 22. Notable and Key Distinguished Lectures

1. Olumbe Bassir Memorial Distinguished Lecture (2010 and 2015)
2. Univeristy Inaugural Lecture (2016)
3. Professor Horatio Oritsejolomi-Thomas Distinguished Lecture (2017)
4. College of Health Sciences, Osun State University, Osogbo Annual Lecture (2019)
5. Founder's Day Award Ceremoiny Lecture at Precious Cornerstone Univeristy, Ibadan (2019)
6. Nigerian Academy of Science (NAS) Public lecture (2021)
7. University of Ibadan University Lecture (2021)

## 23. Publications

### Inaugural Lecture

1. **E.O. Farombi** (2016). Chemopreventives: Untapped Genii that Compromise the Science of the “Killers”. *University of Ibadan Inaugural Lecture, March 3<sup>rd</sup>, 2016. ISBN: 978-978-952-814-1; 96 Pages*

### University lecture

2. **E.O. Farombi** (2021). From Bench to Bedside and Beyond: Building Capacity in Translational Research 43<sup>rd</sup> *University of Ibadan Lecture Series, April 8<sup>th</sup>, 2021. ISBN: 978-978-8550-16-7; 107 Pages*

### Book Edited

3. "Nutritional Antioxidants in Cancer and Degenerative Diseases (2009). **Editor, E. Olatunde Farombi**, *Published by Research Sign Post, Kerala ISBN 978-81-7895-423-3.*

### Patent

4. AA Oyabgemi, D. Bester, J. Esterhuyse, **E.O. Farombi** (2020). Extraction and identification of novel compounds from *Garcinia kola* extracts. *Patents and Designs Act; Certificate of Patent N0: 007564*

### Chapters in Books

5. **E.O Farombi** (2003). Locally Derived Natural Antioxidant Substances in Nigeria: Potential Role as New Chemotherapeutic Agents. In: *Molecular and Therapeutic Aspects of Redox Biochemistry Edited by Theeshan Bahorun and Ameenah Gurib-Fakim (OICA International (UK) limited, London, ISBN 1903063 01-9) Chpt. 16, 207-226.*
6. **E.O. Farombi.**, and Tanaka, T (2007) Cancer chemoprevention with Zingiberaceae and citrus-derived phytochemicals: Biochemical and molecular mechanisms. *In Cancer: Disease Progression and Chemoprevention. Edited by Takuji Tanaka, Research Sign Post, Kerala, India; Chapter 10 Pg 167-183; ISBN: 81-308-0150-7 (India)*
7. **E.O. Farombi** (2009) Biochemical and Molecular Mechanisms of Hepatoprotection by Kolaviron, a natural antioxidant biflavonoid from *Garcinia kola* seed *in "Nutritional Antioxidants in Cancer and Degenerative Diseases Research Sign Post, Kerala; ISBN 978-81-7895-423-3*
8. A.C. Akinmoladun, O.A. Adesanoye, I A. Adedara, E M. Obuotor **E. O. Farombi** (2009) Chemopreventive properties of *Hibiscus sabdariffa* l. (roselle) *In "Nutritional Antioxidants in Cancer and Degenerative Diseases Research Sign Post, Kerala; ISBN 978-81-7895-423-3*
9. S.O. Abarikwu, I A. Adedara., O. Owoeye., T Tanaka **E. O. Farombi** (2009) Silibinin and Silymarin from milk thistle: Bioefficacy, hepatoprotection & chemopreventive potentials *In "Nutritional Antioxidants in Cancer and Degenerative Diseases Research Sign Post, Kerala; ISBN 978-81-7895-423-3*
10. A. A. Oyagbemi and **E.O. Farombi** (2009). Role of Selected Antioxidative Chemopreventive Agents in Cancer *In "Nutritional Antioxidants in Cancer and Degenerative Diseases Research Sign Post, Kerala; ISBN 978-81-7895-423-3*

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64. **E.O. Farombi**, (2020). Recent Advances in natural product biotechnology: Novel antioxidant phytochemicals as new chemopreventve agents. *1<sup>st</sup> Annual symposium and workshop on Recent Advances in Biotehchnology organized by th Precious Corverstone University, Ibadan, 24-26 February 2020*
65. **E.O. Farombi**, (2020). Grantsmanship. *Inaugural Toxicology conference of the Forum of Nigerian Toxicologists (FONTOX), University of Ibadan, Nigeria, 11-12 March 2020*
66. **E.O. Farombi**, (2021). Kolaviron and Diphenyl diselenide protection against Neurotoxicity of Vanadium and Manganese in Rat and Drosophila Melanogaster models. *16<sup>th</sup> International Symposium on Metal ions in Biology and Medicine- Emphasis on Public Health and Sharing Best Practices around Covid-19 Pandemic 30<sup>th</sup> November -1<sup>st</sup> December 2021, Nehru Science Center, Mumbai, India*
67. **E.O. Farombi**, (2021). Invigorating Basic Medical Education and Scientific Research. *2021 Joint Basic Medical and Basic Clinical Sciences Faculty, LASUCOM, 7th December 2021*

## 24. Selected International /National Conferences and Workshops Attended

1. 658<sup>th</sup> Meeting of Biochemical Society (UK); Liverpool, 16-19<sup>th</sup> April, 1996
2. Workshop on Biochemical Pathway in parasites of medical importance sponsored by the WHO special programme for Research and Training in Tropical Diseases. 14-16<sup>th</sup> January, 1998, University of CapeTown, South Africa (**Invited Speaker**).
3. 38<sup>th</sup> Annual congress of the Federation of South African Societies of Pathology in association with the Society for Free Radical Research. 28<sup>th</sup> June-1<sup>st</sup> July, 1998, University of Pretoria, South Africa (**Invited Speaker**).
4. 2<sup>nd</sup> International congress of the Federation of African Societies of Biochemistry and Molecular Biology, 30<sup>th</sup> Sept- 3<sup>rd</sup> Oct, 1998, Potchefstroom University for Christian Education, Potchefstroom, South Africa. (**Invited Speaker**)
5. 3<sup>rd</sup> International conference of the Pan-African Environmental Mutagen Society (PAEMS) on Susceptibility to Environmental Mutagens: Molecular, Epidemiological and Public health aspects 1-5<sup>th</sup> March, 1999, Harare, Zimbabwe. (**Invited Speaker**)
6. 6<sup>th</sup> Alexander Holleander International Workshop on Research Design for genetic Toxicology Studies at Sheraton Hotel, 1<sup>st</sup> March, 1999, Harare, Zimbabwe.
7. 2<sup>nd</sup> International conference of the Society for Free Radical Research (SFRR-Africa) on Molecular mechanisms and therapeutic interventions in cancer, cardiovascular diseases and infectious diseases 15<sup>th</sup> – 19<sup>th</sup> July, 2001, University of Mauritius, Reduit Mauritius (**Invited Speaker**).
8. HIV/AIDS, Cancer and Parasitic infectious diseases workshop sponsored by the Global Initiative for AIDS Nutritional Therapy (GIANT) at Larbourdonnais Caudian Waterfront Hotel, Port Loius 15<sup>th</sup> July, 2001.
9. Workshop on Toxicological Evaluation of Certain Antimalarial Extracts from Nigerian Phytomedicine Compendium, 28-29<sup>th</sup> October 2003 at Institute for Medical Research and Training. (IMRAT), College of Medicine, University of Ibadan, Nigeria. (**Invited Speaker**).
10. 4<sup>th</sup> International Congress of the Federation of African Societies of Biochemistry and Molecular Biology (FASBMB), in collaboration with the International Union of Biochemistry and Molecular Biology (IUBMB) 25<sup>th</sup>-28<sup>th</sup> November, 2003, Cameroon, hosted by the Cameroon Society of Biochemistry and Molecular Biology (**Invited Plenary Speaker**).
11. 15<sup>th</sup> Korean Society of Molecular Cancer research (KSMCR) Summer Conference at Keum-Ho Seolack Resort, kangwon-do, South Korea, 26-27<sup>th</sup> August 2005.
12. 2<sup>nd</sup> Integrated Symposium on NutriGenomics and Clinomics organized by the Ajou Genomic Research Centre for Gastroenterology, Ajou Hall, Ajou University Medical Centre, Suwon, Korea, 31<sup>st</sup> August 2005.
13. 2005 International Conference of the Korean Society of Cancer Prevention on Smoking Related carcinogenesis and Chemoprevention sponsored by the Korean Ministry of Health and Welfare, Society of

- Non-Smoking Guide, Pulmuwon and 3GC CARE Corporations, Gemma Hall, College of Pharmacy, Sookmyung Women's University, South Korea, September 10<sup>th</sup>, 2005.
14. 2005 National Institute of Toxicological Research International Conference organized by the Korea Institute of Toxicological Research. October 10-12<sup>th</sup> 2005, Seoul, South Korea.
  15. The 7<sup>th</sup> Korea-Japan Joint Conference on Cancer and Ageing Research organized by the Aging and Apoptosis Research Centre, Korea. Nov 3<sup>rd</sup>-5<sup>th</sup> 2005. Muju Island Korea.
  16. 2005 Annual Meeting of Korean Society for Free Radical Research, Nov 25<sup>th</sup> 2005, Seoul, Korea.
  17. Convention of the Pharmaceutical Society of Korea, Seoul Education Culture Centre, Seoul, South Korea Nov 28- 29<sup>th</sup> 2005. **Chair of a scientific session**-Cellular Signalling Network Regulating Inflammation: A prime target for disease prevention and therapy.
  18. 5<sup>th</sup> Congress of the Federation of African Societies of Biochemistry and Molecular Biology (FASBMB). Health and Wealth for Africa through Biochemistry and Molecular Biology 21<sup>st</sup> to 24<sup>th</sup> November 2006, Sheraton Abuja, Nigeria. (**Invited Plenary Lecturer and Chair of a Scientific Session**)
  19. 7th Society for Free Radical Research Africa (SFRR-Africa), 28th African Health Sciences Congress & 4th African Rotavirus Symposium 14 – 17 July 2008, MAURITIUS (**Invited Plenary Speaker**)
  20. Sixth International Symposium on Recent Advances in Environmental Health Research – September 13-16, 2009 Marriott Hotel, Jackson, Mississippi, USA (**Invited Distinguished Plenary Speaker**)
  21. Seventh International Symposium on Recent Advances in Environmental Health Research – September 12-15, 2010 Marriott Hotel, Jackson, Mississippi, USA. (**Invited Distinguished Plenary Speaker**)
  22. Nigerian Society of Biochemistry and Molecular Biology Conference, October 24<sup>th</sup>- 27<sup>th</sup> 2010, Aliero, Kebbi State. (**Invited Olumbe Bassir Memorial Guest Lecturer**)
  23. Grantsmanship and Responsible Conduct of Research Workshop -Medical Education Partnership Initiative in Nigeria (MEPIN) facilitated by North Western University, Chicago, USA. 8<sup>th</sup>-10<sup>th</sup>; 13<sup>th</sup>-15<sup>th</sup>, June, 2011.
  24. 2011 Joint International Research Conference-4<sup>th</sup> Walter Sisulu University International Research Conference, 8<sup>th</sup> International Conference of the Society for Free Radical Research-Africa, 31<sup>st</sup> African Health Sciences Congress, 4<sup>th</sup> International Conference of the Promotion of Traditional Medicine. 17-19<sup>th</sup> August, 2011 hosted by Walter Sisulu University at International Convention Centre, East London, Eastern Cape, South Africa. (**Invited Guest Speaker**)
  25. 1<sup>st</sup> West Africa Society of Toxicology (WASOT) in Collaboration with Society of Environmental Toxicology and Chemistry (SETAC), 8<sup>th</sup> February, 2012, University of Benin, Nigeria (**Key Note Lecturer**)
  26. The 8<sup>th</sup> Congress of Toxicology in Developing Countries (8-CTDC), September 10-13, 2012, Centara Grand at Central Plaza Ladprao, Bangkok, Thailand “Sharing Toxicological Knowledge for Healthy Life & Environment” organized by the Thai Society of Toxicology under the auspices of the International union of Toxicology (IUTOX). (**Invited Plenary Speaker, IUTOX Nominee for African Continent**)
  27. Ninth International symposium on recent advances in Environmental health Research-September 16-19<sup>th</sup>, 2012, Marriott Hotel, Jackson, Mississippi, USA. (**Invited Distinguished Plenary Speaker**)

28. Tenth International symposium on recent advances in Environmental health Research-September 16-19<sup>th</sup>, 2013, Marriott Hotel, Jackson, Mississippi, USA. (**Invited Distinguished Plenary Speaker**)
29. 33rd Scientific Conference of Physiological Society of Nigeria, February 12-15, 2014, International Conference center, University of Ibadan. (**Key Note Lecturer**)
30. 3<sup>rd</sup> West African Society of Toxicology (WASOT) Conference at University of Lagos, Akoka, Nigeria. 19-22 February 2014 (**Platform speaker**)
31. Eleventh International symposium on recent advances in Environmental health Research-September 14-19<sup>th</sup>, 2014, Jackson Convention Center & Marriott Hotel, Jackson, Mississippi, USA. (**Invited Distinguished Plenary Speaker**)
32. 9<sup>th</sup> International Conference of the Society for Free Radical Research-Africa (SFRR-Africa) July 27-29, 2015, Hennessy Park Hotel, Mauritius (**Plenary Speaker**)
33. Twelfth International symposium on recent advances in Environmental health Research-September 14-19<sup>th</sup>, 2015, Marriott Hotel, Jackson, Mississippi, USA (**Invited Distinguished Plenary Speaker**)
34. Symposium on Exploring Traditional Medicine organized by Chinese Academy of Chinese Medical Sciences (CACMS) and hosted by Inter Academy Medical Panel (IAMP) and Chinese Academy of Engineering (CAE), 23-24 September 2015 Beijing, China (**Invited Speaker and Representative of Nigerian Academy of Science**)
35. Olumbe Bassir Memorial Annual Lecture, 34<sup>th</sup> Nigerian Society of Biochemistry and Molecular Biology Conference and 10<sup>th</sup> FASBMB Conference, November 2<sup>nd</sup> - 6<sup>th</sup> 2015, Minna, Niger State. (**Invited Olumbe Bassir Memorial Guest Lecturer**)
36. Thirteenth International symposium on recent advances in Environmental health Research-September 11-14<sup>th</sup>, 2016, Marriott Hotel, Jackson, Mississippi, USA (**Invited Distinguished Plenary Speaker**)
37. 12<sup>th</sup> Annual Meeting of African Science Academies (AMASA) on Poverty Reduction, Garden Court OR Tambo International Hotel, Johannesburg, South Africa, 6<sup>th</sup>-8<sup>th</sup> November 2016. (**Invited Fellow and Representative of African Academy of Sciences (AAS)**)
38. 12<sup>th</sup> Network of African Science Academies (NASAC) General Assembly Meeting, Johannesburg, South Africa 9<sup>th</sup> November 2016 (**Invited Fellow and Representative of African Academy of Sciences (AAS)**)
39. CAAST-Net Plus Science Academies Workshop on Advancing Sub-Saharan Africa-EU Cooperation in research and innovation for global challenges. Johannesburg, South Africa 10<sup>th</sup> November 2016 (**Invited Fellow and Representative of African Academy of Sciences (AAS)**)
40. Fourteenth International symposium on recent advances in Environmental health Research-September 11-14<sup>th</sup>, 2017, Marriott Hotel, Jackson, Mississippi, USA (**Invited Distinguished Plenary Speaker**)
41. Faculty of Science International Conference, Lagos State University (LASU), Ojoo, Lagos. 11-13 October, 2017. (**Invited Guest Speaker**)

42. 36<sup>th</sup> Nigerian Society of Biochemistry and Molecular Biology Conference, November 13<sup>th</sup> - 17<sup>th</sup> 2017, Uyo, Akwa Ibom State. **(Key Note Lecturer)**
43. 5<sup>th</sup> International Conference on Environmental Health Science (CEHS), University of Ibadan, Ibadan, Nigeria. 21-24 November 2017 **(Invited Plenary Speaker)**
44. 6<sup>th</sup> Annual Conference of the School of Sciences, Federal University of Technology, Akure, 26<sup>th</sup> June 2018. **(Invited Plenary Speaker)**
45. Evidence uptake workshop on pathways to entrenching an Evidence Informed Decision Making (EIDM) culture, organized by the African Institute for Development Policy (AFIDEP) May 22-24<sup>th</sup> 2019, Eka Hotel, Nairobi, Kenya. **(Representative of the African Academy of Sciences, AAS)**
46. American Association for Cancer Research (AACR) Special Conference on Environmental Carcinogenesis: Potential Pathway to Cancer Prevention. June 22-24, 2019, The Westin Charlotte, Charlotte, NC, USA.
47. 2019 Annual Lecture organised by the College of Health Sciences, Osun State University, Osogbo on Collaborative Research: A Tool in Attaining The SDGs in a Resource-Constrained Settings, 8<sup>th</sup> August 2019 **(Invited Guest Lecturer)**
48. 2019 Founder's day Award Ceremony Lecture: Challenges and Future of Private Universities in Nigeria at Precious Cornerstone University, Ibadan 11<sup>th</sup> November, 2019 (Guest Speaker)
49. 8<sup>th</sup> Annual General Meeting & Scientific Conference of Faculty of Basic Medical Sciences, College of Medicine, UNILAG, 3<sup>rd</sup> October 2019 **(Key Note Lecturer)**
50. 2<sup>ND</sup> International Conference on Neurovascular and Neurodegenerative Diseases. 28-30<sup>th</sup> October 2019; Paris Marriott Charles de Gaulle Airport Hotel, Roissy en France, Paris, France **(Speaker)**
51. 1<sup>st</sup> Annual symposium and workshop on Recent Advances in Biotechnology organized by th Precious Corverstone University, Ibadan, 24-26 February 2020 **(Invited Guest speaker)**
52. Inaugural Toxicology conference of the Forum of Nigerian Toxicologists (FONTOX), University of Ibadan, Nigeria, 11-12 March 2020 **(Speaker)**
53. 2<sup>nd</sup> Nigerian Academy of Science (NAS) Conference, January 26-27, 2021 (Virtual Conference) **(Chairman of a Scientific session)**
54. Public Lecture delivered at the Induction Ceremony of New Fellows of the Nigerian Academy of Science titled **"Science Medicine and the Society: The Three Intricate Nexus in the Development of Therapeutic Signatures"** at Reiz Continetal Hotel, Plot 779, Cadastral Zone, Abuja; 20<sup>th</sup> May 2021
55. 16<sup>th</sup> International Symposium on Metal ions in Biology and Medicine- Emphasis on Public Health and Sharing Best Practices around Covid-19 Pandemic 30<sup>th</sup> November -1<sup>st</sup> December 2021, Nehru Science Center, Mumbai, India. **(Invited Plenary Speaker)**
56. 2021 Joint Basic Medical and Basic Clinical Sciences Faculty, LASUCOM, 7th December 2021 **(Key Note Lecturer)**