

CURRICULUM VITAE

PERSONAL DATA

Surname: Ajayi

Other Name: Gabriel Olukayode

Place of Birth: Onigbongbo-Maryland, Lagos

Date of Birth: March 15th, 1962

Home Address: No. 8, Kayode Ajayi Crescent, Itele-Andu, Maya-Ikorodu, Lagos State, Nigeria

Present Postal Address: Department of Biochemistry, College of Basic and Applied Sciences, Mountain Top University, Prayer City, Ibafo, Ogun State, Nigeria

Sex: Male

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Research Links: www.researchgate.net/profile/G_Ajayi/research

https://scholar.google.com/citations?view_op=list_works&hl=en&user=S_XhaKMAAAAJ

<https://orcid.org/0000-0001-7725-7398>

Nationality at Birth: Nigeria

State of Origin/Local Government Area: Lagos State/Ikeja

Marital Status: Married

Number and Ages of Children: 3 (29, 24 and 21 years)

EDUCATION

Federal University of Agriculture, Abeokuta, Ogun State, Nigeria	2005-2014
University of Lagos, Lagos, Nigeria	1994-1995
University of Lagos, Lagos, Nigeria	1985-1989

ACADEMIC QUALIFICATIONS

Ph.D. Biochemistry (FUNAAB)	2014
M.Sc. Biochemistry (Lagos)	1995
B.Sc. (Hons.) Biochemistry (Lagos)	1989

PROFESSIONAL QUALIFICATIONS/CERTIFICATIONS

Associate (animn) awarded by National Institute of Marketing of Nigeria	2016
Chartered Postgraduate Diploma in Marketing awarded by National Institute of Marketing of Nigeria	2015
Associate (AIBMS) awarded by Institute of Biomedical Science, U.K.	1998

TRAINING PROGRAMMES ATTENDED

Capacity Building (MasterClass) Effective Grantsmanship Workshop <i>organized by</i> CRIC, Mountain Top University	August 2023
Workshop and Symposium on Developing Strategy, Policies and Quality Assurance Structures for Open and Distance Learning (ODL) Centres at National Universities Commission (NUC), Abuja <i>organized by</i> the University of London.	March, 2023
Workshop on Design, Development and Adaptation of Course Materials for Open and Blended Learning <i>organized by</i> the Regional training and Research Institute for Distance Learning (RETRIDOL) in collaboration with the Commonwealth of Learning (COL)	February 2023
Workshop on Overview of Open and Distance Learning for Mountain Top University <i>organized by</i> the Regional training and Research Institute for Distance Learning (RETRIDOL) in collaboration with the Commonwealth of Learning (COL)	August 2022
Capacity Building Workshop on 21 st Century University Curriculum Review in Mountain Top University <i>organized by</i> the Academic Planning Unit, Mountain Top University.	21 st January, 2022
Institute for National Transformation (Module 1) Training on Strengthening the Leadership Capacities of various Leaders at MTU <i>organized by</i> Mountain Top University, Prayer City, Ibafo, Ogun State, Nigeria	2021
TETFUND ICDL ICT in Education (Intermediate Module) Training <i>organized by</i> Lagos State University, Ojo, Lagos, Nigeria	2020
Drug Development 101 <i>organized by</i> American College of Toxicology, Florida, USA	2019
Academic Leadership Training <i>organized by</i> Lagos State University College of Medicine (LASUCOM), Ikeja, Lagos, Nigeria	2017
Public Analyst Training <i>organized by</i> institute of Public Analyst of Nigeria (IPAN)	2017
Leadership Training <i>organized by</i> Academic Staff Union of Universities, LASU Branch	2017
18th Founder's Day /Anniversary Symposium: Universities, their Colleges of Medicine, the University Teaching Hospital – rendering	

towards global brands for world class status <i>organized by</i> Lagos State University College of Medicine	2017
Quality Assurance Workshop for Academics on Quality Standards for Teaching, Research and Community Engagement <i>organized by</i> Lagos State University, Ojo, Lagos, Nigeria	2017
Molecular Biology Hands On Training <i>organized by</i> Covenant University, Ota, Ogun State, Nigeria	2016
Presentation, Ethics and Tools for University Teaching Training <i>organized by</i> Lagos State University, Ojo, Lagos, Nigeria	2011
Research Methodology Training <i>organized by</i> Faculty of Clinical Sciences, Lagos State University College of Medicine (LASUCOM), Ikeja, Lagos, Nigeria	2011
Research Proposal Writing Training <i>organized by</i> Centre for Management Development, Magodo, Lagos, Nigeria	2008
Information and Communication - ICT Capacity Building for Academics <i>organized by</i> Education Trust Fund (ETF) at University of Agriculture (UNAAB), Abeokuta, Ogun State, Nigeria	2005

HONOURS, DISTINCTIONS AND MEMBERSHIP OF LEARNED PROFESSIONAL BODIES/SOCIETIES

Member (Full Member) - Nigerian Society of Experimental Biology	2021
Member (Full Member) - Biochemical Society, UK	2018
Member (Full Member) - American Society of Biochemistry and Molecular Biology, USA	2018
Member (Associate Member) - National Institute of Marketing of Nigeria	2016
Member (Full Member) - Nigerian Society of Biochemistry and Molecular Biology	2006
Member (Full Member) - Federation of African Societies of Biochemistry and Molecular Biology	2006
Member (Associate Member) - Institute of Biomedical Science, UK	1998
Member (Full Member) - Nigerian Institute of Food Science and Technology (NIFST)	1998

SCHOLARSHIPS, GRANTS AND AWARDS

Lagos State University College of Medicine Research Grant Award	2020
Lagos State University College of Medicine Travel Grant for International Conference	2019

Lagos State University College of Medicine Letter of Appreciation for having 100% Results in Biochemistry as HOD in the 1 st Professional MBBS/BDS Examinations (1 st and only time)	2017
Lagos State University College of Medicine Travel Award for Conference	2016
Lagos State University College of Medicine Ph.D. Thesis Support Grant	2014
Department of Medical Biochemistry, LASUCOM Staff Merit Award	2007
Department of Biochemistry, College of Medicine, University of Lagos M.Sc. Thesis Support Award	1995
Livestock Feeds Nigeria Plc M.Sc. Project Support Grant	1995
Igogo Commercial High School, Igogo-Ekiti 2nd Best in Mathematics Award	1979

WORK EXPERIENCE IN THE UNIVERSITY

Professor of Biochemistry , Department of Biochemistry, College of Basic and Applied Sciences, Mountain Top University, Prayer City, Ibafo Ogun State, Nigeria	2022-Date
Professor of Biochemistry , Department of Biological Sciences, College of Basic and Applied Sciences, Mountain Top University, Prayer City, Ibafo, Ogun State, Nigeria	2021-2022
Senior Lecturer , Department of Medical Biochemistry, Lagos State University College of Medicine, Ikeja, Lagos, Nigeria	2014-2021
Adjunct Senior Lecturer , Department of Biological Sciences, College of Basic and Applied Sciences, Mountain Top University	2019-2021
Senior Lecturer , Department of Biological Sciences, College of Basic and Applied Sciences, Mountain Top University (Sabbatical Leave)	2018-2019
Adjunct Lecturer , Department of Biochemistry, College of Natural Sciences, McPherson University, Seriki-Sotayo, Ogun State, Nigeria	2015-2017
Lecturer I , Department of Medical Biochemistry, Lagos State University College of Medicine, Ikeja, Lagos, Nigeria	2009-2014
Lecturer II , Department of Medical Biochemistry, Lagos State University College of Medicine, Ikeja, Lagos, Nigeria	2006-2009
Assistant Lecturer , Department of Medical Biochemistry, Lagos State University College of Medicine, Ikeja, Lagos, Nigeria	2001-2006

TEACHING AND RESEARCH EXPERIENCE

Professor: *Departments of Biochemistry & Biological Sciences, Mountain Top University, Prayer City, Ibafo, Ogun State, Nigeria. November 2021 – Date*

- Design and supervision of research projects for undergraduate and postgraduate students
- Teaching postgraduate Biochemistry students courses such as (i) Advanced Macromolecular Biochemistry and Intermediary metabolism (BCH 802), (ii) Environmental and Biochemical Toxicology (BCH 810), (iii) Clinical Biochemistry (BCH 814), (iv) Micromolecular Biochemistry (BCH 801), (v) Biochemical Pharmacology (BCH 819)
- Teaching the undergraduate Biochemistry students courses such as (i) Enzymology (BCH 301), (ii) Advanced Enzymology (BCH 401), (iii) Pharmaceutical Biochemistry (BCH 407), (iv) Food and Nutritional Biochemistry (BCH 417), (v) Bioenergetics (BCH 421), (vi) Bioorganic Chemistry (BCH 418)

Senior Lecturer: *Department of Medical Biochemistry, Lagos State University College of Medicine, Ikeja, Lagos, Nigeria. October 2014 – November 2021*

- Design and supervision of research projects for undergraduate and postgraduate students
- Principal Investigator in the research titled: Antioxidant activities and cytotoxic effects of *Allium fistulosum* L. extracts: Implications for anticancer potential (with Research Grant)
- Teaching postgraduate Biochemistry students:
M.Sc. courses taught include (i) Biochemistry of Macromolecules (MDB 801), (ii) Advanced Enzymology (MDB 804), (iii) Experimental Biochemistry (MDB 806), (iv) Biomembranes (MDB 808), (v) Immunology (MDB 809), (vi) Diagnostic Biochemistry (MDB 810), (vii) Biochemical Toxicology (MDB 813), (viii) Biochemistry of Parasites (MDB 813), (ix) Biochemical Basis of Nutrition and Metabolic Diseases (MDB 822), (x) Molecular Basis of Cell Biology (MDB 819)
PGD courses taught include (i) Chemistry and Metabolism of Carbohydrates and Lipids (MDB 702), (ii) Structures and Functions of Macromolecules, (iii) Nutritional Biochemistry (MDB 705), (iv) Enzymology (MDB 707), (v) Clinical Biochemistry (MDB 708), (vi) Research and Biochemical Instrumentation (MDB 711), (vii) Experimental Biochemistry (MDB 712), (viii) Xenobiochemistry and Drug Metabolism (MDB 713)
- Teaching the undergraduate degree programmes, BNSc. (Nursing), B.Sc. (Physiology) and B.Sc. (Pharmacology) courses such as (i) General Biochemistry I & II and Enzymology

- Teaching the Medical (MBBS) and Dental (BDS) degrees students courses in General Biochemistry and Special Topics such as Chemistry and Metabolism of Carbohydrates, Metabolic Integration, In-Born Errors of Metabolism, Mineral Metabolism, Tissue Biochemistry, Endocrinology, Microbes and Malaria, and Neurobiochemistry
- Students' Adviser: providing mentorship and counseling to Medical and Dental students
- Setting questions, grading of scripts and collation of results

Adjunct Senior Lecturer: *Department of Biological Sciences, College of Basic and Applied Sciences, Mountain Top University* November 2019 – May 2021

- Teaching the undergraduate students of Biochemistry courses which include: (i) Enzymology (BCH 301), (ii) Advanced Enzymology (BCH 401), (iii) Food and Nutritional Biochemistry (BCH 417)
- Setting questions, grading of scripts and collation of results

Senior Lecturer: *Department of Biological Sciences, College of Basic and Applied Sciences, Mountain Top University (Sabbatical Leave)* October 2018 – September 2019

- Design and supervision of research projects for undergraduate Biochemistry students
- Assisted in the development of postgraduate curriculum in Biochemistry
- Teaching the undergraduate students of Biochemistry courses which include: (i) Enzymology (BCH 301), (ii) Advanced Enzymology (BCH 401), (iii) Pharmaceutical Biochemistry (BCH 404), (iv) Biochemical Reasoning (BCH 408), (v) Tissue Biochemistry (BCH 411), (vi) Plant Biochemistry (BCH 413), (vii) Food and Nutritional Biochemistry (BCH 417), (viii) Bioorganic Chemistry (BCH 418), (ix) Biotechnology and Genetic Engineering (BCH 420) and (x) Bioenergetics (BCH 421)
- Assisted in the setting up of Animal House for research
- Students' Adviser: providing mentorship and counseling to Medical and Dental students
- Setting questions, grading of scripts and collation of results

Adjunct Lecturer: *Department of Biochemistry, College of Natural Sciences, McPherson University, Seriki-Sotayo, Ogun State, Nigeria.* October 2015 – June 2017

- Design and supervision of research projects for undergraduate Biochemistry students

- Teaching the undergraduate students of Biochemistry 300 and 400 levels courses which include: (i) Chemistry and Metabolism of Lipids, (ii) Introduction to Enzymology, (iii) Advanced Enzymology, and (iv) Food and Nutritional Biochemistry
- Setting questions and grading of scripts

Lecturer I: *Department of Medical Biochemistry, Lagos State University College of Medicine, Ikeja, Lagos, Nigeria.* *October 2009 – September 2014*

- Teaching the Medical (MBBS) and Dental (BDS) degrees students courses in General Biochemistry and some Special Topics such as Chemistry and Metabolism of Carbohydrates, Metabolic Integration, In-Born Errors of Metabolism, Mineral Metabolism, Tissue Biochemistry, Vitamins, Coenzymes and Co-factors, Enzymology
- Students' Adviser: providing mentorship and counseling to Medical and Dental students
- Setting questions, grading of scripts and collation of results

Lecturer II: *Department of Medical Biochemistry, Lagos State University College of Medicine, Ikeja, Lagos, Nigeria.* *October 2006 – September 2009*

- Teaching the Medical (MBBS degree) students courses in General Biochemistry and Topics such as Chemistry and Metabolism of Carbohydrates, Metabolic Integration, In-Born Errors of Metabolism, Mineral Metabolism, Tissue Biochemistry, Vitamins, Coenzymes and Co-factors, Enzymology
- Students' Adviser: providing mentorship and counseling to Medical and Dental students
- Setting questions, grading of scripts and collation of results

Assistant Lecturer: *Department of Medical Biochemistry, Lagos State University College of Medicine, Ikeja, Lagos, Nigeria.* *January 2, 2001 – September 2006*

- Teaching the Medical (MBBS degree) students courses such as: Introduction to Biochemistry, Experimental Biochemistry and Biochemical Analytical Methods
- Setting questions, grading of scripts and collation of results

ADMINISTRATIVE AND MANAGERIAL EXPERIENCE

1. Mountain Top University

Department

- Chairman, Curriculum Development Committee
2021-Date
- Head of Unit, Biochemistry, Department of Biological Sciences
2018-2019
- Member, Animal House Committee
2018-2019

College of Basic & Applied Sciences (CBAS)

- Chairman, CBAS Conference 2023
2023
- Chairman, College Curriculum Development Committee
2022-Date
- Member, College Postgraduate Board
2021
- Chairman, LOC, MTU-NISEB Conference 2022
2021-2022
- Member, College Appointment & Promotion Committee
2021-Date
- Member, College Board
2018-Date

University

- Dean, School of Postgraduate Studies
2023-Date
- Director, Open & Distance Learning (ODL)
2022-2023
- Chairman, Academic/Senior Staff Disciplinary Committee
2023-Date
- Chairman, University Scholarship Committee
2021-Date
- Chairman, 2021 Convocation Monitoring Committee
2021
- Chairman, Community Service Committee
2018-2019
- Member, Committee to Review Academic Structure of Undergraduate
Programmes under the Centre for Continue Education (CCE)
2023
- Member, MTU Mock Accreditation Team
2022-Date
- Member, Committee on Sustenance of the Existing University
Campus (Mini Campus)
2022-Date

- Member, Investigative Committee to Investigation the Dispute Between the Occupants of Magada Staff Quarters
2022
- Member, University Academic Development Committee
2022-Date
- Member, Strategic Action Plan Development Committee
2021
- Member, University Senate
2021-Date 2018-2019,
- Member, Central Research Committee
2018-2019
- Member, Students' Welfare Committee
2018-2019
- Member, Panel to look into a case of aiding and abetting a student under inquiry to escape and sabotage of official duties levelled against a senior staff
2019

2. Lagos State University

Department

- Acting Head, Department of Medical Biochemistry
2015-2018
- Supervisor, Department of Medical Biochemistry
2012
- Coordinator, Postgraduate Programmes
2019-2021
- Coordinator, MBBS Degree Programme
2008-2014
- Coordinator, Laboratory
2007-2010
- Member, Departmental Appointment & Promotion Committee
2014-2021
- Member, Biochemistry Practical Manual Review Committee
2006
- Examination Officer, Department of Medical Biochemistry
2006-2014
- Secretary, Biochemistry Day Committee
2004-2006
- Secretary, Departmental Meetings
2004-2006

Faculty of Basic Medical Sciences

- Member, Faculty Board
2001-2021
- Member, Faculty Appointment & Promotion Committee
2015-2018
- Member, Faculty Results Verifiers Committee
2009-2014
- Member, Faculty Newsletter Committee
2009-2011
- Member, Faculty Board Ethical Committee on Animal Use
2008-2010
- Observer, representing Faculty of Basic Medical Sciences at the Election into Elective Academic Board Positions
2007

Lagos State University College of Medicine

- Member, Curriculum Committee
2021
- Member, Research Grant and Ethics Committee
2018-2020
- Member, Committee on Evaluation of the New Condition of Service
2017
- Member, Academic Board
2010-2018
- Internal Assessor, BNSc. Examinations
2018-2019
- President, LASUCOM Staff Cooperative Multipurpose Society Ltd
2017-2018
- Chairman, LASUCOM Staff Housing Loan Committee
2016-2018
- Member, Animal House Committee
2003-2007,
2012-2019
- Member, Students' Affairs Committee
2012-2016
- Member, Investigation Panel on a Case of Physical Assault between two students
2010
- Member, Loan's Committee of LASUCOM STAFF Multipurpose Cooperative Society
2006-2008
- Member, Investigative Panel into the alleged case of unauthorized fund raising by some executive members of LASUMSA
2006
- Academic Counselor, Counselors for Medical Students
2003-2018
- Member, Research and Seminar Committee
2002-2004

- Member, Time-Table Committee 2002-2004;
2013-2018

Postgraduate

- Member, Postgraduate Board 2016-2018
& 2021
- Member, Panel of Examiners of PhD Qualifying Examination of Fajana, Olusegun Omolade (960502092)
2021
- Member, Panel of Examiners of PhD Qualifying Examination of Obayomi, Abimbola Ayodele (12-9E-02C-001)
2021

University

- Member, Health Research Ethics Committee (HREC)
2021
- Member, University Senate
2015-2018
- Member, Library Committee of the Senate
2008-2014

TECHNICAL SKILLS

1. In-depth knowledge of a variety of techniques related to Biochemistry and Pharmacognosy
2. Considerable knowledge of a variety of techniques related to Biotechnology and Molecular Biology
3. Ability to present scientific information in organized written and verbal forms
4. Team-conscious scientist able to collaborate efficiently with other researchers
5. Ability to manage and prioritize multiple tasks to meet deadlines and project goals

RESEARCH INTEREST

Phytomedicine, Drug Discovery and Metabolism, Biochemical and Environmental Toxicology

My current research efforts are focused on biochemical, anti-oxidative and toxicological effects of medicinal plants and their uses for managing metabolic diseases such as diabetes, cancer, hypertension (cardiological), hepatological and nephrological problems. At the same time, I consider the identification, isolation and characterization of active components of the medicinal plants with the use of gas chromatography-mass spectrometry (GC-MS) and their biological activities in rats. I also conduct research in the area of Environmental Toxicology using medicinal plants as remedies for heavy metal poisoning.

CURRENT RESEARCH

1. **Phytochemical and antioxidative studies of ethanol extract of *Ficus exasperata* (vahl) roots in lead-induced oxidative stress wistar rats**

The pharmacological and therapeutic use of *Ficus exasperata* (Vahl) leaves, stems and root bark has been widely investigated and reported, most especially in Nigeria. However, reports on the antioxidant property of the root plant and its possible ability to chelate heavy metals, particularly lead are yet to be discovered. Hence, this study examined the phytochemical components of ethanol extract of *Ficus exasperata* (Vahl) roots and its antioxidant potential in the chelation of lead in Wistar rats. In achieving this, anthropometric, phytochemical, antioxidant, biochemical and histopathological methods were used. **(Research completed)**

2. Evaluation of phytochemical, antioxidant and biochemical status of seed extracts of *Cannabis sativa* in wistar rats

Cannabis sativa is an annual herbaceous flowering plant belonging to the Cannabaceae family. It is also commonly known as Hemp or Marijuana. The local names in Nigeria include *igbo*, *wee wee*, *grass*, *pot*, *ganja*, *eja*, etc. It is indigenous to eastern Asia but now widely distributed globally due to widespread cultivation in cannabis farms and green houses. It is grown all across Nigeria but largely in the cannabis cultivation states of Ondo and Delta. Evaluation of phytochemical, antioxidant and biochemical status of seed oil extracts of *Cannabis sativa* in wistar rats was carried out. To achieve this, extraction of cannabis seed oil was carried out using ethylacetate, hexane, ethanol and water as solvents. These extracts were subjected to phytochemical screen and gas chromatography-mass spectrometry analysis, *in vitro* and *in vivo* antioxidant parameters evaluation. Various biochemical parameters and histopathology of liver and kidney were also evaluated. **(Research completed)**

3. Antioxidant activities and cytotoxic effects of *Allium fistulosum* L. extracts: Implications for anticancer potential

Cancer has become a global health burden and it is the most common non-communicable disease. Approximately 60% of drugs currently used for cancer treatment have been isolated from natural products and the plant kingdom has been the most significant source. *Allium* species like *Allium cepa*, *Allium sativum*, *Zingiber officinale* have been studied for the treatment of cancer, cardiovascular diseases, inflammation and oxidative damage. Hence, this study is being carried out to examine the antioxidant activities and cytotoxic effects of *Allium fistulosum* L. extracts and its implications for anticancer potential. *Allium fistulosum* is known as Welsh onion or spring onion and is used as nutritional condiment in fried rice preparation in Nigeria. Various solvents extracts (aqueous, hydroethanol, methanol, dichloromethane, ethylacetate) will be prepared. On the extracts, phytochemical screening, phenolic and flavonoid contents will be determined. The GC-MS analysis will be carried out. To evaluate the in-vitro antioxidant activities of the extracts, free radical scavenging and antioxidant activities of the extracts will be done by carrying out 1,1-diphenyl-2-picrylhydrazyl (DPPH) assay, total antioxidant capacity (TAC), ferric reducing antioxidant (FRAP) assay, B-carotene bleaching test, hydrogen peroxide

scavenging ability test and scavenging ability test of nitric oxide. The effects of the extracts will be determined on *Allium cepa* root cell mitosis and the viability or proliferation of cell lines such as MCF-7 (breast cancer) and HT-29 (colon cancer) to investigate the genotoxicity and cytotoxicity of the extracts. The antioxidant and cell viability parameters will be verified for the correlation with the phenolic and flavonoid contents of the extracts. It is being proposed that the antioxidant activities of the phytochemical compounds in *A. fistulosum* will induce the genotoxic and cytotoxic properties which may be a source of drug development against cancer. **(Research in progress: LASUCOM Research Grant Award)**

4. Protective study of *Treculia africana* (breadfruit) seed oil on amoxicillin-clavulanic acid-induced cardiotoxicity in wistar rats

Myocardial infarction (MI), also known as “heart attack,” is caused by decreased or complete cessation of blood flow to a portion of the myocardium. MI may be “silent” and go undetected, or it could be a catastrophic event leading to haemodynamic deterioration and sudden death. Myocardial infarction has emerged as a life threatening condition irrespective of aetiology of the allergic reaction. Modifiable risk factors such as smoking, abnormal lipid profile, hypertension, diabetes mellitus, abdominal obesity, psychosocial factors (such as depression, global and financial stress, and life events (including marital separation, job loss, family conflicts, lack of daily consumption of fruits or vegetables, lack and alcohol consumption) has been delineated for cardiovascular diseases. *Treculia africana* (breadfruit) is a highly sought for fruit due to its medicinal properties. The seeds are of particular interest because of their high nutrition value. It contains small amounts of antioxidants in the form of xanthine and lutein. It is high in carbohydrates and a good source of minerals and vitamins. There has been a record of high rate of death as a result of cardiovascular diseases majorly MI. Different forms of drugs have been used with little information as regard their reliability and toxicity. There has also been paucity of information on potential effects of the use of oils from plant seed (breadfruit) for myocardial effect. There has been general belief that intake of oils causes heart attack despite the nutritional value derived from oils. This study will be focused on the use of oils from this plant source to ascertain the ameliorative and protective effect on heart attack as well as the elucidation of the structure of isolated bioactive compound. **(Research in progress, PhD student)**

LIST OF RESEARCH PUBLICATIONS

Dissertation and Theses

1. **Ajayi, G. O.** (2014). Phytochemical, Biochemical and Toxicological Evaluation of Ethylacetate Fraction of Methanolic Extract of *Plumbago zeylanica* (Linn) Root **(Ph.D. Thesis, 2014)**.
INSTITUTION: Federal University of Agriculture, Abeokuta, Ogun State, Nigeria
2. **Ajayi, G. O.** (1995). Effects of Fertility Plant (*Viscum album*) in Infertility Induced Female Albino Rats **(M.Sc. Dissertation, 1995)**.
INSTITUTION: University of Lagos, Lagos, Nigeria

3. **Ajayi, G. O.** (1989). Preparation of Lysozyme from Hen – egg – white (**B.Sc. Dissertation, 1989**) INSTITUTION: University of Lagos, Lagos, Nigeria

Publications in Peer Reviewed Journals

Foreign/International

1. Ofudje E. A., Akande J., Sodiya E., **Ajayi G.**, Ademoyegun A. (2023). Bioactivity properties of hydroxyapatite/clay nanocomposites. *Research Square* 1-24. <https://doi.org/10.21203/rs.3.rs-3356018/v1>
2. Kayode O. T., Afolabi O.A., **Ajayi G. O.** (2023). Antioxidant and antilipidemic action of ketogenic diet and tomato powder mix in high sugar and fat fed Harwich fruit flies. *Heliyon* 9: e20411. <https://doi.org/10.1016/j.heliyon.2023.e20411>
3. **Ajayi G.O.** and Akinsanya M.A. (2023). Phytochemical Profiles of *Allium cepa* and *Allium fistulosum* by Gas Chromatography-Mass Spectrometry Analysis: A Comparative Study. *Nigerian Journal of Biochemistry and Molecular Biology* 38(2), 73-82. <https://www.nsbmb.org.ng/journals>
4. Afolabi O. A., Kayode O. T., Kayode A. A., **Ajayi G. O.** (2023). Chemical analysis of novel ginger and Hibiscus sabdariffa bio preserved tomato powder. *Bioactive Compounds in Health and Disease* 6(8): 172-184. DOI: <https://www.doi.org/10.31989/bchd.v6i8.1129>
5. Salami S. A., Adesina D. V., **Ajayi G. O.**, Akinsanya M. A., Allen M. O., Salahdeen H. M. (2022) Possible mechanisms in *Ficus exasperata* ethanol root fraction amelioration of lead-induced corpus cavernosal contractile impairments in male Wistar rats. *Journal of Research in Traditional Medicine* 8(2): 55-63. Doi:10.5455.jrtm.2022/ 46087
6. Ofudje E. A., Akinwunmi F., Sodiya E. F., Alayande S. O., Ogundiran A. A., **Ajayi, G. O.** (2022). Biogenic preparation of biphasic calcium phosphate powder from natural source of snail shells: bioactivity study. *SN Applied Sciences*, 4:144 | <https://doi.org/10.1007/s42452-022-05025-9>
7. **Ajayi, G. O.**, Ademuyiwa, O., Lasisi, A. A., Olagunju, J. A., (2021). Chronic hyperglycemia and biochemical alterations induce hepatic-renal dysfunction in rats administered ethylacetate fraction of *Plumbago zeylanca*, Linn. *International Journal of Biochemistry, Bioinformatics and Biotechnology Studies*, Vol. 6, No. 1, pp. 17-29.
8. **Ajayi G. O.**, Edamisan O. M., Obayemi P. T., Elegbeleye E. N., Obi E. U. (2021). Phytoconstituents and antidiabetic activity of *Vernonia amygdalina* (Asteraceae) in streptozotocin- induced diabetic rats. *International Journal of Biochemistry, Bioinformatics and Biotechnology Studies*, Vol. 6, No. 1, pp. 1-16.
9. **Ajayi G. O.**, Obi E. U., Elegbeleye E. N., Obayemi P. T., Edamisan O. M. (2020). The role of *Vernonia amygdalina* on plasma lipid profile, liver and kidney enzymes in rats with streptozotocin-induced diabetes. *Sumerianz Journal of Medical and Healthcare*, Vol. 3, No. 11, pp. 93-102.

10. **Ajayi G. O.**, Adeniyi T.T., (2020). Toxicopathological investigation of the effects of ethanol corm extract of *Zygotritonia crocea* on the liver of wistar albino rats. *European Journal of Biology and Medical Science Research*, Vol. 8, Issue 2, pp. 1-8.
11. **Ajayi G. O.**, Olorunrinu T. J., Shitu M. A. (2020). Elucidation of bioactive compounds in hydroalcohol extract of *Phyllanthus amarus* Schum. and Thonn. leaf using GC-MS analysis. *Journal of Scientific and Innovative Research*, Vol. 9, Issue 2, pp. 40-47
12. **Ajayi, G. O.**, Shittu, M. A., Olorunrinu, T. J., Akinsanya, M. A., Olagunju, J. A., (2020). Influence of *Phyllanthus amarus* on biochemical and haematological status in rats of ibuprofen-induced nephrotoxicity. *Sumerianz Journal of Biotechnology*, Vol. 3, Issue 8, pp. 60-68.
13. **Ajayi G. O.**, Akinsanya M. A., Agbabiaka A. T., Oyebanjo K. S., Hungbo T. D., Olagunju J. A., (2019). D-Limonene: A major bioactive constituent in *Allium fistulosum* identified by GC-MS analysis. *Journal of Phytopharmacology*, Vol. 8, Issue 5, pp. 257-259 , DOI: 10.31254/phyto.2019.8509.
14. **Ajayi G. O.**, Ademuyiwa O., Lasisi A. A., Olagunju J. A., (2019). Free radical scavenging activities of extracts and bioactive constituents from the roots of *Plumbago zeylanica* (Linn)). *European Journal of Biology and Medical Science Research*, Vol. 7, Issue 2, pp. 21-33.
15. **Ajayi G. O.**, Ademuyiwa O., Olagunju J. A., Faduyile F. A., (2019). Biochemical and toxicological implications of ethylacetate fraction of the methanolic extract of *Plumbago zeylanica* (Linn) root. *Journal of Phytopharmacology*, Vol. 8, Issue 4, pp. 192-198 , DOI: 10.31254/phyto.2019.8409. (India)
16. Saalu L. C., Akunna G. G., **Ajayi G.O.**, (2013). Modulating role of bitter leaf on spermatogenic and steroidogenesis functions of the rat testis. *American Journal of Biochemistry and Molecular Biology*, Vol. 3, Issue 3, pp. 314-321.
17. Saalu L. C., Ogunlade B., **Ajayi G. O.**, Oyewepo A. O., Akunna G. G., Ogunmodede, (2012). The hepato-protective potentials of *Moringa oleifera* leaf extract on alcohol-induced hepato- toxicity in wistar rats. *American Journal Biotechnology and Molecular Sciences*, Vol. 2, Issue 1, pp. 6-14.
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35. Kamson R. O., Ayodele O. O. **Ajayi G. O.** (2023). Analyzing the potential antioxidant action of *Celosia argentea* leaf ethanol extract on doxorubicin-induced Wistar rats. *2nd College of Basic and Applied Sciences (CBAS) Conference, Book of Abstracts*, p. 46.
36. **Ajayi G. O.**, Williams S. O. (2023). Antioxidant effect of *Amaranthus hybridus* leaf aqueous extract on serum and organs in doxorubicin-induced Wistar rats *2nd College of Basic and Applied Sciences (CBAS) Conference, Book of Abstracts*, p. 46.
37. **Ajayi G. O.**, Ose E. (2023). Total phenolic content, total flavonoid content and gas chromatography-mass spectrometry analysis of aqueous extract of *Amaranthus hybridus* leaf. *2nd College of Basic and Applied Sciences (CBAS) Conference, Book of Abstracts*, p. 43.
38. **Ajayi G. O.**, Ogunlewe M. A. (2023). *Amaranthus hybridus* leaf aqueous extract mitigates the effect on lipid profile exhibited in lead-fed fruit flies (*Drosophila melanogaster*). *2nd College of Basic and Applied Sciences (CBAS) Conference, Book of Abstracts*, p. 40.
39. **Ajayi G. O.**, Idowu O. E. (2023). Cardioprotective potential of *Amaranthus hybridus* leaf aqueous extract on doxorubicin-induced cardiotoxic Wistar rat. *2nd College of Basic and Applied Sciences (CBAS) Conference, Book of Abstracts*, p. 38.
40. **Ajayi G. O.**, Oluwagbemiro G. M. (2023). Modulatory role of *Amaranthus hybridus* leaf aqueous extract on doxorubicin-induced hepato-renal toxicity in rat. *2nd College of Basic and Applied Sciences (CBAS) Conference, Book of Abstracts*, p. 36.

41. **Ajayi G. O.**, Ogunpitan A. O. (2023). Preliminary evaluation of antioxidant potential of *Amaranthus hybridus* aqueous extract in lead-fed *Drosophila melanogaster* (Fruit flies). *2nd College of Basic and Applied Sciences (CBAS) Conference, Book of Abstracts*, p. 33.
42. **Ajayi G. O.**, Olukunle E. E. (2023). Determination of soft drink (Bigi Cola)-fed *Drosophila melanogaster* (Fruit flies) treated with *Amaranthus hybridus* leaf aqueous extract. *2nd College of Basic and Applied Sciences (CBAS) Conference, Book of Abstracts*, p. 27.
43. Eseagwu O. K., Akinsanya M.A., **Ajayi G. O.** (2023). *In vitro* antioxidant activities and phytochemical constituents' assessment of aqueous, ethyl acetate, ethanol and hexane extracts of *Cannabis sativa* L. leaf. *22nd Society of Experimental Biology of Nigeria (NISEB) Conference, Book of Abstracts*, p. 59-60.
44. **Ajayi G. O.**, Nwaozichukwu P. C., Odumosu O. A., Orunmoluyi V. T. (2022). Evaluation of phenolic content and bioactive components in aqueous extract of *Amaranthus hybridus* (Linn.) leaf. *21st Society of Experimental Biology of Nigeria (NISEB) Conference, Book of Abstracts*, p. 50.
45. Afolabi O. A., Kayode O. T., **Ajayi G. O.** (2022). Anti-Inflammatory and antioxidant effects of ketogenic diet and tomato powder mix in high fat and sugar-fed Harwich fruit flies. *21st Society of Experimental Biology of Nigeria (NISEB) Conference, Book of Abstracts*, p. 24.
46. Ofudje E. A., Ogundiran A. A., Sodiya E. F., **Ajayi G. O.**, Oladeji O. B. (2022). Bioactivity properties of hydroxyapatite/clay nanocomposites. *21st Society of Experimental Biology of Nigeria (NISEB) Conference, Book of Abstracts*, p. 55.
47. **Ajayi, G. O.**, Olagunju, J. A., (2021). Comparative evaluation of phytochemical profiles of *Allium cepa* and *Allium fistulosum* by gas chromatography-mass spectrometry analysis. *1st CBAS Conference Book of Abstracts, Mountain Top University, Prayer City, Ibafo, Ogun State, Nigeria.* October 28-29, 2021.
48. **Ajayi, G. O.**, Adesina, D. V., Akinsanya, M. A., (2021). Effect of hydroethanol extract of *Ficus exasperata* (Vahl) root in normal and lead-induced oxidative stress wistar rats. *1st CBAS Conference Book of Abstracts, Mountain Top University, Prayer City, Ibafo, Ogun State, Nigeria.* October 28-29, 2021.
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chromatography-mass spectrometry analysis. *LASU Journal of Medical Sciences*, Nigeria.: FBMS/FCBS LASUCOM Publications.

CONFERENCES/WORKSHOPS ATTENDED AND PAPERS PRESENTED WITH DATES

1. Eseagwu O. K., Akinsanya M.A., **Ajayi G. O.** (2023). *In vitro* antioxidant activities and phytochemical constituents' assessment of aqueous, ethyl acetate, ethanol and hexane extracts of *Cannabis sativa* L. leaf. *Presented at the 22nd Society of Experimental Biology of Nigeria (BU-NISEB) Conference Annual Scientific and General Meeting*. Babcock University, Ilishan Remo, Ogun State, Nigeria. 7 - 10 August, 2023
2. Mountain Top University 4th International Conference on Entrepreneurship (MTU-ICE) 2022. Theme: Entrepreneurship and Sustainable Development Goal: Security Challenges and Economic Recovery. 9th – 19th November, 2022
3. **Ajayi G. O.**, Nwaozichukwu P. C., Odumosu O. A., Orunmoluyi V. T. (2022). Evaluation of phenolic content and bioactive components in aqueous extract of *Amaranthus hybridus* (Linn.) leaf. *Presented at the 21st Society of Experimental Biology of Nigeria (NISEB) Annual Scientific and General Meeting (MTU-NISEB Conference 2022)*, Mountain Top University, Prayer City, Ogun State, Nigeria. 30th August – 2nd September, 2022.
4. Afolabi O. A., Kayode O. T., **Ajayi G. O.** (2022). Anti-Inflammatory and antioxidant effects of ketogenic diet and tomato powder mix in high fat and sugar-fed Harwich fruit flies. *Presented at the 21st Society of Experimental Biology of Nigeria (NISEB) Annual Scientific and General Meeting (MTU-NISEB Conference 2022)*, Mountain Top University, Prayer City, Ogun State, Nigeria. 30th August – 2nd September, 2022.
5. Ofudje E. A., Ogundiran A. A., Sodiya E. F., **Ajayi G. O.**, Oladeji O. B. (2022). Bioactivity properties of hydroxyapatite/clay nanocomposites. *Presented at the 21st Society of Experimental Biology of Nigeria (NISEB) Annual Scientific and General Meeting (MTU-NISEB Conference 2022)*, Mountain Top University, Prayer City, Ogun State, Nigeria. 30th August – 2nd September, 2022.
6. Workshop on Overview of Open and distance Learning for Mountain Top University. *Organized by the Regional Training and Research institute for Distance and Open Learning (RETRIDOL) in collaboration with the Commonwealth of Learning (COL) and Mountain Top University*, Prayer City, Ogun State, Nigeria. 23 – 25 August, 2022.
7. **Ajayi G. O.** (2022). Understanding academic ethics and culture. *Presented at the CBAS Seminar for The Academic and Technical Staff, College of Basic and Applied Sciences, Mountain Top University*, Prayer City, Ogun State, Nigeria. January 28, 2022.
8. **Ajayi G. O.** (2021). How to write research methodology and results. *Presented at the Departmental Seminar for The Final Year Students, Department of Biological*

Sciences, College of Basic and Applied Sciences, Mountain Top University, Prayer City, Ogun State, Nigeria.

9. **Ajayi, G. O.**, Olagunju, J. A., (2021). Comparative evaluation of phytochemical profiles of *Allium cepa* and *Allium fistulosum* by gas chromatography-mass spectrometry analysis. *1st CBAS Conference, Mountain Top University, Prayer City, Ibafo, Ogun State, Nigeria. October 28-29, 2021.*
10. **Ajayi, G. O.**, Adesina, D. V., Akinsanya, M. A., (2021). Effect of hydroethanol extract of *Ficus exasperata* (Vahl) root in normal and lead-induced oxidative stress wistar rats. *1st CBAS Conference Book of Abstract, Mountain Top University, Prayer City, Ibafo, Ogun State, Nigeria. October 28-29, 2021.*
11. 7th Biennial Faculty Day & Scientific Conference of the Faculty of Clinical Sciences, Lagos State University College of Medicine, Ikeja, Lagos, Nigeria. September 29, 2021.
12. **Ajayi G. O.**, Ademuyiwa O, Lasisi A. A. Olagunju J. A. (2019). Free radical scavenging activities of extracts and bioactive constituents from the roots of *Plumbago zeylanica* (Linn). *Experimental Biology/American Society of Biochemistry and Molecular Biology (ASBMB) Annual Conference, Orlando, Florida, USA. April 6-9, 2019.*
13. **Ajayi G. O.**, Akinsanya M. A, Agbabiaka A. T, Olagunju J. A. (2019). Bioactive constituents in *Allium fistulosum* identified by gas chromatography-mass spectrometry analysis. *Faculties of Basic Medical Sciences and Basic Clinical Sciences Joint Annual Conference, Lagos State University College of Medicine (LASUCOM), Ikeja, Lagos, Nigeria. November 5, 2019.*
14. **Ajayi G. O.**, Ademuyiwa O, Olagunju J. A, Faduyile F. A. (2018). Biochemical and toxicological implications of ethylacetate fraction of the methanolic extract of *Plumbago zeylanica* (Linn) root. *39th American College of Toxicology (ACT) Annual Conference, West Palm Beach, Florida, USA. November 4-7, 2018.*
15. Academic Leadership, Workshop. (2017): Academic Leadership for Today's Nigeria: TRES Antidote to Distress, Teaching, Research, Entrepreneurship and Service, at Regent Hotel, GRA, Ikeja-Lagos..
16. 25th Annual General Meeting of the Institute of Public Analysts of Nigeria (IPAN), Workshop. (2017): Workshop on The Role of Public Analysts in a Recessed Economy, at Ikeja, Lagos.
17. **Ajayi G.O.** (2017). Phytochemicals and its health benefits. *Presented at the Faculty seminar, Faculty of Basic Medical Sciences (FBMS), Lagos State University College of Medicine, Ikeja-Lagos, Nigeria.*
18. Academic Quality Assurance Workshop. (2016): Quality Standards for Teaching, Research and Community Engagements. In LASU, Ojo, Nigeria

19. 6th International Biotechnology Conference, Conference. (2016): Conference, Exhibition and Workshop (IBCEW 2016) Covenant University, Ota, Ogun State, Nigeria.
20. 10th Federation of African Societies of Biochemistry and Molecular Biology (FASBMB)/ 34th Nigerian Society of Biochemistry and Molecular Biology, Conference. (2015): In Minna, Niger State, Nigeria.
21. **Ajayi G.O.** and Olagunju J.A. (2013). Gas chromatography-mass spectrometry (GC-MS) analysis of pre-dried and dried ethanolic extract of *Plumbago zeylanica* root. *West African Society for Pharmacology/Societe Cuest Africaine de Pharmacologie (WASP-SOAP) Scientific sessions*, Lagos, Nigeria.
22. XXXth Scientific Conference of the Physiological Society of Nigeria, Conference. (2010): In LASUCOM, Ikeja, Lagos, Nigeria.
23. **Ajayi G.O.** and Adeniyi T.T. (2010). Comparative study of some biochemical alterations induced by *Allium sativum* and vitamin C in rats exposed to lead acetate. *The Physiological Society of Nigeria (PSN) Scientific sessions*, Ikeja, Lagos, Nigeria.
24. **Ajayi G.O.**, Adeniyi T.T. and Jaiyeola T.M. (2009). Biochemical changes elicited by aqueous and ethanolic Corm extracts os *Zygotritonia crocea* in rats. *Nigerian Society of Biochemistry and Molecular Biology (NSBMB) scientific sessions* in Akure, Ondo State.
25. Grants, Research, Writing for publication and Presentation of research, Workshop. (2009): Capacity Building workshop by the Faculty of Clinical Sciences, Lagos State University College of Medicine (LASUCOM), Ikeja – Lagos.
26. 5th International Congress of the Federation of African Societies of Biochemistry and Molecular Biology (FASBMB), Conference. (2006): In Abuja, Nigeria.
27. 5th Annual Conference of the Nigerian Society of Biochemistry and Molecular Biology (NSBMS) /Federation of African Societies of Biochemistry and Molecular Biology (FASBMB), Conference. (2005): for West African Sub-Region in Lagos, Nigeria.

GRADUTE STUDENTS SUPERVISION (CAPACITY BUILDING)

Ph.D. Degree

1. T. S. Adekunbi (Co-supervisor (On going))
2. F. A. Kareem (Major Supervisor (On going))
3. A. O. Ighoyivhi (Co-Supervisor (On going))
4. A. M. Babatimehin (Co-supervisor (On going))
5. O. A. Afolabi (Co-supervisor (On going))

M.Sc. Degree

1. D. V. Adeshina (2021)
2. O. M. Ogundipe (2022)

3. O. K. Eseagwu (2022)
4. O. A. Afolabi (2022)
5. A. A. Ajikobi (2023)
6. O. E. Ayorinde (2023)
7. G. A. Umoren (2023)
8. R. O. Kamson (2023)

Postgraduate Diploma

1. T. J. Olorunrinu (PGD 2019)
2. M. A. Shittu (2019)
3. A. S. Osagiede (2023)
4. G. O. Olayinka (2023)
5. J. Asemewalen (2023)

COMMUNITY SERVICE/MFM ACTIVITIES/EXTRA-CURRICULAR ACTIVITIES

1. Academic Engagement:

- a. **Postgraduate External Examiner** to Federal University of Agriculture, Abeokuta (FUNAAB), Ogun State, Nigeria; Lagos State university, Ojo, Lagos State Nigeria and some private universities in Nigeria
 - b. **Professorial Promotion Assessor** to some public and private universities in Nigeria
 - c. **Journal Reviewer** to some international and local peer reviewed journal publishers
2. **Religion Activity:** Regional Overseer at Mountain of Fire and Miracles Ministries, Onike, Yaba, Lagos, Nigeria. (LR 114, Itamaga, Ikorodu)
 3. **Community Activity:** Involve in running the affairs of Itele-Andu Community Development Association, Maya-Ikorodu, Lagos as Zonal Coordinator.
 4. **Sports:** Engage in sports such as Table Tennis and Chess.

REFEREES

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A handwritten signature in blue ink, appearing to read 'O. A. Magbagbeola', written in a cursive style.

Signature