

Postal Address: c/o Ayodele Oluwasegun. NDPR, 15 Babatunde Jose Street, Victoria Island, Lagos.
16, Harmony Street, Triumph Estate, Obanta, Aseese, Ogun State.
E-mail: opeige@yahoo.com, ooayodele@mtu.edu.ng. Phone: 08159862987, 08066200610

Ayodele, Opeyemi Oluwayemisi

OBJECTIVE

A biochemist with experience and expertise in phytomedicine, diabetology, hematology, toxicology, food and products analysis, drug discovery and development, medicinal plants, isolation of bioactive compounds, and animal system experimental models. My interest is in developing a career that combines teaching and high-quality research that will enable the attainment of international stature in the wider STEM fields, enhanced by a dynamic scientific environment.

EDUCATION

2013 – 2019 Babcock University, Ilisan-Remo, Ogun State, Nigeria
2003 – 2004 University of Ibadan, Ibadan, Oyo State, Nigeria
1995 – 2000 University of Ado-Ekiti, Ekiti State, Nigeria
1989 – 1994 Christ’s Girls School, Ado Ekiti, Ekiti State, Nigeria
1983 – 1988 Holy Trinity Primary School, Ado Ekiti, Ado Ekiti, Ekiti State, Nigeria

ACADEMIC QUALIFICATIONS

Ph.D. Biochemistry (Phytomedicine and Drug discovery), 2019
M.Sc. Biochemistry (Drug metabolism & Toxicology), 2004
B.Sc. (Hons) Biochemistry (2nd Class Upper Division), 2000
Senior School Certificate Examination, 1994
First School Leaving Certificate, 1988

WORK EXPERIENCE

A. UNIVERSITY

Jan 2016 till date Mountain Top University. Km 12, Lagos-Ibadan Expressway, Prayer city, Ogun State

i. Teaching: Lecturer I (September 2022 till date)
Lecturer II (2019 - 2021)
Assistant lecturer (2016 - 2019)

Key responsibilities:

- Teaching and mentoring students in Biochemistry and related courses

- Coordination of practical classes and research.
- Preparing and updating biochemistry and biological science course materials and manuals for students
- Supervising and supporting undergraduate research dissertations
- Handling tutorials.

ii. Administrative:

Acting Director, SIWES (August 2021 till date)

Key responsibilities:

- Liaising with NUC and Industrial Training Fund (ITF) on all matters pertaining to SIWES.
- Preparing students' master list and placement list
- Placement of students in industries and other establishments
- Visiting and supervising students in industrial training
- Coordinating all other student's training activities such as students' work, reports, seminars, general assessment, and payment of industrial training allowance.

Fostering effective contacts and collaboration between the University and industries

Acting Deputy Director, SIWES (February 2020 – July 2021)

Key responsibilities:

- Liaising with NUC and Industrial Training Fund (ITF) on all matters pertaining to SIWES.
- Preparing students' master list and placement list
- Placement of students in industries and other establishments
- Visiting and supervising students in industrial training
- Coordinating all other student's training activities such as students' work, reports, seminars, general assessment, and payment of industrial training allowance.
- Fostering effective contacts and collaboration between the University and industries.

PG Coordinator- Department of Biological Sciences (July 2021 till date)

UNIVERSITY COMMITTEE MEMBERSHIP

- Member of the University Timetable committee
- Member of Computer and ICT committee
- Member of IGR review committee
- Member of the Scholarship and Grants sourcing Committee
- Member of Central research laboratory monitoring and maintenance committee
- Member of the University Scholarship committee
- Chairman of College welfare committee

B. INDUSTRY

Jun 2010 –Sept 2013 AL-Tinez Pharmaceuticals Ltd. 8, Obokun Street, Off Coker Rd. Ilupeju, Lagos

Role: Regulatory/Research Officer.

Job Description:

- Handling Regulatory and Registration affairs of the Company.
- Intermediate between Company and NAFDAC.
- Product Research.

Oct. 2006-May 2010 Ekha Agro Processing. Km 15, Lagos- Ibadan Expressway, Ibafo, Ogun State.

Role: Quality Assurance & Research Personnel

Job Description:

- Quality Control of Glucose Syrup Production from Cassava starch by Acid Hydrolysis Method
- Raw material and process monitoring to ensure conformity to specification.
- Final product check and analysis to ensure product meets up with desired quality parameters
- Internal GMP Audit and Market Surveillance
- Intermediating between Company and Government agencies such as NAFDAC, SON, FEPA, etc

Oct. 2002- Aug. 2003 AC Nielsen. Plot 177A, Sinari Daranijo, Victoria Island. Lagos.

Role: Operational Research Officer

Job description:

- Market research and data collection.

Jul.2000- June 2001 Immaculate Conception Junior Seminary. Calabar, Cross River State.

Role: (NYSC) Chemistry and Biology Tutor.

ACADEMIC RESEARCH THESIS/DISSERTATIONS

1. Modulation of blood coagulation and Lipid profile in diabetics and non-diabetics by *Crassocephalum crepidioides* Benth. S. Moore leaves. Ph.D. Thesis (December, 2019).
2. Hypotriglyceridemic and Hypocholesterolemic Effects of Hibiscus sabdariffa L. Ethanolic Extract in Alloxan-induced diabetic rats. M.Sc. Dissertation (November 2004).
3. Antimicrobial activity of crude Saponin from *Solanum indicum*. B.Sc. Research Project (January, 2000).

PUBLICATIONS

1. Opeyemi Oluwayemisi Ayodele, Funmilayo Dorcas Onajobi, Emeka Emea Okoro, Omolaja Osoniyi. (2023). *Crassocephalum crepidioides* (Asteraceae) Benth S. Moore leaves fractions attenuate dyslipidemia and atherogenic indices in diabetic rats. *Pharmacogn. Res.*, 2023; 15(4):761-770. DOI: 10.5530/pres.15.4.080

2. **Opeyemi Oluwayemisi Ayodele**, Tamunosai bibam Charles Banigo, Emeka Emea Okoro and Opeyemi Owolabi Ojo. (2022). *Crassocephalum rubens* extract and fractions: Hypolipidemic and cardioprotective activities. GSC Biological and Pharmaceutical Sciences, 2022, 20(01), 253–261. <https://doi.org/10.30574/gscbps.2022.20.1.0252>
3. **Opeyemi O. Ayodele**, Ifeoluwa M. Dada and Rotimi K. Adekunle. (2021). Assessment of Fertility effect and hypolipidemic activity of *Carica papaya* (Linn) leaf methanol extract in male diabetic rats. *European Journal of Nutrition and food safety*, 13(6): 58-69; Article no.EJNFS.74567.
4. **Ayodele OO**, Onajobi FD, Osoniyi O. (2020). Modulation of blood Coagulation and hematological Parameters by *Crassocephalum crepidioides* leaf methanol extract and fractions in STZ-induced diabetes in the rat. *The Scientific World Journal*, Volume 2020, Article ID 1036364, pg 1-11. <https://doi.org/10.1155/2020/1036364>.
5. **Opeyemi O. Ayodele**, Funmilayo D. Onajobi, Omolaja R. Osoniyi (2020). GC-MS Phytochemical Profiling of the Hexane fraction of *Crassocephalum crepidioides* Benth S. Moore leaves. *African Journal of Pure and Applied Chemistry*, 14(1), 1-8.
6. **Opeyemi Oluwayemisi Ayodele**, Funmilayo Dorcas Onajobi, Omolaja Osoniyi (2019). In vitro anticoagulant effect of *Crassocephalum crepidioides* leaf methanol extract and fractions on human blood. *Journal of Experimental pharmacology*, 11, 99-107.
7. Ehiwuogu-Onyibe Joy, **Ayodele Opeyemi**, Mordi James and Elemo Gloria (2019). In vivo safety and hypolipidemic effect of *Bifidobacterium adolenscentis* CH2 in female albino rats. *African Journal of Microbiology Research*, 13(10), 195-205.
8. Amah, G.H., Ehichioya, E.D., **Ayodele, O.O.**, Adetona, M.O., Ananaba E.D. & Fakunle, V.O. (2016). Bioavailability of Selected Dietary Elements in a locally formulated complementary food. *IOSR Journal of Applied chemistry*, 9(11), 12-17.
9. Farombi, E.O., **Ige, O.O.** (2007). Hypolipidemic and Antioxidant Effects of Ethanolic extract from dried calyx of *Hibiscus sabdariffa* in Alloxan-induced Diabetic rats. *Fundamental & Clinical Pharmacology*, 21(6), 601-609.

BOOK OF PROCEEDINGS

- Modulatory effect of *Crassocephalum crepidioides* Benth S. Moore leaf methanol extract and fractions on blood coagulation of Streptozotocin-induced diabetic rats. First Humboldt Kolleg (An International Conference) NIMR, Pg 49-50. October, 2019.

PAPER PRESENTATION

- *Phyllanthus amarus* extract and fractions; anti-inflammatory, antioxidant, and hypolipidemic activities in mice. COAM 2022 conference, Centre for plant medicinal research, Ghana, 1st-3rd November.

- *Phyllanthus amarus* extract downregulates the activities of pro-inflammatory cytokines and prolonged blood coagulation in lipopolysaccharides-induced inflammation rat model. COAM 2023 conference, Centre for plant medicinal research, Ghana, 7th -10th November, 2023
- Modulatory effect of *Crassocephalum crepidioides* Benth S. Moore leaf methanol extract and fractions on blood coagulation of Streptozotocin-induced diabetic rats. NIMR Humboldt Kolleg, Lagos. 16th-18th October 2019.
- Anti-inflammatory and Pro-coagulant activities of *Phyllanthus amarus* hydroethanol extract and fractions on carrageenan-induced inflammation in the mice. MTU CBAS conference, 28th – 29th October 2021.

POSTER PRESENTATION

- Effects of *Ocimum basilicum* L. extract on some biochemical parameters in *Plasmodium* infected diabetic mice. 2nd CBAS conference, Mountain Top University, 11th -12th October 2023.
- Anti-inflammatory, antioxidant, and hypolipidemic activities of *Phyllanthus amarus* Schum. Thonn. (Euphorbiaceae) in mice model of acute inflammation. MTU-NISEB conference. 29th August -2nd September 2022.
- Evaluation of Lipid profile and Atherogenic indices of diabetic rats treated with the Aqueous and Hexane fractions of *Crassocephalum crepidioides* (Asteraceae) Benth S. Moore leaves. Keystone eSymposia on lipidomics of health and disease. March 2021.
- Evaluation of the effects of *Crassocephalum rubens* leaves on blood coagulation and cardiac parameters in isoproterenol-induced myocardial infarcted rats. MTU CBAS conference, 28th – 29th October 2021.

ARTICLES UNDER REVIEW

Evaluation of Lipid Profile and Atherogenic indices of diabetic rats treated with the Aqueous and Hexane fractions of *Crassocephalum crepidioides* (Asteraceae) Benth S. Moore leaves; *In vivo* and *in silico* approach.

UNDERGRADUATE SUPERVISION

Richards, J.N. Effect of *Phyllanthus amarus* and n-hexadecanoic acid on blood coagulation parameters of lipopolysaccharide-induced inflammation in Wistar rats (September 2022).

Adeleke W. A. Effects of diabetes and *Plasmodium berghei* infection on some immune and biochemical parameters in balb/c mice (September 2022).

Olaiya, O. E. Effects of *Phyllanthus amarus* ethanol extract on some biochemical and systemic inflammatory parameters in lipopolysaccharide-induced inflammation rat model (September 2022).

Babalola I. I. Modulatory effect of metformin and artemether-lumefantrine on blood coagulation in diabetic mice co-infected with malaria (September 2022).

Echehomos, C. R. Evaluation of the effects of hydromethanol extract and fractions of *Crassocephalum rubens* on blood coagulation and cardiac parameters in isoproterenol-induced myocardial infarcted rats (September 2021).

Banigo, T. C. Investigation of the effects of *Crassocephalum rubens* methanol extract and fractions on lipid profile of isoproterenol-induced myocardial infarcted rats (September 2021).

Sangosanya, T. B. Evaluation of hydroethanol extract and fractions of *Phyllanthus amarus* on blood coagulation and some biochemical parameters of carrageenan-induced inflammation in mice (September 2021).

Udeagha, C.L. Anti-inflammatory and antioxidant effects of *Phyllanthus amarus* on carrageenan-induced inflammation in mice (September 2021).

Everest, G. C. Antioxidant effect of *Crassocephalum rubens* (Jacq. S. Moore) Asteraceae in isoprenaline induced myocardial infarcted rats (September 2021).

Ocha, B. A. Toxicity profiling of *Phyllanthus amarus* and *Crassocephalum rubens* in Wistar albino rats (September 2021).

Akunne, P. Comparative effects of carbonated drink (Bigi tropical) and health drink (Eviron) on some biochemical indices in humans (November 2020).

Dada, I. M. Effects of *Carica papaya* (Linn) leaves on lipid profile and blood clotting of STZ- induced diabetic rats (July 2019).

Adekunle, R. K. Effects of *Carica papaya* (Linn.) leaf methanol extract on fertility of male diabetic rats (July 2019).

Ajayi, D. O. Evaluation of antioxidant activity of *Carica papaya* leaves (July 2019).

ACADEMIC LINKAGES/RESEARCH CLUSTER

1. Member, Nutritional and health research group, College of Basic and applied sciences, Mountain Top University, Prayer city, Ogun State, Nigeria.
2. Member, Prof. Onajobi F.D Research Group, Membrane, Enzyme and Phytomedicine Laboratory, Babcock University, Nigeria.
3. Member, Dr. Osoniyi R. Research Group, Central Laboratory (Biochemistry and Molecular Biology), University of Ile-Ife, Nigeria.

MEMBERSHIP OF LEARNED SOCIETIES AND PROFESSIONAL BODIES

Institute of Public Analysts of Nigeria (IPAN)

Nigerian Institute of Food Science and Technology (NIFST)

Organization for Women in Science for the Developing World (OWSD)

Society for Medicinal Plants and Economic Development (SOMPED)

Phytochemical Society of Europe (PSE)

Nigerian Society of Biochemistry and Molecular Biology (NSBMB)

American Society of Biochemistry and Molecular Biology (ASBMB)

Women in Science without Borders

AWARDS/GRANTS

Scholarship award. Keystone eSymposia on lipidomics in health and diseases. Keystone, USA. March 2021.

Global Travel Award by Bill and Melinda Gate foundation to attend Keystone Symposia on Diabetes at Keystone, Colorado, USA. January 2017.

CONFERENCES ATTENDED

- Society for Experimental Biology of Nigeria (NISEB) annual scientific conference; MTU-NISEB conference 29th August -2nd September 2022.
- 1st Conference of MTU College of Basic and Applied Sciences: Unforeseen OVID-19 Disruptions; Surmounting the unintended tension toward Economic rejuvenation and sustainable development. 28th -29th October, 2021.
- Keystone eSymposia on Lipidomics in health and disease. March 24th – 26th 2021.
- NIMR Humboldt Kolleg; From Basic Sciences to Translation Research. NIMR, 16th -18th October 2019.
- Keystone Symposia on Diabetes. Keystone, Colorado, USA, January 22nd-26th 2017.
- Entrepreneurship and Innovation; Creating value beyond the Laboratory Environment. Institute of Public Analyst of Nigeria, April 27th -28th, 2016.
- Management Systems for Laboratories; Complying with ISO 17025 and 15189. Institute of Public Analyst of Nigeria, November 17th -18th, 2015.

TRAINING/WORKSHOPS

- MTU Academic planning capacity building workshop; 21st-century University curriculum review in Mountain Top University. 21st January 2021.
- Retreat for Managers: Evolving Workable Solutions for Effective SIWES Administration in Nigeria; consideration for the New Normal. ITF. 1st -5th November 2021.
- Webinar on Quality Assurance in Higher and Tertiary Education Learner-centered teaching skills: The foundation of Education by AAU. 15th September 2020.
- Virtual Organic and Medicinal Chemistry Symposium by Department of Chemistry and Chemical Engineering, Lahore University of Management Sciences, Pakistan. 12th September 2020.
- Webinar on Challenges facing humanity in the Age of COVID-19 and beyond by Women in Science without Borders in partnership with Science communication agency SciComm X, Cairo, Egypt. 5th September 2020.

- AAU virtual Workshop on Research and Project grants proposal writing. 8th September 2020.
- Virtual workshop on Sustaining your research pace during a Pandemic. OWSD, Ghana. 14th August 2020.
- Technology-Enhanced Pedagogy webinar by Mountain Top University, Nigeria. 13th August 2020.
- Virtual workshop on Qualification and Calibration of Analytical Equipment by Institute of Public Analysts of Nigeria. 4th August 2020.
- Webinar on Research and Publication for improved University ranking by Mountain top University, Nigeria. 4th August 2020.
- Virtual Workshop on Grantsmanship - getting the basics right by OWSD, Ghana Chapter. 11th August 2020.
- Grant and Proposal Writing Workshop. Mountain Top University, April 17th -19th 2018.
- Advanced Digital Appreciation Programme for Tertiary Institution (ADAPTI): Statistical Package for Social sciences. Mountain Top University, August 2018.
- Safety, Laboratory Techniques, and Appreciation, ISI, Denmark. November 2008.
- Hazard Analysis and Critical Control Point (HACCP). July 2009.
- Safety and Planned Preventive Maintenance. June 2007.
- Basic and Advanced Digital Appreciation Programme for Tertiary Institution (ADAPTI)

SKILLS

- Good Computer skills (Microsoft office suite (MSWord, PPTX, Excel)
- Statistical tools and software (SPSS, GraphPad Prism)
- Analytical Techniques and Report writing
- Isolation and Characterization of phytochemicals
- Design of animal experimental models for in vivo assays
- Good communication skills; written and oral

EXTRA-CURRICULAR ACTIVITIES

Reading, Writing, Solving puzzles, Intellectual discussion, and Cooking

REFEREE

Prof. Omolaja Osoniyi

Department of Biochemistry and Molecular Biology
Obafemi Awolowo University
Ile-Ife, Nigeria
Phone: +234 (0813 284 7284)

Patrick Ekong (Barr.)

Niger Delta Petroleum Resources
15, Babatunde Jose Street, V.I, Lagos
Phone: (0802 306 3741)

Professor F. D. Onajobi

Department of Biochemistry
Ben Carson (Snr.) School of Medicine
Babcock University
Ilisan-Remo
Phone: (0803 408 9330)