

## CURRICULUM VITAE

**NAME:** Dr. Ganiyat Kehinde **OLOYEDE (Nee Raimi)**

**DATE OF BIRTH:** 26<sup>th</sup> March, 1971

**MARITAL STATUS:** Married

**STATE OF ORIGIN:** Oyo State

**LOCAL GOVERNMENT AREA:** Oluyole

**SEX:** Female

**RESIDENTIAL ADDRESS:** No. 3 Gatta Layout, Bodija Ilupeju, Ibadan

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### EDUCATIONAL INSTITUTIONS ATTENDED (WITH DATES)

- |        |   |             |
|--------|---|-------------|
| (i)    | University of Ibadan, Nigeria   | 1988 – 1992 |
| (ii)   | University of Ibadan, Nigeria   | 1995 – 1997 |
| (iii)  | University of Ibadan, Nigeria   | 1998 – 2005 |
| (iv)   | The United State Institute of Peace   | 2015–2015   |
| (v)    | National Open of University, Nigeria.   | 2014 – 2016 |
| (vi)   | Eduwhere Chapel Hill, NC, US.   | 2016 – 2016 |
| (vii)  | Alison Education, Galway, Ireland   | 2016 - 2016 |
| (viii) | International Network for the Availability of Scientific Publications (INASP), UK | 2019-2019   |

### ACADEMIC QUALIFICATIONS OBTAINED (WITH DATES)

- |       |   |      |
|-------|---|------|
| (i)   | B.Sc (Hons) Chemistry (Pure & Applied)                  |      |
|       | Second Class (Honours) Upper Division (2 <sup>1</sup> ) | 1992 |
| (ii)  | M.Sc. Pharmaceutical Chemistry (Synthetic Chemistry)    | 1997 |
| (iii) | Ph.D Pharmacy (Medicinal/Natural Product Chemistry)     | 2005 |

## **PROFESSIONAL QUALIFICATIONS AND DIPLOMAS (WITH DATES):**

- |       |  |      |
|-------|--|------|
| (i)   | The United State Institute of Peace<br>Certificate in Conflict Analysis  | 2015 |
| (ii)  | Postgraduate Diploma in Education (PGDE)   | 2016 |
| (iii) | United Nations' Globally Harmonized System of Classification<br>and Labeling of Chemicals (GHS) (Certificate of Completion)<br>Eduwhere Chapel Hill, NC, US.                                       | 2016 |
| (iv)  | United States Department of Transportation (USDOT) General Awareness<br>of Hazardous Materials (Certificate of Completion)<br>Eduwhere Chapel Hill, NC, US.  | 2016 |
| (v)   | Laboratory Safety and Chemical Hygiene<br>(Certificate of Completion) Eduwhere Chapel Hill, NC, US.  | 2016 |
| (vi)  | Certificate in Human Health - Diet and Nutrition<br>Alison Education, Galway, Ireland  | 2016 |
| (vii) | Certificate in Research Writing in Sciences<br>AuthorAID online Course in Research Communication Course<br>(International Network for the Availability of Scientific Publications<br>(INASP), UK). | 2019 |

## **NAMES AND ADDRESSES OF EMPLOYERS (WITH DATES)**

- |   |   |             |
|---|---|-------------|
| * | Comprehensive Secondary School, Ekorì, Cross Rivers State | 1992 – 1993 |
|   | Position Held: Youth Service Scheme/Chemistry Teacher     |             |
| * | Ministry of education/Government Technical College, Oyo   | 1994 – 1997 |
|   | Position Held: Education Officer/Chemistry Lecturer       |             |

### **SCOPE OF ACTIVITIES**

- (i) Lecturing the students in Chemistry
- (ii) Carrying out practical sessions
- (iii) Conducting Examination to test students knowledge in both  
Theory/Practical Chemistry
- (iv) Performing other Administrative duties that may be assigned to me.

- |   |   |             |
|---|---|-------------|
| * | Ministry of Health  | 1997 – 2008 |
|   | Department of Food, Drugs and Laboratory Services<br>(Public Health Laboratory)<br>Jericho, Ibadan, Oyo State, Nigeria<br>Position Held: Chief Scientific Officer/Acting Assistant Director |             |

### **SCOPE OF ACTIVITIES**

- (i) Chemical Analysis of Water, Food and Drugs.
- (ii) Microbiological Analysis of Water, Food and Drugs.
- (iii) Scientific Investigation and other Analytical Duties Relevant to Safety and Quality of Food, drugs and Water.
- (iv) Routine Surveillance of all Water Schemes including Boreholes in the State
- (v) Supervising and Training Junior Officers in the Laboratory
- (vi) Designing and Supervising Experiments and Evaluating Results
- (vii) Giving Lectures and Training Students on Industrial Attachment from Higher Institutions.
- (viii) Performing other administrative duties that may be assigned to me.

Outside Posting (On secondment):

\* Programme Officer/Project Supervisor –

Health is Wealth Programme of Former First Lady-Wife of Oyo State Governor,

Office of the First Lady, Secretariat Ibadan, Oyo State. January, 2001- December, 2001

### **Present Position**

\* **Department of Chemistry, University of Ibadan, Nigeria April 2008-to date**

#### **Present Position - Associate Professor**

##### **SCOPE OF ACTIVITIES**

- (i) Lecturing the students in Chemistry
- (ii) Carrying out practical sessions
- (iii) Medicinal/Natural Products Research activities
- (iv) Synthetic chemistry Research
- (v) Conducting Examination to test students knowledge in both Theory/Practical Chemistry
- (vi) Departmental Undergraduate seminar coordinator
- (vii) Performing other Administrative duties that may be assigned to me.

### **RESEARCH COMPLETED (Project and Thesis)**

- (i) Raimi, G.K. (1992), Solvent perturbation of the electronic absorption spectra of 2-naphthalenol-1-bromo and 2,3-dicyano-5,6-dichloro-1,4,-quinol (B.Sc. Project, Department of Chemistry, Faculty of Science, University of Ibadan).
- (ii) Raimi, G.K. (1997), Synthesis of derivative of 2-(thiazol-4-yl)-1H-benzimidazole (Thiabendazole) (M.Sc. Project Department of Pharmaceutical Chemistry, Faculty of Pharmacy, University of Ibadan).
- (iii) Raimi, G.K. (2005), Isolation and Characterization of Antioxidant and Anticonvulsant constituents of *Crinum ornatum* (Ait) Bury (Ph.D Thesis (Natural Products Chemistry) Department of Pharmaceutical Chemistry, Faculty of Pharmacy, University of Ibadan).

### **HONOURS, DISTINCTIONS, SCHOLARSHIPS/FELLOWSHIPS OBTAINED (WITH DATES):**

- (i) Recipient, Bashorun MKO Abiola Postgraduate Fellowship at University of Ibadan.

2000

(ii)	Recipient, Third World Organisation for Women in Science Postgraduate Fellowship.	2003
(iii)	Recipient, Education Trust Fund AST&D/Conference Support	2010
(iv)	Recipient, University of Ibadan Multi-disciplinary Senate Research Grant (Principal Investigator).	2010
(v)	Recipient, John D. and Catherine T. MacArthur Foundation Start Up Research Grant (Principal Investigator).	2010
(vi)	Recipient, ICCBS-The World Academy of Science (TWAS), Italy Post Doctoral Fellowship	2015
(vii)	Principal Investigator, Tertiary Education Trust Fund (TetFund) Institution Based Research grant on Project titled: Isolation of Bioactive antiviral constituents of <i>Anogeissus leiocarpus</i> (DC.) Guill. & Perr. (Combretaceae) and <i>Vitex chrysocarpa</i> Planch. ex Benth.	2016
(viii)	Award as Invited speaker/Co-chair Scientific session at the 4th Hamdard International Conference on Unani Medicine-2017, Hamdard University, Madinat al-Hikma, Karachi	2017
(ix)	Recipient of a 2018 University of Ibadan Conference Support Fund (Sub-Committee of COPD)	2018
(x)	Recipient of a 2019 Festival Grant of the American Chemical Society's Committee on International Activities (IAC), Committee on Community Activities (CCA) and Society Committee on Education (SOCED),	2019
(xi)	Recipient of the International Year of the Periodic Table (IYPT) Activity Grant for Student Chapters of the American Chemical Society.	2019
(xii)	Recipient of the American Chemical Society International Student Activity Grant	2019
(xiii)	Recipient of 2020 Festival Grant of the American Chemical Society's Committee on International Activities (IAC), Committee on Community Activities (CCA) and Society Committee on Education (SOCED)	2020
(xiv)	Recipient of the American Chemical Society 2020 Programming Grant	2020
(xv)	Recipient of 2021 Festival Grant of the American Chemical Society's Committee on International Activities (IAC), Committee on Community Activities (CCA) and Society Committee on Education (SOCED)	2021
(xvi)	Recipient of American Chemical Society's 2021 Student Group Development & Engagement Grant	2021

#### **MEMBERSHIP OF PROFESSIONAL BODIES / LEARNED SOCIETIES:**

Member, Third World Organisation for Women in Science, Italy.  
Member, American Chemical Society, USA.  
Member, Institute of Chartered Chemist of Nigeria  
Member, Chemical Society of Nigeria  
Member, Scientific Officers Association of Nigeria  
Member, Teachers Registration Council of Nigeria.  
Member, The World Academy of Science, Italy.  
Member, Congress of Essential Oil Distillers and Analysts of Nigeria (CEODAN)  
Member, Asian Council of Science Editors  
Member, Organisation for Women in Science for the Developing World

#### **DETAILS OF TEACHING EXPERIENCE AT UNIVERSITY LEVEL**

Associate Professor at University of Ibadan - 2008 to date

**(a) Courses taught at the University of Ibadan from April 2008 to date:**

CHE 277- Polyfunctional groups and Aromatic Chemistry with mechanism of Reactions  
CHE 277 - Practical Chemistry  
CHE 358 - Macromolecules and Stereochemical Principles  
CHE 377 - Heterocyclics, Carbocyclics and Reaction mechanisms  
CHE 377 - Practical Chemistry  
CHE 474 - Pericyclic reactions, heterocyclic and naturally occurring compounds  
CHE 476 - Photochemistry and Biologically active natural products  
CHE 481 - Chemistry Seminars  
CHE 495 - Final year project  
CHE 765 - Advanced Natural Products  
CHE 766 - Organic Synthesis  
CHE 771 - Petroleum Geochemistry  
CHE 793 - Experimental Techniques in Organic Chemistry  
CHE 796 - M Sc. Project  
CHE 865 – Recent Advances in Natural Products Chemistry and Organic Synthesis

**(b) Number of Students Supervised – 2008 to date**

Undergraduate (B.Sc) :	28 Students
Postgraduate including Research Students:	11 Students (MSc/PhD)

**UNIVERSITY AND DEPARTMENTAL DUTIES**

- (1) Member, Undergraduate Registration Committee (2008 to date)
- (2) Undergraduate seminar (CHE 481) Coordinator (2008- 2016)
- (3) Organic Chemistry unit seminar Coordinator (2008-2016).
- (4) Departmental representative: E-learning project (2010-2012)
- (5) Departmental representative: Training-of-trainers (TOT) on Conservation, Preservation and Museum Administration (2011-2012).
- (6) Member Postgraduate Registration/Examination Committee (M.Sc. Matters) (2012-2017)
- (7) Member Departmental Staff/Student Advisory Coordinating Committee (2013-date)
- (8) Faculty of Science Representative to Faculty Board of Agriculture and Forestry (2015/2016 session)
- (9) Member Postgraduate Registration/Examination Committee (M.Phil and Ph.D Matters) (2017/2018 session -date).
- (10) Time Table Officer for Chemistry Department (2017/2018 session - date)
- (11) Congregation Representative to Senate, Boards and Committees (18 July, 2018-date)

- (12) Faculty of Science Representative to Faculty Board of Veterinary Medicine (2017/2018 session)
- (13) Faculty of Science Representative to Faculty Board of Veterinary Medicine (2018/2019 session - date)

## COMMUNITY SERVICE

- (1) Natural Product Research Consultant/Adviser to Herbal Medicine Practitioners (Ministry of Health).
- (2) Participated and delivered Lectures as Resource person at Seminars and Workshops organised by Department of Food, Drugs and Laboratory Services, Oyo State Ministry of Health, Ibadan to Food vendors, Liquor sellers, packaged water producers etc.
- (3) Student Adviser/Counsellor
- (4) Technical Adviser/Consultant, GKO Global Resources Ltd (GKO Pharma, GKO Foods and GKO Publishers)- An SME for Youth Empowerment and Training.
- (5) Facilitator/Project Supervisor of Chemistry for under/postgraduate students at National Open University of Nigeria.
- (6) Guest Facilitator, for AuthorAID online Course in Research Communication Course (International Network for the Availability of Scientific Publications (INASP), UK).
- (7) Matron, Nile House (Yellow House) Francis 'M' College Iwajowa L/out, Bodija Ibadan, Oyo State.
- (8) Faculty advisor, Student Chapter of the American Chemical Society of National Open University of Nigeria, Ibadan Study Center.

## RESEARCH

### Research Completed

1. Phytochemical investigation of *Crinum ornatum* bulb, *Hura crepitans*. *Dieffenbachia picta* extracts

Extraction, purification and characterization of isolated compounds from *Crinum ornatum* bulb revealed that the plant contained secondary metabolites which have antioxidant and anticonvulsant principles justifying its use in traditional medicine practise. The essential oil also contained cytotoxic compounds which can be beneficial in the treatment of diseases involving cell or tumor growth. *Hura crepitans* and *Dieffenbachia picta* are two other plants which active components have been reported to contain microbial and oxidation inhibition properties. Papers 3 - 5, 11, 12, 19, 39 and 45 reflected some of the results obtained.

2. Phytochemical investigation of *Alchornea laxiflora* and *Quassia Amara* used as antioxidant and hepatoprotective agents in ethno medicine

*Alchornea laxiflora* is another plant with antioxidant flavonoids, the extracts of which were shown to have hepatoprotective constituents. Quercetin being the major compound isolated has proven antioxidant activity. It was a collaborative research done with other researchers. Paper 9 summarizes the research findings. The effects and possible mechanism of action of *Quassia Amara* (L. Simaroubaceae) extract and its bioactive principles in Rats as well as the cytotoxicity and acute oral toxicity of Quassin, one of the major metabolites are reported in Papers 7, 16, 21 and 31.

3. Synthesis and biological evaluation of N-Mannich Bases

Classical and variant approaches to synthesis of N-Mannich bases of phenyl hydroxyl ketones, their characterization, and biological activities. Novel Mannich bases have been shown to have microbial and oxidation inhibition activities. Papers 13, 30, 31, 34 and 40 summariesd some of our findings.

(a) **In progress**

1. Chemical composition, antioxidant, antimicrobial, enzyme inhibition and hepatoprotective activities of *Larpotea aestuans* and *Albizia zygia*.

The research was started in 2015 to isolate and characterise the secondary metabolites responsible for the enzyme inhibition and hepatoprotective activities of *Larpotea aestuans* and *Albizia zygia* used in ethno-medicine. So far, the crude extracts from these plants have been shown to possess these activities. Novel chemical compounds have been isolated and subjected to bioassay. Report of analysis is being processed.

2. Application of Lignin in drug synthesis using Mannich reaction.

Lignin is a constituent of many plants but with little or no application in medicine. Research on use of Lignin was commenced in 2016. Literature search has shown that it can be used to cure many ailments but the focus in this research is its use as anti-cholesterol agent. Lignin based Mannich bases are intended to be prepared and characterised. Variant approach to synthesis of Mannich bases will be embarked upon as this will give further insight into structural activity relationship of the bases. It is expected that the activity will also be established scientifically.

3. Bioactive antiviral constituents of *Anogeissus leiocarpus* (DC.) Guill. & Perr. (Combretaceae) and *Vitex chrysocarpa* Planch. ex Benth.

This research was started in January 2017. The recent outbreak of viral diseases like Ebola, and Zika necessitated the research. Two Plants used in Traditional Medicine

*Anogeissus leiocarpus* (DC.) Guill. & Perr. (Combretaceae) and *Vitex chrysocarpa* Planch. ex Benth. to treat viral disease have been collected and extracted. Chromatographic separation is on and HPLC-MS analysis of the methanol extracts gave metabolites of medicinal importance. Antiviral screening is currently on.

### **Current Research Interest**

- (i) Chemistry of Natural Products and their Medicinal Uses.
- (ii) Phytochemical evaluation of Medicinal Plants with emphasis on antioxidant, anticancer and hepatotoxic activities.
- (iii) Isolation and Characterisation of bioactive chemical compounds from plants
- (iv) Synthesis of Schiff and Mannich Bases and investigation of their biology activities

### **RECENT SCIENTIFIC PUBLICATIONS**

1. **Oloyede G. K.**, Oke, M.J., Raji, Y. and Olugbade, A.T. (2010). Antioxidant and Anticonvulsant Alkaloids in *Crinum ornatum* Bulb Extract. World Journal of Chemistry 5 (1): 26-31.
2. **Oloyede G. K.** and Farombi, O. E. (2010). Antioxidant Properties of *Crinum ornatum* Bulb Extract. World Journal of Chemistry 5 (1): 32-36.
3. **Oloyede G. K.**, Oladosu, I.A. and Shodia, A.F. (2010). Chemical Composition and Cytotoxicity of the essential oils of *Crinum ornatum* (Ait) Bury. African journal of Pure and Applied Chemistry. 4 (3): 35-37.
4. O.O. Aiyelaagbe, Oladosu, I.A., Olaoluwa, O.O., Aboaba, S.A., **Oloyede G. K.** and Onah, D.U. (2010). Chemical Composition and Cytotoxicity of the essential oil of Nigerian *Momordica charantia* (Hook). International Journal of Essential Oil Therapeutics 4: 26-28.
5. **Oloyede G. K.**, Onocha, P.A., Soyinka, J. Oguntokun, O. and Thonda, E. (2010). Phytochemical Screening, Antimicrobial and Antioxidant activities of four Nigerian Medicinal Plants. Annals of Biological Research 1(2): 114-120.
6. **Oloyede G. K.**, Oladosu, I.A., Shodia, A.F. and Oloyade, O.O. (2010). Cytotoxic Effects of *Tabebuia rosea* oils (Leaf and Stem bark). Archives of Applied Science Research 2 (3): 127-130.
7. **Oloyede G. K.**, Oladosu, I.A. Oloyade, O.O. (2010). Chemical composition and cytotoxic effect of *Lagerstroemia speciosa* fruits essential oils. International Journal of Biological and Chemical Sciences 4 (5): 1851-1854.
8. Onocha, P.A., **Oloyede G. K.** and Bamkole, O. A. (2010). Volatile Oil Composition, Cytotoxicity and free radical scavenging of leaves and twigs of the Chenille plant (*Acalypha hispida*). International Journal of Essential Oil Therapeutics 4: 86-89.
9. **Oloyede G. K.** and Onocha, P.A. (2010). Oxygenated chemical constituents, brine shrimp toxicity and free radical scavenging activity of leaf essential oils of *Alchornea cordifolia* (Schumach. & Thonn.) Mull. Arg. International Journal of Essential Oil Therapeutics 4: 104-107.



10. **Oloyede, G. K.** (2010). Chemical composition, toxicity, antimicrobial and antioxidant activities of the essential oil of *Peperomia pellucida* (Piperaceae) from Nigeria. *International Journal of Essential Oil Therapeutics* 4: 143-148.
11. Onocha, P. A., **Oloyede, G. K.** and Olasunkanmi, G. S. (2011). Chemical Composition, Brine shrimp toxicity and Free radical Scavenging activity of Leaf essential oil of *Acalypha ornata* (Hochst). *Advances in Environmental Biology* Vol. 5, No. 1, 188-193.
12. Onocha, P.A. **Oloyede G. K.** and Afolabi, O. Q. (2011). Phytochemical Investigation, cytotoxicity and free radical scavenging activities of non-polar fractions of *Acalypha hispida* (leaves and twigs). *Experimental and Clinical Sciences (EXCLI) Journal* 10: 1-8.
13. Onocha, P.A. **Oloyede G. K.** and Bamkole, O. A. (2011). UV-Visible Investigation of Antioxidant and Toxicity Activities of Methanolic Fractions of *Acalypha hispida* (Burn .f) Leaves. *European Journal of Scientific Research* 49 (3): 322-331.
14. **Oloyede G. K.,** Onocha, P.A. and Abimbade, S. F. (2011). Chemical Composition, Toxicity, Antimicrobial and Antioxidant activity of Leaf and Stem Essential Oils of *Dieffenbachia picta* (Araceae). *European Journal of Scientific Research* 49 (4): 567-580.
15. Onocha, P.A., **Oloyede G. K.** and Afolabi, O. Q. (2011). Cytotoxicity and free radical scavenging activities of hexane fractions of Nigeria specie of African pear (*Dacryodes edulis*). *International Journal of Biological Chemistry* 5 (2): 143-149.
16. **Oloyede G. K.** and Raji, Y. (2011). Preliminary Anticonvulsant Screening of *Crinum ornatum* Bulb Extract. *African Journal of Basic and Applied Sciences* 3 (5): 235-238.
17. **Oloyede G. K.** and Olatinwo, M. B. (2011). *In vitro* antioxidant activity of extracts from the leaves of *Hura crepitans* (Euphorbiaceae) - a comparison of two assay methods *Cell Membranes and Free Radical Research Journal* 3 (1): 133- 138.
18. **Oloyede G. K.,** Onocha, P.A. and Oke, J. M. (2011). Mannich Synthesis of 2-(Thiazol-4-yl)-1H-benzimidazole-2-methylene Piperazinyl (2,5 -Diamino-1,3,4-thiadiazolyl) Oxamide and Evaluation of the Filaricidal Activity. *American-Eurasian Journal of Scientific Research* 6 (2): 116-122.
19. Onocha, P.A. and **Oloyede G. K.** (2011). UV – Visible analysis of Free radical scavenging activities of *Dacryodes edulis* G. Don Lam (Burseraceae): A comparison of three assay methods. *Advances in Environmental Biology* 5 (9): 2913-2918.
20. Onocha, P.A. and **Oloyede G. K.** (2011). Chemical composition and Free radical scavenging activity of Leave essential oils of *Acalypha torta*. *Advances in Environmental Biology* 5 (9): 2626-2630.
21. Fasola, T. R., **Oloyede G. K.** and Aponjolosun, B. S. (2011). Chemical composition, toxicity and antioxidant activities of essential oils of stem bark of Nigerian species of Guava (*Psidium guajava* linn.) *Experimental and Clinical Sciences (EXCLI) Journal* 10: 34-43.
22. Onocha, P.A., **Oloyede G. K.** and Olasunkanmi, G. S. (2011). Phytochemical Investigation of methanolic fractions of *Acalypha ornata* (Hochst) leaves for antioxidant and toxicity activities. *Journal of Chemical and Pharmaceutical Research* 3 (1): 457-466.
23. Onocha, P.A., **Oloyede G. K.** and Afolabi, O. Q. (2011). Chemical composition, cytotoxicity and antioxidant activity of Essential oils of *Acalypha hispida* flowers. *International Journal of Pharmacology* 7 (1): 144-148.

24. **Oloyede G. K.**, Onocha, P.A., Adaramoye, O. A. and Thonda, E. S. (2011). Hepatoprotective activity and flavonoids of *Alchornea laxiflora* Leaves Extract Research Journal of Phytochemistry 5 (4): 190-200.
25. Onocha, P. A., **Oloyede G. K.**, Dosumu, O. O. and Ali, M. S. (2011). Antileishmaniasis and Phytotoxicity of three Nigerian *Acalypha* species. Archives of Applied Science Research, 3 (6): 1-5
26. **Oloyede G. K.**, Onocha, P. A. and Olaniran, B. B. (2011). Phytochemical, toxicity, antimicrobial and antioxidant screening of solvent extracts from *Peperomia pellucida* from Nigeria. Advances in Environmental Biology 5 (12): 3700-3709.
27. Sonibare, M.A., **Oloyede G. K.** and Adaramola, T. F. (2011). Antioxidant and Cytotoxicity evaluations of two Species of *Blighia* providing clues to Species Diversity. Electronic Journal of Environment, Agricultural and Food Chemistry 10 (10): 2960-2971.
28. Onocha, P. A., **Oloyede G. K.** and Owoye, F. F. (2011). Phytochemical, Cytotoxicity and Free radical scavenging activities of *Acalypha torta* Leaf extracts (Euphorbiaceae). Archives of Applied Science Research, 3(6): 413-422.
29. **Oloyede G. K.**, Onocha, P. A. and Abimbade, S. F. (2012): Phytochemical, toxicity, antimicrobial and antioxidant screening of extracts obtained from *Dieffenbachia picta* (Araceae) Leaves and Stem. Journal of Science Research 11(1): 31- 44.
30. **Oloyede G. K.** (2012). Antioxidant activities of Methyl ricinoleate and Ricinoleic acid dominated *Ricinus communis* seeds extract using Lipid peroxidation and Free radical scavenging methods. Research Journal of Medicinal Plant 6 (7): 511-520.
31. Raji, Y. and **Oloyede, G. K.** (2012). Antiulcerogenic Effects and Possible Mechanism of Action of *Quassia Amara* (L. Simaroubaceae) Extract and Its Bioactive Principles in Rats Africa Journal of Traditional, Complementary and Alternative Medicines. 9(1): 112-119.
32. Adaramoye, O.A. and **Oloyede, G. K.** (2012). Effect of Moderate Ethanol Administration on Biochemical Indices in Streptozotocin-diabetic Wistar Rats West Indian Med J Vol 61 (1): 3-961 (1): 3-9.
33. Fasola, T. R., **Oloyede, G. K.** and Bello, S. I. (2012). Phytochemical Investigation of Guava (*Psidium guajava* linn.) stem bark for haematological indices in albino Swiss Rats Electronic Journal of Environment, Agricultural and Food Chemistry 11 (4): 315-327.
34. Ajila, J.M. and **Oloyede, G. K.** (2012). *Vernonia amygdalina* leaf extracts: A source of non - cytotoxic antioxidant agents. Electronic Journal of Environment, Agricultural and Food Chemistry 11 (4): 339-350.
35. **Oloyede, G. K.** and Ogunlade, A. O. (2013). Phytochemical screening, antioxidant, antimicrobial and toxicity activities of polar and non- polar extracts of *Albizia zygia* (DC) stem-bark. Annual Review and Research in Biology 3(4): 1020-1031.
36. **Oloyede, G. K.** and Oyelola, M. S. (2013). Chrysen-2-ol derivative from West Indian Wood Nettle *Laportea aestuans* (L.) Chew inhibits oxidation and microbial growth *in vitro* Experimental and Clinical Sciences (EXCLI) Journal 12: 894-906.
37. **Oloyede, G. K.**, Adaramoye, O. A. and Oguntokun, O. J. (2013). Phytochemical and Hepatotoxicity studies on *Adansonia digitata* Leaves Extract. Journal of Experimental and Applied Animal Sciences (JEAAS) 1: 25-34.
38. **Oloyede, G. K.** and Ayanbadejo, O.E. (2014). Phytochemical, toxicity, antimicrobial and antioxidant screening of extracts obtained from *Larpetea aestuans* (Gaud). Journal of Medical Science (Science Alert) 14(2): 51-59.

39. Obembe, O. O., **Oloyede, G. K.** and Raji, Y. (2014). Cytotoxicity and Acute Oral Toxicity Study on Quassin and Fractions of *Quassia amara* Extract. International Journal of Sciences: Basic and Applied Research (IJSBAR) 13 (1): 139-144.
40. **Oloyede, G. K.**, Fisayo-Bambi. E. and Nwachukwu, T. E. (2014). Spectroscopic properties and antimicrobial activity of synthesized Mannich bases: 1-Phenylaminomethyl-naphthalen-2-ol and (2-{{[2 – hydroxy ethyl] amino} methyl}phenyl) phenyl peroxyanhydride. American J. of Drug Discovery and Development (Science Alert) 4(2): 113-120.
41. **Oloyede, G. K.** and Omisakin, O. O. (2014). Synthesis, ionization constant, toxicity, antimicrobial and antioxidant screening of 1-Phenyl-3-(phenylamino) propan-1-one and Phenyl (2-[phenyl amino) methyl] phenyl) peroxyanhydride Mannich bases The International Institute for Science, Technology and Education. (IISTE) Chemistry and Materials Research Journal 6 (2): 78-91.
42. **Oloyede, G. K.**, Abimbade S.F. and Nwabueze C. C. (2014). Antioxidant and toxicity screening of extracts obtained from *Cyperus esculentus* Academia Arena. 6(1): 77-83.
43. **Oloyede, G. K.** and Olatinwo, M. B. (2014). Phytochemical investigation, toxicity and antimicrobial screening of essential oil and extracts from leaves and stem bark of *Hura crepitans* (Euphorbiaceae) Academia Arena 6(5):7-15.
44. **Oloyede, G. K.**, Willie, I. E. and Adeeko, O. O. (2014). Synthesis of Mannich bases: 2-(3-Phenylaminopropionyloxy)-benzoic acid and 3-Phenylamino-1-(2, 4, 6-trimethoxy-phenyl)-propan-1-one, their toxicity, ionization constant, antimicrobial and antioxidant activities. Food Chemistry Journal (Elsevier) 165: 515-521.
45. **Oloyede, G. K.** and Abimbade S. F. (2014). *In vitro* Antioxidant assay of Cocoa (*Theobroma cacao*) oil and cake. Assumption University Journal of Technology 17 (3): 101-108.
46. Fasola T. R., **Oloyede, G. K.** and B. S. Aponjolosun (2014). Guava (*Psidium guajava* Linn.) stem bark extracts: Toxicity and Free radical scavenging activity. Academia Arena Volume\_6(7): 50-58
47. **Oloyede G.K.** and Egbewole I. S. (2014) Chemical constituents and antimicrobial activity of essential oil of *Combretum hispidum* leaves Assumption University Journal of Technology Volume 18, No 2, 69-74
48. **Oloyede G. K.**, and O. A. Ogunlade (2015). Free radical scavenging and Toxicity of Linalool and Thymol dominated essential oils of *Albizia zygia* Leaves and Stem-bark Research Journal of Medicine and Medical Sciences, 10(2): 33-40.
49. **Oloyede, G. K.**, Adaramoye O. A. and Olatinwo, M. B. (2015) Chemical constituents of Sandbox Tree (*Hura crepitans* Linn.) and anti-hepatotoxic activity of the leaves and stem bark extracts West Indian med J. (Accepted August 25, 2015; DOI: 10.7727/wimj2015.247
50. **Oloyede G. K.**, Onocha, P. A. and Olisa D. I. (2015): Synthesis, microbial growth and oxidation inhibitory properties of three Mannich bases. Chemistry and Materials Research 7 (8), 63-69.
51. Onocha P. A., **Oloyede, G. K.** and Odeja O. O. (2015): Hydroxyl radical scavenging, antimicrobial and toxicity screening of *Sterculiar tragacantha* Lindl (Malvaceae) International Journal of Environmental Engineering– IJEE 2 (2): 20-26.
52. Onocha, P.A., Odusina B. O. and **Oloyede, G. K.** (2015). Phytochemical and Bioassay Investigation of Extracts of *Alternanthera nodiflora* (L.) R. BR. and *Physalis angulanta* SENDTN Journal of Science Education and Research 1(2): 69-82.

53. **G. K. Oloyede** (2016). Toxicity, antimicrobial and antioxidant activities of methyl salicylate dominated essential oils of *Laportea aestuans* (Gaud). Arabian Journal of Chemistry Arabian Journal of Chemistry 9, S840–S845
54. Onocha P. A., **Oloyede, G. K.** and Johnny, E. U. (2016). Free radical scavenging activity and toxicity of Node weed (*Synedrella nodiflora*) extracts Chemistry Journal 6(1):93-97.
55. Onocha P. A., **Oloyede G.K.**, Abegunde M. L., and Oluwafemi A. K. (2016): Antioxidant, toxicity and phytochemical screening of extracts obtained from *Mariscus alterifolious* Vahl Journal of Natural Sciences Research (IISTE) 6 (5): 1-7
56. **Oloyede G. K.** and Ofole N.M. (2016). Media usage, Religiosity and Gender as Determinant of Performance in Chemistry Subject Journal of Education and Practice (IISTE) 7(7): 47-56.
57. Onocha, P.A., **Oloyede, G. K.** and Akintola, J. A. (2016).Chemical composition, free radical scavenging and antimicrobial activities of essential oil of *Mariscus alternifolius* Vahl The Open Conference Proceedings Journal, (7): 160-167
58. **Oloyede G.K.**, Udeh U. E. and Puusu M. E. (2016). Free Radical Scavenging Activity of Sesquiterpene indole and Caryophyllene dominated Leaf and Stem essential oils of *Secamone afzelii* (Schult) K. Schum and *Pergularia daemia* (Forsk) Chiov (Asclepiadaceae). University of Ibadan, Journal of Science Research Vol. 15: 81-88.
59. **Oloyede, G. K.**, Onocha P. A., Ali, M. S., and Lateef M.(2017). Free Radical Scavenging Activity Of Non Saponifiable Lipids From *Dieffenbachia Picta* (Lodd.) Schott. Leaves and Identification of a Lanostane Triterpenoid *Journal of Natural Sciences Research* 7(20): 17-23.
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66. **Oloyede, G. K.**, Ali, M. S and Lateef, M.(2019) Enzyme inhibition, Antioxidant and Insecticidal activities of flavonoids and fixed oil from *Albizia zygia* (J. F. Macbr) Life Science Journal Life Science Journal 2019;16(5) 33-40
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68. Okpala, E. O., **Oloyede, G. K.**, Onocha, P.A (2019). Chemical Composition, Antimicrobial and Antioxidant Activities of Volatile Oil of *Euphorbia graminea* JACQ From Nigeria Proceedings of 195<sup>th</sup> IASTEM International Conference London UK. 7<sup>th</sup>- 8<sup>th</sup> August 2019, pp 25-27.
69. **Oloyede G. K.**, Ogunsile B.O., Ali M.S, and. Ngouonpe W.A. (2019) Antioxidant activity of Lignin -Mannich bases Synthesised by Amination reactions J. Chem Soc. Nigeria, 44(7): 1276 -1282
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71. **Oloyede G. K.**, Odeja O.O., Bamkole O.A., Akanmu W.A. and Onocha P. A. (2020) Hispanimide: An Antioxidant Phenolic Propanamide from the Leaves of *Acalypha hispida* (Burn. F) J. of Natural Science Research 11(14): 11-16.
72. **Oloyede G. K.**, Ibok M.G. and Ojo T.K. (2021). Chemical Constituents, Antimicrobial and Antioxidant Activities of *Leptoderris brachyptera* (Benth.) Dunn and *Leptoderris micrantha* Dunn Essential Oils Trends in Phytochemical research (TPR) 5(1): 13-23 doi: 10.30495/tpr.2021.680481

## CONFERENCES AND WORKSHOPS ATTENDED

1. Department of Pharmaceutical Chemistry, College of Medicine, University of Ibadan – 2<sup>nd</sup> National workshop on Drug and Food Quality Assurance “Towards better quality Assurance of Drugs and Foods in the 21<sup>st</sup> century”. 12 – 16 May 1997.
2. Department of Pharmaceutical Chemistry, College of Medicine, University of Ibadan and NAFDAC, Training workshop on detection and identification of counterfeit and substandard pharmaceutical products, 6 – 10 July 1998.
3. **Raimi G.K.** (2000). Food and Drink, Quality or Quantity. Paper presented at the Oyo State Ministry of Health, Ibadan – 2 day sensitization workshop for sweetened drinks producers in Oyo State. 27-28 September, 2000.
4. Department of Pharmaceutical Chemistry, College of Medicine, University of Ibadan – 4<sup>th</sup> National workshop on Drug Quality Assurance. Biopharmaceutical Methods in Drug Quality Assurance. 20-24 August, 2001.
5. Oyo State Ministry of Health and Ultimate Reflection Ltd – 2 day seminar/workshop on Safe Water and Environmental Management for all Package water producers in Oyo State, 13 – 14 February 2002.
6. **Raimi G.K.** (2002). Presentation of Proton NMR Spectrum of Heamanthamine. Paper presented at The Central Science Laboratory, Obafemi Awolowo University Ile-Ife.

- Training workshop on “Separation and Spectroscopic Techniques in Natural Product Research, Pharmaceutical Analysis and Synthesis”. 14-16 October, 2002.
7. **Oloyede G. K.** (2002). Liquor Trading within the context of the existing law/ Traders Legal Protection. Paper presented at the Oyo State Ministry of Health and Organisation for Human Life Protection – 1 day Seminar on Ensuring Decorous Liquor trade in Oyo State. Sensitizing, Protection and Control. 19<sup>th</sup> December, 2002.
  8. Oyo State Ministry of Health and The United Bottlers Association – 1 day Seminar on the control of hazards/infections in Beverage production. 19<sup>th</sup> February, 2003.
  9. **Oloyede G. K.** (2003). Salient features of Food Manufacturing Process and Pro-active Approach to Food Safety. Paper presented at the Oyo State Ministry of Health, and Timbeth Consult, 2–day Seminar/ Workshop on “Good Manufacturing Practice; A necessity for the prevention and control of hazards/infections in Beverage production”. 3-4 April, 2003.
  10. **Oloyede G. K.** (2004). Liquor Trading within the context of the existing law vis-à-vis Traders protection. Paper presented at the Oyo State Ministry of Health and The United Bottlers Association – 1 day Training Workshop on Control of the use of Ethanol in Hot drinks production. 20<sup>th</sup> May, 2004.
  11. University of Ibadan Consultancy Services Unit in collaboration with Department of Pharmaceutical Chemistry, University of Ibadan, Training Workshop on Analytical process skill enhancement workshop for Pharmaceutical/ Drug Analysts. 23 – 27 August, 2004.
  12. **Oloyede G. K.** (2010). Best Practises for the inclusion of Women in Science and Technology: The South-western Nigeria experience. Paper presented at the Third World Organisation for Women in Science (TWOWS) Fourth General Assembly and International Conference: *Women Scientists in a Changing World* 27-30 June 2010, Beijing, China.
  13. Training Workshop on E-learning organised by the University of Ibadan in conjunction with Partnership for Higher Education Initiative (PHEI)-SAIDE. 3<sup>rd</sup> -5<sup>th</sup> March 2011, Oshogbo, Nigeria.
  14. 3-Day – Museum Administration Training- of- trainers (TOT) Workshop on Conservation, Preservation and Museum Administration organised by University of Ibadan Cultural Heritage Museum, 27<sup>th</sup> -29<sup>th</sup> July, 2011 University of Ibadan, Nigeria.
  15. **Oloyede, G.K.** and Olukoyejo E. Ayanbadejo (2011). Phytochemical, toxicity, antimicrobial and antioxidant screening of extracts obtained from *Laportea aestuans* (Gaud). Paper presented at the Chemical Society of Nigeria (CSN) 34<sup>th</sup> Annual International Conference, Workshop & Exhibition KWARA 2011. Theme: Chemistry and the Millennium Development Goals. 19<sup>th</sup> - 23<sup>rd</sup> Dec 2011, University of Ilorin, Ilorin Nigeria.
  16. University of Ibadan World Bank Step-B Project, Training Workshop on Courseware Development for Women 7<sup>th</sup> May, 2012, University of Ibadan, Nigeria.
  17. Faculty of Science University of Ibadan, Training Workshop on Responsible Conduct in Research 25<sup>th</sup> -26<sup>th</sup> July, 2012, Lakeside Lecture theatre University of Ibadan, Nigeria.
  18. University of Ibadan Centre for Sustainable Development (CESDEV), in conjunction with Centre for Social Orientation (CenSo), Training and Orientation for New UI Staff (Phase II) 18<sup>th</sup> -20<sup>th</sup> December, 2012, University of Ibadan, Nigeria.
  19. Faculty of Science University of Ibadan, International Conference on Science and Sustainable Development in Nigeria 13<sup>th</sup> -17<sup>th</sup> May, 2013, Conference Centre, University of Ibadan, Nigeria.

20. National Library of Nigeria, Oyo State Branch, One – day Seminar on Book Publishing; Contemporary Issues organised for Stakeholders in Book Publishing. 8<sup>th</sup> December, 2014 at the National Library of Nigeria, Oyo State Branch, Iyaganku G.R.A. Ibadan, Oyo State.
21. Fasola T. R., **Oloyede, G. K.** and Aponjolosun, B. S. (2015). Guava (*Psidium guajava* Linn.) stem bark extracts: Toxicity and Free radical scavenging activity. Paper presented at the Faculty of Science University of Ibadan, 2<sup>nd</sup> International conference on Scientific research and innovation in Nigeria 16<sup>th</sup>- 20<sup>th</sup> March, 2015.
22. Onocha P.A, **Oloyede G. K.** and Odeja O. O. (2015): Hydroxyl radical scavenging, antimicrobial and toxicity screening of *Sterculiar tragacantha* Lindl (Malvaceae), Paper presented at the “Third International Conference on Advances in Bio-Informatics, Bio-Technology and Environmental Engineering - ABBE 2015” organized by Institute of Research Engineers and Doctors at Birmingham City University (North Campus), Birmingham, UK. 26 - 27 May, 2015 pp 52-58.
23. Onocha P.A, **Oloyede G. K.** and Akintola J. A. (2015): Chemical composition, free radical scavenging and antimicrobial activities of essential oil of *Mariscus alternifolius* Vahl. Paper presented at the Drug Discovery and Therapy World Congress, 22-25 July 2015 at John B. Hynes Veterans Memorial Convention Center, Boston, USA.
24. Fasola T. R., **Oloyede G. K.** and Oladipo F.M. (2015): Phytochemical and Antibacterial activity of *Morinda lucida* (Benth) stem bark extracts on some clinical isolates. Botanical Society of Nigeria 3<sup>rd</sup> International Conference and Exhibition. 16<sup>th</sup> -20<sup>th</sup> August 2015, Dept of Botany, University of Lagos.
25. Chemical Society of Nigeria (CSN) 38<sup>th</sup> Annual International Conference, Workshop & Exhibition Annual General Meeting And FASC Congress (Abuja, 2015). Theme: Shaping Chemistry of Natural Resources into Sustainable Product development for Combating Current and Future Challenges of Global Health. 20 - 25 September, 2015, ICC, Garki Abuja.
26. **Oloyede, G. K.**, Adaramoye, O. A. and Olatinwo, M. B. (2016): Chemical Constituents of Sandboxtree (*Hura crepitans* Linn.) and Anti-hepatotoxic activity of the leaves and stem bark extracts. Chemical Society of Nigeria (CSN) 39<sup>th</sup> Annual International Conference, Workshop, Exhibition, Annual General meeting (Garden City 2016). Theme: Shaping Chemistry of Natural Resources into Sustainable Product Development for combating Current and Future Challenges of Global Health. 18 - 25 September 2016, Port Harcourt Rivers State, Nigeria.
27. International Centre for Chemical and Biological Sciences (ICCBS, Pakistan), Sandia national Laboratories (SNL, USA) and U.S. Civilian Research and Development Foundation (CRDF Global, USA) jointly organised webinar entitled “Training on Chemical Risk Management & Assessment of Chemical Security Risks” 12 November, 1 & 3 December, 2016 at L.E.J. National Science Information Centre ICCBS, University of Karachi.
28. **Oloyede, G. K.**, Udeh, U.E. and Puusu, M.E. (2016): Free Radical Scavenging Activity of Sesquiterpene indole and Caryophyllene dominated Leaf and Stem essential oils of *Secamone afzelii* (Schult) K. Schum and *Pergularia daemia* (Forsk) Chiov (Asclepiadaceae). 14<sup>th</sup> EURASIA Conference on Chemical Sciences (EuAsC<sub>2</sub>S-14). 15-18 2016 International Centre for Chemical and Biological Sciences, University of Karachi.
29. Virtual Education Project Pakistan (VEPP) and Latif Ebrahim Jamal National Science and Information Centre, International Centre for Chemical and Biological Sciences (ICCBS), University of Karachi, Pakistan, jointly organised Workshop on

Scientific Writing, 26-28 December, 2016 at L.E.J. National Science Information Centre ICCBS, University of Karachi.

30. **Oloyede G. K.** (2017): Hindrances to development Traditional African Medicine - Nigeria in Perspective Paper presented as Invited Speaker at 4<sup>th</sup> Hamdard International Conference on Unani Medicine-2017 with theme “Unani Medicine: Past, Present and Future” January 9 – 11, 2017, at Bait al-Hikma Auditorium, Hamdard University, Madinat al-Hikma, Karachi, Pakistan.
31. **Oloyede G. K.** (2017): Herbal formulations in Nigeria: A survey of three major tribes. Paper presented at 4<sup>th</sup> Hamdard International Conference on Unani Medicine-2017 with theme “Unani Medicine: Past, Present and Future” January 9 – 11, 2017, at Bait al-Hikma Auditorium, Hamdard University, Madinat al-Hikma, Karachi, Pakistan.
32. CWC National Authority and Disarmament Coordination Cell (Ministry of Foreign Affairs, Pakistan), International Centre for Chemical and Biological Sciences (ICCBS, Pakistan), Virtual Education Project Pakistan (VEPP), Sandia National Laboratories, USA and CRDF Global, USA jointly organised webinar entitled “Implementation and Assessment of Chemical Safety and Security Risks in Academic Institution of Pakistan” 19 & 26, January and 2 February 2017 at L.E.J. National Science Information Centre ICCBS, University of Karachi.
33. International Centre for Chemical and Biological Sciences (ICCBS, Pakistan), One – day training and demonstration on handling Fire emergency situation/ Training/Practical demonstration on Use of Fire safety equipment. 16 February, 2017
34. Jamil-ur-Rahman Center for Genome Research (JRCGR), Dr Panjwani Centre for Molecular Medicine and Drug Research and International Centre for Chemical and Biological Sciences (ICCBS, Pakistan), University of Karachi jointly organised workshop on “Next Generation DNA Sequencing Data Analysis”, 27-29 March, 2017.
35. **Oloyede, G. K.**, Onocha P. A., Ali, M. S. and Lateef M. (2017). Free radical scavenging activity of non saponifiable lipids from *Dieffenbachia picta* (lodd.) Schott. Leaves and identification of a lanostane triterpenoid. 3rd International Conference on Scientific Research in Nigeria. Theme: Diversification of Nigeria’s Economy Through Science 16<sup>th</sup> - 19<sup>th</sup> May, 2015. Lakeside Lecture Theatre, Faculty of Science, UI.
36. **Oloyede G. K.** and Aderibigbe S.A. (2018). Chemical and Physicochemical Composition of Watermelon Seed Oil (*Citrullus lanatus* L.) and Investigation of the Antioxidant Activity *Sixth International Conference on Advances in Bio-Informatics, Bio-Technology and Environmental Engineering - ABBE’18 organized by Institute of Research Engineers and Doctors, U. S. A. at Novotel Zurich City - West Hotels Zurich, Switzerland.* 28 - 29 April, 2018. SEEK Digital Library Publishers.
37. **Oloyede, G. K.**, Ali, M. S., Lateef M. Anyaele, G. C. and Adeniyi E.M. (2018). Classical and variant approaches to Synthesis of N-Mannich bases of phenyl hydroxyl ketones, their Characterization, Urease inhibition and Antioxidant activities *256th American Chemical Society (ACS) National Meeting & Exposition* Boston, USA, 19 - 23 August, 2018.
38. Oloyede, G.K. , Ale, O. , Aderibigbe S.A. and Kolawole, B.K. Comparison of Physicochemical and Proximate Properties of Crude Rice Bran and Processed Rice (*Oryza Sativa*) Oils. *256th American Chemical Society (ACS) National Meeting &*



*Exposition Theme: Nanoscience, Nanotechnology & Beyond, Boston, USA, 19 - 23 August, 2018.*

39. Onocha, P.A., **Oloyede, G. K.**, Lawal I. B. and Madu P.I. (2018). Volatile oil composition and free radical scavenging activity of *Strophanthus hispidus*, *Byrsocarpus coccineus* and *Morus mesozygia* Paper presented at the Chemical Society of Nigeria (CSN) 41<sup>st</sup> Annual International Conference, Workshop, Exhibition, Annual General meeting (Ibadan 2018). Theme: Chemical Sciences in an Emerging Economy: Issues, Prospects and Opportunities. 16<sup>th</sup>-21<sup>st</sup> September 2018, Conference Centre, UI Hotels, University of Ibadan, Nigeria.
40. Oloyede, G. K., Lateef, M., Alli, B. G., and Balogun, K.Y (2019). Enzyme inhibition, free radical scavenging and insecticidal activities of crude extracts and isolates from *Laportea aestuans* (Gaud). 257<sup>th</sup> American Chemical Society (ACS) National Meeting & Exposition Theme: Chemistry For New Frontiers, Orlando, USA, 31 March - 04 April, 2019.
41. American Chemical Society National Open University of Nigeria Ibadan Study Center Chapter organized Chemistry Festival 2019 and Celebration of the International Year of Periodic Table. Theme: Ibadan for Chemistry 2019 - Use of hands - on activities to spread the importance of Chemistry 22<sup>nd</sup>-24<sup>th</sup> July 2019.
42. Association of Women in Science (AWIS) Philadelphia, ACS Division of Organic Chemistry and Empowering Women in Organic Chemistry Philadelphia jointly organised virtual conference on "Empowering Women in Organic Chemistry (EWOC) 2020", 13-14 August, 2020.
43. International E-Conference On Biotechnology, Bioinformation and Biomedicine 2020 (IECBBB-2020) organized by Faculty of Applied Sciences, AIMST University,, Kedah, Malaysia 24-26 August 2020. Theme: challenges and opportunities in Biotechnology Bioinformatics and Biomedicine in the Post –Covid Era.
44. Oloyede G. K. (2020). "A New Normal for Students in the era of COVID 19 pandemic". 2020 Virtual Africa Science Buskers Festival (Zimbabwe) in collaboration with American Chemical Society National Open University of Nigeria Chapter. 28-30 August, 2020.
45. Chemical Society of Nigeria (CSN) and Women In Chemistry jointly organized webinar on Strategies for a Successful career as a female Chemist. 1<sup>st</sup> September, 2020.
46. American Chemical Society National Open University of Nigeria Ibadan Study Center Chapter organized Science Workshop and Annual General Meeting. Topic: Capacity Building for Effective Project/Report Writing For Open and Distance Learning (ODL) 10 November, 2020.
47. American Chemical Society National Open University of Nigeria Ibadan Study Center Chapter organized Chemistry Festival 2020.Theme: Entrepreneurship: Use of hands on activity to spread the importance of Chemistry 13-19<sup>th</sup> November 2020.
48. Organization for women in Science for the Developing World (OWSD) organized Virtual Workshop. Theme: New Perspective in the COVID 19 Era. 27<sup>th</sup> January 2021.
49. Oloyede G. K. (2021): "Exploring the benefits of Phytochemistry and Techniques Involved in Isolation and Characterisation". American Chemical Society National Open University of Nigeria Ibadan Study Center Chapter organized Science Outreach/Professional Development. Theme: Opportunity For Distance Learner to gain Laboratory Experience 9<sup>th</sup> -11<sup>th</sup> March 2021.Herbal Production Center Forestry Research Institute of Nigeria (FRIN) Jericho, Ibadan Oyo State.
50. Oloyede G. K. (2021): "Caring for the Environment" 2021Physical and Virtual Workshop of American Chemical Society USA and American Chemical Society

Nigeria International Chemical Sciences Chapter 20<sup>th</sup> -22<sup>th</sup> March in commemoration of World Earth Day Celebration/Chemist Celebrate Earth Week, Theme: Reducing Our Footprint with Chemistry. National Open University of Nigeria Ibadan Study Center Chapter.

**CO-CURRICULAR ACTIVITIES:** - Reading and writing short stories

**LANGUAGES SPOKEN:** Yoruba, English and French

### **RESEARCH FOCUS**

My research activities have focused on investigating and screening Nigerian medicinal plants of different families; including Amaryllidaceae, Malvaceae, Euphorbiaceae, Piperaceae, Simaroubaceae, Fabaceae, Amaranthaceae, Araceae, Bignoniaceae, Lamiaceae, and Piperaceae; with the hope of scientifically justifying their local use and to discover and develop novel intervention agents. The objectives include isolation of active secondary metabolites, extraction and characterisation of essential oils and synthesis. The plants that I investigated were chosen on the basis of their use in ethnomedicinal practices in Nigeria and the West African sub-region to treat various infections ranging from convulsion, microbial infections, hepatotoxicity and diseases relating to oxidative stress.

Essential oils have been reported to contain active constituents responsible for medicinal activities of some plants and were extracted and characterised. A number of bioactive essential oils have been discovered for the first time from some of these plants. Specifically, I have carried out *in vitro* and *in vivo* bioassay of various fractions of different parts of different plants, isolated in pure form compounds responsible for their bioactivities, determined the structures of a number of bioactive compounds by means of modern spectroscopic techniques and derivatized some of the isolated bioactive compounds. I have also synthesized some drugs based on structural activity relationship.

My research group has also synthesized novel Mannich bases of phenyl hydroxyl ketones and their ionization constants; the filaricidal, toxicity, antimicrobial and antioxidant activities

were also evaluated. The bioactivity of these drugs showed that they can serve as useful intervention agents especially in this era of drug resistance. So far, the ethno-medicinal claims of the plants investigated have been justified and my research activities have led to isolation and structural determination of new natural products which are biologically active. Flavonoids, alkaloids and new derivatives of triterpenoids are some compounds reported from these studies. Also, the functional groups of the compounds isolated from the natural products could form the basis of chemical synthesis and can provide the nucleus of development of new drugs from the rich vegetations of Nigeria.

Dr Ganiyat K. Oloyede .....

Date.....

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