



**UNIVERSITY OF MEDICAL SCIENCES
ONDO
NIGERIA
FACULTY OF SCIENCE
DEPARTMENT OF CHEMISTRY**



CURRICULUM VITAE

A. PERSONAL DATA

Name: **OLOLADE, Zacchaeus Sunday (Ph.D.)**
Area of Specialization: Medicinal and Organic Chemistry (Pharmacognosy)
Date of Birth: 23rd March, 1975
E-Mail: sololade@unimed.edu.ng; zacchsnatpdt@gmail.com
Phone Number: +2348034836546; +2348034282970
Nationality: Nigerian
State of Origin: Ekiti
Senatorial District: Ekiti South
Local Government Area: Ikere
Permanent Home Address: 1, Baba Aladiye Avenue, Kajola Street, Ikere, Ekiti State
Marital Status: Married
Number of Children and their Ages: 3; (16, 13 and 10 years, respectively)
Next of Kin: Dr. Rachel Adetola Ololade
Institute of Health, Humanities and Entrepreneurship, University of Medical Sciences, Ondo, Nigeria
Contact Address of Next of Kin:
(a) E-mail address (es): rololade@unimed.edu.ng; raololade@gmail.com
(b) Mobile Phone Number(s): +2348034282970
Date of Assumption of Duty: 21st March, 2019
Rank/status on First Appointment: Senior Lecturer
Present Status: Associate Professor (Reader)
Date of Last Promotion: 1st October, 2022
Present Salary, Grade Level and Step: CONUASS 6 Step 2
Date of Confirmation of Appointment: 21st March, 2022.
Faculty: Science
Department/Unit: Chemistry/ Medicinal Organic Chemistry

EDUCATIONAL BACKGROUND:

Higher Education Institution Attended

	Date
• Ladoke Akintola University of Technology, Ogbomosho, Nigeria	2009 - 2015
• Ladoke Akintola University of Technology, Ogbomosho, Nigeria	2006 - 2008
• Ladoke Akintola University of Technology, Ogbomosho, Nigeria	1997 –2003
• Modesty Computer Training Centre, Damaturu, Yobe State, Nigeria	2004

- | | |
|--|-------------|
| • African Church Comprehensive High School (ACCHS), Ikere, Nigeria | 1986-1987 |
| • Annunciation School, Ikere, Ekiti State, Nigeria | 1987 - 1992 |
| • St. John's Primary School, Afawo, Ikere, Ekiti State, Nigeria | 1979 - 1986 |

Academic Qualifications

- | | Date |
|--|-------------|
| • Doctor of Philosophy (Ph.D.) Organic Chemistry | 2015 |
| • Master of Technology (M.Tech) Organic Chemistry | 2008 |
| • Bachelor of Technology (B.Tech) Pure and Applied Chemistry | 2002 |
| • Computer/Window Application | 2004 |
| • West African Senior School Certificate (WASSC) | 1992 |
| • Primary School Leaving Certificate | 1986 |

Work Experiences

1. Outside the University:

- | | Date |
|--|----------------|
| • Lecturer, Best Legacy College of Education, Ogbomoso | 2007-2009 |
| • Lecturer, Best Legacy School of Advance Studies (IJMB), Ogbomoso | 2005-2009 |
| • Assistant Examiner, A-Level Chemistry IJMB Examination. | 2008 |
| • Teacher, (NYSC), Leaders' Secondary School, Damaturu, Yobe State | 2004-2005 |
| • Spintex Textile Mill (Industrial Training), Ikorodu, Lagos State. | 2002 |
| • Reviewer Editor, a member of the Editorial Board, the Journal of Frontiers in Chemistry/Medicinal and Pharmaceutical Chemistry | 2019-till date |

2. In other University:

- | | |
|--|-----------|
| • Lecturer I, Bells University of Technology, Ota, Nigeria | 2016-2019 |
| • Lecturer II, Bells University of Technology, Ota, Nigeria | 2013-2016 |
| • Assistant Lecturer, Bells University of Technology, Ota, Nigeria | 2009-2013 |

3. In the University: UNIMED

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| • Coordinator, UNIMED Open Distance Learning | 2023-till date |
| • Acting Head, Department of Chemistry, University of Medical Sciences, Ondo, Nigeria. | 2020 - 2023 |
| • Senior Lecturer, University of Medical Sciences, Ondo, Nigeria. | 2019-till date |

4a. Courses at Taught at Postgraduate Levels in UNIMED

SN	COURSE	CODE	UNIT
1	Advanced Applied Spectroscopy	CHM 811	3
2	Advanced Pharmaceutical Organic Chemistry	MCH 811	3
3	Medicinal and Natural Products Analysis	MCH 812	3
4	Advanced Physical Organic Chemistry	MCH 813	3
5	Advanced Organic Synthesis	MCH 814	3
6	Heterocyclic Chemistry	MCH 815	2
7	Separation and Systematic Identification of Organic Compounds in Laboratory	MCH 816	2
8	Special Topics in Pharmacognosy	MCH 821	2
9	Advanced Natural Products Chemistry	MCH 822	3
10	Advanced Biosynthesis and Medicinal Plants Taxonomy	MCH 823	3
11	Quality Control of medicinal Plants	MCH 824	3
12	Advanced Drug Design and Metabolism	MCH 825	3
13	Advanced Radiopharmacy	MCH 826	2
14	Enzymes and Drug Action	MCH 827	2

15	Quantitative Spectroscopic Methods of Analysis	CHM 835	3
16	Chemistry of Foods	CHM 853	3
17	Research Project	MCH 899	6

b. Courses at Taught at Undergraduate Levels in UNIMED

SN	COURSE	CODE	UNIT
1.	General Chemistry I	CHM 111	3
2.	Practical Chemistry I	CHM 112	1
3.	General Chemistry II	CHM 121	3
4.	Practical Chemistry II	CHM 122	1
5.	Physical Chemistry I	CHM 211	2
6.	Inorganic Chemistry I	CHM 213	2
7.	Surface and Colloid Chemistry	CHM 215	2
8.	Organic Chemistry I	CHM 222	2
9.	Experimental Organic and Analytical Chemistry	CHM 223	1
10.	Catalysis and Enzymes	CHM 224	2
11.	Physical Chemistry II	CHM 311	2
12.	Applied Spectroscopy	CHM 312	2
13.	Carbohydrate Chemistry	CHM 315	2
14.	Colour Chemistry and Textile Technology	CHM 316	2
15.	Natural Products Chemistry I	CHM 318	2
16.	Organic Chemistry II	CHM 323	3
17.	Organometallic Chemistry I	CHM 324	2
18.	Polymer Chemistry I	CHM 325	2
19.	Research Methodology	CHM 327	3
20.	Experimental Organic Chemistry	CHM 328	1
21.	Group Theory and Symmetry	CHM 411	2
22.	Reaction Kinetics	CHM 412	2
23.	Electrochemistry	CHM 413	2
24.	Natural Products Chemistry II	CHM 414	2
25.	Seminar	CHM 416	2
26.	Students Industrial Work Experience Scheme (SIWES)	CHM 417	6
27.	Heterocyclic Chemistry	CHM 419	2
28.	Research Project	CHM 421	6
29.	Organic Reactions, Mechanisms and Syntheses	CHM 424	2
30.	Polymer Chemistry II	CHM 427	2
31.	Photochemistry and Pericyclic Reactions.	CHM 428	2
32.	Medicinal Chemistry of Drug Development	MCM 311	3
33.	Fundamental Medicinal Chemistry	MCM 313	3
34.	Properties of Drugs	MCM 321	2
35.	Introduction to Drug Design and Discovery	MCM 323	2

(b) Courses Taught at Bells University of Technology (BELLSTECH), Ota,

Nigeria (2009-2019)

SN	COURSE CODE	COURSE	UNIT
Post-Graduate			
1.	Industrial Biochemistry II	BIC 816	3
2.	Advanced Polymer Science	CHM 841	3
3.	Classical Methods of Analysis	CHM 812	3

4.	Spectroscopy: Theory and Application	CHM 801	3
5.	Organic Chemistry	CHM 723	3
6.	Seminar	CHM 863	2
Undergraduate			
7.	Introductory Chemistry I	CHM 101	3
8.	Practical Organic/Inorganic Chemistry	CHM 103	1
9.	Introductory Chemistry II	CHM 102	3
10.	Practical Organic and Inorganic Chemistry	CHM 104	1
11.	Chemistry for Non-Science	CHM 105	3
12.	Experimental Organic/Inorganic Chemistry	CHM 204	1
13.	Organic Chemistry I	CHM 206	3
14.	Experimental Organic Chemistry	CHM 208	1
15.	Organic Chemistry II	CHM 306	3
16.	Practical Organic Chemistry I	CHM 308	1
17.	Macromolecules	CHM 309	2
18.	Organic Spectroscopy	CHM 315	3
19.	Polymer Chemistry	CHM 318	2
20.	Organic Chemistry II	CHM 321	3
21.	Practical Organic Chemistry II	CHM 325	1
22.	Seminar	CHM 403	2
23.	Food Chemistry	CHM 404	2
24.	Research Project	CHM 450	6
25.	Students Work Experience Programme (SWEP)	CHM 497	3
Foundation: Pre-Degree/JUPEB			
25.	General Chemistry	CHM 001	-
26.	Basic Physical Chemistry	CHM 002	-
27.	Basic Organic Chemistry	CHM 004	-

(b) Courses Taught at Best Legacy, Ogbomoso, Nigeria

NCE and IJMB

1. General Chemistry
2. Physical Chemistry
3. Organic and Inorganic Chemistry

5. Post-graduate Student Supervision at UNIMED

Year	Number of Student Supervised		Number Completed/Degree
	PhD	MSc	
2021/2022	1	3	3 /MSc Students
2022/2023	2	3	3 /MSc Students
2023/2024	4	2	

(a) Undergraduate Project Supervisions at UNIMED

Year	Number of Student Supervised
2019	2
2020	1
2021	1

2022	1
2023	1
2024	2

(b) Undergraduate Project Supervisions at Bellstech

Year	Number of Student Supervised/Co-Supervised
2018	3
2017	5
2016	3
2014	1
2013	1
2012	1

D. MEMBERSHIP OF PROFESSIONAL BODIES:

- Fellow, Society of Educational Administrator of Nigeria
- Fellow, Institute of Policy Management Development
- Member, Chemical Society of Nigeria
- Member, Science Association of Nigeria

E. PUBLICATION

1. Theses

- i. Phytochemistry and Pharmacological Potentials of the Seed Essential Oils and Isolated Compounds of Some *Eucalyptus* Species in Nigeria (Ph.D.). Ladoke Akintola University of Technology, Ogbomosho, Nigeria (2015).
- ii. The Chemical Composition and Antimicrobial Activity of Leaf Essential Oil of *Zingiber officinale*. (M.Tech), Ladoke Akintola University of Technology, Ogbomosho, Nigeria. (2008).
- iii. The Chemical Composition and Antimicrobial Activity of Leaf Essential Oil of *Taxodium disticum* var. *disticum*. (B.Tech), Ladoke Akintola University of Technology, Ogbomosho, Nigeria. (2003).

2. Scientific Rating and Ranking Links

Google Scholar

<https://scholar.google.com/citations?user=06bMH1QAAAAJ&hl=en>

Research Gate

<https://www.researchgate.net/profile/Zacchaeus-Ololade>

AD Scientific Index

<https://www.adscientificindex.com/scientist.php?id=4495727>

3. Published Journal Articles

1. Oladosu, I.A., **Ololade, Z.S.**, Olawore, N.O. and Fakunle C.O. (2009). Chemical Composition and Anti-candidal Activity of Leaves Essential Oil of *Zingiber officinale* (Ginger plant); *Science Focus*, 14(3), 317-322.
2. **Ololade, Z.S.**, Olawore, N.O., Kolawole, A.S., Onipede, O.J. and Alao, F.O. (2012). Phytochemicals, Free Radical Scavenging and Anti-inflammatory Activity of the Leaf Essential Oil of *Callitris columellaris* F. Muell from Plateau State, Nigeria. *International Journal of Applied Research and Technology*, 1(7), 38-45.
3. Babayemi, J. O., **Ololade, Z.S.**, Onipede, O. J. and Dauda, K. T. (2012). Evaluation of Livestock Dung for Potash Alkali and Metal contents. *International Journal of Applied Research and Technology*, 1(8), 107-112.
4. **Ololade, Z.S.**, Olawore, N.O. and Oladosu, I.A. (2013). Phytochemistry and Therapeutic Potentials of the Seed Essential Oil of *Eucalyptus maculata* Hook from Nigeria. *Organic Chemistry Current Research*, 2, 114, 1-7.
5. **Ololade, Z.S.**, Olawore, N.O., Kolawole, A.S., Ajewole, O.O. (2013). Recovered Secondary Metabolites of Post-Hydro distilled *Callitris columellaris* Leaf and their Free Radical Scavenging Potentials. *Organic Chemistry Current Research*, 2, 115, 1-4.
6. **Ololade, Z.S.** and Olawore, N.O. (2013). Chemistry and Medicinal Potentials of the Seed Essential Oil of *Eucalyptus toreliana* F. Muell Grown in Nigeria, *Global Journal of Science Frontier Research*, 13(3), 1-10.
7. **Ololade, Z.S.**, Olatunde, O.Z., Oyelese, O.J., Olaoye, O.O. and Odewande, R.A. (2014). Total Phenolic Content, Free Radical Inhibition, Antioxidant and Antibacterial Potentials of the Medicinal Organic Compounds in the Fruit of *Terminalia catappa* Linn. *Nature and Science*, 12(2), 46-50.
8. **Ololade, Z.S.**, Olaoye, O.O., Oyelese, O.J. and Olatunde, O.Z. (2014). *Callitris columellaris* var. *campestris* Silba Leaf Extract: Phytochemicals, Phenolic Contents, Free Radical Scavenging, Antioxidant and Antimicrobial Potentials. *Nature and Science*, 12(9), 73-79.
9. **Ololade, Z.S.**, Fakankun, O.A., Alao, F.O. and Udi, O.U. (2014). Phytochemical and Therapeutic Studies of the Fruit Essential Oil of *Thuja orientalis* from Nigeria, *Global Journal of Science Frontier Research*, 14(7), 15-20.
10. **Ololade, Z.S.**, Fakankun, O.A., Alao, F.O. and Udi, O.U. (2014). *Ocimum basilicum* var. *purpureum* Floral Essential Oil: Phytochemicals, Phenolic Content, Antioxidant, Free Radical Scavenging, Antimicrobial Potentials, *Global Journal of Science Frontier Research*, 14(7), 31-38.
11. **Ololade, Z.S.**, Fakankun, O.A., Alao, F.O. and Ajewole O.O. (2016). Free Radical Scavenging, Antioxidant and Antibacterial Activities of the Fruit-Pulp Essential Oil of *Annona muricata* and Its Phytochemical Composition, *International Journal of Applied Research and Technology*, 5 (2), 47-52.
12. Kuyoro, S.E., Akinloye, O.A., **Ololade, Z.S.**, Kayode, O.T., and Badejo, O.T. (2017). Anti-diabetic Properties of Methanolic Extract of *Launaea taraxacifolia* (Wild Lecttuce), *Nigerian Journal of Biochemistry and Molecular Biology*, 32(1), 67-77.

13. Olawore, N.O. and **Ololade, Z.S.** (2017). *Eucalyptus camaldulensis* var. Nancy and *Eucalyptus camaldulensis* var. Petford Seed Essential Oils: Phytochemicals and Therapeutic Potentials, *Chemical Sciences Journal*, 7, 148, 1-6.
14. Oyebanji, J.A. and **Ololade, Z.S.** (2017). Fast Pyrolysis of *Tectona grandis* Wood for Bio-Oil: Characterization and Bactericidal Potentials, *Global Journal of Researches in Engineering: (A) Mechanical and Mechanics Engineering*, 17 (1), 31-37.
15. **Ololade, Z.S.**, Olawore, N.O., Olasoji, S.O. and Anosike, S.O. (2017). Chemical Composition and Bactericidal Activities of the Leaf Essential Oil of *Eucalyptus maculata* Hook, *Natural Product Chemistry and Research*, 5(2), 1-4.
16. **Ololade, Z.S.** and Olawore, N.O. (2017). Characterization of Essential Oil from the Seed of *Eucalyptus cloeziana* and Evaluation of its Modes of Medicinal Potentials, *Edorium Journal of Infectious Diseases*, 3, 1-8.
17. **Ololade, Z.S.**, Kuyooro, S.E., Ogunmola, O.O. and Oyelese, O.J. (2017). Physicochemical, Volatile Organic Composition, Phenolic, Flavonoid and Ascorbic Acid Contents, Antioxidant, Anti-Arthritic and Anti-Inflammatory Properties of *Cocos nucifera* Juice, *Global Journal of Medical Research (B) Pharma, Drug Discovery, Toxicology and Medicine*, 17(2), 43-49.
18. **Ololade, Z.S.**, Kuyooro, S.E., Ogunmola, O.O. and Abiona, O.O. (2017). Phytochemical, Antioxidant, Anti-arthritic, Anti-Inflammatory and Bactericidal Potentials of the Leaf Extract of *Lactuca teraxacifolia*, *Global Journal of Medical Research: (B) Pharma, Drug Discovery, Toxicology and Medicine*, 17, 19-28.
19. **Ololade, Z.S.**, Ogunmola, O.O., Kuyooro, S.E. and Abiona, O.O. (2017). *Stachytarpheta jamaicensis* Leaf Extract: Chemical Composition, Antioxidant, Anti-Arthritic, Anti-Inflammatory and Bactericidal Potentials, *Journal of Scientific and Innovative Research*, 6(4), 119-125.
20. Alao, F.O., **Ololade, Z.S.** and Nkeonye, C.V. (2018). Phytochemicals and Antibacterial Potentials of *Senna tora* Leaf and Seed Extracts on Some Clinically Isolated Bacteria, *Journal of Bacteriology and Parasitology*, 9(3), 1-4.
21. **Ololade, Z.S.** and Olawore, N.O. (2018). Phytochemical Characterization, Antioxidant, Anti-Inflammatory, Anti-Nociceptive and Antimicrobial Properties of the Seed Essential Oil of *Eucalyptus tereticornis*, *Greener Journal of Biological Sciences*, 8(1), 001-009.
22. **Ololade, Z.S.**, Essien, E.R. and Agboola, O.O. (2018). Pharmacological Potential of the Stem Extract of *Melissa officinalis*: Compositional Profile, Polyphenol, Ascorbic Acid Contents, Antioxidant, Anti-Inflammatory and Antimicrobial Activities, *Bells University Journal of Applied Sciences and Environment (BUJASE)*, 1(2), 43-52.
23. **Ololade, Z.S.** and Abiose, M.M. (2019). Analyses of the Secondary Metabolites, Radical Scavenging, Protein Denaturation and Antibacterial Activities of the Stem Extract of *Annona squamosa* *Nigerian Journal of Science*, 53(1), 39-54.

24. Larayetan, R., **Ololade, Z.S.**, Ogunmola, O. and Ladokun, A. (2019). Phytochemical Constituents, Antioxidant, Cytotoxicity, Antimicrobial, Antitrypanosomal, and Antimalarial Potentials of the Crude Extracts of *Callistemon citrinus*, *Evidence-Based Complementary and Alternative Medicine*, 19(4), 1-14.
25. Oyelese, O.J., Olawore, N.O. and **Ololade, Z.S.** (2020). Comparative Study of the Phytochemical and Bio-activities of the Essential Oils from Ripe and Unripe Seeds of *Azadirachta indica*. *The Journal of Medical Research*, 6(5), 219-224.
26. Onifade, O.F., Ayodele, P.F., **Ololade, Z.S.** and Balogun, D.O. (2020). Mitigative Effects of Coconut Oil and Its Water on the Lungs of Male Albino Rats Exposed to Petrol Vapour, *Biomedical Journal of Scientific and Technical Research*, 25(1), 18865-18873.
27. **Ololade, Z.S.**, Abam, E.O., Anuoluwa, I.A. and Abiona, O.O. (2020). Secondary Metabolites, Pharmacognostic and Therapeutic Activities of the Rhizome Extract of *Curcuma longa* Grown in South-West, Nigeria, *The Journal of Phytopharmacology*, 9(1), 30-37.
28. **Ololade, Z.S.** and Anuoluwa, I.A. (2020). Compositional Analysis, Antioxidant and Antimicrobial Potential of the Seed Extract of *Annona cinerea* Dunal Grown in Nigeria. *Global Journal of Medicine Research (C) Microbiology and Pathology*, 20(3), 17-25.
29. **Ololade Z.S.** (2021). Evaluation of Secondary Metabolites and Antibacterial Potency of the Root Extract of *Lemon balm (Lamiaceae)* Vegetable against Multidrug Resistant Bacteria, *Journal of Scientific and Innovative Research*, 10(1), 23-27.
30. **Ololade, Z.S.**, Anuoluwa, I.A. and Ishaku, P. (2021). Phytochemical, Pharmacognostic, Anti-Radical, Anti-Arthritic and Antibacterial Potential of the Leaf Extract of *Dialium guineense*. *Research Journal of Applied Sciences*, 16(5), 192-203.
31. Alao, F.O., **Ololade, Z.S.** and Fagge, Y.A. (2021).Evaluation of the Antibacterial Potential of the Phytochemicals in Leaf Extracts of *Newboudia laevis* on Uropathogens, *Journal of Bacteriology and Parasitology*, S10(003), 1-3.
32. **Ololade Z.S.**, Anuoluwa I.A., Adejuyitan J.A.and Uyaboerigha D.I. (2021). Black Velvet Tamarind: Phytochemical Analysis, Antiradical and Antimicrobial Properties of the Seed Extract for Human Therapeutic and Health Benefits. *The Journal of Phytopharmacology*, 10(4), 249-255.
33. **Ololade, Z.S.**, Anuoluwa, I.A., Adeyemi A.F. and Uyaboerigha D.I. (2021). Synergistic Efficacy of Phytochemical, Antioxidant and Bactericidal Properties of the Aerial Essential Oil of *Laggeta crispate*, *Pharmacognosy Journal*, 13(5): 1304-1311.
34. **Ololade, Z.S.** and Olawore, N.O. (2021). Health Benefits of the Fruit Essential Oil of *Eucalyptus citriodora*: Secondary Metabolites, Radical Scavenging, Antioxidant, Antiinflammatory, Analgesic, Antimicrobial Potential, *International Journal of Drug Development and Research*, 13(4), 1-7.
35. Adesina, A.R., Ogunmoyela, O.A.B., Arisa, N.U. and **Ololade, Z.S.** (2022). Optimization of the production of local cheese from cow milk processed with the seed

of *Moringa oleifera*, *Journal of Food Processing and Preservation*, 46(1), e16189.
<https://doi.org/10.1111/jfpp.16189>

36. **Ololade, Z.S.** and Anuluwa, I.A. (2022). Phytobiotic Potential of Flower Essential Oil of *Melissa officinalis* on Multi-Drug Resistance Bacteria common to Human and Animal, *The Journal of Medical Research*, 8(1), 19-22.
37. Alao, F.O., **Ololade, Z.S.** and Garba, J.O. (2022). Solvent Polarity and Temperature Effects on Extracted Secondary Metabolite from the Fruit of *Tetrapleura tetraptera* and its Antibacterial Potential on Uropathogens, *Global Journal of Medical Research Microbiology and Pathology*, 22(1), 23-31.
38. Gbenga-Fabusiwa, F.J., Jeff-Agboola, Y.A., **Ololade, Z.S.**, Akinrinmade, R. and Agbaje, D.O. (2022). Waste-to-wealth; nutritional potential of five selected fruit peels and their health benefits: A review, *African Journal of Food Science*, 16(7), 172-183.
39. Adesina, A.R., Kajihusa, O.E., Sobukola, O.P., **Ololade, Z.S.** (2022). Some Quality Attributes of Gluten Free Fried Products from Defatted Peanut Flour and Starches of Common Tropical Roots, *International Journal of Agricultural Science and Food Technology*, 8(4), 265-272.
40. **Ololade, Z.S.**, Lajide, L., Onifade, O.F., Eze, J.C., Tommy B.E., Orodepo, G.O., Idowu, O.O., Oyebanji, O.T. and Olaniran, A.C. (2023), Exploration of Secondary Metabolites in Flower-Petal *Annona muricata* as Agonists for Peroxisome Proliferator-Activated Receptor-Alpha (PPAR α) for Liver Function, *The Journal of Phytopharmacology*, 12(6):411-420. doi: 10.31254/phyto.2023.12607

5. Manuscript under Review for Publication

- **Ololade, Zacchaeus S.**; Ojo, Oluwafemi A.; Onifade, Olayinka F.; Akinnawo, Christianah A.; Orodepo, Gabriel O., Tommy Bessie E.; Oyebanji, Olawumi T.; and Azeez-Olaleye, Lydia D. (2023). Chemoinformatic Study on Phytochemicals from *Melissa officinalis* for Ligand Based Drug Design Inhibition of Aflatoxins Synthesis, *Toxins Reviews (Taylor and Francis)*.
- **Ololade, Zacchaeus S.**, Onifade, Olayinka F., Akinnawo, Christianah A., Tommy, Bessie E., Balogun, Seyi P., Gbenga-Fabusiwa Funmilayo J., Anuluwa, Iyaduni I., Salecity, Aanuoluwa J., Oyebanji, Olawumi T., and Olaniran, Anikeola C. (2023). Inhibitory Potential of Phytochemicals in *Justicia secunda* on Alpha-Amylase and Alpha-Glucosidase Important Diabetes Mellitus-Associated Proteins, *RSC Pharmaceutic*.
- **Ololade, Zacchaeus S.**, Ojo, Oluwafemi A., Akinnawo, Christianah A., Orodepo, Gabriel O., Onifade, Olayinka F., Kazeem, Adewale S. and Oyebanji, Olawumi T. (2023). Evaluation of Aflatoxins in Seeds using Immunochromatography, *In Silico* Study and Treatment using Combined Extract of *Melissa officinalis* and *Senna obtusifolia*, *International Journal of Environmental Safety, (Taylor and Francis)*.
- **Ololade, Zacchaeus S.**; Lajide, L.; Adekunbi, Jumoke R.; Onifade, Olayinka F.; Gbenga-Fabusiwa Agbaje F.J.; Olaniran, Anikeola C.; Oyebanji, Olawumi T. and Tommy Bessie E. (2023). Medicinal Impact of *Solanecio biafrae* Phytochemicals as Potential Agonist of

Peroxisome Proliferator-Activated Receptor-alpha and Health Implications for Diseases Treatments, *Journal of Herbs, Spices and Medicinal Plants (Taylor and Francis)*.

- **Ololade, Zacchaeus S.**, Onifade, Olayinka F., Eze, John C., Oyebanji, Olawumi T., Olaniran, Anikeola C., Anuluwa, Iyaduni A., Idowu, Olaniyi O. and Tommy Bessie E. (2023). Integrative Phytochemical, Ligand Structure Based Drug Design Hepato-Nephroprotective Potential of *Annona muricata* Flower-Petals, *Natural Products Research (Taylor and Francis)*.
- **Ololade, Zacchaeus S.**; Ojo, Oluwafemi A.; Onifade, Olayinka F.; Akinnawo, Christianah A.; Oyebanji, Olawumi T.; Tommy Bessie E. and Azeez-Olaleye Lydia D. (2023), Molecular Drug Design using Phytochemicals in *Senna obtusifolia* as Drug Candidate for Treatment of Aflatoxin Synthesis, *Pharmacognosy Journal (Scopus)*.
- **Ololade, Zacchaeus S.**, Oyebanji, Olawumi T., Onifade, Olayinka F., Olaniran, Anikeola C., Idowu, Olaniyi O., Quadri-Oloye Mariam T. and Tommy Bessie E. (2023). Inhibitory Potential of *Struchium sparganophora* Phytochemicals on Cyclooxygenases and their Health Implications on Inflammations and Pains, *Drug and Chemical Toxicology (Taylor and Francis)*.

6. Conference Attended and Paper Presented

- i. **Ololade, Z.S.**; Olawore, N.O. and Oladosu, I.A. (2009). Chemical Composition and Anti-candidal Activity of Leaves Essential Oil of *Zingiber officinale* Grown in South-West, Nigeria, 102. Annual Conference of the Science Association of Nigeria (SAN) (2009) at Conference Centre, University of Ibadan, Ibadan.
- ii. Babayemi, J. O., **Ololade, Z. S.**, Onipede, O. J. and Dauda, K. T. (2010). Evaluation of Livestock Dung for Potash Alkali and Metal contents. Annual International Conference, Workshop and Exhibition of the Chemical Society of Nigeria (CSN) at Abeokuta, Ogun State, Nigeria.
- iii. Kuyoro, S.E., Akinloye, O.A., **Ololade, Z.S.**, Kayode, O.T., and Badejo, O.T. (2016). Anti-hyperglycemic and Cholesterol Lowering Effects of Methanolic Extract of *Launaea taraxacifolia*. (35th Conference of NSBMB at Covenant University, Ota).
- iv. Olawore, N.O., Aliyu, A.A., Adegbite, O., Agaje, L. and **Ololade, Z.S.** (2017). Chemical Constituents and Biological Activities of the Leaf and Stem Essential Oils of *Plectranthusae gyptiacus* (Forks) Grown in Nigeria, The Future Scientist Symposium at Ladoke Akintola University of Technology, Ogbomoso, Nigeria. Sponsored by American Chemical Society (ACS).
- v. **Ololade, Z.S.** and Udobang, E.U. (2018). Phytochemical and Antibacterial Potentials of Flower-Bud Extract of *Annona muricata* against some Clinically Isolated Multidrug-Resistant Bacteria. Annual Conference of the Science Association of Nigeria (SAN) (2018) at Public Service Staff Development Centre, Magodo, Lagos.

- vi. **Ololade, Z.S.**, Anuoluwa, I.A. and Ekundayo, E.A. (2019). Secondary Metabolites and Therapeutic Potential of Essential Oil Extracted from *Blumea pterodonta* (DC.).International Conference for Technological Advancement at Bells University of Technology, Ota, Nigeria.
- vii. **Ololade, Zacchaeus S.**, Anuoluwa, Iyadunni A. and Gbenga-Fabusiwa, Funmilayo J. and Uyaboerigba Daubotei I. (2021). Secondary Metabolites and Antibacterial Potential of the Leaf Extract of *Solanecio biafrae* against Multi-Drug Resistant Pathogenic Bacteria. 54th Annual (hybrid) Conference of the Science Association of Nigeria, "Oluyole 2021" at Faculty Science, University of Ibadan, Ibadan, Nigeria.
- viii. Anuoluwa, Iyadunni A., Ogunjobi, Adeniyi A., **Ololade, Zacchaeus S.** and Ekanem, Ubong E. (2021). Antibiotics susceptibility and hydrocarbon degradative ability of bacteria isolated from hydrocarbon contaminated soil, 54th Annual (hybrid) Conference of the Science Association of Nigeria, "Oluyole 2021" at Faculty Science, University of Ibadan, Ibadan, Nigeria.
- ix. Idowu, O.O., Lajide, L., **Ololade, Z.S.**, and Ayodeji, D.E. 2023. Computational Insight into Antimalal Properties of some Phytochemicals from *Callophyllum inophyllum* leaves and their lingard derivatives, UNIMED faculty of Science Conference 2023.
- x. TETFUND Workshop on Capacity Building on Effective Supervision of Postgraduate Research held at Exclusive Serene Hotel and Suites, Plot 1, Reuben Okoya Crescent, off Olusegun Obasanjo way, before Mountain of Fire, Wuye, Abuja, FCT. 11th -15th, 2023.

7. Manuscript in Preparation for Publication

- i. **Ololade, Z.S.**, Onifade, O.F., Olaniran A.C., and Oyebanji O.T. (2023). Phytochemical, Molecular Dynamics, Nephroprotective and Hepatoprotective Effect of *Solanum* vegetable specie on abino Rats.
- ii. **Ololade, Z.S.**, Onifade O.F. and Balogun S. (2023). *Insilico* and *In Vivo* Antidiabetic, Inhibitory Molecular Interactions and Pharmacokinetic Potential of the Leaf Secondary Metabolites of *Justicia secunda*.
- iii. **Ololade, Z.S.**, Onifade, O.F., Oyebanji O.T., Olaniran A.C. (2023). Secondary Metabolites, *In silico* and *In vivo* hepatoprotective studies of extract of *Struchium* vegetable specie on abino Rats.
- iv. **Ololade, Z.S.**, Quadri-Oloye, M.T, Orodepo, G.O. and Osungbemiro, B.W. (2023). Chromatographic and Phytotherapeutic Studies of the Secondary Metabolites in the Leaf Extract of *Annona squamosa* for Health Benefits.
- v. Anuoluwa, I.A., and **Ololade, Z.S.** (2023). Chromatographic Compositional Analysis and Pharmacognosy of the Secondary Metabolites of the Various Part of *Zingiber aromaticum*.

8. Research in Progress:

- Pyrolysis and Characterization of Bio-Oils from Biomasses for their Industrial and Pharmacological Applications.
- Isolation and structural elucidation of Phenolic Compounds from plants using for medicinal Purposes in South-West, Nigeria.
- Molecular docking and Modification of the structures of the natural product compounds to enhance their medicinal activities.

F. Appreciation from the UNIMED Management: Appreciated for the role played in promptly reporting the security situation ENDSARS protest to the Management 2020.

G. Professional Accomplishment

I have been teaching courses and conducting researches in the field of Medicinal Organic Chemistry/Pharmacognosy for more than two (2) decades. Currently, I have forty (40) papers published in various peer reviewed scientific journals (international and national) and eight (8) papers presented at conferences. There are other manuscripts submitted for publication in widely read reputable scientific journals in my area of research. Records of my research publications have been read, cited and requested by many scientists globally. In recognition of my academic and research ability, I have been given a number of administrative and academic responsibilities in Universities. I have supervised and co-supervised many undergraduate and post-graduate students. I am reviewer editor, a member of the Editorial Board and a regular reviewer for the journal of Frontiers in Chemistry/Medicinal and Pharmaceutical Chemistry, and served as a reviewer to some scholarly Journals. I am a fellow and member of professional bodies. I have attended various conferences, workshops and training. Presently, I am the acting Head, Department of Chemistry, University of Medical Sciences, Ondo, Nigeria.

H. Conferences, Seminars and Workshops Attended

	Date
• Annual Conference of the Science Association of Nigeria (SAN) at Conference Centre, University of Ibadan, Ibadan.	2009
• Annual International Conference, Workshop and Exhibition of the Chemical Society of Nigeria (CSN) in Abeokuta, Ogun State, Nigeria.	2010
• Innovative Leadership for Sustainable Results in the 21th Century University, Bells University, Ota, Nigeria.	2018
• Workshop on the Uses of University Library for Research	2019
• Workshop on University Website Re-Engineering	2019
• International Conference for Technological Advancement at Bells University of Technology, Ota, Nigeria.	2019
• 54th Annual (hybrid) Conference of the Science Association of Nigeria, "Oluyole 2021" at Faculty Science, University of Ibadan, Ibadan, Nigeria.	2021
• Workshop for Academic Staff - Evaluation and Certificate, UNIMED	2021
• Grantsmanship Workshop by CORD, Unimed Series 1 and 2	2021
• Herbal Medicine; Past Present and the Future	2022

I. Current Research Activities

- Isolation of novel natural products and drug discovery (with emphasis on phytochemicals, antioxidant, anti-arthritic, anti-inflammatory, hepatoprotective, nephroprotective, antinociceptive, antimicrobial, antidiabetic and anticancer properties) from medicinal plants as well as their structural elucidation using various modern and advanced spectroscopic techniques such as multi-dimensional GC-MS, GC-FTD, GC-FID, NMR, FT-IR, MS, UV etc.
- Pyrolysis and Characterization of Bio-Oils from Biomasses for their Industrial and Pharmacological Applications.
- Molecular docking, Gene expression and Modification of the structures of the natural product compounds to enhance their medicinal activities.

J. (a) Current Relevant Information

1. Services within the Department:

- Acting Head, Department of Chemistry, University of Medical Sciences, Ondo, Nigeria. 2020
- Chairman, Department of Chemistry Board 2020
- Chairman, Departmental Committee for Introduction of New Programmes 2020
- Chairman, Departmental Research Committee 2019
- Chairman, Examination Committee 2019-2020
- Level Advisor for 400 Level (Undergraduate) 2019-2020
- Department Representative, University Website Re-Engineering Committee 2019-2020
- Chairman, Department Seminar Committee 2019-2020

2. Services within the Faculty:

- Member, Faculty of Science Board 2019-till date
- Acting Head, Department of Chemistry, University of Medical Sciences, Ondo, Nigeria. 2020-till date
- Member, Committee on Add and Drop Form 2021
- Member, Post-Graduate Committee 2021

3. Services within the University:

- Acting Head, Department of Chemistry, University of Medical Sciences, Ondo, Nigeria. 2020-2023
- Member, Committee for Introduction of New Programmes 2020
- Member, University Conference Attendance Committee 2019
- Member, University Website Re-Engineering Committee 2019
- Secretary, Ad-Hoc Committee to look into the Students' Mode Dressing in the University of Medical Sciences, Ondo, Nigeria. March 2020
- Member, Board of Post-Graduate School, UNIMED, Ondo, Nigeria 2021
- Coordinator, UNIMED Open Distance Learning 2023-till date
- Member, Committee on Herbal Medicine Certification Courses for members of the association of Herbal Medicine of Nigeria 2023

4. Services outside UNIMED:

- Area Pastor, RCCG Open Heavens Area, Ogun 14, Ota, Ogun State, Nigeria.
- Pastor, RCCG, Freedom Assembly, Segede Prison, Ondo, Nigeria
- Counselling
- Farming.

K. Administrative and Managerial Experiences (UNIMED, Ondo)

- Acting Head, Department of Chemistry, University of Medical Sciences, Ondo, Nigeria. 2020-2023
- Member, Board of Post-Graduate School, UNIMED, Ondo, Nigeria 2021-2023

L. Administrative and Managerial Experiences (Bells University, Ota)

- Level Advisor for Undergraduate 2009-2014
- Member, Departmental Seminal Committee 2009- 2018
- Coordinator, Departmental Pre-Degree Committee 2009-2015
- Examination Officer 2012-2014
- Member, College Courses and Seminar Committee 2015-2019
- Member, University Sport Committee 2016-2019
- Member, Departmental Postgraduate Committee 2016-2019
- Member, Departmental Admission Committee 2016-2019
- Assistant Hall Warden 2016-2019.
- Member, Mock Accreditation Team to visit Department of Business Administration and Management Technology, Bells University of Technology, Ota, Nigeria. February 2018 and April, 2018
- Chairman, Ad-Hoc Committee to look into the complaint of vendors in Bells University of Technology, Ota, Nigeria. May/June, 2018
- Member, Mock Accreditation Team to visit Department of Mechanical, Mechatronic and Biomedical Engineering, Bells University of Technology, Ota, Nigeria. September 2018
- Chairman, Departmental Time Table Committee 2018-2019
- Member, College Time Table Committee 2018-2019

M. Contributions to Knowledge

My research activities focus on phytochemistry, pharmacognosy, aromatherapy, phytomedicine, nutraceutical, food chemistry as well as novel drugs from medicinal plants. My research interest is primarily identifying natural products present in plant extracts and medicinal foods to evaluate these compounds for preventive and/or therapeutic effects against human diseases. In the last few decades, I have worked more on the isolation of novel natural products, and drug discovery from medicinal plants with emphasis on antioxidant, anti-arthritic, anti-inflammatory, hepatoprotective, anti-diabetic, nephroprotective, nephropathy anti-nociceptive, antimicrobial properties; molecular docking and modification of the structures of the natural product compounds to enhance their medicinal activities. In the course of my research, I have demonstrated a keen interest in the characterization, and structural elucidation of natural product compounds using various modern and advanced spectroscopic

techniques such as multi-dimensional GC-MS, GC-FTD, GC-FID, LCMS, NMR, FT-IR, MS, UV etc.

My research work has provided justifications and guidelines for industrial processing of some odoriferous medicinal plants into consumable and marketable products. This has helped the products compare favourably with orthodox medicines and will continue to make traditional medicine more relevant to local communities in a developing nation in Africa.

I have been teaching courses in the field of Medicinal Organic Chemistry and other areas of Chemistry. For more than two (2) decades, I have been conducting research in the areas of Organic Medicinal Chemistry/Pharmacognosy. Currently, I have forty (40) papers published in various peer-reviewed scientific journals (international and national) and eight (8) papers presented at conferences. There are other manuscripts submitted for publication in widely read reputable scientific journals in my area of research. Records of my research publications have been read, cited and requested by many scientists globally. In recognition of my academic and research ability, I have been given many administrative and academic responsibilities in Universities. I have supervised and co-supervised many undergraduate and postgraduate students. I am a Reviewer Editor, a member of the Editorial Board and a regular reviewer for the journal of Frontiers in Chemistry/Medicinal and Pharmaceutical Chemistry, I have also served as a reviewer for some scholarly Journals. I am a fellow and member of professional bodies. Presently, I am the acting Head, Department of Chemistry, University of Medical Sciences, Ondo, Nigeria.