



CURRICULUM VITAE FOR ABIOLA MOJISOLA ASOWATA-AYODELE

A PERSONAL DATA

1. **Full Name (Surname first):** ASOWATA-AYODELE Abiola Mojisola
(nee AYODELE)
2. **Date of Birth:** 26th October, 1983
3. **Details of Contact Address:**
 - a) E-mail addresses: mojiayodele83@yahoo.com
mojisolaasowata@gmail.com
mayodeleasowata@unimed.edu.ng
 - b) Mobile Phone numbers: +234-8110832776 (Call only)
+234-8136489345(What app only)
4. **Nationality:** Nigerian
5. **State of Origin:** Ondo State
6. **Senatorial District:** Ose / Owo Senatorial District
7. **Local Government Area:** Ose Local Government
8. **Permanent Home Address:** 11B, Aule GRA, FUTA Road, Akure, Ondo State.
9. **Marital Status:** Married
10. **No. of Children & their Ages:** Three /12+ years, 8+ years & 3+ years
11. **Name of next of Kin:** Dr. Timothy Iyobosa Asowata
12. **Details of Contact Address of Next of Kin:**
 - a) Email address: timoti4x@yahoo.com
 - b) Mobile Phone number: +234-8065348350
13. **Date of Assumption of Duty:** 4th of June, 2019
14. **Rank/ status on First Appointment:** Lecturer 1/ Full Time
15. **Present Status:** Senior Lecturer
16. **Date of Last Promotion:** 1st October, 2022
17. **Present Salary, Grade level & Step:** CONUASS 5 Step 3
18. **Date of Confirmation:** 4th June, 2022
19. **Faculty/ Directorate:** Faculty of Science
20. **Department/ Unit/Area:** Biosciences & Biotechnology
/Plant Biology & Biotechnology/
Eco-phytotherapy
21. **ORCID & Google Scholar ID:** <https://orcid.org/0000-0002-9531-1105>
<https://scholar.google.com/citations?user=l7QOpnkAAAAJ&hl=en>

B. Educational Background:

i. Higher Educational institutions attended with Dates:

- University of Fort Hare, Alice, South Africa 2014- 2016
- University of Ibadan, Ibadan, Nigeria 2007-2009
- Obafemi Awolowo University, Ile-Ife, Nigeria 2001 – 2005
- St. Raphael's Kiddies School, Ondo, Nigeria 1989-1994

ii. Academic and Professional Qualification:

- Doctor of philosophy in Botany (Ph.D. Botany) 2016
- Master of Science in Botany (M.Sc. Botany) 2009
- Bachelor of Education in Biology (B.Sc.Ed. Biology) 2005
- Senior Secondary School Certificate Examination (NECO) 2000
- First School leaving Certificate 1994

C. Work Experience with dates:

1. Previous work experience outside the University System

- i. NYSC Secondary School, Calabar (Biology Teacher) 2006-2007

2. Previous work experience in other University

- i. **Elizade University, Ilara Mokin, Ondo State.** Teaching;
(Lecturer I; Department of Biological Sciences; Plant Biotechnology Unit;
2017/2018 Second Semester Session - 2018/2019 First Semester Session.)

Courses taught in Second Semester 2017 /2018 Session:

Course Code	Course title	Units	Unit taught
BIO 202	Ecology 1	2	1
BIO 204	Biological techniques	2	1
BIO 311	Ecosystem	2	1
BIO 411	Systematic Biology	3	1
BTH 412	Animal cell culture	3	1.5
BTH 416	Bio-resources management	2	1
BTH 408	Biosafety & Bioethics	2	1

Courses taught in First Semester 2018 /2019 Session:

Course Code	Course title	Units	Unit taught
BIO 209	Seedless plants	2	1
BTH 305	Plant Biotechnology	2	1
BTH 307	Plant tissue culture	2	1
EMT 314	Landscape design	2	1

- ii. Wesley University, Ondo, Ondo State; Teaching;
(Assistant Lecturer, Lecturer II and I; Department of Biological Sciences, Plant Biotechnology Unit, College of Natural and Applied Sciences).

Full Academic Session 2011 / 2012– First Semester 2017/ 2018 Session:

Course Code	Course title	Units	Unit taught
BIO 206	Introduction to Ethnobiology	2	1.5

BIO 211	Cell Biology	3	1.5
BIO 204	Principles of Biological Techniques	2	1
BIO 317	Plant Anatomy	3	1.5
BIO 363	Animal and Plant Ecology	2	1
BIO 364	Biostatistics and Biometry	3	1.5
BIO 482	Conservation Biology, Human and Population Genetics	3	(1.5)

3. Work experience within University of Medical Sciences, Ondo:

Teaching; Courses taught within the University since appointment in 2019
(Senior Lecturer; Department of Biosciences and Biotechnology; Plant Biotechnology Unit
; Centre for Herbal Medicine and Drug Discovery).

i. Courses taught in second Semester 2023/2024 session

Course Code	Course title	Units	Unit taught
BIO 121	General Principles of Biology II	4	0.5
BIO 222			
/STB 222	Introductory Ecology	2	1
PBT 322	Medicinal Plants	2	1
PBT 324	Plant Ecology	2	1
PBT 323	Conservation and Biodiversity	2	1
PBT 423	Plant tissue culture	2	1

ii. Courses taught in first Semester 2023/2024 session

Undergraduate courses

Course Code	Course title	Units	Unit taught
PBT 413	Plant host pathogens	3	1.5
PBT 417	Plant gene transfer	2	1
PBT 312	Plant Taxonomy	3	1.5
PBT 313	Plant Physiology	2	1
PBT 211/STB 215	Seedless plants		

Conversion programme

STB 325	Plant Ecology	2	1
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Post graduate courses

AEB 831	Ecology of Tropical Terrestrial Ecosystem
PBT 816	Evolution and Diversity of major Plant Groups

iii. Courses taught in 2nd Semester 2022/2023 session

Course Code	Course title	Units	Unit taught
BIO 121	General principles of Biology II	4	0.5
BIO 222/STB 222	Introductory Ecology	2	1
PBT 322	Medicinal plants	2	1
PBT 324/STB 325	Plant Ecology	2	1
PBT 424	Industrial Biotechnology	2	1
PBT 423	Plant tissue culture	2	1

iv. Courses taught in first Semester 2022/2023 session

Course Code	Course title	Units	Unit taught
PBT 211 / STB 215	Seedless plant	2	1
PBT 316	Advanced Biotechnology	3	1.5
PBT 413	Plant host pathogens	3	1.5
PBT 417	Plant gene transfer	2	1
PBT 419	Economic Botany	2	1

v. Courses taught in 2nd Semester 2021/2022 session

Course Code	Course title	Units	Unit taught
BIO 121	General principles of Biology 2		0.5
PBT 221	Seeds plant	3	1.5
BIO 222	Introductory ecology	2	1
PBT 322	Medicinal plants	2	1
PBT 324	Plant Ecology	2	1
PBT 326	Metabolic plant physiology 2		1

vi. Courses taught in first Semester 2021/2022 session

Course Code	Course title	Units	Unit taught
PBT 314	Plant Breeding	2	1
PBT 313	Plant Physiology	2	1
PBT 212	Introductory to Biotechnology2		1
STB 214	Introductory to Botany	2	1
PBT 413	Plant Reproduction	2	1

vii. Courses taught in Second Semester 2020/2021 session

Course Code	Course title	Units	Unit taught
BIO 121	General principles of Biology 4		0.5
BIO 222	Introductory Ecology	2	1
PBT 211	Seedless plants	2	1
PBT 411	Economic botany	2	1
PBT 322	Medicinal plants	2	1
PBT 325	Plant Ecology	2	1

viii. Courses taught in First Semester 2020/2021 Session

Course Code	Course title	Units	Unit taught
BIO 111	General principles of Biology I	4	0.5
PBT 314	Plant Breeding	2	1
PBT 313	Plant Physiology 1	2	1
PBT 411	Economic Botany	2	1

ix. Courses taught in First Semester 2019/2020 Session

	Course Code	Course title	Units	Unit taught
	BIO 111	General principles of Biology I	4	0.5
	BIO 212	Biological techniques	2	1
	PBT 211	Seedless plants	2	1
	PBT 212	Introduction to Biotechnology	2	1
	PBT 311	Molecular Genetics	2	1
	PBT 314	Plant Breeding	2	1
x.	Courses taught in Second Semester 2019/2020 Session:			
	Course Code	Course title	Units	Unit taught
	BIO 121	General Principles of Biology II.	4	0.5
	BIO 222	Introductory Ecology	2	1
	BIO 314	General Ecology	2	1
	PBT 221	Biology of Seed Plants.	2	1
	PBT 322	Medicinal Plants	2	1
	PBT 325	Plant Ecology	2	1
xi.	Courses taught in Second Semester 2018 /2019 Session:			
	Course Code	Course title	Units	Unit taught
	BIO 121	General principles of Biology 2	4	0.5
	BIO 222	Introductory Ecology	2	1
	PBT 221	Seed plants	2	1
4.	Courses taught within the current Academic Session (2 nd Semester 2024/2025 session)			
	Course Code	Course title	Units	Unit taught
	Undergraduate			
	BIO 121	General Principles of Biology II	4	0.5
	PBT 221			
	/STB 222	Biology of Seed Plants.	2	1
	BIO 222	Introductory Ecology	2	1
	PBT323	Conservation and Biodiversity	3	1.5
	PBT 324	Plant Ecology	3	1.5
	PBT 322	Medicinal Plants	3	1.5
	Postgraduate			
	MCH 823	Advanced Biosynthesis and taxonomy of Medicinal Plants		1
	PHM 823	Herbal Material Medica	3	1.5
	PHM 825	Ethnobotany, Nutrition and Health	3	1.5
	DHM 722	Herbal Material Medica	2	1
	DHM 725	Taxonomy of Flowering plants	2	1
	PTG 826	Evolutionary Mechanism	3	1.5
	Courses taught in first Semester 2024/2025 session			
	Course Code	Course title	Units	Unit taught
	BIO 111	General principles of Biology I	4	0.5

BIO 313			
/STB 314	General Ecology	3	0.5
PBT 312	Plant taxonomy	3	1.5
PBT 313	Plant Physiology	2	1
PBT 316	Advanced Biotechnology	2	
PBT 417	Plant gene transfer	2	1
STB 325	Plant Ecology	2	1
Postgraduate			
AEB 831	Ecology of Tropical Terrestrial Ecosystem	3	1.5
DHM 701	Understanding Herbal Therapeutic actions	3	1.5
PHM 816	Advanced Herbarium Studies Groups	3	1.5
PHM 814	Introductory Pharmacology	3	1.5

5. Graduate Student Supervision within Current Session- 5

D. Academic Membership

Member, Botanical Society of Nigeria (BOSON)

Member, Society for Medicinal plants and Economic Development (SOMPED)

Member, Functional Food Association (FFA)

E. ACADEMIC PUBLICATIONS:

1. Thesis / Dissertation:

- i. **Asowata-Ayodele A.M.**, (2016) [Pharmacological studies of *Foeniculum vulgare* \(Mill.\) and *Lippia javanica* \(Burm. F.\) Spreng. used as spices in Nkonkobe Municipality of the Eastern Cape province, South Africa.](#) **AM Asowata-Ayodele Ph.D thesis** in University of Fort Hare, South Africa. (Supervisor: **Prof. Anthony Jide Afolayan**)
- ii. **Ayodele A.M.**, (2009) Ethnomedicinal study of debarked medicinal trees in University of Ibadan, submitted to the Department of Botany, Faculty of Science, University of Ibadan, Ibadan, Oyo State, Nigeria (**M.Sc. thesis**). Supervisor: **Prof. Taiye R. Fasola.**
- iii. **Ayodele A.M.**, (2005) Causes of students' riot among Universities students; Obafemi Awolowo University (OAU) as a case study. (**B.Sc Project Report**). Supervisor: **Dr. Mrs. Oyinloye**

2. Books and Monograph:

3. Contribution to Books:

- 1) **Asowata-Ayodele A.M.**, Adewale O.O., Akomolafe S.F. and Adetunji J.B., (2023) Advancement in the research of sulfated polysaccharides from algal origin and its antiulcer bioactivities accepted for publication in *Next –Generation Algae Vol. 2. Scrivener Publishing, Chapter 8, 28 pages*
- 2) Adewale O.O., **Asowata-Ayodele A.M.**, Akomolafe S.F. and Adetunji J.B., (2023) Natural compounds of algae origin with potential anticarcinogenic benefits accepted for publication in *Next –Generation Algae Vol. 2. Scrivener Publishing, Chapter 7, 30 pages.*

- 3) **Asowata-Ayodele A.M.**, Oyetunji O.E. and Olatunji B.P. (2023). The role of *Drosophila melanogaster* (Fruit fly) in managing neurodegenerative diseases in functional food and nutraceuticals research. Book chapter > *Phytochemicals in Agriculture*, > DOI: 10.5772/intechopen.110526. (35 chapters).
- 4) **Asowata-Ayodele A.M.**, Ezekiel Olamoye Oyetunji, Temitayo Esther, Adeyeoluwa, Taiwo Godspower Olawoyin, Babawale Peter Olatunji and Timothy Bamgbose. (2024). Algae and cyanobacteria as food supplements. In a textbook entitled Microbial Products for Health and Nutrition, DOI: 10.1007/978-981-97-4235-6, Springer nature publishing.

4. Published Journals Articles:

- 5) **Asowata-Ayodele A.M.**, Otunola G.A. & Afolayan A.J. (2016) Ethnobotanical survey of culinary herbs and spices used in the traditional medicinal system of Nkonkobe Municipality, Eastern Cape, South Africa. *South African Journal of Botany*. 104: 69-75.
- 6) **Asowata-Ayodele A.M.**, Otunola G.A. & Afolayan A.J. (2016) Foliar micromorphology of *Lippia javanica*. *African Journal of Traditional Complementary and Alternative Medicine*. 13(2): 237-242.
- 7) **Asowata-Ayodele A.M.**, Otunola G.A. & Afolayan A.J. (2016) Assessment of the polyphenolic content, free radical scavenging and anti-inflammatory activities of *Lippia javanica*. *Pharmacognosy Magazine* 12(46): 353- s362.
- 8) Dabesor A.P., **Asowata-Ayodele A.M.** & Umoiette P. (2017) Phytochemical compositions and antimicrobial activities of *Ananas comosus* peels (M.) and *Cocos nucifera* Kernel (L.) on selected food borne pathogens. *American Journal of Plant Biology*. 2(2): 73-76.
- 9) **Asowata-Ayodele A.M.**, Dabesor A.P. & Afolabi B. (2019) Phytochemical compositions and antimicrobial activities of *Citrus sinensis* and *Citrus aurantifolia* peels on selected pathogenic bacteria isolated from Jollof Rice. *International Journal of Pathogen Research*. 2(3):1-7
- 10) **Asowata-Ayodele A.M.**, Otunola G.A. & Afolayan A.J. (2019) Micro morphology of *Foeniculum vulgare* (Apiaceae). *Advances in Plant and Agriculture Research*. 9(1):147–151.
- 11) **Asowata-Ayodele A.M.**, Otunola G.A. & Afolayan A.J. (2021) The Nutrient, Mineral and Anti-Nutrient Studies of two indigenous South African Spices. *Journal of Advances in Biology & Biotechnology* 9(1):147–151.

- 12). Momoh A. & **Asowata-Ayodele A.M. (2022)** Molecular analysis of the resistant factor of virulent uropathogenic *Escherichia coli* in volunteered females of Elizade University. *Microbes and Infectious Diseases*. doi:10.21608/mid.2022.116201.1235.
- 13). Akomolafe S.R. & **Asowata-Ayodele A.M. (2022)**. Roasted cashew (*Anacardium occidentale* L.) nut-enhanced diet forestalls cisplatin-initiated brain harm in rats. **Heliyon** 8 (2022) e11066 <https://doi.org/10.1016/j.heliyon.2022.e11066>
- 14). Olatunji B.P., Arowosegbe S., Adeleke C.O., Obawumi D. **Asowata-Ayodele A.M.** Nicotine Content and Dietary Composition of Some Cultivated Species of Solanaceae Family **(2022)**. *Annals of Science and Technology (AST)*. Volume 7 Issue 2.
- 15). Falade MJ and **Asowata-Ayodele A.M. (2022)**. Multi-seasonal evaluation of selected aqueous plant extracts for antimicrobial activities against rice blast disease. *International Journal of Plant Pathology and Microbiology*. 2022; 2(2):38-45.
- 16). Momoh Abdul Onoruoiza, **Asowata-Ayodele A. M.** Olayemi Ogonnoh, David-Momoh Theresa (2024). The comparative antimicrobial effects of castor, garlic, beniseed and bitter cola extracts on microorganisms isolated from hospitals' wards. *Microbes and Infectious Diseases*. DOI: 10.21608/MID.2023.200261.1485. 5(3): 1198-1216.
- 17). **Asowata-Ayodele A. M.**, Abdul Onoruiza Momoh, Folusho Olomiyete, Olatunji Babawale Peters, Olaide Felix Afolabi, , Oghale Godwin, (2024) Pharmacological investigation of *Anchomanes difformis* for its antianaemic activities published in *Journal of Research in Complementary Medicine* 2024; 1(3): 103-117. 10.5455/JRCM.20240603100510.
- 18). Damilola O.Ariyo, Ezekiel D. Olowolaju, **Asowata-Ayodele A.M.**, Stephen O. Oyeyipo, Akinjide M. Afolabi & Kehinde M. Atitola. (2025) Processing of health-promoting compounds in berries and fruits for therapeutic use. *Journal of Veterinary and Applied Sciences*. ISSN: 2315-6856; e-ISSN: 2636-5553; Volume 15, issue 1: 000 – 000 (2025) published by: Faculty of Veterinary Medicine, University of Nigeria, Nsukka, Nigeria.
- 19). Ayomide G. Olusola, **Asowata-Ayodele A.M.***, Olalekan Olatuyi, Felix Afolabi, Aanuoluwa J. Salemcity Babawale Peter Olatunji (2025) "Investigating the behavioral and antioxidative effects of ethanolic extract from *Schumannioophyton magnificum* (K. Schum) in ketamine induced mice. *International Journal of Botany and Horticulture Research*.

5. Edited and Referred Conference proceedings:

- 20). **Asowata-Ayodele A.M.**, "Antiuro lithiatic potentials of extracts from *Lippia javanica* and *Foeniculum vulgare* plants. Pages 58-70 (1st Faculty of Basic and Applied Sciences FBASCON 2019 held at Elizade University (EU), Ilara-Mokin, Ondo State, Nigeria on the 21st- 24th, June, 2019).
- 21). Olowolaju E.D, **Asowata- Ayodele A.M.**, Adetimehin O.M., Endangered indigenous vegetable in South-Western Nigeria and their role in enhancing food security and health, 2024, Pg 165- 172. (2nd UNIMED Faculty of Science conference: "Bridging Scientific Research and Healthcare: Exploring Emerging Trends" @ Tetfund Hall, 23rd-26th September, 2024).

6. Articles accepted for publication:

Book chapters accepted for publication

- 22). **Abiola Mojisola Asowata-Ayodele**, Tunbi Damilare Ojo, Temitayo Esther Adeyeoluwa, Ezekiel Olowolaju, Timothy Bamgbose. Risk assessment of harvesting of bioactive compound of tropical plants for conservation and sustainable management purposes. (2024). In a textbook entitled Functional foods and bioactive ingredients: health benefits, production technology and commercialization" published in CRC Press.
- 23). Temitayo Esther Adeyeoluwa, Oluwabunmi Arogundade, Felix Olaide Afolabi, **Abiola M. Asowata-Ayodele**, Timothy Bamgbose. (2024). **Metabolic profiling of bioactive compounds and therapeutic uses**. In a textbook entitled Functional foods and bioactive ingredients: health benefits, production technology and commercialization" published in CRC Press.

7. Manuscripts submitted for publication:

Book chapters undergoing review

- i. Olumoye E.O. Asowata-Ayodele A.M., Olawoyin T.G., & Olatunji B.P. "Models Organisms in Biological Research"- "Phytopathogens" Manuscript ID: **VKPK_2025_1**

- ii. Antimicrobial evaluation of *Momordica charantia* against urinary tract infections and its chemical profile. **Asowata-Ayodele A. M.**, Abosede Blessings, Momoh Abdul Onoruoiza, Olaide Felix Afolabi, (2024)
- iii. **Asowata-Ayodele A. M.**, Doyinsola Mogaji, Olatunji Babawale Peters, Olatuyi Olalekan Marvelous, Olaide Felix Afolabi, (2024) Neuroprotective potentials of Ethanolic leaf extract of *Anchomanes Difformis* leaves against AlCl₃ induced Toxicity in wistar rat model-Alzheimer Disease Model.
- iv. **Ayodele-Asowata, A.M.**, Olowolaju , E.D. and Olawale J.T (2025). Screening of Metabolite leaf extract of *Carica papaya* and *Jatropha curcas* and their Termicidal potential against *Macrotermes Bellicosus* (African Termite) (*International Journal of tropical Insect Science*).
- v. Olowolaju E.D. and **Asowata –Ayodele A.M.** (2025). Gene editing Tool: Panacea to Sustainable Agriculture (*Nigerian Journal of Biotechnology*).
- vi. **Asowata –Ayodele A.M**, Ilori Ayomide, Olowolaju E.D., & Abdul Momoh, Antimicrobial activities and heavy metals tolerance of *Cremaspora triflora* (Clinical Studies)

8. Creative Work:

Founder & Lead Consultant – Asobotanique Herbal Clinic, Akure, Ondo State,, Nigeria, /(Registered in the year 2025)

Our Objectives is to;

- i. Provide evidence-based herbal consultation and holistic health services using African medicinal plants.
- ii. Formulate and dispense natural remedies (e.g., teas, tinctures, oils) for preventive and therapeutic care.
- iii. Integrate diet, lifestyle and traditional medicine approaches to support wellness, fertility and chronic disease management.
- iv. Lead product development, quality control and client education on safe herbal practices.
- v. Conduct ethnobotanical research and promote community awareness on natural health solutions.

9. Technical Reports:

Panel Discussant:

- i. In 2nd Faculty of Science conference, 2024 to discuss “the role of Nutraceutical’s in Disease Prevention.”

- ii. In Women in Chemistry, IUPAC 2025 Global Women Breakfast to discuss on accelerating equity in Science.

10. Paper and Work in Progress

- i. Abiola M. Asowata-Ayodele, Olumoye Ezekiel Oyetunji, Enhanced Probiotic functionality of microbes using genomic approaches (Book chapter)
- ii. **Asowata-Ayodele A.M.**, Tunbi Ojo Rich genetic diversity influences drug development and discovery of new compounds. Genetic Diversity in Medicinal Plants – Challenges, Threats, and Future Applications”, Springer Nature Singapore (Book Chapter)
- iii. Omolaso B., **Asowata-Ayodele A.M.**, Olowolaju E.D., Induction of *Pleurotis ostreatus* and *Pleurotus pulmonarius* with arbuscular mycorrhizae fungi under drought condition (Ongoing M.Phil/PhD work).
- iv. Olugbemiro, **Asowata-Ayodele A.M.**, Olowolaju E.D., Management Responses to worm evasion and its effects on plant Physiognomy and Biodiversity in Afin-Akoko, South Western, Nigeria (Ongoing PhD student work).
- v. Jegede B. T., **Asowata-Ayodele A.M.**, Olowolaju E.D.- Comparative study of Hypersensitivity of Psychoactive and Non-psychoactive plant on wistar rat (Ongoing M.Sc student work)
- vi. Adeniran E. G. **Asowata-Ayodele A.M.**, Oyetunji E. O- Harnessing fungi-plant synergies for accelerated Biodegradation of polyethylene plastics: Enzymatic Mechanisms and Rhizosphere Engineering (Ongoing M.Phil/PhD student work).
- vii. Olawoyin T.G. **Asowata-Ayodele A.M.**, Agbowuro G. A. Developing early maturing maize with improved nitrogen use efficiency (NUE) (Concluded M.Sc. student work)

F. Professional Accomplishment:

- i. Conducted pioneering ethnobotanical research on African medicinal plants & spices, preserving indigenous knowledge and exploring therapeutic potentials which receives several citations daily.
- ii. Published over 15 peer-reviewed articles on phytochemistry, pharmacology and plant micromorphology, including discoveries of antioxidant and neuroprotective effects in local species.
- iii. Contributed several book chapters on algae-derived nutraceuticals and natural compounds with antiulcer and anticancer activities.

- iv. Developed and delivered university courses in Plant Biology, Phytotherapy, Medicinal Chemistry and Herbal medicine mentoring students in research and practical applications.
- v. Founded Asobotanique Herbal Clinic, translating research into evidence-based herbal remedies and holistic health services which has helped to save lives in the community.
- vi. Served as a reviewer for several journals including *Ife Journal of Science*, *Drug Target Insights*, *Advances in Environmental Health Sciences* and *Toxicology*.

G. Conference, Seminars and Workshops Attended with Dates:

- ✓ 6th Pharma –Food Congress Functional Food and Phytomedicines: All emerging nexus for Health care Management in Humans and Animal Husbandry, 11-14 Nov, 2024 held at Ibadan, Oyo State, Nigeria.
- ✓ 2nd UNIMED Faculty of Science conference: "Bridging Scientific Research and Healthcare: Exploring Emerging Trends" @ Tetfund Hall, 23rd-26th September, 2024.
- ✓ 8th International SOMPED conference, 2024 on Medicinal Plants: Role in Contemporaneous Healthcare and Economic Resilience @ Elomaz hotel , Ikeja Lagos, August 2024.
- ✓ NOUN-Notre Dame Online Training Course and Research Project on Ethics and Sustainability of Artificial Intelligence for Nigerian Higher Education Lecturers, **virtual**.
- ✓ Pharma-Food Congress 2023, Theme: Functional Foods and Phytomedicine: Promoting Translational Research for Societal Impact at the University of Medical Sciences, Ondo, Nigeria. 13th- 16th, November, 2023.
- ✓ 1st Faculty of Science Conference 2023, University of Medical Sciences, theme "Recent Advances in Sciences for Economic and Sustainable Healthcare Promotion. 28th-31st August, 2023. Book of abstracts, page 4 and 52. Alexander Von Humboldt Conference (Humboldt-Kolleg Akure 2023), 6th- 8th of June, 2023
Poster presentation on Histopathological and Biochemical Analysis of Ethanolic Extract of *Anchomanes difformis* Leaves, Commonly Consumed Vegetable, against AlCl₃ Induced Toxicity in Wistar Rat. Page 57 in book of abstract. Humboldt International Conference (LASU-Humboldt-Kolleg, Ojo, Lagos, 2023) May 1 – 5, 2023. Conference participation with evidence of certificate.

- ✓ 4th Pharma–Food Congress 2022, with the theme “on the role of functional Foods and Nutraceuticals in the Era of COVID-19 @ Landmark University, Omu-aran. 4th-7th October, 2022. Paper presentation: Chemical profile and anti-anaemic studies of methanolic extracts of ***Anchomanes difformis***. Abiola M.Ayodele-Asowata, Olatunji Peter Babawale, Folusho Olomiyete, Felix Afolabi, Oghale Godwin. (Book of abstract, page 14).
- ✓ 6th Annual International Conference of the Society for Medicinal Plants and Economic Development (SOMPED) Virtual, 23rd-25th August, 2022. Paper Presentation: Olatunji Peter Babawale, Arowosegbe Sunday, ²Adeleke Chinyere Oluwaseyi, Obawumi Damilola, **Asowata Mojisola Abiola**. Nicotine content and dietary composition of some cultivated species of Solanaceae family, (Book of abstract, page 22).
- ✓ 24th Indigenous Plant use Forum Conference, through webinar on zoom platform, <http://zoom.us/j/93961514368>. 27 June-01 July, 2022, University of Johannesburg, Johannesburg, South Africa. Paper Presentation: **Asowata-Ayodele A.M.,** Olatunji B.P., Ijomone O., and Godwin O.O. **(2022)**. Neurochemical impact of *Parquetina nigrescens* on aluminum chloride-induced cognitive impairment in male wistar Rats.
- ✓ 5th International Science Conference. Federal University Oye Ekti, Nigeria. 10th - 12th January, 2022. Paper Presentation: Olatunji B.P, Adenigba O, Bello O.O, Godwin O.O and **Asowata-Ayodele A.M.,** Comparative Nutritional Analyses and Antimicrobial potential of *Ludwigia decurrens* and *Corchorus olitorius* (Book of abstract Page 29).
- ✓ Maiden International Conference on Health, safety and environment (hybrid), 'Advancing environmental health and safety through sustainable synergy between town and gown at University of Benin, 11th to 14th May, 2022. Poster presentation: Godwin O.O., Idu M., ATOE K., Olatunji B.P., **Asowata-Ayodele A.M.,** Anti-fertility and pro-fertility activities of *Desplatsia dewevrei* on wistar rats. (Book of abstract Page 61).
- ✓ 54th Annual (Hybrid) Conference of the Science Association of Nigeria held at Faculty of Science, University of Ibadan, June 20-24, 2021. Paper Presentation: Ekundayo, E.A., Adegboyega, G. N., **Asowata-Ayodele A. M.,** Ilemobayo, A. and Adelakun, I. Physicochemical properties and bacteriological analysis of sachet water samples purchased from Akure town, Ondo State, Nigeria.
- ✓ 4th Annual International Conference of the Society for Medicinal Plants and Economic Development (SOMPED) held at the National Open University of Nigeria, Abuja, from 26-29 August, 2019. Paper Presentation: **Ayodele-Asowata AM,**

Otunola GA and Afolayan AJ (2019) Antiurolithiatic potentials of extracts from *Lippia javanica* and *Foeniculum vulgare*. (Book of abstract, page 52).

- ✓ Pharma-Food Congress held at the Main Auditorium, The Federal University of Technology (FUTA), Akure, Ondo State, Nigeria, on the 21st to 24th July, 2019. Paper Presentation: **Ayodele-Asowata AM**, Otunola GA and Afolayan AJ (2019) Chemical Components and Biological activities of essential oil from *Lippia javanica* and *Foeniculum vulgare*. (Book of abstract, page 37).
- ✓ 26th Annual Conference of Botanical Society of Nigeria (BOSON), held at the Ekiti State University, Ado Ekiti, Ekiti State, Nigeria on the 12th-17th August, 2018.
- ✓ 24th Annual Conference of Botanical Society of Nigeria (BOSON), held at the University of Ibadan, Oyo State, Nigeria on the 14th-18th August, 2016. Paper Presentation: **Ayodele-Asowata AM**, Otunola GA and Afolayan AJ (2016). Foliar micromorphology of *Foeniculum vulgare* (Apiaceae). (Book of abstract, page 14)
- ✓ 25th South African Society of Biochemistry and Molecular Biology (SASBMB) Congress held at the East London International Convention Centre, South Africa. A Poster presentation: Otunola GA, **Ayodele-Asowata AM** and Afolayan AJ (2016). Polyphenolic content and biological activities of *Lippia javanica* (Burm.F.) Spreng ; July 10th -14th, 2016.
- ✓ 21st annual Conference of Botanical Society of Nigeria (BOSON) plants: "Conserve to use, Use to conserve" held at Department of Botany, Obafemi Awolowo University, Ile-Ife. 3rd- 7th June, 2012.

b. Workshops

- ✓ A 3-day onsite **Workshop on Initiating, Developing and Deploying Open and Distance Learning (ODL) in Higher Education in Nigeria**. Held at centre for Distance Learning Obafemi Awolowo University, Ile-Ife, 28th -30th October, 2024.
- ✓ Virtual training on **NOUN-Notre Dame Online Training Course and Research Project on Ethics and Sustainability of Artificial Intelligence for Nigerian Higher Education Lecturers**. Monday, 8th July to Friday, 30th of August 2024
- ✓ Virtual training on Molecular Dynamics Simulation in Bioscience Research: From Theory to Practice, Organized by Quarxon Bio Molecular Docking, 6th of May, 2024
- ✓ Training on the use of Power point for effective communication organized by the office of DVC UNIMED held at TETFUND hall, 6th September, 2023.

- ✓ A 2 day 2023 leadership Orientation programme training, held @UNIMED Tetfund hall, 4TH-5TH August, 2023.
- ✓ A one day training for all academics staff Organized by: Office of the Deputy Vice Chancellor (Academic); The Postgraduate School; Central Office for Research and Development (CORD) of University of Medical Sciences, Ondo on Imperatives of Student Supervision and Oversight at UNIMED held on 28th March, 2023,
- ✓ A webinar workshop by Africa Mentorship and Coaching Programme (AGMCP) on Essentials of Research Publication in high impacts Journals, 28th June, 2022. Through zoom link. ID 87890638615.
- ✓ A 2-day ACURET- UNIMED Ondo Animal Ethics Training held at TETFUND Lecture Theatre Laje Campus, UNIMED Ondo, on the 5th -6th December, 2022.
- ✓ A webinar workshop on "Quantitative methods for study design and data analysis in implementation science research", 27th June, 2022. Through zoom. ID 94554995835
- ✓ A one-day Workshop on use of searching tools and plagiarism checkers organized by the University of Medical Sciences, Ondo on 14th of June, 2022.
- ✓ Grantmanship Workshop series 2, Developing a Research proposal and budget, held at University of Medical Sciences, Bolunrunduro campus, Ondo State, Nigeria on the 29TH- 30TH November, 2021.
- ✓ Pedagogy teachings and learning in Higher Institution, held at University of Medical Sciences, Odosida campus, Ondo, Ondo State, Nigeria on the 23RD- 25TH November, 2021.
- ✓ Advanced Digital Appreciation Programme for Tertiary Institutions (ADAPTI) Training on Statistical Analysis using Statistical Package for Social Sciences (SPSS) from 5 – 9 July 2021 at UNIMED.
- ✓ A One-Day Capacity Building Workshop on Ethical Issues in Academia, Research, and Publications organized by the University of Medical Sciences, Ondo on 19 May 2021. "Scopus, Mendeley, Researcher Academy Training" on 30 April 2020 (Harare, Pretoria; Webinar).
- ✓ Attended a webinar workshop on Entrenching Integrity and Combating Fraud in the Examinations and Records Administration of Tertiary Institutions organized by QRS Associates, Inc. from 20th to 21st April 2021, held at Council Chamber through Zoom link, UNIMED.
- ✓ Workshop on use of HINARI/Research4Life platform & Literature searching organized by the University of Medical Sciences, Ondo on 2 March 2021.

- ✓ Training on Mendeley Reference Management System organized by the University of Medical Sciences, Ondo on 2 March 2021.
- ✓ Attended a workshop on "Introduction to Bioinformatics and its application in biomedical research" organized by the University of Medical Science (UNIMED) in collaboration with the Africa Centre of Excellence in Genomics of Infectious Diseases (ACEGID), Redeemers University, Ede held at E-library, UNIMED on the 25th- 29th November, 2019.
- ✓ Attended the 1st workshop on "Developing the next Generation of Researchers" held at University of Ibadan, Nigeria on the 2nd- 4th April, 2019, funded by the Association of Commonwealth Universities.
- ✓ Attended the workshop on "R and Python software" held at Elizade University, Ilara-Mokin, Ondo State on the September 24-25, 2018.
- ✓ Attended the 2nd workshop in Ornithology held at Elizade University (EU), Ilara-Mokin, Ondo State on the 10th-14th September, 2018.

H. Current Research Activities:

- i. Awareness, Usage and Cultural Beliefs Surrounding Herbal Medicine among University Students (An ongoing ethnobotanical survey through PBT 300 level undergraduate students)

I. Current Relevant Information:

Services within University of Medical Sciences (UNIMED), Ondo.

1. Departmental responsibilities:

- ✓ Coordinator, Plant Biology and Biotechnology Unit (February, 2023 till date)
- ✓ Time table officer (2021/2022 – 2023/2024 session)
- ✓ 400 level course advisor (2021/2022- 2023/2024 session)
- ✓ Examination officer (2019/2020- 2020/2021 sessions)
- ✓ Chairman, Welfare Committee (2019/2020- 2020/2021 sessions)
- ✓ Secretary, Curriculum Committee (2019/2020- 2020/2021)
- ✓ Member, Seminar Committee (2019/2020- 2020/2021 sessions)
- ✓ Member, Departmental Postgraduate Board- 2020- till date

2. Faculty responsibilities:

Member, Faculty research cluster on functional foods- 2021- till date.

3. University responsibility:

- ✓ **Deputy Director Academics,** Institute of Distance learning and Continuing Education, UNIMED, 1st August, 2024- 31st July, 2025.
- ✓ **Coordinator,** Pre-degree Programme, UNIMED, 2023/2024 session

- ✓ **Member, Local Organizing Committee:** 5th Pharma–Food Congress 2023, with the theme “Functional foods and phytomedicines: Promoting Translational Research for Societal Impact, coming up on 13th- 16th November, 2023.
- ✓ **Member,** University Investigative Panel on Remarking of Student’s scripts 27th March, 2023 till date)
- ✓ **Chairman, Local Organizing Committee:** A one- day scientific forum on herbal medicine held at TETFUND hall, 31st August, 2023.
- ✓ **Member, Local Organizing Committee:** Women in Science (Chemistry) hosted at UNIMED 14th of February, 2023.
- ✓ **University responsibilities: Member,** Center for Herbal Medicine and Drug Development, University of Medical Sciences, Ondo. May, 2021- till date.

4. Services outside UNIMED

Elizade University, Ilara-Mokin, Ondo State.

- ✓ Chairman, Departmental Welfare Committee (2018/2019 session)
- ✓ Member, Local Organizing Committee (LOC), 1st Faculty of Science Conference held at Elizade University (EU), Ondo State, Nigeria on the 21st- 24th, June, 2019.

Wesley University, Ondo, Ondo State.

- ✓ Departmental and Faculty Examination officer (2013/2014 session)

5. Community activities:

Ondo State Coordinator, Motherhood NGO:

- ✓ Distributed of gifts items to orphanage homes within Ondo State
- ✓ Participated in distribution of safe birth kits to pregnant women within Ilara-mokin and Akure communities (2019-till date)

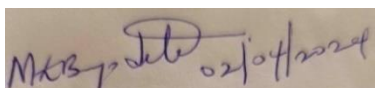
J. Contributions to knowledge:

As a Plant Scientist, Ethnobotanist and a Senior Lecturer, I, Dr. Abiola Mojisola Asowata-Ayodele, have dedicated my career to advancing knowledge at the intersection of traditional medicinal plant use, phytochemistry and pharmacological research. My work has provided significant ethnobotanical insights, including the documentation of culinary herbs and spices used in South Africa’s traditional medicinal systems (Asowata-Ayodele et al., 2016), preserving indigenous knowledge critical for future therapeutic discoveries. I have contributed to the anatomical and micromorphological characterization of medicinal plants such as *Lippia javanica* and *Foeniculum vulgare* (2016, 2019), strengthening botanical identification tools essential for quality control in herbal medicine.

My research into bioactive compounds has established the antioxidant, anti-inflammatory, and antimicrobial potentials of various plant species, such as *Lippia javanica* (2016), pineapple peels, coconut kernel (2017), citrus peels (2019) and *Anchomanes difformis* (2024), demonstrating their promise for novel therapeutic applications. I have further explored the neuroprotective and chemoprotective effects of plant-derived compounds, as shown in my studies on roasted cashew nuts against cisplatin-induced brain toxicity (2022) and the use of *Parquetina nigrescens* in mitigating aluminium chloride-induced cognitive impairment (2024).

As an academic, I have contributed to curriculum development and teaching in plant biology, phytotherapy and pharmacognosy, equipping students with theoretical knowledge and practical skills in medicinal plant research. I have also co-authored book chapters on algae and cyanobacteria as nutritional supplements (2024), and on sulfated polysaccharides with antiulcer and anticarcinogenic potentials (2023), expanding the scientific discourse on natural products in health and nutrition.

Through Asobotanique Herbal Clinic, I translate research into practice by formulating evidence-based herbal remedies and offering holistic consultations that integrate diet, lifestyle and traditional medicine. My entrepreneurial activities complement my scholarly pursuits, promoting safe and sustainable use of African medicinal plants for community health and well-being. Collectively, my contributions bridge traditional knowledge and modern science, fostering innovation in natural therapeutics and phytomedicine.



10th of July, 2025

Signature

Date