

CURRICULUM VITAE

- I. (a) Name: Abiodun Emmanuel **Ayodele**
(b) Date of birth: 31 December, 1962
(c) Department: Botany
(d) Faculty: Science

- II. (a) First Academic Appointment : Assistant Lecturer , 2 January, 1996
(b) Present post (with Date): Professor, 1 October, 2010
(c) Date of last Promotion: 1 October, 2010

III. **UNIVERSITY EDUCATION (with dates):**

1. University of Ife, (Now Obafemi Awolowo University) Ile-Ife (1981-1985)
2. University of Lagos, Akoka, Lagos (1989 - 1990)
3. University of Lagos, Akoka, Lagos (1993 - 2000)

IV. **ACADEMIC QUALIFICATIONS (with dates & Granting Bodies):**

1. B. Sc. Botany - University of Ife (1985)
2. M. Sc. Botany - University of Lagos (1990)
3. Ph. D. Botany - University of Lagos (2000)

V. **SCHOLARSHIPS, FELLOWSHIPS AND MEMBERSHIP OF LEARNED SOCIETIES:**

2005 CAS/TWAS Visiting Scholar Fellowship to Kunming Institute of Botany, Kunming, Chinese Academy of Sciences, China

2010 CAS/TWAS Visiting Scholar Fellowship to Institute of Botany, Chinese Academy of Sciences, Beijing, China

2023 Fellow of the Science Association of Nigeria (FSAN)

2023 Fellow of the Linnaean Society, London (FLS)

Member- International Association of Plant Taxonomists (IAPT)

Member-African Ethnobotany Network (AEN)

Member-Nigerian Field Society

Member-Ecological Society of Nigeria (ESN)

Member-Science Association of Nigeria (SAN)

Member-Botanical Society of Nigeria (BOSON)

VI. **DETAILS OF TEACHING EXPERIENCE**

- (i) 1996 - 1998: Assistant Lecturer, Department of Botany & Microbiology, University of Ibadan, Ibadan
- (ii) 1998 – 2001: Lecturer 11, Department of Botany & Microbiology, University of Ibadan, Ibadan

- (iii) 2001- 2004 : Lecturer 1, Department of Botany & Microbiology,
University of Ibadan, Ibadan
- (iv) 2004 – 2007: Senior Lecturer, Department of Botany & Microbiology,
University of Ibadan, Ibadan
- (v) 2007 – 2010: Reader, Department of Botany & Microbiology, University
of Ibadan, Ibadan
- (vi) 2010- Date Professor, Department of Botany, University of Ibadan, Ibadan

(a) **Undergraduate Courses** **Units**

BOT 121	-	Introductory Biology of Phanerogams	3
BOT 241	-	General Botany III	3
BOT 341	-	Taxonomy, illustrated by Angiosperms	3
BOT 343	-	Introduction to Palaeobotany	3
BOT 342	-	Plant Anatomy	3
BOT 431	-	Weed Ecology	3
BOT 441	-	Advanced Taxonomy of Angiosperms	3
BOT 442	-	Palynology	3

(b) **Postgraduate Courses**

BOT 740:	Herbarium Techniques, Classification, Identification and Nomenclature	3
BOT 741:	Biosystematics	3
BOT 742	Advanced Palynology	3
MEB 741	Melissopalynology	3

(c) **Undergraduate Project Supervision**

Already Supervised 44

(d) **Postgraduate Project Supervision**

Already supervised PhD	7
Under Supervision (PhD)	3
Already supervised (MSc)	41
Under supervision (MSc)	4

VII. OTHER ACADEMIC /ADMINISTRATIVE DUTIES

Director, Academic Planning Unit, Office of the Vice Chancellor, University of Ibadan, Ibadan: 1 April, 2024 to Date

Chairman, University of Ibadan, Multidisciplinary Central Research Laboratory: 1 February, 2022 to 31 April, 2024

Member, Senate representative on the Joint Selection Board for the Appointment of University Librarian: 2022

Member, University of Ibadan Strategic Plan Implementation Ad-Hoc Committee (2021-2026)

Dean, Faculty of Science, University of Ibadan, Ibadan: 1 August, 2019 to 31 July, 2021

Head, Department of Botany, University of Ibadan: 1 August, 2016- 31 July, 2019

Member, University Senate: (1998-2010) and 2012 to Date

Coordinator Botany Unit, Department of Botany & Microbiology, University of Ibadan, Ibadan
(2009/2010 Session)

Sub- Dean Biological & Earth Sciences, Faculty of Science, University of Ibadan. Ibadan
(2002-2004)

Member, Departmental Finance Committee (2004-2005), (2015-2019)

Member, Faculty of Science Finance Committee (1997-2002)

Member, Faculty of Science Appointment and Promotions Committee (2008- 2009), (2013-Date)

Member, Faculty of Science representative on Faculty Board of Veterinary Medicine (2001-2003)

Member, Faculty of Science representative on Faculty Board of Agric and Forestry (2000/2001)

Member, Faculty of Science representative on Farm users Committee (2000/2001)

Congregation representative on Board of Staff School, University of Ibadan, (2007-2009)

Curator, University of Ibadan Botanic Gardens (2004 to 2014)

Curator, University of Ibadan Herbarium (UIH) (1996 to 2016) and 2022 to Date

Students' Liaison Officer, Dept. of Botany and Microbiology, University of Ibadan (2002 -2006)

Staff Adviser, The Special Club (for disabled students), University of Ibadan

Staff Adviser, National Association of Akure Students, University of Ibadan Chapter

Staff Adviser, National Association of Botany Students, University of Ibadan Chapter

Chairman, Parents Teachers Association, University of Ibadan Staff School, Ibadan (2012-2016)

Member, Senate Curriculum Committee (2015- 2016)

Member, Staff Housing Loan Committee (2015- 2016)

Member, Senior Staff Disciplinary Committee Panel "E", University of Ibadan, Ibadan (2015-2016)

VIII AREAS OF SPECIALISATION

- (a) Taxonomy and Systematics of flowering plants
- (b) Medicinal plants Systematics
- © Biodiversity conservation
- (d) Ethnobotany
- (e) Environmental Impact Assessment and Audit

IX. MY RESEARCH FOCUS

My field of research is Plant Taxonomy & Systematics focusing mainly on the West African flora. My studies encompass taxonomy, systematics, chemosystematics, molecular systematics, ethnobotanical surveys as well as Environmental Impact Assessments on the Vegetation. I have used both macro and micro morphological features with the aid of Light and Scanning Electron Microscopes to elucidate and discuss relationships between and among taxa. I have worked extensively in the last years on the taxonomic revision of the family Polygonaceae in West Tropical Africa with a view to determining the different taxa present within the subcontinent, the taxonomic delimitation, and variation within each taxon and between taxa in the family. This work has produced a subspecies new to science and so named *Persicaria salicifolia* (Brouss. ex Willd.) Assenov. subspecies *mambillensis* Ayodele (Ayodele & Olowokudejo, 2002). I have, together with my colleagues and students conducted research in many plant taxonomic groups which contain medicinally important species such as in the tribe Dalbergieae, families Myrtaceae, Loranthaceae, Bignoniaceae and Combretaceae as well as in the genera *Dialium* (Caesalpinioideae), *Synsepalum* (Sapotaceae), *Alchornea* (Euphorbiaceae), *Ixora* (Rubiaceae), *Plumbago* (Plumbaginaceae), *Brachystegia*, *Hyptis* (Labiatae), *Cola* and *Grewia* (Malvaceae), *Albizia* (Mimosaceae), *Rauvolfia* (Apocynaceae), *Andrographis* (Acanthaceae), *Phyllanthus* (Phyllantaceae) and *Khaya* (Meliaceae). We have, through these studies emphasized the importance of leaf micro characters and chemical characters in the identification and delimitation of taxa particularly if even they occur in fragmentary conditions- the state in which most collectors use them. In collaboration with other groups, I have, also in conjunction with other colleagues, been involved in ethnobotanical survey of plants used in the treatment of diseases such as tuberculosis and diabetes as well as those involved in ethno veterinary medicine. I have also been involved in many Environmental Impact Assessment studies especially on the vegetation in many parts of the country particularly in the Niger Delta region.

X. CURRENT RESEARCH:

1. Morpho-genetic diversity and conservation of indigenous leafy vegetables of Southwestern Nigeria

The morphological and genetic diversity of neglected or rarely cultivated indigenous leafy vegetables of southwestern Nigeria is being investigated. Despite their numerous benefits, especially medicinal, most of the notable leafy vegetables of Yorubas have been abandoned mainly by urban dwellers and replaced with the greens (*Amaranthus* species) and *Celosia* spp. This work is an attempt to collect the germplasms of the vegetables from available parts

of the southwest, screen them and conserve them possibly in gardens around the area. It is envisaged that providing the importance of these plants may encourage people to bring them into cultivation

2. Morpho-genetic diversity of selected crops of Nigeria and their responses to climate change

The several losses recorded from some crops in recent times particularly in the northern parts of Nigeria necessitate an investigation of the impact of climate change on the growth and development of the plants. There is need to characterise, identify, classify and select morphological and genetic traits capable of adapting these plants to drought and pest infestation stresses which are the major militating factors against crop yield in the region. This study focuses on *Sacchararum officinarum* (sugarcane) and other major crops both in the northern and southern regions of Nigeria.

3. Aeropalynological investigations of different areas of Ibadan, Oyo State

Many Nigerians are allergic to substances dispersed in air and some of these are pollen and spores. Often, such patients are treated for unrelated illnesses. Allergy when suspected and treated rarely take cognizance of airborne particles but reactions to drugs or food. Several studies of the pollen and spores in air have been conducted in several parts of Nigeria and the areas of high risk mapped. This is an attempt to extend such studies to Ibadan, a large cosmopolitan town and the nerve center of Oyo State, Nigeria

4. Taxonomic studies in the family Sapotaceae

This is a continuation of the systematic studies of taxa of economic importance in Nigeria. Some plant families such as the Polygonaceae, Tiliaceae, Sterculiaceae, Loranthaceae, Phyllanthaceae, Combretaceae and genera such as *Grewia* Linn., *Alchornea* Sw. *Cola* Schott.&Endl. and *Khaya* A. Juss., have been studied. The revision of the Sapotaceae is embarked upon with a view to understanding the taxonomic and evolutionary relationships among the various species in the family. Previous studies have revealed the diversity of these taxa and their distribution in Nigeria with new habitats discovered and new taxa revealed. The results continue to serve as an update to the records of the studied taxa in Nigeria

XI Dissertation and Thesis

- (a) B. Sc. Dissertation: Dimensional variations in cells of the secondary xylem of *Delonix regia* (Boj. ex. Hook). Raf. 28pp. University of Ife, Ile -Ife, 1985
- (b) M. Sc. Dissertation: Comparative leaf morphology and anatomy of the family Myrtaceae in West Africa. 85pp. University of Lagos, Lagos, 1990
- (c) Ph.D. Thesis: Systematic studies in the family Polygonaceae. 241pp. University of Lagos, Lagos, 2000

XII PUBLICATIONS:

- (1) **Ayodele, A. E.** and Pereira-Sheteolu, A.O. (1993). Variation in fibers and vessel elements of *Delonix regia* (Caesalpiniaceae). Boletim da Sociedade Broteriana 66: 153-159.

- (2) **Ayodele, A.E.** (1996). Ethnobotany, conservation and sustainable development. In: E. Obot and J. Baker (eds). Proceedings of the Workshop on the Rainforest of Southeastern Nigeria and Southwestern Cameroon, Cross River National Park, Okwangwo Division, Nigeria, Pp 51-56.
- (3) Chukwuka, K. S., **Ayodele, A. E.**, and Osonubi, O. (1996). Environmental Impact Assessment of the Rainforest Vegetation in Agbara Industrial Estate, South Western Nigeria. In: E. Obot and J. Baker (eds.). Proceedings of the Workshop on the Rainforest of South Eastern Nigeria and South Western Cameroon, Cross River National Park, Okwangwo Division, Nigeria. Pp. 268-273
- (4) **Ayodele, A.E.** and Olowokudejo, J.D. (1997). Systematic importance of leaf and epidermal characters in West African species of family Myrtaceae. Boletim da Sociedade Broteriana **68**: 35-72.
- (5) Chukwuka, K.S. and **Ayodele, A.E.** (1997). Environmental audit of the Tunu/Kanbo forests of the Niger Delta, Nigeria. In: Ogunyemi, S. and Ojo, O. (eds.). Proceedings of the Biennial Conference of Ecological Society of Nigeria (ECOSON), University of Agriculture, Abeokuta, Ogun State, Nigeria. Pp. 99-101.
- (6) Sheteolu, A.O. and **Ayodele, A.E.** (1997). Epidermal Morphology of the genus *Dialium* (Fabaceae: Caesalpinioideae). Feddes Repertorium **108**: 151-158.
- (7) **Ayodele, A.E.** (1999). Epidermal Morphology of Nigerian Species of *Synsepalum* (Sapotaceae). Journal of Science Research **5** (1): 43-48
- (8) **Ayodele, A.E.** and Chukwuka, K.S. (1999). The morphology and ecology of the genus *Synsepalum* (A.D.C.) Daniell (Sapotaceae) in Nigeria. Nigerian Journal of Ecology **1**: 13-19.
- (9) **Ayodele, A. E.**, Garba, B.B. and Chukwuka, K.S. (1999). Comparative epidermal morphology of Nigerian species of *Alchornea* (Euphorbiaceae). Journal of Science Research **5**(1): 38-42.
- (10) **Ayodele, A.E.** and Gbadebo, J.O. (1999). Foliar Epidermal Characteristics and Preliminary Phytochemistry of *Ixora Coccinea* Linn. and *I. parviflora* Vahl. Bioscience Research Communications **11** (2): 73-79.
- (11) Ashidi, J. S., Gbile, Z. O. and **Ayodele, A. E.** (1999). Ethnobotanical Studies of anti-tuberculosis Plants in Egbado, Ogun State, Nigeria. Nigerian Journal of Science **33**: 309-314
- (12) **Ayodele, A.E.** (2000). Foliar Epidermal Characteristics of the genus *Plumbago* Linn. (Plumbaginaceae) in Nigeria. Nigeria Journal of Science **34** (1): 9-13.
- (13) Ogundipe, O.T. and **Ayodele, A.** (2000). Foliar Epidermal Characters in the genus *Brachystegia* Benth. Bioscience Research Communications. **12**(1): 89-95.
- (14) **Ayodele, A. E.** and Olowokudejo, J.D. (2002). Population variation in *Persicaria salicifolia* (Brouss. ex Willd.) Assenov (Polygonaceae) in Nigeria. Feddes Repertorium **113**: 511-517

- (15) **Ayodele, A.E.** (2003). The Distribution and Ecology of the West African Polygonaceae. *Nigerian Journal of Ecology* 5: 46-49
- (16) **Ayodele, A. E.** , Ibidun, D.K., and Ogunshe, A.A.O.(2003). The morphology and preliminary phytochemistry of *Albizia saman*(Jacq.)F. Mull. *Bioscience Research Communications*. 15(6): 463-467
- (17) Kadiri, A. B. and **Ayodele, A. E.** (2003). Comparative leaf micromorphological characters of the Nigerian species of *Rauvolfia* Linn. (Apocynaceae) . *Bioscience Research Communications*. 15(6): 469-474
- (18) **Ayodele, A. E.** (2005). The medicinally important leafy vegetables of south western Nigeria. *Ethnobotanical leaflets*, <http://www.siu.edu/~ebl/leaflets/ayodele.htm> (100%)
- (19) Goji, T. C. and **Ayodele, A. E.** (2005). Foliar epidermal and pollen characters in the genus *Cola* Schott. & Endl. in Nigeria. *acta SATECH* 2(2): 57-63
- (20) Esan, E. B., Denton, O. A., **Ayodele, A. E.** and Ogunwenmo, K. O. (2005).The establishment of the Babcock University Garden Croton Germplasm Repository. *Babcock University Colloquium Series* 2: 29-36
- (21) Ashidi, J.S., Abo, K. A. and **Ayodele, A. E.** (2005). Ethnobotanical survey of anti-diabetic plants in some local Government areas in Ogun State, Nigeria. *Journal of Pure and Applied Sciences* 1(1): 6-9
- (22) Ogunshe, A.A.O., **Ayodele, A.E.** and Okonko, I.O. (2005). Microbial Studies on *Aisa*: a potential indigenous laboratory fermented food condiment from *Albizia saman* (Jacq.)F. Mull. *Pakistan Journal of Nutrition* 5(1): 51-58
- (23) **Ayodele, A. E.** (2005). The morphology and taxonomic significance of Pollen in the West African Polygonaceae. *Thaiszia Journal of Botany*. 15: 143-153
- (24) **Ayodele, A. E.** and Olowokudejo, J.D. (2006). The family Polygonaceae in West Africa: Taxonomic significance of leaf epidermal characters. *South African Journal of Botany*. 72: 442-459
- (25) Ibrahim, A. I., **Ayodele, A. E.**, Jegede, A. I. and Kunle, Y. F. (2006).Comparative Studies on *Khaya*.A. Juss.(Meliaceae) in Nigeria.. *African Journal of Biotechnology*. 5(11): 1154-1160
- (26) Lawal, O. J., A. E. **Ayodele** and K.S. Chukwuka (2007).Morphological Studies in *Lycopersicon esculentum* Mill. Lines in Southwestern Nigeria. *Journal of Biological Sciences* **7(5): 737-744**
- (27) Olowokudejo, J.D. and **Ayodele, A. E.** (2007). The Diversity of Leaf epidermal features in the genus *Hyptis* Jacq. (Labiatae) in West Africa. *Bio-Science Research Bulletin*. **23(2): 141-158**
- (28) Ugbabe, G. E., **Ayodele, A. E.** , Okogun, J. I. and Inyang, U. S.(2007). The pollen morphology of Nigerian Bignoniaceae Juss. *Journal of Phytomedicine and Therapeutics* 12: 31-38
- (29) Pitan, O. O. R., Fajinmi, A. A., Akinyemi, S.O.S. and **Ayodele, A. E.** (2007). Status of the

Spiralling Whitefly, *Aleurodiscus dispersus* Russell (Homoptera:Aleyrodidae)infestation in Nigeria. Nigerian Journal of Plant Protection 24: 35-45

- (30) Lameed, G.A. and **Ayodele, A. E.** (2008). Environmental Impact Assessment of Cement factory production on Biodiversity: A case study of UNICEM, Calabar Nigeria. World Journal of Biological Research 001: 1-7
- (31) Ugbabe, G. E. and **Ayodele, A. E.** (2008). Foliar epidermal studies in the family Bignoniaceae Juss. in Nigeria. African Journal of Agricultural Research 3(2): 154-166.
- (32) **Ayodele, A. E.** and Zhou Z. K. (2008). Scanning Electron Microscopy of leaves in the West African Polygonaceae. Nigerian Journal of Botany 21(2): 252-265
- (33) Ibrahim, J. A., **Ayodele, A. E.**, Okhale, S. E., Jegede, I.A. and Kunle, O.F. (2009). The taxonomic significance of the micro-morphology and phytochemistry of *Agelanthus dodoneifolius* (DC.)Poll. & Wiens in relation to its hosts. Nigerian Journal of Botany 22(1): 89-101
- (34) Adedapo, A. A., **Ayodele, A. E.** ,Ogunshe, A. A. O., Oyeyemi, M.O., Idowu, S. O., Ola –Davies, O.E. and Ademola, I. O. (2009). Haematinic potencies of the aqueous crude extracts of *Ficus mucoso* and *Senna occidentalis* in rabbits. African Journal of Biomedical Research 12: 47-54
- (35) Kadiri, A. B., Adekunle, A. A. and **Ayodele, A. E.** (2010). An appraisal of the contributions of Herbalism to primary health care delivery in south west Nigeria. Ethnobotanical leaflets 14: 435-444
- (36) Fasola, T. R., **Ayodele, A.E.**, Odetola A. A. and Umotok, N. E. (2010). Foliar epidermal morphology and anti-diabetic property of *Andrographis paniculata*(Burm.f.)Wall ex Nees. Ethnobotanical leaflets 14: 648-653
- (37) **Ayodele, A. E.** and Zhou Z. K. (2010). Scanning electron microscopy of fruits in the West African Polygonaceae. Journal of Systematics and Evolution. 48(5): 336-343
- (38) Wahab, O. M., **Ayodele, A. E.** and Moody, J. O. (2010). TLC phytochemical screening in some Nigerian Loranthaceae. Journal of Pharmacognosy and Phytotherapy 2(5): 64 -70
- (39) Efuntoye, M.O., **Ayodele, A. E.**, Thomas B. T. and Ajayi, T. O.(2010). Does host plant affect the antibacterial activity of *Tapinanthus bangwensis* (Engl. & K. Krause)Danser (Loranthaceae)? Journal of Medicinal plants research 4: (13): 1281-1284
- (40) Kadiri, A. B. and **Ayodele, A. E.** (2010). Anatomical characteristics of some commercial timbers from Nigeria. 1. Structures of wood elements. Nigerian Journal of Botany, 23(1): 143-150
- (41) Ugbabe, G. E. , **Ayodele, A. E.** , Ajoku, G. A. , Kunle, O. F. Kolo, I. and Okogun, J. I. (2010). Preliminary phytochemical and antimicrobial analysis of the leaves of Nigerian Bignoniaceae Juss. Global Journal of Agricultural and Biological Science 1: 1-5
- (42) Lameed, G. A. and **A.E. Ayodele** (2010). Effect of quarrying activity on biodiversity: Case study of Ogbere site, Ogun State, Nigeria. African Journal of Environmental Science and

- (43) Ibrahim, Jemilat A. and **A.E. Ayodele** (2011). Taxonomic revision of the Nigerian Loranthaceae. *Nigerian Journal of Botany* 24(1): 153-188
- (44) Kadiri, A. B., **Ayodele, A. E.**, Olowokudejo, J. D. and Uchemefuna, D. (2011). Comparative epidermal morphology of five West African species of *Uapaca* Baill.(Phyllanthaceae *pro forma* Euphorbiaceae). *Nigerian Journal of Botany* 24(2): 257-265.
- (45) Borokini, T.I., Lawyer, E. F. and **A. E. Ayodele** (2011). *In vitro* propagation of *Tacca leontopetaloides*(L.)Kuntze in Nigeria. *Egyptian Journal of Biology* 13: 51-56
- (46) Oyelana, O.A., Durugbo, E. U., Olukanni, O.D., **Ayodele, E. A.**, Aikulola, Z. O. and Adewole, A.I. (2011). Antimicrobial activity of *Ficus* leaf extracts on some fungal and Bacterial pathogens of *Dioscorea rotundata* from Southwest Nigeria. *Journal of Biological Sciences* 11(5): 359-366
- (47) **Ayodele, A. E.** and Yang Yong (eds.)(2012). Diversity and distribution of Vascular plants in Nigeria. Qingdao Publishing House, China. 350pp
- (48) Borokini, T.I. and **Ayodele A.E.**(2012). Pollen morphology of *Tacca leontopetaloides*(L.) Kuntze in Nigeria. *African Journal of Plant Science* 6(1): 43-47
- (49) Thomas, B.T., Effedua, H.I., Agu, G.C., Akinduti, P.A., Ejilude, O., Efuntoye, M.O., **Ayodele, A.E.** and Oluwadun, A.(2012). Extrinsic factors influencing antibacterial activities of *Tapinanthus bangwensis* against diarrheal causing organisms. *International Journal of Microbiological Research* 3(1): 33-37
- (50) Adesoye, A. I., Obi, O. C., Fasola, T. R. and **Ayodele, A. E.** (2012). Assessment of genetic diversity in two *Allium* spp. using random amplified polymorphic DNA markers. *Journal of Medicinal Plant Research* 6(32): 4741-4747
- (51) Borokini, T. I. and **Ayodele, A. E.** (2012). Phytochemical screening of *Tacca leontopetaloides*(L.)Kuntze collected from four geographical locations in Nigeria. *International Journal of Modern Botany* 2(4): 97-102
- (52) Ibrahim, J. A. and **Ayodele, A.E.** (2013). Taxonomic significance of leaf epidermal characters of the family Loranthaceae in Nigeria. *World Applied Sciences Journal* 24: 1172-1179
- (53) Ashidi, J. S., Olaosho, E. A. and **Ayodele, A. E.** (2013). Ethnobotanical survey of plants used in the management of fertility and preliminary phytochemical evaluation of *Abelmoschus esculentus*(L.)Moench. *Journal of Pharmacognosy and Phytotherapy* 5(9): 164-169
- (54) Ugbabe, G. E. **Ayodele, A. E.**, Kalpana, S. J. and Okogun, J. I. (2013). Ultra structure of the pollen grains in the family Bignoniaceae Juss. in Nigeria. *International Journal of Medicinal Plants Research* 2(9): 254-260

- (55) Ibrahim, J. A., Egharevba, H. O., Iliya, I., Tarfa, F. and **Ayodele, A. E.** (2014). Chemical profiles as chemotaxonomic tools for Loranthaceae in Nigeria. *African Journal of Plant Science* 8(7): 343-352
- (56) Ugbabe, G. E. , Takayama, K., **Ayodele, A. E.**, Kalpana, S. J., Njoku, O. M., Iliya, I. and Okogun, J. I. (2014). Molecular phylogeny of Nigerian Bignoniaceae Juss based on the chloroplast DNA sequences of *rbcl* and *ndhf* genes. *Asian Academic Journal of Multi-Disciplinary Science*, 1(19): 2319-2801
- (57) Ugbabe, G. E., **Ayodele, A. E.**, Kalpana, S. J. and Okogun, J. I.(2014). Ultra-Structure of the Leaf Surfaces of the Family Bignoniaceae Juss. in Nigeria. *Global Journal of Botanical Science* 2(1): 37-44
- (58) Borokini, T. I., **Ayodele, A. E.** and Akinloye, A. J. (2014). Morphological and Anatomical studies on *Tacca leontopetaloides* (L.)Kuntze (Taccaceae) in Nigeria. *Research in Plant Biology* 4(5): 28-44
- (59) Shokefun, E. O., Orijemie, E. A. and **Ayodele, A. E.** (2014). Foliar epidermal and pollen characters of some species in the genus *Microcos* Linn. in Nigeria. *American Journal of Plant Sciences* 5: 3904-3913
- (60) Shokefun, E. O., Orijemie, E. A. and **Ayodele, A. E.** (2014). Distribution and pollen morphology of some species of *Grewia* Linn. in Nigeria. *Nigerian Journal of Botany* 27(2): 251-263
- (61) Soyewo, L. T., **Ayodele, A. E.** and Adeniji, K. S. (2015). Leaf epidermal and pollen morphological studies of genus *Jatropha* L. (Euphorbiaceae) in Nigeria. *International Journal of Scientific and technology research* 4(8): 17-23
- (62) Ibrahim, J. A., Kunle, O. F. and **Ayodele, A. E.** (2015). Anatomical features of the transverse sections of the leaves of Loranthaceae in Nigeria. *International Journal of Pharmacognosy and Phytochemical research* 7(3): 489-501
- (63) Shokefun, E. O., **Ayodele, A. E.** and Akinloye, A. J. (2016). Systematic importance of leaf anatomical characters in some species of *Microcos* Linn. section *Eumicrocos* Burret. in Nigeria. *American Journal of Plant Sciences* (7): 108-117
- (64) Chukwuma, E. C., **Ayodele, A. E.**, Soladoye, M. O. and Chukwuma, D. M. (2016). Numerical taxonomy of **Berlina** species (Caesalpinioidae: Leguminosae) and their distribution in Nigeria. *Journal of threatened taxa* 8(2): 8443-8451
- (65). Chukwuma, D. M. and **Ayodele, A.E.** (2016). Taxonomic studies of the genus *Tephrosia* Pers. (Papilionaceae) in Nigeria. *Plant Science Today* 3(1): 9-18
- (66). Mudasiru, O. M., **Ayodele, A. E.** and Akinloye, A. J. (2016). Taxonomic implication of wood anatomical characters in some members of the genus *Terminalia* Linn.(Combretaceae) in Nigeria. *Nigerian Journal of Botany* 29(1): 23-41
- (67). **Ayodele, A. E.** (2017). *Plant Taxonomy: Organising the diversity of Nature. An Inaugural*

- (68).Shokefun, E. O., **Ayodele, A. E.** and Orijemie, E. A. (2017). A preliminary leaf epidermal and pollen morphology of some West African species of *Desplatsia* Bocq. Journal of Medicinal Plants for Economic Development 1(1): 1-7
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- (103) Okpara, O. and **Ayodele, A.** (2024). Morphological and Phytochemical Characterization of Cassinae in Nigeria. *Trends in Agricultural Sciences*. <https://doi.org/10.17311/tas.2024.274.295>
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Technical Reports

- (106) **Ayodele, A.E.** (Faniran, A. ed.) (2009). Baseline Ecological survey of McCarthy University, Ibore Irrua, Edo State, 44-58 (Consultant) Vegetation and Land use
- (107) **Ayodele, A. E.** (Faniran, A. ed.) (2009). Baseline Ecological survey of Kambridge University, Igbeji, Oyo State, 43-55 (Consultant) Vegetation and land use
- (108) **Ayodele, A. E.** (Fagade, S. O. ed.) (2010). Environmental Impact Assessment of the Umuechem Field Associated Gas Solution Project, Shell Petroleum Development Company. Port Harcourt. (Consultant, Vegetation)
- (109) **Ayodele, A. E.** (Fagade, S. O. ed.) (2010). Environmental Impact Assessment of the proposed Pan Ocean Oil Corporation's NGL and Crude line from Ovade and Ogharefe to Escravos, Consultant, Vegetation

XIII CONFERENCES AND WORKSHOPS ATTENDED

Workshop on the Rainforest of South Eastern Nigeria and South Western Cameroon, Cross River National Park, Okwangwo Division, Nigeria, 20-24 October, 1996 (Paper Presented: Ethnobotany, Conservation and Sustainable development (Participant)

Biennial Conference of the Ecological Society of Nigeria (ECOSON), University of Agriculture, Abeokuta, Ogun State, Nigeria. 1997 (Participant)

Annual Conference of the Botanical Society of Nigeria (BOSON), University of Agriculture Abeokuta, Ogun State, Nigeria, 10th – 13th March, 2002 (Participant)

Nigerian Universities Research & Development Fair, organized by the National Universities

Commission, (NUC), Abuja 6-8 December, 2005

International Symposium on Biodiversity and Biogeography in East Asia (July 14-15 2006 Kunming, Yunnan Province China. Sponsored by the People's Government of Yunnan Province and Chinese Academy of Sciences and Centre for Biodiversity and Indigenous Knowledge, China (Participant)

TWAS-ROESEAP symposium on Industrial Biotechnology, Vision Plaza, Beijing, China, August 26-30, 2011(Participant)

Annual Conference of the Botanical Society of Nigeria (BOSON), Obafemi Awolowo University, Ile Ife, 3-7 June, 2012 (Participant)

Training Workshop on current trends in repair, maintenance and Management of Laboratory equipment organized by the Equipment and Maintenance Centre, University of Ibadan, Ibadan, Nigeria 21-25, October, 2013 (As Resource person)

National Symposium on Sustaining Agricultural Development: Whither Nigeria, Oyo State, College of Agriculture, Igboora, 10- 14 November, 2014 (Participant)

Annual Conference of the Botanical Society of Nigeria (BOSON), University of Lagos, Akoka, Lagos, 16-20 August, 2015 (Participant)

Annual Conference of the Botanical Society of Nigeria (BOSON), University of Ibadan, Ibadan, Oyo State, 14-18 August, 2016 (As LOC Chairman)

54th Annual Conference and 60th Anniversary of the Science Association of Nigeria (SAN), Faculty of Science, University of Ibadan, Ibadan, Nigeria, 20-24 June, 2021 (As LOC Chairman)

Building Technical expertise in DNA Barcoding Techniques for identification of Agricultural Pests and invasive Alien plant species in Nigeria: A global taxonomic training (GTI) workshop organized by the Institute for Pharmaceutical Research and Development (NIPRD), Abuja 3-9 September, 2018 (As Resource person on Collection and Preservation of Plant specimens)

UI-CART-SCTECH capacity building workshop for early career and postgraduate researchers in Science and Technology, University of Ibadan, Ibadan, Nigeria, 14-16 May, 2019 (As Resource person on Research design and Implementation)

UNIVERSITY OF IBADAN POSTGRADUATE COLLEGE-CARTA Capacity strengthening for Doctoral Research Supervision: Supervisors' Workshop, University of Ibadan, Ibadan, Nigeria, 22-24 July, 2024

CODAPNU CONFERENCE AND ANNUAL GENERAL MEETING: re-defining Nigeria University Education in the 21st Century: Challenges, Opportunities and prospects, 12-15 January, 2025, Conference Centre, National Open University of Nigeria (NOUN), University Village, Jabi, Abuja