

OBAFEMI AWOLOWO UNIVERSITY, ILE-IFE, NIGERIA

CURRICULUM VITAE

A. PERSONAL DATA

1. **Full Name:** BOLAJI Abolade Oluremi (Nee Adekunle)
2. **Date and Place of Birth:** 17th October, 1978; Lagos
3. **Contact Details:**
 - (a) **Residential Address:** No. 9, Adewoyin Coker I, Ife-Ibadan Road, Ile-Ife, Osun State
 - (b) **E-mail Address (es):** abolaji@oauife.edu.ng
aboladebolaji2017@gmail.com
 - (c) **Mobile Telephone Number(s):** +2348031976435
4. **Nationality:** Nigerian
5. **State of Origin:** Osun
6. **Senatorial District:** Osun East
7. **Local Government Area:** Ife-East
8. **Permanent Home Address:** No. 9, Adewoyin Coker I, Ife-Ibadan Road, Ile-Ife, Osun State
9. **Marital Status:** Married
10. **Number of Children and their Ages:** Two; 12 years, 10 years
11. **Next of Kin:** Mr. BOLAJI Adewale
12. **Contact Details of Next of Kin:**
 - (a) **Residential Address:** No. 9, Adewoyin Coker I, Ife-Ibadan Road, Ile-Ife, Osun State
 - (b) **E-mail Address (es):** adewalebolaji05@yahoo.com
 - (c) **Mobile Telephone Number(s):** +2348036549161
13. **Date of Assumption of Duty:** 10th August, 2007
14. **Rank/Status on First Appointment:** Graduate Assistant
15. **Present Status:** Senior Lecturer
16. **Date of Last Promotion/Regrading:** 1st October, 2020
17. **Present Salary Grade Level and Step:** CONUASS 05 Step 04
18. **Date of Confirmation of Appointment:** 9th August, 2017
19. **Faculty/Directorate:** Science
20. **Department/Unit:** Botany

B. EDUCATIONAL BACKGROUND

1. Higher Educational Institutions Attended with Dates:

- (i) Obafemi Awolowo University, Ile-Ife 1999 - 2004
- (ii) Obafemi Awolowo University, Ile-Ife 2007 - 2011
- (iii) Obafemi Awolowo University, Ile-Ife 2012 - 2016

2. Academic/ Professional Qualifications and Distinctions Obtained with Dates:

- (i) Bachelor of Science Degree in Botany (B.Sc. Botany) 2004
- (ii) Master of Science Degree in Botany (M.Sc. Botany) 2011
- (iii) Doctor of Philosophy Degree in Botany (Ph.D. Botany) 2016

3. Other Distinctions and Awards with Dates:

(a) **Scholarships:** Nil

(b) **Fellowships:** One

- (i) Nuffic Fellowship Programme (NFP) Fellowship, sponsored by the Dutch Ministry of Foreign Affairs, The Netherlands, 2017.

(c) **Research Grants:** Three

- (i) International Centre for Genetic Engineering and Biotechnology (ICGEB) workshop grant 2018
- (ii) International Network of Research and Innovation Management Societies (INORMS) 2023 grant
- (iii) Obafemi Awolowo University Learned Conferences Fund (R/DAA/SD/A-59/21)

(d) **National Awards:** One

- (i) National Youth Service Corps (NYSC) Certificate of Commendation 2005

(e) **International Awards:** Nil

C. WORK EXPERIENCE WITH DATES:

1. Previous Work Experience outside the University System:

- (i) Supervisor and Botanical Data Analyst (NYSC) 2004 - 2005
Cross River State Forestry Commission, Calabar
- (ii) Chemistry/Integrated Science Teacher 2005 - 2007
Comprehensive Secondary School, Lagos
- (iii) AIICO Insurance PLC, Oba-Akran, Ikeja, Lagos 2006 - 2007

2. Previous Work Experience in Other Universities: Nil

3. Work Experience in Obafemi Awolowo University:

- | | |
|--|----------------|
| (i) Graduate Assistant Department of Botany | 2007 - 2011 |
| (ii) Assistant Lecturer Department of Botany | 2011 - 2015 |
| (iii) Lecturer II Department of Botany | 2015 - 2016 |
| (iv) Lecturer I Department of Botany | 2016 - 2020 |
| (v) Senior Lecturer Department of Botany | 2020 till date |

4. Courses Taught Within the Current Academic Session:

- BOT 101: Introductory Botany I (Co-taught)
BOT 102: Introductory Botany II (Co-taught)
BOT 103: Experimental Botany I (Co-taught)
BOT 104: Experimental Botany II (Co-taught)
BOT 203: Introductory Genetics (Co-taught)
BOT 205: Biological Techniques (Co-taught)
BOT 306: Evolutionary Processes (Co-taught)
BOT 413: Introductory Cytogenetics (Co-taught)
BOT 619: Advanced Cytogenetics (Co-taught)
BOT 622: Evolutionary Mechanisms (Co-taught)

5. Graduate Student Supervision:

(a) By Research:

- (i) Adeniran I.O. (SCP17/18/R/0034). Morphometric, cytogenetic and hybridization studies of *Basella alba* Linn. and *Basella rubra* Linn. in Southwestern Nigeria (M.Sc. Completed).
(ii) Fagade Olarewaju Taiwo (SCP21/22/H/0605). Assessment of genetic variability among some accessions of winged bean (*Psophocarpus tetragonolobus* L.) using phenotypic and molecular markers (M.Sc. On-going)

(b) By Long Essay: Nil

6. Undergraduate Students Supervision: Forty-five (45)

D. MEMBERSHIP OF PROFESSIONAL BODIES WITH DATES:

- (i) Member, The Forum for Agricultural Research in Africa (FARA)
(ii) Member, West African Research and Innovation Management Association (WARIMA)
(iii) Member, Organization for Women in Science for the Developing World (OWSD)
(iv) Member, Botanical Society of Nigeria (BOSON)
(v) Member, Genetic Society of Nigeria (GSN)

E. PUBLICATIONS:

1. Theses/Dissertations:

- (i) **Adekunle A. O.** (2004). Intrapopulation Variation in *Capsicum chinense*. B.Sc. (Hons) Thesis, Department of Botany, Obafemi Awolowo University, Ile-Ife, Nigeria
- (ii) **Adekunle, A. O.** (2011). Morphometric, Cytogenetic and Population Studies of an *Oryza sativa*-*Oryza glaberrima*-*Oryza longistaminata* Hybrid Swarm Located in Jebba, Nigeria. M.Sc. Thesis, Department of Botany, Obafemi Awolowo University, Ile-Ife, Nigeria.
- (iii) **Bolaji A.O.** (2016). Morphometric, Cytogenetic and Molecular Studies of Selected Species of Mosses from Ile-Ife, Nigeria. Ph.D. Thesis, Obafemi Awolowo University, Ile-Ife, Nigeria.

2. Books and Monographs: Nil

3. Contribution to Books: Nil

4. Published Journal Articles:

- (i) **Bolaji, A.O.**, Nwokeocha, C.C. and Faluyi, J.O. (2012). The occurrence of a hybrid swarm involving *O. longistaminata* A. Chev. et Roehr., *Oryza glaberrima* Steud. and *Oryza sativa* Linn. in Jebba, Nigeria. *Ife Journal of Science*, 14(1): 37-44 (**Nigeria**).
- (ii) **Bolaji, A.O.** and Nwokeocha, C.C. (2013). Issues concerning reproductive isolation in a rice hybrid swarm involving *Oryza sativa* Linn., *O. longistaminata* A. Chev. Et Roehr. and *Oryza glaberrima* Steud. located in Jebba Nigeria. *International Journal of Biological and Chemical Science*, 7(5): 2040-2049 (**Cameroon**).
- (iii) Nwokeocha, C.C., **Bolaji, A.O.**, Oloyede, F.A., Aladejana, F.O. and Faluyi, J.O. (2014). Genetic markers in the species of rice (*Oryza* L.) indigenous to Nigeria. *Ife Journal of Science*, 16(1): 121-131 (**Nigeria**).
- (iv) **Bolaji, A.O.**, Olojede, C.B, Famurewa, A.A. and Faluyi, J.O. (2014). Morphological and cytological studies of *Euphorbia hyssopifolia* L. and *Euphorbia heterophylla* L. from Ile-Ife, Nigeria. *Nigerian Journal of Genetics*, 28: 15-18 (**Nigeria**).
- (v) **Bolaji, A.O.** and Faluyi, J.O. (2017). Morphological, anatomical and cytological studies of some moss species from Nigeria. *Notulae Scientia Biologicae*, 9(3): 404-413 (**Romania**).

- (vi) Egunyomi, A., Oyesiku, O.O. and **Bolaji, A.O.** (2018). Are the fruiting and non-fruiting acrocarpous moss *Barbula indica* (Hooker) Sprengel in Nigeria distinct species? *IOSR Journal of Pharmacy and Biological Sciences*, 13(1): 1-5 (**United States of America**).
- (vii) **Bolaji, A.O.**, Isa, M.O. and Faluyi, J.O. (2018). Assessment of genetic diversity in accessions of some Ile-Ife moss species through cluster and principal component analysis. *Nigerian Journal of Botany*, 31(2): 309-322 (**Nigeria**).
- (viii) **Bolaji, A.O.**, Adeniran, O.I., Awotunde, A. and Akinpelu, B.A. (2019). Evaluation of chemical composition, anti-inflammatory, antioxidant and cytotoxic potential of leaf and root extracts of *Euphorbia graminea*. *Tropical Journal of Natural Product Research*, 3(6): 201-209 (**Nigeria**).
- (ix) Oladejo, A.S., **Bolaji, A.O.**, Obisesan, I.O. and Omitogun, O.G. (2019) SDS-PAGE characterization of some elite cowpea (*Vigna unguiculata* L. Walp) varieties. *Nigerian Journal of Biotechnology*, 36(2): 45-51 (**Nigeria**).
- (x) **Bolaji, A.O.**, Idowu-Aiye, M. and Moronfade, H.O. (2020). Reproductive biology of four weedy *Euphorbia* species from Ile-Ife, Nigeria. *Ife Journal of Science*, 22(1): 1-8 (**Nigeria**).
- (xi) **Bolaji, A.O.** (2020). Molecular diversity analysis of some Ile-Ife moss species expressed by Random Amplified Polymorphic DNA. *International Journal of Scientific and Research Publication*, 10(2): 298-305 (**India**).
- (xii) **Bolaji, A.O.**, Oladejo, A.S. and Ebeagu, S. (2020). Diversity studies in *Vigna* species and their implications in further breeding. *Journal of Experimental Agriculture International*, 42(4): 136-144 (**India**).
- *(xiii) Oladejo, A.S., **Bolaji, A.O.** and Olawuyi, O.A. (2020). Inheritance pattern of seed coat texture in cowpea (*Vigna unguiculata* (L.) Walp. *Ife Journal of Agriculture*, 32(2): 46-51 (**Nigeria**).
- *(xiv) Morakinyo, A.E., Akinpelu, B.A., **Bolaji, A.O.**, Adelowo, J.M., Babarinde, S.O., Orimolade, O.O., Oladimeji, O.D., Adewola, O.O. and Oyedapo, O.O. (2020). Wound healing activities of latex of grassleaf spurge (*Euphorbia graminea* Jacq.). *American Journal of Biomedical Research*, 8(3): 63-71 (**United States of America**).
- *(xv) Oladejo, A.S., **Bolaji, A.O.**, Okuniyi, E.O. and Gidado, R.M. (2021). Segregation of genes controlling seed coat colour in cowpea (*Vigna unguiculata* [L] Walp). *Genetics and Biodiversity Journal*, 198-206 (**Algeria**).

***Papers published after last promotion**

- *(xvi) Teniola, K.A., **Bolaji, A.O.**, Ojo, R.A. and Folorunso, A.E. (2021). Crude protein electrophoresis of three varieties of *Impatiens balsamina* L. (Balsalminaceae) in Obafemi Awolowo University, Ile-Ife, Osun State, Nigeria. *International Journal of Scientific and Research Publication*, 11(6): 586-591 (**India**).
- *(xvii) **Bolaji, A. O.**, Oladejo, A. S., Elegbeleye, O. T., Ilori, A. C. and Dauda, N. F. (2022). Molecular Characterization of *Basella alba* L. and *Basella rubra* L. using Random Amplified Polymorphic DNA Profiling. *Nigerian Journal of Biotechnology Special Edition BSN-SW*, 1: 51-57 (**Nigeria**).
- *(xviii) **Bolaji, A.O.**, Oladejo, A.S., Adeniran, O.I. (2022). Reproductive biology of green-stemmed and red-stemmed *Basella alba*. *Botanica*, 28(1): 75–80 (**Poland**).
- *(xix) **Bolaji, A.O.**, Oladejo, A.S., Adeniran, I.O. (2022). Segregation of genes controlling stem pigmentation in *Basella alba*. *Nigerian Journal of Genetics*, 36(2): 256-262. (**Nigeria**).
- *(xx) **Bolaji, A.O.**, Oladejo, A.S., and Adeniran, O.I. 2023. Morphological characterization and cytological studies of the green-stemmed and the red-stemmed *Basella alba*. *Notulae Scientia Biologicae* 15(2): 11338 (**Romania**).

5. **Edited Conference Proceedings:** Nil

6. **Articles Accepted for Publication:** Nil

7. **Manuscripts Submitted for Publication:**

- (i) Evaluation of F₁ hybrids of the green-stemmed and the red-stemmed *Basella alba*

8. **Creative Works/Patents:** Nil

9. **Technical Reports:** Nil

10. **Papers and Works in Progress:**

- (i) Diversity studies of some accessions of *Basella alba* L. and *Basella rubra* L.
- (ii) Diversity studies of some accessions of elite tomato varieties
- (iii) Evaluation of the diversity in the proximate composition of some elite tomato varieties

F. **PROFESSIONAL ACCOMPLISHMENTS:**

Identification of some genetic markers in *Oryza* species indigenous to Nigeria, as well as the reproductive isolating mechanisms involved in their speciation. Establishment of the chromosome numbers of *Euphorbia hyssopifolia* and a tetraploid species of *Euphorbia heterophylla* from Nigeria.

***Papers published after last promotion**

Assessment of genetic diversity and establishment of the chromosome numbers of moss species from Nigeria for the first time. The moss species include: *Hyophila crenulata* C, Mull. Ex Dus, *Bryum coronatum* Schwaegr, *Thuidium gratum* (P. Beauv) Jaeg., *Barbula lambarenensis* P. Vard. and *Stereophyllum nitense* Mitt. Identification of the bioactive as well as nutritional components of *Euphorbia gramineae*. Identification of genetic markers in some elite Cowpea accessions which could be explored for breeding programme in cowpea. Recognition and selection through highly competitive assessment into scholarly programmes like Nuffic Fellowship Programme (NFP), International Centre for Genetic Engineering and Biotechnology (ICGEB) Fellowship programme and the International Network of Research and Innovation Management Societies (INORMS) congress.

G. CONFERENCES, SEMINARS AND WORKSHOPS ATTENDED WITH DATES:

- (i) Biotechnology Workshop: PCR and Applications, Obafemi Awolowo University, Ile- Ife, Nigeria. 11th - 12th June, 2008.
- (ii) Gender Sensitization and Motivational Workshop for Female Staff and Students, Obafemi Awolowo University, Ile-Ife, Nigeria. 21st - 25th November, 2011.
- (iii) 21st Annual Conference of the Botanical Society of Nigeria (BOSON). 3rd - 7th June, 2012
- (iv) International Conference of the Faculty of Science, Obafemi Awolowo University, Ile-Ife, Nigeria. 8th - 9th October, 2014.

Paper Presented: Germination Studies and Reproductive Biology of *Euphorbia heterophylla* L. and *E. hirta* L from Ile-Ife, Nigeria.

- (v) Introductory Molecular Techniques Workshop, International Institute for Tropical Agriculture (IITA), Nigeria. 4th - 8th May, 2015.
- (vi) Boson Pre-Conference Workshop on DNA Barcoding Techniques, Faculty of Science, University of Lagos, Akoka Lagos, Nigeria. 13th - 16th August, 2015.
- (vii) Right-based Approach to Food Security and Nutrition, Wageningen University and Research, The Netherlands. 23rd January - 3rd February, 2017.

Paper Presented: Plant Genetics and Global Food Security

- (viii) Organization for Women in Science for the Developing World (OWSD), Ife Chapter.
Paper Presented: The Role of women in Achieving Sustainable Food Security and Nutrition. 14th June, 2017.
- (ix) Application of molecular techniques in the study of bacteria associated with crops, organized by the Biotechnology Centre, Federal University of Agriculture, Abeokuta, Nigeria. 4th – 7th June, 2018.
- (x) International Conference of the Faculty of Science, Obafemi Awolowo University, Ile-Ife, Nigeria. 1st - 5th October, 2018.

Paper Presented: Diversity studies in *Vigna* species and their implications in further breeding.

- (xi) Workshop on Research Methods and Writing of Fundable Proposals, organized by Organization for Women in Science for the Developing World (OWSD), African Centre of Excellence, Obafemi Awolowo University, Ile-Ife, Nigeria. 20th - 22nd August, 2019.
- (xii) First International Conference of the Biotechnology Society of Nigeria Southwest Zone, organized by the Biotechnology Society of Nigeria at the Forest Research Institute of Nigeria (FRIN).

Paper Presented: Molecular studies of *Basella alba* L. and *Basella rubra* L. in Southwestern Nigeria. 11th - 13th December, 2019.

- (xiii) Mentoring Orientation workshop 2019/2020 Programme, organized by the Central office of Research (COR), Obafemi Awolowo University, Ile-Ife, Nigeria. 21st - 22nd January, 2020.
- (xiv) Workshop on intellectual property rights, scientific research and the use of the SAMAWATI electronic research notebook organized by Ife biotechnology group (IBG), Intellectual Property and Technology Transfer Office (IPTTO) and African Agricultural Technology Foundation (AATF). 12th October, 2021
- (xv) 1st Corteva Plant Science Symposium West African with the theme ‘enhancing food and nutrition in Africa: the role of classic and new technologies’.

Paper presented: Botanical and cytogenetic studies of *Basella alba* L. and *Basella rubra* L. 20th October 2021 (online).

- (xvi) Workshop on research writing in the sciences 2022 organized by INASP, AuthorAid, United Kingdom. 5th April - 16th May 2022 (Online).
- (xvii) Workshop on basics of grant proposal writing organized by INASP, AuthorAid, United Kingdom. 12th May - 9th June 2022 (online).
- (xviii) International Network of Research and Management Societies (INORMS) 2023 Congress with the theme ‘Towards a Utopia in Science and Innovation Management’. Southern Sun Elangeni Hotel, Durban, KwaZulu-Natal, South Africa. 30th May 2023 - 2nd June 2023.

Paper presented: Knowledge advancement through collaborative research: An essential tool for research and innovation management.

H. CURRENT RESEARCH ACTIVITIES:

- (i) Hybridization studies of *Basella alba* L. and *Basella rubra* L. from Southwestern Nigeria.

(ii) Meiotic studies of F₁ hybrids of *Basella alba* and *Basella rubra* from Southwestern Nigeria

(iii) Genetic variability studies of winged bean (*Psophocarpus tetragonolobus* L.)

I. OTHER RELEVANT INFORMATION:

1. Services within the Department:

- | | | |
|--------|--|----------------|
| (i) | Result Administrator | 2007 - 2022 |
| (ii) | Undergraduate Staff Adviser | 2011 till date |
| (iii) | Course coordinator for BOT 205 | 2015 till date |
| (iv) | Member, Departmental Review Panel | 2007 till date |
| (v) | Member, Departmental Board of Examiners | 2007 till date |
| (vi) | Member, Physical Facility Committee | 2009 |
| (vii) | Secretary, Departmental Board of Examiners | 2017 till date |
| (viii) | Secretary, Departmental Review Panel | 2017 till date |
| (ix) | Secretary, Senior Staff Meetings, Department of Botany | 2017 till date |
| (x) | Member, Accreditation Committee on library | 2019 |

2. Services within the Faculty:

- | | | |
|-------|--|----------------|
| (i) | Member, Faculty Board of Science | 2012 till date |
| (ii) | Member, Faculty Board of Examiners | 2012 till date |
| (iii) | Secretary, Faculty Lecture and Award Committee | 2018 till date |
| (iv) | Member, Faculty Conference Committee | 2020 till date |

3. Services within the University:

- | | | |
|-------|---|----------------|
| (i) | Supervisor, Post-UTME | 2010/2011 |
| (ii) | Supervisor, Post-UTME | 2011/2012 |
| (iii) | Member, Ife Biotechnology Group | 2016 till date |
| (iv) | Coordinator, OWSD OAU Chapter School Outreach | 2021 |
| (v) | Deputy Director, Central Science Laboratory | 2023 |

4. Services outside the University:

- | | | |
|-------|--|----------------|
| (i) | Coordinator (registration section), BOSON Conference | 2012 |
| (ii) | Member, Southwest Agro-ecological Biosafety Awareness Workshop Committee | 2018 till date |
| (iii) | Teenagers Director, Ogo-Oluwa Baptist Association, Ile-Ife | 2020 till date |
| (iv) | Reviewer, Nordic Journal of Botany | 2018 till date |

(v) Reviewer, Tropical Journal of Natural Product Research 2019 till date

J. CONTRIBUTION TO KNOWLEDGE:

My contribution to knowledge has been in the area of plant genetics and cytogenetics, using morphometrics, diversity studies, chromosome studies, molecular studies and genetic studies to investigate genetic resources in different plants.

My work on rice (Papers 1, 2 and 3) has been helpful in the identification of some genetic markers in *Oryza* species indigenous to Nigeria. These could be used in tracing gene introgression in rice hybrid swarms. My investigation of some rice hybrids located in Jebba, Nigeria (paper 2) also revealed the processes involved in the reproductive isolation among the rice species in the hybrid swarm.

My work on the mitotic chromosomes of some *Euphorbia* species (paper 4) helped in determining the chromosome number of *Euphorbia hysopifolia* for the first time and also those of *Euphorbia heterophylla* from Nigeria. It also provided useful information on their bioactivity and genotoxic status (Papers 8, 14) as well as their reproductive biology (paper 10).

My work on the morphology, morphometrics, molecular and cytogenetic study of some moss plants in Nigeria (papers 5, 6, 7, 11) helped to establish the chromosome numbers of *Hyophila crenulata* C. Mull. Ex Dus, *Thuidium gratum* (P. Beauv) Jaeg., *Barbula lambarenensis* P. Vard., *Stereophyllum nitense* Mitt. and *Bryum coronatum* Schwaegr from Nigeria for the first time and also provided information on the genetic diversity within the taxa. My research on *Vigna* species provided useful information on the genetic diversity within this species and their implication for breeders, as well as the pattern of inheritances of their coat colour, coat texture and seed size (Papers 9, 12, 13 and 15). My research on *Impatiens balsamina* L. provided insights on their genetic markers (Paper 16).

My research on *Basella alba* provided insights on their genetic diversity, reproductive biology, pattern of inheritance of their stem pigmentation and their chromosome numbers (Papers 17, 18, 19 and 20)

Signature:

Date: