

OBAFEMI AWOLowo UNIVERSITY, ILE-IFE, NIGERIA

CURRICULUM VITAE

A. PERSONAL DATA

1. **Full Name:** AWOSANMI Femi Emmanuel
2. **Date & Place of Birth:** 7th August, 1979, Ile-Ife
3. **Contact Details:**
 - (a) **Residential Address:** 10, Chief Jide Fajinmi Street, Igboya, Ile-Ife, Osun State.
 - (b) **E-mail address(es):** femiawosanmi@oauife.edu.ng
cedarfem@gmail.com
 - (c) **Mobile Phone Number(s):** 08030851956, 08053381885.
4. **Nationality:** Nigerian
5. **State of Origin:** Osun
6. **Senatorial District:** Osun East
7. **Local Government Area:** Ife East
8. **Permanent Home Address:** 39 Ijio Street, Ile-Ife, Osun State.
9. **Marital Status:** Married
10. **Number of Children and their Ages:** Nil
11. **Next of Kin:** Mrs. Grace Oluwakemi Awosanmi
12. **Contact Details of Next of Kin:**
 - (a) **Residential Address:** 10, Chief Jide Fajinmi Street, Igboya Ile-Ife, Osun State
 - (b) **E-mail Address:** cedargrace3@gmail.com
 - (c) **Mobile Phone Number(s):** 08067464656, 08094849044
13. **Date of Assumption of Duty:** 18th January 2011
14. **Rank/Status on First Appointment:** Assistant Lecturer
15. **Present Status:** Senior Lecturer
16. **Date of Last Promotion:** 1st October, 2021
17. **Present Salary, Grade Level and Step:** CONUASS 05 Step 02
18. **Date of Confirmation of Appointment:** 5th July 2018
19. **Faculty:** Agriculture
20. **Department:** Crop Production and Protection

B. EDUCATIONAL BACKGROUND

1. **Higher Educational Institutions Attended with Dates:**
 - a. Ladoke Akintola University of Technology, Ogbomoso 1996 – 2002
 - b. Obafemi Awolowo University, Ile – Ife 2006 – 2010
 - c. Obafemi Awolowo University, Ile – Ife 2011 – 2016
2. **Academic/ Professional Qualifications and Distinctions Obtained with Dates:**
 - a. B.Tech. (Agronomy), Second Class Upper Division (Ogbomoso) 2002
 - b. M.Phil. (Seed Science) (Ife) 2010
 - c. Ph.D. (Seed Science & Technology) (Ife) 2016

3. Other Distinctions and Awards with Dates:

- a. **Scholarship:** IDB/GTBANK Postgraduate Scholarship for Ife Indigenes 2009
- b. **Fellowship:** Nil
- c. **Research Grant:**
Co-Investigator, ₦2,000,000 TETFUND (Tertiary Education Trust Fund) Institution-Based Research Grant for the research: *Optimization of seed germination protocol for cultivation and conservation of Solanecio biafrae (Oliv. & Hiern) C. Jeffrey [Woorowo] Germplasm.* 2015
- d. **National Awards:** Nil
- e. **International Awards:** Nil

C. WORK EXPERIENCE WITH DATES

1. Previous Work Experience Outside the University System with Dates:

- a. Farm Officer, NYSC Farm, Afon, Kwara State 2002 – 2003
- b. Teacher, Royal Crystal College, Ilode, Ile – Ife, Osun State 2003 – 2005
- c. Agricultural Extension Officer, Ife East Local Government 2006 – 2010

2. Previous Work Experience in other Universities: Nil

3. Work Experience in Obafemi Awolowo University:

- a. Assistant Lecturer 18th Jan. 2011 – 15th Nov.2016
- b. Lecturer I 16th Nov. 2016 – 30th Sept. 2021
- c. Senior Lecturer 1st Oct. 2021 – date

4. Courses Co-Taught Within the Current Academic Session:

- | | | | |
|----|---------|--|----------------|
| a. | CPP 201 | Agricultural Botany | Co-taught |
| b. | CPP 305 | Crop Science 1 | Co-taught |
| c. | CPP 401 | Processing and Storage of Crop Produce | Taught in full |
| d. | CPP 407 | Field Plot Techniques | Co-taught |
| e. | CPP 508 | Seed Production and Certification | Co-taught |
| f. | CPP 513 | Research Methods in Crop Science 1 | Co-taught |
| g. | CPP602 | Seed Biology | Co-taught |
| h. | CPP603 | Seed Technology | Co-taught |
| i. | CPP607 | Seed Storage and Management | Co-taught |
| j. | CPP610 | Seed Analysis, Testing and Certification | Taught in full |

5. Graduate Student Supervision: 2

- i. **Ajao D. O.** (AGP16/17/R/0028). Seed yield and vigour characteristics of Common okra accessions (*Abelmoschus esculentus* L. Moench). M.Sc. (Seed Science and Technology), Obafemi Awolowo University; successfully defended on 25th February 2021.

- ii. **Olaoye O. O.** (AGP16/17/H/0219). Influence of indeterminacy on seed vigour of African yam bean accessions (*Sphenostylis stenocarpa* Hochst. Ex A. Rich). M.Sc. (Seed Science and Technology), Obafemi Awolowo University; successfully defended on 7th June 2021.
- iii. **Akanfe N. M.** (AGP19/20/H/0858). Seed physiological quality of Castor (*Ricinus communis*). M.Sc. (Seed Science and Technology), Obafemi Awolowo University. (Ongoing).
- iv. **Adebayo Q. S.** (AGP20/21/H/_). (Ongoing)

6. Current Undergraduate Supervision: 5

D. MEMBERSHIP OF PROFESSIONAL BODIES

- a. Association of Seed Scientists of Nigeria 2016 – date
- b. Sustainable Futures in Africa Network 2018 – date
- c. International Herbage Seed Group 2021 – date
- d. CONNECTED Network Team 2021 – date
- e. International Society for Development and Sustainability (ISDS) 2022 – date
- f. International Society for Seed Science 2023

E. PUBLICATIONS

1. Thesis/Dissertation

- Awosanmi F. E. 2010. Effect of genotype and drought on seed vigour in maize (*Zea mays* L.). Unpublished M.Phil. Thesis, 73 pp.
- Awosanmi F. E. 2016. Development of seed vigour in West African Okra (*Abelmoschus caillei* (A. Chev.) Stevels). Unpublished Ph.D. Thesis, 106 pp.

2. Books and Monographs: Nil

3. Contributions to Books: Nil

4. Published Journal Articles:

- (i) **Awosanmi, F. E.**, Ajayi, S. A. and Menkir, A. 2016. Impact of moisture stress on seed yield in tropical maize. *International Journal of Agriculture Innovations and Research* 4 (6): 1033 – 1038. ISSN: 2319 – 1473 (India)
- (ii) Akinwale, R. O., **Awosanmi, F. E.**, Ogunniyi, O. O. and Fadoju, A.O. 2017. Determinants of drought tolerance at seedling stage in early and extra-early maize hybrids. *Maydica* 62 (1): 1 – 9. ISSN: 2279 – 8013 (Italy).
- (iii) Adesanya, F. O., Fakorede, M. A. B., Ajayi, S. A., Maji, A. T., **Awosanmi, F.E.** and Olisa, F. 2018. Assessment of Germination Parameters, Accelerated Ageing and Conductivity Tests on Seeds of Upland Rice (*Oryza sativa* L.), *International Journal of Pure and Applied Bioscience* 6 (5):8-13. DOI: <http://dx.doi.org/10.18782/2320-7051.6832> (India).
- (iv) Oluwaranti A., Badmus O. T., Awoniyi S. O., Akintola A. M., Bankole O.O. and **Awosanmi F. E.** 2018. Comparative analysis of physiological seed quality and field performance of single-, three-way and double-cross hybrids of tropical maize germplasm.

- (v) Bankole O. O., Oluwaranti A. and **Awosanmi F. E.** 2019. Water use efficiency of maize genotypes of different maturity groups at seedling and grain filling growth stages in a rainforest location. *International Journal of Plant and Soil Science* 29 (5): 1 – 11. DOI: [10.9734/ijpss/2019/v29i530154](https://doi.org/10.9734/ijpss/2019/v29i530154) (UK).
- (vi) **Awosanmi, F. E.**, Ajayi, S. A. and Baffoe, E. E. 2020. Influence of seed moisture content on short term storage of cowpea (*Vigna unguiculata* L. Walp) seeds. *Agriculturae Conspectus Scientificus* 85 (1): 37 – 42. <https://hrcak.srce.hr/235769?lang=en> (Croatia).
- (vii) Bankole O., A. Oluwaranti, S. A. Ajayi and **F. E. Awosanmi.** 2020. Genotypic Variation of Different Maturity Groups of Maize (*Zea mays* L.) for Seed Physiological Quality. *Journal of Experimental Agriculture International* 42(5): 139-149. DOI: [10.9734/jeai/2020/v42i530527](https://doi.org/10.9734/jeai/2020/v42i530527) (UK).
- (viii) Oluwaranti A., **Awosanmi F. E.** and Amuda I. A. 2020. Genotypic Variation for Seed Physiological Quality and Agronomic Performance of Quality Protein Maize Genotypes. *Nigerian Journal of Seed Science* 4 (2): 53 – 65. ISSN: 2636 – 7165. (Nigeria).
- (ix) Akinwale R. O., Fadoju A. O., Sulola B. H, Oluwaranti A and **Awosanmi F. E.** 2021. Inheritance of Seed Quality Traits and Concentrations of Zinc and Iron in Maize Topcross Hybrids. *African Crop Science Journal* 29 (1): 119 – 131 DOI: [10.4314/acsj.v29i1.8](https://doi.org/10.4314/acsj.v29i1.8) (Uganda).
- (x) Nnamani C. V., **Awosanmi F. E.** and Ajayi S. A. 2021. Screening of African Yam Bean Accessions for Imbibition and Seed Physiological Quality. *Journal of Agricultural Science* 13 (5): 81 – 90. ISSN: 1916-9760 (Canada).
- (xi) **Awosanmi, F. E.**, Ogunleye, M., Awosanmi, G. O., Olisa, B. S. and Ajayi, S. A. 2021. Interactive influence of location and variety on physiological quality of cowpea seeds (*Vigna unguiculata* L. Walp). *Journal of Agriculture and Ecology Research International* 22 (4): 20 – 25. DOI: [10.9734/jaeri/2021/v22i430194](https://doi.org/10.9734/jaeri/2021/v22i430194) (UK).
- *(xii) Ilesanmi R., Abayomi O., **Awosanmi F. E.** and Ajayi S. A. 2021. Maturity Classifications Influence the Phenological Intervals of Different Maize Varieties. *Journal of Experimental Agriculture International*, 43 (11): 231-239. ISSN: 2457-0591 (UK).
- *(xiii) Olisa B. S., **Awosanmi F. E.**, Akinropo M. S., Ojo P. O., Ishiak K., Danlami A., Egbo N. J. and Okeke C. U. 2021. Differential response of commercial hybrid and open pollinated maize seeds to mechanical damage during seed processing. *Notulae Scientia Biologicae*, 13(4): 10738. DOI: 10.15835/nsb13410738 (Romania).
- *(xiv) **Awosanmi F. E.**, Ajayi S. A. and Menkir A. (2022). Impact of Moisture Deficit on Physiological Quality of Maize Seeds. *Agriculturae Conspectus Scientificus*, 87 (2), 93-101. <https://hrcak.srce.hr/279283> (Croatia).

5. Edited and Refereed Conference Proceedings:

- (xv) **Awosanmi, F. E.**, Ajayi, S. A. and Fasusi, G. M. 2014. Imbibition and germination response of extra-early maize seeds to varying temperatures. In Omokhafa K. O. and Odewale J. (Eds.) *Genetics: Public Awareness and National Transformation* –

Proceedings of the 38th Annual Conference of The Genetics Society of Nigeria, 19th – 23rd October 2014, Benin City, Edo State, Nigeria, ISBN: 0189 – 9686, 426 – 430.

- (xvi) **Awosanmi F. E.** and Ajayi S. A. 2018. Compositional and vigour changes during seed development in West African Okra [*Abelmoschus caillei* (A. Chev.) Stevels]. Proceedings of the 4th Annual Conference of the Association of Seed Scientists of Nigeria, 24th – 28th June 2018, Akure, Ondo State, Nigeria, ISBN: 978-978-955-003-6, 175 – 179.
- (xvii) Awosanmi G. O., Hosu J. V. and **Awosanmi F. E.** 2018. Influence of harvest date on the viability of snake tomato (*Trichosanthes cucumerina* L.) seeds. Proceedings of the 4th Annual Conference of the Association of Seed Scientists of Nigeria, 24th – 28th June 2018, Akure, Ondo State, Nigeria, ISBN: 978-978-955-003-6, 194 – 197.

(xvi) **Articles Accepted for Publication:**

(xvii) **Manuscripts submitted for Publication:**

- a. **Awosanmi, F. E.** and Ajayi, S. A. Seed yield and vigour of West African okra in response to season of planting. *International Journal of Vegetable Science* (USA).
- b. **Awosanmi, F. E.** and Ajayi, S. A. Seed Physiological Maturity of West African Okra [*Abelmoschus caillei* (A. Chev.) Stevels]. *International Journal of Vegetable Science* (USA).

(xviii) **Creative Work:** Nil

(xix) **Technical Reports:** Nil

(xx) **Papers and Work in Progress:**

- (i) Evaluation of Okra farmers' knowledge and access to quality seeds in Osun State, Nigeria
- (ii) Sanitary quality assessment of commercial okra (*Abelmoschus esculentus* (L.) Moench) farmers' saved seeds
- (iii) Physiological quality of winged bean seeds (*Psophocarpus tetragonolobus* (L.) Dc.).
- (iv) Influence of harvest date on the viability of snake tomato (*Trichosanthes cucumerina* L.) seeds.

F. PROFESSIONAL ACCOMPLISHMENT:

I was one of the facilitators for the training of newly recruited staff of the National Agricultural Seed Council (NASC), Abuja on Seed Testing, Analysis and Certification in 2008.

I was also part of the facilitators of the CORAF/WECARD (West and Central African Council for Agricultural Research and Development)-sponsored *Training of seed officers (from 8 WCA countries- Benin, Burkina Faso, Gambia, Ghana, Mali, Niger, Nigeria, Senegal) on the Production of High Quality Maize Seeds* in 2015.

I served as an Assistant Consultant in training youths on Local Seed Business, organized by Catholic Relief Services (CRS), Abuja in 2017.

I established the significance of irrigation in sustainable quality maize seed production, as moisture deficit does not just reduce seed yield but also has an irreversible impact on the physiological quality of the seeds produced.

I was able to establish that the average seed yield of West African okra is 4,867.56 seeds per plant (365.55g/plant) and approx. 194,702,400 seeds per hectare (14.62 tons/ha) and that physiological maturity is attained 28 days after flower opening.

G. CONFERENCES, SEMINARS AND WORKSHOPS ATTENDED WITH DATES:

1. Association of Seed Scientist's Conference on Quality Seed: A panacea for sustainable Agriculture in the 21st Century, 6th – 9th June, 2016, International Scholars' Centre, FUNAAB, Abeokuta, Ogun State.

Paper Presented: Influence of location and variety on physiological quality of cowpea seeds.

2. Training on the *Electronic Seed Platform*, WASIX, organized by West Africa Seed Program (WASP) and West Africa Agricultural Productivity Program (WAAPP), 28 – 29th July 2016, held at Denis Hotel, Wuse, Abuja.
3. Workshop on *Researcher Connect*, organized by the British Council Nigeria, 14 – 16th March 2017 at The Moorhouse, Ikoyi, Lagos.
4. Workshop on Institutional Strengthening Programme for Early Career Researchers, sponsored by CIRCLE in collaboration with the Obafemi Awolowo University Central Office of Research, 22nd and 23rd January 2018, held at the Mini Auditorium, Obafemi Awolowo University Teaching Hospital Complex, Ile-Ife.
5. Association of Seed Scientist's Conference on Enhancing Nigeria's Agricultural Potentials through Quality Seed, 24th – 28th June, 2018, The University Auditorium, Federal University of Technology, FUTA, Akure, Ondo State.

Paper Presented: Compositional and vigour changes during seed development in West African Okra [*Abelmoschus caillei* (A. Chev.) Stevels].

6. Workshop on Grantsmanship, Academic publishing and plagiarism organised by the Central Office of Research, 23rd and 24th July 2018, held at the mini Auditorium, Obafemi Awolowo University Teaching Hospital Complex, Ile-Ife, Nigeria.
7. Capacity Building workshop on Research Methodology and Grantsmanship organised by the World Bank sponsored Africa Centre of Excellence OAU-ICT Driven Knowledge Park

(OAK-PARK), 24th – 28th September, 2018, held at Centre of Excellence in Software Engineering Building, Obafemi Awolowo University, Ile-Ife, Nigeria.

8. African Society of Agronomy, Crop, Soil and Environmental Sciences Conference on Reducing the Yield Gap between Research and Farmers' Fields, 22nd – 24th March 2021, Virtual Conference.
9. DAAD Alumni Conference on Sustainable health and food systems in relation to climate change and Covid-19 pandemic, 28th – 31st March 2021, ACE – Computer Centre, Obafemi Awolowo University, Ile-Ife.
10. The 4th Annual Sustainable Futures in Africa Network Symposium titled “*Sustainable Futures: Reaching Globally to Sustain us Locally*” held digitally on the EdGE platform from 19 – 23 April 2021.
11. Guiding Seed Sector Transformation in Africa, Durable solutions to systemic problems. Online Conference, 21 – 23 June 2021.

Paper Presented: Seed vigor of tropical maize genotypes under drought.

H. CURRENT RESEARCH ACTIVITIES:

1. Water relations in emergence and establishment of West African Okra.
2. Seed vigour characteristics of Castor.
3. Effect of temperature on imbibition and germination of cereals and legume seeds.

I. OTHER RELEVANT INFORMATION

1. Services Within the Department:

- | | |
|--|-------------|
| a. Chairman, Equipment and Infrastructure Committee | 2015 – date |
| b. Member, Examination Results Co-ordination Committee | 2011 – date |
| c. Member, Postgraduate Committee | 2017 - date |
| d. Part II Staff Adviser | 2013 – 2015 |
| e. Part III Staff Adviser | 2015 – 2020 |

2. Services Within the Faculty:

- | | |
|--|-------------|
| a. Member, Faculty Board of Examiners | 2011 – date |
| b. Member, Environmental and Physical Infrastructure Committee | 2013 – date |
| c. Member, Faculty Rural Development Committee | 2015 – 2017 |
| d. Chairman, Faculty TEAAL Committee | 2020 – 2021 |
| e. Member, Faculty Rural Development Committee | 2021 – date |

3. Services Within the University:

- a. Member, Agriculture and Industrial Sub-Committee of the Town and Gown Relations Committee 2017 – date
- b. Reviewer, Ife Journal Agriculture 2017 – date

4. Services Outside the Obafemi Awolowo University:

Reviewer to these Journals:

- a. Nigerian Journal of Seed Science 2020 – date
- b. Current Journal of Applied Science and Technology, UK 2020 – date
- c. Notulae Scientia Biologicae, Romania 2021 – date
- d. Cereal Research Communication 2022 – date

J. CONTRIBUTIONS TO KNOWLEDGE

My investigation on the effect of genotype and drought on seed vigour in maize established the significance of moisture to the mother plants in the production of high quality seeds. Moisture influences both seed yield and subsequent vigour. It was revealed that in the absence of irrigation with an erratic rainfall condition, maize seed yield can be reduced by up to 81%, with 34% loss in germination potential of the seeds produced. Also, the vigour loss is about 40% when measured by accelerated ageing germination and 220% when measured by conductivity tests. In spite of this, some genotypes are capable of showing inherently higher seed vigour than others under full irrigation and drought which can be improved upon for cultivation in vulnerable areas.

West African okra requires high amount of rainfall or soil moisture for its seedling emergence, uniformity of establishment for a high vegetative growth and yield. However, for seed production, the development of the fruits should be targeted to a period of little or no rainfall to ensure that high quality seeds are produced and the cost of seed drying is reduced. The vigour of the seeds increased with an increase in the crude fat content of the seeds and non-uniformity in the emergence of the seeds was a function of the amount of water required to complete germination, and not the hardness of the seed coat as generally believed. Moisture requirement for germination is between 95 – 102% of the seeds initial weight, which is not easily achieved under field conditions.



Signature

14/01/2023

Date