

CURRICULUM VITAE

- I (a) Name: Bunmi Olasanmi
(b) Date of birth: 1 April, 1972
(c) Department: Agronomy
(d) Faculty: Agriculture
- II (a) First Academic Appointment: Lecturer II (1 March, 2013)
(b) Present Post: Senior Lecturer (1 Oct., 2019)
(c) Date of Last Promotion: 1 October, 2019

III. University Education (with dates)

University of Ibadan, Ibadan, Oyo State	1995 – 2001
University of Ibadan, Ibadan, Oyo State	2003 – 2005
University of Ibadan, Ibadan, Oyo State	2005 – 2010

IV Academic Qualifications (with dates and granting bodies)

Bachelor of Science (Agriculture) in Agronomy, University of Ibadan, Ibadan	2001
Master of Science in Agronomy, University of Ibadan, Ibadan	2005
PhD in Agriculture, University of Ibadan, Ibadan	2010

V Professional Qualifications and Diplomas (with dates)

Bioscience eastern and central Africa-International Livestock Research Institute (BecA-ILRI) Hub, Nairobi, Kenya - Certificate of Participation in training workshop on Genomic Selection, 21-22 October, 2019.

University of Ibadan Women Society, Ibadan Nigeria: Agro Impact Projects Empowerment Initiative - Certificate of Participation in the Entrepreneurial Skill Using Plantain Wastes Workshop, 24 August, 2019.

Department of Food Technology, University of Ibadan, Nigeria and Department of Food Science and Nutrition, University of Reading, Reading, The UK - Certificate of Participation in a workshop on 'Converting Cassava leaves into marketable food ingredients', 30 to 31 July, 2019.

International Centre for Genetic Engineering and Biotechnology, Trieste, Italy/Federal University of Agriculture, Abeokuta, Ogun State, Nigeria - Certificate of attendance of a course on 'Application of molecular techniques in the study of bacteria associated with crops', 4 to 7 June, 2018.

Bioscience eastern and central Africa-International Livestock Research Institute (BecA-ILRI) Hub, Nairobi, Kenya - Certificate of Participation in training workshop on 'Using markers for diversity and marker-assisted selection (MAS)', 29 to 31 May, 2018.

Africa Biosciences Challenge Fund Fellowship - Certificate of Participation in research on Marker-Assisted Selection for improvement of cassava for beta-carotene content and resistance to cassava mosaic disease, 14 September 2017 to 9 March 2018.

Department of Agronomy, University of Ibadan, Nigeria and Integrated Breeding Platform, Nigeria - Certificate of training on Breeding Management System, 14 to 18 August, 2017.

University of California: African Plant Breeding Academy/African Orphan Crops Consortium (AOCC) - Certificate of completion of the UC Davis African Plant Breeding Academy, 2013-2014

NEPAD-ABNE/Polytechnic University of Bobo-Dioulasso, B. Faso/Michigan State University, USA: Certificate of completion of an International Biosafety Short Course, November, 2013.

NRCRI-IITA: Certificate of participation in training on determination of total carotene in cassava, September, 2009.

International Institute of Tropical Agriculture (IITA), Ibadan: Certificate of participation in Quantitative genetics and related statistics course, October, 2007.

IITA, Ibadan: Certificate of Participation in a Training Course on Land and Soil Management for Commercial Cassava Cultivation training, 28 February to 3 March, 2006

IITA, Ibadan: Certificate of participation in a course on weed control in cassava fields, October, 2005.

IITA, Ibadan: Certificate of Participation in a Field Training Course on Competitive Commercial Cassava Cultivation, October, 2004.

VI Scholarship, Fellowship and Prizes (with dates) in respect of Undergraduate and Postgraduate work only

Cornell University Institute for Genomic Diversity Fellowship for African Scientist, February to June, 2007.

Kirkhouse Trust, Scotland - Scholarship for PhD. Program, October 2005 to September, 2008.

Postgraduate School, University of Ibadan Research Scholarship for Ph.D. students (unutilized), 2005 to 2008.

Federal Government 2001/2002 academic session Scholarship Award to postgraduate students.

Best graduating student of Department of Agronomy, University of Ibadan for 2000/2001 academic session.

Late Pa Akindoyin Memorial Scholarship Award for best undergraduate students of Ifewara, Osun State in 2000/2001 academic session.

Merit Book Award by Arthur Andersen to the best undergraduate students of University of Ibadan in 1998/99 academic session.

VII Honours, Distinctions and Membership of Learned Societies

Member, International Society for Tropical Root Crops - Africa Branch.

Member, International Society for Tropical Root Crops.

Member, Generation Cassava Partnership.

Member, African Plant Breeders' Association.

Member, Plant Breeders' Association of Nigeria.

VIII Details of Teaching/Work Experience

University of Agriculture, Makurdi, Lecturer II (4 July, 2012 to 28 February, 2013)

University of Ibadan, Ibadan, Lecturer II (1 March, 2013 to 30 September, 2016)

University of Ibadan, Ibadan, Lecturer I (1 October, 2016 to date)

Courses jointly taught with other Lecturers

Undergraduate courses

Course Code	Course Title/Number of Lecturers/Lecture Hours
GES 105	Agriculture, Renewable Natural Resources, Animal Husbandry and Health/Jointly taught by ten Lecturers (110 hours of Lectures per semester)
AGY 350	Introduction to Tropical Crops/Jointly taught by two Lecturers (15 hours of lecture and 45 hours of practical per semester).
HOR 310	Seed Production and Plant Propagation/Jointly taught by four Lecturers (30 hours of lecture and 45 hours of practical per semester).
AGY 512	Crop Husbandry II (Tuber and Fibre Crops)/Jointly taught by two Lecturers (15 hours of lecture and 45 hours of practical per semester).
AGY 520	Plant Breeding/Jointly taught by three Lecturers (15 hours of lecture and 45 hours of practical per semester).
AGY 530	Techniques in Field Experimentation and Analyses/Jointly taught by four Lecturers (15 hours of lecture and 45 hours of practical per semester)
AGY/AGM/ HOR/SOS 599	Special Project/Seminar/Jointly co-ordinated by two Lecturers (30 hours of seminar presentation).

Postgraduate courses

AGY 711	Physiological Genetics in Plant Breeding/Jointly taught by two Lecturers (15 hours of lecture and 45 hours of practical per semester).
AGY 713	Advanced Plant Breeding/Jointly taught by five Lecturers (30 hours of lecture and 45 hours of practical per semester).
AGY 701	Seminar/Jointly co-ordinated by two Lecturers (30 hours of seminar presentation per semester; Course runs for two semesters).

AGY 719 Special Topics in Agronomy/Jointly taught by 10 Lecturers (15 hours of lecture per semester; Course runs for two semesters).

Student Supervision

Student	Completed	In progress
Undergraduates	13	3
Postgraduates		
M. Sc.	10	10
Ph.D.	-	1

Participation in the University Administration

Member, Faculty of Agriculture and Forestry Socials and Colloquium Committee (2013 to date)

Member, Departmental Post-graduate Committee (2014 to date)

Member, Prof H. R. Chheda Crop Museum Committee (2014 to date)

Assistant Departmental Undergraduate Seminar Coordinator (2014 to date)

Assistant Departmental Postgraduate Coordinator (2016 to date)

Member, Departmental Laboratory Committee (2018 to date)

Assistant Departmental Postgraduate Seminar Co-ordinator (2019)

Provision of Community Service

Delivery of guest of lecture titled 'Genetically Modified Crops: Pathway to curbing world hunger; Ethics, Prospect and other related issues' during commemoration of University of Ibadan International year of Pulses organised by Nigeria Model United Nations Society UI Chapter on 31 October, 2016.

Delivery of Keynote Address on the topic 'Preparing Youths for Farming in Nigeria; The Pains and the Gains' during orientation and training programme for youth empowerment organised by Ogun-Oshun River Basin Development Authority, Abeokuta, Ogun State on 4 July, 2019.

Finance Secretary, Plant Breeders' Association of Nigeria (2019).

IX Research

(a) **Completed**

- (i) Effects of different sources of nitrogen on growth and yield of *Solanum macrocarpon* in the derived savannah of Nigeria.
- (ii) Marker-assisted selection for improvement of traits associated with high and early root productivity in cassava (*Manihot esculenta* Crantz).
- (iii) Participatory breeding for Pro-Vitamin A enriched cassava in Nigeria.
- (iv) Variation in response to pests and diseases, root yield and yield related traits among cassava genotypes in derived savannah agroecology.
- (v) Variation in yield and yield related traits of ten cassava varieties harvested at different age.
- (vi) Response of different varieties of yam to miniset propagation technique for production of seed yam.

(b) **In progress**

- (i) Improvement of cassava for carotene content and plant architecture

This study is aimed at addressing and alleviating the widespread hidden hunger and poverty among cassava farmers in Nigeria and other cassava growing countries which are mostly developing nations. The economy in the developing countries is heavily dependent on agriculture, hence, increased productivity and improved food quality will ensure considerable improvement in livelihood of farmers' household. The objective of this work is to develop high beta-carotene cassava varieties (with at least 15µg/g total carotene content) with desirable plant architecture (late and less branching) suitable for prevalent cropping system in Africa. Open pollinated seeds harvested from five high beta-carotene varieties with undesirable architecture were sown in the nursery in 2016. The progeny were evaluated for root yield, plant architecture, carotene content and other quality traits in Ibadan at seedling and clonal evaluation stages. The populations were also screened for resistance to cassava mosaic disease and beta carotene content using molecular markers at BecA-ILRI hub, Kenya between 2017 and 2018 to fast track the breeding programme. The genotypes are currently being evaluated at preliminary stage after which the promising genotypes will be evaluated in a multi-locational trial in Nigeria and the outstanding ones will be nominated for on-farm trials. This research work commenced in May 2015 and will be completed in 2022.

(ii) Effect of storage conditions on viability of breadnut (*Artocarpus camansi* Blanco)

Breadnut is an underutilised crop with great potential in improving nutritional value of livestock feeds and as a good and cheaper source of protein for human beings. However, the seed loses its viability within 48 to 72 hours after maturity, hence, it may be difficult to easily propagate the crop if there is little delay before sowing. Propagation of any crop and subsequent development depends on the quality of the planting material. Therefore, the focus of this study is to address the problem of rapid deterioration of breadnut leading to loss of viability and food value within few days after maturity. The objective of this study is to identify preservation method(s) that can be used to prolong viability of the seeds. In the previous study carried out in University of Ibadan between 2014 and 2016, none of the storage methods evaluated was effective in preserving the seeds, hence, the need for further investigation into other methods. This research work will be completed in 2022.

(iii) Establishment, growth, floral biology and seed productivity of breadnut (*Artocarpus camansi* Blanco)

Breadnut is currently being explored as a wild plant with little or no attention paid to its cultivation. In areas where the seeds are consumed as snacks, people pick up the fruits after dropping from the tree, process the seeds and boil or roast them. Breadnut has remarkable potential as an alternative food source in the tropics based on its nutritional content and level of seed production. However, little is known about the agronomy and biology of the crop, hence, the need to investigate the requirements for its establishment and growth. Also, there is need to investigate the biology and seed productivity of the crop as well as possible variation among different genotypes of the crops for important agronomic qualities. The objectives of this research study are therefore to investigate the requirements for establishment and growth of the crop. Also, the floral biology and seed productivity will be investigated to aid improvement of the crop for important traits. This study was commenced in 2014 and will be completed in 2030.

Project report, dissertation and thesis:

- (i) Olasanmi, B. (2001). The response of *Solanum macrocarpon* to soil amendments (inorganic, organic and organomineral fertilizers) - B. Sc. (Agric) Project Report. 68 pages.
- (ii) Olasanmi, B. (2004). Estimating cassava (*Manihot esculenta* Crantz) yield on farmer's plot - M. Sc. (Agronomy) Project Report. 79 pages.
- (iii) Olasanmi, B. (2010). Marker-assisted selection for improvement of traits associated with high and early root productivity in cassava (*Manihot esculenta* Crantz). Ph.D. Thesis. 189 pages.