Staff Directory

Adebambo, Ayotunde Olutumininu Email: tumininuadebambo@yahoo.com, adebamboao@funaab.edu.ng

Phone: + 234 803 8239503, +234 809 7766096
Organization: FUNAAB
College: COLANIM
Department: ABG
Rank: Reader

Biography:

Dr. Adebambo Ayotunde Olutumininu is a Reader in the Department of Animal Breeding and Genetics (ABG), Federal University of Agriculture, Abeokuta (FUNAAB). He guides the Department in its objective of poverty alleviation of the rural populace and enhancement of conservatory programme through determination of genetic control of quantitative traits in crossbred meat type chickens and the combination of strains to determine superiority. He is responsible for teaching, research, archiving, accumulation, arrangement and analysis of all data collected by both undergraduate and postgraduate students.

He graduated from the Premier University of Ibadan in 1998 and joined the service of FUNAAB in 2001 as a Graduate Assistant. He rose through the ranks of Graduate Assistant to Reader in 2014.

Over the last one and half decade at FUNAAB, Dr. Adebambo has been carrying out research activities, supervising and training of students on new methodologies in breeding, quantitative, molecular genetics, extension of new found results and testing of germ plasm on local production systems in Nigeria.

He has won so many award which include: Fellow Marie Sklodowska-Curie Action (MSCA), Research and Innovation Staff Exchange (RISE). European Commission project on "Blood Test for Clinical Therapy Guidance of Non-small Cell Lung Cancer Patients" (LungCARD). Jan. 2017 - *Ongoing*; The Bill and Melinda Gates **Program for Emerging Agricultural Research Leaders (PEARL)** awards. Oct. 2014 – 2017; C.V. Raman International Fellowship for African Researchers grant for 6 months postdoctoral study in Genome wide association study of Mithun (***Bos frontalis***). Jul. 2013 – Dec. 2013; Recipient of the Science and Technology Education in Post Basic Project (STEP-B) grant for 3 months training in Genome wide association study of Nigerian indigenous chicken at University of Nottingham funded by World Bank on Biotechnologies applicable to Agricultural production in Nigeria. Dec. 2012 – Feb. 2013; Recipient of the Institute of Food Security, Environmental Resources and Agricultural Research (IFSERAR), University of Agriculture, Abeokuta grant to carry out characterization of Nigerian indigenous chicken ecotypes using microsatellite markers; Recipient of the Science and Technology Education in Post Basic Project (STEP-B) grant for ongoing research project funded by World Bank on Biotechnologies applicable to Agricultural production in Nigeria; Outstanding Research Award for the presentation of a research project of high standard and relevance to national development at the 1st Nigerian universities research and development fair held at Abuja, 22nd to 25th November, 2004; Outstanding Research Award for the presentation of a research project of high standard and relevance to national development at the 2nd Nigerian universities research and development fair held at Abuja, December, 2005. He has 23 publications in learned journals and has written 5 textbooks. He has also supervised 65 undergraduate project students and 19 postgraduate project students. He has successfully developed 2 indigenous layer and 2 indigenous broiler hybrids for the Nigerian market (ALPHA BROWN PULLETS & ALPHA WHITE BROILERS). He is an expert in *in vitro* molecular techniques, Statistical and database software skills. Dr. Adebambo is a member of Genetics Society of Nigeria, Nigerian Society for Animal Production, World's Poultry Science Association, Nigerian branch, Animal Science Association of Nigeria, World Academy of Young Scientists, NigBiotechNet group.

Dr. Adebambo is currently working on stabilizing lines of improved indigenous chickens and genome wide association studies and population structure of indigenous livestock breeds using SNPs chips.

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Dr. Adebambo is currently working on stabilizing lines of improved indigenous chickens and genome wide association studies and population structure of indigenous livestock breeds using SNPs chips.

Curriculum Vitae:
Ayotunde O. Adebambo, PhD
Associate Professor, Animal Breeding and Molecular Genetics

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Abeokuta, Ogun State, Nigeria,
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E-mail: tumininuadebambo@yahoo.com, adebamboao@funaab.edu.ng

Education

2003 – 2008	University of Agriculture, Abeokuta. Ph.D. in Animal Breeding and Genetics
2000 – 2002	University of Agriculture, Abeokuta. M.Sc. In Animal Breeding and Genetics
1992 – 1998	University of Ibadan. B.Sc. (Hons) Animal Science (second upper)

Research Profile

My main field of research is Animal Breeding and Genetics. The aspects of ongoing and proposed research in my field are:

- **Blood test for clinical therapy guidance of cancer patients under cancer research and diagnostic (card) program**
- **Genome-wide population and association SNP studies of indigenous livestock species**
- **Molecular characterization of Nigerian livestock species.**
- **Quantitative trait loci mapping of important economic traits in indigenous chicken.**
- **Indigenous chicken improvement for alleviating poverty in Nigeria's rural populace.**

Post- graduate training (research)

1. Participant and member organizing committee, 2000 Summer Practical Course on Standard In-Vitro Recombinant DNA Techniques The Biotechnology Group, University of Agriculture, Abeokuta, Nigeria. International Resource Person: Dr. Joan Campbell-Tofte. Molecular Biologist, Institut Naturalchemie, Universitut, Denmark

2. Participant, 2001 Summer Practical Course on PCR Techniques – The Biotechnology Group, University of Agriculture, Abeokuta, Nigeria. International Resouce Person: Dr. Joan Campbell- Tofte. Molecular Biologist, Institut Naturalchemie, Universitut, Denmark

3. Participant in proposal writing course organized by International Institute of Tropical Agriculture, Ibadan. March, 2006. Resource person: Brent Simpson, Michigan State University (MSU).

4. Visiting scientist to International Livestock Research Institute on Characterization of Nigerian indigenous chicken June 26 – July 9, 2006; May 1 – June 14, 2007; June 3 – September 30, 2008.

5. Post doctorate fellow, C.V. Raman International Fellowship for African Researchers grant for Genome wide population and association study of Mithun (Bos frontalis). Jul. 2013 – Dec. 2013.

6. Participant at the Bill and Melinda Gates Foundation organized Leadership & Management Training workshop provided by hfp consulting under tutelage of Saso Kocevar and associates. November 23rd to 26th, 2014 at Cedarbrook Lodge. (18525 36th Ave S. Seattle, WA 98188).

7. Participant at Bill and Melinda Gates Foundation workshop on Project Finance Essentials, facilitated by Debbie Pitt of Mango (Managing NGOs Finances, www.mango.org.uk). April 11 to 13, 2016 at: Kunduchi Beach Hotel & Resort, Near Mtongani, Off Bagamoyo Road, Kunduchi, Dar Es Salaam, Tanzania

Employment summary

- Oct 2001 – Present: Department of Animal Breeding and Genetics, University of Agriculture, Abeokuta (UNAAB)
- Oct. 2014- present: Associate Professor/Research scientist, indigenous Breed Improvement and Characterization.
- Oct. 2011- 2014: Senior lecturer/Research scientist, indigenous Breed Improvement and Characterization.
- Oct. 2008 – Sept. 2011: Lecturer I/Research scientist, Indigenous Breed Improvement and Characterization
- Oct. 2005-Sept. 2008: Lecturer II/Research scientist, Indigenous Poultry Breed Improvement and Characterization
- Dec. 2002–Oct. 2005: Assistant Lecturer
- Oct. 2001-Dec. 2002: Graduate Assistant
- Aug. 1998 – Aug. 1999: Farm manager, Tekkor Poultry Farms, National Youth Service Corps place of primary assignment.

Research Experience: My Research Focus:

- Nigerian indigenous chicken improvement
- Population characterization of Nigerian livestock species
- Association studies for future selection and improvement of indigenous livestock
- New line research for the future

My contributions

Nigerian indigenous chicken improvement

I joined University of Agriculture, Abeokuta in October, 2001 as a graduate assistant with interest in indigenous animal breeds' improvement and development.

I started working on the development of meat type (i.e. broiler chickens) by studying the Combining Abilities of the pure indigenous chicken in combinations with other chicken lines which were available in Nigeria and the imported Giriraja from India in order to evaluate them as crossbreds for growth and carcass quality. The work involves determination of genetic control of quantitative traits in meat type chickens and the combination of strains to determine superiority. This I achieved using statistical packages such as Statistical analysis system, Genstat, Dial and Hafez software packages. One of my thesis conclusion was that a cross combination of indigenous chickens and exotics produce a good base population that can aid in poverty alleviation among the rural populace and also to enhance conservation programmes. Papers 1-4 were published from this work.

One of my responsibilities, apart from teaching and research in the Department is the archiving, accumulation, arrangement and analysis of all data collected by both undergraduate and postgraduate students. The Department of Animal Breeding and Genetics had worked for about a decade on improvement of Nigerian indigenous poultry and ruminant breeds for quantitative traits analyses, before I joined the Department, however, on joining the Department, I have been able to analyze for Strain effects, Variance Components of the traits, Breeding Values and Combining Abilities of strains. I have also been able to model different situations using readymade statistical models and those that I derived; these are reported in my papers 8, 10 and 12.
Our research on the development of indigenous broiler strains from combination of several chicken genotypes made us to look at the Combining Abilities of the different genotypes this was reported in papers 6, 8 and 12.
Evaluation of the growth and carcass qualities as well as feed conversion efficiencies were carried out and reported in papers 13 and 16.

Resulting from these works, in association with the Poultry Breeding Team at the Department, we developed two major tri-hybrid lines of improved indigenous broiler chickens which were tested and found acceptable to surrounding farmers which we showcased at the National Universities Research Fairs (NUSREDEF) in 2004 and 2005 at Abuja on which we received Outstanding Poultry Breeding Research Awards. We also received the Bill and Melinda Gates Foundation's Program for Emerging Agricultural Leaders (PEARL) award in October, 2014. We operated the award till December, 2016 of which we were able to set up a PEARL-FUNAAB farm specialized for indigenous poultry breeds improvement.

From 2005, I decided to base the Poultry breeding outcomes on an indisputable standard such as molecular evaluation by going to the genome level to look at the characterization of the lines developed in comparison with other native chickens of other countries.
In order to answer many questions on how, where and when the Nigerian indigenous livestock populations originated; my postdoctoral trainings were therefore tailored towards molecular characterization of the indigenous animal types.

These include:

Population characterization of Nigerian livestock species
Evaluation of population structure and molecular characterization of indigenous livestock specie: chicken, sheep, goat, cattle.

With an MOU signed with International Livestock Research Institute, Nairobi, Kenya and a working collaboration with University of Cordoba, Spain I was able to use facilities in these places in collaboration with their research scientists to answer some of these questions. In collaboration with the International Chicken Consortium which cut across Ethiopia, Spain and Portugal, we were able to analyze the chicken genome using the Mitochondrial D-Loop. The results from this study show that the Nigerian indigenous chicken originated from South East Asia and had not shown any substructure, these were demonstrated in papers 5, 7 and 39 and had been presented at conferences as published in the refereed proceedings 48, 51 and 52. My work with other species apart from chicken, are presented in papers 9, 22, 23, 38 and 39 on Indigenous goats, paper 48 (sheep), 38 (duck), 40 (pig) and 20, 28 and 30 on fish.

Association studies for future selection and improvement of indigenous livestock
Development of Marker Assisted Selection (MAS) methods using PCR-RFLP, Microsatellite Markers and Candidate Gene approach for evaluating the improved indigenous chicken lines as pure lines and crossbreds.
Presently, I am working on Association Studies between selected Candidate Genes by looking at their genetic polymorphisms such as Insulin-Like Growth Factor-I (IGF-I) and Transforming Growth Factor-β (TGF- β), Chicken Growth Hormone Gene (CGH), Signal Transducer and Activator of Transcription 5B (STAT 5B) genes and their effect on improved indigenous broiler lines' for higher growth rate and better carcass quality. These

were carried out with some M.Agric students, but the results were inconclusive. Some papers were published though in goats (papers 26) and turkey (papers 34 and 36).
One of the major diseases affecting productivity in poultry chicken is coccidiosis caused by *Eimeria sp.* It is my desire that in the future of improved Nigerian indigenous chicken we will develop a chicken that shows resistance to coccidiosis. The beginning of such study is what I have in papers 24 and 31.

While undergoing these researches, new methods came up that could provide in-depth information on indigenous animal populations by using Association Studies in the form of Genome-Wide Association to examine variations in the whole genome for Single Nucleotide changes that could lead to genetic polymorphisms. To be able to carry out this research, I had to undergo training at University of Nottingham (UoN), United Kingdom for 3 months on Poultry breeds evaluation from September to November 2012 sponsored under the STEP-B project and recently went for another 6 months training at the National Research Centre for Mithun cattle breed (NRCM), India for evaluation of ruminant breeds from July 2013 to January 2014 with support of the C.V. Raman international Fellowship for African researchers. I currently have research works in progress on indigenous chicken and the Mithun Cattle population in India in collaboration with Prof Olivier Hanotte (UoN) and Dr Anupama Mukhergee (NRCM), respectively.

In 2015 I developed a new interest in gene expressions, firstly because the University acquired a real time PCR machine and secondly, after working and realizing the shortcomings of candidate gene approach to detect variations in performance. I have 2 Masters Students working on Leptin and Grehlin gene expression in different tissues of poultry chicken. This I envisage will be a start up to gene expression studies in the University. I also have a desire to auto sex chickens beyond using the barr and k gene. This has always been a strange and curious interest for me. I keep wondering the possibility of getting a gene of interest in the W chromosome that can fulfil this purpose. I have attached another masters student to do a thorough bioinformatics research on the chicken W chromosome to achieve this.

My interest in molecular genetics and biotechnology at the University puts me in charge of operating 3 biotechnology laboratories. I co-run with other members of the University of Agriculture, Abeokuta Biotechnology group the University Central biotechnology lab. I am also in charge of the two Animal Breeding and Genetics department ruminants and monogastric animal molecular lab. I coordinate both post graduate and undergraduate students' projects and their use of the laboratory facility. One of the characters I adopted while on international training is to adapt anything I learn to my countries' condition. I must be able to replicate work done outside the country at home so as to impact my students and colleagues. Because of the erratic power supply, I had to operate a personal laboratory to enhance my personal work and training of students and scientist 24/7 on molecular studies. I operate my personal laboratory under the name Biotech High laboratory; now evolved to ACUTIG Nigeria Ltd (www.acutig.com); a genetic service company. The laboratory is fully equipped for basic molecular work and employs three permanent and 3 temporary staffs. With the ACUTIG facility I have been able to train different cadres of students and scientists and carry out various molecular researches either *in-situ* or *ex-situ* the laboratory. ACUTIG collaborates with an international company STABVIDA Genetic services (www.stabvida.com) which allows us to incooperate other services like parentage testing, disease detection, cancer detection.

Due to my international recognition in the field of molecular genetics, I have been awarded a grant research in the field of cancer genetics for cancer biomarker detection under the Marie Sklodowska-Curie Action (MSCA), Research and Innovation Staff Exchange (RISE). European Commission project on "Blood Test for Clinical Therapy Guidance of Non-small Cell Lung Cancer Patients" (LungCARD). 2016. The grant is presently ongoing and letter of ethics and MOU has being signed with the relevant collaborators.

Teaching Philosophy

The Nigerian students find the field of genetics quite abstract, therefore in my teachings I tried to make them visually stimulating and practically oriented as much as possible. I believe that teaching and learning should be fun and it revolves in both directions; teachers and students sharing experience. In my teaching I go beyond traditional monologue dictation of theoretical to a dialogue based class with group discussions. The Nigerian students find the field of genetics quite abstract, therefore my teachings are set to be visually stimulating and practically oriented as much as possible.

It is my firm belief that physical concepts cannot be taught or learned merely through lectures and/or reading. I believe stimulating all the senses will give a fulfilling learning process. The use of power point presentations and videos are common in my genetic classes which student claims to better suit them.

These concepts also demand the use of an entirely different part of the brain than language and therefore must be examined and practiced in non-verbal ways. For this reason, I use problem sets extensively in all of my teaching. Because I consider the problem-solving process so important, most of my grading is based on problem assignments. I find that by frequent assignment of problems I can assure that the students have thoroughly studied the concepts I've presented in my lectures. Often, I set up problem sets in my lectures and then, in the problem set, lead the student through a derivation or analysis in a step- by-step fashion. Many times the problem sets present new material that is never covered in class. This can often be a very time- consuming way for the students to learn, but I have been pleased to hear from many of them that they consider it time well spent. I also encourage the students to collaborate on the problems and often hold help sessions so that this process can occur with some guidance from either me or a teaching assistant. This not only helps the students overcome some of the thorny concepts but also provides useful feedback to me to improve my lecture presentations and problem writing.

Institutional responsibilities:

1. Acting Head of Department, Animal Breeding and Genetics, Federal University of Agriculture, Abeokuta. August 2015 – August 2017
2. Carrying out of research activities, supervising and training of students on new methodologies in breeding, quantitative and molecular genetics. Extension of new found results and testing of germplasm on local production systems in Nigeria. Writing of research grants and seeking for donors.
3. Managing the Bill and Melinda Gates **Program for Emerging Agricultural Research Leaders (PEARL)** awards poultry breeding farm.
4. Coordinator, Department of Animal Breeding and Genetics undergraduate student project 2008 till 2014.
5. Sports coordinator, College of Animal Science and Livestock Production, FUNAAB, Abeokuta 2013 till date
6. Member, College Board, College of Natural Sciences, FUNAAB, Abeokuta 2012 till 2014.
7. Member, College Board (COLANIM) (Dec. 2001-Till Date).
8. Staff Adviser in the Department of Animal Breeding and Genetics.
9. Member, Organizing committee and resource person in the annual summer practical training course on standard *in-vitro* recombinant DNA techniques and bioinformatics organized by The Biotechnology Group, University of Agriculture, Abeokuta, Nigeria. In collaboration with other resource persons like:
    - Dr. Paul Keese, International Institute of Tropical Agriculture, Ibadan, Nigerian,
    - Dr. Ivan Ingelbrecht, International Institute of Tropical Agriculture, Ibadan, Nigerian,
    - Professor Clement Bewaji, Biomembranes and Bioinformatics Research Laboratories, Dept. of Physiology and Biochemistry, University of Ilorin, Nigeria.
    - Dr. Joan Campbell-Tofte. Molecular Biologist, Division of Experimental Pathology, Faculty of
    - Medicine, Lunds University, Mas, Malmo, Sweden.

- Dr. Yvonne Lokko, International Institute of Tropical Agriculture, C/O LW Lambourn (UK) Ltd, Carolyn House, 25 Dingwall Rd. Croydon CR9 3EE, UK.
- Dr. Taiwo Adewole, National Institute for Medical Research, Yaba, Lagos, Nigeria.
- Dr. Ochem E. Alexander, International Centre for Genetic Engineering and Biotechnology, Cape Town, South Africa.
- Dr. Nwadiuto Esiobu, Ph.D. Florida Atlantic University, Davie Florida, USA.
- Prof. J.L.Starr, Texas AgriLife Research College, Texas A & M University, USA.
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10. Resource person at the Training Workshops on Introductory Biotechnology on Animal Genomics at the Biotechnology Centre, Federal University of Agriculture, Abeokuta. April 2014
11. Resource person at the Training Workshops on Practical Animal and Plant Genomics at the Biotechnology Centre, Federal University of Agriculture, Abeokuta. 22nd to 28th June, 2014

Community service

- Training and biotechnology awareness for secondary schools students.
- Reviewer to the following journals: Nigerian Journal of Animal Production, Tropical Animal Health and Production, The Philippine Agricultural Scientist, Archivos De Zootecnia

Consultancy services

- Consultant on artificial insemination to S and D (Sotinoye and Aderupoko) Farms, Abeokuta Ibadan Expressway, Itesi Ajegunle Village, Odeda, Ogun. From 2005 to 2008.
- Consultant to Bnot Harel Nigerian Limited, Agriculture Integration Solutions, 1, J.k. Closed, 14th Avenue, Off Zartech Road, Oluyole Estate,Ring Road. Ibadan, Oyo State, Nigeria. www.bnotharel.com. From 2007 to 2010. Product marketing and farm management consultant.
- Consultant and Regional coordinator to USAID's Maximizing Agricultural Revenue in Key Enterprises and Targeted Sites (MARKETS II), Mid-term evaluation survey with the Market Research Consultancy Limited (MRC) under subcontract to Chemonics International Inc. May 2015.

Professional affiliations

Member, Genetics Society of Nigeria (GSN)
Member, Nigerian Society for Animal Production (NSAP)
Member, World's Poultry Science Association, Nigerian branch.
Member, Animal Science Association of Nigeria (ASAN)
Member, UNAAB Biotechnology Group.
Member, World Academy of Young Scientists. (WAYS)
Member, NigBiotechNet group

Awards –Prize

1. Fellow Marie Sklodowska-Curie Action (MSCA), Research and Innovation Staff Exchange (RISE). European Commission project on "Blood Test for Clinical Therapy Guidance of Non-small Cell Lung Cancer Patients" (LungCARD). 2017 - *Ongoing*.

   Training at STAB VIDA Genetics Laboratory, Caparica, Portugal on cancer variants detection using Sanger sequencing and Fragment analysis. Ion Torrent sequencing, Point-of-care technology, Lab-on-a-chip technology – April 2017

   Training at Universidade De Tras-Os-Montes E Alto Douro, Vila Real, Porto, Portugal in

karyogenomics, cell culture, real-time PCR technology for High Resolution Meltdown analysis, quantitative PCR analyis, Oxford Nanopore MinION sequencing Technology – April-June, 2018

Training at Centre for Medical Genomics - OMICRON, Jagiellonian University, Krakow, Poland on Gene expression analysis, Illumina and Ion Torrent sequencing. – July 2018

2. Recipient of the Bill and Melinda Gates **Program for Emerging Agricultural Research Leaders (PEARL)** awards. Oct. 2014 - 2017.

3. Recipient of the C.V. Raman International Fellowship for African Researchers grant for 6 months postdoctoral study in Genome wide association study of Mithun (***Bos frontalis***). Jul. 2013 – Dec. 2013.

4. Recipient of the Science and Technology Education in Post Basic Project (STEP-B) grant for 3 months training in Genome wide association study of Nigerian indigenous chicken at University of Nottingham funded by World Bank on Biotechnologies applicable to Agricultural production in Nigeria. Dec. 2012 – Feb. 2013.

5. Recipient of the Institute of Food Security, Environmental Resources and Agricultural Research (IFSERAR), University of Agriculture, Abeokuta grant to carry out characterization of Nigerian indigenous chicken ecotypes using microsatellite markers.

6. Recipient of the Science and Technology Education in Post Basic Project (STEP-B) grant for ongoing research project funded by World Bank on Biotechnologies applicable to Agricultural production in Nigeria.

7. Recipient of the award to characterize the Nigerian indigenous chicken. Funded by International Livestock Research Institute, Kenya. Under the supervision of Dr. Olivier Hanotte Project Leader BT02, Animal Genetic Resources. 2006- 2008.

8. Member of the group that obtained Outstanding Research Award for the presentation of a research project of high standard and relevance to national development at the 1st Nigerian universities research and development fair held at Abuja, 22nd to 25th November, 2004

9. Member of the group that obtained Outstanding Research Award for the presentation of a research project of high standard and relevance to national development at the 2nd Nigerian universities research and development fair held at Abuja, December, 2005.

University Teaching

Undergraduate courses taught: Farm practice 1&2: artificial insemination and pig management (FMP301&302), Fundamentals of animal breeding (ABG300), Farm practical year (FPY406), animal Behavior (ABG503), Biotechnology in animal improvement (ABG504), Biochemical genetics (ABG506), Genetics (BLY522).

Postgraduate courses taught*:* Introductory biotechnology (ABG801), Advanced biotechnology (ABG806), Biochemical genetics (ABG811), Advanced Biotechnology (APL 806), Monogastric animal breeding (PDA718), Artificial insemination in poultry (ABD 707), Poultry management (ABD 711), Hatchery management and practical (ABD 710).

Research in progress

- Execution of biotechnology practice in ambient tropical conditions testing different reagents and consumables
- Circulating cancer cell enrichment using physical and antibody based methods

- Genome-wide structure and diversity of non-pedigree Nigerian indigenous livestock populations: Adebambo A.O., O. Hanotte…….

Research output
Number of undergraduate projects initiated and supervised: 96
Number of postgraduate projects initiated and supervised: 14
Number of book publications: 5
Number of publications in learned journals: 41
Number of referred conference proceedings: 16

PUBLICATIONS:

Books

1. Adebambo, Olufunmilayo, A. O. Adebambo, A. O. K. Adesehinwa. 2010. *Pig breeding feeding and fattening a module for small scale production. College of Animal Science and livestock Production, university of Agriculture, Abeokuta. ISBN: 978-978-906-991-0. pp 55.*

2. Adebambo, Olufunmilayo, **A. O. Adebambo**, M. A. Adeleke. 2010. *Illustrative glossary of genetic terms. College of Animal Science and livestock Production, university of Agriculture, Abeokuta. ISBN: 978-978-49681-9-5. pp 77.*

3. Adebambo Olufunmilayo, Daisy Eruvbetine, **A. O. Adebambo**, M. A. Adeleke, E. S. Ajibola, A. O. Ajayi. 2011. *Poultry breeding, feeding and hatchery management. College of Animal Science and livestock Production, university of Agriculture, Abeokuta. ISBN: 978-978-49681-8-8. pp 157.*

4. Adebambo, Olufunmilayo, A., and **Adebambo Ayotunde, O**. 2013. *DNA, Genes and Proteins in Introductory Biotechnology*. Tertiary educational trust (TETFUND) TETF/ESSD/FUOA/ABEOKUTA/AMB/11 & 12/01. *ISBN: 978-078-809-3. Pp276.*

5. Olowofeso, O., Durosaro, S. O., Ozoje, M. O., Ikeobi, C. O. N., Adebambo, O. A., Omeje, S.S. I., Adeleke, M. A., **Adebambo, A. O.,** Bemji, M. N. and Sanda, A. J. (2013c): Animal breeding in Nigeria: current challenges and future prospects. In Animal Breeding & Feeding in Nigeria. Occasional Scientific Publications for Nigeria's Agricultural Transformation Agenda. Chapter 3(1): 96-102. Publisher: University of Nigeria, Nsukka, **NIGERIA.** ISBN: 978-978-8446-32-3, (*360pp*).

Thesis and Dissertation

1. Adebambo, A. O. 1998. Effect of Palm Kernel Cake and Wheat Offal in the diet on feed volume and performance of laying birds. B.Sc. Project; Department of Animal Science, University of Ibadan.

2. Adebambo, A. O. 2002. Evaluation of the Genetic Variation among Growth traits of Indian and Nigerian chicken genotypes. M. Agric. Dissertation; Department of Animal Breeding and Genetics, University of Agriculture, Abeokuta.

3. Adebambo, A. O. 2008. Genetic variations and combining abilities in the performance of pure and crossbred meat type chickens. Ph.D. Thesis; Department of Animal Breeding and Genetics, University of Agriculture, Abeokuta.

Publications in peer reviewed journals

1. **O. Adebambo**, M. O. Ozoje, S. S. Abiola and Funmi Adebambo (2006). *Analysis of the Growth Curves of Indian and Nigerian Chicken Ecotypes In The Humid Tropics. ASSET journal series A. 6 (1): 103-110.*

2. **A. O. Adebambo**, M. O. Ozoje, S. S. Abiola and Funmi Adebambo (2006). *Genetic variations in the growth performance of Giriraja, Indian White Leghorn and improved indigenous chicken genotypes in South-West Nigeria. Nigerian Journal of Genetics. 20: 9-21. http://ajol.info/index.php/njg/article/view/42247*

3. **Adebambo, A. O.**, Ikeobi, C. O. N., Ozoje, M. O., Oduguwa, O. O. and Adebambo, Olufunmilayo A. (2007). *Estimate of some genetic parameters of growth traits among pure and crossbred meat type chickens. Nig. J.Genet. Vol 21: 67-85.*

4. **Adebambo, A. O.**, Ikeobi, C. O. N., Ozoje, M. O., Oduguwa, O. O. and Adebambo, Olufunmilayo A. (2008). *Genetic variation in feed efficiency among pure and crossbred meat type chickens. Nigerian Poultry Science. Journal. Vol 5 (2): 61-69.*

5. **Adebambo, A. O.**, Ikeobi, C. O. N., Ozoje, M. O. and Adebambo, Olufunmilayo A. (2009). *Variation in growth performance of pure and crossbred meat type chickens. Nigerian Journal of Animal Production. 36 (2). (211-227)*

6. **Adebambo, A. O.** and the chicken diversity consortium (2009). *Mitochondrial DNA D-loop analysis of South Western Nigerian chicken. Archivos Zootecnia. Vol 58. Num 224. 637-643. http://www.uco.es/organiza/servicios/publica/az/php/img/web/07_12_20_01MitochondrialAde bambo.pdf*

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Technologies produced

Successfully developed 2 indigenous layer and 2 indigenous broiler hybrids for the Nigerian market. (ALPHA BROWN PULLETS & ALPHA WHITE BROILERS).

EXPERTISE:

- DNA extraction, purification and spectrophotometric assay
- PCR, Real time PCR
- Genomic analysis
- In vitro amplification of DNA fragments by polymerase chain reaction (PCR)
- Agarose and polyacrylamide gel electrophoresis of DNA
- Starch gel and cellulose acetate gel electrophoresis of polymorphic proteins
- Parentage and forensic analysis
- Microsatellite analysis
- PCR-RFLP analysis
- Artificial insemination in poultry
- Statistical and database software skills (R, genABEL, SYSSTAT, dBase, Excel, GENSTAT, MINITAB, SPSS, SAS, HAPHEZ, GeneMapper, DNAsp, STRUCTURE, Arlequin, Microsatellite toolkit, GeneAlex, Network, Genepop, Population, FSTAT etc.) computing word and image processing

Funding

The following are the major grant successfully obtained.

2017 Fellow Marie Sklodowska-Curie Action (MSCA), Research and Innovation Staff Exchange (RISE). European Commission project on "Blood Test for Clinical Therapy Guidance of Non-small Cell Lung Cancer Patients" (LungCARD). (Jan. 2017 till date). (Active)

2014 Recipient of the Bill and Melinda Gates **Program for Emerging Agricultural Research Leaders (PEARL)** awards for Evaluation, Characterization and Development of high-producing local chicken germplasm for growth and egg production under semi-scavenging rural production. (Sept. 2014 – Oct. 2016). ($393,700.00)

2013 Recipient of the C.V. Raman International Fellowship for African Researchers grant for 6 months postdoctoral study in Genome wide association study of Mithun (***Bos frontalis***). Jul. 2013 – Dec. 2013. ($5000.00)

2012 Recipient of the Science and Technology Education in Post Basic Project (STEP-B) grant for 3 months training in Genome wide association study of Nigerian indigenous chicken at University of Nottingham funded by World Bank on Biotechnologies applicable to Agricultural production in Nigeria. Dec. 2012 – Feb. 2013. (£1800.00)

2010 Recipient of the Institute of Food Security, Environmental Resources and Agricultural Research (IFSERAR), University of Agriculture, Abeokuta grant to carry out characterization of Nigerian indigenous chicken ecotypes using microsatellite markers. ($3,333.33)

2008 Recipient of the Science and Technology Education in Post Basic Project (STEP-B) grant for ongoing research project funded by World Bank on Biotechnologies applicable to Agricultural production in Nigeria. ($450,000)

2008 Mitochondrial DNA D-loop analysis of Northern Nigerian chicken. Funded by International Livestock Research Institute, Kenya. Under the supervision of Dr. Olivier Hanotte Project Leader BT02, Animal Genetic Resources. ($25,000)

2008 Microsatellite characterization of Nigerian chicken. Funded by International Livestock Research Institute, Kenya. Under the supervision of Dr. Olivier Hanotte Project Leader BT02, Animal Genetic Resources. ($2000)

2007 Mitochondrial DNA D-loop analysis of South Western Nigerian chicken. Funded by International Livestock Research Institute, Kenya. Under the supervision of Dr. Olivier Hanotte Project Leader BT02, Animal Genetic Resources. ($18,000)

2007 Collection of Northern Nigerian indigenous chicken blood samples. Fund provided by International Livestock Research Institute. Under the supervision of Dr. Olivier Hanotte Project Leader BT02, Animal Genetic Resources ($7,500)

2006 Collection of South Western Nigerian indigenous chicken blood samples. Fund provided by International Livestock Research Institute. Under the supervision of Dr. Olivier Hanotte Project Leader BT02, Animal Genetic Resources ($5,700)

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