



DR. A. O. FAFIOLU Profile

**Department of Animal Nutrition,
Federal University of Agriculture,
Abeokuta, Nigeria**

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Dr Fafiolu, Adeboye Olusesan joined the services of the Federal University of Agriculture, Abeokuta as an assistant lecturer in the year 2005 after completing his M. Agric. Degree

programme in 2003. His involvement in teaching at FUNAAB had allowed him to be instrumental in the development of curricula in the field of Animal Science. He was instrumental in the redesign of the website and the e-learning platform in FUNAAB. Through the development of innovative curriculum, quality teaching, and strong industry linkages, increased enrolment and interest of many students in all the programmes had been achieved. He has actively engaged his students using the latest innovation in teaching and stimulating interest and this approach are allowing students to have better grades. His teaching experience has allowed him to work with a range of people in the light of his career. Dr Fafiolu had led my University in building successful developmental courses, internships for student and faculty, experiential learning and personalised instructions for improved learning.

Research and innovation

Dr Fafiolu's research interest revolves around the evaluation of feedstuffs and its improvement using innovative technologies. He had proposed and used exogenous enzymes, chelated minerals and other means for improved utilization of unconventional feedstuffs. In the course his research efforts, he has attracted several donor funds which were managed successfully. He competed for national and international donor funds and successfully won several of such funds. Dr Fafiolu has a total of One hundred and twenty (120) publications in print both at local and international reputable outlets with high impact. He participated in running many research teams as a principal or co-investigator. He is particularly motivated in judicious management of donor funds running into several billions of naira with great success. He mentored and still mentoring many students as evident in the number of students supervised at different levels of engagements. Dr Fafiolu is a good team player as he had participated in many local, national and international professional engagements with high level of success.

Quality Assurance

He has taken leadership roles in both national and international accreditation efforts and his involvement and contributions assisted the University to earn national and international accreditation for higher education (the first by any public University in Nigeria). He has served in many University Committees that advanced curriculum development and reviews, built and maintained course schedules, and worked with private organisation/industry to advance teaching and learning by students. He had severally supported staff development efforts in much public organisation in Nigeria and engaged in community development activities.

National and international engagement

Dr Fafiolu currently serve as the national secretary of the World's Poultry Science Association (WPSA) Nigeria Branch. His activities at helping to solve national problems and maintaining the quality of feed and feed inputs for livestock husbandry had led to my engagement with the National Agency for Food Drugs Administration and Control (NAFDAC).

Students Management

Generally, he have an understanding of how best to take care of student needs. He had worked as chairman, hostel management committee in FUNAAB and also a member of the Student welfare committee in the University.

CURRICULUM VITAE OF DR. A. O. FAFIOLU

01

PERSONAL DATA

(i)	Name in Full:	FAFIOLU , Adeboye Olusesan
(ii)	Date of Birth:	October 1, 1972
(iii)	Place of Birth:	Ikeja, Lagos
(iv)	Age:	48years
(v)	Sex:	Male
(vi)	Marital Status:	Married
(vii)	Nationality:	Nigerian
(viii)	Town and State of Origin:	Abeokuta and Ogun State
(ix)	Contact Address:	Department of Animal Nutrition, Federal University of Agriculture, Abeokuta, Nigeria.

- (x) Phone Number: +234803038225891
 (xi) E-mail Addresses: fafiolu2000@yahoo.com
fafioluao@funaab.edu.ng
 (xii) Date of Confirmation of Appointment 28th September, 2007
 (xiii) Date and Grade level of last promotion October 1, 2017 CONUASS 06 Step 3
 (xiv) Present Salary Scale and Actual Salary Reader CONUASS 06 Step 3
 (xv) Post on Promotion: Professor

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EDUCATIONAL BACKGROUND

(i) Educational institution attended (with dates)

Holy Trinity Pry Sch. Okenla Ifo, Ogun State	1976 -1979
Ifo/Ota Local Govt Pry Sch. Olose ifo, Ogun State	1979 - 1983
Festac Grammar School, Festac Lagos	1990 - 1993
University of Agriculture, Abeokuta, Nigeria	1993 - 1999
University of Agriculture, Abeokuta, Nigeria	2001 - 2003
University of Agriculture, Abeokuta, Nigeria	2003 - 2008

(ii) Academic and professional qualifications (with dates)

B. Agric. (Hons)	University of Agriculture Abeokuta, Nigeria	1999
M. Agric.	University of Agriculture Abeokuta, Nigeria	2003
Ph.D.	University of Agriculture Abeokuta, Nigeria	2008

(iii) PRIZES, HONOURS, AWARDS, NATIONAL AND INTERNATIONAL RECOGNITION

- (a) **Principal Investigator**, National Research Fund (NRF, 2019) on Development of novel feed additives for domestic chickens through innovative inclusion of phytogenics.
- (b) **Co-Investigator**, National Research Fund (NRF, 2019) on Use of red and white sorghum in feeding system for poultry and implications of locally produced Tannase enzyme supplementation.
- (c) **Principal Investigator**, Nottingham Trent University Visiting Scholars Fellowship on Investigating the level of susceptible phytate in seeds and beans used in Animal feed and reducing its negative impact, 2018.
- (d) **Principal Investigator**, Africa Chicken Genetic Gains (ACGG) on use of black soldier fly in Nigeria Improved indigenous Chicken and implication of enzyme supplementation, 2017
- (e) **Principal Investigator**, Evonik Germany in Association with Evonik West Africa on the implications of L-threonine supplementation on performance, carcass yield and immune status of broiler chickens 2017
- (f) **Co-Investigator**, Tertiary Education Intervention Fund (TETFUND) on Genomics of salmonella tolerance in Nigeria local chickens, FUNAAB, 2016
- (g) **Principal Investigator**, Imprexco Belgium on Investigations of multi-carbohydrase enzyme and use of Palm Kernel cake in broiler chickens 2016
- (h) **Principal Investigator**, Tertiary Education Intervention Fund (TETFUND), National research grant for research on investigation uncovering the potentials of phytogenics as feed additives and its implications on poultry production dynamics 2015

- (i) **African Centre of Excellence project on quality of postgraduate programme in Africa 2014 - 2020**
- (j) **Co-Investigator**, Tertiary Education Intervention Fund (TETFUND), research grant on Viable options for development of complete micronutrients mixtures for poultry using adoptable technologies, 2014
- (k) Received a grant from Tertiary Education Trust Fund (Tetfund) to attend Poultry Science Association annual conference in San Diego, California, USA July, 2013.
- (l) **Co-Investigator**, Tertiary Education Intervention Fund (TETFUND), National research grant for the development of vitamin and trace mineral premix using contemporary innovational technology 2013-2014
- (m) **Co-Investigator**, Tertiary Education Intervention Fund (TETFUND), National research grant for research on investigation of genetical genomics of coccidiosis in Nigerian Indigenous chickens 2013-2014
- (n) **Received Albert Einstein Award of Excellence by American Biographical Institute. World Symposium on Science, San Francisco, California, USA, 2011.**
- (o) Received award for the best PhD thesis in Agriculture within the Nigerian University System from National Universities Commission (NUC) under the Nigerian Universities Doctoral thesis award Scheme April, 2010.
- (p) Received letter of Congratulation and Commendation from Vice Chancellor University of Agriculture Abeokuta for successful completion of PhD and academic activities (2008)
- (q) **Received Travel grant for young scientist to attend Annual Spring Meeting of World's Poultry Science Association- United Kingdom Branch held in Floral Hall Southport UK in April 2007 by British Poultry Limited, UK.**
- (r) **Received Travel grant for young scientist to attend Annual Spring Meeting of World's Poultry Science association-United Kingdom Branch held in University of York, York, UK in April 2006, by Foundation for Poultry Development, Netherlands**
- (s) **Received Travel grant for young scientist to attend 15th European Symposium on Animal Nutrition held in Balatunfured, Hungary (2005) by Foundation for Poultry Development, Netherlands**
- (t) Received Letter of Commendation for selfless service UNAAB Consult Ltd (2004
- (u) Received Federal Government of Nigeria Scholarship for Postgraduate studies (2001)

Awards in bold prints are foreign and international ones

03 WORK EXPERIENCE

- a. Reader, Federal University of Agriculture, Abeokuta (Oct. 2017 till date)
- b. Senior Lecturer, Federal University of Agriculture, Abeokuta (Oct. 2014-Sept., 2017)
- c. Lecturer I, Federal University of Agriculture, Abeokuta (Oct. 2011- Sept. 2014)
- d. Lecturer II, Federal University of Agriculture, Abeokuta (Feb., 2008 – Sept. 2011)
- e. Assistant Lecturer, Federal University of Agriculture, Abeokuta (Sept. 2005- Feb., 2008)
- f. Farm Supervisor, UNAAB Consult Ltd Abeokuta, Nigeria (Sept. 2002- August. 2005)
- g. Farm Supervisor, Canaan Farms Ibadan, Oyo State, Nigeria (Sept. 2000 –August. 2001)
- h. Team Leader for Farm Practical Year Programme (1998- 1999)
- i. Teaching experience at University of Agriculture, Abeokuta from September, 2005 to date.

I teach the following courses:

Session	Course code	Course Title	Unit	No of students	No of lecturers
2005/2006	ANN 303	Principles of Animal Nutrition	3	612	3
	AGS 597	Seminar I	1	130	35
	AGS 598	Seminar II	1	130	35
	AGP 599	Project	4	1	1
2006/2007	ANN 303	Principles of Animal Nutrition	3	558	3
	AGS 597	Seminar I	1	46	8
	AGS 598	Seminar II	1	46	8
	AGP 599	Project	4	2	1
2007/2008	ANN 303	Principles of Animal Nutrition	3	854	4
	AGS 597	Seminar I	1	79	10
	AGS 598	Seminar II	1	79	10
	AGP 599	Project	4	12	1
2008/2009	ANN 303	Principles of Animal Nutrition	3	8	4
	ANN508	Non-Ruminant Animal Nutrition	3	310	2
	AGS 597	Seminar I	1	80	10
	AGS 598	Seminar II	1	80	10
	AGP 599	Project	4	12	1
	PDA715	Feed quality Control	3	4	1
	ANN706	Tropical Livestock Feed formulation	3	15	3
2009/2010	ANN 303	Principles of animal Nutrition	3	854	4
	ANN508	Non-Ruminant Animal Nutrition	3	398	3
	AGS 597	Seminar I	1	79	10
	AGS 598	Seminar II	1	79	10
	AGP 599	Project	4	12	1
	PDA715	Feed quality Control	3	2	1
	ANN706	Tropical Livestock Feed formulation	3	21	3
2010/2011	ANN 303	Principles of Animal Nutrition	3	799	4
	ANN508	Non-Ruminant Animal Nutrition	3	259	2
	AGS 597	Seminar I	1	49	10
	AGS 598	Seminar II	1	49	10
	AGP 599	Project	4	4	1
	PDA715	Feed quality Control	3	2	1
	ANN706	Tropical Livestock Feed formulation	3	3	3
2011/2012	ANN 303	Principles of Animal Nutrition	3	1200	4
	ANN508	Non-Ruminant Animal Nutrition	3	350	2
	AGS 597	Seminar I	1	75	10
	AGS 598	Seminar II	1	75	10
	AGP 599	Project	4	6	1

	PDA715	Feed quality Control	3	5	1
	ANN705	Advances in carbohydrate and fat metabolism	3	35	2
	ANN706	Tropical Livestock Feed formulation	3	20	3
	ANN711	Bioenergetics	3	20	2
2012/2013	ANN 303	Principles of Animal Nutrition	3	1500	4
	ANN508	Non-Ruminant Animal Nutrition	3	75	3
	AGS 597	Seminar I	1	75	12
	AGS 598	Seminar II	1	75	12
	AGP 599	Project	4	4	1
	PDA715	Feed quality Control	3	4	1
	ANN705	Advances in carbohydrate and fat metabolism	3	35	2
	ANN706	Tropical Livestock Feed formulation	3	20	3
	ANN711	Bioenergetics	3	20	2
2013/2014	ANN 303	Principles of Animal Nutrition	3	1500	4
	ANN508	Non-Ruminant Animal Nutrition	3	475	3
	AGS 597	Seminar I	1	75	12
	AGS 598	Seminar II	1	75	12
	AGP 599	Project	4	6	1
	PDA711	Poultry Nutrition	3	7	1
	PDA715	Feed quality Control	3	4	1
	PDA726	Poultry feeds and feeding	2	10	1
	ANN705	Advances in carbohydrate and fat metabolism	3	25	2
	ANN706	Tropical Livestock Feed formulation	3	20	3
	ANN711	Bioenergetics	3	20	2
	ANN714	Advances Poultry Nutrition	3	20	2
2014/2015	ANN 303	Principles of Animal Nutrition	3	1500	4
	ANN508	Non-Ruminant Animal Nutrition	3	700	3
	AGS 597	Seminar I	1	75	12
	AGS 598	Seminar II	1	75	12
	AGP 599	Project	4	8	1
	PDA711	Poultry Nutrition	3	7	1
	PDA715	Feed quality Control	3	4	1
	PDA726	Poultry feeds and feeding	2	10	1
	ANN705	Advances in carbohydrate and fat metabolism	3	25	2
	ANN706	Tropical Livestock Feed formulation	3	20	3
	ANN711	Bioenergetics	3	20	2
	ANN714	Advances Poultry Nutrition	3	20	2
2015/2016	ANN 303	Principles of Animal Nutrition	3	1400	4

	ANN508	Non-Ruminant Animal Nutrition	3	750	3
	AGS 597	Seminar I	1	85	12
	AGS 598	Seminar II	1	85	12
	AGP 599	Project	4	9	1
	PDA711	Poultry Nutrition	3	3	1
	PDA715	Feed quality Control	3	3	1
	PDA726	Poultry feeds and feeding	2	5	1
	ANN705	Advances in carbohydrate and fat metabolism	3	15	2
	ANN706	Tropical Livestock Feed formulation	3	20	3
	ANN711	Bioenergetics	3	20	2
	ANN714	Advances Poultry Nutrition	3	20	2
2016/2017	ANN 303	Principles of Animal Nutrition	3	650	4
	ANN508	Non-Ruminant Animal Nutrition	3	750	3
	AGS 597	Seminar I	1	108	12
	AGS 598	Seminar II	1	108	12
	AGP 599	Project	4	10	1
	PDA711	Poultry Nutrition	3	3	1
	PDA715	Feed quality Control	3	3	1
	PDA726	Poultry feeds and feeding	2	5	1
	ANN705	Advances in carbohydrate and fat metabolism	3	26	2
	ANN706	Tropical Livestock Feed formulation	3	20	3
2017/2018	ANN 303	Principles of Animal Nutrition	3	650	4
	ANN508	Non-Ruminant Animal Nutrition	3	750	3
	ANN302	Feed Technology 1	2	100	3
	AGS 597	Seminar I	1	108	12
	AGS 598	Seminar II	1	108	12
	AGP 599	Project	4	10	1
	PDA711	Poultry Nutrition	3	3	1
	PDA715	Feed quality Control	3	3	1
	PDA726	Poultry feeds and feeding	2	5	1
	ANN705	Advances in carbohydrate and fat metabolism	3	26	2
	ANN706	Tropical Livestock Feed formulation	3	20	3
	APL811	Animal Welfare dynamics	2		
	APL806	Feed formulation and Feed milling Technology		25	2
	APL802	Poultry Nutrition and Organic Poultry Nutrition	2	25	2
2018/2019	ANN 303	Principles of Animal Nutrition	3	650	4
	ANN 306	Introduction to feed Technology I	3	120	2
	ANN508	Non-Ruminant Animal Nutrition	3	645	3
	ANN302	Introduction to Feed Technology	2	100	3
	ANN507	Feed Technology 1	2	100	4
	ANN508	Monogastric Animal Nutrition	3	600	3

ANN511	Commercial feed premixtures and premix production	2	85	2
ANN515	Nutrigenomics	2	45	4
AGS 597	Seminar I	1	110	14
AGS 598	Seminar II	1	110	14
AGP 599	Project	4	10	1
PDA711	Poultry Nutrition	3	3	1
PDA715	Feed quality Control	3	3	1
PDA726	Poultry feeds and feeding	2	5	1
ANN805	Advances in carbohydrate and fat metabolism	3	26	2
ANN806	Tropical Livestock Feed formulation	3	20	3
APL811	Animal Welfare dynamics	2		
APL806	Feed formulation and Feed milling Technology		25	2
APL802	Poultry Nutrition and Organic Poultry Nutrition	2	25	2

Total undergraduate students supervised to date 85

04 SPECIAL ASSIGNMENTS / COMMUNITY SERVICE

- 1) Member, College Board of Animal Science and Livestock Production, Sept., 2005 till date.
- 2) Member, Pig Management Technical Committee, - 2005 till 2009.
- 3) Member, Poultry Management Technical Committee, - 2005 till 2009.
- 4) Member, COLANIM Feed mill Committee, - 2006 to 2009, 2014 till date
- 5) Member, COLANIM Hatchery Committee – 2007 to 2009
- 6) Member, COLANIM Postgraduate Committee – 2007 till date
- 7) Member, Animal Nutrition Department Social Committee – 2005 till 2009
- 8) Member, Students Welfare Committee (SWEHOMAC)-2009 till 2012
- 9) Member, College Board College of Plant Science, , 2012 till date
- 10) Secretary, LOC Nigerian International Poultry Summit (NIPS, 2009)
- 11) Secretary LOC, African International Poultry Summit (AIPS, 2011)
- 12) Returning officer, Egbado South LGA 2011 General Election for Governorship and State Houses of Assembly
- 13) Centre Coordinator, 2011 Unified Tertiary Matriculation Examination (UTME)
- 14) Secretary, LOC, Nigeria International Poultry Summit (NIPS, 2013)
- 15) Member, College Board College of Plant Science and Crop Protection, Sept., 2012 till date.
- 16) Member, COLANIM-NIAS Induction Committee, 2014
- 17) Member, Post-graduate business committee, 2014 till date
- 18) Industry Liaison officer, World Bank Africa Centre of Excellence in Agriculture and Sustainable Environment, Federal University of Agriculture, Abeokuta, Nigeria, 2014 till date
- 19) Member, promotion and assessment panel DIETECs 2016 till date
- 20) Hall Warden, Male Hostel, Federal University of Agriculture, Abeokuta, Nigeria, 2017 till 2019
- 21) Chairman, Hostel Management Committee, Federal University of Agriculture, Abeokuta, Nigeria, 2017 till 2019
- 22) Secretary, Chapel of Grace, Federal University of Agriculture, Abeokuta, 2005 till date
- 23) Secretary, ASUU-UNAAB Multipurpose Cooperative Society, 2017 till date

- 24) Deputy Director, Centre of Excellence in Agricultural Development and Sustainable Environment (2017)
- 25) Congregation Representative on Senate, Federal University of Agriculture, Abeokuta, Nigeria, 2019
- 26) Member, Adhoc committee on student Union matters, December, 2019
- 27) Deputy Dean, Student Affairs Division, Federal University of Agriculture, Abeokuta, Nigeria, 2020

05 TRAINING PROGRAMMES ATTENDED WITH DATES

- 1) Certificate Workshop on University and tertiary education teaching, Innovative teaching University of Copenhagen, Denmark, December, 2018
- 2) Workshop on modern Learning Technologies On the 21st Century Instructional methods, tools and Techniques, Federal University of Agriculture, Abeokuta and the Excel educational global consult, Texas, Houston, USA. 13-17 August, 2018.
- 3) International workshop on climate change, Federal University of Agriculture, Abeokuta and the Galilee International Management Institute, Israel, 6-10 August, 2018.
- 4) Mandatory Continue Professional Education Training (MCPE) for registered Animal Scientists in Nigeria organized by Nigeria Institute of Animal Science (NIAS), on Livestock Business Financing, "Farm to export"-Regulations and requirements in export of livestock products at Nigeria Air Force (NAF) Conference Centre, Ahmadu Bello Way, Kado, Abuja on September, 11th 2017.
- 5) Workshop on innovative teaching and learning, fundraising and gender balance in education conducted between 13th – 17th March, 2017 at Benue State University, Markurdi, Benue State, Nigeria.
- 6) Workshop on Advanced Techniques in poultry Nutrition research conducted Between 12 and 17th February, 2017 by Centre of Excellence in Agricultural Development and Sustainable Environment, Federal University of Agriculture, Abeokuta, Nigeria.
- 7) Mandatory Continue Professional Education Training (MCPE) for registered Animal Scientists in Nigeria organized by Nigeria Institute of Animal Science (NIAS), on Concept note and grants writing and Standards in the Livestock industry in Nigeria, September, 7, 2015
- 8) Mandatory Continue Professional Education Training (MCPE) for registered Animal Scientists in Nigeria organized by Nigeria Institute of Animal Science (NIAS), on Risk Analysis and Animal Pharmacodynamics, September, 8, 2014.
- 9) Workshop for Advanced Digital Appreciation programme for tertiary institutions conducted between 3-7 March, 2014 by Academic Planning Unit Federal University of Agriculture, Abeokuta, Nigeria.
- 10) Workshop on statistical analysis and Data management conducted between 10th and 12th April, 2013 by Federal University of Agriculture, Abeokuta Universal Conservices limited (FUCONS, Limited).

- 11) Workshop on fund sourcing, proposal writing and project management conducted between 3rd and 5th December, 2012 by Directorate of Grants Management, Federal University of Agriculture, Abeokuta, Nigeria.
- 12) Workshop on Molecular Cloning and Genotyping conducted by the Biotechnology Centre, Federal University of Agriculture, Abeokuta, between 12th – 17th August, 2012.
- 13) Workshop on microtracer technology and its application in the feed industry conducted by Nigeria Institute of Animal Science (NIAS) in the Department of Animal Science, University of Ibadan (UI) between 17th -18th October, 2012
- 14) Training on e-learning facility for teaching in tertiary Institution on Nigeria by National Universities Commission (NUC) facilitated by ICTREC, FUNAAB, March 26-28 2012.
- 15) Mandatory Continue Professional Education Training (MCPE) for registered Animal Scientists in Nigeria organized by Nigeria Institute of Animal Science (NIAS), on Animal production in National transformation Agenda, policy, planning and Animal husbandry fundamentals, computer in Animal Agriculture and understanding codex Alimentarius, September 10, 2012.
- 16) Mandatory Continue Professional Education Training (MCPE) for registered Animal Scientists in Nigeria organized by Nigeria Institute of Animal Science (NIAS), on Poultry Health, Financial Accounting and feasibility Studies and domestic biogas production May 5, 2011.
- 17) Mandatory Continue Professional Education Training (MCPE) for registered Animal Scientists in Nigeria organized by Nigeria Institute of Animal Science (NIAS), Kano, Kano State July 27, 2010.
- 18) Electronic Library resources training workshop on Research for life and TEEAL programmes conducted November 15th – 17th 2010 at the University of Port Harcourt, Nigeria. The training was offered under the leadership of the United Nations Food and Agriculture Organization and World Health Organization in partnership with the Institute of Development studies (UK), Cornell University's Albert R. Mann Library (USA) and Information training and outreach centre for Africa (ITOCA) South Africa. **06**

06 COMMENDATION

- 1) Letter of commendation from Registrar on behalf of Vice-Chancellor for assisting the University attain international accreditation of programmes (First in any public University in Nigeria) at the Centre of Excellence in Agricultural Development and Sustainable Environment, FUNAAB, 2020
- 2) Letter of Appreciation from Registrar on behalf of the Vice-Chancellor for representing the University well with credible performance at the Nigerian Raw Materials (NIRAM) CAVAIL-FUNAAB Exhibition held at Landmark Event Centre, Victoria Island Lagos from 13th to 15th March, 2018.
- 3) Letter of commendation from Registrar on behalf of Dean, Postgraduate school and Board of post graduate school for working assiduously to clear the backlog of abstracts of postgraduate students (both Masters and Ph.D), 2015
- 4) Letter of commendation from the Vice-Chancellor on successful production of specially –Bred Jumbo Turkey for 2012 Christmas and end of the year Seasons, April 2013.

5) Letter of commendation from management of University of Agriculture Abeokuta for making the University proud in Nigeria University Doctoral thesis award scheme 2007-2010.

6) Letter of commendation from acting Head of Department, department of animal nutrition for contribution to the timely completion of examination results and progress of the department in 2008/2009 session

07 MEMBERSHIP OF PROFESSIONAL BODIES

1. Nigerian Society for Animal Production, 2003 till date
2. Animal Science Association of Nigeria 2001 till date
3. World Poultry Science Association (Nigeria Branch) 2001 till date
4. Nigerian Institute of Animal Science
5. Nutrition Society of Nigeria 2005 till date
6. Poultry Science Association, USA, 2014 till date
7. African Poultry Network, 2014 till date

08 RESEARCH INTEREST OR COMMISSIONED PROJECTS

1. Poultry production and Management system.
2. Feeding value of crop and animal wastes for non-ruminant animals.
3. Cashew nut reject meal and cassava root peels in the diets of poultry
4. Nutritional and Management intervention in heat stress reduction for poultry.
5. Additives for quality improvement of feed.
6. Enzymes in Poultry and swine Nutrition
7. Feed Biotechnology and metabolomics
8. Feed milling and technology
9. Vitamins from Organic and inorganic sources for sustainable poultry nutrition

09 PUBLICATIONS

A Dissertation/ Thesis

1. **Fafiolu, A. O.** (2000): Utilization of enzyme supplemented Shrimp waste meal based diets by growing pullets. B. Agric. Project, University of Agriculture, Abeokuta, Nigeria. 68pages.
2. **Fafiolu, A. O.** (2003): Utilization of Malted Sorghum Sprout by starting and growing pullets. M. Agric. Dissertation, University of Agriculture, Abeokuta, Nigeria. 79pages
3. **Fafiolu, A. O.** (2008): Utilization of enzyme supplemented undecorticated sunflower seed by domestic chickens. PhD. Thesis, University of Agriculture, Abeokuta. 194 pages.

B Articles in Learned Journals:

- 1^F **Fafiolu, A. O., Oduguwa, O.O., Ikeobi, C. O. N and Onwuka, C. F. I.** (2006): Utilization of malted sorghum sprout in the diet of rearing pullets and laying birds. ***Archivos de Zootecnia***. 55 (212)

- 361-371. Published by Universidad de Cordoba, Spain Available Online: http://www.uco.es/organiza/servicios/publica/az/php/img/web/10_11_46_04UtilizationFafiolu.pdf
Spain
- 2 Idowu, O. M. O., Idowu, A. O., Oso, A. O., **Fafiolu**, A. O. Sule, R., Sorongbe, A. and Eruvbetine, D. (2006): Performance of laying hens fed cassava root wastes. *Nigerian Poultry Science Journal*. 4: 48-55. Published by World's Poultry Science Association, Nigeria Branch. Available Online: www.ajol.info/index.php.npsj
- 3^F **Fafiolu**, A. O. Oduguwa, O.O., Bamgbose, A.M., Oso, A. O, Isah, O.A., Olatunji, J.E.N and Jegede, A.V (2006). Feeding value of Mango (*Mangifera indica*) leaf for growing rabbits. *Journal of Animal and Veterinary Advances*. 5, 800-804. Published by Scientific Research Publishing Company. Available online: <http://www.medwellonline.net> **Pakistan**
- 4 Sobayo, R. A., Oguntona, E. B. Adeyemi, O. A. **Fafiolu**, A. O. Oso, A. O., Osinowo, A. O., Eruvbetine, D and Bamgbose, A. M. (2008). Effect of Ascorbic Acid Supplementation on the performance, Cost Benefit, Egg quality and Haematological profile of Laying Birds in Humid Environment. *Nigerian Poultry Science Journal*. 5 (2): 53-60. Published by World's Poultry Science Association, Nigeria Branch. Available Online: www.ajol.info/index.php.npsj
- 5 Jegede, A. V., **Fafiolu**, A. O., Falaye, O. J and Oduguwa, O. O. (2008): Utilization of diets containing malted sorghum sprout (MSP) by growing rabbits. *ASSET* 8 (2): 110-117. Published by Federal University of Agriculture, Abeokuta, Nigeria. Available Online: www.unaab.edu.ng/journal/index.php/SeriesA/article/download/53/57
- 6 Yusuf, K. O., Bamgbose, A. M., Oso, A. O., **Fafiolu**, A. O and Oni, A. O. (2008): Nutritional evaluation of Baobab (*Adansonia digitata*) seed meal with rats. *ASSET* 8 (2) 226-231. Published by Federal University of Agriculture, Abeokuta, Nigeria. Available Online: www.unaab.edu.ng/journal/index.php/SeriesA/article/download/86/90
- 7 Jegede, A. V., **Fafiolu**, A. O., Oso, A. O. Sodeinde, O. D. Odewale, T. O. and Oduguwa, O. O. (2010): Comparative effect of organic and inorganic copper supplemented diets on performance and blood characteristics of growing Rabbits. *Nigerian Journal of Animal Production*. 37 (2): 190-198. Published by World's Poultry Science Association, Nigeria Branch. Available Online: www.ajol.info/index.php.npsj
- 8 **Fafiolu**, A. O., Jegede, A. V., Oso, A. O., Sobayo, R. A. and Idowu, O. M. O. (2010): Utilization of enzyme supplemented wheat offal-rice bran based diets on performance characteristics and serum biochemistry by meat-type chicken. *Nigerian Journal of Animal Production*. 37 (2): 199-206. Published by Nigerian Society for Animal Production Available Online: www.ajol.info/index.php.npsj
- 9^F Peters, S. O., Idowu, O.M.O., Agaviezor, B.O., Egbede, R. O. and **Fafiolu**, A.O. (2010). Genotype and Sex Effect on Gastrointestinal Nutrient Content, Microflora and Carcass Traits in Nigerian Native Chickens. *International Journal of Poultry Science*. 9 (8): 731-737, 2010. Published by Asian Network for Scientific Information. Available Online: <http://www.pjbs.org/ijps/fin1761.pdf>
Pakistan
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ii **JOURNAL ARTICLE ACCEPTED FOR PUBLICATION**

Nil

iii **BOOKS** **Nil**

iv **BOOK ARTICLE OR CHAPTER** **Nil**

v **EDITED CONFERENCES** **Nil**

iv **TECHNICAL REPORT**

FAO. 2020. *Environmental performance of feed additives in livestock supply chains – Guidelines for assessment Version 1*. Livestock Environmental Assessment and Performance Partnership (FAO LEAP). Rome. <https://doi.org/10.4060/ca9744en> (The authors are Ermias Kebreab (chair, University of California, Davis, United States of America), Chaouki Benchaar (co-chair, Agriculture and Agri-Food Canada), Philippe Becquet (Regulatory Strategy Adviser, France),

Abdulrasak Ige Badina (University of Leeds, United Kingdom), Armin Towhidi (University of Tehran, Islamic Republic of Iran), Aurelie Wilfart (National Institute for Agricultural Research – INRA, France), Clandio Favarini Ruviano (Federal University of Grande Dourados, Brazil), Colm Moran (Alltech, Ireland), Gunilla Eklund (Food and Agriculture Organization of the United Nations – FAO, Italy), **Fafolu Adeboye Olusesan (Federal University of Agriculture, Abekuta, Nigeria)**, Heinz Stichnothe (Institute of Agricultural Technology, Thünen Institute, Germany), Herve Juin (INRA, France), Ildiko Edit Tikasz (Research Institute of Agricultural Economics, Hungary), Joop de Knecht (National Institute for Public Health and the Environment, the Netherlands), José Velazco (National Institute of Agricultural Research, Uruguay), Laurence Shalloo (Agriculture and Food Development Authority – Teagasc, Ireland), Michael Binder (Evonik Nutrition & Care GmbH, Germany), Mingjia Yan (University College Dublin, Ireland), Mojtaba Zaghari (University of Tehran, Islamic Republic of Iran), Nicolas Martin (Ajinomoto Animal Nutrition Europe, France), Patrick van Beelen (National Institute for Public Health and the Environment, the Netherlands), Rob Kinley (Commonwealth Scientific and Industrial Research Organisation – CSIRO, Australia), Vyas Diwakar (University of Florida, United States of America), Wang Liwen (Ministry of Agriculture and Rural Affairs, China), Jude Bond (Department of Primary Industries, New South Wales, Australia), and Yuan Yao (North Carolina State University, United States of America).

EXTENSION ACTIVITIES

Resource Person, World Food day, Organised by the World’s Poultry Science Association in partnership with Agricultural Media and Resources and Extension Centre (AMREC), University of Agriculture, Abeokuta. I organized on-farm training in poultry management for invited secondary schools from Ogun, Oyo and Lagos States, at the University of Agriculture Abeokuta, Ogun State, Nigeria, August, 2008.

Resource Person, World Food day, Programme organized by the world’s poultry Science Association, Nigeria Branch in Partnership with Lagos State Teaching Service Commission (TESCOM), Lagos State. The one day event was aimed at generally arousing the student’s interest in Agriculture and specifically Poultry Production at the Women Development Centre, Pen Cinema, Agege, Lagos State, July, 2009.

Resource Person, World Food day, Poultry Waste to wealth Workshop organized by the world’s poultry Science Association, Nigeria Branch to educate farmers on how to turn poultry waste into useful products at Faniyi Farms, Igbesa Ogun State, July 2010.

Resource Person, One farm to feed seven billion, Importance of good nutrition in the survival of the poultry industry in Nigeria, The workshop was aimed at improving awareness about poultry as a business and importance of feed additives for optimal chicken growth at Kwara Hotels, Ilorin Kwara State, May, 2015

Resource Person, World Food day, Qualities and performance of Day old Chicks organized by Poultry Association of Nigeria. The workshop was aimed at educating farmers and farms on qualities of day old chicks and implication of early Nutrition at Sir Kessinton Adebutu Civic Centre, Ilisan Remo, Ogun State, April 2017

Resource Person, Technical Presentation on Feed Crisis in Nigeria and the way out at Obasanjo Holdings, Farm Open day April 2017 at Olusegun Obasanjo Presidential Library, Ogun State

Resource Person, Technical Presentation on use of Phytochemicals in Poultry Diets. The workshop farmers field day. Tefund Research group and Farmers open day at College of Animal Science and Livestock Production, FUNAAB, July 28, 2020

E. RESEARCH IN PROGRESS

- i. Utilization of Shrimp Waste Meal by Exotic and Nigerian Indigenous Turkeys (On going)
- ii. Enzyme supplementation of different carbohydrate sources by meat-type chickens (On going)
- iii. Multi enzyme supplementation of malted sorghum sprout based diet by broiler chicken (On going)
- iv. Use of phytochemicals as feed additives in poultry rations (On going)
- v. Use of orange flesh sweet potato in broiler ration (On going)
- vi. Utilisation of chelated organic acid in diets for turkeys and broilers (On going)

10. INFORMATION ON FELLOWSHIP, MASTER'S PROJECT AND Ph.D. THESIS SUPERVISED

(A) Master's dissertation and PhD thesis

S/№	Name of Student	Year	Degree	Title of Project	Remark
1.	Balogun , Gbemisola (Miss)	PG 06/0076	M. Agric.	Socio-economic analysis of household consumption of selected poultry products in Lagos state, Nigeria	Co-Supervisor Defended
2.	Jamiu-Azeez , S. (Mrs)	PG 07/0094	M. Agric.	Utilization of processed cassava leaf and cassava peel supplemented with enzyme by broiler chickens	Co-supervisor Defended
3.	Banjo , A .E. (Miss)	PG 06/0056	M. Agric.	Effects of Phytase supplementation on the utilization of defatted sesame meal based diet by growing rabbits	Co-supervisor Defended
4.	Fasae , O. C. (Mrs)	PG 05/0120	M. Agric.	The effect of beak trimming and feed placement on the performance, haematological parameters and carcass characteristics of turkey poults	Co-supervisor Defended
5.	Okumuyide , O.T	PG 06/0327	M. Agric.	Utilization of Copper sulphate by organic broiler finisher	Co-supervisor Defended

6.	Bamidele, S. A	PG 08/0055	M. Agric.	Effect of Copper sulphate and probiotics as feed additives on laying performance, gut microflora, residues in products and cholesterol status of laying hens	Co-Supervisor Defended
7.	Ogunade, I. M.	PG09/0065	M. Agric	Salmonella in hatching pullet eggs from selected states in south-west Nigeria and its control through use of feed additives	Co-Supervisor Defended
8.	Olarotimi, I. D.	PG11/0146	M. Agric	Performance, Digestibility and haematological profile of broiler chickens fed multi-enzyme supplemented malted sorghum sprouts based diets	Major Supervisor Defended
9	Ajayi Olufemi	PG11/0124	M. Agric	Molecular evaluation of IGF-II genes in birds fed enzyme supplemented MSP based diets.	Major Supervisor Defended
10	Adenaike, A. S.	PG09/0002	PhD Animal Biotechnology	Genetical Genomics of Coccidiosis resistance in the Nigerian Indigenous Chickens	Co-Supervisor Defended
11	Idowu, O. R.	PG10/0078	M. Agric	Response of broiler chickens to quantitative feed restriction with or without enzyme supplementation	Co-Supervisor Defended
12	Ayoola, Tolulope Oyeyemi	PG10/0008	M. Agric	CGH gene marker polymorphism associated with growth in improved di-hybrid indigenous broiler	Co-Supervisor Defended
13	Oladaids, Abiodun	PG11/0145	PhD Monogastric Animal Nutrition	The use of organic acid as growth promoter and anti-microbial agent in commercial broiler	Co-Supervisor On-going
14	Popoola, Moyosore A.	PG11/0021	M. Agric	Genetic Characterization of indigenous and exotic duck population with microsatellite markers	Co-Supervisor Defended
15	Irivboje, Young	PG11/0013	M. Agric	Bioinformatic analysis of interferon Alpha, Beta and Gamma in trypanosusceptible sokoto Gudali and white Fulani Nigerian cattle breeds.	Co-Supervisor Defended
16	Odunewu, A. E	PG11/0140	M. Agric	Development of organic vitamins and trace mineral premix for broiler	Co-Supervisor Defended
17	Alabi, Joel O	PG12/0141	M. Agric	Feed value deterioration of selected proprietary finished feeds and their implications in the nutrition of broiler chickens	Major Supervisor Defended

18	Otakoya, Oluwaseyi I	PG12/0147	M. Agric	The effect of early feeding on growth performance, GIT development, Digestibility, Haematology and Immune response of two strains of broiler	Co-Supervisor Defended
19	Akinfenwa, Mofoyeke Oluwayemisi	PG12/0122	M. Agric	Gene regulatory motif identification in mammalian livestock species using bioinformatics tools	Co-Supervisor Defended
20	Olatunji, Damilare A.	PG12/0029	M. Agric	Effects of different phytobiotics species on pre and post weaning performance of piglets	Co-Supervisor Defended
21	Ajao, Olaniyi S	PG12/0139	M. Agric	Effect of Organic acid supplemented to drinking water on the performance, carcass characteristic, haematological indices and bone breaking strength of growing turkeys	Major Supervisor Defended
22	Ojo, Olufunmilayo	PG13/0126	M. Agric	Interaction between protease enzyme and essential oils on the performance of broiler chickens	Major Supervisor Defended
23	Dada, Ife Dami	PG11/0146	PhD Monogastric Animal Nutrition	Influence of multi-carbohydrase on the utilization of palm kernel meal on performance, nutrient digestibility and gut morphology of broiler chickens	Major Supervisor Defended
24	Tona, Kwassi	PG 13/0845	M. AgSE	Response of broiler chickens to dietary palm kernel meal supplemented with multi-carbohydrase	Major Supervisor Defended
25	Godwin, Goodness	PG 14/0903	M. Agric	Evaluation of selected phyto-genic-fortified diets on growth, health status and carcass yield of broiler chickens	Major Supervisor Defended
26	Olanloye, Silifat	PG08/0052	PhD Monogastric Animal Nutrition	Utilisation of Cassoya Feed concentrate in diets of broiler Chickens	Major Supervisor Defended
27	Alabi, Joel O	PG15/0704	PhD Avian Molecular Biology	Influence of supplemental l-threonine on growth, carcass yield, immune status and IGF-1 gene expression broiler chickens	Major Supervisor Defended
28	Adeniji Oluremi	PG15/0322	PhD Monogastric Animal Nutrition	Response of Nigeria Improved indigenous Chickens to diets containing black soilder fly meal and implication of exogenous enzyme.	Major Supervisor On-going

29	Ayoola Abiodun	PG15/0239	M. AgSE	Effect of supplemental inorganic and organic chelated Zn, Cu and Mn on performance, nutrient utilization, carcass yield and gut morphology of broiler chickens	Major Supervisor Defended
30	Ademolue, Oluwatoyin Racheal	PG 13/0457	M. Agric	Response of rabbit to diets containing graded levels of turmeric (<i>Curcuma longa</i>) powder	Co-Supervisor Defended
31	Abolude, Tomilola	PG13/0046	PhD Animal Biotechnology	Genomics of salmonella tolerance in Nigeria local chickens	Co-Supervisor Defended
32	Oladipo Olukayode A	PG15/0227	M. Agric	Influence of supplemental L-threonine supplementation on growth, immune status and carcass yield of broilers	Major Supervisor Defended
33	Ismaila, Olaide O	PG 14/0917	M. Agric	Sequence analysis of Insulin-like growth factor 1 gene in Nigeria indigenous and Arbor Acre chickens	Co-Supervisor Defended
34	Ariyo, Oluwatomide W	PG 14/0091	M. Agric	Effect of supplemental inorganic and organic chelated Zn, Cu and Mn on egg production and quality using layers in late lay	Co-Supervisor Defended
35	Teniola, A. A	PG 13/0797	M. AgSE	Bioavailability and utilisation of copper from inorganic copper source and organic chelated copper source in broiler chickens	Major Supervisor Defended
36	Adjimoti, Jerome I	PG 15/0652	M. AgSE	Economic analysis of adaptation strategies to climate change in rural fishing communities of mono (Republic of Benin)	Co-Supervisor Defended
37	Orimogunje, A. A.	PG13/0797	PhD Monogastric Animal Nutrition	Utilization of chelated organic Cu, Zn, Mn in the diets of rearing and laying birds	Major Supervisor On-going
38	Baldeh, Yaya	PG 17/0648	M. AgSE	Compact fluorescent light clours: Effects on performance and growth of FUNAAB Alpha Chickens	Co-Supervisor Defended
39	Oso, Oluwadamilola	PG 16/0425	M. AgSE	Comparative behavioral studies of broiler birds raised under different light sources	Co-Supervisor Defended
40	Ajeigbe, Olusegun Michael	PG 13/0361	M. Agric	Egg laying performance, egg quality, haematological and serum biochemistry of indegenious layers fed diets containing <i>Mondai whitei</i> (white ginger)	Co-Supervisor On-going

41.	Akutubuola, Nifesimi Ilerioluwa	PG 16/0178	M. Agric	Investigating Toll-like receptor 4 gene polymorphisms and immunological traits in Nigerian indigenous chickens challenged with attenuated salmonella	Co-Supervisor Defended
42	Ajewole, Ajoke Oyenike	PG 16/0304	M. Agric	Growth performance and analyses of Leptin receptor (LEPR) gene of exotic and local turkeys	Co-Supervisor Defended
43	Oladipo Olukayode A	PG15/0227	PhD Monogastric Animal Nutrition	Use of natural acids for improved performance of broiler chickens	Major Supervisor On-going
44	Tona, Kwassi	PG 13/0845	PhD Monogastric Animal Nutrition	In ovo administration of organic selenium in broiler diets	Major Supervisor On-going
45	Godwin, Goodness	PG 14/0903	PhD Monogastric Animal Nutrition	Response of domestic chickens to diets differing in phytochemicals	Major Supervisor On-going
46	Ajewole, Ajoke Oyenike	PG 16/0304	PhD Animal Biotechnology	Relationship between CD14 growth and immune traits in local and exotic turkeys	Co-Supervisor On-going
47	Ayorinde, Oluwasola Sarah	PG 13/0081	PhD Monogastric Animal Nutrition	Response of broiler Chickens fed diets containing different graded levels of White and Red Sorghum supplemented with exogenous Tannase.	Co-Supervisor On-going
48	Irivboje, Young	PG11/0013	PhD Animal Biotechnology	Bioinformatic analysis of interferon Alpha, Beta and Gamma in trypanosusceptible sokoto Gudali and white Fulani Nigerian cattle breeds.	Co-Supervisor Defended
49	Akinfenwa, Mofoyeke Oluwayemisi	PG12/0122	PhD Animal Biotechnology	Gene regulatory motif identification in mammalian livestock species using bioinformatics tools	Co-Supervisor On-going
50	Lateef, Folasade Zaynab	PG 18/0210	M. Agric	Comparative efficacy of varying quantities of phytochemicals blends in diets for broiler chickens	Major Supervisor On-going
51	Aderibigbe Adedoyin Elizabeth	PG 18/0224	M. Agric	Influence of Phytochemical feed additives on performance, N-digestibility and blood constituents of broiler chickens	Major Supervisor On-going
52	Olopade Christianah Oluwayomi	PG 17/0028	M. Agric	Performance, expressions of growth and immune related genes of turkeys fed diets supplemented with selenium yeast and vitamin E	Co-Supervisor On-going

53	Kareem, Simbiat Oluwabusayo	PG 17/0421	PhD	Response of broiler chickens to in ovo and post hatch feeding of varying aqueous extract of oyster mushroom (<i>Pleurotus ostreatus</i>)	Co-Supervisor On-going
54	Olusegun, Olawumi Boladale	PG 18/0244	M. Agric	Response of broiler Chickens to diets containing White Sorghum supplemented with or without Tannase	Co-Supervisor On-going
55	Ogunola, Kolade Monsur	PG 17/0005	M. Agric	Response of broiler chickens to diets of different nutritional planes supplemented with or without organic acids	Co-Supervisor On-going

11. MAJOR CONFERENCES AND WORKSHOPS ATTENDED WITH DATES:-

1. 43rd Annual Conference of Nigeria Society for Animal Production (NSAP) held between 18th to 22nd March, 2018 New SAAT Auditorium, Federal University of Technology Owerri, Imo State, Nigeria.
2. Sixth Animal Science Association of Nigeria-Nigeria Institute of Animal Science Joint Annual Meeting held between 10th to 14th September, 2017 at NAF Conference, Ahmadu Bello Way, Kado, Abuja, FCT, Nigeria
3. Sixth Nigeria International Poultry Summit held between 10th to 12th July, 2017 at Mimaya Event Centre, Kudirat Abiola way Oregun Lagos State, Nigeria.
4. Fifth Nigeria International Poultry Summit held between 10th to 14th May, 2015 at Main Auditorium, Ilorin Kwara State, Nigeria.
5. Poultry Science Association annual conference held between 22nd to 25th July, 2013 at Town and Country Resort and Convention Centre in San Diego, California, USA.
6. Second Organic Animal Husbandry Conference held between 12th to 14th September, 2012 at Hamburg/Trenthorst, Germany.
7. International Biotechnology symposium, Covenant University 2011. Theme: Agro-biotechnology and attainment of food security in Africa held between 12th – 14th April, 2011.
8. 44th Conference of Agric Society of Nigeria. LAUTECH 2010. Theme: Re-Strategizing Nigerian Agriculture in a rapidly changing
9. The 36th Annual conference of Nigeria Society for Animal Production held at University of Abuja, Federal Capital Territory, Abuja, Nigeria, March 14-16th, 2011.
10. The first African International Poultry Summit of World's Poultry Science Association held at University of Agriculture, Abeokuta, Nigeria, February 20-24th, 2011.
11. The 15th Annual Conference of Animal Science Association of Nigeria held at University of Uyo, Akwa Ibom State, Nigeria, September 13-16, 2010.
12. The 14th Annual Conference of Animal Science Association of Nigeria held at Ladoke Akintola University of Technology, Oyo State, Nigeria, September 14-17, 2009.
13. The 3rd Nigeria International Poultry Summit (NIPS) held at Dheb Michael Events and Halls, Abeokuta, Ogun State, Nigeria, February 22-26, 2009.
14. The 13th Annual Conference of Animal Science Association of Nigeria held at Ahmadu Bello University, Zaria, Kaduna State, Nigeria,. September 15-19, 2008

15. The 33rd Annual Conference of the Nigerian Society for Animal Production (NSAP) held at the College of Agricultural Sciences, Olabisi Onabanjo University, Yewa Campus, Ayetoro, Ogun State, Nigeria, March 16-20, 2008.
16. The 12th Annual Conference of Animal Science Association of Nigeria held at Obafemi Awolowo University, Ile-Ife, Nigeria, September 10-13, 2007.
17. The 32nd Annual Conference of the Nigerian Society for Animal Production (NSAP) held in Calabar, Nigeria, March 18-22, 2007.
18. The 2nd Nigeria International Poultry Summit (NIPS) held at Gateway Hotel, Abeokuta, Ogun State, Nigeria, February 19-22, 2007.
19. Training Workshop on Grant- Winning Research Proposal organized by Research and Development Centre of the University of Agriculture, Abeokuta, Nigeria, January 4 – 6, 2006.
20. Awareness Training Workshop organized by the Nigeria Agriculture Biotechnology Project held at Adesba International Hotels, Abeokuta, Nigeria, December 15, 2005.
21. The 1st Nigeria International Poultry Summit (NIPS) held at Temperance Hotel, Ota, Ogun State, Nigeria, February 20-25, 2005.

12 EXTRA CURRICULA ACTIVITIES

1. Member, Local Organising Committee, 9th Annual Animal science Association of Nigeria Conference (UNAAB, September, 2001)
2. Secretary, Chaplain in Council, Chapel of Grace, University of Agriculture, Abeokuta Lectors Association, 2007 till date.
3. Member, ministerial committee, Chapel of Grace, University of Agriculture, Abeokuta, Nigeria, 2005 till date.
4. Secretary, World's Poultry Science Association, Nigeria Branch, 2007 till date
5. Member, Local Organizing Committee, 1st Nigeria International Poultry Summit (NIPS) held at Temperance Hotel, Ota, Ogun State, Nigeria, February 20-25, 2005.
6. Member, editorial team – 2nd Nigeria International Poultry Summit held at Gateway Hotels, February 2007.
7. Member, Local Organizing Committee, 3rd Nigeria International Poultry Summit (NIPS) holding at DHEB Michaels Hotel, Ogun State, Nigeria, February 20-25, 2009.
8. Secretary, Local Organizing Committee, African International Poultry Summit (UNAAB, February, 2011)
9. Member, Local Organising committee, National Conference, Nigeria Society for Animal Production (42nd Annual Conference, Abeokuta 2016).
10. Member, Local Organising committee, 6th Nigeria International Poultry Summit holding at Nimaya Event Centre, Oregun Lagos. July 11th and 12th, 2017.
11. Member, Local Organising committee, National Executive meeting of Academic Staff Union of Universities (ASUU), Federal University of Abeokuta, October, 2019.

13. REFEREES:

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01 Sept, 2021

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Signature

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Date

RESEARCH FOCUS AND CONTRIBUTION TO KNOWLEDGE

Everything that an animal feed on, takes in and utilises for physiological processes is what we term nutrition. For any animal to carry on its necessary life functions, as well as to grow and be able to produce food for humans, there are specific chemical compounds that must be in their diet in the right amounts. This is because no animal is capable of producing every one of the necessary components on its own. The study of nutrition is about understanding that there is no "perfect" food, or no one ingredient that contains every nutrient an animal needs in the exact concentrations it needs it. Providing the right nutrition for monogastrics (poultry, rabbits and pigs) means ensuring that what they eat supplies all of the essential amino acids, fatty acids, carbohydrates, vitamins, minerals, and water that they will need to produce the meat or eggs you hope to collect. There is therefore the need for radical changes in the feed industry to optimize production in Nigeria especially in monogastric animal production including poultry, rabbit and pigs. These changes require the use of innovations in efficient utilisation of available feed resources.

The overall objective of my research is improving the economic, environmental and societal sustainability of the Livestock industry especially monogastrics through the development of feeding programme and ingredients which improve growth, health and welfare at all rearing stages. My efforts have been on further understanding of the primary sources (carbohydrate, protein, fat, minerals and vitamins) of feed materials, their evaluation using poultry, rabbits and pigs and finding suitable alternatives in the following areas :

Evaluation of feed resources

In conjunction with other researchers, I have been able to evaluate the nutritive value of some unconventional feed resources available. These feed resources included Malted sorghum sprout (Papers 1, 5, 17, 22, 47, 54, 74, 75 and 76), Shrimp waste meal (Papers 35 and 50), Undecorticated sunflower seed meal (Papers 28, 41, 42, and 86), Cassava root meal (Papers 10), Rice bran (Paper 8), Palm kernel extraction by-products (Papers 41 and 114), Baobab seed meal (Paper 6), Sorghum and Sorghum milling waste (Paper 12), Whole millet (Paper 32) , Instant noddles wastes (Paper 15), Wheat and Ethanol treated castor oil (Paper 21), among others. Our publications have highlighted the chemistry of the various alternative feed ingredients so identified and we have proposed various ways of combatting the

negative effects of bioactive materials identified in them. Studies on the utilisation of Malted sorghum sprouts have been performed on pullet chicks (Paper 47), laying hens (Paper 1), pigs (Paper 22) and rabbits (Paper 5) and its utilisation on performance assessed. These series of studies have formed the basis for other works in FUNAAB and elsewhere.

Use of inorganic and organic copper in poultry diets

Trace minerals carry out key functions in relation to many metabolic processes mostly as catalyst for enzymes and hormone and are essential for optimum health, growth and productivity. However, the use of high inorganic copper (Cu) in poultry diets have led to accidental Cu poisoning, also inorganic minerals form insoluble complexes with other dietary agents resulting in low absorption. This usually had poor retention and high excretion rates when inorganic mineral salts are used (Papers 7,13, 44, 46, 48, 80 and 84). Our efforts have shown that the use of organic trace minerals ensures a more bioavailable minerals derived from chelates (Papers 18 and 39). Chelation allow a lower supplementation rates of trace minerals with an equivalent and improved effect on animal health, growth and productivity. Our data suggested that unlike inorganic Cu, organic Cu Chelates exhibit higher absorption rate and accumulation in organs and other tissues where they are necessary for utilization (Paper 60). We have also demonstrated that trace mineral chelates containing copper, zinc and manganese work in synergy with supplemental riboflavin and/or pyridoxine (Papers 44, 46 and 48)

Utilisation of enzyme, multi-enzyme and other feed additive to optimize feed ingredients

Our understanding of lesser-known feedstuffs revealed that they contained several non-starch polysaccharides (NSPs) and anti-nutritive factors which reduces digestibility and utilisation. Series of studies (Papers 8, 20, 28, 35, 42, 54, 76, 81, 82, 86, 88, 94, 98, 99, 103, 105, 107, and 114) were conducted to demonstrate the utilisation of feed ingredients using exogenous enzymes. In this case we have postulated and showed that addition of fibrolytic enzyme conferred beneficial influence on feed ingredients using poultry birds. Our data had documented the effectiveness of feed enzyme in breaking polymeric chains of NSPs and hence improve the nutritive value of fibrous feedstuffs. Due to the chemical structure of plant cell wall matrix, a combination of enzyme cocktail has been recommended to enhance depolymerisation of NSPs. Studies (Papers 14, 25, 29, 31, 43, 51, 79, and 80) on the use of L-carnitine (β -hydroxyl δ -trimethylamino butyrate) to enhance the transfer of long-chain fatty acid from the cytoplasm to the mitochondrial matrix for enhanced β -oxidation and energy production have been

conducted. Our data showed better growth response with corresponding higher carcass yield. Also, we have demonstrated a higher percentage reduction in salmonella colonisation of egg yolk and droppings using feed additive like mannose oligosaccharide and Arabinoxylan oligosaccharide (Paper 19). My research efforts have also led to reduction in meat, plasma and egg cholesterol using series of feed ingredients and additives (Papers 4, 10, 13 and 18).

I have also align my research efforts to emerging science most especially with the emergence of biotechnology and *omics*. We have demonstrated that discriminant analysis can be employed for the evaluation of coccidiosis resistance in chickens (Paper 62), existence of polymorphisms for HSP90AA1 gene in two exotic layer chicken strains (Paper 65) and use bioinformatics to analyse the kappa casein gene in livestock species (Paper 91). *In-ovo feeding* (IOF), a technique of injecting exogenous nutrient solutions into the amnion of the late-term avian embryos, has been conducted as a satisfactorily feasible approach for early nutrition of poultry, our efforts had demonstrated that the technique had proven to be effective feeding strategy for broiler post-hatch (Papers 51, 61, 112). Critical examination of issues around feed safety (Papers 57 and 58) is key to sustainable poultry production.

In recent time, the outbreak of COVID-19 in different parts of the world require concerted efforts and strategic planning. In order to bridge animal protein, I have examined the options available and provided some way out so that sustainability of the feeding and nutrition of poultry across the globe may be guaranteed (Paper 67).

In all, I have continuously aligned my research trials with the need of farmers and field demands. My research output have resulted in improved gut health, effective utilisation of minerals, amino acids and energy feedstuffs and the utilisation of unconventional feedstuffs and their nutritional enhancement. The knowledge generated is converted into tangible improvements in nutrition, products development and improved performance. I believe that alternative feed ingredient's use can be optimised using natural resources and this effort will contribute to raising monogastric animals in a cost-effective and in a sustainable manner.

01 Sept., 2021

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Signature

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Date

Fafiolu, Adeboye Olusesan (PhD)