

## **ISAH Olubukola Ajike**

Professor Olubukola Ajike Isah is a Ruminant Nutritionist at the Department of Animal Nutrition, Federal University of Agriculture, Abeokuta, Ogun State, Nigeria. Professor Isah obtained her B.Sc. Agriculture degree in Animal Science, M.Sc. Animal Science degree in the area of Animal products and handling and a PhD degree in Animal Nutrition. She joined Ambrose Alli University, Ekpoma, Edo State, Nigeria as an Assistant Lecturer in the year 1995 and became a Senior Lecturer in 2004. However, due to family relocation, she transferred her services to the Federal University of Abeokuta, as a lecturer II in 2005, and rose to the rank of a Professor in 2015. She was a recipient of Travelling Fellowship to Nairobi Kenya for grant proposal presentation workshop organized by the African Economic Research Consortium (2005) and for paper presentation at AAS-ICIPE-TWAS-ROSSA Conference in Nairobi, Kenya, on 'Climate Change and Food security: The Road for Africa' and a participant in the 25<sup>th</sup> Anniversary of African Academy of Science (AAS) and 40<sup>th</sup> Anniversary of the International Centre of Insect Physiology and Ecology (ICIPE) Celebrations (2011). She is a Fellow of African Women in Agricultural Research and Development (AWARD), based in Nairobi, Kenya. In the year 2009 to 2011, she was the Chair in the Department of Animal Nutrition of her current university, as the Acting Head. Olubukola Isah is a registered member of Nigerian Institute of Animal Scientist. She participates in promotion assessment of younger colleagues within and outside her University. She is an external examiner to Animal Science Department for undergraduate and postgraduate programmes in other Universities.

Her research areas include identification and nutritive evaluation of non-conventional forages and feed supplements for dry-season feeding, and their effect on climate change. Molecular study on modifying ruminant microbes to bring about improved productivity of livestock with a focus on sustainability of indigenous breeds of cattle, sheep and goats. Olubukola has authored and co-authored over 76 peer reviewed research publications. She has trained several undergraduate and postgraduate students currently earning their livelihood in Nigeria and other parts of the world. Isah is also working with a rural community in Ogun state that produces Red Sokoto goats. She goes there to train the women's group on how to improve their goats' productivity by making use of plants and crop waste in their vicinity without extra financial cost. She hopes to continue research that will impact positively on the small ruminant farmers, most of whom are women.

# **CURRICULUM VITAE**

## **01. PERSONAL DETAILS**

- (i) **Full Name:** Prof. ISAH, Olubukola Ajike  
(ii) **Date of Birth:** 12 / 06 / 63  
(iii) **Age:** 58 Years  
(iv) **Gender:** Female  
(v) **Marital Status:** Married  
(vi) **Nationality:** Nigerian  
(vii) **Town and State of Origin:** Abeokuta, Ogun State  
(viii) **Contact Address:** Department of Animal Nutrition,  
College of Animal Science and livestock  
Production, Federal University of  
Agriculture, PMB 2240, Abeokuta,  
Ogun State, Nigeria.  
(ix) **Phone Number:** +234 (0) 8138436385 (Mobile)  
(x) **E-Mail Address:** [isahoa@funaab.edu.ng](mailto:isahoa@funaab.edu.ng) or  
[bukolaisah13@gmail.com](mailto:bukolaisah13@gmail.com)  
(xi) **Date and Grade on 1<sup>st</sup> Appointment**  
**(Ambrose Alli University, Ekpoma):** 27<sup>th</sup> March, 1995 as Assistant Lecturer  
(xii) **Date of Confirmation**  
**(Ambrose Alli University, Ekpoma):** 1<sup>st</sup> October, 1997  
(xiii) **Date and Grade of Present Appointment**  
**(Federal University of Agriculture, Abeokuta):** 27<sup>th</sup> Sept.2005 - Lecturer 1  
(xiv) **Date and Grade of Last Promotion:** 1<sup>st</sup> October, 2015  
(xv) **Current Position:** Professor

## **02. QUALIFICATIONS:**

### **(a) Academic Qualification:**

EDUCATIONAL INSTITUTIONS ATTENDED (With Dates)

- (i) University of Ibadan (1997 - 2002)

- (ii) University of Ibadan (1989 - 1990)
- (iii) University of Ibadan (1983 - 1988)

**ACADEMIC QUALIFICATIONS (With Dates):**

- (i) PhD Animal Nutrition (2002)
- (ii) M.Sc. Animal Science (1990)
- (iii) B.Sc. (Hon.) Agric. (Animal Science) (1988)

**(b) Professional Qualification:**

- (i) Registered Animal Scientist (Nias/Ras/00317)  
Nigerian Institute of Animal Scientist (NIAS) (2010)
- (ii) Fellow: African Women in Agricultural  
Research and Development (AWARD): (2013)

**(c) Membership of Professional Bodies/Learned Societies:**

- (i) Nigerian Society For Animal Production (MNSAP)
- (ii) Animal Science Association Of Nigeria (ASAN)
- (iii) Agricultural Society of Nigeria (ASN)
- (iv) International Goat Association (IGA)**

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*Societies in Bold prints are International and foreign*

**03. SCHOLARSHIPS, AWARDS, GRANTS AND PRIZES:**

- (i) Lagos State committee of International Year of the Child Essay Writing Competition for Secondary Schools (1979)
- (ii) Federal Government Postgraduate Scholarship for Nigerian University Students (1989/1990)
- (iii) Travelling fellowship to Nairobi Kenya for grant proposal presentation workshop organized by the African Economic Research Consortium Sponsored by World Bank (2005)**
- (iv) Principal Investigator of a Competitive Research Grant offered by The Institute of Food Security, Environmental Resources and Agricultural Research (IFSERAR) of Federal University of Agriculture, Abeokuta (FUNAAB) for a Project Titled 'Toxicity Profile of Some Feedstuffs fed to West African Dwarf Goats in Sub-humid Zone of Nigeria' (Ref. No. : UNAAB/IFSERAR/IRG 13) (2010)
- (v) Project Collaborator for a Competitive Research Grant offered by The Institute of Food Security, Environmental Resources and Agricultural Research (IFSERAR) of Federal University of Agriculture, Abeokuta (FUNAAB) for a Project Titled: 'Evaluation of *Mucuna pruriens* extract on reproductive activities of WAD bucks' (Ref. No. : TETFUND/IFSERAR Research/IRG 48) (2010)
- (vi) Travelling fellowship for paper presentation at AAS-ICIPE-TWAS-ROSSA Conference in Nairobi, Kenya, on 'Climate Change and Food security: The Road for Africa' and participation in the 25<sup>th</sup> Anniversary of African Academy**

**of Science (AAS) and 40<sup>th</sup> Anniversary of the International Centre of Insect Physiology and Ecology (ICIPE) Celebrations: (Nov 10-12, 2011)**

- (vii) Project Collaborator for a Competitive Research Grant offered by Directorate of Grant Management (DGM) of FUNAAB Titled: 'Effect of fruit-rich anti-oxidants on viability of cryopreserved semen of WAD bucks (Ref. No. : FUNAAB/DGM/ 01-2012) (2012)
- (viii) **Tertiary Education Trust fund (TETFUND) International Conference Grant for paper presentation at World Academy of Science, Engineering and Technology (WASET), Dubai, UAE, (October 08-09, 2012)**
- (ix) **Highly Competitive International Fellowship Award of the African Women in Agricultural Research and Development (AWARD) Sponsored by Bill and Melinda Gates Foundation (2013)**
- (x) Principal Investigator of a Competitive Research Grant offered by Directorate of Grant Management (DGM) of FUNAAB Titled: 'Multi-nutrient Block supplement for Dry Season Goat Production' (Ref. No. : TETFUND/ESS.D/10./LR/PROFILE/RES) (2014)
- (xi) Project Collaborator for a Competitive Research Grant offered by Directorate of Grant Management (DGM) of FUNAAB Titled: 'Utilisation of Cashew nut shell liquid as a dietary strategy to manipulate rumen fermentation for improved Nutritional Performance of ruminants' (Ref. No. : TETFUND/ESS.D/11./LR/PROFILE/RES) (2014)
- (xii) Project Collaborator for a Competitive Research Grant offered by Directorate of Grant Management (DGM) of FUNAAB Titled: 'A mobile intelligent Animal Tracking and Management system based on GPS/GSM (MINTRACK)' (Years 2015-2016 (Merged) Tetfund Research Projects [RP] Intervention)

**Commendations**

- (i) Commendation Letter dated 20<sup>th</sup> Nov, 2006 by the Head of Department, Animal Nutrition, for active participation in the NUC 2006 Accreditation Exercise in UNAAAB.
- (ii) Commendation Letter dated 5<sup>th</sup> Feb, 2009 by the Head of department, Animal Nutrition for the successful compilation of 2<sup>nd</sup> Semester 2007/2008 results (100-FNG 1 levels).

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*Awards, Scholarships and Grants in bold prints are International and Foreign*

**04. WORK EXPERIENCE**

**(a). Progress since First Appointment:**

- (i) Assistant Lecturer Ambrose Alli University, Ekpoma, Edo State. 1995-1998
- (ii) Lecturer II Ambrose Alli University, Ekpoma, Edo State. 1998-2001
- (iii) Lecturer I Ambrose Alli University, Ekpoma, Edo State. 2001-2004
- (iv) Senior Lecturer Ambrose Alli University, Ekpoma, Edo State. 2004-2005

(v) Lecturer I	Federal University of Agriculture, Abeokuta, Ogun State	2005-2008
(vi) Senior Lecturer	Federal University of Agriculture, Abeokuta, Ogun State	2008-2012
(vii) Reader	Federal University of Agriculture, Abeokuta, Ogun State	2012-2015
(viii) Professor	Federal University of Agriculture, Abeokuta, Ogun State	2015-Date

**(b) University Teaching Experience:**

**(a) At Ambrose Alli University, Ekpoma**

**1995- -2005**

Course	Code	Units	No of students	Year
<b>Undergraduate</b>				
Introduction to Agricultural Biochemistry	AGR 214	3	250-350	1996-2005
Principles of Animal Production, Wildlife & Fisheries	AGR 215	3	200-220	1997-2000
Introduction to Genetics	AGR 217	2	300-350	1995-1996
Ruminant Animal Nutrition	AGR 307	3	150-180	1998-2005
Animal Genetics & Breeding	AGR 312	3	250-300	1996-1997
Cattle, Sheep & Goat Production	ANS 502	3	80-100	1999-2005
Nigeria Feeds & Feeding Stuffs	ANS 505	3	150-180	1999-2005
Ruminant Nutrition	ANS 512	2	80-100	1999-2005
Animal Products & Handling	ANS 513	2	80-100	1995-2005
Pasture & Range Management	ANS 514	2	80-100	2003-2005
Agricultural student seminar	AGR 597	1	80-100	1995-2005
Agricultural student seminar	AGR 598	1	80-100	1995-2005
Agricultural student project	AGP 599	4	80-100	1995-2005
<b>Postgraduate</b>				
Introduction to Laboratory Biochemistry Analysis	ANS 701	2	6-8	2002-2005
Advanced Ruminant Nutrition	ANS 712	2	4-6	2001-2005
Postgraduate seminar	ANS 798	-	20-25	1995-2005

**(b) At Federal University of Agriculture, Abeokuta (FUNAAB).**

**2005/2006 Session**

Course Title	Individual Contribution	Contact hours	Course Codes	Units	No of students	No of Lecturer
<b>Undergraduate</b>						
Introduction to Animal Biochemistry	25%	9	ANN202	3	600	4
Ruminant Animal Nutrition	50%	18	ANN503	3	250	3
Agricultural Student Seminar	20%	21	AGS597	1	80	6
Agricultural Student Seminar	20%	21	AGS598	1	80	6
<b>Postgraduate</b>						
Digestion & Metabolism in Ruminant	50%	18	ANN710	3	2	3
Sheep & Goat Nutrition	50%	18	ANN715	3	2	3
Large Ruminant Nutrition	50%	18	ANN716	3	2	2
Cattle Nutrition	100%	36	PDA723	3	2	1
Forage & Utilization	50%	18	ANN717	3	2	2
Postgraduate seminar	20%	27	ANN798	-	15-20	6

**2006/2007 Session**

Course Title	Individual	Contact	Course	Units	No of	No of
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	Contribution	hours	Codes		students	Lecturer
<b>Undergraduate</b>						
Introduction to Animal Biochemistry	25%	9	ANN202	3	650	4
Introduction to Animal Agricultural	25%	9	APH202	3	650	4
Ruminant Animal Nutrition	50%	18	ANN503	3	250	3
Agricultural Student Seminar	20%	21	AGS597	1	80	6
Agricultural Student Seminar	20%	21	AGS598	1	80	6
<b>Postgraduate</b>						
Digestion & Metabolism in Ruminant	50%	18	ANN710	3	3	3
Sheep & Goat Nutrition	50%	18	ANN715	3	3	3
Large Ruminant Nutrition	75	27	ANN716	3	3	2
Forage & Utilization	75%	27	ANN717	3	3	2
Postgraduate seminar	20%	27	ANN798	-	15-20	6

### 2007/2008 Session

Course Title	Individual Contribution	Contact hours	Course Codes	Units	No of students	No of Lecturer
<b>Undergraduate</b>						
Introduction to Animal Biochemistry	20%	9	ANN202	3	600	5
Introduction to Animal Agricultural	25%	9	APH202	4	600	5
Ruminant Animal Nutrition	50%	18	ANN503	3	300	3
Agricultural Student Seminar	20%	21	AGS597	1	85	6
Agricultural Student Seminar	20%	21	AGS598	1	85	6
<b>Postgraduate</b>						
Dairy Animal Nutrition	100%	30	ANN708	3	1	1
Digestion & Metabolism in Ruminant	80%	28	ANN710	3	1	2
Sheep & Goat Nutrition	80%	28	ANN715	3	1	2
Large Ruminant Nutrition	80%	28	ANN716	3	1	2
Forage & Utilization	80%	28	ANN717	3	1	2
Postgraduate seminar	20%	27	ANN798	-	15-20	6

### 2008/2009 Session

Course Title	Individual Contribution	Contact hours	Course Codes	Units	No of students	No of Lecturer
<b>Undergraduate</b>						
Introduction to Animal Biochemistry	20%	9	ANN202	3	1250	5
Ruminant Animal Nutrition	50%	18	ANN503	3	350	3
Agricultural Student Seminar	20%	21	AGS597	1	75	6
Agricultural Student Seminar	20%	21	AGS598	1	75	6
<b>Postgraduate</b>						
Dairy Animal Nutrition	100%	30	ANN708	3	2	1
Digestion & Metabolism in Ruminant	100%	18	ANN710	3	2	1
Sheep & Goat Nutrition	100%	18	ANN715	3	2	1
Large Ruminant Nutrition	100%	18	ANN716	3	2	1
Forage & Utilization	20%	18	ANN717	3	2	1
Postgraduate seminar	20%	27	ANN798	-	15-20	6

## 2009/2010 Session

Course Title	Individual Contribution	Contact hours	Course Codes	Units	No of students	No of Lecturer
<b>Undergraduate</b>						
Introduction to Animal Biochemistry	20%	8	ANN202	3	1250	5
Ruminant Animal Nutrition	50%	18	ANN503	3	350	3
Agricultural Student Seminar	20%	21	AGS597	1	74	6
Agricultural Student Seminar	20%	21	AGS598	1	74	6
<b>Postgraduate</b>						
Instrumentation in Animal Nutrition	50%	18	ANN702	3	10	3
Dairy Animal Nutrition	75%	30	ANN708	3	2	2
Digestion & Metabolism in Ruminant	33.3%	18	ANN710	3	2	3
Sheep & Goat Nutrition	33.3%	18	ANN715	3	2	3
Large Ruminant Nutrition	50%	18	ANN716	3	2	2
Cattle Nutrition	100%	36	PDA723	3	2	1
Forage & Utilization	50%	18	ANN717	3	2	2
Postgraduate seminar	20%	27	ANN798	-	15-20	6

## 2010/2011 Session

Course Title	Individual Contribution	Contact hours	Course Codes	Units	No of students	No of Lecturer
<b>Undergraduate</b>						
Introduction to Animal Biochemistry	25%	9	ANN202	3	1570	4
Instrumentation and feed analysis	33.3%	12	ANN509	3	350	3
Ruminant Animal Nutrition	33.3%	12	ANN503	3	350	3
Agricultural Student Seminar	20%	21	AGS597	1	68	6
Agricultural Student Seminar	20%	21	AGS598	1	68	6
<b>Postgraduate</b>						
Instrumentation in Animal Nutrition	33.3%	12	ANN702	3	7	3
Dairy Animal Nutrition	75%	30	ANN708	3	1	2
Digestion & Metabolism in Ruminant	33.3%	12	ANN710	3	1	3
Sheep & Goat Nutrition	33.3%	12	ANN715	3	1	3
Large Ruminant Nutrition	50%	18	ANN716	3	1	2
Cattle Nutrition	100%	36	PDA723	3	1	1
Forage & Utilization	50%	18	ANN717	3	1	2
Postgraduate seminar	20%	27	ANN798	-	15-20	6

## 2011/2012 Session

Course Title	Individual Contribution	Contact hours	Course Codes	Units	No of students	No of Lecturer
<b>Undergraduate</b>						
Introduction to Animal Biochemistry	20%	9	ANN202	3	1570	4
Instrumentation and feed analysis	33.3%	9	ANN509	3	350	3
Ruminant Animal Nutrition	33.3%	12	ANN503	3	350	3
Agricultural Student Seminar	20%	21	AGS597	1	85	6
Agricultural Student Seminar	20%	21	AGS598	1	85	6
<b>Postgraduate</b>						

Instrumentation in Animal Nutrition	33.3%	12	ANN702	3	27	3
Dairy Animal Nutrition	75%	30	ANN708	3	6	2
Digestion & Metabolism in Ruminant	33.3%	12	ANN710	3	6	3
Sheep & Goat Nutrition	25%	9	ANN715	3	6	4
Large Ruminant Nutrition	33.3%	12	ANN716	3	6	3
Forage & Utilization	33.3%	12	ANN717	3	6	3
Postgraduate seminar	20%	27	ANN798	-	15-20	6

### 2012/2013 Session

Course Title	Individual Contribution	Contact hours	Course Codes	Units	No of students	No of Lecturer
<b>Undergraduate</b>						
Introduction to Animal Biochemistry	20%	9	ANN202	3	1570	4
Instrumentation and feed analysis	33.3%	9	ANN509	3	350	3
Ruminant Animal Nutrition	33.3%	12	ANN503	3	350	3
Agricultural Student Seminar	20%	21	AGS597	1	85	6
Agricultural Student Seminar	20%	21	AGS598	1	85	6
<b>Postgraduate</b>						
Instrumentation in Animal Nutrition	33.3%	12	ANN702	3	27	3
Dairy Animal Nutrition	75%	30	ANN708	3	6	2
Digestion & Metabolism in Ruminant	33.3%	12	ANN710	3	6	3
Sheep & Goat Nutrition	25%	9	ANN715	3	6	4
Large Ruminant Nutrition	33.3%	12	ANN716	3	6	3
Forage & Utilization	33.3%	12	ANN717	3	6	3
Postgraduate seminar	20%	27	ANN798	-	15-20	6

### 2013/2014 Session

Course Title	Individual Contribution	Contact hours	Course Codes	Units	No of students	No of Lecturer
<b>Undergraduate</b>						
Introduction to Animal Biochemistry	20%	9	ANN202	3	1570	4
Instrumentation and feed analysis	33.3%	9	ANN509	3	350	3
Ruminant Animal Nutrition	33.3%	12	ANN503	3	350	3
Agricultural Student Seminar	20%	21	AGS597	1	85	6
Agricultural Student Seminar	20%	21	AGS598	1	85	6
<b>Postgraduate</b>						
Instrumentation in Animal Nutrition	33.3%	12	ANN702	3	27	3
Dairy Animal Nutrition	75%	30	ANN708	3	6	2
Digestion & Metabolism in Ruminant	33.3%	12	ANN710	3	6	3
Sheep & Goat Nutrition	25%	9	ANN715	3	6	4
Large Ruminant Nutrition	33.3%	12	ANN716	3	6	3
Forage & Utilization	33.3%	12	ANN717	3	6	3
Postgraduate seminar	20%	27	ANN798	-	15-20	6

### 2014/2015

Course Title	Individual	Contact	Course	Units	No of	No of
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	Contribution	hours	Codes		students	Lecturer
<b>Undergraduate</b>						
Introduction to Animal Biochemistry	20%	9	ANN202	3	1570	4
Instrumentation and feed analysis	33.3%	9	ANN509	3	350	3
Ruminant Animal Nutrition	33.3%	12	ANN503	3	350	3
Agricultural Student Seminar	20%	21	AGS597	1	85	6
Agricultural Student Seminar	20%	21	AGS598	1	85	6
<b>Postgraduate</b>						
Instrumentation in Animal Nutrition	33.3%	12	ANN 702	3	27	3
Dairy Animal Nutrition	75%	30	ANN 708	3	6	2
Digestion & Metabolism in Ruminant	33.3%	12	ANN710	3	6	3
Sheep & Goat Nutrition	25%	9	ANN715	3	6	4
Large Ruminant Nutrition	33.3%	12	ANN716	3	6	3
Forage & Utilization	33.3%	12	ANN717	3	6	3
Postgraduate seminar	20%	27	ANN798	2	15-20	6

### 2015/2016

Course Title	Individual Contribution	Contact hours	Course Codes	Units	No of students	No of Lecturer
<b>Undergraduate</b>						
Introduction to Animal Biochemistry	20%	9	ANN202	3	1570	4
Instrumentation and feed analysis	33.3%	9	ANN509	3	350	3
Ruminant Animal Nutrition	33.3%	12	ANN503	3	350	3
Agricultural Student Seminar	20%	21	AGS597	1	85	6
Agricultural Student Seminar	20%	21	AGS598	1	85	6
<b>Postgraduate</b>						
Instrumentation in Animal Nutrition	33.3%	12	ANN 702	3	27	3
Dairy Animal Nutrition	75%	30	ANN 708	3	6	2
Digestion & Metabolism in Ruminant	33.3%	12	ANN710	3	6	3
Sheep & Goat Nutrition	25%	9	ANN715	3	6	4
Large Ruminant Nutrition	33.3%	12	ANN716	3	6	3
Forage & Utilization	33.3%	12	ANN717	3	6	3
Postgraduate seminar	20%	27	ANN798	2	15-20	6

### 2016/2017: Sabbatical Leave at Faculty of Agriculture, Nasarawa State University, Lafia Campus.

Course Title	Individual Contribution	Contact hours	Course Codes	Units	No of students	No of Lecturer
<b>Undergraduate</b>						
Ruminant Animal Production and Husbandry	100%	3hr/week	ANS321	2	67	1
Agricultural Products, Processing and Storage	100%	3hr/week	AGR412	2	59	1
Cattle, Sheep and Goat Production	100%	3hr/week	ANS512	2	45	1
Ruminant Animal Nutrition	100%	3hr/week	ANS522	2	48	1
Agricultural Student Seminar	15%	4hr/week	AGS598	1	85	6
<b>Postgraduate</b>						
Sheep and Goat Production	100%	3hr/week	ANS723	2	18	1
Dairy Cattle Production	100%	3hr/week	ANS725	2	18	1
Advance Sheep and Goat Production	100%	3hr/week	ANP813	2	12	1

Advance Ruminant Nutrition	100%	5hr/week	ANN810	3	12	1
Advance Dairy Cattle Production	100%	3hr/week	ANP810	2	12	1
Advance Beef Cattle Production	100%	3hr/week	ANP820	2	8	1
Ruminology	100%	5hr/week	ANN 911	3	3	1
Bioenergetics	100%	5hr/week	ANN9921	3	3	1
Postgraduate seminar	10%	5hr/week	ANN798	2	15-20	12

## 2017/2018

Course Title	Individual Contribution	Contact hours	Course Codes	Units	No of students	No of Lecturer
<b>Undergraduate</b>						
Introduction to Animal Biochemistry	20%	9	ANN202	3	1780	4
Instrumentation and feed analysis	33.3%	9	ANN509	3	400	4
Ruminant Animal Nutrition	33.3%	12	ANN503	3	816	3
Agricultural Student Seminar	20%	21	AGS597	1	96	14
Agricultural Student Seminar	20%	21	AGS598	1	96	14
<b>Postgraduate</b>						
Advanced Techniques in Animal Science Research	20%	6	ANN 805	3	64	5
Instrumentation in Animal Nutrition	33.3%	12	ANN 802	3	24	3
Dairy Animal Nutrition	75%	30	ANN 808	3	4	2
Digestion & Metabolism in Ruminant	33.3%	12	ANN810	3	4	3
Sheep & Goat Nutrition	25%	9	ANN815	3	4	4
Large Ruminant Nutrition	33.3%	12	ANN816	3	4	3
Forage & Utilization	33.3%	12	ANN817	3	4	3
Postgraduate seminar	20%	27	ANN898	2	60	14

## 2018/2019

Course Title	Individual Contribution	Contact hours	Course Codes	Units	No of students	No of Lecturer
<b>Undergraduate</b>						
Introduction to Animal Biochemistry	20%	9	ANN202	3	1570	4
Instrumentation and feed analysis	50%	14	ANN509	3	433	2
Ruminant Animal Nutrition	33.3%	12	ANN503	3	350	3
Companion Animal Nutrition	20%	6	ANN 504	2	77	5
Feed Mill Design and Management	18%	5	ANN 513	2	163	6
Agricultural Student Seminar	20%	21	AGS597	1	78	14
Agricultural Student Seminar	20%	21	AGS598	1	78	14
<b>Postgraduate</b>						
Instrumentation in Animal Nutrition	33.3%	12	ANN 802	3	27	3
Dairy Animal Nutrition	75%	30	ANN 808	3	4	2
Digestion & Metabolism in Ruminant	33.3%	12	ANN810	3	4	3
Sheep & Goat Nutrition	25%	9	ANN815	3	4	4
Large Ruminant Nutrition	33.3%	12	ANN816	3	4	3
Forage & Utilization	33.3%	12	ANN817	3	4	3
Postgraduate seminar	20%	27	ANN898	2	60	14

## 2019/2020

Course Title	Individual	Contact	Course	Units	No of	No of
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	<b>Contribution</b>	<b>hours</b>	<b>Codes</b>		<b>students</b>	<b>Lecturer</b>
<b>Undergraduate</b>						
Introduction to Animal Biochemistry	20%	9	ANN202	3	1570	4
Instrumentation and feed analysis	50%	14	ANN509	3	433	2
Ruminant Animal Nutrition	33.3%	12	ANN503	3	350	3
Companion Animal Nutrition	20%	6	ANN 504	2	77	5
Feed Mill Design and Management	18%	5	ANN 513	2	163	6
Agricultural Student Seminar	20%	21	AGS597	1	78	14
Agricultural Student Seminar	20%	21	AGS598	1	78	14
<b>Postgraduate</b>						
Instrumentation in Animal Nutrition	33.3%	12	ANN 802	3	27	3
Dairy Animal Nutrition	75%	30	ANN 808	3	4	2
Digestion & Metabolism in Ruminant	33.3%	12	ANN810	3	4	3
Sheep & Goat Nutrition	25%	9	ANN815	3	4	4
Large Ruminant Nutrition	33.3%	12	ANN816	3	4	3
Forage & Utilization	33.3%	12	ANN817	3	4	3
Postgraduate seminar	20%	27	ANN898	2	60	14

## 2020/2021

<b>Course Title</b>	<b>Individual Contribution</b>	<b>Contact hours</b>	<b>Course Codes</b>	<b>Units</b>	<b>No of students</b>	<b>No of Lecturer</b>
<b>Undergraduate</b>						
Introduction to Animal Biochemistry	20%	9	ANN202	3	1794	5
Instrumentation and feed analysis	50%	14	ANN509	3	411	5
Ruminant Animal Nutrition	33.3%	12	ANN503	2	329	7
Companion Animal Nutrition	20%	6	ANN 504	2	104	5
Feed Mill Design and Management	18%	5	ANN 513	2	223	5
Agricultural Student Seminar	20%	21	AGS597	1	102	14
Agricultural Student Seminar	20%	21	AGS598	1	102	16
<b>Postgraduate</b>						
Instrumentation in Animal Nutrition	33.3%	12	ANN 802	3	27	3
Dairy Animal Nutrition	75%	30	ANN 808	3	4	2
Digestion & Metabolism in Ruminant	33.3%	12	ANN810	3	4	3
Sheep & Goat Nutrition	25%	9	ANN815	3	4	4
Large Ruminant Nutrition	33.3%	12	ANN816	3	4	3
Forage & Utilization	33.3%	12	ANN817	3	4	3
Postgraduate seminar	20%	27	ANN898	2	60	14

### (c) Professional Experience:

#### (I). Review of Articles for Publishers:

- (i) Nigerian Society for Animal Production (NSAP)
- (ii) Journal of Animal Production
- (iii) Journal of Molluscan Research (FUNAAB)
- (iv) Journal of Applied Agricultural Research (ARCN, Abuja)
- (v) Journal of Animal Production Research (NAPRI, Zaria)

- (vi) Nigerian Journal of Animal Production (NJAP)
- (vii) Nigerian Journal of Animal Science (NJAS)
- (viii) Tropical Animal Production Investigations
- (ix) **International Conference on Agricultural and Biological Sciences Conference, Australia (ABS 2015)**

**(II) Training Programmes Attended (With Dates):**

- (i) Agricultural Science, Technology and Innovation (ASTI) Training of Trainer's Workshop (Abuja) organised by CTA, Netherlands 2009.
- (ii) 13<sup>th</sup> FUNAAB Summer Course in Practical Biotechnology sponsored by CGIAR 2009
- (iii) Information Training and Outreach Centre for Africa (ITOCA) /Research 4 Life/ The Essential Electronic Agricultural Library (TEEAL) Workshop (Port Harcourt) 2010.
- (iv) WEB 2.0 Training Workshops, (FUNAAB), sponsored by CTA, Netherlands 2010
- (v) 1<sup>st</sup> FUNAAB Fingerprinting Workshop 2010.
- (vi) 2<sup>nd</sup> FUNAAB Fingerprinting Workshop 2011.
- (vii) **African Women in Agricultural Research and Development (AWARD) Mentoring Orientation Workshop, Hosted by World Agroforestry Centre, United Nations Avenue, Gigiri, Nairobi, Kenya. - Held February, 2013 in Nairobi.**
- (viii) **African Women in Agricultural Research and Development (AWARD) Science Skill Workshop, Hosted by World Agroforestry Centre, United Nations Avenue, Gigiri, Nairobi, Kenya. - Held June, 2013 in Uganda.**
- (ix) **African Women in Agricultural Research and Development (AWARD) Leadership Training, Hosted by World Agroforestry Centre, United Nations Avenue, Gigiri, Nairobi, Kenya. - Held April, 2014 in Nairobi.**
- (x) **2014 International Training Course on methods of measurements of Methane Emissions from Forage - fed Ruminants: An Introduction to Methane Measurement. - Held September - October, 2014 in University of Pretoria, South Africa.**
- (xi) Training Course on Introductory Biotechnology organized by FUNAAB Biotechnology Centre - March, 2015

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*Training Programmes in bold prints are International*

**(d) Students Supervision and External Oral Examinations:****(i) Undergraduate students' Supervision (Summary)**

Session	No of students	Programme
<b>At Ambrose Alli University, Ekpoma.</b>		
1995/1996	1	B.Agric.
1996/1997	1	B.Agric.
1997/1998	2	B.Agric.
1998/1999	4	B.Agric.
1999/2000	4	B.Agric.
2000/2001	2	B.Agric.
2001/2002	1	B.Agric.
2002/2003	1	B.Agric.
2003/2004	4	B.Agric.
2004/2005	2	B.Agric.
<b>At Federal University of Agriculture, Abeokuta.</b>		
2005/2006	6	B.Agric.
2006/2007	5	B.Agric.
2007/2008	5	B.Agric.
2008/2009	5	B.Agric.
2009/2010	6	B.Agric.
2010/2011	5	B.Agric.
2011/2012	6	B.Agric.
2012/2013	6	B.Agric.
2013/2014	6	B.Agric.
2014/2015	8	B.Agric.
2015/2016	8	B.Agric.
2016/2017 ( Sabbatical at Nasarawa State University)	3	B.Agric
2017/2018	4	B.Agric
2018/2019	5	B.Agric
2019/2020	5	B.Agric
<b>Total</b>	<b>105</b>	

**(ii) Postgraduate students' Supervision**

S/No	Name of student /matric no	PG Program	Title	Status of supervision	Remark	Supervisory Committee
1.	Oguntuyo, A. S. PG/12/0150	PhD	Effect of Exogenous enzyme on fibre utilization and Performance of WAD goats	Major-supervision	On-going	Prof. Mrs. Isah, O.A. Dr. Mrs. Aderinboye, R.Y. Dr. Williams, T. J 1444
2.	Adebayo, Babatunde PG11/00105	PhD	Effect of supplementation of grasses fed to WAD goats with different browse species.	Major-supervision	On-going	Prof. Mrs. Isah, O.A Dr. Adelusi, O. 2464 Prof. Smith, O. 736
3.	Amisu, Ahmed Adeyemi PG14/0773	PhD PRM	Effect of phosphorus sources and sowing methods on the yield and nutritive quality of fresh herbage and hay from two <i>Stylosanthes</i> species	Co - supervision	On-going	Prof. J. A. Olanite 641 Prof. Onifade, S. O. 807 Prof. Mrs. O. A. Isah 1192

4.	Okunade, S. A. PG11/0144	PhD	<i>In vitro</i> and <i>in vivo</i> methane emission and rumen parameters in red Sokoto goats fed tropical browse plants.	Major-supervision	Completed	Prof. Mrs. Isah, O.A. 1192 Dr.(Mrs.)K.O.Adebayo1760 Dr.(Mrs.)O.O. Odedara1178
5.	Adeoye, Samson Adewale PG06/0322	PhD, PRM	Complementary Benefits of Two Grasses and Two Legumes in Binary Mixtures under Varying Poultry Manure Rates and Quality of their Conserved Products.	Co - supervision	Completed	Prof. Mrs. O. A. Isah Prof. J. A. Olanite Prof. Mrs. Jolaoso 355
6.	Akinbode, Risikat Mojisola PG08/0054	PhD ANN	Effect of Different roughage sources on Rumen Ecology and Digestibility in sheep	Major-supervision	Completed	Dr. Mrs. Isah, O.A Dr. Oni, A. O. Dr. Arigbede, O.M.
7.	Yusuf, K.O. PG06/0055	Ph. D ANN	Effect of Enzyme Additive on <i>in-vitro</i> Parameters and Utilization of Fresh Grass and grass hay-based diets by Yearling Calves.	Major-supervision	Completed	Dr. Mrs. Isah, O.A. Prof. Onwuka, C. F. I. Dr. Olanite
8.	Omoniyi L.A. PG 07/0231	Ph. D ANN	Assessment of Rumen Microbial Flora of West African Dwarf Goats Fed Selected Browse Plant Using Molecular Based M.Agric Technique.	Major-supervision	Completed	Dr. Mrs. Isah, O.A. Prof. Onwuka, C. F. I. Prof. Onagbesan,
9.	Obe, A. A PG11/00121	Ph.D ANN	Utilization of Cocoa Bean Shell Based Diets by West African Dwarf (WAD) Sheep	Co-supervision	Completed	Dr. Mrs. Isah, O.A Prof. Onwuka, C. F. I. Dr. Arigbede, O. M.
10	Ettu R.O. PG05/0114	Ph. D (ANN)	Utilization of Cocoa seed testa and sorghum malt dust based diets by male West African Dwarf Sheep	Co-supervision	Completed	Prof. Onwuka, C. F. I. Dr. Mrs. Isah, O.A
11	Fadairo, Tolani Abolaji PG 17/0094	M.Agric APH	Effect of stages of lactation on performance of West African dwarf does and their kids	Co - supervision	Completed	Prof. Mrs. Adewumi Prof. Mrs. Isah, O.A Dr. Yusuf, A. O.
12	Oyebamiji, Banke Adetoun PG17/0463	M. Agric.	Effect of Orange peel on rumen fermentation, nutrient utilization and performance of West African Dwarf goats	Co-supervision		Dr.(Mrs.)K.O.Adebayo1760 Prof. Mrs. Isah, O.A. 1192 Dr. Mrs. Sanwo 1380
13	Ipinmoroti, T. O. PG16/0457	M. Agric.	<i>In vitro</i> and <i>In vivo</i> Evaluation of Scent Leaf ( <i>Ocimum gratissimum</i> ) Extract as Phytogenic Feed Additives for West African Dwarf Goats	Co-supervision	Completed	Dr.(Mrs.)K.O.Adebayo1760 Prof. Mrs. Isah, O.A. 1192 Dr.(Mrs.) O. Y. Ayo - Ajasa 2169
14	Amisu, Ahmed Adeyemi PG14/0773	M.Agric. PRM	Influence of phosphorus sources, Application rates and sowing methods on the dry matter yield and nutritive quality of <i>Stylosanthes hamata</i>	Co - supervision	Completed	Prof. J. A. Olanite641 Prof. Onifade, S. O.807 Prof. Mrs. O. A. Isah1192
15	Fabinu, Mutiu Akinyemi PG/16/0372	M.Agric. ANN	Effect of probiotic/ enzyme mixture on crop residues fed to WAD goats.	Major-supervision	On-going	Prof. Mrs. O. A. Isah Prof. J. A. Olanite Dr.Mrs.Akinbode,R.M 2466

16	Babas, Indige Samuel NSU/MSc/ANN// 0022/16/17	M.Sc. NSUK Lafia	<i>In vitro</i> gas, methane measurements and post incubation parameters of grasses, browses plants and multipurpose trees consumed by ruminants in North central zone of Nigeria.	Major-supervision	Completed	Prof. Mrs. Isah, O.A. Prof. M. M. Ari Dr. Adua
17	Adebayo, Adewumi Isaque PG/13/0359	M.Agric. ANN	Performance and Carcass Evaluation of Rabbits fed Urea-Molasses Blocks with <i>Tridax</i> as basal Diet	Major-supervision	Completed	Dr. Mrs. Isah, O.A.1192 Dr. Sobayo, R. A.1442 Dr. Akinola, O. S.1445
18	Ijigade, Joyce M. PG /14/0648	M.Agric ANN	Intake and Digestibility of WAD goats Fed Urea-Molasses Blocks with Different Forages as Basal Diet	Major-supervision	Completed	Dr. Mrs. Isah, O.A 1192 Dr. Mrs. Yusuf 1760 Dr. Mrs.Ojo 1441
19	Oguntuyo, A. S. PG/12/0150	M.Agric ANN	Effect of 'Kaun' (Local Potash) and Salt Lick on Performance of WAD goats	Major-supervision	Completed	Dr. Mrs. Isah, O.A. Dr.Mrs.Aderinboye,R.Y.12 76 Dr. Williams, T. J. 1444
20	Adedeji, Adeyinka Paul PG13/0137	M.Agric. AEFM	Comparative Economic Analysis of Poultry Egg Production Under Different Production Systems In Oyo State, Nigeria.	Co-supervision	Completed	Prof. P. A. Okunneye Dr. D. Akerele Dr. Mrs. Isah, O.A.
21	Adeyemi, Oluwaseyi Bamidele PG/13/0210	M.Sc. (Med. MCB & Pub. Hlth)	Evaluation of Medically-Important Bacteria from Selected Abattoirs in Ilorin. Kwara State, Nigeria	Co-supervision	Completed	Dr. Mrs. Afolabi Dr. Mrs. Isah, O.A Dr. Mrs. Akintokun
22	Yusuf, Olasupo PG 12/0679	M.Agric. (ANP)	Effects of Melantonin on growth, physiological and haematological profile of West African dwarf goats	Co-supervision	Completed	Dr. James, I Dr. Mrs. Isah, O.A
23	Mawusi, Toyin Deborah (PG11/0498)	M.Sc. ( Food & industrial MCB)	Molecular Screening of lactic acid bacteria from fermented foods and evaluation of their inhibitory activities against food-borne pathogens	Co-supervision	Completed	Dr. Mrs. Afolabi Dr. Mrs. Isah, O.A. Dr. Mrs. Akintokun
24	Adebayo, Babatunde PG11/00105	M.Agric ANN	Rumen microbial assessments of WAD goats fed different browse species.	Major-supervision	Completed	Dr. Mrs. Isah, O.A. Dr. Oni, A. O. Dr. Smith, O
25	Okunade, S. A. PG11/0144	M.Agric ANN	<i>In vitro</i> and <i>in vivo</i> methane emission and rumen parameters in red Sokoto goats fed Threshed Sorghum Top.	Major-supervision	Completed	Dr. Mrs. Isah, O.A Dr. Mrs. Aderinboye, R. Y. Dr. Oyekunle, M. A.
26	Adekeye, E. Y. PG11/00107	M.Agric ANN	Performance of WAD sheep fed graded levels of moringa leaf meal – based concentrate as supplement to panicum	Major-supervision	Completed	Dr. Mrs. Isah, O.A Dr. Mrs. Aderinboye, R. Y. Prof. Onifade, S.
27	Adelusi, Oludotun Olusegun (PG08/0049)	M.Agric ANN	Effects of Inclusion of Some Tree Leaves on Rumen Fermentation and Microbial Ecology of West African Dwarf Goats.	Major Supervision	Completed	Dr. Mrs. Isah, O.A Prof. Onwuka, C. F. I. Dr. Mrs. Afolabi

28	Akinbode, Risikat Mojisola PG08/0054	M.Agric ANN	Effect of Different roughage sources on Rumen Ecology and Digestibility in sheep	Major-supervision	Completed	Dr. Mrs. Isah, O.A Dr. Oni, A. O. Dr. Mrs. Adewumi
29	Adebayo Fatimah Adenike/ PG09/0202	M. Sc. (Med. MCB & Pub. Hlth)	Antimicrobial properties of purified Bacteriocins Produced by Lactobacillus strains against selected pathogenic microorganisms.	Co-supervision	Completed	Dr. Mrs. Afolabi Dr. Mrs. Isah, O.A Dr. Mrs. Akintokun
30	Odufale, Oluwagbemisola Omobolanle PG10/0323	M. Sc. (Food & Industrial MCB)	Effect of <i>Sorghum bicolor</i> (L.) Moench Straw on chemical composition and microbial quality of 'Ogi'.	Co-supervision	Completed	Dr. Mrs. Afolabi Dr. Mrs. Isah, O.A Dr. Mrs. Akintokun
31	Salami S.A. PG09/0067	M.Agric ANN	Effects of Caecotrophy and Dietary crude Protein level on Performance, caecal Ecology, haematology and total Nutrient Recycled in Growing Rabbits	Major-supervision	Completed	Dr. Mrs. Isah, O.A Dr. Mrs. Aderinboye, R. Y. Dr. Ajayi, L. A.
32	Adekeye A.B. PG09/0259	M.Agric. (PRM)	Effects of Cutting Heights and Intervals on the Dry Matter yield and quality of two Grasses in Natural Pastures in Abeokuta	Co-supervision	Completed	Prof. Onifade, S. O. Dr. Mrs. Isah, O.A
33	Omotosho O.Y. PG 08/0344	M.Agric. (APH)	Performance and carcass Evaluation of Growing Rabbits fed diet Containing varying levels of xylanase with <i>Gliricidia sepium</i> as basal diet	Co-supervision	Completed	Dr. Mrs. Isah, O.A Dr. O. S. Sowande
34	Omoniyi L.A. PG07/0231	M.Agric. ANN	Utilization Of Multi-Nutrient Feed Block by West African Dwarf Goats fed <i>Panicum maximum</i> Basal Diet	Major-supervision	Completed	Dr. Mrs. Isah, O.A. Prof. Onwuka, C. F. I. Dr. Mrs. Aderinboye, R. Y.
35	Olajuyin Samuel O. / PG07/0108	M. Agric. (APH)	Evaluation of Quality Characteristics of Beef and Pork liver Sausages Containing Animal Protein Additives	Co-supervision	Completed	Dr. Mrs. Oduguwa, B. B Dr. Mrs. Isah, O. A.
36	Adedeji, A.A.	M.Agric. (APH)	Estimation of Linear Body Measurements of Three African Breeds of Cattle under Extensive Management System	Co-supervision	Completed	Dr. Mrs. Oduguwa, B. B Dr. Mrs. Isah, O.A
37	Ike Kelechi A. PG06/0315	M. Agric. (PRM)	Effect of Storage Period on the Chemical Composition and in Vitro Gas Production of Selected Forages	Co-supervision	Completed	Dr. Mrs. Isah, O.A Dr. O. M. Arigbede
38	Ogunyemi O.A./ PG06/	M. Agric. (ANN)	Effect Of Rovabio Enzyme On Utilization Of <i>Albizia Sama</i> By West African Dwarf goats	Co-supervision	Uncompleted	Prof. Onwuka, C. F. I. Dr. Mrs. Isah, O.A Dr. Arigbede, O.M.
39	Yusuf K.O. PG06/0055	M.Agric. ANN	<i>In-vitro</i> and <i>in-vivo</i> Evaluation of the Potentials of some browse Plants as feed for Ruminants	Major-supervision	Completed	Dr. Mrs. Isah, O.A. Prof. Onwuka, C. F. I. Dr. Arigbede, O.M.



40	Fayemi P.O. PG05/0308	M.Agric. (ANN)	Effect of mimosine and tannin toxicity on Rabbits fed Processed <i>Leucaena leucocephala (lam) De wit</i> leaves	Co-supervision	Completed	Prof. Onwuka, C. F. I. Dr. Mrs. Isah, O.A
41	Gomos, Michael Amos  NSU/PGD/ANS/002/16/17	PGD NSUK Lafia	Nutritional characterization of eight fodder plants consumed by free ranging ruminant in north-central nigeria: <i>in vitro</i> analysis	Major-supervision	Completed	Prof. Mrs. Isah, O.A
42	Abdul, Olajide Abayomi PG/14/0639	PG Diploma ANN	<i>In Vitro</i> Assessment of Urea Molasses Block as feed supplement for Rabbit Production	Major-supervision	Completed	Dr. Mrs. Isah, O.A

### (iii) Oral Examination in other Universities

S/No	Name of student /matric no	PG Program	Title	University/Year
1	Olusimbo Kenneth-Obosi Matric No: 136694:	PhD	Effect of Saponin - bound Urea - ammoniated Maize Stover on Performance of Small Ruminants	<b>U.I</b> April, 2015
2	Olumuyiwa, Tomilola Ayo APH/11/7120	M.Tech. Agric.	Nutritive value of Biodegraded Rice Husk Treated with or without Molasses as feed for West African Dwarf Bucks.	<b>FUTA</b> Sept, 2016
3	Cynthia OKOEGUALE Matric No: PG/AGR1312016	M.Sc.	Development and Utilization of 'MUSARYEAST' as a Replacement for Soybean Meal in the diets of weaner Rabbits	<b>UNIBEN</b> June, 2017
4	Adeyeye, Aderonke Adebukola APH/14/0350	M.Tech. Agric	Nutritive Value of <i>Panicum maximum</i> Supplemented with <i>Myrianthus arboreus</i> Leaf meal Concentrate for Goats in South West Nigeria.	<b>FUTA</b> July, 2017
5	Taiwo, Esther Abiola PG/15/0388	Masters	Performance, Blood Parameters and Carcass Characteristics of Broilers fed Graded Levels of Enzyme Supplemented Yam Peel Meal	<b>Babcock</b> University
6	Akaninyene, Asuquo Jack. Matric. No. 160889	PhD	Rumen fermentation, growth performance and meat quality of West African Dwarf rams fed with water-washed neem ( <i>Azadirachta indica</i> A. JUSS) fruit inclusion	<b>U.I.</b> May, 2018
7	Undergraduate Viva	B.Agric	Moderation of Examination questions and project defense at <b>AAU Ekpoma</b>	2016/17 academic session
8	Undergraduate Viva	B.Agric	Moderation of Examination questions and project defense at <b>AAU Ekpoma</b>	2017/18 academic session
9	Ajayi, Opeyemi Arinola PG/14/0340	PhD	Utilization of <i>Centella asiatica</i> (Gotu Kola) Leaf Meal as Feed Additive in Broiler Chicken Diet	<b>Babcock</b> University July, 2020
1	ADERIBIGBE Oluwabunmi Victoria	M.Sc.	Physiological Response and Fertility of Red Sokoto Bucks fed Diets Supplemented with Rolfe	<b>UniAbuja</b> Aug, 2021

	Matric. No: 1740103003		( <i>Daniellia oliveri</i> ) Essential Oil	
1	BALOGUN David Matric. No.: 16499019	M.Sc.	Effects of Processing Methods on Silage Quality and <i>In vitro</i> Gas Production of Sugarcane Scrapings	UniAbuja Aug, 2021
1	GERO Abubakar Matric. No: 1740103012	M.Sc.	<i>In Vitro</i> and <i>In vivo</i> Assessment of Soybean Husk as a feed for Red Sokoto Goats	UniAbuja Aug, 2021

## 05. RESEARCH

### (a) On-going Research:

- Effect of exogenous enzymes on fibre utilization by small ruminants.
- Enteric methane reduction from ruminant animals using herbaceous plants.

## 06. COMMUNITY SERVICE OUTSIDE THE UNIVERSITY:

- (i) Procurement Officer in Charge of purchase of project materials for Goodness Community Fadama Project (Livestock), Ojoo, Ibadan 2007 – 2009
- (ii) Facilitator and Trainer during the Training of Agricultural Officers of Nigerian Prison service 2010.
- (iii) Facilitator and Trainer during a Capacity building Workshop for Red Sokoto production programme, Ayetoro/Yewa North Local Government Area, Ogun State 15<sup>th</sup> June, 2012
- (iv) Resource Person: Career talk in Quintessential School, Goodness Estate, Arulogun road, Ojoo, Ibadan. 2009
- (v) Presenter: *Women angle* – Deeper Life Bible Church 24/7 Channel Television 2009 - 2010
- (vi) Group of District Youth Leader: Deeper Life Bible Church 2002 - 2015
- (vii) Resource person: Imperial College, Sasa, Ojoo, Ibadan. 2016
- (viii) Secretary: Accord Estate Community Development Association

## 07. UNIVERSITY EXTENSION ACTIVITIES:

### (a) Brief Description of Extension Activities:

- (i) A member of Faculty advisory/counseling committee at Ambrose Alli University, Ekpoma saddled with the responsibility to counsel students who are finding it difficult to cope with their academics 2003- 2005
- (ii) Representation of Head of Department (HOD) at College Board of Studies comprising of all heads of Department and all Professors in the College 2006-2009

- (iii) Representation of HOD at Postgraduate Board meetings 2006-2009, 2013-2015
- (iv) Chairperson - College of Animal Science and Livestock Production (COLANIM) Social Welfare committee in charge of social activities of Academic and Non-academic staff such as send forth of retired staff, etc 2008-2010
- (v) Participation in Post-JAMB undergraduate admission screening exercise of potential students of FUNAAB 2008-2009

**(b) Resources Inputs into Training and Workshops:**

- (i) Participation in Agricultural Media Resources and Extension Centre (AMREC) training for livestock farmers at Adao Village off Alabata, Abeokuta as a Subject Matter Specialist. 26/03/2013
- (ii) Participation in Agricultural Media Resources and Extension Centre (AMREC) training for livestock farmers at Ilewo Orile Village, Abeokuta North Local government area as a Subject Matter Specialist. 17/04/2013
- (iii) Participation in Agricultural Media Resources and Extension Centre (AMREC) Pre-season workshop for farmers in FUNAAB as a Facilitator 30/04/2014.
- (iv) Participation in Agricultural Media Resources and Extension Centre (AMREC) training for livestock farmers at Olokuta Village via Idogo, Yewa South Local government area: Subject Matter Specialist 14/05/2014.
- (v) Organisation of African Women in Agricultural Research and Development (AWARD) Mentoring Orientation Workshop for 6 neighbouring high school 12/12/2014.**
- (vi) Training of Cattle Fulani Herdsmen at FUNAAB Adopted Villages in conjunction with Cattle Production Venture (CPV) / AMREC 2015.
- (vii) Representative of COLANIM at Curriculum development Committee 2015.

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*Extension Activities in bold prints are International.*

**08. OTHER ACTIVITIES WITHIN THE UNIVERSITY SYSTEM:**

**(a) Position in Administration:**

**(I) At Ambrose Alli University, Ekpoma**

- (i) Departmental board – member 1995 - 2005
- (ii) Faculty Appointment and Promotion board (Non-academic staff)-member 2004-2005
- (iii) Examination officer for the Department 2003 - 2005
- (iv) Course coordinator-Ruminant Animal nutrition 2003 - 2005
- (v) Departmental Level adviser – 300level 2003 - 2005

**(II) At Federal University of Agriculture, Abeokuta**

(vi) College Board, COLANIM, Member	2005 - Date
(vii) College Board Representative at COLENG, FUNAAB.	2005 - 2010
(viii) Course coordinator	2005 - 2010
(ix) Level adviser	2005 - 2010
(x) Undergraduate Seminar Coordinator – Departmental	2006 - 2007
(xi) Registration Officer for the department	2007 - 2009
(xii) Associate Scientist, FUNAAB BIOTECH Centre	2010 - 2011
(xiii) Acting Head of Department	08/10/07 - 03/11/2007
(xiv) Acting Head of Department	2009- 2011
(xv) *College Representative:	
Appointment and Promotion Committee of Non-Academic staff (ASCON) 2013-2016	

**(b) Membership of Committees:**

**(I) At Ambrose Alli University, Ekpoma**

(i) Library committee -Faculty Representative	1996 - 1998
(ii) Time table and space utilization committee- Departmental representative	1998 - 2005
(iii) Faculty advisory/counseling committee-member	2003 - 2005

**(II) At Federal University of Agriculture, Abeokuta**

(i) Curriculum Development committee member-Departmental representative	2006 - 2008
(ii) Cattle Technical Committee (CAMTEC) - member	2006 - 2009, 2014-Date
(iii) Small Ruminant Technical committee (SRTEC) - member	2006 - 2009, 2014-Date
(iv) Rabbit Technical Committee (RAMTEC) – member	2006 - 2009, 2014-Date
(v) Pasture Management Technical Committee (PAMTEC)	2014-Date
(vi) Feedmill Management Technical Committee (FEMTEC)	2014-Date
(vii) Development of Model COLANIM Farms- Member	2006
(viii) COLANIM Social Welfare committee – Chairperson	2008 - 2010
(ix) FUNAAB Finger printing Workshop, LOC Member	2010 - 2012
(x) College committee for COLANIM e-lecture note editorial committee member	2011
(xi) COLANIM publication committee for 2010/2011 session	2011
(xii) International conference on Giant African Land Snails-LOC Member	2011
(xiii) *Committee for Community Small - holder Milk Production Programme of Cattle Production Venture (CPV): Member	2015
(xiv) *Committee for Commercial Cattle Production and Meat processing Programme of Federal University of Agriculture, Abeokuta Conservices Ltd (FUCONS)	2015

**(c) External Examination:**

(i) External examiner, (Masters Student) at the University of Benin	2010
(ii) External examiner, (PhD Student) at the University of Ibadan	2012
(iii) *External examiner, (Masters Student) at Ambrose Alli University, Ekpoma	2013
(iv) *External examiner, (PhD Student) at the University of Ibadan	2015
(v) External examiner, (PhD Student) at the FUTA	2016
(vi) External examiner, (PhD Student) at the University of Benin	2017
(vii) External examiner, (PhD Student) at the FUTA	2017
(viii) External examiner, (500 level students) at Ambrose Alli University, Ekpoma	2013

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\*Additional Activities after last Promotion

## 09. PUBLICATIONS

### (a) Thesis and Dissertation:

- 1) **Oduroye, O.A** (1988) Protein Quality Evaluation of some Maize Varieties and by products. BS.c Project.University of Ibadan, Pp 64.
- 2) **Oduroye O.A** (1990) Palatability and Protein Quality of Kilishi prepared with various ingredients. M.Sc. Thesis University of Ibadan, Pp114.
- 3) **Isah O.A** (2002) Evaluation of Rumen Waste-Based Diets in Goat Production. Ph.D. Thesis. University of Ibadan, Pp246.

### (b)Articles in Learned Journals:

1. **Isah, O. A.,** Babayemi, O. J., Yakubu, A. and Adewunmi, M. K. (1999). The Potentials of Mango and Gliricidia Leaves as Protein Supplement in Diet of West African Dwarf Goats. *Tropical Animal Production Investigations* 2(2): 35-39. **Published by University of Ibadan, Nigeria.** ISSN: 115 2540
2. Babayemi, O. J., Akinsoyinu, A. O., **Isah, O. A.,** Bamikole, M.A., and Adewunmi, M.K. (1999). Effects of Magnesium Supplement on Performance Characteristics of Lactating West African Dwarf Goats. *Tropical Animal Production Investigations* 2 (2):61-68. **Published by University of Ibadan, Nigeria.** ISSN: 115 2540
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## **10. EXTRA - CURRICULAR ACTIVITIES:**



## Reading, Singing, Sight seeing

- 11. REFEREES:** (1) Professor C. F. I. Onwuka  
Department of Animal Nutrition  
Federal University of Agriculture, Abeokuta.  
Ogun State, Nigeria.
- (2) Professor C. O. N. Ikeobi  
Department of Animal Breeding and Genetics  
Federal University of Agriculture, Abeokuta.  
Ogun State, Nigeria.
- (3) Professor. Tayo Grace  
Babcock University  
Illisan, Nigeria



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Signature

...05 – 10 – 2021...  
Date

## RESEARCH THRUST

### Preamble

Many Nigerians are poorly fed and suffer malnutrition due to lack of adequate intake of protein from animal origin. The contribution of milk and meat from ruminant livestock to infant and adult health and wellness cannot be over emphasized. However, a major determinant of the quality and quantity of meat and milk is the nutrition of the ruminant animals before slaughter. The main focus of my research activities has been in the area of ruminant animal nutrition. My interest has been on understanding how different forages and by-products with or without supplementation consumed by both large and small ruminants affect their productivity. These are done with the aim of improving their performance and productivity. My attention is however, focused on the local breeds of livestock.

My contribution to knowledge could be summarized thus:

- a. Research focus and contribution to knowledge
  - b. Other research activities
  - c. On-going research
  - d. Extension of Research finding to end - users in Rural Communities
- a. Research focus and contribution to knowledge**

My attraction to ruminant animal nutrition emanates from the realization of the ability of these animals to convert fibrous feeds such as grass, farm wastes, and agro industrial by-products into high quality nutritive products like meat and milk which are very useful to man. A major limitation to livestock production in Nigeria is scarcity of feed during the dry season. As a result, studies were carried out to update information in the following areas:

- ***Identification and nutrient analysis of non- conventional forages for ruminant feeding especially during the dry season***

In the humid and sub-humid zones of Nigeria, sheep and goats are the prevalent livestock and the animals are left to roam about freely to scavenge for food. A base line survey was conducted to identify various plants that are voluntarily browsed by these small ruminants around the homestead and it was observed that these animals consumed wide varieties of unconventional plants in small quantities. The laboratory analysis of the nutrients in some of the identified plants revealed that these plants (e.g *Albizia saman*, *Sida acuta*, *Gmelina arborea*, *Spondias mombin*, *Ficus exasperata* and a lot of others) contained some nutrients that contribute favourably to the productivity and survival of ruminants under the extensive system of management. Experiments carried out with cattle, sheep and goats fed these plants under intensive system of management recorded increased value in nutrient intake and digestibility, weight gain and other performance parameters. This probably explained reasons for decline in productivity and survival of sheep and goats when in confinement under cut and carry system of management with limited access to wide varieties of fodders. (Papers 1, 5, 21, 23, 26, 27, 28, 29, 30, 33, 34, 35, 37, 40, 42, 44, 47, 51 and 55).

- ***Use of crop residues and agro industrial by products in ruminant nutrition***

Supplementation of tropical grasses such as *Panicum maximum* and *Penisetum purpureum* with different by-products such as abattoir waste-based diets (Papers Papers 11, 12 and 14), agricultural wastes (Papers 10, 11, and 17) and urea molasses multi-nutrient blocks (Papers 18, 31 and 32) showed improvements in the nutrient intake, weight gain and some blood indices of the ruminant animals. These results indicated that the productivity of our local breeds of ruminant livestock could be improved if properly fed and managed. Also, in turning waste to wealth, residues from the farm and by- products from agro- industrial sector could be converted to good quality meat and milk products for human consumption when fed to livestock.

Furthermore, it was established that Urea- molasses block offered a cheap option of preservation of wastes and residues as feedstuff for later use during periods of scarcity and or dry spell (papers 18, 31 and 32).

- ***Methane production by cattle, sheep and goats fed different forages and by-products***

The contribution of ruminants to methane production during enteric fermentation of fibrous feed as a green house gases (GHG) is noteworthy; their roles in global warming and the effect on climate change are objects of great concern. *In vitro* analysis of various grasses using inocula from cattle, sheep and goats revealed higher volume of methane production from cattle compared to sheep and goats placed on the same grass species (Paper 19). Also, grasses tended to produce

more methane compared to browse plants, probably due to the presence of antinutritional factors like tannin and saponin in the browse plants which influenced the rumen microbial flora and their activities (Papers 23)

▪ ***Rumen microbial analysis of local breeds of ruminant***

The role of rumen microbial flora in the utilization of feed and productivity of the ruminant animals cannot be overemphasized and there is paucity of information on the identification, characterization and activities of the prevalent rumen micro flora in our local breeds of cattle, sheep and goats. This concern led to investigation of the various rumen microbes in West African dwarf (WAD) sheep and goats. Results of microbial counts of WAD goats fed elephant grass supplemented with different browse plants such as *Mmerremia aegyptia*, *Aspilia africana*, *Newbouldia laevis*, *Alchornia cordifolia* showed increase in total viable bacteria counts and lactic acid bacteria counts when forages were supplemented with browse plants while total coliform count decreased with browse consumption (Paper 37, 40, 43, and 47). However, there were some important non-culturable rumen microbes that could not be identified by the conventional culturing and counting methods employed. This realization led to a deeper probe into molecular investigation of rumen microbial flora using PCR method with 16S rRNA primers and thus far the under listed bacteria have been identified in association with the degradation of crop residues listed below. (Papers 46 and 62).

- *Ruminococcus flavefasciens* was isolated from the rumen of West African Dwarf sheep fed Panicum hay, urea-treated corn cob and urea-treated sugarcane top.
- *Ruminococcus albus* was isolated from the rumen of West African Dwarf sheep fed urea-treated sugarcane top.
- *Fibrobacter succinogenes* was isolated from the rumen of West African Dwarf fed Panicum hay, urea-treated corn cob and urea-treated sugarcane top.

▪ ***Supplementary feeding of Cattle in South Western part of Nigeria***

In recent times, the Cattle Fulani Normads are migrating southward in search of fodders for their cattle due to desert encroachment in the northern region on one hand, and the reduction in tse-tse flies infestation in the humid and sub humid regions of Nigeria on the other hand. It is now common to see the Fulani normads with their herds of cattle (about 100 – 300 heads of cattle per herd) all around. It is also becoming fashionable for big poultry farms to go into cattle, sheep and goats production in the western and southern part of the country; a kind of integrated farming. As a result of this, investigations were carried out to update information on acceptability and performance of N'dama, Muturu, White Fulani and their cross bred calves fed different browse plants as supplements to grass. Studies revealed that some browse plants such as *Mmerremia aegyptia* (morning glory), *Newbouldia laevis* and *Alchonea cordifolia* contained enough nutrients and are potential fodder crops that could be established around farmstead to be used as supplements to grass in meeting the nutrient requirements of these cattle especially during the dry season (Paper 33).

In the same vein, enhancement of roughages utilization by cattle through the use of exogenous enzymes such as *Rovabio*, as feed additive in their concentrate supplement was also investigated and improved feed intake, weight gain and N- utilization were observed (Paper 48 and 53)

**b. Other research activities**

While updating information on the identification and nutrient analysis of various non-conventional feed resources with emphasis on tropical forages, some investigations were carried out with pseudo ruminant animal like rabbits (Papers 8, 9, 16, 20 and 38).

Information has also been updated on the establishment of the **protein requirement of Giant African Land Snail {GALS}** (Paper 61).

**Forage utilization by Rabbit:** Importance of caecotrophy in rabbit nutrition especially in protein utilization was established and some of the microbial flora of rabbit's caecum was identified (M. Agric. thesis – not yet published).

**c. On-going research**

Modification of rumen environment using plant extracts for improved livestock productivity.

**d. Extension of Research finding to end - users (Livestock Farmers) in Rural Communities**

It has been discovered that the wonderful results of research works carried out in some Nigerian's citadel of learning ended up on the selves after publication in local and international books and journals. Break-through in research works are not translated to practicable usage that could bring benefits to man and the society at large. Nigeria as a country, though endowed with various natural resources, still depend largely on importation of food to feed her ever increasing populace. This concern made me to re-direct my interest to Community - based activities with Agricultural Media Resources and Extension Centre (AMREC), Cattle Production Venture (CPV) and Federal University of Agriculture, Abeokuta Conservices Ltd (FUCON) such that my research findings could be conveyed to rural livestock farmers to improve their livelihoods and alleviate their poverty level. This is done with an attempt to contribute my own quota to combat hunger and malnutrition and to ensure food security in Nigeria.



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Signature

...05 – 10 – 2021...

Date