BIOGRAPHICAL BRIEF

Dr. Ronke Yemisi ADERINBOYE

Federal University of Agriculture,
Abeokuta, Nigeria

Dr. Mrs. Ronke Y. Aderinboye is an Associate Professor in the Department of Animal Nutrition at the Federal University of Agriculture, Abeokuta, Ogun State, Nigeria. She had her first degree in Animal Science from the Ahmadu Bello University, Zaria, Kaduna State, Nigeria. Her master's and doctorate degrees were obtained from the Federal University of Agriculture, Abeokuta, Ogun State, Nigeria. Her area of specialization is Ruminant Nutrition with 12 years of experience working in Nigeria as a teacher and researcher. She has been involved in a number of collaborative projects such as, Evaluating the toxicity profile of some feed stuff fed to West African dwarf goats in sub-humid zone of Nigeria (2010-2011), Utilization of cashew nut shell liquid as a dietary strategy to manipulate rumen fermentation for improved nutritional performance (2014- 2015), Legume-based pellets as dry season feed for ruminant animals (2014-2015), Multi-nutrient feed block as supplement for dry season goat production (2014-2015) and Effects of dietary turmeric levels on rumen fermentation, nutrient utilization, performance and meat quality in West African dwarf goats (2019-2020) with funding from the Nigeria Tertiary Trust Fund (Tetfund).

Dr. Ronke Aderinboye is a fellow of the African Women in Agricultural Research and Development (AWARD), Nairobi, Kenya, and the Africa Biosciences Challenge Fund, Biosciences Eastern and Central Africa–International Livestock Research Institute, Nairobi, Kenya. She is also a mentor in the One Planet fellowship (second cohort), led and managed by AWARD and *Agropolis Fondation* with funding from the Bill & Melinda Gates Foundation, BNP Paribas Foundation, European Union and the Canada's International Development Research Centre. She is a registered Animal Scientist and a member of different professional bodies. Dr. Ronke Yemisi Aderinboye has supervised numerous undergraduate and postgraduate students. She has 58 publications in both local and international peer reviewed journals. She is married with children.

Email contacts: aderinboyery@funaab.edu.ng; aderinbry@yahoo.com

CURRICULUM VITAE

1. PERSONAL DATA

(i)	Name:	ADERINBOYE Ronke Yemisi (Nee Fajuke)
(ii)	Date of Birth:	July 14, 1973
(iii)	Place of Birth:	Sokoto, Sokoto State
(iv)	Age:	48 Years
(v)	Sex:	Female
(vi)	Marital Status:	Married
(vii)	Nationality:	Nigerian
(viii)	Town and State of Origin:	Ilesha, Osun State
(ix)	Contact Address:	Department of Animal Nutrition, Federal University of Agriculture, P. M. B 2240, Abeokuta, Ogun state, Nigeria.
(x)	Phone Numbers:	+234 (0) 903 379 5787, +234 (0) 805 656 4225
(xi)	E-mail Addresses:	aderinboyery@funaab.edu.ng aderinbry@gmail.com
(xiii)	Position:	Associate Professor

2. EDUCATIONAL BACKGROUND/QUALIFICATIONS WITH DATES:

(i)	**Educational Institutions Attended**	**Dates**
(a)	University of Agriculture, Abeokuta, Ogun State	2003 – 2007
(b)	University of Agriculture, Abeokuta, Ogun State	2000 - 2002
(c)	Ahmadu Bello University, Zaria, Kaduna State	1992 – 1998
(d)	Federal Government College, Sokoto, Sokoto State	1984 – 1990
(e)	Model Primary School, Birnin-Kebbi Road, Sokoto	1978 – 1984

(ii)	**Academic Qualifications**	**Dates**
(a)	PhD (Ruminant Nutrition)	2007
(b)	Master of Agriculture (M. Agric.)	2002
(c)	Bachelor of Agriculture (B. Agric.)	1998
(d)	West African School Certificate	1990
(e)	Primary School Leaving Certificate	1984

(iii)	**Professional Qualification**	**Date**
(a)	Registered Animal Scientist (NIAS/RAS/00526)	2010

(iv) Prizes, Honours, Scholarship, National and International Recognition

(a) Scholarship

i. African Network for Agro-forestry Education scholarship award by the International Centre for Research in Agro-forestry — 2000

(b)

International Recognition

i. **Fellow,** African Women in Agricultural Research and Development, World Agro-forestry Centre, Nairobi, Kenya — 2015

ii. **Fellow**, Africa Biosciences Challenge Fund, Biosciences Eastern and Central Africa International Livestock Research Institute, Nairobi, Kenya — 2016

iii. **Mentor,** One Planet fellowship (second cohort), led and managed by African Women in Agricultural Research and Development and *Agropolis Fondation* with funding from the Bill & Melinda Gates Foundation, BNP Paribas Foundation, European Union, and the Canada's International Development Research Centre — 2020

3. WORK EXPERIENCE

(a) Work Progression

S/N	EMPLOYER	DESIGNATION	DATE
i.	Federal University of Agriculture, Abeokuta	Reader	October 2018 to date
ii.	Federal University of Agriculture, Abeokuta	Senior Lecturer	October 2015 – October 2018
iii.	BecA-ILRI, International Livestock Research Institute, Nairobi, Kenya	Research Fellow	August 2016 – January, 2017
iv.	Federal University of Agriculture, Abeokuta	Lecturer I	October 2012 – October 2015
v.	Federal University of Agriculture, Abeokuta	Lecturer II	June 2009 – October, 2012
vi.	Federal University of Agriculture, Abeokuta	Planning Officer II	June 2006 – June 2009
vii.	Centre for Human Resource Development (CENHURD), University of Agriculture, Abeokuta	Biology Demonstrator	2004 – 2006
viii.	International Livestock Research Institute/International Institute of Tropical Agriculture (ILRI/IITA), Ibadan, Oyo State National Youth Service Corps (NYSC)	Graduate Assistant	March 1999 – February, 2000

(b) Teaching Experience at Federal University of Agriculture, Abeokuta

(i) Teaching schedule:

SESSION	COURSE CODE	COURSE TITLE	UNIT	NUMBER OF STUDENTS	CONTACT HOURS	NUMBER OF LECTURERS INVOLVED	INDIVIDUAL CONTRIBUTION (%)
2008/2009	ANN 710	Digestion and Metabolism in Ruminants	3	2	3	2	50
	ANN 716	Large Ruminant Nutrition	3	2	3	2	50

SESSION	COURSE CODE	COURSE TITLE	UNIT	NUMBER OF STUDENTS	CONTACT HOURS	NUMBER OF LECTURERS INVOLVED	INDIVIDUAL CONTRIBUTION (%)
2009/2010	ANN 303	Principles of Animal Nutrition	3	800	3	5	20
	ANN 503	Ruminant Animal Nutrition	3	500	3	3	33
	AGS 597	Seminar I	1	6	1	1	100
	AGS 598	Seminar II	1	6	1	1	100
	AGP 599	Project	4	6	1	1	100

SESSION	COURSE CODE	COURSE TITLE	UNIT	NUMBER OF STUDENTS	CONTACT HOURS	NUMBER OF LECTURERS INVOLVED	INDIVIDUAL CONTRIBUTION (%)
2010/2011	ANN 303	Principles of Animal Nutrition	3	854	3	4	25
	ANN 503	Ruminant Animal Nutrition	3	400	3	3	33
	AGS 597	Seminar I	1	5	1	1	100
	AGS 598	Seminar II	1	5	1	1	100
	AGP 599	Project	4	5	1	1	100
	ANN 710	Digestion and Metabolism in Ruminants	3	1	3	4	25
	ANN 716	Large Ruminant Nutrition	3	1	3	3	33
	ANN 717	Forage and Utilization	3	1	3	3	33

SESSION	COURSE CODE	COURSE TITLE	UNIT	NUMBER OF STUDENTS	CONTACT HOURS	NUMBER OF LECTURERS INVOLVED	INDIVIDUAL CONTRIBUTION (%)
2011/2012	ANN 303	Principles of Animal Nutrition	3	1200	3	4	25
	ANN 503	Ruminant Animal Nutrition	3	450	3	4	25
	AGS 597	Seminar I	1	5	1	1	100
	AGS 598	Seminar II	1	5	1	1	100
	AGP 599	Project	4	5	1	1	100

	ANN 710	Digestion and Metabolism in Ruminant	3	5	3	4	25

SESSION	COURSE CODE	COURSE TITLE	UNIT	NUMBER OF STUDENTS	CONTACT HOURS	NUMBER OF LECTURERS INVOLVED	INDIVIDUAL CONTRIBUTION (%)
2011/2012	ANN 716	Large Ruminant Nutrition	3	5	3	3	33
	ANN 717	Forage and Utilization	3	5	3	3	33

SESSION	COURSE CODE	COURSE TITLE	UNIT	NUMBER OF STUDENTS	CONTACT HOURS	NUMBER OF LECTURERS INVOLVED	INDIVIDUAL CONTRIBUTION (%)
2012/2013	ANN 303	Principles of Animal Nutrition	3	1650	3	4	25
	ANN 503	Ruminant Animal Nutrition	3	485	3	5	20
	AGS 597	Seminar I	1	5	1	1	100
	AGS 598	Seminar II	1	5	1	1	100
	AGP 599	Project	4	5	1	1	100
	PDA 723	Cattle Nutrition	3	2	3	1	100
	ANN 710	Digestion and Metabolism in Ruminants	3	5	3	4	25
	ANN 716	Large Ruminant Nutrition	3	5	3	3	33
	ANN 717	Forage and Utilization	3	5	3	3	33

SESSION	COURSE CODE	COURSE TITLE	UNIT	NUMBER OF STUDENTS	CONTACT HOURS	NUMBER OF LECTURERS INVOLVED	INDIVIDUAL CONTRIBUTION (%)
2013/2014	ANN 303	Principles of Animal Nutrition	3	1800	3	4	25
	ANN 503	Ruminant Animal Nutrition	3	550	3	5	20
	AGS 597	Seminar I	1	6	1	1	100
	AGS 598	Seminar II	1	6	1	1	100
	AGP 599	Project	4	6	1	1	100
	PDA 723	Cattle Nutrition	3	1	3	1	100
	ANN 710	Digestion and Metabolism in Ruminants	3	1	3	4	25
	ANN 716	Large Ruminant Nutrition	3	1	3	3	33

	ANN 717	Forage and Utilization	3	1	3	3	33

SESSION	COURSE CODE	COURSE TITLE	UNIT	NUMBER OF STUDENTS	CONTACT HOURS	NUMBER OF LECTURERS INVOLVED	INDIVIDUAL CONTRIBUTION (%)
2014/2015	ANN 303	Principles of Animal Nutrition	3	1800	3	4	25
	ANN 503	Ruminant Animal Nutrition	3	793	3	5	20
	AGS 597	Seminar I	1	8	1	1	100
	AGS 598	Seminar II	1	8	1	1	100
	AGP 599	Project	4	8	1	1	100
	PDA 723	Cattle Nutrition	3	1	3	1	100
	ANN 710	Digestion and Metabolism in Ruminants	3	5	3	4	25
	ANN 716	Large Ruminant Nutrition	3	5	3	3	33
	ANN 717	Forage and Utilization	3	5	3	3	33

SESSION	COURSE CODE	COURSE TITLE	UNIT	NUMBER OF STUDENTS	CONTACT HOURS	NUMBER OF LECTURERS INVOLVED	INDIVIDUAL CONTRIBUTION (%)
2015/2016	ANN 303	Principles of Animal Nutrition	3	1700	3	4	25
	ANN 503	Ruminant Animal Nutrition	3	807	3	5	20
	AGS 597	Seminar I	1	7	1	1	100
	AGS 598	Seminar II	1	7	1	1	100
	AGP 599	Project	4	7	1	1	100

SESSION	COURSE CODE	COURSE TITLE	UNIT	NUMBER OF STUDENTS	CONTACT HOURS	NUMBER OF LECTURERS INVOLVED	INDIVIDUAL CONTRIBUTION (%)
2016/2017	ANN 303	Principles of Animal Nutrition	3	1400	3	4	25
	ANN 304	Agricultural Biochemistry	3	1400	3	4	25
	ANN 503	Ruminant Animal Nutrition	3	950	3	5	20
	AGS 597	Seminar I	1	10	1	1	100
	AGS 598	Seminar II	1	10	1	1	100
	AGP 599	Project	4	10	1	1	100

	ANN 810	Digestion and Metabolism in Ruminants	3	6	3	4	25
	ANN 816	Large Ruminant Nutrition	3	6	3	3	33
	ANN 817	Forage and Utilization	3	6	3	3	33

SESSION	COURSE CODE	COURSE TITLE	UNIT	NUMBER OF STUDENTS	CONTACT HOURS	NUMBER OF LECTURERS INVOLVED	INDIVIDUAL CONTRIBUTION (%)
2017/2018	ANN 304	Agricultural Biochemistry	3	1109	3	4	25
	ANN 503	Ruminant Animal Nutrition	3	816	3	5	20
	AGS 597	Seminar I	1	8	1	1	100
	AGS 598	Seminar II	1	8	1	1	100
	AGP 599	Project	4	8	1	4	100
	ANN 815	Sheep and Goat Nutrition	3	4	3	3	33
	ANN 810	Digestion and Metabolism in Ruminants	3	4	3	3	33
	ANN 816	Large Ruminant Nutrition	3	4	3	3	33

SESSION	COURSE CODE	COURSE TITLE	UNIT	NUMBER OF STUDENTS	CONTACT HOURS	NUMBER OF LECTURERS INVOLVED	INDIVIDUAL CONTRIBUTION (%)
2018/2019	ANN 303	Principles of Animal Nutrition	2	1800	3	5	20
	ANN 304	Agricultural Biochemistry	2	1409	2	5	20
	ANN 503	Ruminant Animal Nutrition	3	350	3	5	20
	ANN 505	Nutrient Requirement of farm animals	2	74	2	4	25
	ANN 507	Feed Technology I	2	74	2	4	25
	AGS 597	Seminar I	1	8	1	1	100
	AGS 598	Seminar II	1	8	1	1	100
	AGP 599	Project	4	8	4	1	100
	PDA 716	Sheep and Goat Nutrition	3	10	3	2	50
	ANN 810	Digestion and Metabolism in Ruminants	3	6	3	3	33
	ANN 816	Large Ruminant Nutrition	3	6	3	3	33

SESSION	COURSE CODE	COURSE TITLE	UNIT	NUMBER OF STUDENTS	CONTACT HOURS	NUMBER OF LECTURERS INVOLVED	INDIVIDUAL CONTRIBUTION (%)

2019/2020	ANN 313	Principles of Animal Nutrition	2	630	2	5	20
	ANN 503	Ruminant Animal Nutrition	2	390	2	5	20
	ANN 505	Nutrient Requirement of farm animals	2	98	2	4	25
	ANN 515	Nutrigenomics	2	31	2	3	33

SESSION	COURSE CODE	COURSE TITLE	UNIT	NUMBER OF STUDENTS	CONTACT HOURS	NUMBER OF LECTURERS INVOLVED	INDIVIDUAL CONTRIBUTION (%)
2019/2020	AGS 597	Seminar I	1	8	1	1	100
	AGS 598	Seminar II	1	8	1	1	100
	AGP 599	Project	4	8	4	1	100

4. SPECIAL ASSIGNMENTS/COMMUNITY SERVICE

(A) Institutional/College Assignments

i. Member, College Board, College of Animal Science and Livestock Production — 2009 to date

ii. Representative of College of Animal Science and Livestock Production on College of Food and Human Ecology Board — 2013 to date

iii. Member, Small Ruminant Technical Committee — 2014 to date

iv. External Examiner, Department of Animal Health and Production Technology, Federal College of Animal Health and Production Technology, Moor Plantation, Ibadan — 2017 - 2018

(B) Departmental Assignments

i.	Postgraduate Coordinator	2017 to date
ii.	Course Coordinator for ANN 811	2019/2020 session
iii.	Course Coordinator for ANN 515	2019/2020 session
iv.	Course Coordinator for ANN 507	2018 to date
v.	Course Coordinator for ANN 304	2016 - 2018
vi.	Course Coordinator for ANN 503	2011 - 2017
vii.	UndergraduateSeminar Coordinator	2011 - 2017
viii.	Departmental Adviser for 100 level students	2016/2017 session
ix.	Departmental Adviser for 300 level students	2015/2016 session
x.	Departmental Adviser for 200 level students	2014/2015 session
xi.	Departmental Adviser for 100 level students	2013/2014 session
xii.	Departmental Adviser for 500 level students	2012/2013 session
xiii	Departmental Adviser for 400 level students	2011/2012 session
xiv	Departmental Adviser for 300 level students	2010/2011 session

(C) Community Service

i.	National Treasurer, Nigeria Women in Agricultural Research for Development	August 2020 to date
ii.	Bible Study Coordinator, His Dwelling Place, Asero, Abeokuta, Nigeria	2012 to date
iii.	Reviewer for Journals:	
	• Nigerian Journal of Animal Production	2010 to date
	• Tropical Animal Health and Production	2011 to date
iv.	Member, Women's Forum, His Dwelling Place, Asero, Abeokuta, Nigeria	2005 to date
v.	Member, Local Organizing Committee, 5th Annual General Meeting/Conference of the Nigeria Women in Agricultural Research for Development	September 13 - 14, 2017
vi.	Member, Local Organizing Committee, 40th Annual Conference of the Nigerian Society forAnimal Production	March 2016
vii.	Member, Local Organizing Committee,7th Annual Conference of the Animal Science Association of Nigeria	September 16 - 19, 2002
viii.	Member, Electoral Committee, Postgraduate Students'Association,University ofAgriculture, Abeokuta	2001

5. TRAINING PROGRAMMES WITH DATES

(A) Training programmes attended with dates:

i.	Research Diagnostic Survey Training organized by Research and Development Centre in collaboration with Agricultural Media Resource and Extension Centre	November 2009
ii.	Training workshop on Statistical Analysis and Data Management organized by Federal University of Agriculture, Abeokuta, Universal Conservices Limited	April 10 - 12, 2013
iii.	Mentoring Orientation Workshop organized by African Women in Agricultural Research and Development Nairobi, Kenya	February 16 - 20, 2015
iv.	Training course on Introductory Biotechnology at the Federal University of Agriculture, Abeokuta supported by the Gates Foundation	March 11 - 13, 2015
v.	Advanced Digital Appreciation Programme for Tertiary Institutions organized by Digital Bridge Institute at the Federal University of Agriculture, Abeokuta	May 11 - 15, 2015

vi. Science Skills Course organized by African Women in Agricultural Research and Development Accra, Ghana — July 12 - 18, 2015

vii. African Women in Agricultural Research and Development West Africa Region Progress Monitoring Meeting held in Accra, Ghana — April 27 - 28, 2016

viii. Women Leadership and Management Course held in Accra, Ghana — June 19 -24, 2016

ix. Advanced Science Training at the Biosciences Eastern and Central Africa-International Livestock Research Institute Hub, Nairobi, Kenya — August 2016 - January 2017

x. African Women in Agricultural Research and Development Progress Monitoring Meeting held in Kampala, Uganda — May 9 - 10, 2017

xi. Workshop organized by the Centre for Innovation and Strategy in Learning and Training (CISLT) in collaboration with EU/IU Tuning Africa programme on Improving the Assessment of Learners' Competencies in Agricultural Course held at Federal University of Agriculture, Abeokuta, Nigeria — October 24, 2017

xii. Research Writing in the Sciences, Online Course organized by International Network for Advancing Science and Policy (INASP), United Kingdom moodle.inasp.info/mod/customers/verify_certificate.php (verification code,vTClgPaeTC) — July 6 - August 17, 2020

xiii. Basics of grant proposal writing, Online tutorials organized by INASP, United Kingdommoodle.inasp.info/mod/customcert/verify_certificate.php (verification code,HtyOsVtb3k) — July 24, 2020

xiv. Masters' eBook creation and publication training organized by Write-For-Me — January 9 - 29, 2021

(B) Trainings and Workshops Organized with dates:

i. African Women in Agricultural Research Role-modelling event,Seminar organized for students atFederal College of Education, Osiele, Abeokuta in collaboration with Dr. (Mrs.) M. A. Adegunwa, Department of Hospitality and Tourism — February 6, 2017

ii. Seminar programme organized in conjunction with the Biotechnology Centre, Federal University of Agriculture, Abeokuta for research scientists within the University community on training programmes, workshops,and research collaboration opportunities with Biosciences Eastern and Central Africa,International Livestock Research Institute, Nairobi, Kenya — March 17, 2017

iii. Online training course on Basic eBook self-publishing for writers — January 19 - 21, 2021

6. COMMENDATIONS

i. Letter of Commendation for commitment to duty, good working relationship and capacity for hard workissued by the Director of Academic Planning — 2007

ii. Letter of Commendation for commitment to duty, great sense of responsibility and role in major assignments of the unit and good working relationship issued by the Director of Academic Planning — 2008

7. MEMBERSHIP OF PROFESSIONAL BODIES

(a) Nigerian Institute of Animal Science
(b) Animal Science Association of Nigeria
(c) Nigeria Society for Animal Production
(d) British Society of Animal Science
(e) International Goat Association
(f) African Women in Agricultural Research and Development
(g) Nigerian Women in Agricultural Research for Development

8. RESEARCH INTEREST

(A) Research completed:

(i) Evaluation of cinnamon powder as phytogenic additive for mitigating methane emission in the rumen

(ii) Metagenomic analysis of rumen microbial population in West African dwarf goats fed diets containing varying levels of cashew nut shell liquid

(iii) Utilization of cashew nut shell liquid as a dietary strategy to manipulate rumen fermentation for improved nutritional performance of ruminants.

(B) Research in progress:

(i) Evaluation of different spices as natural rumen modifiers for mitigating nutritional losses in ruminants.

(ii) Effect of orange peels as feed additive in varying forage to concentrate ration for ruminants.

9. UNIVERSITY EXTENSION ACTIVITY

i. Extension visit to the Young Farmers Club, Nawarudeen Secondary School, Obantoko, Abeokuta, organized by Agricultural Media Resources and Extension Centre, Federal University of Agriculture, Abeokuta, Ogun State
Talk delivered on Feeding and Care of Small Ruminants July 30, 2019

10. PUBLICATIONS

(a) Project/Dissertation/Thesis

1. **Fajuke, R. Y**. 1998. A survey of Turkey Production in Zaria. B. Sc. Project. Department of Animal Science, Faculty of Agriculture, Ahmadu Bello University, Zaria, Nigeria. pp. 58

2. **Fajuke, R.Y.** 2002. Influence of rumensin-based supplement on performance of West African dwarf sheep fed *Gmelina arborea* leaves. M. Sc Dissertation, Department of Animal Nutrition, University of Agriculture, Abeokuta, Nigeria. pp. 60

3. **Aderinboye, R. Y.** 2007. Effect of monensin supplementation on utilization and ruminal degradation of *Panicum maximum* and *Gmelina arborea* forages. PhD Thesis. Department of Animal Nutrition, University of Agriculture, Abeokuta, Nigeria. pp. 216

(b) Articles in learned Journals

1. **Fajuke**, **R. Y.,** Onwuka, C. F. I., Aina, A. B. J. and Oduguwa, O. O. 2006. Effect of monensin supplementation on the performance of West African dwarf sheep fed *Gmelina arborea* leaves. ***ASSET Series A,*** 6 (2): 245-254. Published by Federal University of Agriculture, Abeokuta.

2. **Aderinboye**, **R. Y.,** Onwuka. C. F. I., Aina, A. B. J. and Oduguwa, O. O. 2010. Influence of monensin on intake of some anti-nutritive components in diets fed to West African dwarf goats. ***Nigerian Journal of Animal Production,*** 37 (2): 218–226. Published by Nigerian Society for Animal Production. Available online at https://njap.org.ng/index.php/njap/article/view/1350/1183.

3. **Aderinboye, R. Y.**, Onwuka, C. F. I., Arigbede, O. M., Aina., A. B. J., Oduguwa, O. O. and Taiwo, A. A. 2011. Rumen degradation characteristics of two tropical forages supplemented with monensin in the rumen of N'dama Steer. ***Nigerian Journal of Animal Production****, 38 (2): 139 – 147.* Published by Nigerian Society for Animal Production. Available online at https://www.ajol.info/index.php/njap/article/view/117058.

4. Isah, O. A., **Aderinboye, R. Y.** and Enogieru, V. A. 2011. Effect of anti-nutritional factor on rumen bacteria of West African dwarf goats fed tropical browse species and crop by-products. ***Journal of Agricultural Science and Environment****,*11 (1): 50 –

58. Published by the Federal University of Agriculture, Abeokuta. Available online at https://journal.unaab.edu.ng/index.php/JAgSE/issue/archive.

5. Arigbede, O. M., Anele, U. Y., **Aderinboye**, **R. Y.,** Dele, P. A. and Oni, A. O. 2011. Dry matter and protein degradabilities of some feed ingredients sold in Abeokuta, Ogun State, Nigeria. ***Journal of Agricultural Science and Environment,*** 11 (1): 90 – 98. Published by Federal University of Agriculture, Abeokuta. Available online at https://journal.unaab.edu.ng/index.php/JAgSE/issue/archive.

6. **Aderinboye, R. Y.**, Onwuka, C. F. I., Arigbede, O. M., Oduguwa, O. O., Aina, A. B. J. 2012. Effect of dietary monensin inclusion on performance, nutrient utilisation, rumen volatile fatty acid concentration and blood status of West African dwarf bucks fed with basal diets of forages. ***Tropical Animal Health and Production,*** 44 (5): 1079-1087 DOI 10.1007/s11250-011-0043-7 Published by Springer academic publishing company, United Kingdom. Available online at http://www.springerlink.com/content/00gnu66x33g51151/?MUD=MP.(**Listed in Scopus and SCImago**)

7. Isah, O. A., Fayemi, P. O., Gazaly, M. B. and **Aderinboye, R. Y.** 2012. Nutritional characteristics of four browse plants consumed by free-ranging ruminants in western part of Nigeria. ***African Journal of Agricultural Research,***7 (12): 1944 – 1949 DOI: 10.5897/AJAR11.2076. Published by Academic Journals. Available online at http://www.academicjournals.org/AJAR. (**Listed in SCImago**)

8. Ojo, V. O. A., Aina, A. B. J., Fasae, O. A., Oni, A. O., **Aderinboye**, **R. Y.,** Dele, P. A., Idowu, O. J., Adelusi, O. O., Shittu, O. O., Okeniyi, F. A., Jolaosho. A. O. 2014. Effects of supplementing *Leucaena leucocephala* and conserved forages from natural pasture on the performance of grazing calves. ***Tropical Animal Health and Production,*** 46 (1): 197 – 202. DOI: 10.1007/s11250-013-0476-2. Published by Springer, UK. Available online at http://link.springer.com/article/10.1007%2Fs11250-013-0476-2. (**Listed in Scopus and SCImago**)

9. Sanwo, K. A., Iposu, S. O., Okwelum, N., **Aderinboye, R. Y.**, Oso, A. O., Fanimo, A. O. and Abiola, S. S. 2014. Growth performance, nutrient intake, digestibility and carcass characteristics of goats fed melon husk (*Colocynthis citrillus*) and palm oil slurry (*Elaeis guineensis*) at 50% inclusion level. ***Nigerian Journal of Animal Production,***41 (1): 41 - 49.Published by Nigerian Society for Animal Production.

10. **Aderinboye, R. Y**., Akintade, O. A., Adelusi, O. O., Yusuf, K. O., Ojo, V. O. A., Oni, A. O., Isah, O. A. and Aduku, A. O. 2014. Rumen bacterial population of West African dwarf sheep fed supplemental concentrate diets containing raw, wood ash-treated and oil-extracted cashew nut shell. ***Nigerian Journal of Animal Science,***16 (1, 2): 94 - 105. Published by Animal Science Association of Nigeria.

11. Oni, A. O., Sowande, O. S., Oni, O. O., **Aderinboye, R. Y.,** Dele, P. A., Ojo, V. O. A. Arigbede, O. M. and Onwuka, C. F. I. 2014. Effect of additives on fermentation of cassava leaf silage and ruminal fluid of West African dwarf goats. ***Archivos de Zootecnia,*** 63: 449 – 459. Published by University of Cordoba, Spain. Available online at http://dx.doi.org/10.4321/S0004-05922014000300006. (**Listed in SCImago**).

12. Okunade, S. A., Isah, O. A., **Aderinboye, R. Y.** and Olafadehan, O. A. 2014. Assessment of chemical composition and in vitro degradation profile of some guinea savannah browse plants of Nigeria. ***Tropical and Subtropical Agroecosystems,*** 17: 529 – 538. Published by Universidad Autonoma de Yucatan, Mexico. Available online athttp://www.revista.ccba.uady.mx/ojs/index.php/TSA/article/view/2017. (**Listed in Scopus and SCImago**).

13. **Aderinboye**, **R. Y.,** Oladeji, O. T., Abaire, M. A. Sobayo, R. A., Oso, A. O., Oni, A. O., Yusuf, K. O., S. O. Oshoand A. M. Bamgbose. 2015. Performance of weaner rabbits fed a concentrate diet supplemented with pawpaw leaves. ***Tropical Animal Health and Production,***47 (2): 323 – 329 DOI: 10.1007/s11250-014-0723-1. Published by Springer academic publishing company, United Kingdom. Available online at http://link.springer.com/article/10.1007/s11250-014-0723-1. (**Listed in Scopus and SCImago**)

14. Isah, O. A., Okunade,S. A., **Aderinboye, R. Y.** and Olafadehan, O. A. 2015. Effect of browse plant foliage supplementation on the performance of buckling goats fed threshed sorghum top based diet. ***Tropical Animal Health and Production,*** 47 (6): 1027 – 1032 DOI: 10.1007/s11250-015-0823-6. Published by Springer academic publishing company, United Kingdom. Available online at http://link.springer.com/article/10.1007/s11250-015-0823-6. (**Listed in Scopus and SCImago**)

15. Olagoke, K. O., **Aderinboye, R. Y**., Onwuka, C. F. I. and Ojo, V. O. A. 2015. Intake and digestibility of nutrients by WAD goats fed diets containing varying levels of cashew nut shell liquid inclusion. ***Bulletin of Animal Health and Production in Africa,***63 (4): 461 – 465. Published by *African* Union Interafrican Bureau for *Animal* Resources (AU-IBAR), Nairobi, Kenya. Available online athttps://www.ajol.info/index.php/bahpa/article/view/150397.

16. Yusuf, K. O., Adebesin, O. A., Sanni, A. Y., **Aderinboye, R. Y**., Oni, A. O., and Isah, O. A. 2015. Performance of West African Dwarf Goats fed maize stover based diet supplemented with Roxazyme G2® in the dry season in Abeokuta, Nigeria. ***Nigerian Journal of Animal Production,42*** (2): 174 – 179. Published by Nigerian Society for Animal Production.

17. **Aderinboye, R. Y.,** Akinlolu, A. O., Adeleke, M. A., Najeem, G. O., Ojo, V. O. A., Isah, O. A. and Babayemi, O. J. 2016. In vitro gas production and dry matter degradation of four browse leaves using cattle, sheep and goat inocula.***Slovak Journal of Animal Science,*** 49 (1): 32 – 43. Published by Research Institute for Animal Production, Nitra, Slovak Republic. Available online at http://www.vuzv.sk/slju/16_1/5_Aderinboye.pdf

18. Yusuf, K. O., Ajeigbe, O. M., Oyebo, A. T., **Aderinboye, R. Y**., Adelusi, O. O. and Onwuka C. F. I. 2017. Nutrients and anti-nutrients content of some crop by-products and residues for ruminant feeding in Nigeria. ***Journal of Animal Production Research,***29 (1): 249 – 262. Published by National Animal Production Research Institute, Ahmadu Bello University, Zaria. Available online at http://journals.napri.gov.ng/index.php/japr/article/view/195

19. Ojo, V. O. A., Akinade, G. A., Adetokunbo, G. A., Lamidi, A. A., Jolaosho, A. O., **Aderinboye, R. Y**., Amole, T. A., Akinbode, R, M, Okukenu, O. A. and Idowu, O.

J. 2017. Silage quality of Pennisetum purpureum Schumach. grass mixed with processed *Enterolobium cyclocarpum* (Jacq.) Griseb. seeds at varying proportions as affected by ensiling periods. ***Tropical Agriculture,*** 94 (4): 362 – 371. Published by University of West Indies. Available online https://journals.sta.uwi.edu/ta/index.asp?action=article&articleId=6534. (**Listed in SCImago**)

20. **Aderinboye, R. Y**., Njuguna, J., Machuka, E., Adebayo, K. O., Olagoke, K. O. and Stomeo, F. 2017. Effect of dietary inclusion of cashew nut shell liquid on metabolic functions of rumen bacteria in West Afrcian dwarf goats. ***Nigerian Journal of Biotechnology,*** 34 (1): 117 - 124.Published by Biotechnology Society of Nigeria. Available online at https://www.ajol.info/index.php/njb/issue/view/16695.

21. **Aderinboye, R. Y**., Busari, A. A., Olaoye, O. N., Adelusi, O. O., Adebayo, K. O. and Onwuka, C. F. I. 2018. Effect of dietary inclusion of cashew nut shell liquid on *in vitro* and *in vivo* protein digestibility and utilization in West African dwarf goats. ***Nigerian Journal of Animal Production,***45 (1): 325 – 334.Published by Nigerian Society for Animal Production.

22. Adelusi, O. O., Oni, A. O., **Aderinboye, R. Y**., Arigbede, O. M. and Onwuka, C. F. I. 2018. Effects of coconut oil on the weight and blood status of grazing cattle fed concentrate as supplementary feed. ***Nigerian Journal of Animal Production,***45 (2): 316 – 324.Published by Nigerian Society for Animal Production.

23. Oyaniran, D. K., Ojo, V. O. A., **Aderinboye, R. Y**., Bakare, B. A. and Olanite, J. A. 2018. Effect of pelleting on nutritive quality of forage legumes. ***Livestock Research for Rural Development,*** 30 (4): *Article #75. Published by Fundacion Centro para la Investigacion en Sistem as Sostenibles de Produccion Agropecuaria (CIPAV), Cali, Colombia.* Available online at http://www.lrrd.org/lrrd30/4/oyani30075.html(**Listed in Scopus and SCImago**)

24. **Aderinboye, R. Y**., Idowu, A. P., Obagidi, A., Adebayo, K. O., Adelusi, O. O, Oyewusi, I. K. and Onwuka, C. F. I. 2018. Effect of dietary cashew nut shell liquid on the performance, nutrient digestibility and blood constituents of West African dwarf goats. ***Bulletin of Animal Health and Production in Africa,***66 (2): 341 – 351. Published by *African* Union Interafrican Bureau for *Animal* Resources (AU-IBAR), Nairobi, Kenya.

25. **Aderinboye, R. Y**., Adebayo, S. T., Ojo, V. O. A., Adebayo, K. O. and Isah, O. A. 2018. Influence of growth stage of *Panicum maximum* on the nutrient composition, in vitro digestibility and energy value for ruminants. ***Journal of Animal Production Research,***30 (1):113 – 122. Published by National Animal Production Research Institute, Ahmadu Bello University, Zaria, Nigeria. Available online at http://journals.napri.gov.ng/index.php/japr/issue/view/23/showToc.

26. Oyaniran, D. K., Ojo, V. O. A., **Aderinboye, R. Y**., Adelusi, O. O., Ogunsakin, A. O. and Olanite, J. A. 2018. Performance, digestibility and nitrogen utilization of West African dwarf sheep fed *Panicum maximum* with supplemental legume pellets. ***Slovak Journal of Animal Science,*** 51 (3): 104 – 110. Published by Research Institute for Animal Production, Nitra, Slovak Republic. Available online at http://www.cvzv.sk/slju/18_3/2_oyaniran.pdf.

27. Adebayo, K. O., Usman, A. O., **Aderinboye, R. Y**., Adelusi, O. O., Akinbode, R. M. and Onwuka, C. F. I. 2018. Rumen fermentation Characteristics and blood profile of West African dwarf goats fed urea-treated crop by-products in the dry season. ***Nigerian Agricultural Journal,***49 (1): 76 – 84. Published by Agricultural Society of Nigeria (ASN). Available online at http://www.ajol.info/index.php/naj.

28. Adebayo, K. O., Akinbode, R. M., Ojo, V. O. A., **Aderinboye, R. Y**., and Onwuka, C. F. I. (2019). Effect of different processing methods on chemical composition and *in vitro* gas production of some browse plants for ruminant feeding. ***Nigerian Journal of Animal Science,*** 21(2): 165 – 174. Published by Animal Science Association of Nigeria (ASAN).

29. Adebayo, K. O., **Aderinboye, R. Y**., Sanwo, K. A., Oyewusi, I. K. and Isah, O, A. 2019. Microbial population and blood parameters of West African dwarf goats fed scent leaf (Ocimumgratissimum) as additive. ***Nigerian Journal of Animal Production,*** 46 (1): 225 – 235. Published by Nigerian Society for Animal Production (NSAP).

30. Ojo, V. O. A., Oyaniran, D. K., Ogunsakin, A. O., **Aderinboye, R. Y**., Adelusi, O. O. and Odusoga, F. S. 2019. Effect of supplementing herbaceous forage legume pellets on growth indices and blood profile of West African dwarf sheep fed Guinea grass. ***Tropical Animal Health and Production,***51 (2): 867 – 877. Published by Springer academic publishing company, United Kingdom. Available online at https://doi.org/10.1007/s11250-018-1767-4.(**Listed in Scopus and SCImago**)

31. Adebayo, K. O., **Aderinboye, R. Y**., Sanwo, K. A., Oyewusi, I. K. and Isah, O. A. 2019. Growth performance and fecal worm egg count of West African dwarf goats fed diets containing varying levels of *Ocimum gratissimum* (Scent leaf) ***Livestock Research for Rural Development,*** 31 (8): *Article #124. Published by Fundacion Centro para la Investigacion en Sistem as Sostenibles de Produccion Agropecuaria (CIPAV), Cali, Colombia.* Available online at www.lrrd.org/lrrd31/8/yomow31124.html.(**Listed in Scopus and SCImago**)

32. Fasae, O. A., Abiola, M. M., Fabunmi, T. O., Yusuf, A. O., Aderinboye, R. Y. and Fakoya, E. O. 2019. Yield and nutrient composition of fertilized maize as fodder for ruminant production. Nigerian Journal of Animal Production 46 (2): 219 –227. Published by Nigerian Society for Animal Production (NSAP).Available online at https://doi.org/10.51791/njap.v46i2.38.

33. Adekeye, A. B., Onifade, O. S., Amole, G. T., **Aderinboye, R. Y.** and Jolaosho, O. A. 2020. Water use efficiency and fodder yield of maize (*Zea mays*) and wheat (*Triticum aestivum*) under hydroponic condition as affected by sources of water and days to harvest. ***African Journal of Agricultural Research,*** 16 (6): 909 – 915https://doi.org/10.5897/AJAR2019.14503.(**Listed in SCImago**)

34. Adetunji, A. P., **Aderinboye, R. Y**., Adebayo, O. A., Ojo, V. O. A. Idowu, P. A. 2020. Effect of cashew nut shell liquid at varying levels on rumen fermentation and methane production *in vitro*. ***Journal of Animal Behaviour and Biometeorology,*** 8: 82 – 87. Published by Malque publishing, Brazil. Available online at https://doi.org/10.31893/jabb.20011. (**Listed in Scopus**)

35. **Aderinboye, R. Y.,** Salami, T. A., Adelusi, O. O., Adebayo, K. O., Akinbode, R. M. and Onwuka, C. F. I. 2020. Effect of cinnamon powder on methane emission and degradation of maize stover-based substrate in an *in vitro* medium. ***Livestock Research for Rural Development****,* 32 (6): *Article #90. Published by Fundacion Centro para la Investigacion en Sistem as Sostenibles de Produccion Agropecuaria (CIPAV), Cali, Colombia.* Available online at http://www.lrrd.org/lrrd32/6/aderi32090.html.(**Listed in Scopus**)

36. Adebayo, K. O., Olagoke, F. T., Akinbode, R. M. and **Aderinboye, R. Y**. 2021. Effect of *Petiveria alliacea* (guinea hen weed) leaf extract on methane production and rumen fermentation in vitro. ***Livestock Research for Rural Development****,* 33 (2): Article #27. Published by Fundacion Centro para la Investigacion en Sistem as Sostenibles de Produccion Agropecuaria (CIPAV), Cali, Colombia. Available online at http://www.lrrd.org/lrrd33/2/yomo3327.html. (**Listed in Scopus**)

37. **Aderinboye,R. Y.** and Olanipekun, A. O. 2021. An *in-vitro* evaluation of the potentials of turmeric as phytogenic feed additive for rumen modification. ***Nigerian Journal of Animal Production****,*48 (3): 193 – 203.Published by Nigerian Society for Animal Production.Available online at https://doi.org/10.51791/njap.v48i3.2950.

38. Salami, S. A., Isah, O. A., **Aderinboye, R. Y**., Ajayi, L. O. and Ashi, S. 2021. Impact of caecotrophy on the performance, nutrient digestibility and blood parameters of growing rabbits. ***Nigerian Journal of Animal Production****,*48 (2): 140 – 147.Published by Nigerian Society for Animal Production.

39. Usman, S., Dele, P. A., Jimoh, S. O., **Aderinboye, R. Y.** and Olanite, J. A. 2021. Physical, fermentative and nutritional quality of silage made from three Sorghim bicolar varieties as affected by ensiling duration in South-west Nigeria. ***Tropical Animal Health and Production****,* 53: 239. Available online at https://doi.org/10.1007/s11250-021-02657-8. (**Listed in Scopus and SCImago**)

40. Akinbode, R. M., Adebayo, K. O., **Aderinboye, R. Y**., Adefalujo, H. D. and Akiode, H. O. 2021. Nutrient digestibility, nitrogen balance and rumen fermentation parameters of West African dwarf goats offered treated maize stover supplemented with *Gmelina arborea*. ***Journal of Agriculture and Rural Development in the Tropics and Subtropics****,*122 (1): 73 – 81.Available online at https://www.jarts.info/index.php/jarts/article/view/202104133653. (**Listed in SCImago**)

41. **Aderinboye, R. Y.** and Agunloko, O. O. Effect of turmeric (*Curcuma longa*) feed additive on growth performance, haematological and serum biochemical constituents of West African dwarf goats. ***Journal of Animal Production Research****,*33 (1): In press. Published by National Animal Production Research Institute, Ahmadu Bello University, Zaria, Nigeria, (Acceptance letter dated June 30, 2021).

11. *Refereed Conference Proceedings*

42. Olugbemi, T. S., **Fajuke, R. Y**., Bawa, G. S., Amos, T. T., Duru, S. and Akpa, G. N. 1999. Turkey Production in Zaria. **Proceedings 26th Annual Conference of the**

Nigerian Society for Animal Production (NSAP). J. K. Joseph, B. Awosanya, D. F. Apata, M. A. Belewu, J. O. Atteh and K. L. Ayorinde (Eds.) 131-133. Published by NSAP.

43. Bemji, M. N., **Fajuke, R. Y**. and Osinowo, O. A. 2003. Social dominance in Goats: Effect of breed and horn size. **Proceedings 28th Annual Conference of the Nigerian Society for Animal Production (NSAP).** 141-143. Published by NSAP

44. **Aderinboye, R. Y.** and Onwuka C. F. I.2008. Effect of monensin inclusion on ruminal degradation of *Gmelina arborea* foliage. **Proceedings 42nd Annual Conference of Agricultural Society of Nigeria (ASN)** 612 – 617. Published by ASN

45. **Aderinboye, R. Y.**, Onwuka C. F. I.., Aina, A. B. J. and Oduguwa O. O. 2009. Effect of dietary monensin inclusion on selected haematological parameters in West African dwarf goats. **Proceedings 14th Annual Conference of the Animal Science Association of Nigeria (ASAN)** J. A. Akinlade, T. B. Olayeni, T. A. Rafiu, A. O. Akinwunmi, O. A. Aderinola, O. O. Ojebiyi, A. A. Odunsi (Eds.) 619 - 621. Published by ASAN

46. **Aderinboye,R. Y.** and Onwuka, C. F. I. 2010. Regulatory effect of monensin on feed intake and weight gain in West African dwarf sheep fed high forage diet. **Proceedings 35th Annual Conference of the Nigerian Society for Animal Production (NSAP)**. O. J. Babayemi, O. A. Abu and E. O. Ewuola (Eds.) 524 - 526. Published by NSAP.

47. **Aderinboye, R. Y.,** Ekuntakoro, S. O. and Onwuka C. F. I. 2011. Chemical composition of the leaves, twigs and pods of *Moringa oleifera.* **Proceedings 36th Annual Conference of the Nigerian Society for Animal Production(NSAP)**. A. A. Adeniji, E. A. Olatunji and E. S. Gana (Eds.) 498 – 500. Published by NSAP.

48. Sobayo, R. A., Oso, A. O., Fafiolu, A. O., **Aderinboye, R. Y**., Jegede, A. V., Dairo, O. U. and Iyerima, R. B. 2011. Growth response and apparent nutrient digestibility of broiler chickens fed diets containing ethanol cum lime treated castor oil seed (*Ricinus communis, L*) meal. **Proceedings 36th Annual Conference of the Nigerian Society for Animal Production (NSAP).** A. A. Adeniji, E. A. Olatunji and E. S. Gana (Eds.) 466 - 468. Published by NSAP.

49. Adelusi, O. O., Isah, O. A., Oni, A. O., **Aderinboye**, **R. Y.,** Ojo, V. O. A., Yusuf, K. O., Idowu, O. J., Dele, P. A. and Omoniyi, L. A. 2012. Rumen fermentation kinetics of *Azadirachta indica* and *Spondias mombin* leaf supplement by West African dwarf goats. **Proceedings 46th Annual Conference of the Agricultural Society of Nigeria (ASN).** J. M. Jibrin, M. A. Hussaini, B. M. Auwala, E. U. Essiet, I. R. Muhammad, S. G. Muhammad, M. I. Daneji, Y. Garba and S. A. Pantami (Eds.) 474 – 477. Published by ASN.

50. Adelusi, O. O., Isah, O. A., Onwuka, C. F. I., Oni, A. O., **Aderinboye**, **R. Y.,** Dele, P. A., Idowu, O. J. Ojo, V. O. A. and A. O. Yusuf. 2012. Intake and digestibility of *Newbouldia laevis* and *Spondias mombin* leaves by West African dwarf goats. **Proceedings 46th Annual Conference of the Agricultural Society of Nigeria (ASN).** J. M. Jibrin, M. A. Hussaini, B. M. Auwala, E. U. Essiet, I. R. Muhammad, S. G.

Muhammad, M. I. Daneji, Y. Garba and S. A. Pantami (Eds.) 478 – 481. Published by ASN.

51. **Aderinboye, R. Y.**, Ojo, V. O. A. and Adelusi, O. O. 2013. Comparative evaluation of the nutritive value of *Moringa oleifera* and some browse species fed to ruminants. **Proceedings 38th Annual Conference of the Nigerian Society for Animal Production (NSAP).** B. M. Oruwari, J. P. Alawa, U. I. Oji, O. J. Owen and O. S. George (Eds.) 402 – 405. Published by NSAP.

52. **Aderinboye**, **R. Y.,** Nwoke U. K., Onwuka, C. F. I., Isah, O.A., Oni, A. O. Bolaji, O. J. and Oduguwa. B. O. 2013. Evaluation of *Moringa oleifera* leaves, twigs and pods as supplemental feed resource for sheep on grass-based diet. **Proceedings of the British Society of Animal Science and the Association of Veterinary Teaching and Research Work (BSAS/AVTRW)**. S. Athanasiadou , A. S. Chaudhry, M. Denwood, D. P. Eckersall, J. Flockhart, D. A. Kenny, T. King, A. Mather, R. W. Mayes, D. M. Nash, R. I. Richardson, J. A. Rooke, M. T. Rose, C. Rymer, K. Sinclair, M. A. Steele, S. Waters, B. T. Wolf, A. R. G. Wylie (Eds.) p. 58. Published by Cambridge University Press. United Kingdom

53. Ojo, V. O. A., Jolaosho, A. O., Arigbede, O. M., Dele, P. A., Adeoye, S. A., **Aderinboye, R. Y.**, Idowu, O. J. and Adelusi, O. O. 2013. Nutritive quality of hay and silage from natural grazing land in south western Nigeria. **Proceedings 22nd International Grassland Congress**. D. L. Michalk, G. D. Millar, W. B. Badgery, K. M. Broadfoot (Eds.) 756 – 757. Published by NSW Department of Primary Industries. Australia

54. Adelusi, O. O., Isah, O. A., Onwuka, C. F. I., Idowu, O. J., Ojo, V. O. A. and **Aderinboye, R. Y.** 2014.Performance, apparent digestibility and nitrogen balance of West African dwarf goats fed ground tree leaves as additive. **Book of Abstract of the 3rd Animal Science Association of Nigeria-Nigerian Institute of Animal Science (ASAN-NIAS) Joint Annual Meeting.** p. 40. Published by ASAN.

55. **Aderinboye, R. Y***.,* Olaleye, O. J., Dele, P. A., Ojo, V. O. A., Isah, O. A., Oni, A. Oand Yusuf, K. O. 2014. Evaluation of the mineral content of *Andropogon tectorum* grass conserved as hay or silage for ruminant feeding. **Book of Abstract of the 3rd Animal Science Association of Nigeria-Nigerian Institute of Animal Science (ASAN-NIAS) Joint Annual Meeting**. pp 40 – 4. Published by ASAN.

56. Yusuf, K. O., Akinyosoye, E. A., Ojo, V. O. A., **Aderinboye,R. Y.,** Isah, O. A., Onwuka C. F. I. 2015. Effect of enzyme additive on in vitro gas production and dry matter degradability of total mixed rations. **Proceedings of the British Society of Animal Science in association with AVTRW, CFER and EBLEX.** S. Athanasiadou, A. S. Chaudhry, S. Chikunya, M. Denwood, J. Flockhart, R. Flynn, J. Gibbons, J. G. M. Houdijk, D. A. Kenny, A. Mather, R. W. Mayes, T. McNeilly, D. M. Nash, R. I. Richardson, J. A. Rooke, M. T. Rose, M. A. Steele, C. Rymer, E. Wall, B. T. Wolf, A. R. G. Wylie (Eds.) p. 103. Published by Cambridge University Press, United Kingdom.

57. Adelusi, O. O., Onwuka, C. F. I., Idowu, O. J., **Aderinboye, R. Y**. Ojo, V. O. A., 2015. *In vitro* gas production and methane reduction in *Panicum maximum* incubated with Palm kernel oil. **Proceedings of the British Society of Animal Science in association with AVTRW, CFER and EBLEX.** S. Athanasiadou, A. S. Chaudhry,S. Chikunya, M.

Denwood, J. Flockhart, R. Flynn, J. Gibbons, J. G. M. Houdijk, D. A. Kenny, A. Mather, R. W. Mayes, T. McNeilly, D. M. Nash, R. I. Richardson, J. A. Rooke, M. T. Rose, M. A. Steele, C. Rymer, E. Wall, B. T. Wolf, A. R. G. Wylie (Eds.) p. 206. Published by Cambridge University Press,United kingdom

58. **Aderinboye,** R. Y., Adetunji, A. P., Yusuf, K. O., Ojo, V. O. A. and Oni, A. O. 2017. Mitigating feed nutrient losses in the rumen through dietary inclusion ofcashew nut shell liquid: An *in vitro* and *in vivo* evaluation. Advances in Animal Biosciences. The future of Animal Science. **Proceedings of the British Society of Animal Science.** T. Boland, A. S. Chaudhry,S. Chikunya, J. Flockhart, J. Gibbons, J. G. M. Houdijk, A. Kelly, D. A. Kenny, S. C. Mansbridge, R. W. Mayes, D. M. Nash, J. A. Rooke, M. T. Rose, M. A. Steele, S. M. Waters, B. T. Wolf, R. Wonfor, S. Wood (Eds.) p. 33. Published by Cambridge University Press,United Kingdom.

(d) Technical Report

59. ***Aderinboye, R. Y.,** Onwuka, C. F. I., Isah, O. A., Ojo, V. O. A., Yusuf, K. O., Oni, O. A., Oyewusi, I. K., Irekhore, O. T. and Akinhanmi, T. F. 2016. ***Utilization of cashew nut shell liquid as a dietary strategy to manipulate rumen fermentation for improved nutritional performance in ruminants.*** TETFundResearch grant repor**t**. Federal University of Agriculture, Abeokuta, Nigeria 86 pp.

12. FELLOWSHIPS/GRANTS, MASTE R'S PROJECTS AND PH. D SUPERVISED

A. FELLOWSHIPS/GRANTS

I. Fellowships

i. Fellowship award by the African Women in Agricultural Research and Development, World Agro-forestry Centre, Nairobi, Kenyacovering international trainings, workshops/meetings, conference and research grant. 2015

ii. Research fellowship at the Africa Biosciences Challenge Fund, Biosciences Eastern and Central Africa–International Livestock Research Institute (BecA-ILRI), Nairobi, Kenya funded by the Australian government (Department of Foreign Affairs and Trade, through the BecA-CSIRO partnership, the Syngenta Foundation for Sustainable Agriculture, the Bill & Melinda Gates Foundation, the Department for International Development (DFID)-UK and the Swedish Development Cooperation Agency (Sida). 2016

II. Grants

i. African Network for Agro-forestry Education grant by the International Centre for Research in Agro-forestry. 2000

ii. **ResearchTeam Member,** Research Grant Award by the Institute of Food Security, Environmental Resources and Agricultural Research, University of Agriculture, Abeokuta for a project titled, "Toxicity profile of some feedstuffs fed to West African dwarf goats in sub-humid zone of Nigeria". 2010

iii. **Lead Researcher** Tertiary Education Trust Fund Institution-based Research grant for a project titled, "Utilization of cashew nut shell liquid as a dietary strategy to manipulate rumen fermentation for improved nutritional performance of ruminants". 2014

iv. **Research Team Member,** Tertiary Education Trust Fund Institution-based Research grant for a project titled, "Legume-based pellets as dry season feed for ruminant animals". 2014

v. **Research Team Member,** Tertiary Education Trust Fund Institution-based Research grant for a project titled, "Multi-nutrient block supplement for dry season goat production". 2014

vi. **Research Team Member,** Tertiary Education Trust Fund Institution-based Research Intervention Allocation for a project titled, "Scent leaves as phytogenic feed additives for ruminants". 2015

vii. **Research Team Member,** Tertiary Education Trust Fund (TETFUND) Institution-based Research Intervention Allocation for a project titled, "Development of dry season sheep feed from manure fertilized maize leaves in crop–livestock farming system". 2015

viii. **Lead Researcher,**Tertiary Education Trust Fund (TETFUND) Institution-based Research Intervention Allocation for a project titled, "Effects of dietary turmeric levels on rumen fermentation, nutrient utilization, performance and meat quality in West African dwarf goats". 2019/2020

B. Postgraduate supervision (PGD, MASTERS AND Ph. D):

S/N	THESIS/ DISSERTATION TITLE	STUDENT NAME AND MATRIC. NUMBER	PROGRAMME	YEAR OF COMMENCEMENT	STATUS	LEVEL OF SUPERVISION
1.	Agronomic and nutritive evaluation of some pearl millet genotypes	Alabi, A. I. PG09/0260	Ph. D	2009	On-going	Co-supervision
2.	Growth and nutritive quality of *Megathyrsus maximus* as influenced by plant spacing and phenological stages and its silage quality with three legume seeds	Oyaniran, D. K. PG14/0672	Ph. D	2018	On-going	Co-supervision
3.	Effect of dietary inclusion of multi-enzyme (NATUZYME) and urea treatment on formulated concentrate for West African Dwarf goats	Oguntuyo, S. A. PG12/0150	Ph. D	2016	On-going	Co-supervision

4.	Performance and nutrient utilization in West African dwarf rams fed different proportions of *Cajanus cajan* hay with *Panicum maximum* as basal diet	Adebisi, I. A. PG15/0297	Ph. D	2015	Completed 2021	Co-supervisor
5.	Yield and nutritive value of three fodder crops as affected by irrigation water and time of harvest under hydroponic condition	Adekeye, A. B. PG15/0550	Ph. D	2015	Completed 2021	Co-supervisor
6.	Effect of cecotrophy and dietary crude protein level on performance, caecal ecology, haematology and total nutrient recycled in growing rabbits	Salami, S. A. PG09/0067	M. Agric.	2009	Completed 2011	Co-supervision
7.	Effect of palm kernel oil and two multipurpose tree species on methane production and performance in West African dwarf goats	Lagoke, O. O. PG 11/0014	M. Agric.	2011	On-going	Co-supervisor
8.	Performance of West African dwarf sheep fed graded levels of Moringa leaf meal-based concentrate as supplement to Panicum	Adekeye, E. Y. PG 11/0107	M. Agric.	2011	Completed 2014	Co-supervisor
9.	*In vitro* and *in vivo* methane emission and rumen parameters in red Sokoto goats fed tropical browse plants	Okunade, S. A. PG 11/0126	M. Agric.	2011	Completed 2014	Co-supervisor
10.	*In vitro* and *in vivo* evaluation of cashew nut shell liquid as modifier of rumen fermentation in West African dwarf goats	Olagoke, K. O. PG 12/0151	M. Agric.	2012	Completed 2015	Major supervisor
11.	Nutritional evaluation of wood ash-urea treated cashew nut shell as a ruminant feed resource	Ogunsolu, R. O. PG13/0693	M. Agric.	2013	Completed 2018	Major supervisor

12.	Nutrient utilization in West African dwarf goats fed diets containing cashew nut shell liquid as feed additive	Adetunji, A. PG14/0750	M. Agric.	2014	Completed 2017	Major supervisor
13.	Effect of "kaun" (local potash) and salt lick on performance of West African dwarf goats	Oguntuyo, S. A. PG12/0150	M. Agric.	2012	Completed 2016	Co-supervisor
14.	Effect of yeast (*Saccharomyces cerevisiae*) and enzyme in the diet of intensively managed West African dwarf goats	Folarin, D. M. PG14/0656	M. Agric.	2014	Completed 2017	Co-supervisor
15.	Herbage production of some herbaceous legumes and the nutritive value of their pellets as dry season supplements for West African dwarf rams	Oyaniran, D. K. PG14/0672	M, Agric.	2014	Completed 2017	Co-supervisor
16.	Response of sexed weaner rabbits to diets containing graded levels of Neem leaf meal	Oyebo, A. T. PG13/0240	M. Agric.	2015	Completed 2019	Co-supervisor
17.	Nutritive quality of Elephant grass (*Pennisetumpurpureum* Schumach) varieties fertilized with manure in Cook sytlo (*Stylosanthes guianensis*) mixed swards	Oyekunle, T. B. PG15/0602	M. Agric.	2015	Completed 2019	Co-supervisor
18.	Influence of sowing date and growth stage on forage and nutritive quality of three sorghum varieties and their silages	Usman, S. PG15/0337	M. Agric.	2015	Completed 2018	Co-supervisor
19.	*In vitro* and *in vivo* evaluation of cinnamon powder as feed additive in the diet of West African dwarf goats	Sanusi, O. A. PG16/0683	M. Agric.	2016	Completed 2019	Co-supervisor

20.	Effect of sweet orange (*Citrus sinensis*) peel on rumen fermentation, nutrient utilization and performance of West African dwarf goats	Oyebamiji, B.A. PG 17/0436	M. Agric.	2017	On-going	Major supervision
21.	*In vitro* and *in vivo* evaluation of *Rauvolfia vomitoria* (Swizzle stick) leaves as phytogenic additive in the diet of West African Dwarf goats	Salami, T. PG 17/0072	M. Agric.	2017	On-going	Major supervisor
22..	Response of West African Dwarf sheep to manure fertilized maize hay concentrate diets	Adetunji, O. O. PG 17/0186	M. Agric.	2017	On-going	Co-supervisor
23.	Response of West African Dwarf goats to varying doses of aqueous extract of Morinda lucida Benth. (Brimstone) leaves	Adebayo, T. J. PG 18/0470	M, Agric.	2018	On-going	Co-supervisor
24.	Potentials of pawpaw leaves as forage supplement in the diet of weaner rabbits	Abaire, M. A. PGD 08/0383	PGD	2008	Completed 2010	Major supervisor
25.	Evaluation of some nutritional and anti-nutritional constituents of ten tropical browse plants in southwestern Nigeria	Arowolo, F. I. PGD 11/0130	PGD	2011	Completed 2012	Major supervisor
26.	Nutrient quality and storability *of Panicum maximum* based meal as dry season feed for ruminant feeding	Oladepo, O. PG 14/0960	PGD	2014	Completed 2015	Major supervisor

12. EXTRA CURRICULAR ACTIVITIES

(i) Reading, writing and cooking

13. REFEREES

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MY RESEARCH INTEREST AND CONTRIBUTION TO KNOWLEDGE

My research activities carried out over the years and my contribution to knowledge are presented under the following areas:

1. **Use of feed additives for enhanced nutrient utilization and ruminants' production performance**

   My initial work began with the use of monensin, an ionophore feed antibiotics. The effect of monensin was investigated with small ruminants; sheep and goats **(Papers 1, 2, 3 and 6)**. Monensin was shown to improve feed efficiency in sheep through reduced feed intake per unit weight gain when included at 1 g/kg dry matter (DM) of supplemental diet **(Paper 1)**. In goats, monensin inclusion at 15 – 45 mg/kg DM, maintained body weight, reduced DM intake and lessened the consumption of some anti-nutrients in feed **(Paper 2)**. Rumen microbial degradation of dietary crude protein and fibre was inhibited at inclusion levels of 30 – 45 mg/kg DM **(Paper 3).** At 15 – 45 mg/kg DM, monensin in goat diet improved feed and protein efficiency ratio, decreased rumen acetate to propionate ratio and increased blood glucose level. Monensin at 15 – 45 mg/kg DM was recommended for efficient protein utilization, increased propionate production and improved blood glucose levels in goats **(Paper 6)**.The risk of antibiotics in ruminants' diet initiated the search for alternative feed additives, which are plant-based. Cashew nut shell liquid (CNSL), was the first phytogenic feed additive studied (**Paper 15, 20, 21, 24 and 33**). Cashew nut shell liquid included at 15 ml/kg DM in supplemental pellets for goats reduced crude protein digestibility (**Paper 15**). Population of Xylan degrading microbes in the rumen of goats was enhanced with 4 – 6 ml/kg of CNSL in supplemental pellets (**Paper 20)**. In an *in vitro* experiment, CNSL reduced rumen protein degradability while studies *in vivo* revealed an increased apparent protein digestibility (**Paper 21**). Cashew nut shell liquid inclusion at 15 ml/kg DM for goats reduced DM intake, increased crude protein digestibility and increased weight gain during a 98-d trial (**Paper 24**). At 5 ml/kg inclusion in concentrate pellets, CNSL inhibited methane emission from the rumen, with about 18% methane reduction observed (**Paper 33**).

   Several other phytogenic additives were studied for their effect on ruminants. Studies with coconut oil showed that a rate of 150 g/day, increased weight gain in grazing cattle while normal packed cell volume and haemoglobin concentration were maintained in animals (**Paper 22).** Scent leaf reduced rumen fungi population when administered to goats at the rate of 5-15 g/kg DM (**Paper 29**)**.** The anthelminthic effect of scent leaf was observed at 10 g/kg DM inclusion in the

diet of goats, with about 30% reduction in faecal worm egg count (**Paper31**). A study on the effect of cinnamon powder on methane emission and degradation of maize stover-based substrate *in vitro*, revealed a reduction in methane emission with 5 mg/g DM inclusion of cinnamon, without affecting substrate degradation (**Paper 34**). Feed conversion ratio was improved in goats administered daily doses of 2.5 – 5 g of turmeric, with no detrimental effect on animal health (**Paper 40**). The use of fibrolytic enzyme, Roxazyme G2®, in maize stover-based diet for West African Dwarf goats at 0.5 g/kg DM inclusion increased crude protein digestibility, daily feed intake and weight gain in goats (**Paper 16**).

2. Nutritional evaluation of alternative feed resources for ruminant feeding

Feed resources from natural pastures, browse plants, crop residues and by-products have been studied for their nutrients, digestibility, and subsequent utilization by ruminants. Feeding *Gmelina arborea*, *Enterolobium cyclocarpum*, *Albizia sama*, Cassava peels and Palm kernel cake reduced rumen microbial population due to the presence of some anti-nutritional components in these feeds (**Paper 4**). Some agro-industrial by-products such as maize offal, brewers' dried grain, soyabean meal, maize meal and groundnut meal showed high rumen degradability potentials with up to 70% dry matter degradability (**Paper 5**).*Synedrella nodiflora* exhibited potentials for low methane emission (**Paper 7**).Growth performance in goats was higher when Palm oil slurry (25%) was used in combination with melon husk (25%) in the diet (Paper 9). Groundnut haulms, garden egg haulms, maize husks, maize stover, sweet potatoes vines, cowpea haulms, yam peel, potatoes peel, cowpea husk and groundnut husk, maize cob, plantain peels, bread fruit peels, orange peels were also evaluated as feed resource for ruminants. These ingredients were concluded to be rich in essential nutrients, and low in antinutrients (**Paper 18**). Study with cashew nut shell showed that, it can be better utilized as feed ingredient when treated with wood ash or processed to extract the oil fraction (**Paper 10**).Other processing methods such as sun-drying, air-drying and fermentation were assessed as processing methods for some browse plants. Results showed that air drying was the best method for maintaining nutrient content of forages while fermentation was best for reducing anti-nutritional factors (**Paper 28**). Processing into pellets could also improve the nutritive value of browse leaves (**Paper 23**).*Etanda africana*, *Piliostigma thonnigli*, *Detarium microcarpum*, *Daniella oliveri, Pterocarpus erinaceus* and *Afzelia Africana* had high crude protein content, digestibility and relative feed values for goats (**Paper 12**).Threshed sorghum tops as basal diet for buckling goats had better nutritional value when supplemented with leaves of some browse plants at 4% of animals' body weight **(Paper 14).**

In vitro gas production technique has been established as a fast and cheap method for the nutritional evaluation of feeds for ruminants.However, inoculum source for substrate degradation is an important factor. Our study has shown that cumulative gas production from the use of cattle and sheep inoculum, cattle and goat inoculum, as well as goat and sheep inoculum were highly correlated. It was therefore concluded that rumen fluid from cattle, sheep and goats could serve as inoculum source for the screening of these forages for ruminants **(Paper 17).**

3. Utilization of poor-quality forages by ruminants

Studies were carried out to determine ways of improving the utilization of forage feeds by ruminants during dry seasons. Cattle grazing natural pastures had better performance when supplemented with cured, ensiled and browse forages (**Papers 8).** Ensiling *Pennisetum purpureum* for a 60-d period with boiled *Enterolobium cyclocarpum* at ratio 7: 3, respectively, provided a high silage quality for ruminants (**Paper 19**).*Panicum maximum* is one of the pasture grasses for ruminants in the tropics. Timely harvesting of *P. maximum* at 6 – 8 weeks for use as pasture, hay or silage will ensure optimum nutritive value (**Paper 25**). Supplementation can also improve utilization of poor-quality grasses. Rams on basal diets of *P. maximum* supplemented with *Lablab*

purpureus pellets showed improved weight gain, nutrient digestibility and nitrogen utilization (**Paper 26 and 30**). For effective rumen degradation and utilization of crop by products, treatment with urea was proposed (**Paper 27**). Urea-molasses treatment of maize stove and supplementation with 300 g of Gmelina arborea was recommended as a good option for effective nutrient utilization of maize stover by growing goats.

4. **Nutrition and feeding of pseudo-ruminants**

A part of my research focuses on the feeding and nutrition of rabbits. The potentials of pawpaw leaves as feed resource for rabbits was investigated. Pawpaw leaves in the diet of weaner rabbits at 30 – 70% inclusion can improve performance without adverse effect on the physiological status **(Paper 13).** The peculiar nutritional habit of ruminants termed "caecotrophy" was also studied to understand its impact on rabbits' performance and physiological status. Caecotrophy contributes to nitrogen utilization in rabbits and the prevention of caecotrophy in rabbits showed detrimental effect on growth performance, nutrient digestibility, and serum biochemical parameters of growing rabbits (**Paper 37**).