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Email: centurytrends@yahoo.com Website: www.midcenturyagroallied.com

### PRODUCT RANGE

#### A NUTRITIONAL

- \* ANIMAL PROTEINS
- \* GUT HEALTH OPTIMIZERS
- \* AMINO ACIDS  
(ALL ESSENTIAL AMINO ACID)
- \* SINGLE VITAMINS
- \* MENERALS & THEIR SALTS
- \* TOXIN BINDERS
- \* ENZYMES - NSP/COCKTAILS
- \* MANAN OLIGOSACCHARIDES
- \* FAT EMULCIFIERS
- \* ACIDIFIERS
- \* ANTIOXIDANTS
- \* CAROTENOIDS ( COLOURANTS)
- \* MOULD INHIBITORS
- \* FISHMEAL (65%, 72%, PURE & ANALOGUES)
- \* COCCIDIOSTATS
- \* MINERAL CHELATES
- \* PROBIOTICS
- \* PELLET BINDERS
- \* ORGANIC ACIDS/  
THEIR SALTS IN BLENDS
- \* MCP,DCP & TCP
- \* BI-CARBONATES
- \* SWEETNERS
- \* FLAVOURANTS
- \* ATTRACTANTS

#### B HEALTH

- \* APIS
- \* LIVER TONIC
- \* GUT HEALTH STABILIZERS
- \* POWDERS & LIQUID
- \* AGRAR RANGE OF VETERINARY DRUGS
- \* MERVUE RANGE OF VETERINARY PRODUCTS (GROW FORTE) ETC

#### C PUBLIC HEALTH

- \* ODOUR CONTROL
- \* RODENTICIDES
- \* DISINFECTANTS

#### D ANTIBIOTIC-FREE PRODUCTS (NUTRITION - BASED HEALTH)

- \* EW NUTRITION RANGE OF PRODUCTS.
- \* PRO-BIOTICS
- \* PRE-BIOTICS
- \* PHYTOGENICS



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ANIMAL SCIENCE ASSOCIATION OF NIGERIA  
AND  
NIGERIAN INSTITUTE OF ANIMAL SCIENCE



12TH  
ASAN-NIAS  
JOINT ANNUAL  
MEETING

#### THEME

PATHWAYS TO ADDRESSING THE CHALLENGES OF  
CLIMATE CHANGE IN ANIMAL AGRICULTURE

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ABUJA 2023



## National Anthem

ARISE, O Compatriots,  
Nigeria's call obey  
To serve our Fatherland  
With love and strength and faith  
The labour of our heroes past  
Shall never be in vain  
To serve with heart and might  
One nation bound in freedom,  
Peace and Unity.

O God of creation,  
Direct our noble cause  
Guide our leaders right,  
Help our youths the truth to know  
In love and honesty to grow  
And living just and true  
Great lofty heights attain  
To build a nation where peace  
And justice shall reign.

## National Pledge

I pledge to Nigeria my country.  
To be faithful, loyal and honest.  
To serve Nigeria with all my strength.  
To defend her unity,  
And uphold her honour and glory.  
So help me God.



## Our Vision

To be the leading regulatory institution for Animal Science and Husbandry practice in Africa that will improve the standard of living of its people.

## Our Mission

Regulation of Animals Husbandry Practices for increased profitability to all stakeholders and to guarantee improved Animal Husbandry and Production Systems that will embrace environmental sustainability and ensure high quality and quantity of animal proteins to Nigerians.

## Our Mandate

### Professional

Registration and Accreditation of Animal Scientists  
Resource Verification  
Mandatory Continuing Education  
Research  
Ensuring Proper Affiliations  
Policy Making

### Industry

Developing and Enforcing Regulations and Standards for Value Chains, Processing, Distribution, Marketing, Education, Information and Operations.

### Social

Advocacy  
Partnership for Entrepreneurship  
Job Creation/Self Employment Education  
Technology Enlightenment

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A healthy gut morphology*







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**HIS EXCELLENCY**  
**ASIWAJU BOLA AHMED TINUBU** GCFR  
PRESIDENT, COMMANDER-IN CHIEF OF THE ARMED FORCES  
FEDERAL REPUBLIC OF NIGERIA





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**HIS EXCELLENCY**  
**DR. ABDULLAHI UMAR GANDUJE, CON**  
**APC NATIONAL CHAIRMAN**  
CHAIRMAN OF THE OCCASION

# L-PRES

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## \*GOODWILL MESSAGE\*

The Management and Staff of Yinka Omole Esq, Solicitors and Advocate, Atlanta Georgia, USA, cordially felicitates with the Animal Science Association of Nigeria (ASAN), Nigerian Institute of Animal Science (NIAS), Chairman, Local Organising Committee, 2023 ASAN - NIAS JAM, Abuja FCT, Nigeria and members of Sub-committees, for the successful hosting of the 12th Joint Annual Meeting (JAM) and 28th Annual General Meeting of ASAN, from 12th to 15th November, 2023 in Abuja, Nigeria.

**Yinka Omole Esq**  
USA.



**ABUJA 2023**

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**THEME**  
**PATHWAYS TO ADDRESSING THE CHALLENGES OF CLIMATE CHANGE IN ANIMAL AGRICULTURE**

5







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**DR. MARIYA MAHMOUD,** MBBS, MWACP, FMCFM, MPH.  
HONOURABLE MINISTER OF STATE  
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4

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**Composition**  
**ND Strain** - Classical Strain + epidemic strain, which has a good protective effect on preventing and controlling a typical Newcastle disease and virulent Newcastle disease attacks and effectively preventing virus replication.  
**AI Strain** - AI Strain of Avian Influenza (H9 subtype) and pandemic strain are selected, which has a good protection effect on the current H9: 4 : 2 : 5 pandemic strain.  
**IBD** - Select the dominant antigen protein VP2 from the bursa of fabrics, express it through genetic engineering to form a particle like protein, with more stable antigen and good immune effect.

**AD (Group 1, Type 4)** - The penton protein expressed by the selected strain has good immunogenicity.  
2. Efficient concentration and special purification process with transfer factor + imported medical grade white oil.  
3. Wide antigen spectrum, multiple prevention measure with one shot.

**Dosage / Administration**  
**Young Bird** (1 - 4 weeks) - 0.3ml/bird, subcutaneous injection in the neck region.  
**Adult Bird** (5weeks - upwards) 0.5ml/bird subcutaneous injection in the neck region.  
**Orally** - (Thirst the birds at least 1hr)  
**Young Birds** - 500ml/ 20 - 30litres of water  
**Adult Birds** - 500ml/ 40 - 50litres of water  
**Storage** - at 2°C - 8°C - valid for 24months at room temperature - valid for 6months

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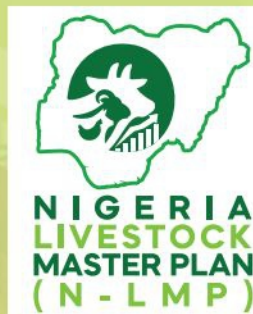
SEN. DR. ALIYU SABI ABDULLAHI CON

(BARADEN BORGU)

HONOURABLE MINISTER OF STATE  
AGRICULTURE AND FOOD SECURITY



# NIGERIA LIVESTOCK MASTER PLAN (N-LMP)



The Federal Government of Nigeria through the Livestock Productivity and Resilience Support (L-PRES) project and in collaboration with the International Livestock Research Institute (ILRI), launched the development of the Nigeria Livestock Master Plan (N-LMP) in Abuja on Monday 24 July 2023.



The overarching objective of the N-LMP is to enhance the productivity, sustainability, and economic contribution of the country's livestock sector to agricultural gross domestic product while focusing on strategic investment portfolios within priority livestock commodity value chains.

To achieve this objective the N-LMP will undertake three main activities:

1. A quantitative and evidence-based analysis of past and current trends (baseline livestock sector analysis).
2. A long-term (15-year) foresight analysis (livestock sector strategy).
3. A medium-term (5-year) actionable investment roadmap, specific for priority livestock value chains (livestock master plan).

These activities will be driven by comprehensive data gathering and analysis, extensive stakeholder consultations, and ex ante investment analysis conducted across three thematic areas:

Genetics, Nutrition, and Health.

## Expected Benefits of LMP

<p><b>01</b></p> <p><b>Evidence-Based Decision-Making:</b></p> <ul style="list-style-type: none"> <li>Equipping governments, investors, and partners with quantitative insights.</li> <li>Highlighting sector contributions and constraints.</li> </ul>	<p><b>02</b></p> <p><b>Long-Term Strategy Formulation:</b></p> <ul style="list-style-type: none"> <li>Foresight analysis for informed long-term strategies.</li> <li>Identifying critical livestock commodities, value chains and production systems.</li> </ul>	<p><b>03</b></p> <p><b>Catalyzing Investment Opportunities &amp; Policy Impact:</b></p> <ul style="list-style-type: none"> <li>Visionary roadmaps with targets and investment proposals.</li> <li>Focusing on economic performance and national developmental objectives.</li> </ul>
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Timeline/Duration:  
**18 MONTHS.**

Technical Partner:



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<https://www.ilri.org/livestock-master-plans>





# FEDERAL COLLEGE OF ANIMAL HEALTH AND PRODUCTION TECHNOLOGY



MOOR PLANTATION, PMB 5029, IBADAN, OYO STATE, NIGERIA.  
college@fcahptib.edu.ng www.fcahptib.edu.ng



## A. NATIONAL DIPLOMA (ND) IN:

Animal Health and Production Technology  
Science Laboratory Technology  
Fisheries Technology  
Statistics  
Computer Science  
Veterinary Laboratory Technology

## C. VOCATIONAL/SHORT TERM TRAINING IN:

Poultry, Sheep and Goat Production,  
Cattle, Quail, Fishery,  
Swine and Mini Livestock Production,  
Fisheries Technology and Processing etc,  
Catering & Home Management Services.

## D. OTHER SERVICES IN LIVESTOCK PRODUCTION

The College Renders The Following Services:  
Veterinary Clinic Services  
Veterinary Ambulatory Services  
Extension Services For Livestock Farmers  
Consultancy Services  
Entrepreneurship Development

## B. HIGHER NATIONAL DIPLOMA PROGRAMS

Animal Health Technology  
Animal Production Technology  
Agric Extension and Management  
Pasture and Range Management  
Statistics  
Fisheries Technology  
Agribusiness Management  
SLT, Physics / Electronics option  
SLT, Environmental Biology option  
SLT, Biology / Microbiology option  
SLT, Chemistry / Biochemistry option  
Computer Science

**WE ALSO RUN PART TIME PROGRAMS FOR ALL THE COURSES LISTED ABOVE AT ND & HND LEVELS**

FOR FURTHER DETAILS CONTACT  
THE COLLEGE REGISTRAR

**08136632392, 08033852713, 08057992907.**



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**DR. ERNEST A. UMAKHIHE**

**PERMANENT SECRETARY**

**MINISTRY OF AGRICULTURE AND FOOD SECURITY**





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**LAWAN KOLO GEIDAM, RAS**

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**PROF. BABA YUSUF ABUBAKAR OFR**  
PRESIDENT  
NIGERIAN INSTITUTE OF ANIMAL SCIENCE





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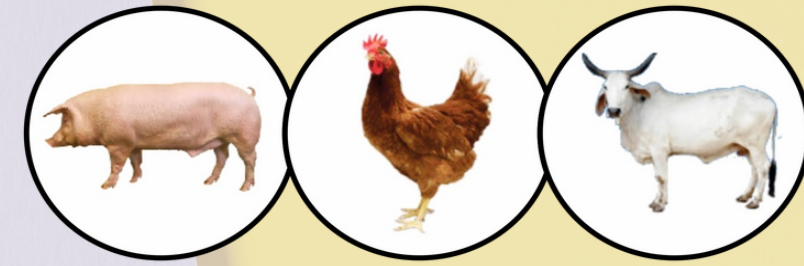
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On behalf of the Local Organizing Committee we will like to take the opportunity to express our gratitude and appreciation to;

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9. Federal College of Animal Health and Production Technology
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12. Prof. Ari Maikano
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14. Prof. Demo Joab Usman Kalla, RAS, FASAN, FNSAP, FSPSP



### PROF. EUSTACE AYEMERE IYAYI

RAS, FNIAS, FCASN, FASAN, MSID

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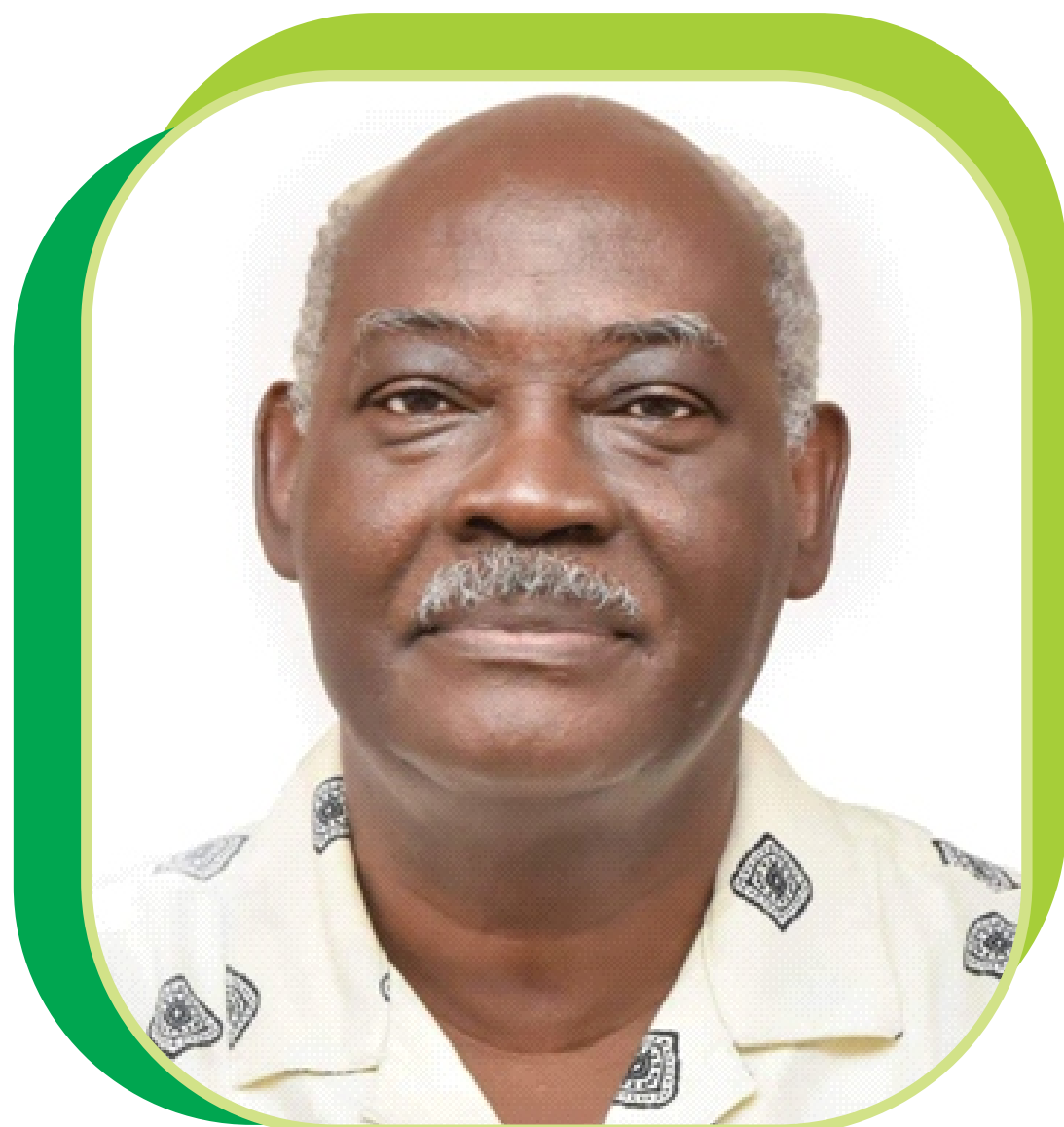
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## LIST OF LOC MEMBERS



**PROF. EMMANUEL BABAFUNSO SONAIYA**

*FNSAP, FASAN, FNIAS.*

**KEYNOTE SPEAKER**

S/N	NAME	COMMITTEE	DESIGNATION
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2	Mr. Ibiezugbe Jacob Ejodamen	LOC	General Secretary
3	Mr. Jacob Kuusu	LOC	Assistant Secretary
4	Dr. (Mrs) Azeezat Abdulrauf Babalola	LOC	Treasurer
5	Prof. Odunsi Adeyinka	Scientific/Technical	Chairman
6	Mrs Winnie Lai-Solarin	Fund Raising	Chairperson
7	Hajia Umma Abubakar	Fund Raising	Co-Chairperson
8	Mr Abdulahhi Baba-Imam	Fund Raising	Vice Chair
9	Dr. Gabriel A. Malomo	Fund Raising	Member
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13	Mr. Emmanuel Negedu	Publicity and Media	Member
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30	Prof. Demo Joab Usman Kalla		
31	Mr. Peter Alike		
32	Dr. Babatunde Adebayo		
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34	Dr. Abdulhameed Jimoh		
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33	144	Alalade, J. A., Oyeyode, A. T. Okunlola, O. O., and Adebisi, I.A	Department of Animal Health and Production, Oyo State College of Agriculture and Technology, Igbo-ora.	Chemical and mineral compositions of varying mixture of Lablabpurpureus and Panicum maximum.	671-674
34	152	Ibrahim, H., Lamidi O. S., Hassan M. R., Abdu, S. B, Musa, A, Ishiaku, Y. M., Ahmed, S.A, Ibrahim, U. M. and U. J. Bah	National Animal Production Research Institute, Shika-Zaria, Nigeria	Effect of bakers' yeast supplement on performance of growing dromedary camels (Camelus dromedarius)	675-678
35	153	Charles, H., Abubabkar, M and Kalla D. J. U	Department of Animal Science, Federal University Gashua, Yobe state.	Performance and nutrient intake of growing Yankasa sheep fed varying levels of ensiled typha grass (Typha domingensis) and sorghum straw in diets	679-682
36	154	Bashir, A. Fatima and Muhammad, I. R	Department of Animal Production, Adamawa State University, Mubi, Nigeria	Effectiveness of feeding concentrate supplements on milk yield of White Fulani cows raised under semi-intensive system	683-685
37	157	Jimoh O. A. and Oyeniyi F. G.	Department of Animal Production Technology, Federal Polytechnic, Ado-Ekiti, Ekiti State.	Impact of covid-19 induced lockdown on small-ruminant production in South-west, Nigeria	686-688
38	159	Dahiru, M, Abdurrahman, S. L, Abunabo, M.M and Abdullahi, I.	Department of Animal Health and Production Technology, Binyaminu Usman Polytechnic, Hadejia, Jigawa State, Nigeria	Feeding of Ziziphus species (Ziziphus mauritiana and Ziziphus spinachristi) to Small Ruminants in Guri Local Government Area, Jigawa State, Nigeria: A Preliminary Study.	689-693
39	160	Aruwayo, A., Adeleke, R., Rotimi E. A., Idowu, W and Suleiman A. A.	Department of Animal Science, Federal University Dutsin-Ma, Katsina State, Nigeria.	Biochemical parameters of growing sokoto red buck fed kalgo (Ptilostigmareticulatum) and gawo (Faidherbiaabida) pods as feed supplement	694-697
40	162	A. I. Ebe, O. J. Ifut, E. F. Istifanus, E. E. Tom, U. A. Inyang	University of Uyo, Uyo, Akwa Ibom State	Dry Matter Yield, Mineral Contents, Antinutrients and Proximate Composition of Cultivated Calopogonium mucunoides in the Humid Tropics	698-701
41	163	Akinkunmi, A.O. and Abegunde, T.O.	Department of Animal Sciences, Obafemi Awolowo University, Ile-Ife, Nigeria	Haematological and serum biochemical responses of West African Dwarf goats fed cabbage waste ensiled with pineapple peels	702-705
42	166	Adekanye, C. A. Odedire, J. A. and Akinropo, T. F.	Department of Animal Sciences, Obafemi Awolowo University, Ile - Ife, Osun State.	Yield and nutritive composition of hydroponic fodder as influenced by soaking duration	706-708
43	174	Akinropo T.F., Odedire J.A. and Adekanye C.A	Department of Animal Sciences, Obafemi Awolowo University, Ile-Ife.	Development of a Smart Nutrition System for Sheep and Goats in Nigeria	709-712
44	175	Akinropo T.F., Abegunde T.O., and Odedire J.A.	Department of Animal Sciences, Obafemi Awolowo University, Ile-Ife, Nigeria	Carcass and organ characteristics of West African Dwarf Goats fed Eichhornia crassipes ensiled with Atorcapusatilis	713-716
45	180	Ahmed, S.A, Hassan , M.R, Salisu S.G, Abubakar, S. A , Ibrahim, U, Abdusalam, M., Ibrahim, H , Usman, A.A Ibrahim, M. M, Idowu, W., and Buhari, M.K.	National Animal Production Research Institute, Shika, Zaria, Nigeria.	Growth indices, forage yield and proximate composition of Centrosema Pascourum as affected by month of harvest in Shika Nigeria	717-719
46	185	Inweh , Daniel Akpofure, Irikefe-ekeke Efe Peterson	Dennis Osadebay University, Asaba, Delta State.	Growth performance of West African dwarf goats fed varying levels cassava peels, rumen digesta, and poultry waste as alternative to conventional diet	720-723
47	187	Idowu, W., Akinde, S.T. and Hassan, M.R.	Department of Animal Science, Federal University Dutsin-Ma Nigeria.	Effects of swine manure rates, planting methods and harvesting stages on the fibre fractions of Megathyrus maximums	724-727
48	192	Okunlola, O. O., Ajayi, D. A., Akindele, W. O., Bamimore, A. I. and Adebayo, D. T.	Department of Agricultural Education , Oyo State College of Education, Lanlate	The impact of the current economic downturn on the meat preference of the staff of Oyo State College of Education, Lanlate, Nigeria	728-730
49	201	Ashiru, R. M., Minkaila, K., Sariyyu S., Afolabi, H. O., Abdulhamid, S. U., Abubakar, M. M., Madu A., Jibrin I., Isyaku, R., Shafaatu, A. S., Ado, F. H., Iliyasu, K. A. and Omar, H. L.	Department of Animal Science, Kano University of Science and Technology, Wudil, Nigeria.	Effect of solid-state fermentation by some strains of fungi on nutritional value of sugarcane waste	731-734
50	202	Sariyyu S., Ashiru, R. M., Saidu, S. S., Ibrahim U., Abdulhamid, S. U., Isyaku, R., Abubakar, M. M., Madu A., Jibrin I., Iliyasu, K. A., Shafaatu, A. S., Omar, H. L. and Ado, F. H.,	Department of Animal Production Technology, Audu Bako College of Agriculture Dambatta, Kano	Chemical composition of the ensiled sugarcane waste enhanced with soybean meal residue and rumen digesta.	735-738
51	209	Adamu, S., Abdulrashid, M.,	Department of Animal Production,	Effect of selenomethionine supplementation on	739-742



**JOHN TOYIN TAIWO**  
 RAS, FASAN  
 CHAIRMAN,  
 LOCAL ORGANIZING COMMITTEE





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LOC CHAIRMAN'S WELCOME ADDRESS AT THE 12<sup>TH</sup> ASAN-NIAS JOINT ANNUAL MEETING/ 28<sup>TH</sup> ANNUAL ASAN CONFERENCE, 2023, ABUJA

PROTOCOLS:

On behalf of the Local Organizing Committee, I am pleased and honoured to warmly welcome all participants, invited guests and the key role players in Agricultural development and Livestock Industry, to the 12<sup>th</sup> Animal Science Association of Nigeria (ASAN)/ Nigerian Institute of Animal Science (NIAS) Joint Annual Meeting (JAM) Abuja 2023, with the Theme "Pathways to Addressing the Challenges of Climate Change in Animal Agriculture"

It is an honour to have in our midst, M. Kouacou Dominique Koffy, the Food and Agriculture Organization (FAO) Country Representative ad interim Nigeria and ECOWAS.

The Keynote Speaker, Prof. Emmanuel Babafunso Sonaiya, is Fellow, Nigerian Society for Animal Production (FNSAP), Fellow, Animal Science Association of Nigeria (FASAN), Fellow, Nigerian Institute of Animal Science (FNIAS).

This JAM has brought investors, industrialists, academia, farmers and government to roundtable and panel discussions, to brainstorm on the way forward for the livestock industry in Nigeria, especially with the critical downturn of the economic activities brought about by the fuel subsidy removal, high insecurity situation exacerbated by the activities of the bandits and insurgents nationwide alongside the aftermath effects of the

Russian –Ukrainian war and others.

I will like to appreciate the backstopping efforts of the members of the Central Organizing Committee (COC), the commitment of the Local Organizing Committee (LOC) and Chairpersons of the Sub-Committees and their members who worked tirelessly to ensure the success of this conference, despite the prevailing circumstances.

I am particularly thankful to our donors and sponsors without whose contributions, this conference would not have been possible. God Almighty will increase you on all sides.

Deep appreciation goes to the Honourable Ministers, the Permanent Secretary of Federal Ministry of Agriculture and Food Security (FMAFS) and the Director, Department of Animal Husbandry Services, FMAFS, for their presence and support towards the hosting of this 2023 JAM/Annual Conference. Our appreciation goes to the Chairmen Committees on Agriculture, in the Red and Green Chambers of the National Assembly for their presence. Sincere appreciation goes to our Chief Hosts, the Honourable Ministers of FCT and one of our own, Mandate Secretary, Agriculture and Rural Development (ARD), Secretariat, FCTA, Mallam Lawan Kolo Geidam (RAS) who is a Special Guest of Honour and Host.

Our appreciation also goes the Vice Chancellor and the Dean of the Faculty of Agriculture, University of Abuja for their presence and support to the Secondary School Quiz/Debate Competition on Animal Agriculture, held at the Faculty of Agriculture, University of Abuja, on the 7<sup>th</sup> November, 2023, as



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Table with 5 columns: ID, Number, Author(s), Institution, and Abstract. Contains 20 rows of research abstracts related to animal production and health.





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# Programme of Events

30	194	Ajibade, A. J, Makinde, O.J, Ntagbu, F.G and Adeniji, O.A	Federal College of Wildlife Management, New Bussa, Niger state, Nigeria,	Effect of processed Kalgo (Piliostigmareticulatum) seed meal on carcass characteristics and organ weight of broiler chickens	529-532
31	196	A. Suleiman, M. N. Saboand I. M. Abdullahi.	Department of Animal Science, Faculty of Agriculture, Federal University, Dutsin-Ma, Katsina State, Nigeria	An assessment of welfare parameters of Noiler chickens reared under different housing types	533-535
32	205	Usman, M.O., Alu, S.E., Ari, M.M., Kasimu, U.M., Aisha A.M., Abdullahi, H.R., and Guluwa, L.Y.	Department of Animal Science, Faculty of Agriculture, Nasarawa State University, Keffi, Nasarawa State.	Nutrient and fibre digestibility of Japanese Quails (Cortunixcortunix japonica) fed Fermented Sugarcane Scrapping Meal-Based Diets Supplemented with Exogenous Enzyme	536-539
33	206	Usman, M.O., Alu, S.E., Ari, M.M., Kasimu, U.M., Aisha A.M., Abdullahi, H.R., and Guluwa, L.Y.	Department of Animal Science, Faculty of Agriculture, Nasarawa State University, Keffi, Nasarawa State, Nigeria.	-----	540-542
34	207	Dogara, M.U., Abdullahi, H. R., Usman, M.O., Kasimu, U.M., Aisha, A.M., Abubakar, J.A., and Ubangari, M.A.	Department of Animal Science Federal University of Lafia, Lafia, Nasarawa State of Nigeria.	Effect of Tigernut Offal Meal-Based Diets on Bone Mineralisation of Grower Rabbits Supplemented with and without Kingzyme®	543-546
35	210	Boladuro, B. A., Adeschinwa, O. A., Dunmade A. S. and Adeschinwa A. O. K.	Livestock Improvement Programme, I. A. R & T. Obafemi Awolowo University, Moor Plantation, Ibadan, Nigeria	Growth and serum biochemistry of grower pigs fed diets supplemented with multi-enzyme complex	547-550
GROUP 5		RUMINANT PRODUCTION & NUTRITION / PASTURE & RANGE MANAGEMENT/ LIVESTOCK ECONOMICS & EXTENSION	CHAIRMAN: Prof NJIDDA, A. A	RAPPORTEUR: Dr (Mrs) Karimat Imam Aliyu	
SN	CP	AUTHORS	CORRESPONDING ADDRESS	TITLE	Pages
1	003	Joseph, M. A., Abisoye, F. O., Ogaji E. O., Enefolo, I. M., and Emmanuel, O. S.	Department of Animal Health and Production Technology, Kogi State Polytechnic, Lokoja, Nigeria.	Effects of Different Processing Methods on the Proximate Composition of Gmelina arborea Leaf Meal	551-553
2	004	Millam, J. J., Ahijo, C., Abbaya, H. Y. and Kosontyav,	Department of Animal Production, Adamawa State University, Mubi,	Nutrient and phytochemical composition of black-bindweed (Fallopia convolvulus) hay\	554-557
3	007	Mijinyawa, M.A., Lamidi, O.S., Abdu ,S.B., Hassan, M. R, Jinadu, L. A, Nayawo A. A., Ado, F. H., Kibiya, H.Y., Bala, A.G and Bello, S.S	Department of Agricultural Education, Sa'adatu Rimi College of Education, Kumbotso, Kano	Effects of varied inclusion levels of yeast in bagasse based total mixed ration on methane estimation by Yankasa rams.	
4	008	Nayawo, A.A., Ehoche, O W., Otaru, S.M., Abdu, S.B. Mijinyawa, M. A.	Department of Agricultural Education, Sa'adatu Rimi College of Education, Kumbotso,	Serum biochemical profiles of growing Yankasa rams fed diets containing different proportions of urea treated rice straw and gamba hay	
5	011	Buba M	Department of Animal Health and Production Technology, Federal Polytechnic Bali, Bali, Taraba State, Nigeria.	Effect of supplementing lablab and Andropogon gayanus in feeding sheep in the semi arid environment	
6	012	Kuttu, J. M., Garba, Y., Lushi, A. I., and Nasir A.	Department of Agricultural Education, Federal College of Education (Technical) Bichi, Kano state.	Evaluation of vines ensiling period and additives on nutrient composition and In vitro gas production of sweet potato silage	
7	014	Babuwa B.	Department of Animal Health and Production Technology, Federal Polytechnic Bali, Bali, Taraba State.	Problems affecting management and production system of ruminant animals in Sardauna local government area of Taraba state, Nigeria (a survey)	
8	018	Adebisi, I.A., Ajibike, A.B., Okunlola, O.O., Oladepo, O., Amusa, H.O., Mustapha, T.B., Adesope, A.T. and Ojetola, O.R.	Department of Animal Production Technology, Oyo State College of Agriculture and Technology, Igboora, Oyo State.	Evaluation of selected serum macro minerals in west african dwarf rams fed selected browse fodders and guinea grass hay	
9	041	Okunlola, O. O., Alalade, J. A., and Adebisi, I. A.	Department of Animal Production Technology, Oyo State College of Agriculture and Technology, Igboora, Oyo State.	Growth performance and nutrient digestibility of West African dwarf rams fed Megathyrus maximus ensiled with dried banana peels and dried poultry litters	
10	044	N. G Dubagari., Bridget Bagudu <sup>1</sup> and Jibrin Jafar. <sup>1</sup>	Department of Animal Health and Production Technology, Federal Polytechnic Bali, Taraba State.	Effect of genotype and sex on body weight and morphometrics of Yankasa and Uda sheep in Bali, Taraba state	
11	045	Mustapha, K., Ashiru R. M., Obadire, F. O., Ubali, S	Department of Animal Science, Federal University Dutse, Jigawa State Nigeria	Nutrient Intake of Yankasa Rams Fed Diets Containing Graded Levels of fermented Hibiscus sabdariffa L. (Roselle) Seed Meal	
12	048	Emiola, C.B., Muraina, T.O., Adams, T.O., Bako, B.A., and Oguntade I.A.	Department of Animal Production and Technology, OSCA&T, Igboora, Oyo State	Effect of storage period on proximate composition of congo grass (Brachiariaruziziensis) hay	



SN	TIME	ACTIVITY	DESIGNATE
1	Sunday 12 <sup>th</sup> November, 2023	Arrival of Participants/Registration	
<b>Monday 13<sup>th</sup> November, 2023</b>			
1	8:00am –	Registration Continues	
2	8:30am -10:30am	Technical/Scientific Sessions	Prof. A. A. Odunsi
3	8:30am - 10:30am	NIAS Council Meeting	NIAS
4	10:30am -11:30am	ASAN-NIAS-Pastoralist Round Table	Prof. D. J. U. Kalla
5	11:30am - 12:30pm	1. Panel Discussion - Sub Theme 1: <i>Effective Harnessing of Alternative Feed Resources for Ruminants and Monogastrics to Address High Production Cost, Food and National Security.</i>	Lead Speaker - Prof. M. A. Bamikole (Chairman NIAS Small Ruminant Discipline) Discussants: 1. Chief S. Ohwofa (Chairman FIPAN Strategic Committee) 2. Prof. Francis Abeke (NAPRI)
6	12.30 pm – 1.30 pm	2. Panel Discussion - Sub Theme2: <i>Addressing Seasonal Egg Glut in the Poultry Industry in Nigeria.</i>	Lead Speaker - Pastor Taiwo Adeoye (Chairman, Poultry Discipline NIAS). Discussants 1. Prof. T. S. Olugbemi (ABU) 2. Dr. Chris Edeh (Director, Emmpek Foods) 3. Dr. Onallo Akpa (DG, Poultry Association of Nigeria)
7	1:30 pm – 2:30pm	Lunch break	
8	2:30 pm – 4:30pm	Technical/Scientific Session	Prof. A. A. Odunsi
9	4:30 pm – 6:30 pm	NIAS ANNUAL GENERAL MEETING	NIAS
<b>Tuesday 14<sup>th</sup> November, 2023</b> <i>The Opening Ceremony/NIAS – FCASN, RAS &amp; AAS Induction</i>			
1	8:00am –	Registration	
2	9:15-9:20am	Inductees Seated	
3	9:15-9:20am	Arrival of Guest & Participants	
4	9:20-9:25am	Procession of NIAS Fellows and Council Members	
5	9:25 -9:28am	National Anthem	
6	9:28 -9:30am	Opening Prayers	2 <sup>nd</sup> Stanza
7	9:30-9:35am	LOC Chairman Remarks	Mr. John Toyin Taiwo
8	9:35-9:40am	ASAN National President	Mr. Raymond Isiadinso
9	9:40-9:45am	NIAS President	Prof. Baba Yusuf Abubakar
10	9:45-9:50am	Goodwill messages	FAO Representative to Nigeria and ECOWAS.
11	9:55 -10:00 am		Chairman, House Committee on Agriculture
12	10:00-10:05 am		Chairman, Senate Committee on Agriculture
13	10:05-10:10 am		Mandate Secretary, ARD Secretariat, FCTA
14	10:10 -10:15 am		Hon Minister of State FMAFS Sen. Dr. Aliyu Sabi Abdullahi con



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11	10:10-10:20am	<b>Welcome Address</b>	His Excellency NYESOM EZENWO WIKE, CON HONOURABLE MINISTER FCT
	10:20-10:30am	<b>Chairman's Address</b>	His Excellency, Dr. Abdullahi Umar Ganduje, CON
12	10.30-10.40 am	<b>Opening Address</b>	<b>Hon Minister of FMAFS</b> <b>SENATOR ABUBAKAR KYARI, CON</b>
13	10:40-11:00am	<b>Keynote Address</b>	<b>Prof. Emmanuel Babafunso Sonaiya</b>
14	11:00-11:20am	<b>Product presentations</b>	<b>N-LMP, LPRES, FDH Agrovet</b>
15	11:20am - 12:00noon	<b>Awards</b> <ul style="list-style-type: none"> <li>• Secondary School Quiz Winners</li> <li>• Distinguished Animal Scientist –DAS- ASAN</li> <li>• Life Membership of ASAN</li> <li>• Fellowship – FCASN– NIAS</li> <li>• Others</li> </ul>	
16	12:00noon - 12:03pm	<b>Invitation to Initiate Induction</b>	<b>NIAS Registrar</b>
17	12:03-12:05pm	<b>Convocation of the Induction</b>	<b>NIAS President</b>
18	12:05-12:10pm	<b>Code of Conduct for Associate Animal Scientist and Registered Animal Scientist</b>	<b>NIAS Registrar</b>
19	12:10-12:05pm	<b>Presentation of Inductees</b>	<b>NIAS Registrar</b>
20	12:05-12:08pm	<b>Invitation of Judge</b>	<b>NIAS Registrar</b>
21	12:08-12:18pm	<b>INDUCTION: Associate Animal Scientists (AAS) and Registered Animal Scientists (RAS)</b>	<b>His Lordship the Chief Judge of FCT</b>
22	12:18-12:28pm	<b>Exhortation</b>	<b>NIAS President</b>
23	12:28-12:30pm	<b>Invitation of NIAS President to close the Induction ceremony</b>	<b>NIAS Registrar</b>
24	12:30-12:32pm	<b>Closing of the Induction ceremony</b>	<b>NIAS President</b>
25	12:32-12:35pm	<b>Vote of Thanks</b>	<b>NIAS Vice President I</b>
26	12:35-12:38pm	<b>Closing Prayer</b>	
27	12:38-12:40pm	<b>National Anthem</b>	
28	12:40pm	<b>Recession</b>	
<b>Group Photograph /Visit to exhibition stands</b>			
30	12.50 – 2.00pm	<b>Lunch &amp; Prayers Break</b>	
31	2:00-4:30pm	<b>ASAN AGM</b>	<b>ASAN</b>
		<b>Closing</b>	
<b>Wednesday 15<sup>th</sup> November, 2023</b>			
		<b>Departure</b>	

GROUP 4	MONOGASTRIC PRODUCTION & NUTRITION 2	CHAIRMAN: Prof. (Mrs.) IYEGHE-ERAKPOTOBOR, G.T	RAPPORTEUR: Dr SIKIRU, A. B		
SN	CP	AUTHORS	CORRESPONDING ADDRESS	TITLE	Pages
1	098	Oyelekan T.N., Ademola, S.G., Akinwumi, A.O, Arasi, K.K. and Adio A.A.	Department of Animal Nutrition and Biotechnology, LAUTECH, Ogbomoso, Oyo State.	Evaluation of Growth Performance of Broiler Chickens Fed Differently Processed Cocoa Beans Shell	422-426
2	105	Anyigor, E. A., Okechie, U.N. Aladi, N. O. and Etuk, E. B. <a href="mailto:anyigoremeka@gmail.com">anyigoremeka@gmail.com</a> .	Department of Animal Production Technology, Federal College of Land Resources Technology, Owerri.	Nitrogen and phosphorus content of litter from pens of broiler chickens raised on changing times of the dual phase feeding regime	427-430
3	106	Adio A.A., Ademola S.G., Arasi K.K. and John J.G.,	Department of Animal Nutrition and Biotechnology, LAUTECH, Ogbomoso, Oyo State	Performance and Internal Quality of Stored Eggs Of Hens Fed Dietary Turmeric and Clove	431-434
4	115	Adesope, A.T., Adams, T.O., Bako, B.A., Oseni, T.A., Adebisi, I.A., and Adeleye, S.O.	Department of Animal Production Technology, Oyo State College of Agriculture and Technology, Igboora, Oyo State, Nigeria	Effect of varying levels of aqueous extract of scent leaf in water on haematological parameters of commercial broiler	435-438
5	119	Oseni, T.A., Bamgbose, A.M., Amusa, H.O., Oladejo, A.O., Ogungbenro S.D., Makanju, T.D., <sup>2</sup> Oladigbolu, F.D. and <sup>2</sup> Orbugh, A.T.	Department of Animal Health and Production Technology, Oyo State College of Agriculture and Technology, Igboora, Oyo state, Nigeria.	Dietary effects of varying levels of sawdust as partial replacement for wheat offal on nutrient digestibility of weaner rabbits	439-441
6	121	Nduka, C.E., Hart, U.V., Adetutu, O.I., Olabode, A.D. and Eli, E.	Federal college of Agriculture, Ishaigu, Ebonyi State, Nigeria.	Effect of Aidan fruit (Tetrapleura tetraptera) Fruit Meal on the Growth Performance of Laying Chickens	442-445
7	127	Adetola, O. O., Adewumi, M. O., Babatunde, M.O. and Odetola, M.O.	Federal University of Animal Health and Production Technology, Moor Plantation Ibadan, Oyo State, Nigeria.	Growth performance and blood profile of broiler chickens fed diets supplemented with graded levels of guster bp70'	446-449
8	129	Alhabib, I. K., Barje, P. P., Dahiru, M.G., Ndams, S.S., Dare T.A. and Bature, I. I.	College of Agriculture and Animal Science, Ahmadu Bello University, Mando Road, Kaduna.	Growth performance and Haematological Parameters of Broiler Chickens supplemented with Coffee Senna seed (Senna occidentalis) Powder at Finisher phase	450-452
9	131	Nuhu, S. H., Mohammed, A. Mijinyawa, A., Sani, I., Yaro, S. S., Sani, A.,	Department of Animal Health and Production Federal Polytechnic, Bauchi	Egg Quality Characteristics of Guinea Fowl Numida meleagris Fed Different Commercial Feeds	453-456
10	132	Gbubemi P. U., Williams, G. A., Odunsi, A. A and Lateef, A	Department of Animal Science, School of Agriculture, Epe campus, Lagos State University, Nigeria,	Performance of broilers fed diets containing phyto-mediated calcium phosphate nano particles as additives	457-460
11	135	Mafimidiwo, A.N., Adebayo, B.J., Rabi, L.A., Sule, R., Saibu, O.O and Omotunde, P.F	Department of Animal Production Technology, Yaba College of Technology, Epe, Lagos. Nigeria.	Performance and cost benefit of replacing maize (Zea mays) with fermented cassava root-leaf blend meal in Weaned rabbits' diets	461-464
12	136	Usman, M.O., Alu, S.E., Ari, M.M., Kasimu, U.M., Aisha A.M., Abdullahi, H.R., and Guluwa, L.Y.	Department of Animal Science, Faculty of Agriculture, Nasarawa State University, Keffi, Nasarawa State, Nigeria.	Effects of Exogenous Enzyme Supplementation of Fermented Sugarcane Scrapping Meal-Based Diets on Carcass Characteristics of Japanese Quails (Cortunixcortunix Japonica)	465-467
13	139	NWAFOR, I. U., MANCHA, Y. P and ABDULHARIM, M.	Department of Animal Production, Abubakar Tafawa Balewa University, Bauchi,	Performance and carcass characteristics of broiler chickens fed different levels of local white sorghum (farfara) as replacement for white maize	468-470
14	140	Ojediran, T. K., Olorunlowu, S. A. Olayeni, T. B. and Emiola, I. A.	Department of Animal Nutrition and Biotechnology, LAUTECH, Ogbomoso Nigeria	Performance of weaner pigs fed unshelled maize meal	471-475
15	142	Yisa C. T., Ogunbajo, S. A. and Adebayo, R. A	Department of Animal Production, Federal University of Technology, Minna, Niger State.	Performance of broiler chickens fed varying levels of differently processed desert date (Balantites aegyptiaca) seed meal diets at starter phase	476-478
16	146	Nkwocha, G.A., A deolu, A. I and Okah, A. E.	Faculty of Agriculture, Alex Ekwueme Federal University Ndufu-Alike IkwoAbakaliki, Ebonyi state.	Haematological estimates of finisher broilers fed graded levels of Morin ga oleifera and Carica papaya leaf meal as dietary supplement	479-482
17	147	Ndams, S.S., Dare, T. Y. and Jantiku, H. J.	Department of Animal Science, Ahmadu Bello University, Zaria, Nigeria	Comparative evaluation of the proximate composition of four commercial broiler starter diets sold within Kaduna metropolis: a laboratory based study	483-485
18	149	Olaiya, O. D., Egbo, M. L., Kalla, D. J. U., Adelowo, V. O., Okpara, J. O., Bello, A. T and Hassan, I.M	Federal College of Animal Health and Production Technology, Vom	Performance, nutrient digestibility and economic benefits of grower pigs fed Cabbage (Brassica oleracea Var) waste leaf meal	486-489
19	150	Lawal W.S and Apata D.F Department of Animal Production, Fisheries and Aquaculture, Kwara State University, Malet, Nigeria.	Department of Animal Production Technology, Kwara State Polytechnic. Ilorin, Kwara State.	Assessment of some herbal plants for their phytochemical contents and invitro assay of their antioxidant potentials for alleviating heat stress in broiler birds	490-493





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23	049	Opoola, E., Makinde, O.J Olobatoke, R.Y. Atte, P.O, and Olaniyang, G	Animal Science Department. Ahmadu Bello University, Zaria.	Effect of dietary supplementation of zinc oxide on apparent nutrient digestibility and litter quality of broiler chickens reared in the tropics	
24	053	Edeh Henry Onyeji, Ani Augustine Ogbonna, Ude Fredrick Ugochukwu, Ogwuegbu Mercy Chisara, Ilo Stanley Uzochukwu, Onodugo Matthew Onyeka and Nwaoga Cornelius Chijioko	Department of Animal Science, University of Nigeria Nsukka, Nigeria.	Evaluation of Energy and Protein requirements of growing local Turkeys (4weeks to 8weeks of age) reared in hot humid tropics.	
25	056	Bot, M.H., Aliyu, I.P., Salifu, A.O., Duru, S., Imoisi, C.O. and Zungum, A.G.	Federal College of Animal Health and Production Technology, NVRI, Vom, Plateau State.	Effect of phytase enzymatic-treated black finger millet (Eleusine coracana) on carcass traits of broiler chickens	
26	061	Olanloye, S. A., Oguntoye, M. A., Alade, A. A., Awesu, R. J. and Fafiolu, O. A	Department of Animal Production, Olabisi Onabanjo University, Ayetoro Campus, Ogun state	Effect of multi-enzyme supplemented cassoya - based diets on growth response and cost benefit analysis of starter broiler chicks	
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28	066	Irivboje, O.A. and Olufayo, O.O.	Department of Agricultural Technology, The Federal Polytechnic, Ilaro.	<b>Impact of Different Levels of Plantain Peel Meal in Broiler Chicken Diets on Growth Performance during the Finished Phase</b>	
29	069	Sandra, Galilee.	Department of Animal Health and Production, Federal Polytechnic Bali, Taraba State.	Comparative study of experimentally formulated and commercially formulated feeds on performance of broiler chickens	
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MR. RAYMOND ISIADINSO  
RAS, FNIAS, FASAN



PROF. PETER PANO BARJE



PROF. OLUSEGUN OJENIYI OJEBIYI  
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PROF. TAIYE SUNDAY OUGBEMI



PROF. DEMO JOAB USMAN KALLA  
RAS, FASAN, FNSAP, FSPSP

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RAS





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22	AKINDELE, BOLAJI JAMIU
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24	AKPAN, OKUOBONG MICHAEL
25	AKPAN, PRESCILIA JANUARIUS
26	ALAJEMBA, EMMANUEL NONYE
27	ALIYU, IBRAHIM BIN
28	AMOS, MISHAEL
29	AMOSU, SEMETHON DAVID
30	ANASTASIA, NWANNEKA OKEKE IKE
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41	BAMIGBOYE, OLUBUKOLA MARY
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44	BELLO, OLALEKAN AKEEM
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4	015	Ilaboya, I.I. and Omatsuli, M. O	Department of Animal Science, Benson Idahosa University, Benin City, Edo state	Effect of feeding dried cabbage ( <i>Brassica oleracea</i> var. capitata) leaf residues on broiler performance, ileal digestibility and total tract nutrient retention	281-284
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7	019	Sudik, S. D.; Maidala, A.; Mankinde, O. J. Bagudu, I. A. and Lawan, A	Department of Animal Science, Federal University, Gashua, Yobe State	Nutrient composition of zobo waste: a by-product of roselle ( <i>Hibiscus sabdariffa</i> ) calyx	291-292
8	020	Amusa, H. O., Ogungbenro, S. D., Makanju, T. D., Oseni, T.A., Adebisi, I. A., Ojelere, I.M.	Department of Animal Health and Production Technology, Oyo State College of Agriculture and Technology, Igboora Oyo State,	Effect of varying inclusion level of Lablab purpureus soaked in pap water filtrate on carcass characteristics of broiler finisher	293-295
9	022	Asaniyan, E. K. and Adeyemi, M. A	Department of Animal Production and Health, Olusegun Agagu University of Science and Technology, Okitipupa. Ondo State	Egg production performance of isa brown laying hens fed cassava ( <i>Manihot esculenta</i> ) plant meal-based diets	296-299
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12	025	Adamu, J. L, Nyako, H.D Yusuf, S.Z and Kure, A.J.	Department of Animal Health and Production Technology, Federal Polytechnic Bali Bali Taraba State	Effects of replacing concentrate diet with hydroponic maize fodder on growth performance and haematological parameters of weaner rabbits.	307-310
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115	ADEFOWOPE, OLANREWaju MORUFF	1	BULAMA, MOHAMMED
116	ADELEKAN, JIMOH ADEKUNLE	2	DRAMBI, MICHEAL
117	AKINTAYO, OLUWAREMILEKUN	<b>RE- INVITED ASSOCIATE ANIMAL SCIENTISTS'</b>	
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120	BWALA, RAHILA MUSA		





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ASAN-NIAS JOINT ANNUAL MEETING



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GROUP	ANIMAL PHYSIOLOGY, REPRODUCTION & HEALTH / ANIMAL PRODUCTS PROCESSING & TECHNOLOGY	CHAIRMAN: Prof SHAAHU, D. T	RAPPORTEUR: Dr (Mrs) OLAGOKE, O. C		
SN	CP	AUTHORS	CORRESPONDING ADDRESS	TITLE	Pages
1	006	Sikiru, A.B., Muhammad, I.R., Egena, S.S.A, Alemede, I.C., and Oleforuh-Okoleh, V. U	Department of Animal Science, Federal University of Agriculture Zuru, Nigeria.	Urinary Metabolites as Biomarkers for Animal Performance – Focus on Reproduction, Lymphatic Health, and Adaptation to Bioclimatology	128-132
2	026	Evans E. I, Sam I. M, Ekpenyong, U. A. Ozung, P. O, and Christopher, G.	Department of Animal Science, Akwa Ibom State University. Obio Akpa Campus, Akwa-Ibon State	Reproductive response of rabbits fed fermented Delonix regia seed meal in South-south Nigeria	133-137
3	029	Johnson N.C & Ogbamgba, V. M.	Department of Animal Science, Rivers State University, Port Harcourt, Rivers State	Effects of feeding graded levels of tridax procumbens on liver health and electrolytes' status of buck rabbits	138-140
4	031	Woke, J. A. and Johnson, N. C	Department of Animal Science, Rivers State University, Port Harcourt.	The Effects of Garlic and Ginger Supplementation on Antioxidant and Prooxidant Responses in Broiler Chickens	141-144
5	042	Oyeleye, O. O., Adeoye, A. A. and Ezekiel, R. O.	Department of Animal Production and Health, Olusegun Agagu University of Science and Technology, Okitipupa, Ondo State.	Pigmenting efficacy of synthetic carotenoids on egg quality characteristics	145-148
6	043	Fatoba T. A, Akanbi A, S, Faturoti E A and Odofin M.	Department of Animal Production and Health, Olusegun Agagu University of Science and Technology, Okitipupa	Effect of aqueous leaf extract of Heliotropium indicum on the Haematological parameters of New Zealand white rabbit bucks	149-152
7	051	Daramola O.T and Arire E. O	Department of Agricultural Technology, Federal Polytechnics Ado Ekiti, Ekiti State,	Effects of different phytogetic supplements on proximate composition and pH of broiler meat	153-156
8	052	Daramola O.T and Arire E. O	Department of Agricultural Technology, Federal Polytechnics Ado Ekiti, Ekiti State	Antioxidant effect of phytogetic supplements on broiler chickens	157-160
9	054	Bulau, M. M., Saleh, B., Raji, A.O., Izge, U.T and Aminami, M	Department of Animal Science, University of Maiduguri, Maiduguri, Borno State.	Effect of Baobab (Adansonia digitata) and Tamarind (Tamarindus indica) Extract on Testicular Sperm Reserve of Noiler and Indigenous cocks.	161-163
10	060	Mohammed, A., Inusa S. K. and Abdullahi, M. H	Department of Animal Science, Federal University Gashua,	High performance liquid chromatography analysis of sodium benzoate concentration in yoghurt and kindirmo (local yoghurt) in Kano metropolis	164-166
11	076	Aba, C. N., Ikeh, N. E., Ali, L. C., Anizoba, N. W., Ezenwosu, C., Amaefule, B. C. and Machebe, N.S	Department of Animal Science, Faculty of Agriculture, University of Nigeria Nsukka,	Ovarian Morphometry and Histology of Laying Hens Fed Varying Dietary Levels of Organic Selenium and Vitamin E	167-170
12	083	Osayande,U.D, Bitto, I, Okewale, S. A	Department of Agricultural Technology, Edo State College of Agriculture and Natural Resources, Iguoriakhi, Nigeria	Biochemical composition of cerebral fluid in relation to reproduction in goats in the tropics	171-175
13	084	Idowu K.R, Adeyemo A. A. and Iyanda A.I.	Department of Animal Production and Health, Federal University of Agriculture, Abeokuta, Ogun state.	Microbial evaluation of gastro-intestinal tract of Noiler fed different biotic additives	176-178
14	087	Aguihe P.C., Mohammed H., Osaguona P.O, Komolafe P.L Uwaeziozi U.C. and Ntagbu F.G.	Department of Animal Health and Production Technology, Federal College of Wildlife Management, New Bussa	Dietary supplementation of dried brewery residue based diets with organic acid on meat quality and organoleptic attributes of broiler chickens	179-182
15	095	Shittu, M. D., Akinwande, B. O., Emmanuel, P. O., Alagbe, O. J. and Ojebiyi, O. O	<sup>1</sup> Dept. of Animal Production and Health, Ladoke Akintola University of Technology, Ogbomoso	Growth performance, nutrient digestibility and blood profile of rabbits fed varied supplementation levels of negro pepper (Xylopi aethiopia)	183-186
16	097	Panuel, B., Musa, N. and Abbaya, H.Y	<sup>1</sup> Department of Animal health and Production Technology, Adamawa State College of Agriculture Ganye, Nigeria,	Haematological indices of indigenous goat breeds: a case study of some villages in Ganye local government area, Adamawa state as affected by sex and location	187-189
17	101	Amaefule, B.C., Ikeh, N.E., Nnajofofor, N.W. Umeugokwe, P.I., Chukwudi, P. and Amachebe, N.S	Department of Animal Science, University of Nigeria, Nsukka,	Effect of photoperiod and herbal dietary additive on the haematological indices of guinea fowl hens	190-193
18	102	Oyegunwa, Adekoyejo Samuel and Kassim Hassan Gbenga	Department of Agricultural Science, Tai Solarin University of Education, Ijagun Ijebu Ode, Nigeria,	Ameliorative effect of turmeric antioxidant extract (Curcuma aromatica) on performance of finisher broiler during aflatoxicosis	194-196
19	110	Tirmidhi, A.B., Abolujja, A.B., David, D.G., Hureira, A.T and Haulatu, B.A	Department of Animal Science, Taraba State University, Jalingo,	Prevalence of bovine tuberculosis in Zing abattoir, Zing Local government area of Taraba state.	197-199
20	111	Ubua, J.A., Abolujja, A.B., and	Department of Animal Science, Taraba	Histopathological characteristics of broiler chickens	200-203





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19	108	Yisa, A. G.	Animal Production Department, School of Animal Health and Production, Vom Federal College of Animal Health and Production Technology.	The effects of inorganic (non-nutrient) growth promoting agents in broiler chicken diets: A review	66-68
20	133	E. E. Akangbe and A. A. Odukoya	Department of Animal Production and Health, Edo State College of Agriculture and Natural Resources, Iguorikhi, Edo state	Biochemical response of Weanling Wistar Rats administered crude extracts of Moringa oleifera leaf	69-71
21	145	Mafimidiwo, A.N., Adebayo, B.J., Williams, G.A., Olayemi, W.A and Olayinka, O.A.	Department of Animal Production Technology, Yaba College of Technology, Epe, Lagos. Nigeria.	----- ----- -----	72-75
22	155	Abdulrahman M., Kabir M. Umar, U. A., Hussaini, M., Ibrahim U.M., Ereke S.O., Ishiaku Y.M, Abdulrahman I and Habibu B.	National Animal Production Research Institute, Shika.	Genomic conserved regions, GAPS, SNPS between growth hormone, insulin-like growth factor 1, myostatin genes of chicken, rabbit and sheep	76-79
23	158	Abdulraheem, A. O , Gideon, G , Mohammed, A, Shettima, M. M and Raji , A. O.	Department of Animal Science, Faculty of Agriculture, University of Maiduguri, Maiduguri, Borno State	Growth patterns of indigenous normal feathered chickens reared intensively in Borno, North East Nigeria	80-83
24	169	U.A. Eshimutu, I. Mallam, S.O. Nureni and O. Afolayan	<sup>1</sup> Department of Animal Health and Production Technology, Federal College of Agriculture, Akure	Evaluation of aspartate and alanine aminotransferase on growth trait of pure and crossbred weaner rabbits	84-87
25	176	K.T. Akanni and G.A. Ajayi.	Department of Agricultural Education, Federal College of Education, Abeokuta	Breeding and efficiency of feed utilization in diallel crossed rabbits in a humid climate	88-91
26	179	Oladejo Opeyemi. A., Akinjogbin Tunde A., Adeleye Bobola E., Ayoola Mathew. O, Oguntunji Abel. O, Alabi, Olufemi. M, Lawal,	<sup>1</sup> Animal Science and Fisheries Management, Agriculture Programme, College of Agriculture, Engineering, and Science, Bowen University, Iwo	Effect of breed on the growth of New Zealand White rabbits and the crossbred -two strains of Hyla (Hyla ng and Hyla max)	92-94
27	186	Kosshak, A. S., Raji, A. M. Gambo, D., Umar, M. K	<sup>1</sup> Department of Agricultural Technology, Federal College of Land Resources Technology, Kuru-Jos, Plateau State,	Principal component analysis of body weight and morphometric traits of Japanese quails reared on Jos Plateau, Nigeria.	95-98
28	191	Zannah, B. B., Yusuf, M. J., Jibrin T. A., Marte, A. M. and Aminami, M.	Department of Animal Science, University of Maiduguri, Borno State, Nigeria.	Genetic correlation and influence of litter size on body weights of domestic pigeon squabs (Columba livia) at different ages in Maiduguri, Borno state, Nigeria	99-102
29	195	Ogutade, D. O ; Orose, Ekinadose; Noseregebe, R; Ilori, B. M	Department of Animal Science, Ambrose Alli University, Ekpoma, Edo State.	Mutational and evolutionary analyses of mc1r gene in exotic and Nigerian indigenous turkeys with different colored feathers	103-106
30	199	Adejo, C.O, Okoh, J.J, Adunfe, T.A, Adeyemi, A.M , Nuhu, S.H , Enefolo, I. M, Amedu, G and Peter, P.O,	Department of Animal Science, Federal University, Kashere, Nigeria,	Constraints to the use of molecular assisted selection in the genetic improvement of indigenous livestock in Nigeria: a review	107-109
31	200	Abisoye, F. O., Atte , P. O, Adedibu, I.I., Kabir, M, Joseph, M. A., and Adebayo, O. M	Department of Animal Health and Production Technology, School of Agriculture, Kogi State Polytechnic, Itakpe, Kogi State	Biochemical Comparison between Sokoto Gudali and White Fulani Cows	110-112
32	204	Daniel, C., Abdulkarim, M and Sanusi, M	Department of Animal Production, Abubakar Tafawa Balewa University, Bauchi	Study on fish farms management practices in Bauchi metropolis	113-116
33	208	Kperegbeji, J. I <sup>†</sup> and Onwumere-Idolor, S.O <sup>*</sup>	Department of Animal Production, Delta State University of Science and Technology, Ozoro, Nigeria.	Variation in Growth Performance of Black Versus Broad-Breasted White Turkey Meat Type	117-120
34	211	Dahiru, M.G., Umar, A.U., Al-Habib, K.I., Shuaibu, A.S. and F.I. Mohammed	College of Agriculture and Animal Science, Ahmadu Bello University, Mando - Road, Kaduna;	Association between live weight and body linear measurements of helmeted guinea fowl (Numidia meleagris) in sub humid zone of Nigeria	121-123
35	212	Adaramola, K.A., Tairu, H.M., Adelodun, O.B. and Olajide, A.O.	<sup>1</sup> Department of Science Laboratory Technology, Oyo State College of Agriculture and Technology, P.M.B.10, Igboora, Oyo State, Nigeria	Comparative analysis of antibacterial activities of <i>Parkia biglobosa</i> leaves and husk against <i>Staphylococcus epidermis</i> and <i>Pseudomonas aeruginosa</i> isolated from the oral of African catfish ( <i>Clarias gariepinus</i> )	124-127

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3. PROF OLUWAFEMI R. A- UNIABUJA
4. DR MRS AKANDE KEMI – FUT MINNA
5. DR RAFIU T. A – LAUTECH – SECRETARY
6. DR. ABDULHAMMED JIMOH - JSTU, MAKURDI
7. DR SIKIRU, A. B - FU AGRIC, ZURU
8. DR HARUNA MOSHOOD - LAUTECH
9. PROF SOGUNLE, O. M - FUNAAB
10. DR ALAGBE, O. JOHN - UNIABUJA

SCIENTIFIC SESSION 1: MONDAY, NOVEMBER 13, 2023 (8.30AM-10.30AM)  
SCIENTIFIC SESSION 2: MONDAY, NOVEMBER 13, 2023 (2.30 PM – 4.30 PM)

## LIST OF REVIEWERS ABE, O. S, (DR)

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ADEYEMI, A A (DR MRS)  
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AGUBOSI, O.C.P (DR)  
AKANDE, K. E (DR MRS)  
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ARUWAYO, ADEBAYO (PROF)  
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RAFIU, T. A. (DR)  
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		<b>ANIMAL BREEDING &amp; GENETICS/ ANIMAL BIOTECHNOLOGY/ MICROLIVESTOCK &amp; AQUACULTURE</b>	<b>CHAIRMAN: Dr SHOYOMBO, Ayo</b>	<b>RAPPORTEUR: Dr JUBRIL Ahmed</b>	
1	002	Abbaya, H. Y., Mathew, N., Millam, J. J. and Babale, D.M	Department of Animal Production, Adamawa State University, Mubi, Adamawa State.	Specie effect of serum anti-oxidation activities in some animals in hot season of Mubi	1-3
2	005	Idris, I. A and Dauda, A. S. Y	Department of Agriculture and Natural Resources, Chanchaga LGA Minna,	Correlations between body weight and some linear body measurements in the Nigerian heavy ecotype native cocks.	4-7
3	009	Amao, S. R., Oyewumi, S.O. and Ayoola, V. O.	Department of Agricultural Education, Emmanuel Alayande University of Education, Oyo, Oyo State	Prediction of Body Weight with Morphometric Traits in Describing male Ross 308 broiler chicken train using three models	8-11
4	021	Edache, J.A., Yisa, A.G., Tuleun, C.D., Muduudtai, U.R., Edache, D.O., and Adamu, M. A.	Federal College of Animal Health and Production Technology, Vom, Plateaus State	Effects of feeding diets containing varying levels of bakery waste on growing rabbits	12-14
5	032	Olusola, S. E., <sup>2</sup> Uguh, P. and Anthony, E. O.	Department of Fisheries and Aquaculture Technology, School of Agriculture, Food and Natural Resources, Olusegun Agagu University of Science and Technology, Okitipupa, Nigeria	Biomedical effect of Cnestisferruginea leaves extracts against some pathogenic microorganisms isolated from Clarias gariepinus	15-18
6	039	Olaifa, F. E, Okeowo, G.O and Olowojuni, O.	Department of Aquaculture and Fisheries Management, University of Ibadan, Ibadan	Organochlorine pesticides residues in commercial frozen Merluccius productus from selected market at Ibadan-north, local government, Oyo state	19-20
7	040	Aguihe, P. C., Ilaboya, I.I., Ajibade, A. A., Okoro, P.I. and Omatsuli, M. O.	Department of Animal Health and Production Technology, Federal College of Wildlife Management, New Bussa, Niger state	Growth performance and digestive tract pH of broiler chickens fed fermented brewery residue meal based diets with acidifier supplementation	21-24
8	046	Mohammed, A., Modu-Kagu, H.A., Ibrahim, M.M.,	Department of General Agriculture, Borno State University, Maiduguri, Borno State;	mRNA Expression Patterns of Ovine IgF-1 Gene in muscle of Some Nigerian Sheep Breeds	25-28
9	050	Popoola, A.D., Adedeji, T.A., Hammed, O.O., Olabode, B.T., Oyelami, D.A., Adegbola, O.A., Ifanegan, O.D., Fasasi, A.O.	Department of Animal Production and Health, Ladoko Akintola University of Technology, Ogbomoso, Oyo State.	Repeatability Estimate of Growth and Reproductive Potentials of Pure and Crossbred Rabbits in Derived Savanna Zone	29-32
10	057	Obasi, E. N., Oboyo, M. A., Isu, I. E. and Akinsola, K. L	Department of Animal Breeding and Physiology, Michael Okpara University of Agriculture, Umudike, Abia State,	Effect of Strain on Body Weight and Morphometric Traits of Three Meat-type Chickens at Starter and Finisher Phases in the Humid Tropics	33-36
11	059	Ikeh, N. E, Anizoba, N.W, Ugwu, O.G, Fekurumoh, S.O, Amaefule, B.CMachebe, N.Sand Foleng, H.M	Department of Animal Science, University of Nigeria, Nsukka	Mitochondrial analysis of non-descript and hyla rabbits reared in Nsukka	37-40
12	062	Isa, I.T., Suleiman, I.O., Obishakin, E.T., Bala, A.G., ThankGod, D.G., Olaolu, O.S., Jagab H.S and Audu Y.A	Department of Livestock services, Ministry of Agriculture, Jalingo, Nigeria	Evaluation of Genetic Similarity and Distance among Indigenous Breeds of Goats in Kano State, Nigeria	41-43
13	063	Nwaodu O.B, Uche-Nwachi, M, Chikwendu, M.E and Chidinso P.M	Department of Animal Health and Production Technology, Akanulbiam Federal Polytechnic, Unwana Ebonyi State.	Comparison of individual body weight in Ross 308 and Abor acre broiler using growth curve model	44-46
14	064	Nwaodu O.B, Uche-Nwachi, M, Chidinso P.M and Chikwendu, M.E	Department of Animal Health and Production Technology, Akanulbiam Federal Polytechnic, Unwana Ebonyi State	Phenotypic characterization of indigenous sheep in Afikpo, Ebonyi state Nigeria	47-49
15	077	Udeh, F.U., Ndofor-Foleng, H.M., Nwosu, C.C. and Onodugo, M.O.	Department of Animal Science, University of Nigeria, Nsukka.	Assessment of the body weights and heritability estimates of the Nigerian Heavy Local Chicken Ecotype reared in Nsukka	50-53
16	096	Kaboshio, Y. Y., Emmanuel, J., Yayi, J., Aliyu, Z. I., and Gandi, B. R.	Department of Animal science, Kaduna State University, Kaduna state.	Microbiomes in some livestock (cattle, goats, pigs and poultry)	54-58
17	103	Abiola-Olagunju .O, Ajibola W.O, Adediran, K.O, Shosanya A.A, Mako A.A. and Ogunwole, O.A.	Department of Biological Sciences, Lead City University, Ibadan, Oyo State	Proximate profiling, nutritive components and degradation of sweetcorn leaves (fl sugar king) by edible fungi	59-62

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