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- * AMINO ACIDS
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- * SINGLE VITAMINS
- * MINERALS & 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



THEME

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

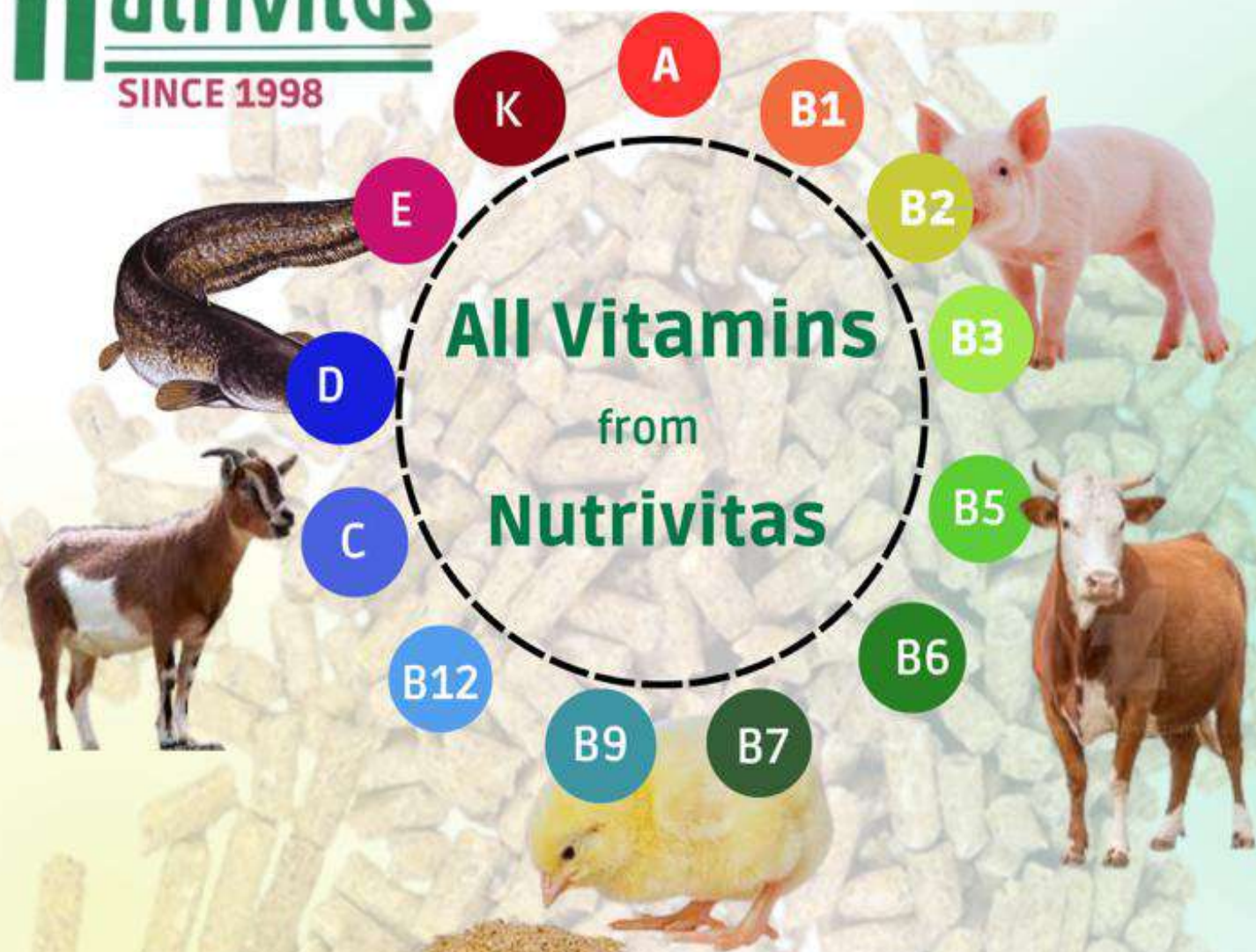


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8am daily





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- ✓ **E.C.O.TRACE®**
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- ✓ **TECHNO MOS®**
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THEME
PATHWAYS TO ADDRESSING THE CHALLENGES OF
CLIMATE CHANGE IN ANIMAL AGRICULTURE

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12th

ASAN-NIAS JOINT ANNUAL MEETING



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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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



HIS EXCELLENCY
NYESOM EZENWO WIKE, CON
HONOURABLE MINISTER
FEDERAL CAPITAL TERRITORY

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DR. MARIYA MAHMOUD, MBBS, MWACP, FMCFM, MPH.
HONOURABLE MINISTER OF STATE
FEDERAL CAPITAL TERRITORY



SENATOR ABUBAKAR KYARI, CON
HONOURABLE MINISTER
AGRICULTURE AND FOOD SECURITY

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SEN. DR. ALIYU SABI ABDULLAHI CON

(BARADEN BORGU)

HONOURABLE MINISTER OF STATE
AGRICULTURE AND FOOD SECURITY

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DR. ERNEST A. UMAKHIHE

PERMANENT SECRETARY

MINISTRY OF AGRICULTURE AND FOOD SECURITY

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LAWAN KOLO GEIDAM, RAS

MANDATE SECRETARY

AGRICULTURE AND RURAL DEVELOPMENT SECRETARIAT, FCTA

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PROF. BABA YUSUF ABUBAKAR OFR

PRESIDENT

NIGERIAN INSTITUTE OF ANIMAL SCIENCE

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MR. RAYMOND ISIADINSO

RAS, FNIAS, FASAN

PRESIDENT,

ANIMAL SCIENCE ASSOCIATION OF NIGERIA

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PROF. EUSTACE AYEMERE IYAYI

RAS, FNIAS, FCASN, FASAN, MSID

REGISTRAR/CEO,

NIGERIAN INSTITUTE OF ANIMAL SCIENCE

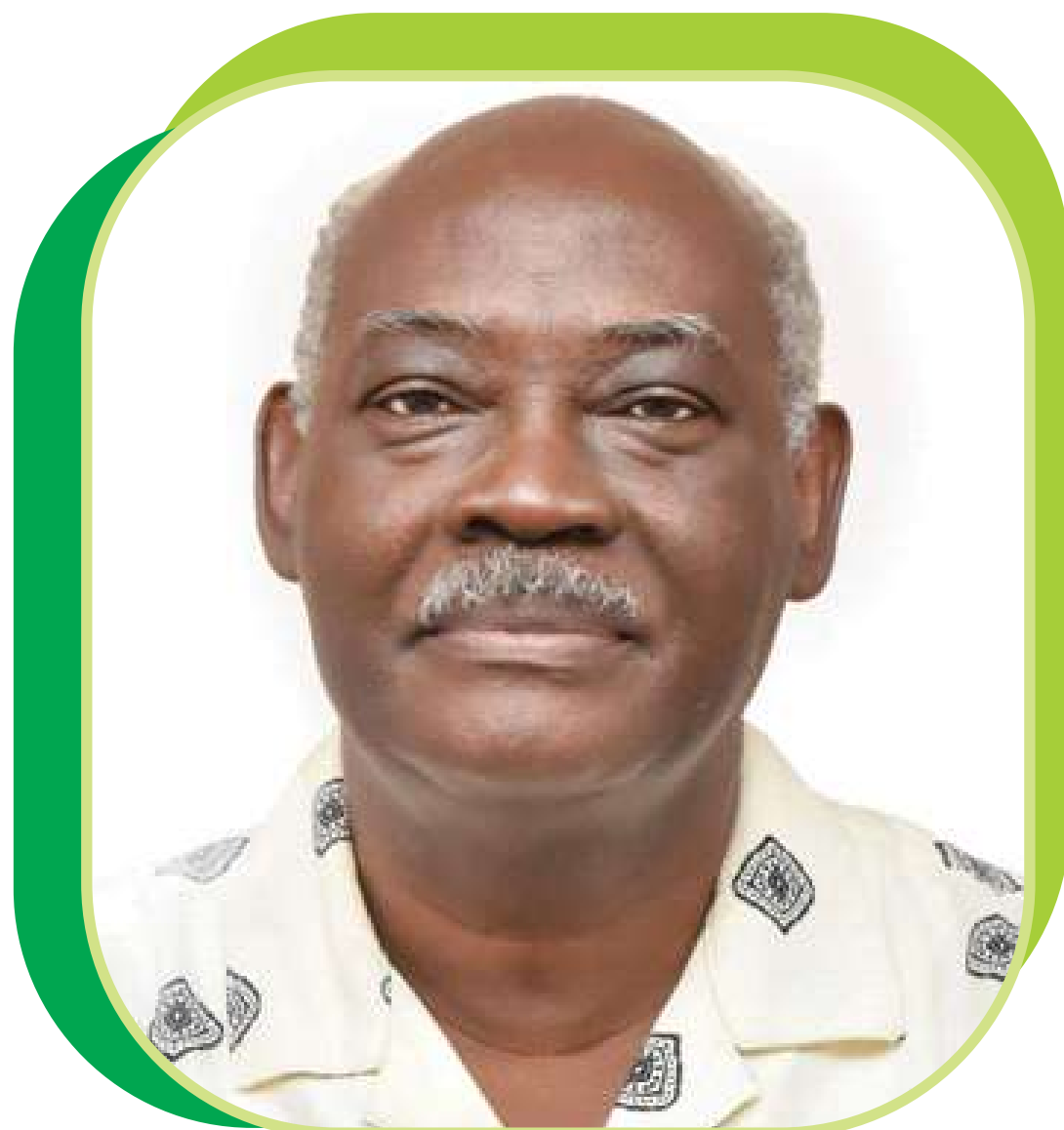
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PROF. EMMANUEL BABAFUNSO SONAIYA

FNSAP, FASAN, FNIAS.

KEYNOTE SPEAKER

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JOHN TOYIN TAIWO

RAS, FASAN

CHAIRMAN,
LOCAL ORGANIZING COMMITTEE

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ABUJA 2023

**LOC CHAIRMAN'S WELCOME ADDRESS
AT THE 12TH ASAN-NIAS JOINT ANNUAL MEETING/
28TH 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 12th 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"

I welcome, this year's JAM Chairman, His Excellency, former Governor, Kano State and the National Chairman of the ruling Party of our Nation, Dr Abdullahi Umar Ganduje CON

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 7th November, 2023, as one of the preludes to the 2023 JAM. Winners will receive prizes during the ceremony today.

I congratulate the newly Inducted Fellows, Registered Animal Scientists, Associate Animal Scientists and other Awardees.

WELCOME TO ABUJA, CENTRE OF UNITY
Thank you.

JOHN TOYIN TAIWO RAS, FASAN
Chairman, Local Organizing Committee.

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ABUJA 2023

Programme of Events

SN	TIME	ACTIVITY	DESIGNATE
1	Sunday 12 th November, 2023	Arrival of Participants/Registration	
Monday 13th November, 2023			
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 Theme 2: <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, Emmpepek 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
Tuesday 14th November, 2023 The Opening Ceremony/NIAS – FCASN, RAS & AAS Induction			
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 nd 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 of 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	Welcome Address	His Excellency NYESOM EZENWO WIKE, CON HONOURABLE MINISTER FCT
	10:20-10:30am	Chairman's Address	His Excellency, Dr. Abdullahi Umar Ganduje, CON
12	10.30-10.40 am	Opening Address	Hon Minister of FMAFS SENATOR ABUBAKAR KYARI, CON
13	10:40-11:00am	Keynote Address	Prof. Emmanuel Babafunso Sonaiya
14	11:00-11:20am	Product presentations	N-LMP, LPRES, FDH Agrovets
15	11:20am - 12:00noon	Awards • Secondary School Quiz Winners • Distinguished Animal Scientist –DAS- ASAN • Life Membership of ASAN • Fellowship – FCASN– NIAS • Others	
16	12:00noon - 12:03pm	Invitation to Initiate Induction	NIAS Registrar
17	12:03-12:05pm	Convocation of the Induction	NIAS President
18	12:05-12:10pm	Code of Conduct for Associate Animal Scientist and Registered Animal Scientist	NIAS Registrar
19	12:10-12:05pm	Presentation of Inductees	NIAS Registrar
20	12:05-12:08pm	Invitation of Judge	NIAS Registrar
21	12:08-12:18pm	INDUCTION: Associate Animal Scientists (AAS) and Registered Animal Scientists (RAS)	His Lordship the Chief Judge of FCT
22	12:18-12:28pm	Exhortation	NIAS President
23	12:28-12:30pm	Invitation of NIAS President to close the Induction ceremony	NIAS Registrar
24	12:30-12:32pm	Closing of the Induction ceremony	NIAS President
25	12:32-12:35pm	Vote of Thanks	NIAS Vice President I
26	12:35-12:38pm	Closing Prayer	
27	12:38-12:40pm	National Anthem	
28	12:40pm	Recession	
Group Photograph /Visit to exhibition stands			
30	12.50 – 2.00pm	Lunch & Prayers Break	
31	2:00-4:30pm	ASAN AGM	ASAN
		Closing	
Wednesday 15th November, 2023			
		Departure	

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ABUJA 2023

Distinguished Animal Scientist (DAS) Inductee



Prof. Bartholomew Ifeanyi Nwagu

RAS, FCASN, FNSAP

ASAN Life Membership Inductees



Prof. Musibau Adungbe Bamikole
RAS, FASAN



High Chief
Simeon A. Ohwofa
RAS, FASAN, FNIA, FCASN



Prof. Olusegun Ojeniyi Ojebiyi
RAS

NIAS Fellow, College of Animal Scientists of Nigeria (FCASN) Inductee



MR. RAYMOND ISIADINSO
RAS, FNIA, FASAN



PROF. PETER PANO BARJE



PROF. OLUSEGUN OJENIYI OJEBIYI
RAS



PROF. TAIYE SUNDAY OLUGBEMI



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

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ABUJA 2023

SCIENTIFIC SUB-COMMITTEE OF LOC ASAN-NIAS JAM ABUJA 2020.

1. PROF A. A ODUNSI – CONVENER AND CHAIR
2. PROF YASHIM SULEIMAN MAKAMA - ABU, ZARIA
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)

ABUBAKAR, O. J (DR)
 ADETOLA, O. O (DR MRS)
 ADEYEMI, A A (DR MRS)
 AGAVIEYOR, B. O. (PROF)
 AGUBOSI, O.C.P (DR)
 AKANDE, K. E (DR MRS)
 ALAGBE O. J. (DR)
 ALIYU, KARIMAT (DR MRS)
 AMAO, S. R (DR)
 ARUWAYO, ADEBAYO (PROF)
 HARUNA, M. A (DR)
 IBIWOYE, K. O (DR)
 IBRAHIM, T. A (DR)
 JIWUBA, P. C (DR)
 MAFIMIDIWO, A. N (DR)
 ODUNSI, A. A. (PROF)
 OJOAWO, O. T (DR MRS)
 OLAGOKE, O. C (DR MRS)
 OLUWAFEMI, R. A (PROF)
 ONABANJO, R. S. (DR)
 RAFIU, T. A. (DR)
 SIKIRU, A. B. (DR)

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	GROUP 1	ANIMAL BREEDING & GENETICS/ ANIMAL BIOTECHNOLOGY/ MICROLIVESTOCK & AQUACULTURE	CHAIRMAN: Dr SHOYOMBO, Ayo	RAPPORTEUR: Dr JUBRIL Ahmed	
SN	CP	AUTHORS	CORRESPONDING ADDRESS	TITLE	Pages
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., ² 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, Ladoke 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 andChidinso 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 (f1 sugar king) by edible fungi	59-62

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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. Odokoya	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	¹ 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. Akanniand 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,	¹ 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	¹ 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; Noseregbe, 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 [†] and Onwumere-Idolor, S.O [*]	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.	¹ 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

	GROUP 2	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-Ibom 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. G.,	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. 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 Uwaeziosi 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 Ojebiye, O. O	¹ Dept. of Animal Production and Health, Ladoko Akintola University of Technology, Ogbomosho	Growth performance, nutrient digestibility and blood profile of rabbits fed varied supplementation levels of negro pepper (Xylopi aethiopica)	183-186
16	097	Panuel, B., Musa, N. and Abbaya, H.Y	¹ 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., Nnaji for, 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, Adekoyo 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., Aboluja, 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., Aboluja, A.B., and	Department of Animal Science, Taraba	Histopathological characteristics of broiler chickens	200-203

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22	122	Umar, A.M., Idris, A.A., Nayawo, A.A., Sekiwa, A.Y., Musa, S.B., Muhammad, A.S. and Dahiru, M	Department of Animal Science, Federal University, Dutse,	Nutritional composition of skewed meat (tsire) sold in Dutsemetropolis, Jigawa State	207-209
23	124	Adeyemi A.A., Onyema C.C, Adesola E.T. and Adejumobi E.O.	Department of Animal Sciences, Obafemi Awolowo University, PMB 13, Ile-Ife.	Reproductive and serum indices of female rabbits fed guava leaf meal	210-213
24	137	Obisesan, O.M., Anifowose, O.R., Ajibade, A.O., Adelakun, O.D., Maruf, N.B.	Department of Animal Health Technology, Oyo State College of Agriculture and Technology, Igboora.	Isolation and resistance pattern of bacteria from moribund Clarias gariepinus	214-217
25	138	Okon, U. M., Ekpo, J. S. and Nuamah, E.	Department of Animal Science, Faculty of Agriculture, Akwa Ibom State University,	Sensory characteristics and proximate composition of barbecued rabbit biceps femoris cured with varying levels of Monodoramyristica	218-221
26	148	Akinbola E.T. and Ewuola E. O.	Department of Animal Science, University of Ibadan, Ibadan.	Effects of seasonal temperature humidity index and sexual dimorphism on thermophysiological responses of geese reared in Southwest Nigeria	222-226
27	151	Olujimi A. T and Ewuola E. O.	Department of Animal Science, University of Ibadan, Ibadan	Spermatozoa characteristics in layer breeder cock semen extended with different diluents in vitro	227-230
28	161	Obinna, A. L; Eze, V. I. N.; Udeh, V.C. and Machebe, N.S.	Department of Animal Science, University of Nigeria, Nsukka, Enugu State, Nigeria.	Growth performance and serum biochemistry of broiler chicken administered gmelina arborea leaf extract	231-233
29	167	Solomon, I. P., Mathew, S., Istifanus, E. F. and Tom, E. E.	Department of Animal Science, University of Uyo, Uyo, Akwa Ibom State, Nigeria	Haematological profile and Serum biochemistry of rabbit bucks fed supplemental levels of Saccharomyces cerevisiae	234-238
30	170	Ogunlade, J. T., Adeyemo, A.B. and Adebayo, T.S.	Department of Animal Science, Ekiti State University, Ado-Ekiti.	Fertility, hatchability, egg quality and serum biochemical parameters of Japanese quails reared under two housing systems	239-241
31	171	Adeniyi, A.O., Afolabi, R. A., Nwachukwu, J. I., Onu, H. C. and Agaviezor, B. O.	Animal Science Department, University of Port Harcourt, Port Harcourt.	Effect of Antibiotics Alternatives (Probiotics) on Biochemical Parameters of Arbor Acre Broiler Chickens	242-245
32	177	Saheed Abimbade, Adeyemi, I BRAHIM, Nafisa Abdulmumi ni, Sukurah Kehinde, Omotosh o Sule Bamidele, Akinleye, Moshood Abiola HARUNA	Department of Animal Science, Al-Hikmah University, Kwara State	Meat quality and organoleptic properties of broiler chicken fed graded level of syzygiumaromaticum as feed additive	246-249
33	182	Atte, P. O., Afolabi, A.S., Lawal, A.N., Olayinka, I.O. and Abisoye, F.O	College of Agriculture Kabba, Division of Agricultural Colleges, Ahmadu Bello University, Zaria,	The haematological and oxidative profile of cattle in kabba municipal abattoir	250-252
34	183	Oluwatoyinbo T. O and Ayoola, M. O	International Livestock Research Institute, Idi Ose, Oyo Road, IITA, Ibadan, Oyo State	Effect of aqueous extract of Parquetinagrescens on the hematological parameters and serum biochemistry of starter broiler	253-256
35	184	Sanubi, J.O., Ade, S., Obakanurhe, O. Irikefe-Ekeke, E.P., Ighobesuo, B.O., Onwumelu, I.J., and Osuzoka, N.E.	Department of Animal Science and Production, Dennis Osadebay University, Anwai, Asaba, Delta State	Haematology and Serum Biochemistry of grower pigs fed dietary Sweet Potato Leaf Meal (Ipomoea batatas) as replacement for Soya Bean Meal	257-260
36	197	K.I Aliyu, F.O Ajetumobi., A. Bello; E.A Peace; A.O Wisdom.	Department of Animal Science, University of Abuja, Abuja	Evaluation of reproductive parameters of rabbit buck fed papaya seed oil	261-263
37	198	Amao, E. A., Amao, O. D., Omoboko, D., Ilesanmi S. G., Rafiu, M. A. and Agbaye, F. P	Department of Animal Production and Technology, The Oke-Ogun Polytechnic, Saki, Oyo State,	Hormonal profile of rabbit does fed varying levels of clove powder	264-266
38	203	Ahmed, G., Kalla, D. J. U and Shehu, L. M.	Department of Animal Production, Abubakar Tafawa Balewa University, Bauchi	Comparative evaluation of nutrient composition and sensory attributes of kilishi from camel, beef and other red meat sources	267-269
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SN	CP	AUTHORS	CORRESPONDING ADDRESS	TITLE	Pages
1	001	Mustapha, A., Makinta, A. A., Benisheikh, A. A., Isah, A.. Sani I	Department of Animal Production Technology, Ramat Polytechnic Maiduguri, Borno State,	Performance characteristics of broiler finisher fed phytoadditives in semi arid zone of Nigeria.	270-272
2	010	Sylva-Nyom, I. and Mashi,	*Department of Animal Health and	Haematology and Serum Biochemistry of Finisher	273-276

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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 (Brassica oleracea var. capitata) leaf residues on broiler performance, ileal digestibility and total tract nutrient retention	281-284
5	016	Kure, A.J. and Adamu, J.L.	Department of Animal Health and Production, Federal Polytechnic Bali, Taraba State	Performance and carcass characteristics of broilers administered lactic acid bacteria at finisher phase (Lactobacillusburgaricus)	285-287
6	017	Adeyemi, M. A. and Akinfala, E. O	Department of Animal Production and Health, Olusegun Agagu University of Science and Technology, Okitipupa	Response of grower-finisher pigs to cassava plant meal-based diets	288-290
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 (Hibiscus sabdariffa) calyx	291-292
8	020	Amusa, H. O., Ogunbenro, 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 (Manihot esculenta) plant meal-based diets	296-299
10	023	Diri, M. and Johnson, N. C.	Department of Animals Science, Rivers State University, Port Harcourt	Garlic and Ginger Are Suitable Replacers for Antibiotics in Broiler Chicken Growth and Feed Efficiency	300-302
11	024	Nte, I. J., Alali, I. A. and Owen, O. J..	Department of Animal Science, Rivers State University, P. M. B. 5080, Port Harcourt,	Haematological and serum enzyme indices of finisher broiler chickens administered aqueous extracts of Tetrapleura tetraptera fruit	303-306
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 heamatological parameters of weaner rabbits.	307-310
13	027	Adebowale, T.O., Oso, A.O. and Bangbose, A.M.	Department of Animal Nutrition, Federal University of Agriculture, Abeokuta.	Supplementation of methionine and lysine improved performance and gut morphology of broiler chickens fed cassava peel meal-based diet	311-312
14	028	Obasi, I. U., Obasi, E. N., Ogbuewu, I. P., Okoli, I. C. and Etuk, E. B	Department of Animal Science and Technology, Federal University of Technology, Owerri	Seventh-day response of broiler chickens to additives produced from Aspilaafricana leaves using different extraction methods	313-316
15	030	Ogbamgba, V. M. & Johnson N.C.	¹ Department of Animal Science, Rivers State University, Port Harcourt, Rivers State	Tridax procumbens improves growth performance of rabbit bucks through feed intake and feed efficiency	317-319
16	033	Bandawa, G. J. ,Abbaator,, F. I. ² and Gambo M.	¹ Department of Animal Health and Production, Federal Polytechnic Bali, Nigeria	Effects of graded levels of cassava peels (Manihot esculentum crantz) supplementation on haematological indices and carcass characteristics of bucks fed a basal diet of gmelina arborea leaves	320-323
17	034	Bako, B.A., Adebisi, I. A., Oloko, A.B., Adams, T.O., Ogunbenro, S.D., Akinjogbin, T.A., Falola, O.O., Adesope, A.T., and Maradesa, P.A	Department of Animal Production Technology, Oyo State College of Agriculture and Technology, Igboora, Oyo State.	Haematological indices of commercial broiler chicken fed Ocimumgratissimum leaf meal as synthetic antibiotics alternative	324-327
18	035	Raji, M.O., Sule, R., Oloko, A.B., Aruna, A.O., Fasasi, M.O., Azeez, L., Oso, A.O and Bamgbose, A.M	Department of Animal Production Technology, Oyo State College of Agriculture and Technology, Igboora, Oyo State	Economy of production of broiler starter and finisher fed formulated and four different commercial feeds	328-331
19	036	Gulukun, E. Z; Ari, M; Alu, S. E; Guluwa, L. Y; Wumnokol, D. P	Department of Animal Production Technology, Plateau State College of Agriculture, Garkawa.	Effect of differently processed kidney bean (Phaseolus vulgaris) seed meal on nutrient digestibility of grower rabbits	332-335
20	037	Azodo, L.N., Uzoma, C., Adetutu, O.I., and Olabode, A.D.	Federal college of Agriculture, Ishaigu, Ebonyi State.	Effect of Ginger lily (Costusafer) extract on the growth performance and cost benefit analysis of finisher broiler birds	336-339
21	038	Amos, M., Olabode, A.D., Eli, E., Idris, M. and Olabode, D.A.	Federal college of Agriculture, Ishaigu, Ebonyi state	Impact of Black Plum Leaf Meal on the Growth Performance and Serum Biochemistry of Finisher Broiler Birds	340-343
22	047	Adams, T.O., Raji M.O., Atilola, O.S., Emiola, C.B., Mustapha, T.B., Adetona, T.A	Department of Animal Health and Production, Oyo State College of Agriculture and Technology, Igboora, Oyo	Effect of ground maize cob as a replacement for wheat offal on carcass characteristics of weaner rabbits	344-347

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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 Fafolu, 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	
27	065	Ezenwosu, C., Onyimonyi, A. E., Osita C. O	Department of Animal Science, University of Nigeria, Nsukka, Nigeria	Effect of sodium bentonite and aluminum as feeding and litter management protocols on nutrient digestibility in noiler starter chickens	
28	066	Irivboje, O.A. and Olufayo, O.O.	Department of Agricultural Technology, The Federal Polytechnic, Ilaro.	Impact of Different Levels of Plantain Peel Meal in Broiler Chicken Diets on Growth Performance during the Finished Phase	
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	
30	070	Ajimohun Felicia Folashade	Rabbitary Division, National Veterinary Research Institute, Vom, Nigeria	Nutrient digestibility of weaner rabbits (<i>Oryctolagus Cuniculus</i>) offered rice offal as a replacement for wheat offal	
31	071	Adeosun A. O., Akindele W. O. &Olarinwa, O. S.	Animal Science Unit, Oyo State College of Education, Lanlate, Oyo State.	Effects of varying inclusion levels of sundried cattle rumen content (SCRC) on carcass and haematological parameters of grower rabbits	
32	072	AKINSUYI M.A. and FATUFE A. A.,	Department of Agricultural Technology, Ekiti State Polytechnic, Isan Ekiti	Performance and nutrient digestibility of locally adapted and exotic turkey fed varying energy/protein ratio diets in the humid tropics	
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1	Mr. John Toyin Taiwo.	LOC	Chairman
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3	Mr. Jacob Kuusu	LOC	Assistant Secretary
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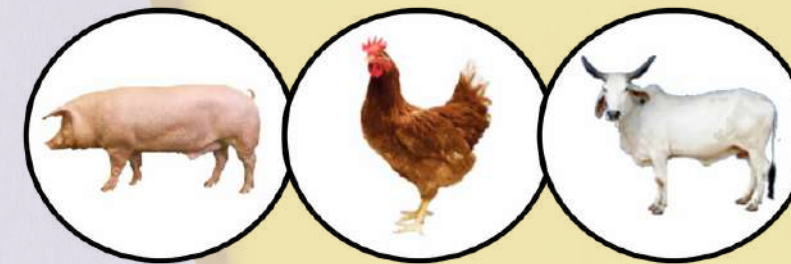
On behalf of the Local Organizing Committee we will like to take the opportunity to express our gratitude and appreciation to;

1. Mid-Century Agro-Allied Ventures Ltd.
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7. Livestock Productivity and Resilience Support Project
8. International Livestock Research Institute
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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



Timeline/Duration:
18 MONTHS.

Technical Partner:



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

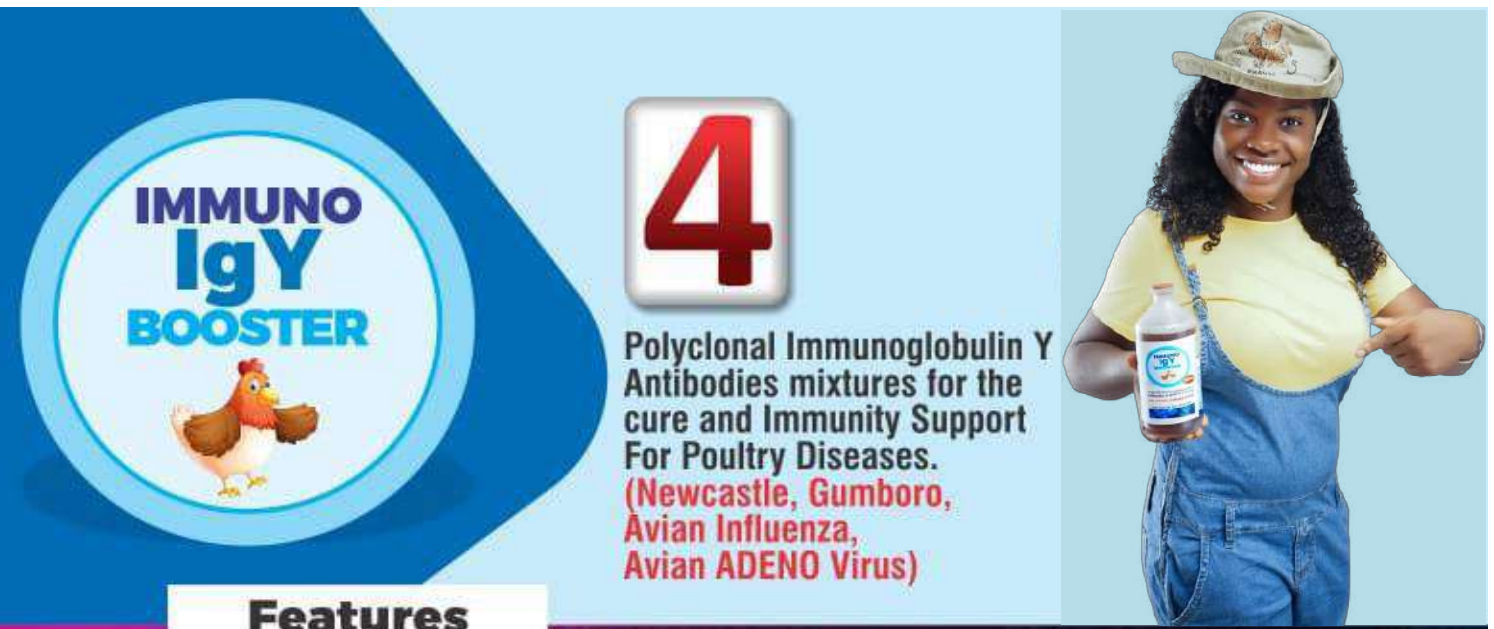


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4

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What is IMMUNO-IgY?: They are large Y- shaped blood proteins produced by plasma B cells in the bone marrow and extracted from the egg yolk, purified for specific antibody against a disease. Immunoglobulin Y is not a vaccine, it is a direct antibody injection for direct attack on Viral Pathogens in Birds. It gives a rapid solution from morbidity and mortality from Viral Disease occurrence.

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

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.



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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.

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