



INSTITUTE OF AGRICULTURAL RESEARCH AND TRAINING, OBAFEMI AWOLowo UNIVERSITY, MOOR PLANTATION, IBADAN

Monthly News.... September, 2026

IAR&T.....Improving Farmers' Productivity and Livelihood

Science in Service of Humanity:

Determinants of Household Food Consumption Diversity in Rural SouthWestern Nigeria

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Overview of the Study:

This research examined the factors influencing Food Consumption Diversity (FCD) among farming households in rural SouthWestern Nigeria. The study addresses an important paradox in Nigerian agriculture: although agriculture provides employment for over 90% of rural dwellers and rural areas accommodate about 70% of the population, malnutrition and food insecurity remain widespread. Thus, agricultural production does not necessarily translate into adequate and nutritious food consumption.

Food Consumption Diversity, measured by the variety of food groups consumed by households, is an important indicator of dietary quality and food security. A diverse diet is closely associated with the four pillars of food security: availability, accessibility, utilization, and stability. The study therefore provides empirical evidence that can support policies and interventions aimed at improving nutrition, food security, and the quality of life of rural farming households.

Methodology and Scope:

The research covered the SouthWestern agricultural zone of Nigeria, comprising eight States and representing approximately 12% of the Country's landmass. Using a multistage sampling procedure, **Edo, Ondo, and Oyo States** were randomly selected, after which farming households were proportionately sampled. Based on a 95% confidence level and an estimated farming household population of 1,788,384, a target sample size of 400 households was determined, with **342 valid responses** obtained through structured questionnaires.

Three major analytical approaches were employed. Descriptive statistics were used to examine the socioeconomic characteristics of the households. A **Mean Food Consumption Diversity Index** was used to classify households into low, moderate, and high FCD categories based on consumption of six major food groups: Tubers/Roots, Cereals, Legumes, Fruits/Vegetables, Animal Protein, and Fats/Oils. A **Multinomial Logit Regression Model** was subsequently used to identify factors influencing the likelihood of households attaining higher levels of food consumption diversity.

Major Findings:

The study revealed that food consumption diversity among farming households remains generally inadequate. **78.9% of households had moderate FCD, 12.9% had low FCD, and only 8.2% had high FCD.** Thus, although most households consumed more than one food group, only a small proportion achieved a highly diverse diet capable of supporting optimal nutrition. Differences were also observed across States: Ondo recorded the highest proportion of households with high FCD (13.2%), while Oyo recorded the highest proportion with low FCD (26.2%).

Socioeconomic characteristics were significantly associated with dietary diversity. Male-headed households recorded a higher average FCD (0.67) than female-headed households (0.55). FCD also increased significantly with farm size, suggesting that larger farms may provide households with greater access to diverse foods through

own production and/or higher income. Households with access to agricultural extension services recorded higher FCD (0.68) than those without access (0.60), demonstrating the importance of agricultural education and advisory services in improving nutrition. Income was another major determinant: households earning above ₦91,000 per season recorded the highest FCD (0.72), whereas those earning below ₦30,000 had the lowest (0.58). Secondary education of the household head was also positively associated with higher FCD.

The Multinomial Logit Analysis identified eight important factors influencing Food Consumption Diversity. **Distance to market, access to food-price information, access to information on product availability, household size, total income, and farm size** were positively associated with higher FCD. The positive effect of distance to market was contrary to expectation and may indicate that households located farther from markets depend more heavily on diverse farm production for their food needs. Access to price and product-availability information also enables households to make better purchasing decisions and obtain foods that may not be locally available. Larger households may benefit from a greater family labour force, which can contribute to increased farm output and income.

Two variables had significant negative relationships with FCD. The **education level of the household head** unexpectedly had a negative effect, which the study attributed to generally low literacy levels that may limit appreciation of the nutritional benefits of dietary diversification. In addition, **expenditure on Legumes** was negatively related to FCD. The relatively high cost of Legumes may force households to devote a large proportion of their food budget to this single food group, thereby reducing expenditure on other food groups and lowering overall dietary diversity.

Role of IAR&T:

The **Institute of Agricultural Research & Training (IAR&T)** played a central role in the research, reflecting its mandate and capacity in agricultural research, training, and development. As the institutional home of the lead researcher, IAR&T provided the academic and research environment for undertaking a rigorous, policy-relevant investigation linking agricultural production with nutrition and food security.

The study's methodological approach including multistage sampling, development of the Mean Food Consumption Diversity Index, and application of the Multinomial Logit Model demonstrates the Institute's technical capacity for conducting empirical research capable of informing agricultural and food-security policy. The findings further position IAR&T to contribute beyond research through policy advocacy, technological innovation, training, and extension.

A particularly important recommendation for IAR&T is the development of **affordable Legume varieties**, given the finding that the high cost of legumes constrains overall dietary diversity. The Institute can also strengthen agricultural extension and training by incorporating nutrition-sensitive agricultural practices into its programmes. In addition, its research and training capacity can support collaboration among Federal, State, and Local Governments and other stakeholders in addressing food and nutrition insecurity.

Conclusion and Policy Recommendations:

The study concludes that food consumption diversity among farming households in SouthWestern Nigeria is **suboptimal**, with the overwhelming majority classified within the moderate category. This situation has implications for household nutrition, health, productivity, and overall well-being. Importantly, dietary diversity is not determined solely by household preferences; it is strongly influenced by socioeconomic conditions, agricultural production, access to information, income, and market-related factors.

The study recommends that **Federal, State, and Local Governments** improve rural market access through infrastructure development; disseminate market and food-price information through mobile-based platforms; promote adult education with appropriate incentives; strengthen agricultural extension services; and implement nutrition education programmes. For **IAR&T and other agricultural Research Institutions**, priority should be given to developing affordable and productive Legume varieties that can reduce the financial burden on households and enable them to allocate resources to other food groups. The study also recommends the use of the Multinomial Logit Model as a policy tool for simulating the potential effects of interventions on food-security outcomes.

Overall, the research demonstrates that improving agricultural production alone is insufficient to guarantee nutrition security. A more integrated approach that links agricultural productivity, income generation, market information, extension services, affordable food production, and nutrition education is required. By contributing research, training, technological innovation, and evidence-based policy guidance, **IAR&T is strategically positioned to help transform Nigeria's agricultural sector into a stronger driver of food and nutrition security and improve the well-being and productivity of rural farming households.**

Activities and Events:

IAR&T Hosts Primary School Pupils on Excursion Visit



The Institute PRO, Mr. Ridwan Yusuff (behind) in a group photograph with the Pupils and their Coordinators during the excursion visit

On Tuesday, September 1, 2026, the Institute of Agricultural Research and Training (IAR&T), Ibadan, received young learners from YouthInvolve Community Development, Orita Challenge, Ibadan, on an excursion visit.

The excursion was organized by the Non-Governmental Organization (NGO) for the primary school pupils as part of its Expository Career Excursion Program aimed to expose the students to the vital role of modern agriculture and research in nation-building.

In line with the Institute's commitment to advancing youth inclusion in agriculture and its drive for the #CatchThemYoung Initiative, the pupils were warmly received and addressed in a child-friendly manner by the Ag. Head of the Public Relations Unit, Mr. Ridwan Yusuff, upon arrival.

Following the address, the pupils were taken on a guided tour of the Institute's facilities, which was designed to equip them with knowledge of modern agriculture in both Crop- and Livestock-based farming and research. During the tour, the Institute's team of experts delivered a practical-oriented training session.

The excursion concluded with a group photograph, after which the pupils departed the premises. At IAR&T, we remain committed to training and education in advancing agricultural research and development in Nigeria.

IAR&T Staff Participate in ARCEN Webinar Seminar, Enhance Knowledge of the ARCEN Act



Cross section of the Institute's delegates at the Webinar Seminar organized by the Agricultural Research Council of Nigeria

Staff members of the Institute of Agricultural Research and Training (IAR&T), Ibadan, on Tuesday September 1, 2026, participated in a Zoom Webinar Seminar organized by the Agricultural Research Council of Nigeria (ARCEN) for all National Agricultural Research Institutes (NARIs) and Federal Colleges of Agriculture (FCAs).

The virtual webinar, titled "Unpacking the Agricultural Research Council of Nigeria (ARCEN) Act", had over 200 participants drawn from NARIs and FCAs across the

country, including Executive Directors and Provosts. The Seminar was aimed at equipping members of the Academic Staff Union of Research Institutes (ASURI) and Academic Staff Union of Colleges of Agriculture (ASUCA), as well as the entire staff of the Research Institutions and Colleges, with the knowledge of the amended ARCEN Act, thereby enhancing their knowledge of its institutional implications.

During the meeting, vital areas of the Act were examined, including provisions for approval and policy implementation by ARCEN, mandate fulfillment, scheme of service for career progression, training programmes, as well as administrative and institutional reforms geared towards agricultural development in Nigeria. The meeting also enjoined staff of these Institutions to improve communication and stakeholder management in pursuit of their respective mandates.

Presentations were delivered by key officers, including from the Legal and Administrative departments of ARCEN, while questions and comments were adequately addressed.

The Institute's participants in attendance were, Mrs. Bamiro (Administrator/Convener), Prof. J. O. Saka (Researcher), Prof. K. S. Are (Researcher), Prof. O. A. Aluko (Researcher), Dr. O. T. Olanipekun (Researcher), Dr. Omotoso (Researcher/Union Leader), Mr. Ridwan Yusuff (PRO/Administrator), Miss. Famakinwa (Accountant), Mrs. Ojetola (Administrator), Mrs. Anyaorah (Administrator), Mr. Agbaje (Union Leader), Mr. Durotoye (Union Leader), and Mr. Sunday Ajagbe (IT Expert).

Staff members of NARIs and FCAs were enjoined to study the Act upon its final approval and release. Following the conclusion of the Seminar session, Mrs. Bamiro, on behalf of the Management, expressed her appreciation to all Institute's delegates for their presence and significant contributions.

NYSC Ibadan SouthWest Officials Visit the Institute, Witness the Official Commissioning of Potable Water Project for Corps Members



The newly commissioned Potable Water Project



The Director officially commissioning the Water Project



Group photograph of the Management of the Institute with the Officials of NYSC and some beneficiaries of the Project at the venue of commissioning ceremony



Group photograph of the Management of the Institute, Institute's NYSC Desk Officer, Mrs. Bamiro (3rd L) and the PRO, Mr. Ridwan Yusuff (R), with the Officials of NYSC and Corps members of the Ibadan SouthWest during the courtesy visit to the Institute

On Monday, September 14, 2026, the Management of the Institute of Agricultural Research and Training (IAR&T), Ibadan, received officials of the National Youth Service Corps (NYSC), Ibadan SouthWest on a courtesy visit. The delegation was led by the Local Government Inspector (LGI), Mr. Olayinka Gbadeyan.

The LGI, accompanied by the Assistant LGI, Mrs. Folakemi Adeola Eguakhide, and Corps members in the LGA, held their Community Development Service (CDS) meeting at the Prof. E. A. Adebawale Training Hall, Moor Plantation, Ibadan, and used the opportunity to strengthen relations with the Institute and witness the official commissioning of the potable water project for Corps members.

The courtesy visit, held at the Director's Office, was presided over by the Director, Prof. Gabriel Oluwatosin, and had in attendance other members of Management, including the Deputy Director, Prof. D. J. Ogunniyan, and Secretary to the Institute, Mr. 'Boye Popoola.

In welcoming the guests, the Institute's NYSC Desk Officer and Deputy Registrar, Mrs. Y. M. Bamiro, introduced the delegation and stated the purpose of the visit, stressing the need to further consolidate the smooth and cordial relationship between both Institutions.

In his remarks, the LGI, Mr. Gbadeyan appreciated the Institute Management for the welfare and accommodation provided for the Corps members posted to IAR&T. He also commended the Desk Officer for her dedication and commitment to ensuring a good, safe and conducive environment for Corps members to thrive during their service year. He emphasized the importance of providing an enabling environment for Corps members and deemed the Institute appropriate in this regard, hence "the reason most Corps members would always choose IAR&T as their Place of Primary Assignment (PPA)", he added.

In his response, the Director appreciated the NYSC leadership for the visit and reiterated the importance of the Scheme in fostering national unity and its valuable contribution to society. He recounted his own service year experience and reaffirmed the Institute's commitment to improving the welfare of Corps members, as demonstrated by the new potable water project for their use.

The Institute Management and the NYSC delegation thereafter proceeded to the Corps members' Lodge for the unveiling and official commissioning of the project. While giving an overview and insights into the project, the Deputy Director commended the assiduous efforts of the Desk Officer, her team and the Corps members' leadership. He specially celebrated Corps members who contributed immensely towards the project, particularly the '25 Batch C, '26 Batch A (Stream 1), '26 Batch A (Stream 2), and '26 Batch B (Stream 1).

Following the address, the Director officially commissioned the Potable Water Project for use by Corps members and humanity at large, and promised more infrastructure and improved facilities for Corps members posted to the Institute.

Also in attendance were the Public Relations Officer, Mr. Ridwan Yusuff; Administrative Officer/Assistant Desk Officer, Mrs. O. M. Ojetola; and Higher Executive Officer, Mrs. Temitope Adebayo.



IAR&T delegates at the Workshop led by the Director, Prof. Gabriel Oluwatosin (2nd L)

The Institute of Agricultural Research and Training (IAR&T), Ibadan, participated at the just concluded National Stakeholder Consultation Workshop. The Workshop was organised by the Federal Ministry of Agriculture and Food Security (FMAFS) and held in Abuja in September, 2026.

The Workshop was aimed at discussing salient issues geared towards the development of agricultural Land and Soil management policy in Nigeria. As a Research Institute with the National mandate on Soil and Water research, IAR&T remains an integral part of the Workshop and its roles cannot be overemphasized.

The Institute's delegates, led by the Director, Prof. Gabriel Oluwatosin, comprised Professors Ojo and Aduramigba-Modupe of the Land and Water Resources Management Programme (L&WRMP).

IAR&T Management Holds PTA Meeting



L-R: Members of the High-table during the PTA meeting, including the Deputy Director, Prof. D. J. Ogunniyan (2nd R); the Secretary to the Institute, Mr. 'Boye Popoola (M); the School Overseer, Prof. S. B. Fasoyiro (R); Committee Chairman, Prof. O. A. Aluko (2nd L) and; Committee Secretary, Mrs. Anyaorah (L)



Cross section of the parents/guardians and teachers at the meeting

On Monday, September 21, 2026, the Management of the Institute of Agricultural Research and Training (IAR&T), Ibadan, met with the Parent-Teacher Association (PTA) of the IAR&T Staff School at the Prof. E. A. Adebowale Training Hall, Moor Plantation, Ibadan.

The meeting was presided over by the Director, Prof. Gabriel Oluwatosin, who was represented by the Deputy Director, Prof. D. J. Ogunniyan.

The meeting was convened to address prevailing realities associated with the ongoing reforms and development of the School.

Issues bordering on the growth and development of the School were exhaustively discussed, with salient concerns raised by the parents/guardians. While Management promised to review certain concerns, it assured improved welfare for both teachers and students, as well as quality service delivery geared towards the advancement of the School.

Also in attendance for the meeting were, the Secretary to the Institute, Mr. 'Boye Popoola; the School Overseer, Prof. S. B. Fasoyiro; Chairman of Institute's Committee for the School's Development, Prof. O. A. Aluko; and Secretary to the Committee, Mrs. Anyaorah.

IAR&T Management Holds PTA Meeting



Group photograph of the Director, rep. by Prof. A. J. Omole (M) with the Officials of the National Directorate of Employment (NDE) and the Trainees after the Opening Ceremony



Cross section of the participants during the training

The Institute of Agricultural Research and Training (IAR&T), Ibadan, through its Entrepreneurship Centre, in collaboration with the National Directorate of Employment (NDE), had a specialized training Workshop for youth and women under the 3rd Phase of the Renewed Hope Employment Initiative (RHEI-3). The Opening Ceremony was held on Wednesday, September 23, 2026, at the Prof. Veronica Obatolu Building (formerly AVAEC Building) of the Institute.

The ongoing Workshop, which will run for six months, is aimed at equipping unemployed youth and women across the nation with practical and entrepreneurial skills to ensure self-reliance and sustainable livelihoods.

The Ceremony commenced with a welcome address delivered by the Institute's Training Coordinator and Head of the Entrepreneurship Centre, Prof. A. J. Omole. In his address, Prof. Omole assured the participants of a quality and impactful training experience and enjoined them to take full advantage of the opportunity by actively participating in all activities.

The Oyo State Coordinator of the NDE, Mr. Oke Paul Adegboye, gave a brief speech reiterating the purpose of the Workshop, while the Director-General of the NDE, H.E. Silas A. Agara, who was represented by Mrs. Olamide Alabi, underscored the significance of the training. She emphasized that the Workshop was specifically designed to equip participants with relevant knowledge, hands-on skills and entrepreneurial capacity to improve self-reliance and create sustainable livelihood opportunities, especially in agriculture. She therefore urged all participants to be fully committed throughout the training period.

While delivering goodwill messages, Mr. Odewoye and Mrs. Alaka of the NDE charged the participants to be attentive and engaging throughout the training period and wished them well.

Speaking on behalf of the participants, Mrs. Adeyemi Ifeoluwa and Mr. Oluwatobi David expressed their appreciation to the Institute's Management, the NDE and all stakeholders involved in organising the Workshop. They shared their expectations and expressed optimism that the practical knowledge and skills to be acquired would improve their capacity and ultimately their livelihoods.

The Director, Prof. Gabriel Oluwatosin, who was represented by Prof. A. J. Omole, expressed delight at the partnership with the Directorate for trusting the Institute's capability. He enjoined participants to maximize the opportunity, noting the expertise of the Institute's training team. He charged them to be dedicated, open-minded and committed to the Workshop, while assuring them of a rewarding experience.

Following the Vote of Thanks said by a representative of the participants, the Ceremony concluded with a group photograph at the training venue.

Also in attendance for the Opening Ceremony were the Rural Employment Promotion Officer, NDE, Mrs. Anjorin Tame E.; Miss Ojewole N. (Rep. of the Head, WEB/ICT, NDE); and Miss Arowosoge of the Institute's Public Relations Unit.

IAR&T Holds Seminar on Postgraduate Studies, Evaluates Theses of Staff-in-Training



L-R: The Chairperson, IAR&T Seminar Committee, Prof. Ande; Dr. Aforijiku; Dr. Akinyosoye; Prof. S. A. Olakojo; the Director and Chairman, Prof. Gabriel Oluwatosin; Dr. Olaniyi; Mr. Adewumi and; the Provost, FCA, Ib., Prof. J. J. Atungwu in a group photograph during the Seminar



Cross section of the participants during the Seminar

The Institute of Agricultural Research and Training (IAR&T), Ibadan, through its Seminar Committee, organized a Postgraduate Study Review and Evaluation Seminar for its staff. The Seminar was held at the Prof. E. A. Adebowale Training Hall, Moor Plantation, Ibadan, on Wednesday, September 30, 2026.

In her welcome address, the Chairperson of the Seminar Committee, Prof. O. T. Ande, encouraged all Scientists to make the most of the exercise. She emphasised that the seminar was designed to enhance the quality of postgraduate research and urged the presenters to ensure that their research would make meaningful contributions to national development. She also appreciated the presence of the Presenter's supervisor for their commitment to the academic review process.

The Seminar was chaired by the Executive Director of the Institute, Prof. Gabriel Oluwatosin. In his address, he welcomed participants and enjoined them to be active and engaging, noting that the Seminar aimed to advance research and academic excellence.

The three postgraduate presentations were delivered by Mr. Adewumi Adedotun of the Grain Legumes Improvement Programme (GLIP); Dr. Aforijiku Samuel of the Agricultural Value Addition Programme (AVAP); and Dr. Akinyosoye Solomon Tayo of the Grain Legumes Improvement Programme (GLIP).

Following their exhaustive presentations, Professors, Scientists, and other participants engaged the presenters through insightful contributions, questions, observations, and constructive criticism. As a special guest, Provost of the Federal College of Agriculture (FCA), Ibadan, Prof. J. J. Atungwu, appreciated the Management and expressed his delight at the invitation. He offered his comments and encouraged the scientists to continue to solve problems through demand-driven research activities geared towards ensuring food and nutrition security in Nigeria.

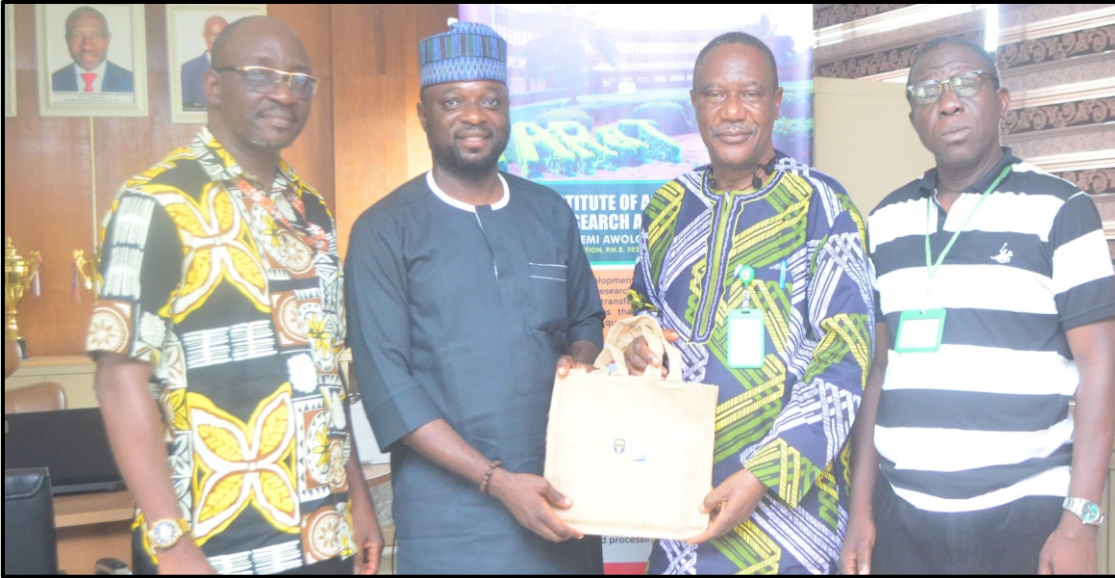
The presentations were subsequently evaluated and scored by the Review Panel comprising Professors Lawal, Ojo and Oyegbami.

The Seminar concluded with a Vote of Thanks, delivered by Dr. A. S. Amusat on behalf of the Seminar Committee. He expressed appreciation to the Management of the Institute, the guests, supervisor, Professors, Presenters, and

technical crew for contributing to the success of the programme.

Among those in attendance were Dr. O. W. Olaniyi of the Department of Crop and Horticultural Sciences, University of Ibadan; Heads of Programmes/Units/Centres; Professors; Scientists; Technologists; and other members of staff of the Institute.

Visitation:



Group photograph of the Director, Prof. Gabriel Oluwatosin (2nd R); the CEO/Founder, Overloed Integrated Agro Farms Limited (2nd L); the Head of the Kenaf and Jute Improvement Programme, Prof. O. A. Aluko (L) and the Head of the Crop and Livestock Production Unit, Prof. J. A. Adetumbi (R) during a working visit of the CEO to the Institute, September 24, 2026

On Air and On Point: The Institute Broadcasts on Radio

IAR&T, being the Zonal Coordinating Institute of Research Extension Farmers Input Linkage System (REFILS) in the South West region, continues to sustain the Flagship Radio Programme “Agbe Asejere” (Profitable Farming) on five (5) stations spread across the South West geopolitical zone. Through this radio programme, Institute's innovations, research breakthroughs, newly developed and improved technologies are now better accessed by the end users, with positive feedback from listeners across the Zone since the programme's inception in 2019.

Currently, the weekly programme is being aired on the following radio stations:

FRCN -Amuludun F.M. 99.1Mhz	–	Ibadan (Thurs. 8.45pm)
OSBC Osun Radio F.M. 104.5Mhz	–	Osogbo (Tues.7.15pm)
Paramount F.M. 94.5Mhz	–	Abeokuta (Thurs.8.45pm)
BCOS Ajilete F.M. 92.1Mhz	–	Ogbomoso (Tues.8.15pm)
BCOS Oke-Ogun F.M. 93.6Mhz	–	Alaga (Tues. 8.15pm)

Announcements:

IAR&T YouTube Initiative:

The Institute of Agricultural Research and Training (IAR&T), Ibadan through the Public Relations Unit, has commenced a weekly video content uploads on its official YouTube channel. This Initiative is aimed at putting IAR&T on the global map by disseminating the Institute's technologies to relevant agricultural stakeholders.

The weekly series will connect researchers, farmers, the private sector, and government agencies with the mandate and services of the Institute. The Institute's Scientists across varying specializations will address issues in agriculture to drive adoption and impact.

As a partner, you can connect with this Initiative by visiting the Institute's official YouTube channel: <https://www.youtube.com/@iartibadan>.

Please like, comment, share and subscribe.

Together, let us build an inclusive and resilient agricultural sector in Nigeria.

Promotion in the Institute:

Name	Designation Promoted To	Grade Level (CONUASSCONTSS)
Dr. O. P. Ayodele	Senior Research Fellow	5
Dr. S. Aforijiku	Senior Research Fellow	5
Dr. O. O. Obisesan	Senior Research Fellow	5
Dr. I. O. Udemba	Senior Research Fellow	5
Mr. O. O. Olalekan	Deputy Director (Laboratory Services)	14
Mr. E. A. Oriola	Chief Agricultural Technologist	13
Mrs. F. S. Odebode	Chief Executive Officer	13
Mr. W. Shittu	Chief Agricultural Technologist	13
Mr. A. M. Adeniji	Assistant Chief Technologist	12
Mrs. V. O. Akinjaye	Assistant Chief Technologist	12
Mrs. T. E. Ogedengbe	Assistant Chief Technologist	12
Mr. A. Osadiya	Assistant Chief Executive Officer	12
Mr. W. I. Ilo	Assistant Chief Executive Officer	12

Death:

Unfortunately, the Institute lost one of its staff, Mrs. C. T. Arotiba, a Principal Executive Officer II from the Central Administration (Registry) Unit. Until her demise, she was a committed and dedicated staff, whose positive contributions to the growth of IAR&T cannot be overemphasized.

The Director prays for eternal rest of the dead and wishes the entire staff of the Institute, family and friends of the deceased the fortitude to bear this irreparable loss.

For more information, enquiries and partnership, visit our website: <https://iart.gov.ng/> or reach us via email: director@iart.gov.ng

Also, kindly reach and follow us on all our social media handles below:

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