



ISSUE: 21 (November, 2022)

## CRIN Partners With Lutheran World Relief; Won \$22m US Agency Award



The forward-looking, stylistically innovative works and aggressive developmental fund drive of the Executive Director of the Cocoa Research Institute of Nigeria, Dr. Patrick Adebola, has yielded a huge chunk of dividend as the Institute partners with stakeholders to win a keenly contested 22 million United States Dollars (USD) award. A team of researchers from the institute, under the guidance and leadership of Dr. Adebola was part of the group that wrote the award-winning proposal. The project will be implemented in collaboration with the Lutheran World Relief. The United States' Agency, Food for Progress Programme of the Department of Agriculture, entered into a cooperative agreement with the Lutheran World Relief to strengthen the cocoa value chain in Nigeria. The Lutheran World Relief, which was founded in 1945, owing to the impact of the World War (II), works with people based on need, regardless of race, religion or nationality. It also provides aid in

emergencies and helps families restore their lives. The organization also partners with communities to build and grow rural economies. It breaks the cycle of poverty, so that families and communities can thrive. Its main aim is to help people build self-sufficiency and create new community-owned approaches to problem-solving that will last long after its projects end.

The Lutheran World Relief is expected to carry out the project activities in Abia, Cross River, Ekiti, Akwa Ibom, Ondo and Osun States – benefitting approximately 68,000 farmers. In particular, the project will target farmers in low productivity, but highly promising areas, as well as farmers in high-density, high-productivity communities. The Institute will work with the Lutheran World Relief, together with other partners, to effectively ensure the implementation of the programme in the country.

To harmonise relevant areas of the collaboration, the Institute held a meeting with the partners on October 12, 2022. The award is expected to be implemented within the next five years. This ground breaking feat has set the tone for research collaboration towards reclaiming the prime position of the country in Global cocoa economy.



Cross section of participants at the meeting







## Research and Development Rekindled in CRIN



The doldrums of inactivity, industrial unrest and dwindling research activities foisted on the Cocoa Research Institute of Nigeria (CRIN), by a number of factors over one decade ago is now a thing

of the past; kudos to the positive radiation of the ED, Dr. Patrick Adebola. Prior to his assumption of office, various administrations of the institute have been distracted by internal industrial unressts, agitations amid dwindling research culture and poor funding, and this as in no small measure reflects on the cocoa productivity in the country. At the moment, internal industrial crises and de-motivation have been overcome as the administration of Dr. Adebola has adopted some collaborative strategies since assumption of office which undoubtedly would affect the value chain of CRIN mandate crops positively.

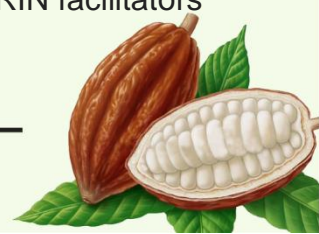
In the last two years, CRIN has collaborated with more stakeholders on skill acquisition and knowledge transfer, especially on grafting, fermentation, drying platforms, packaging and farm maintenance, among others. These assuredly will impact on quality and quantity of cocoa produced in Nigeria and minimise rejection in the global market. The institute has partnered with the Nigerian Export Promotion Council (NEPC) to train farmers to produce cashew juice at Yaku Village, in Ogbomoso, Oyo State.

Also, a workshop on cocoa, in collaboration with the South-South Region of NEPC, was organised for farmers and extension

workers in Bayelsa State, in Yenagoa and 50 participants were trained. Additionally, CRIN interactions with NEPC yielded a N50 million grant geared towards supporting the production of cash crops, particularly cocoa and cashew. In executing the terms of the award, the institute embarked on capacity building of the stakeholders at Ogbomoso and Kabba in Kogi State; other component of the grant was the establishment of a polyclonal seed garden, and CRIN successfully procured two hectares of land at Ilero (Oyo State) and Kabba College of Agriculture (Kogi State) for the purpose; about 1600 grafted seedlings of cashew were used.



Capacity building of farmers on processing cashew apples into juice by CRIN facilitators







Cross-section of the participants during the training in Yenagoa, Bayelsa State

On international collaboration, CRIN and German Industry and Commerce in Nigeria (DGIC) have partnered on cashew education and training project following the establishment of the dual vocational education system, an approach which offers an excellent skills development in Germany education system, which seeks to provide a platform for stakeholders to strengthen market for vocational education and training (VET) in Nigeria.



Endorsement of the Letter of Intent by the ED, Dr. Patrick Adebola and Head of DGIC Katharina Felgenhauer

Similar partnership was extended to the Agro-processing, Productivity Enhancement and Livelihood Improvement Support Project (APPEALS), a World-Bank assisted

project geared sustainable cashew production in Kogi East, Central and West Senatorial districts. A total of 568 cashew farmers, including youths and women, drawn from 11 clusters across eight local government areas of the state benefitted from the training.



Cross section of the participants and officials from Irepini /Ogori Communities, Kogi State



Cross section of the participants and officials from Ochaja Community, Kogi State



Cross section of the participants and officials from Imale 1 Community, Kogi State



Cross section of the participants and officials from Imale 2 Community, Kogi State







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The Institute, in collaboration with the Nigerian Export Promotion Council (NEPC), has also organized a training workshop for cocoa farmers on best agricultural practices and safe use of pesticides on cocoa. The training is in line with the efforts of the Federal Government to diversify to non-oil exports, develop better production of cocoa and its export. No fewer than 100 cocoa farmers attended the one-day training held at Cocoa Farmers' Association of Nigeria (CFAN) building in Osogbo. The beneficiaries of the training were also urged to embrace modern methods of cultivating the crop. This will improve the productivity of the crop and enhance quality of cocoa beans they produce which would result in more income for farmers as well as the country at large.



Cross section of the participants at the training

In a similar vein, a team of CRIN Scientists were in Ogute Oke via Okpella, Edo State for a training workshop. Cocoa and cashew farmers from the 6 Local Government Areas (LGAs) - Akoko Edo LGA, Etsako West LGA, Owan West LGA, Etsako East LGA, Owan East LGA and Etsako Central LGA - making up the Edo North Senatorial District, Edo State were trained on Cocoa and Cashew Production Practices, Value Chain Analysis and the Socio-economic aspects of the two crops.



Cross section of participants from Owan West and Etsako East LGAs

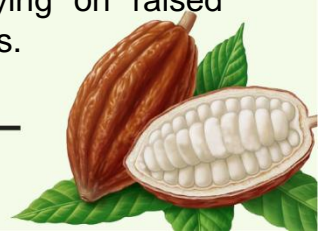


Cross section of participants from Akoko Edo and Etsako West LGAs



Cross section of participants from Owan East and Etsako Central LGAs

With a drive geared towards entrenching right practices among cocoa farmers in order to enhance quality cocoa flavour, a week long in-house panelist training was organized on flavour analysis and post-harvest clonal fermentation by the Institute. The resource person was Mrs Dorine Kassi, a consultant to the World Cocoa Foundation (WCF) on cocoa flavour quality training. It was a hands-on training that encompassed the harvesting of quality cocoa pods, breaking and fermentation of the beans under a natural shade, drying on raised platform and sensory analysis.







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Fermentation platform under natural shade



Clonal fermentation Team



Data logger for temperature measurement



Uniformly fermented cocoa bean



Sensory analysis in the Flavour Quality Lab.



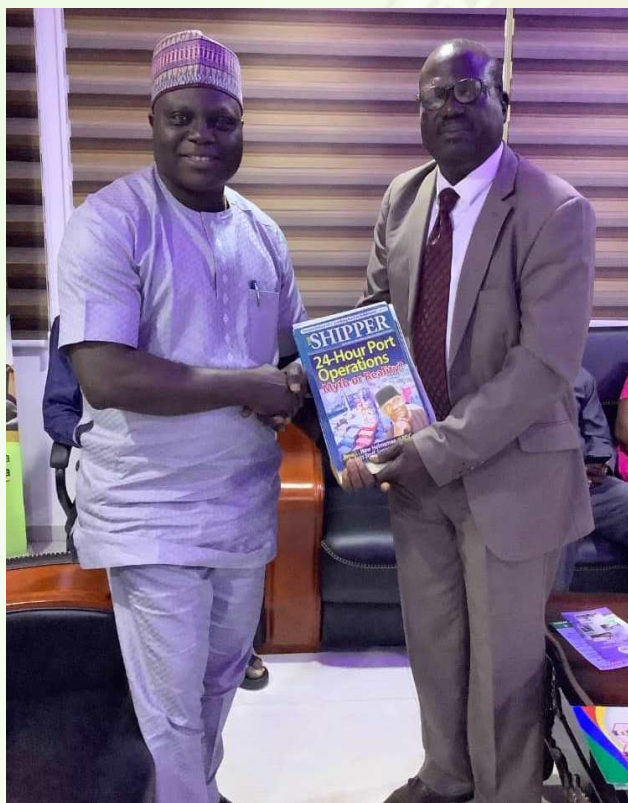
The ED with the Flavour Quality Lab. Team





In addition to research efforts, there are several ongoing structural transformations in the Institute which cut across road construction, laboratory, conference hall, electrification, training centre, perimeter fencing, furniture and Information and Communication Technologies (ICT), among others. Indeed, within just two years of assumption of office by Dr. Patrick Adebola, his achievement has far eclipsed that of his predecessors; he is fast gravitating towards the enviable status of 'Greatest Of All Time' in the annals of CRIN history.

## Courtesy Visit by the Nigerian Shippers Council



The Nigerian Shippers Council (NSC) South West (SW) Zonal coordinating office paid a courtesy visit on the Executive Director on September 27, 2022. The delegation whose visit is premised on the introduction of the Council to the ED was ably led by the Coordinator, Mr. James Atilola. In the address by Mr. Atilola, he gave a low down

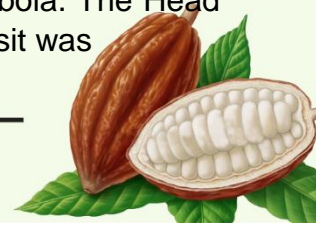
on the decree that established the NSC, the responsibility of the Council, which according to him, is to protect the interest of Nigerian shippers, viz. importers and exporters and the research focus of the Council. The Zonal Coordinator summed up by stating that the NSC is an agency that facilitates International trade and also regulates the ports by focusing on both the consumers (ports users) and the providers of transport services. He implored the Institute for cordial and harmonious working relationship with the Council in the area of research. The ED in his reaction expressed readiness to partner with the NSC in areas of research collaboration.



The ED, Dr. Adebola, NSC delegates and some management members of CRIN

## Courtesy Call by Cashew Farmers

The cashew farmers from Baruten Local Government, Kwara North paid an unscheduled visit to the Institute. The six-man representative was on the mission to solicit for training that would enhance sale of their produce. They were warmly welcomed by the Head, Economics and Extension (E&E) Department, Dr. Justina Lawal on behalf of the ED CRIN, Dr. Patrick Adebola. The Head E&E noted that the farmers' visit was a spin off from their previous





research outreach to the farmers during their execution of data bank project. In reaction to the deplorable state of the farmers' economy as a result of poor patronage of their cashew nuts, Dr. Lawal's research team sensitised them to form cooperative society. She equally stated that efforts were made to link them to uptakers such as OLAM, but lack of data on the KOR and moisture content of their nuts hampered patronage. Thankfully, the farmers heeded to the advice of the scientists by forming and registering their cooperative society with the Corporate Affairs Commission (CAC). They solicited for formal training on the determination of KOR and moisture content of their cashew nuts.



The Cashew farmers and CRIN scientists

## ARCN News

### Seminar by Livestock Department of ARCN



The Livestock Department of the Agricultural Research Council of Nigeria (ARC) hosted a seminar at the council auditorium on October 6, 2022. At the presentation, the Director in the Department, Dr Danjuma Kida welcomed everyone present and enthused that seminars are meant to enrich

the participants' knowledge and to also enlighten them. Dwelling on the topic, "Evaluation of Nephron Protective Effect of *Solanum incanum* on Copper Induced Toxicity in Wistar Rats". The presenter, Dr. Sofiat Sani, made an eloquent presentation to the admiration of all; questions were subsequently asked while comments and observations made. In his remarks, the Executive Secretary of ARC, Prof. Garba



Hamidu Sharubutu mni, noted that there is a need to mentor the younger ones for departmental presentation as well as inter-personal relationships and collaboration within the system. Another point

raised by the ES is the need for training and retraining through the establishment of experimental stations like veterinary clinic, green house and so on.

### ARC Celebrates World Food Day



World food day is observed on 16 October every year. It commemorates the date of the founding of the United Nations Food and Agriculture Organization (FAO), with the aim to increase awareness of world hunger.





and poverty and inspire solutions for world change. According to FAO, sustainable agri-food system provides a variety of sufficient, nutritious, and safe foods at an affordable price to all – so no one suffers from any form of malnutrition or hunger. Food production, consumption, and wastage impose a heavy toll on our planet and the environment. Such inefficiencies in the food system are not only costing the world trillions of dollars but, more importantly, revealing imbalances in society.

To commemorate this year's occasion, the Council held a rally to and from the Federal Ministry of Agriculture and Rural Development (FMARD) and Unity Fountain.



Participants at the event

## ARCN Appoints Some Director/CEOs Of NARIs

In what was a thorough, but credible process, and having passed through all the requirements in line with the ARC Act and the provisions of the extant rules, ARC appointed CEOs of some of our NARIs.

The names of the appointees and their effective dates of appointment are as follows:

1. Prof. Baba Gana Jugudum Kabir - Director/CEO LCRI, Maiduguri - 15/09/22
2. Dr. (Mrs) Dongo, Lelia Nkechinyere - Director/CEO RRIN Benin - 26/09/22
3. Prof. Chiedozi Ngozi Egesi - Director/CEO NRCRI, Umudike - 13/10/22

The Council, on behalf of the Executive Secretary, Prof. Garba Hamidu Sharubutu mni, congratulates the new appointees.

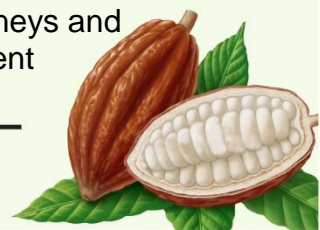
## Health News

### Diabetes Mellitus – Mrs. Bosede Famaye



Diabetes mellitus is a metabolic disease that causes high blood sugar. The hormone insulin moves sugar from the blood into the cells to be stored or used for energy. With diabetes, the body either doesn't make enough insulin or can't

effectively use the insulin it does make. Untreated high blood sugar from diabetes can damage the nerves, eyes, kidneys and other organs. There are different







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types of diabetes: Type 1 which is an auto immune disease. The immune system attacks and destroys cells in the pancreas, where insulin is made. It's unclear what causes this attack. Type 2 occurs when the body becomes resistant to insulin, and sugar builds up in the blood. It's the most common type - about 90% to 95% of people living with diabetes have type 2. Gestational diabetes is high blood sugar during pregnancy. Insulin - blocking hormones produced by the placenta cause this type of diabetes.

Each type of diabetes has unique symptoms, causes and treatments. Diabetes symptoms are caused by rising blood sugar. The general symptoms include: Increased hunger, Increased thirst, Weight loss, Frequent urination, Blurry vision, Extreme fatigue and Sores that don't heal. In addition to the general symptoms of diabetes, men with diabetes may have: A decreased sex drive, Erectile dysfunction (ED) and Poor muscle strength. Women with diabetes can have symptoms such as Vaginal dryness. Urinary tract infections, Yeast infections, Dry and itchy skin. Type 2 diabetes stems from a combination of genetics and lifestyle factors. Having overweight or obesity increases the risk too. Family members' shares genes that make them more likely to get type 2 diabetes and to be overweight.

Diabetes has complications; high blood sugar damages organs and tissues throughout the body. The higher the blood sugar is and the longer one live with it, the greater the risk for complications. Complications associated with diabetes include: heart disease, heart attack, stroke, vision loss, foot damage, such as infections and sores that don't heal, depression and dementia.

Doctors treat diabetes with a few different medications. Some are taken by mouth, while others are available as injections. Insulin is the main treatment for type 1 diabetes. It replaces the hormone the body isn't able to

produce. In the case of type 2 diabetes, diet and exercise can help some people manage it. Healthy eating is a central part of managing diabetes. A dietician can help one figure out how many grams of carbohydrate to eat at each meal. Healthy foods such as fruits, vegetables, whole grains, lean protein such as poultry and fish, healthy fats such as olive oil and nuts are desired. Along with diet and treatment, exercise plays an essential role in diabetes management. This is true for all types of diabetes: staying active helps the cells react to insulin more effectively and lowers the blood sugar levels. Exercising regularly can also help one reach and maintain a healthy weight, reduce the risk of diabetes-related health complications, boost mood, get better sleep and improve memory. Diabetes-friendly exercise includes: walking, swimming, dancing and cycling. If lifestyle changes aren't enough to lower the blood sugar, one will need to take some medications prescribed by the medical personnel.

## Staff of The Month: Oladunmoye Akinola Adeola



Mr. Oladunmoye Akinola Adeola hails from Akure, Ondo State. He was born on September 26, 1973 to the family of Mr. James and Mrs. Dorcas

Oladunmoye at the Cocoa Research Institute of Nigeria Health Centre. He obtained Primary School Certificate at CRIN Staff School in 1986, from where he proceeded to Prospect High School, Abanla where he acquired West African School Certificate (WASC) in 1992.







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He proceeded to Egbado Teachers' Training College, Ilaro, Ogun State where he obtained Teachers Grade 2 certificate in 1995. In 1998, he attended Niger State College of Agriculture, Mokwa where he bagged National Diploma in Crop Production. At the Federal College of Agriculture, Akure, he obtained Higher National Diploma in Crop Production in 2001. Furthermore, he attended Michael Okpara University of Agriculture, Umudike, Abia State and obtained Post Graduate Diploma in Crop Production in 2015.

Mr. Oladunmoye joined the service of CRIN in April 07, 2008 as Higher Agricultural Superintendent. On the 1st of October 2011, he was promoted to Senior Agricultural Superintendent cadre and subsequently to Principal 2 and Principal 1 Agricultural Superintendent in 2014 and 2017, respectively. In 2020, he was promoted to the Assistant Chief Agricultural Superintendent cadre, the position he currently occupies in the Institute. He is presently the Head of Ground Maintenance and Environmental Sanitation Services (GMESS) Unit under the Plantation and Estate Management (PEM). Mr. Oladunmoye has attended various Institute's sponsored professional training which includes: Agricultural Business at Obafemi Awolowo University (OAU), Ile-Ife, Osun State and Rehabilitation of Cocoa Plantation by Association of Agricultural Technologists of Nigeria (AATON). He is happily married.

## November Birthday Galore

Hearty birthday celebrations to the members of staff that will be celebrating their birthdays this month. Wishing you all the very best in your life endeavours. Congratulations!



Rilwanu Safiyanu A.	01-November
Odeku Olufemi O.	01-November
Ojo Mukaila	01-November
Adebiyi Solomon	02-November
Ezeorah Loveth U.	02-November
Adebisi Temitope I.	02-November
Ganiyu Saidi	02-November
Bakare Abiola A.	04-November
Ajayi Joseph O.	05-November
Asua Ime S.	05-November
Babalola Bayo	05-November
Dinni Chinedu E.C.	06-November
Christopher Uwakwe	06-November
Ajayeoba Olanipekun	07-November
Ekemube Alex R.	08-November
Mofolasayo Adewale S.	08-November







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Ebiale Benjamin	08-November	Adeleke Olaoye A.	21-November
Olaniyi Olayinka O.	09-November	Aremu-Dele Olufemi	22-November
James Musa N.	09-November	Ojo Olubunmi	22-November
Mallam Dada B.	10-November	Oladoja Olaolu	22-November
Olagunju Nurudeen	10-November	Adesokan Mutairu A.	23-November
Ajala Akeem O.	10-November	Adeyanju Segun O.	23-November
Bolarinde Folake A.	10-November	Ele Andrew Chidi	23-November
Akinwande O.O.	11-November	Adeogun Muiwa A.	23-November
Sorinolu O. E.	11-November	Adegoke Funke	23-November
Fabowale Folasayo	11-November	Taiwo Nnenna	24-November
Joshua Paul N.	11-November	Ojua Eunice O.	25-November
Iseoluwa Samuel	11-November	Omitade Oluwatoyin	25-November
Adeyemo Solomon	11-November	Abdulahi Usman M.	25-November
Akintoroye Oladunni	12-November	Mohammed Shaib	25-November
Bolarinwa Felix	12-November	Oloruntomi Isaac A.	25-November
Ugwuoke Joseph C.	13-November	Aikpokpodion P.A.	26-November
Adeyemi O. R.	14-November	Mapayi Elizabeth F.	26-November
Fakeye Joke	14-November	Akele Oni O.	26-November
Adeniyi Dele O.	15-November	Samuel Abraham I.	26-November
Ogiugo Phillip I.	15-November	Babatunde Maria O.	27-November
Ogolowa Faith E.	15-November	Oluwadare Sarah E.	28-November
Akinola Christianah	16-November	Okeniyi Temitope S.	28-November
Yahaya Mufuliat O.	16-November	Nwajei Maureen N.	28-November
Lawal Kazeem	17-November	Akinbola Temilorun	28-November
Okunade A.F.	18-November	Famuyiwa S. B.	29-November
Ganiyu Ibrahim	18-November	Abiade Suleiman	29-November
Ani Cyril	18-November	Adeyemi Adedeji	31-November
Ibiremo Omolade B.	19-November		
Oyewale Samson	19-November		

