



# ICAR-CTCRI Newsletter



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## FORTHCOMING EVENTS

- The 51<sup>st</sup> Institute Research Council (IRC) meeting is scheduled to be held during 05-09 May 2025.
- The Annual Group Meeting of AICRP on Tuber Crops will be held at SKLTGHU, Rajendranagar, Hyderabad during 19-20 May 2025.



**Dr. G. Byju**  
Director

## निदेशक की कलम से

बड़ी प्रसन्नता के साथ, मैं जनवरी-मार्च 2025 तिमाही के लिए आईसीएआर-सीटीसीआरआई न्यूजलेटर प्रस्तुत कर रहा हूँ। इस तिमाही में, हमने टीएसपी और एनईएच कार्यक्रमों के तहत गैर-पारंपरिक क्षेत्रों, विशेष रूप से अरुणाचल प्रदेश और नागालैंड जैसे पूर्वोत्तर राज्यों में कंद फसलों को लोकप्रिय बनाने में मजबूत हस्तक्षेप किया है। इन पहलों के पूरक के रूप में, बीज ग्राम कार्यक्रम मजबूती से आगे बढ़ रहे हैं, तथा गुणवत्तापूर्ण रोपण सामग्री में आत्मनिर्भरता को समर्थन दे रहे हैं। संस्थान की दसवीं अनुसंधान सलाहकार समिति की पहली बैठक 10-11 मार्च 2025 के दौरान आयोजित की गई। कंद फसलों में मशीनीकरण पर एक राष्ट्रीय विचार-मंथन कार्यशाला आयोजित की गई, जिसका उद्देश्य वर्तमान स्थिति का आकलन करना, हितधारकों की चुनौतियों का समाधान करना और मशीनीकरण को बढ़ावा देने के लिए एक रणनीतिक दृष्टिकोण तैयार करना था। इस अवधि के दौरान आयोजित कुछ अन्य प्रमुख कार्यक्रम हैं - कंद फसल उद्यमिता पर हितधारकों की बैठक तथा केरल वन विभाग के सहयोग से ट्राइबल कनेक्ट कार्यक्रम का शुभारंभ। दो प्रौद्योगिकियों- जिनमें 12 मूल्य-संवर्धित खाद्य उत्पादों का पैकेज और स्मार्ट खेती के लिए ई-क्रॉप डिवाइस शामिल थी- का व्यावसायीकरण किया गया तथा दो नई मशीनरी को लाइसेंस दिया गया, जो प्रौद्योगिकी हस्तांतरण और किसान सशक्तिकरण के प्रति हमारी सतत प्रतिबद्धता को दर्शाता है। जैसे-जैसे हम आगे बढ़ रहे हैं, आईसीएआर-सीटीसीआरआई पूरे भारत में कृषक समुदायों के लिए बेहतर आजीविका, पोषण और स्थिरता सुनिश्चित करने के लिए अनुसंधान, नवाचार और आउटरीच को एकीकृत करके कंद फसल क्षेत्र को बदलने के लिए प्रतिबद्ध है।

## From the Director

With great pleasure, I present the ICAR-CTCRI Newsletter for the quarter January-March 2025. In this quarter, the Institute has made strong interventions in popularising tuber crops in non-traditional areas, particularly, in North Eastern states of Arunachal Pradesh and Nagaland, under the TSP and NEH programmes. Complementing these initiatives, the Seed Village Programmes are progressing strongly, supporting self-reliance in quality planting materials. The 1<sup>st</sup> meeting of the X<sup>th</sup> Research Advisory Committee of the Institute was held during 10-11 March 2025. A National Brainstorming Workshop on Mechanization in Tuber Crops was conducted to assess the current status, address stakeholders' challenges, and create a strategic vision for promoting mechanization. A Stakeholders Meet on Tuber Crops Entrepreneurship and the launch of Tribal Connect programme in collaboration with Kerala Forest Department are some of the other major events held during this period. Two technologies which included the e-Crop IoT device for smart farming and a package comprising 12 value-added food products, were commercialized and two new machinery were licensed, demonstrating our ongoing commitment to technology transfer and farmer empowerment. As we move forward, ICAR-CTCRI remains committed to transforming the tuber crop sector by integrating research, innovation, and outreach to ensure improved livelihoods, nutrition, and sustainability for farming community across India.

G. Byju

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## Research Highlights

### Induction of flowering in *Amorphophallus peoniifolius* cv. Karunaikizhangu using GA<sub>3</sub> treatment

Vismaya, M., Asha Devi, A., Shirley Raichal Anil and Sunilkumar, K.

*Amorphophallus peoniifolius*, commonly known as elephant foot yam is an important upcoming crop due to its high productivity, nutritional qualities and medicinal properties. It exists as two botanical varieties mainly, the cultivated *A. peoniifolius* var. *campanulatus* and the wild *A. peoniifolius* var. *peoniifolius*. Two important morphotypes exist in this crop – the common elephant foot yam, which is characterised by a single big corm having few insignificant side cormels and the second type, where the cormels are significantly bigger in comparison to the corm and the cormels are the commercial commodity. This morphotype is known as cv. *Karunaikizhangu* and is usually cultivated in the state of Tamil Nadu for its cultural and medicinal importance and recently in some parts of Kerala. Due to the non-flowering nature of this cv. the taxonomic position of this morphotype could not be clearly understood. Though earlier molecular, isozyme and morphological studies showed it to be an intermediate between the wild and the cultivated, due to its non-flowering nature, a clear picture could not be understood. With this background, a study was initiated with GA<sub>3</sub> (100-300 ppm) to initiate flowering in this cultivar. It was observed that GA<sub>3</sub> concentrations of 100 (20%) and 200 (40%) ppm were successful in induction of flowering after 3 and 2 months, respectively in one accession, ADV/2024-1. Initial studies showed that the flower resembled the cultivated as well as the wild type flowers. The main difference noted was that the male flowers failed to dehisce, female flower zone was lesser than the male flower zone and the presence of staminodes. Further studies are planned to fix the taxonomic position of this important cultivar by including supporting molecular and further pollen studies.



Tubers of karunaikizhangu

Flower of cv. karunaikizhangu

Inflorescence structure of cv. karunaikizhangu

### Sectorial chimera in sweet potato

Shirly Raichal Anil

Two sectorial chimera formed due to spontaneous mutation was observed in the hybrid population of sweet potato which may have ornamental value.

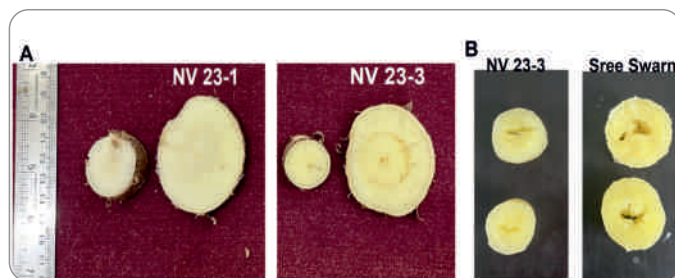


Sectorial chimera in sweet potato

### A breeding line with higher beta carotene content in tubers is identified in cassava

Sujatha, T.P., Sheela, M.N., Vinod Kumar, K., Anju, V., Neethu, R., Jyothi, A.N. and Abhilash, P.V.

Beta carotene content was estimated from freshly harvested tubers of two breeding lines NV 23-1 and NV 23-3 at 5 months after planting (MAP). The breeding line with yellow tubers NV 23-3 had higher beta carotene in the tubers (292.3  $\mu\text{g } 100 \text{ g}^{-1}$  or 485.22 IU) comparable to beta carotene content in tubers of Sree Swarna (332.8  $\mu\text{g } 100 \text{ g}^{-1}$  or 552.45 IU), while NV 23-1, a line with white tubers had 212.35  $\mu\text{g } 100 \text{ g}^{-1}$  or 352.5 IU and Vellayani Hraswa with white tubers had only 144.25  $\mu\text{g } 100 \text{ g}^{-1}$  or 239.45 IU beta carotenoids in tubers at 5 months after planting. But the tubers of NV23-3 were of hard-to-cook quality, although the yellow colour intensified after cooking.



(A) Cross sections of raw tuber of breeding lines NV23-1 and NV 23-3 at 8 MAP showing yellow colouration in tubers of NV23-3 and

(B) Cross sections of cooked tubers of NV 23-3 and Sree Swarna at 5 MAP showing gradation in yellow colour.

## Impact of micronutrient liquid foliar formulation on tuber crops

Prakash, P., Jaganathan, D., Sheela Immanuel and Byju, G.

Economic benefits of adopting the micronutrient liquid foliar formulation for cassava, sweet potato, elephant foot yam, yams and Chinese potato were assessed. The micronutrient formulations were adopted in an area of 712 hectares across Kerala, Tamil Nadu and Andhra Pradesh in 2024. The adoption of micronutrient liquid foliar formulation generated ₹21.23 crores in economic benefits from 2019 to 2024, with ₹5.58 crores generated in 2024. This includes ₹2.78 crores from cassava, ₹0.25 crores from sweet potato, ₹1.45 crores from elephant foot yam, ₹0.77 crores from yams, and ₹0.32 crores from Chinese potato.



Micronutrient foliar formulations

## Extension

### FLDs/OFTs/Field visits

- Ten on-farm demonstrations on improved varieties of tuber crops viz., cassava var., Sree Reksha and elephant foot yam var., Gajendra and technologies viz., SSNM and Organic farming were monitored and collected data from the farmers in Avinashi taluk, Tiruppur district of Tamil Nadu funded by Coconut Development Board, Kochi.



Monitoring and data collection from on farm demonstrations in Avinashi taluk, Tiruppur, Tamil Nadu

- Field visit for monitoring the seed village demonstration plots was conducted by ICAR-CTCRI scientists at Manthiyur village, Kadayam taluk, Tenkasi district and at Pallakal Podhukudi village, Ambasamudram taluk, Tirunelveli district on 03 January 2025.
- Conducted field visit to seed village demonstration plots on taro and farm advisory visits to SSNM experiments at Pallakal Podhukudi village, Ambasamudram taluk, Tirunelveli district and at Kuthapanjan village, Alankulam Taluk, Tenkasi district, Tamil Nadu on 20 January 2025.
- Field visit and monitoring the seed village demonstration plots of cassava was conducted in Periyamayilar, Kani tribe village, Ambasamudram taluk, Tirunelveli district Tamil Nadu on 21 January 2025.
- A meeting with tribal farmers and the Kerala Forest division officers was organized along with field visits under the Tribal Sub Plan programme of AICRPTC in the Marayoor Forest Division, Munnar, Idukki district, Kerala on 30 January 2025.
- A team of scientists visited the sweet potato seed production field at Madakkathara, Thrissur, and cassava seed multiplication plot in Nadathara grama panchayat on 11 February 2025.
- Four on farm trials were conducted in Parassala, Thiruvananthapuram for the evaluation of orange fleshed sweet potato, sweet potato genotypes containing both anthocyanin and beta carotene, evaluation of white fleshed sweet potato and evaluation of sweet potato for high starch content.
- Monitored the seed village demonstration plots of cassava varieties Sree Athulya and Sree Reksha at Chennampatti village, Anthiyoor taluk, Erode district,

and at Naraikinaru, Koonavalampatti villages Namagripettai taluk, Namakkal district, Tamil Nadu on 11 February 2025.

- Focused Group Discussion and farm advisory visits were conducted in Chinese potato growing areas in Kayathar block, Tuticorin, Tamil Nadu on 13 March 2025.
- Under the Rainbow Diet Campaign Odisha project, three nutriseed villages viz., Mukuna, Nuagaon and Sendkap in Keonjhar district, were established for the production of quality planting materials of nutritious crops including tuber crops. Under this scheme, biofortified sweet potato variety SP-95/4 is cultivated in seven acres by 30 nutriseed farmers in the district



Planting of sweet potato in the nutriseed villages, Keonjhar, Odisha

- Under the 'Punarjeevanam' project, jointly implemented by ICAR-CTCRI and Kerala State Kudumbasree Mission, a harvest festival of orange fleshed sweet potato was organized at Attappadi on 25 March 2025. Dr. G. Byju, Director, ICAR-CTCRI inaugurated the harvest festival, which was followed by a formal function at Training Hall, Kerala Institute of Local Administration (KILA), Agali, Palakkad which was attended by 350 farmers.

## Training programmes

### On campus programmes

- A training programme on 'Landraces and varieties of tuber crops, their cultivation and value addition' was conducted at ICAR-CTCRI, Thiruvananthapuram on 12 February 2025 to the custodian farmers of landraces under the Kerala State Biodiversity Board (KSBB) project titled. Collection and Database Creation of Important Named Landraces of Tuber Crops from Southern Districts of Kerala', in which 25 farmers participated.



Participants and resource persons of Training programme

- ICAR-CTCRI organized a one week training programme on 'Soil, plant and water analysis for efficient nutrient management' during 17-21 February 2025.
- Rural Agricultural Work Experience (RAWE) programme for 30 B.Sc. (Agri.) students of College of Agriculture, Vellayani, Thiruvananthapuram was held during 14-18 January 2025 and that for 18 B.Sc. (Agri.) students of College of Agriculture, Vellanikkara, Thrissur was held during 21-25 March 2025 at ICAR-CTCRI, Thiruvananthapuram.



RAWE for CoA, Vellayani



RAWE for CoA, Vellanikkara

Participants of RAWE training at ICAR-CTCRI

- Under the Rainbow Diet Campaign Odisha project, a skill training on 'Production and value addition techniques in tuber crops' was organised at the Techno-Incubation Centre of the Regional Station, Bhubaneswar during 15-16 February 2025. Twenty beneficiaries from Keonjhar district of Odisha were participated. Product demonstrations of sweet potato

nan khatai, cassava and cookies, cassava and chips and jam from biofortified sweet potato, were organised as a part the training programme.



Skill training and product demonstrations for Rainbow diet Campaign project beneficiaries of Keonjhar district, Odisha

### Off campus programmes

- ICAR-CTCRI organised a training program for TSP farmers at Kerala Institute of Local Administration (KILA), Agali, Palakkad on 25 January 2025 and distributed Agri-Inputs viz., elephant foot yam tubers, knapsack sprayers, hoses, spades, *Trichoderma* formulations, pheromone traps with lure, hand slicers of plain, corrugated, stick, sheet and sheet with corrugation, kits of value added products to 40 TSP beneficiaries. The program was inaugurated by Shri. Dinesh, H., IAS, Executive Director, Kudumbasree in the presence of local body members of nearby panchayats. ICAR-CTCRI team conducted hands-on training on seed treatment of elephant foot yam with special emphasis on *Trichoderma* application, pheromone trap for weevil management and micronol application for enhancing yield of sweet potato using battery operated Knapsack sprayers and Hand slicers for chips making. The training was attended by more than 300 tribal farmers.
- ICAR-CTCRI conducted a farmers' training and distribution of farm inputs and implements at Kalanjoor Panchayath on 27 January 2025 under SCSP programme.
- A training programme on 'Improved varieties and

technologies of cassava for enhancing productivity and farm income' was organized on 03 February 2025 at Pachamalai Hills, Tiruchirapalli, Tamil Nadu for the benefit of more than 150 farmers and other stakeholders.



Training programme at Pachamalai Hills, Tiruchirappalli

- Under the Nutriseed village scheme of Rainbow Diet Campaign Odisha project, a pre-season on field training programme on 'Quality planting material production of biofortified sweet potato' was organised to 35 farmers of Nuagaon, Mukuna and Sandkep villages of Sadar block of Keonjhar district during 05-06 February 2025. About two lakh vine cuttings of biofortified sweet potato varieties SP-95/4 and Bhu Krishna were distributed for establishing three nutriseed villages.





Pre-season training for Nutriseed farmers at Keonjhar, Odisha



Training and ethnic tuber crops festival at Wokha district, Nagaland

- ICAR-CTCRI organized a farmers' training on 'Management of important pests infesting tuber crops' at KILA, Thrissur on 11 February 2025 under SCSP programme, for the benefit of 150 farmers.
- A 'Stakeholders Interface cum Training Programme on Tuber crops for Agrifood Systems and Sustainable Income' was organized on 21 February 2025 at Kanubari, Longding, Arunachal Pradesh under the NEH programme. Shri. Gabriel D. Wangsu, Agriculture Minister of Arunachal Pradesh inaugurated the training. Shri. Kunal Yadav IAS, Sub Collector, Kanubari and Dr. G. Byju, Director, ICAR-CTCRI attended the programme. Scientist from ICAR-CTCRI handled classes to 380 farmers.



Training Programme on Tuber crops for Agrifood Systems and Sustainable Income at Arunachal Pradesh

- Under the Tribal Sub Plan programme, ICAR-CTCRI organized a farmers' interaction cum field day on production of quality planting materials of biofortified sweet potato through nutriseed villages at Attappadi during 08-09 March 2025.



Field day at Attappadi under TSP

- ICAR-CTCRI has organized a training programme on 'Novel processing and value addition in tapioca' and an Ethnic Tuber Crops Festival on 24 February 2025 at Tiya Hall, Wokha town, Nagaland under NEH programme, which was befitted by 100 farmers and other stakeholders. Shri. Mhathung Yanthan, Hon'ble MLA and Advisor, Department of Agriculture, Govt. of Nagaland inaugurated the programme. The Special Guest lauded the efforts of ICAR-CTCRI for initiating NEH programme in Wokha district of Nagaland and demanded for sustained efforts for strengthening tuber crops sector in Nagaland. Dr. G. Byju, Director, ICAR-CTCRI, delivered presidential address (online).

- A training programme on 'Improved Varieties and Technologies of Tuber Crops for Enhancing Farm Income' and distribution of inputs was organized at Department of Forests, Mundanthurai Tiger Reserve, Agasthyamala, Tirunelveli, Tamil Nadu on 14 March 2025 for the benefit of 60 Kani tribal farmers and other stakeholders, under Tribal Sub Plan. M. Ilango, Deputy Director of Horticulture, Tirunelveli; N. Mahesh, Forest Range Officer; Pandiyammal, Asst Director of Horticulture, Pappakudi participated along with Dr. G. Byju, Director, and scientists from ICAR-CTCRI. Director and the team also visited settlements of Kani tribe in Mundanthurai, a part of Agasthyamala Biosphere Reserve where tuber crops are their mainstay.



Training programme at Mundanthurai, Tirunelveli, Tamil Nadu

The following off campus training programmes were organized by the Regional Station, Bhubaneswar:

Sl.No.	Title of programme	Date(s)	Panchayat, District, State	No. of beneficiaries
<b>TSP</b>				
1	Value addition in tuber crops	03 January 2025	Dolapada, Khajuripada, Kandhamal district	60
2	Value addition in tuber crops	18 January 2025	Kumbhariput, Bandhugaon, Koraput district	60
3	Tuber crops day	11 March 2025	Kuttama, Mohana Block, Gajapati district	850
4	Value addition in tuber crops	12 March 2025	Karadapondal, Mohana, Gajapati district	60
<b>AICRPTC-SCSP</b>				
5	Value addition in tuber crops	06 February 2025	Kochilanuagaon, tangi, Cuttack district	60
<b>MIDH</b>				
6	Production and value addition in tuber crops	09 February 2025	Saragchhida Gram Panchayat, Kuliana block, Mayurbhanj district	70
7	Production and value addition in tuber crops	18 February 2025	Kanchhinda village, Sorisapal G.P., Bangriposi block, Mayurbhanj district	70
8	Production and value addition in tuber crops	19 February 2025	Karapadi village, Sahada G.P., Bissam cuttack, Rayagada district	70
9	Production and value addition in tuber crops	19 February 2025	T. Dengasargi village, Dumuriguda GP, Kolnara, Rayagada district	70



Training at Kumbhariput, Bandhugaon, Koraput



Training at Karadapondal, Mohana, Gajapati

## Seminars/Workshops/Interface Meetings/Field Diagnostic Visits Organized

### Stakeholders Interface Meeting-cum-Workshop

ICAR-CTCRI has organized a Stakeholders Meet on ‘Leveraging Innovation Ecosystems for Building

Sustainable Tuber Crops Entrepreneurship in India’ on 09 January 2025. Dr. S.D. Shikhamany, Chairman, QRT of ICAR-CTCRI inaugurated the Technology Pavilion and stakeholders meeting. About 146 participants comprising officials from M/s SVM Tapioca Pvt. Ltd., M/s Precision Grow, Reliance Retail Kerala, and Kudumbasree, along

with representatives from Swiggy, VFPC, FPOs, NGOs, SHGs, government departments, farmers and students attended the programme. A Technology Pavilion was set up alongside the event which attracted significant attention of the visitors.



Inauguration of the technology pavilion by Dr.S.D. Shikhamany



QRT team along with Director in the Stakeholders Interface Meeting

### **National Brainstorming Workshop on 'Tuber Crops Mechanization: Status, Challenges, and Strategic Vision for Food Security and Sustainability'**

ICAR-CTCRI organized a National Brainstorming Workshop on 'Tuber Crops Mechanization: Status, Challenges, and Strategic Vision for Food Security and Sustainability' on 21 February 2025 to assess the status of mechanization in tuber crops, discuss the challenges stakeholders face in adopting these technologies, and create a strategic vision for promoting mechanization. The workshop also aimed to identify research priorities and areas for innovation to address the mechanization needs of tuber crops, ultimately promoting food security, sustainability, and improved farmers' livelihoods. The workshop was inaugurated by Prof. V. Palanimuthu, Director, NIFTEM-T, Thanjavur, Tamil Nadu, in presence of Dr. R.K Vishwakarma, Project Coordinator, AICRP on Post Harvest Engineering and Technology, CIPHET, Ludhiana, Punjab, Er. Babu V., State Agricultural Engineer, Govt. of Kerala, Dr. Jayan P.R., Dean (Agrl. Engg.), Kerala Agricultural University, and Dr. T. Makeshkumar, Director-in-charge, ICAR-CTCRI.

During the inaugural address, Dr. V. Palanimuthu urged the need for mission mode projects on mechanization needed for small and marginal tuber crops land holdings. Promotion of custom hiring of machinery by departmental agencies are the only solutions for the widespread availability of machinery which helps in reducing production and processing costs. Dr. M.S. Sajeew, Principal Scientist, welcomed the gatherings and Dr. T. Krishnakumar, Scientist, proposed vote of thanks.



Brainstorming Workshop on Tuber Crops Mechanization



### **Stakeholders' Interface on Tuber Crops Farming for Agrifood Systems**

A 'Stakeholders Interface on Tuber Crops Farming for Agrifood Systems' was organized at Kammappatti, Kayathar block, Thoothukudi, Tamil Nadu in collaboration with ICAR-SCAD Krishi Vigyan Kendra, Vagaikulam, Thoothukudi, Tamil Nadu on 13 March 2025.



Stakeholders Interface at Kammappatti, Kayathar

## Exhibitions

During this period, ICAR-CTCRI participated in the following exhibitions:

- Exhibition organized in connection with the National Seminar on 'Coconut based land use and changing climate', organized by Kerala State Land Use Board on 06 January 2025 at Mascot Hotel, Thiruvananthapuram.
- Exhibition of 'Commercial Tuber Crops Technologies' organised as a part of the Stakeholders Meet on 'Leveraging Innovation Ecosystems for Building Sustainable Tuber Crops Entrepreneurship in India' on 09 January 2025 at ICAR-CTCRI, Thiruvananthapuram.



QRT team visiting the exhibition organised as part of the Stakeholders Meet at ICAR-CTCRI

- Regional Station, ICAR-CTCRI participated in the exhibition organized in connection with the 'International Conference for Food Security and Nutrition' at OUAT, Bhubaneswar, Odisha on 17 January 2025.



Director visiting exhibition stall at OUAT, Bhubaneswar, Odisha



Shri. Kanak Vardhan Singh Deo, Hon'ble Deputy Chief Minister of Odisha visiting CTCRI exhibition stall at CHES, ICAR-IIHR

- Regional Station, ICAR-CTCRI participated in the exhibition organized in connection with the 'National Conference on Seed Chain Management in the Eastern and Northeastern Hill Regions' during 21-22 January 2025 at CHES, ICAR-IIHR, Bhubaneswar.
- Exhibition organized in connection with the training programme on 'Improved varieties and technologies of cassava for enhancing productivity and farm income' on 03 February 2025 at Pachamalai Hills, Tiruchirapalli, Tamil Nadu.
- Exhibition conducted in the 17<sup>th</sup> Agricultural Science Congress 2025 held at G.B. Pant University of Agriculture and Technology (GBPUAT), Pantnagar during 20-22 February 2025.
- Exhibition in connection with 'Stakeholders interface cum training programme on tuber crops for agrifood systems and sustainable income' on 21 February 2025 at Kanubari, Longding, Arunachal Pradesh.
- Exhibition in connection with the 'Seed Festival' during 22-24 February 2025 at Kanjikuzhi Grama Panchayat, Alappuzha, Kerala.
- Exhibition in connection with training programme on 'Novel processing and value addition in tapioca & 'Ethnic tuber crops festival' on 24 February 2025 at Tiya Hall, Wokha town, Nagaland.
- Exhibition in connection with training programme on 'Improved varieties and technologies of tuber crops for enhancing farm income and distribution of critical inputs' on 14 March 2025 at Department of Forests, Mundanthurai, Tirunelveli, Tamil Nadu.

## Exposure visits to ICAR-CTCRI

- One day exposure visit cum training on 'Improved technologies of tuber crops' was organized for the benefit of 342 farmers, 1038 students and 101 officials during this period at ICAR-CTCRI, Sreekariyam, Thiruvananthapuram.
- One day exposure visit cum training on 'Production, Value addition and entrepreneurship development in root and tuber crops' was organized for the benefit of 150 farmers and 74 students during the period at Regional Station, ICAR-CTCRI, Bhubaneswar.



Exposure visits of farmers to RS ICAR-CTCRI

## Mera Gaon Mera Gaurav Programme

- Under the MGMG programme, a group of scientists from ICAR-CTCRI visited farmers' fields under Thiruvallam Krishi Bhavan, Thiruvananthapuram on 30 January 2025 and gave necessary advisories on good agricultural practises.

## Swachh Bharat Abhiyan

- The monthly cleanliness drives under Swachh Bharat Abhiyan was organised in Farm Section, Division of Crop Production and Division of Crop Protection at ICAR-CTCRI campus. The farm area and storage sheds/laboratory of Crop Production and Crop Protection (5500 sq. feet) were cleaned. About 50 kg of green, 40 kg of plastic, 40 kg of wooden, 80 kg of glass, 20 kg of rubber, 45 kg of metal, 50 kg of chemicals and 10 kg of paper wastes were disposed during the three months from institute campus.



Glimpses of Swachh Bharat Abhiyan Programme

## Activities of Agribusiness Incubator

### Certified Agritech Startup Profession programme

The third edition of the ICAR-CTCRI Agri-Business Incubator's 'Certified Agritech Startup Professional Scheme (CagtSP) – Phase 1 EDP' was organised in collaboration with Kerala Agricultural University at the College of Agriculture, KAU, Vellayani during 12-15 March 2025. The programme was inaugurated by Dr. Roy Stephen, Dean, College of Agriculture in the presence of Dr. Allan Thomas, Professor & Head, Agricultural Extension. The programme had a participation of 167 final year B.Sc. (Ag.) students.

### Sensitisation training on technology commercialization for SOA students

One-day sensitisation training on 'Technological innovations, scaling up and technology

commercialization' was organised for 25 PG and Ph.D. Agricultural Extension students of the Institute of Agricultural Sciences, Siksha 'O' Anusandan University, Bhubaneswar at the Techno-Incubation Centre, Regional Station of ICAR-CTCRI, Bhubaneswar on 27 February 2025.

### Incubatee enrolment

- Mr. Govinda Chadra Swain, M/s Ranjeetha Agrifoods Health and Hygiene Private Limited, Patrapada, Bhubaneswar, Odisha was enrolled as an incubatee on 06 March 2025.

## Technology Commercialization/Linkages/ Collaborations

- Two post-harvest machineries (i) Continuous shearing type cassava peeler for small scale processing and (ii) Portable self-propelled cassava sett cutter were licensed to M/s Cliff Innovations, 9, Shri Haree Garden, Kalikkanaicken Palayam, Thondamuthur, Coimbatore, Tamil Nadu on 21 February 2025 (License fee: ₹ 1,18,000).
- The 'e-Crop IoT device for smart farming' technology was licensed to M/s Agripilot Tech Private Limited, Plot no. 33, Borkute Layout, Behind BSNL tower Narendra Layout, Nagpur, Maharashtra through Agrinnovate and the TLA was signed on 28 March 2025 (License fee: ₹ 7.08 lakhs).
- A package of 12 healthy food products from tuber crops were licensed to Kerala State Kudumbasree Mission, Government of Kerala in March 2025 (License fee: ₹ 5.31 lakhs).
- ICAR-CTCRI signed a MoU with Saintgits College of Engineering (Autonomous), Kottayam for academic and research collaboration. Dr. G. Suja, Director in Charge, CTCRI and Dr. Sudha T, Principal, Saintgits College of Engineering exchanged the MoU on 30 January 2025 at ICAR-CTCRI, Thiruvananthapuram.
- ICAR-CTCRI signed a MoU with Karunya Institute of Technology and Sciences (Deemed to be University), Coimbatore for Academic and Research collaboration. Dr. G. Suja, Director in Charge, ICAR-CTCRI and Dr. E.J. James, Pro Vice Chancellor (Research and Collaboration), Karunya University exchanged the MoU in a function on 31 January 2025 at ICAR-CTCRI, Thiruvananthapuram. Dr. Sajjan Kurien, Dean, School of Agricultural Sciences, Karunya University and staff from ICAR-CTCRI had also participated.



Signing of MoU with Saintgits College of Engineering (Autonomous) Kottayam



Signing of MoU with Karunya Institute of Technology and Sciences

- ICAR-CTCRI signed a MoU with Kalinga Institute of Industrial Technology (KIIT) Deemed to be University, Patia, Bhubaneswar, Odisha, for undertaking collaborative work under the DMF - Govt of Odisha sponsored project 'Rainbow Diet Campaign for Odisha: Development and Scaling of Customised Rainbow Diet Food Matrices for Combating Malnutrition Among Children in Keonjhar District, Odisha' on 17 March 2025.



Exchange of MoU with KIIT for Rainbow Diet Campaign

## Capacity building

### Trainings attended by staff

Sl.No.	Name	Particulars of the training	Period
1	Dr. T.P. Sujatha	International virtual workshop on 'Programming in R to analyze biological data' organized by Quaxon Bio & IT Solutions, India	03-08 February 2025
2	Dr. T. Krishnakumar	Faculty development program on 'Emerging Technologies in Postharvest Management & Value addition in Horticultural Commodities', organized by Department of Agriculture & Environmental Sciences, National Institute of Food Technology Entrepreneurship and Management (NIFTEM-K), Sonipat, Haryana	03-08 February 2025
3	Dr. Asha K.I.	Training under Karmayogi Platform for P1 category	04-06 February 2025
4	Dr. C. Visalakshi Chandra	Online training program on 'Analysis tools for association and QTL mapping in fruit crops', organized by ICAR-NRCG	24-28 February 2025
5	Dr. S.N. Rahana	Capacity building training on 'Harnessing Crop wild relatives for breeding future crops', organized by ICAR-NIPB in collaboration with ICAR-NBPGR, Alliance Bioversity International and CIAT at ICAR-NIPB	03-08 March 2025

### Staff participation in scientific events/seminars/symposia/conference/workshop/meetings

Sl.No.	Name	Details	Period
1	Dr. D. Jaganathan	National Seminar on Harnessing Plantation Sector for Sustainable Development Goals at ICAR-CPCRI, Kasaragod, Kerala.	03-05 January 2025
2	Dr. S. Sunitha	Scientific Advisory Committee meeting of KVK, Kumarakom, Kottayam	06 January 2025
3	Dr. D. Jaganathan	Land Use Seminar on 'Coconut based land use and changing climate', organized by Kerala State Land Use Board as part of its Golden Jubilee at Mascot Hotel, Thiruvananthapuram, Kerala.	06 January 2025
4	All scientists	Final meeting of Quinquennial Review Team (QRT VIII), ICAR-CTCRI, Thiruvananthapuram	08-10 January 2025

5	All scientists	Scientist- farmer- industry meet-cum- workshop on leveraging innovation ecosystems for building sustainable tuber crops entrepreneurship in India, ICAR-CTCRI, Thiruvananthapuram	09 January 2025
6	Dr. Hanume Gowda K	7 <sup>th</sup> International Conference on Agriculture for Food Security & Nutrition (Agri Vision-2025) at OUAT, Bhubaneswar.	17-19 January 2025
7	Dr. M.L. Jeeva	National Conference on Emerging Issues and Sustainable Strategies in Plant Health Management: A Global Perspective, organised by Indian Society of Phytopathology at Nagpur, Maharashtra	19-21 January 2025
8	Dr. V.S. Santhosh Mithra Dr. D. Jaganathan	Workshop on 'Media in the context of changing Agriculture' at ICAR-CPCRI, Regional Station, Kayamkulam, Alappuzha, Kerala..	27 January 2025
9	All Scientists	Quarterly Review Meeting of Scientists at ICAR-CTCRI, Thiruvananthapuram, Kerala.	28-29 January 2025
10	Dr. Asha K.I.	Webinar on the topic 'Ethics of Research Publication' organised by NAAS-YUVA	31 January 2025
11	Dr. H. Kesava Kumar	National Symposium on Nematode Management in Agriculture, organised by Syngenta at Goa	03-04 February 2025
12	Dr. S.S. Veena	41 <sup>st</sup> Scientific Advisory Committee Meeting of KVK, ICAR-KVK Mitraniketan, Velland, Thiruvananthapuram	05 February 2025
13	Dr. P.S. Sivakumar	Annual Review Meeting of ICAR-ZTMCs/ITMUs/ABIs in the discipline of Hort. Science Division (Online), New Delhi	13 February 2025
14	Dr. K. Laxminarayana	30 <sup>th</sup> Foundation Day of ICAR-CIWA, Bhubaneswar	17 February 2025
15	Dr. T. Makeshkumar	International Conference on 'One Health Perspectives in Global Plant Protection Research 2025', TNAU, Coimbatore	19-21 February 2025
16	Dr. C. Visalakshi Chandra Dr. J. Suresh Kumar	17 <sup>th</sup> Agricultural Science Congress 2025 held at G.B. Pant University of Agriculture and Technology (GBPUAT), Pantnagar	20-22 February 2025
17	All scientists	National Brainstorming Workshop on 'Tuber Crops Mechanization and Strategic Vision for Food Security and Sustainability' organized by ICAR-CTCRI	21 February 2025
18	Dr. P. Prakash	National conference on 'Current trends in Agricultural Research and extension services: shaping the future of sustainable agriculture and food security' held at RARI, Jaipur, Rajasthan	23-25 February 2025
19	Dr. Susan John K. Dr. S.N. Rahana	'Seed Festival', organized by Agriculture Department, Kerala State at Kanjikuzhi panchayat, Alappuzha district, Kerala	24 February 2025
20	Dr. P.S. Sivakumar Dr. M. Nedunchezhiyan Dr. S.K. Jata	Project Committee meeting of 'Rainbow Diet Campaign Odisha project' held in office of the DDH, Keonjhar, Odisha	25 February 2025
21	Dr. Sheela Immanuel	Scientific advisory committee meeting at KVK, Tirupathisaram, Kanya Kumari, Tamil Nadu.	27 February 2025
22	Dr. H. Kesava Kumar	Orientation workshop on mission Karmayogi, Capacity Building Commission, NASC Complex, New Delhi	27 February 2025
23	Dr. K. Laxminarayana	14 <sup>th</sup> National Symposium on Coastal Agriculture (NSCA 2025): Harnessing Fragile Coastal Ecosystem for Food and Environmental Security held at ICAR-Central Research Institute for Jute and Allied Fibres, Barrackpore, Kolkata, West Bengal	28 February- 03 March 2025
24	Dr. T. Krishnakumar	International Conference on 'Emerging Trends in Agricultural Sciences and Technologies-2.0 (ETAST 2.0) organized by the Department of Agriculture and Agricultural Engineering	06-07 March 2025

25	All staff	International Women's Day 2025 Celebration, ICAR-CTCRI, Thiruvananthapuram	07 March 2025
26	Dr. K. Laxminarayana	Global Conference on 'Innovations to Impact: Gender Transformative Approach for Sustainable Agri-food System' at ICAR-CIWA, Bhubaneswar	08-10 March 2025
27	All Scientists	First Meeting of X <sup>th</sup> RAC at ICAR-CTCRI, Thiruvananthapuram	10-11 March 2025
28	Dr. H. Kesava Kumar	Webinar on 'Patents in Agriculture', National Research Institute for Integrated Pest Management, New Delhi	20 March 2025
29	Dr. H. Kesava Kumar	Webinar on Copyrights, National Research Institute for Integrated Pest Management, New Delhi	21 March 2025
30	Dr. S.S. Veena	Golden Jubilee Celebration of KVK, Mitraniketan, Vellanad, Thiruvananthapuram	24 March 2025
31	Dr.S.N. Rahana Dr. C. Visalakshi Chandra	DUS review meeting, organized by PPVFRA at Plant Authority Bhawan, New Delhi	24-25 March 2025
32	Dr. Sheela Immanuel	Meeting to discuss and finalize domain specific course for hosting on i-GOT Karmayogi platform at ICAR-CTCRI,	26 March 2025
33	Dr. R. Muthuraj	Scientific Advisory Committee Meeting at ICAR-KVK, RVS, Urmelalagian, Tenkasi district Tamil Nadu	26 March 2025

## Publications

### Research papers

- Akhila P. Subhash, Veena, S.S., Makesh Kumar, T. and Anith, K.N. 2025. *Piriformospora indica* and Arbuscular Mycorrhizal Fungus suppress fungal root rot and mosaic diseases of cassava. *Symbiosis*, <https://doi.org/10.1007/s13199-025-01044-3>. (NAAS Score: 8.10).
- Chauhan, V.B.S., Gowda, H.K., Mohapatra, P., Mallick, S.N., Nedunchezhiyan, M., Gangadharan, B., Sahoo, M.R., Pati, K., Arutselvan, R., Shahid, M., Verma, A.K. 2025. Harnessing genotype  $\times$  environment interaction and advanced selection indices for nutritional enhancement in taro (*Colocasia esculenta* (L.) Schott). *Food Chem.*, 473: 142938. <https://doi.org/10.1016/j.foodchem.2025.142938>. (NAAS score: 14.50).
- Gowda, K.H., Amarananjundeswara, H., Fakrudin, B., Vasudeva, K.R., Doddabasappa, B., Kattagoudar, J. 2025. Biochemical characterization, sensory evaluation, instrumental colour profiling and selection of nutritional-rich genotypes through hierarchical cluster analysis, multivariate analysis and multi-trait genotype ideotype-distance index in potato (*Solanum tuberosum* L.). *Potato Research*. <https://doi.org/10.1007/s11540-025-09852-2>. (NAAS score: 8.90).
- Gowda, K.H., Amarananjundeswara, H., Fakrudin, B., Vasudeva, K.R., Kattagoudar, J., Doddabasappa, B. 2025. Genetic variability, heritability and divergence analysis for growth, yield and nutritional quality parameters in potato (*Solanum tuberosum* L.). *International Journal of Advanced Biochemistry Research*, 9(2): 633-647. (NAAS score: 5.29).
- Gowda, K.H., Chauhan, V.B.S., Nedunchezhiyan, M., Pradeepika, C., Senthilkumar, K.M., Chandra, V., Byju, G., Sahoo, M.R., Pati, K. and Arutselvan, R., 2025. Genotype  $\times$  Environment Interaction Analysis and Simultaneous Selection Using AMMI, BLUP, GGE Biplot and MTSI Under Drought Condition in Sweet Potato, *Journal of Soil Science and Plant Nutrition*, 1-18. (NAAS score: 9.90)
- Joseph, R.M., Anil, S.R., Radhika, N., K., Senthilkumar, K.M. and Sreekumar, J. 2025. Role of season, source of explant, media concentration and sterilants in obtaining aseptic cultures for initiating *in vitro* tuberization in sweet potato. *International Journal of Vegetable Science*, 1-13.
- Joseph, R.M., Anil, S.R., Radhika, N.K., Senthilkumar, K.M. and Prakash Krishnan, B.S. 2025. A modified method for isolation of total RNA from leaves of sweet potato (*Ipomoea batatas* (L.) Lam.), *The Journal of Horticultural Science and Biotechnology*, 1-7. (NAAS score: 7.70)
- Natarajan, L., Hemachandran, H., Bhuyan, R. Bordoloi, H., Sivakumar, P.S., and Borpuzari, P. 2025. Cocooning with cassava: Exploring the commercial rearing and seed production potential of *Samia ricini* Donovan on different cassava varieties. *Int. J. Trop. Insect*. (NAAS score: 7.10).
- Sangeetha, B.G., Athira, J., Jayan, K., Makesh Kumar, T., Santhoshkumar, T., Ajesh, G., Harish, E.R. and Rajeshwari, L.S. 2025. Insecticidal activity of leaf proteins isolated from tuberous *I. mauritiana* against sweet potato weevil. *Current Science*, 128(5): 472-478. (NAAS score: 7.1).
- Sangeetha, B.G., Makesh Kumar, T., Santhoshkumar, T., Shirly Raichal Anil, Sumayya M., Sreekumar, J. 2024. Selection and validation of stable reference genes for gene expression analysis in response to sweet potato weevil

infestation (*Cylas formicarius* (Fabricius)) in [*Ipomoea batatas* (L.) Lam] and [*Ipomoea mauritiana* (Jacq.)] *Genetic Resources and Crop Evolution*. <https://doi.org/10.1007/s10722-024-02210-0>. (NAAS score: 7.7).

11. Shirly Raichal Anil., Sheela, M.N., Mohan, C, Jyothi, A.N., Visalakshi Chandra, C., Shanvas, S. and Sreekumar, J. 2025. Assessment of sweet potato germplasm for selection of day-neutral genotypes for tropical India. *Euphytica*, 221: 49. <https://doi.org/10.1007/s10681-025-03496-6>.
12. Sirisha Tadigiri, Kumar, H.K. and Veena, S.S. 2025. Compatibility of *Trichoderma asperellum* (Tr-9) with Carbofuran and cassava - based bio-pesticide, Nanma under *in vitro* conditions. *International Journal of Plant and Soil Science*, 37(1): 564-572. (NAAS score: 5.07).
13. Sivan, S., Senthilkumar, K.M., Sheela, M.N., Arya, K., Revathi, B.S., Abhilash, P.V., Neethu, R.S., Pooja, A. and Prakash Krishnan, B.S. 2025. Genome analysis, identification and expression analysis of nitrogen and potassium responsive genes in cassava. *Acta Physiologiae Plantarum* 47: 1-17 <https://doi.org/10.1007/s11738-025-03783-8>. (NAAS score: 8.60)
14. Suja, G., Sreekumar, J., Sunitha, S. and Jacob John. 2025. Evaluation of short-duration cassava (*Manihot esculenta* Crantz) cropping system for profitability, energy efficiency and soil restoration. *Current Horticulture*, 13(1): 35-41 (NAAS score: 4.62).
15. Suja, G., Sreekumar, J., Sunitha, S. and Jacob John. 2025. Rice-cassava+pulse system for productivity, profitability and energy efficiency. *Annals of Agricultural Research*, 46(1):1-7 (NAAS score: 4.62).
16. Suresh Kumar, J., Sarvanan, R., Ravi, V., Sreekumar, J., Sunitha, S. and Sanket J. More. 2025. Interactive Effects of CO<sub>2</sub> Enrichment and nitrogen levels on leaf gas exchange capacities of sweet potato. *Journal of Agronomy and Crop Science* (NAAS score: 9.7).
17. Susan John, K. and Sheela, M.N. 2025. Influence of NUE genotypes on yield and nutrient use efficiency (NUE) parameters in the selection of K use efficient cassava genotypes. *Journal of Root Crops*, 50(2):8-16.
18. Veena, S.S., Sreekumar, J., Jeeva, M.L., Byju, G., Suja, G., Sengupta, S., Thangamani, C., Padmakshi Thakur, Ashish Narayan, Pradnya S. Gudadhe and Sunitha, S. 2025. Optimizing management interventions against *Sclerotium rolfsii* Sacc. on elephant foot yam (*Amorphophallus paeoniifolius* (Dennst.) Nicolson) in India. *Crop Protection*, 188, 107013. <https://doi.org/10.1016/j.cropro.2024.107013> (NAAS score: 8.50).

## Books

1. Murugesan, P., Sujatha, K., Alex Albert, V., Ananthi, N. and Elamparithi, R. 2025. Economic traits of farmers varieties: unlocking value in selected crops. L Ordine Nuovo

publication, [www.nuovopublication.com](http://www.nuovopublication.com) ISBN: 978-93-90084-72-2, pp.201.

## Book chapters

1. Kiran Kumara, T.M., Raghavendra, K.J., Kandpal, A., Prakash, P., Ravi, S.C and Yeligar, S. 2025. Production, trade and future prospects of Indian vegetables: Current scenario and way forward. In: Abiotic stress in underground vegetables: Response and Mitigation, Lal, M.K., Tiwari, R.K., Kumar, A., Kumar, R. and Singh, B. (Eds.), ISBN: 9780443239618, Elsevier, pp. 303-324.
2. Sheela Immanuel, Jaganathan, D. and Prakash, P. 2025. Gender dynamics and women empowerment in cassava production and value addition: A critical review. In: Women empowerment in agriculture: A pathway towards sustainable development, K. Anjani, B. Pragya, S. Seema, P. Jayashree and Shah, R.A. (Eds.), ICAR-Agriculture Technology Application Research Institute, Zone IV, Patna, Birsa Agricultural University, Ranchi, National Agriculture Development Cooperative Ltd., Baramulla, Dilpreet publishing house, New Delhi, pp. 1-10.

## Technical bulletin

1. Krishnakumar, T., Sajeev, M.S., Pradeepika, C. 2025. Machineries for pre- and post-harvest management of tropical tuber crops. Technical Bulletin No. TB-105/2025, ICAR-Central Tuber Crops Research Institute, Sreekariyam, Thiruvananthapuram, Kerala, India, 29p.
2. Sheela Immanuel, Jaganathan, D., Prakash, P. and Sethuraman Sivakumar, P. 2025. Women friendly technologies in tropical tuber crops, Technical Bulletin No. TB 106/2025, ICAR-Central Tuber Crops Research Institute, Sreekariyam, Thiruvananthapuram, Kerala, 36p.

## Popular articles

1. Gomathi. S., Murugesan, P., Sujatha, K., Alex Albert, V., Venudevan, B. and Elamparithi, R. 2024. Yam bean: Multipurpose underutilized legume, AgriGate e Magazine (ISBN: 978-81-965582-9-1), March 2025.
2. Krishnakumar, T., Sajeev, M.S., Jyothi, A.N., Pradeepika, C. and Velmurugan, M. 2025. Prospects of the co-product (Thippi) of cassava starch and sago factories. *Food & Beverage News*. <https://www.fnbnews.com/Nutrition/prospects-of-the-coproduct-of-cassava-starch-and-sago-factories-80764>.
3. Mohan C., Nandini C., Aakash, A., Senthilkumar, K.M., Sreekumar, J., Mithra, V.S.S., Saravanan, R., Byju, G., Koundinya, A.V.V. and Krishnakumar, T. 2025. High throughput phenotyping to accelerate crop breeding in cassava, *Agritech*, 2(1): 7-9.
4. Nandini, C., Aakash, A., Senthilkumar, K.M., Makeshkumar, T., Byju, G., Koundinya, A.V.V., Krishnakumar, T. and Mohan C. 2025. CMD resistance breeding in cassava and management strategy, *Agritech*, 2(1): 1-3.

5. Pavithra, S.A., Veena, S.S., Karthikeyan, S., Beegam Nazrin, Shilpa, S.U., Divya, S., Nileena, P., Tom Cyriac and Krishnaveni, K. 2025. Diseases of Taro: A Comprehensive Summary. *Agritech*, 1(6): 1-3.
6. Prakash, P., Jaganathan, D., Sheela Immanuel and Byju, G. 2025. Tuber crops in Kerala: Investment opportunities and market demand for sustainability, *Karshakasree*, January 2025, 30-32.
7. Prakash, P., Jaganathan, D., Sheela Immanuel, Muthuraj, R. and Senthil Kumar, K.M. 2025. Chinese potato cultivation in India: Challenges and Strategies, *Agriculture World*, 9(2): 26-31.
8. Sangeetha, B.G., Makeshkumar, T., Harish, E.R. and Arutselvan, R. 2024. Crop wild relatives of (*Ipomoea batatas* (L.) Lam as a source of pest and disease resistance. *Kerala karshakan e-journal*, 12(05): 10-14.
9. Sangeetha, B.G., Makeshkumar, T., Harish, E.R., Pradeepika, C. and Beegum Rizmina, B. 2025. Crop wild relatives of Cassava (*Manihot esculenta* Crantz) as a source of disease and pest resistance. *Agritech*, 1(6): 15-16.
10. Sangeetha, B.G., Makeshkumar, T., Harish, E.R., Pradeepika, C. and Arutselvan, R. 2025. Plant gene editing approaches in crop wild relatives for De Novo domestication. *Biotica Research Today*, 7(3): 81-82.
11. Sheela Immanuel, Jaganathan, D. and Prakash, P. 2025. Climate change and its impact on women in agrifood systems: challenges and strategies, *Agro India*, January 2025, 34-37.
12. Sheela Immanuel, Jaganathan, D., Prakash, P. and Byju, G. 2024. Entrepreneurship opportunities in tuber crops for enhancing income, *Kerala Karshakan e magazine*, February 2025, 30-41.
13. Sunilkumar, K. and Suja, G. 2025. Kizhanguvila krishikku thayaredukkaam. *Kerala Karshakan*. 70(7): 52-55.
14. Susan John, K., Sheela, M.N., Visalakshi Chandra, C. and Satheesan, B. 2024. CTCRI comes up with new cassava varieties with nutrient utilisation potential (Malayalam). *Krishiankanam* 7(5):29-30.
- National Horticulture Fair 2025, ICAR-Indian Institute of Horticultural Research, Bengaluru, pp. 78-93.
3. Jeeva, M.L., Veena, S.S., Susan John, K., Makeshkumar, T., Karthikeyan, S., Divya, S. and Tom Cyriac. 2025. Cassava stem and root rot: An emergent concern for farmers and researchers. In: Souvenir cum Book of abstracts of National Conference on Emerging Issues and Sustainable Strategies in Plant Health Management: A Global Perspective, organized by Indian Society of Phytopathology, Nagpur, Maharashtra, pp. 30.
4. Krishna Radhika, N., Sowmiya, S., Makeshkumar, T., Senthilkumar, K.M., Sujatha, T.P., Jyothi, A.N., 2025. Gene editing through CRISPR Cas9 as a means to develop high amylase starch. In: 37th Kerala Science Congress Compendium and Abstracts Vol.1 p.190.
5. Prakash, P., Jaganathan, D. and Sheela Immanuel. 2025. Impact of improved varieties of cassava in Southern India: Adoption, profitability and policy implications. In: *Book of Abstracts*. National Conference on Current trends in Agricultural Research and extension services: shaping the future of sustainable agriculture and food security, 23-25 February 2025, RARI, Jaipur, India, pp. 40-43.
6. Rahana, S.N., Manju Baby, Sheela, M.N. and Akhila Anil. 2025. Characterizing phenotypic diversity in selected *Dioscorea esculenta* accessions. In: Proceedings of the International Conference on Advanced Innovations and Technological Frontiers in Agricultural Sciences, Agricultural Engineering, Sericulture, Food Technology, Biotechnology, Fisheries Sciences and Veterinary and Animal Sciences, Department of Agricultural Engineering, RVS Technical Campus, Coimbatore, Tamil Nadu, 09-10 January 2025.
7. Visalakshi Chandra, C., Shameer, P.S., Jyothi, A.N., Senthil alias Sankar and Sreekumar, J. 2025. Strategic Genotype Selection in Cassava for Agronomic Traits and Postharvest Physiological Deterioration Tolerance: Harnessing GYT biplots for multi-trait optimization over growing seasons. In: Book of Abstracts, Vol. 1, 17<sup>th</sup> Agricultural Science Congress held at G.B. Pant University of Agriculture and Technology (GBPUAT) Pantnagar, Uttarakhand during 20-22 February 2025, p.229.

#### Conference/Souvenir/Seminar proceedings

1. Amalnath, S., Sheela, M.N., Visalakshi Chandra, C., Abhilash, P.V., Mamatha Mary Mathews. 2025. Characterisation of Cassava: a study on low-starch early-maturing varieties. Paper presented at 37<sup>th</sup> Kerala Science Congress, Kerala Agriculture University, Thrissur, 07-10 February 2025.
2. Byju, G. and Jaganathan, D. 2025. Tropical Tuber Crops for Sustainable Agrifood Systems and Viksit Bharat: Prospects and Way Forward. In: *Souvenir*, Sujatha, S., Hebbar, S.S., Dhananjaya, M.V., Sreenivasa Rao, E., Balakrishna, B., Karunakaran, G., Anuradha, S., Kanupriya, C., Shilpashree, K.G., Loganandhan, N., Prabhakara, M., Sreenivasa, V., Arivalagan, M., Usha Bharathi, T. and Radha, T.K., (Eds.),

#### Technical/Extension Folders/Leaflets

1. Asha, K.I., Asha Devi, A., and Aswin S. Kumar. 2025. Arrowroot Varieties Sree Aadya, Sree Nakshathra, Sree Karti. Technical Folder (TF-13/2025), ICAR-Central Tuber Crops Research Institute, Sreekariyam, Thiruvananthapuram, Kerala.
2. Asha, K.I., Asha Devi, A., and Aswin S. Kumar. 2025. Koova Inangal\_Sree Aadya, Sree Nakshathra, Sree Karti (Malayalam). Technical Folder (TF-14/2025), ICAR-Central Tuber Crops Research Institute, Sreekariyam, Thiruvananthapuram, Kerala.

3. Krishnakumar, T., Jyothi, A.N., Sajeev, M.S., Sakthivel, K. 2025. Detailed manufacturing process of starch/sago. Technical Folder (TF-15/2025), ICAR-Central Tuber Crops Research Institute, Thiruvananthapuram, Kerala.
4. Krishnakumar, T., Sajeev, M.S. Pradeepika. C. 2025. Different types of sago. Technical leaflet (TL-9/2025), ICAR-Central Tuber Crops Research Institute, Thiruvananthapuram, Kerala.
5. Sujatha, K., Murugesan, P., Alex Albert, V. and Ananthi, N. 2025. PPV&FRA, 2001, Awareness Workshop cum Seed Exhibition on Traditional Varieties/Farmers Varieties (English and Tamil), Folder, Department of Seed Science and Technology, Agricultural College and Research Institute, TNAU, Madurai.
6. Susan John, K. and Sunitha, S. 2024. Profile: AICRPTC Thiruvananthapuram Centre, Leaflet, ICAR-CTCRI, Thiruvananthapuram, 4p.

#### Radio talk

- Dr. K. Susan John delivered a radio talk on 'Cultivation of elephant foot yam' in All India Radio, Thiruvananthapuram on 20 February 2025.
- Dr. K. Sunilkumar delivered a talk on 'It's time to cultivate tuber crops' in Njattuvela, Farm Information Bureau (Ananthapuri FM sponsored programme) on 25 February 2025.
- Dr. V.S. Santhosh Mithra was interviewed on the topic 'Climate Change & its Impact on Agriculture' in the 'Vayalum Veedum' Programme of AIR on 28 February 2025.
- Dr. Sheela Immanuel delivered a talk on 'Penkal Payanikum Dhooram', AIR, Thiruvananthapuram on 08 March 2025.
- Dr. K. Susan John delivered a radio talk on 'Importance of phosphorus in plant nutrition' in All India Radio, Thiruvananthapuram on 28 March 2025.

#### Institute Publications

- ICAR-CTCRI Newsletter Volume 41(4), October-December 2024.
- ICAR-CTCRI. 2024. The 3A's of the Division of Crop Improvement... Achievements, Aspirations and Action Plan. ICAR-Central Tuber Crops Research Institute, Sreekariyam, Thiruvananthapuram 695017, Kerala, India, 26p.
- ICAR-CTCRI. 2025. Quarterly Review Meeting of Scientists of Progress Report (October- December 2024) 28-29 January 2025, ICAR-Central Tuber Crops Research Institute, Sreekariyam, Thiruvananthapuram, Kerala, India, 20p.
- ICAR-CTCRI. 2025. First Meeting of X Research Advisory Committee: Action Taken Report and Agenda Notes, 10-11 March 2025, ICAR-Central Tuber Crops Research Institute, Sreekariyam, Thiruvananthapuram, Kerala, India, 89p.

- Susan John, K., Sunitha, S., Visalakshi Chandra, C. and Karthik, P.S. 2025. Progress Report, AICRPTC Thiruvananthapuram Centre, QRT VIII Meeting (2019-2024), ICAR-Central Tuber Crops Research Institute, Thiruvananthapuram, 42p.

#### Major Institute Events

##### Quarterly review meetings of scientists

Quarterly review meetings of scientists were conducted during 28-29 January 2025 under the Chairmanship of Dr. G. Byju, Director, to review the progress achieved during the quarter (October-December 2024) and to prioritize the targets for scientists of Crop Improvement, Crop Production, Crop Protection, Crop Utilization and Extension & Social Sciences.

##### Final report submission of QRT

The Quinquennial Review Team-VIII of IVAR-CTCRI submitted its final report to Dr. Himanshu Pathak, Secretary, DARE & DG, ICAR at New Delhi on 10 February 2025. Dr. S.D. Shikhamany, Chairman, QRT; Dr. G. Byju, Director, ICAR-CTCRI and Dr. G. Suja, Member Secretary, QRT were present.



Submission of the Final Report by the QRT team

## 1st Meeting of X<sup>th</sup> RAC

The 1<sup>st</sup> Meeting of the X<sup>th</sup> Research Advisory Committee was held during 10-11 March 2025 at ICAR-CTCRI, Thiruvananthapuram. The inaugural session of the meeting was held on 10<sup>th</sup> March 2025 at 9.30 am under the chairmanship of Dr. V.A. Parthasarathy, Former Director, ICAR-IISR & Chairman, RAC. The RAC members, Prof. Hari Har Ram, Dr. George V. Thomas, Dr. Jayanta Tarafdar, Dr. K. Muralidharan, Dr. Sudhakar Pandey (virtual mode), Dr. Rashmi Singh (virtual mode) attended the meeting. The meeting started with the welcome address by Dr. G. Byju, Director, ICAR-CTCRI. He presented the activities and achievements (2024-25) of the Institute. This was followed by release of publications and presentation of action taken report of the recommendations of third meeting of IX RAC by the Member Secretary. Followed by inaugural session, technical sessions were held where the megaproject leaders presented the salient achievements of 8 Institutes megaprojects. All the recommendations were discussed and approved by the committee



Glimpses of the first meeting of X<sup>th</sup> RAC

## Other Important Events

### Farmers' Seminar on Tuber Crops

A State Level Farmers' Seminar on Tuber Crops was organized at Purulia, West Bengal under Tribal Subplan on

21 January 2025, as a part of CTCRI's new initiative of area expansion of tuber crops in non-traditional areas. Dr. G. Byju, Director, ICAR-CTCRI inaugurated the seminar. Considering their climate analogous suitability as well as potential for value addition, cassava and sweet potato have been introduced for the first time here and among the tribal farmers. M/s Aati Pual Mushroom Pvt. Ltd.; CEO of ABI of IIT, Kharagpur and other government organizations collaborated with this maiden attempt.



State Level Farmers Seminar on Tuber Crops at Purulia

### Tribal connect programme in collaboration with Kerala Forest Department

A programme on 'Tribal Connect: Transformation of Tribal Food Basket by Strengthening Tuber Crops based Agri-Food System in Marayoor tribal settlements, Idukki' was organized at ICAR-CTCRI in collaboration with Kerala Forest Department on 28 February 2025. The programme was inaugurated by Dr. V. Shalom Gnana Thankom, Professor, Department of Environmental Science, University of Kerala, Thiruvananthapuram. In the inaugural speech, she emphasized the importance of tuber crops under the changing climate. Dr. G. Byju, Director, ICAR-CTCRI, in his presidential address, highlighted the role of tuber crops in improving the livelihood and empowering tribal community. Shri. V.R. Sreekumar, Deputy Range Forest Officer, Marayoor range, explained

about the interventions of forest department in conserving the traditional varieties and improving livelihood of tribal communities along with conserving the forest at Marayoor. During the programme, Dr. G. Byju, Director felicitated Smt. Lekshmi, Oonjamparakudi, Marayoor for her efforts in conserving more than 40 varieties of yams and obtained the first 'Stree Sakthikarana' puraskaram of Women's Commission of Kerala. The inaugural programme was followed by technical session on scientific cultivation of tuber crops and value addition and interaction with scientists. The farmers visited CTCRI farms and Techno-Incubation centre at ICAR-CTCRI.

excelled in various research activities during the year 2024 were felicitated on the occasion. Cultural programmes, painting exhibition, and various competitions such as essay writing, collage-making, and portraying women achievers of India added vibrancy to the celebration.



International Women's Day celebration at ICAR-CTCRI



Inaugural function of Tribal Connect programme



Director felicitating Smt. Lakshmi

## International Women's Day

International Women's Day was celebrated at ICAR-Central Tuber Crops Research Institute with various programmes. Dr. P.S. Sreekala, Director of the Kerala Knowledge Economy Mission, Thiruvananthapuram was the chief guest and delivered the Women's Day speech on the focal theme 'Accelerate Action' for gender equality. She emphasized the role of farm women in many revolutionary movements in Kerala and the importance of financial independence and education in bridging the gender gap. Dr. G. Byju, Director, ICAR-CTCRI presided over the meeting. Progressive tuber crop farmer, Smt. P. Thahira, along with five scientists and five students who

## Director's Visits

- Dr. G. Byju, Director delivered a Plenary Lecture on 'Climate Change and Food Security', in the International Conference for Food Security and Nutrition, jointly organized by OUAT and SARM in Bhubaneswar, Odisha on 17 January 2025.
- Dr. G. Byju, Director, attended 'Tuber Crops Day' at Kutama Village, Mohana, Gajapati, Odisha on 18 January 2025. The event was graced by Shri. Dasarathi Gomango, MLA, Mohana. Dr. T. Jacob, Charman, PREM NGO; S.K. Dash, DDH, Gajapati; Dr. K. Laxminarayana, Dr. M. Nedunchezhiyan, Dr. Kalidas Pati and Shri. K. Lakshmana Rao attended. About 800 tribal farmers participated in the event.



Tuber Crops day celebration at Kutama village, Mohana

- Dr. G. Byju, Director, visited Chologorah and Ayodhya Pahar villages in Purulia, West Bengal where Santal and Munda tribes celebrated their first successful harvest of cassava and sweet potato on 22 January 2025.



Harvest of sweet potato under TSP programme

- Dr. G. Byju, Director participated in the Arunachal Pradesh statehood formation day celebrations and tuber crops exhibition at Longding, Arunachal Pradesh on 20 February 2025. Sri. Jehai Wangsu, Zilla Parishad Member, Longding hoisted the flag. Sri. Bekir Nyorak, Deputy Commissioner, Longding also participated.



Visit of Director to Longding, Arunachal Pradesh

- Dr. G. Byju, Director visited Dr. Himanshu Pathak, Secretary, DARE & DG, ICAR at New Delhi on 24 February 2025 and had discussions about the Institute matters.
- Dr. G. Byju, Director inaugurated the National Science Day celebrations of Kerala Academy of Sciences (KAS) at All Saints College, Thiruvananthapuram and delivered a keynote address on 04 March 2025.

### Infrastructure/Facilities

- Three units of Portable self-propelled cassava sett cutter and a Vacuum-frier were procured by ICAR-CTCRIABI.
- Particle delivery system, Deep Freezer and Electronic balance were procured under the Genome Editing project.

### New Project Sanctioned

- A new project on 'Climate Resilient Agri-food systems: Integrating Biofortified Sweet Potato for Sustainable Livelihoods in Mayurbhanj District of Odisha' was sanctioned at a total budget of ₹ 289.39 lakhs with a contribution of ₹123.21 lakhs from NABARD under CCF-ID Fund (PI: Dr. K. Laxminarayana).

### Distinguished Visitors

#### Headquarters, Thiruvananthapuram, Kerala

- Dr. S.D. Shikhamany, Former Vice Chancellor, Dr. YSR Horticultural University, Andhra Pradesh, Chairman, Quinquennial Review Team.
- Dr. S.K. Pandey, Former Director, ICAR-CPRI, Shimla H.P., Member, QRT.
- Dr. V.S. Korikanthimath, Former Director, ICAR-CCARI, Goa, Member, QRT.
- Dr. Rakesh Pandey, Prof. Emeritus, AcSIR & CSIR, CIMAP, Lucknow, U.P., Member, QRT.
- Dr. Jagan Mohan, DSW & Head, Food Science & Nutrition, NIFTEM, Thanjavur, T.N., Member, QRT.

- Dr. V.A. Parthasarathy, Former Director, ICAR-Indian Institute of Spices Research, Kozhikode, Kerala & Chairman, RAC.
- Prof. Harihar Ram, Former Head, Department of Vegetable Science, GBPAUT, Pant Nagar, Uttarakhand & Member, RAC.
- Dr. George V. Thomas, Former Director, ICAR-CPCRI, Kasaragod & Member, RAC.
- Dr. Jayanta Tarafdar, Former Head, Department of Plant Pathology, BCKV, Kalyani, West Bengal & Member RAC.
- Dr. K. Muralidharan, Principal Scientist (Retd), ICAR-CPCRI, Kasaragod, Kerala & Member RAC.
- Dr. Kaushik Banerjee, Director, ICAR-National Research Centre for Grapes, Pune visited ICAR-CTCRI on 13 January 2025.
- Er. Babu V., State Agricultural Engineer, Govt. of Kerala.
- Dr. Jayan P.R., Dean (Agrl. Engg.), KCAEFT, Kerala Agricultural University, Tavanur, Malappuram, Kerala.
- Dr. P.S. Sreekala, Director of the Kerala Knowledge Economy Mission, Thiruvananthapuram.
- Dr. V. Shalom Gnana Thankom, Professor, Department of Environmental Science, University of Kerala, Thiruvananthapuram.
- Smt. K.R. Ranjini, Assistant Director (OL) and Member Secretary, TOLIC-I visited on 18 January 2023 for the valedictory function of Hindi fortnight celebrations.
- Dr. T. Makeshkumar acted as external member for conducting IARI Ph.D. student (Plant Pathology) qualifying viva voce on 12 March 2025.
- Dr. Susan John K. acted as Chairperson for the session on 'Agriculture and Food Science' at 37<sup>th</sup> Kerala Science Congress held at KAU, Trichur during 07-10 February and evaluated 36 poster presentations and 30 oral presentations. Also delivered a lead lecture on 'Kerala Agriculture: Challenges, opportunities, way forward and researchable issues'.
- Dr. Sheela Immanuel has delivered invited talk for B.Sc.(Ag.) students on Life Skill and Personality Development, Vellayani, Thiruvananthapuram on 03 January 2025.
- Dr. S.S. Veena served as external member for conducting final viva voce of one Ph.D. student, College of Agriculture, Kerala Agricultural University, Vellayani, Thiruvananthapuram on 12 March 2025.
- Dr. S.S. Veena acted as external examiner for one M.Sc. & Ph.D. student of Kerala Agricultural University, Thrissur, Kerala.
- Dr. P. Murugesan chaired the technical session on 'Farmers participatory breeding and conservation of roots and tubers' in the Workshop cum Mela on 'Celebrating the diversity and resilience of root and tubers' (Embracing diversity of root and tubers), Killoguda village, Alluri Seetharama Raju district, Andhra Pradesh on 30 January 2025.
- Dr. P. Murugesan evaluated research papers under the Agriculture and Food science theme of 37<sup>th</sup> Kerala Science Congress held during 07-10 February 2025 at KAU, Vellanikkara, Thrissur.
- Dr. P. Murugesan served as Adjunct faculty nominated by Vice Chancellor, TNAU for the academic year 2024-25 to faculties and PG scholars of Directorate of Seed Centre.
- Dr. P. Murugesan chaired a session on the registration of farmers' varieties of horticultural and tuber crops and as a coordinator, organized the PPVFRA-sponsored two-day workshop cum seed exhibition on traditional/farmers' varieties held at Agriculture College and Research Institute (TNAU), Madurai during 27-28 March 2025 and delivered a lecture to farmer.
- As subject expert, Dr. Asha K.I. conducted the Pre-Submission Viva of Ph. D. Student at the Department of Botany, University of Kerala, Thiruvananthapuram on 17 January 2025.
- Dr. V.S. Santhosh Mithra was invited as 'Distinguished speaker' for INIZIARO 2025, the flagship event of the Entrepreneurship Cell, College of Agriculture, Vellayani,

### Honours, Awards and Recognitions

- Dr. T. Makeshkumar delivered a lead lecture on 'Application of CRISPR/Cas genome editing tools in plant pathology: Disease diagnosis and management perspectives' and chaired a session on 'Conventional and biotechnological approaches in plant resistance to pests and diseases' in the International Conference on One health perspectives in global plant protection research 2025, organised by TNAU, Coimbatore during 19-21 February 2025.
- Dr. T. Makeshkumar attended the Board of Studies meeting of ICAR-IARI-IIHR, Bengaluru hub on 25 March 2025.
- Dr. T. Makeshkumar acted as external examiner for pre-submission presentation of one Ph. D. student of Rajiv Gandhi Centre for Biotechnology, Thiruvananthapuram on 18 March 2025.

Thiruvananthapuram on 22 February 2025 and delivered a talk to the participants.

- Dr. V.S. Santhosh Mithra delivered an invited talk on 'AI in Sustainable Agriculture' in the 'Colloquium on translational AI and Engineering Solutions for Society', organized by Government Engineering College, Barton Hill, Thiruvananthapuram on 21 March 2025.
- Dr. P.S. Sivakumar delivered an online invited talk 'Research Questions, types of research, Objectives, Hypothesis, Concept and Construct' at the ICAR Sponsored Short Course on 'Advances in Extension Research and Evaluation Studies' organised by NAARM, Hyderabad on 30 January 2025.
- Dr. P.S. Sivakumar acted as External Examiner for adjudication of Ph.D (Ag.) Agricultural Extension thesis of two students at College of Agriculture, Kerala Agricultural University, Vellayani, Thiruvananthapuram in January 2025 and one student in February 2025.
- Dr P.S. Sivakumar delivered two invited talks at the ICAR-sponsored short course on Advanced Research Methods in Behavioural Sciences for the scientists of State Agricultural Universities organised by the Central Training Institute, Kerala Agricultural University, Vellanikkara on 18 February 2025.
- Dr. P.S. Sivakumar delivered an online invited talk at the Winter School on 'Contemporary Agripreneurship Ventures for Empowerment of Rural Youth in the North East Hill Region' organized by ICAR Research Complex for NEH region on 25 February 2025.
- Dr P.S. Sivakumar acted as a panelist in the 'Agro-Industrial Conclave: Agricultural Innovation and Technology Commercialization through Bridging Academia-Industry Collaboration' organized by the College of Agriculture, Kerala Agricultural University, Vellayani on 17 March 2025.
- Dr P.S. Sivakumar delivered an invited talk at the 'National Young Professionals Development Program on New Competencies, Career Opportunities and Research Priorities in Agricultural Extension', organized at MANAGE, Hyderabad on 26 March 2025.
- Dr. P.S. Sivakumar was nominated as the Advisory Committee member of one M.Sc. (Ag.) Agricultural Extension student at College of Agriculture, Kerala Agricultural University, and the Doctoral Committee member of one Ph.D. (Agri-Business Management) student at VIT School of Agricultural Innovations and Advanced Learning, Vellore, Tamil Nadu.
- Dr. P.S. Sivakumar acted as External Examiner for setting question paper for M.Sc. (Ag.) extension Course 'EXT-502: Applied Behaviour Change (2+1)' for the End Term
- 1 Semester Examination 2024-25 conducted in March 2025.
- Dr. D. Jaganathan acted as a Panelist in the Land Use Seminar on Coconut based land use and changing climate on 06 January 2025 at Mascot Hotel, Thiruvananthapuram, Kerala.
- Dr. D. Jagannathan acted as convenor for the session on 'Role of print media in digital era- Status, Challenges and Strategies' in the Workshop on 'Media in the context of changing Agriculture' on 27 January 2025 at ICAR-CPCRI, Regional Station, Kayamkulam, Alappuzha, Kerala.
- Dr. D. Jaganathan acted as External Examiner for adjudication of M.Sc., (Ag.) thesis of one student each at College of Agriculture, Vellanikkara, Thrissur and Vellayani, Thiruvananthapuram in January 2025 and one one student of College of Agriculture, Vellayani, Thiruvananthapuram in February 2025.
- Dr. H. Kesava Kumar served as an evaluator for Project proposal entitled 'Standardization and validation of native isolates of entomopathogenic nematodes (EPNs) against pod borer in chickpea and their popularization among farmers of Southern Rajasthan' under RKVY scheme on 03 January 2025.
- Dr. T. Krishnakumar was awarded the best oral presentation award for the paper titled 'Development and performance evaluation of a tractor operated Chinese potato harvester' in the International Conference on Emerging trends in Agricultural Sciences and Technologies-2.0 (ETAST 2.0) organized by the Department of Agriculture and Agriculture Engineering during 06-07 March 2025, by Kalasalingam Academy of Research and Education, Virudhunagar, Tamil Nadu.
- Dr. C. Visalakshi Chandra acted as reviewer/evaluator for the research papers under the Agriculture and Food Science theme of 37<sup>th</sup> Kerala Science Congress held during 07-10 February 2025 at Kerala Agricultural University, Vellanikkara, Thrissur.
- Dr. P. Prakash received the Best Oral Presentation Award and the STAR Young Scientist Award in the National conference on Current trends in Agricultural Research and extension services: shaping the future of sustainable agriculture and food security held at RARI, Jaipur held during 23-25 February 2025.
- Dr. Rahana, S.N. received the Scientist Excellence Award 2025 in the International Conference -AGRIINNOVA 2025 held on 10 January 2025 at Department of Agricultural Engineering, RVS Technical Campus, Coimbatore, Tamil Nadu.

## ICAR-CTCRI in Media

Sl.No.	Date	News Title	Name of Newspaper/ Magazine/e-paper
1	22.01.2025	Women farmer empowerment workshop focuses on advanced agricultural technology	Avenue mail
2	23.01.2025	ICAR- CTCRI Director conducted workshop for woman farmers at Jamshedpur	
3	23.01.2025	Many farmers from East Simhbhoom participate in state level women farmer empowerment workshop	New Ispat mail
4	23.01.2025	Farmers of East Simhbhoom took pride in state level women empowerment workshop	Utkal mail
5	23.01.2025	With the efforts of DeenBandhu Trust, many farmers from East Simhbhoom participated in the state level women farmer empowerment workshop	News Dhamaka
6	24.01.2025	Many farmers from East Simhbhoom participated in the state level women farmer empowerment workshop of Deenbandhu trust	Kolyanchal Samwad
7	24.01.2025	Dr. G. Byju gave the gift of new technology to the farmers in the new year	Uditwani
8	24.01.2025	Dr. G. Byju, Director, ICAR-CTCRI, Government of India, gave the gift of new technology to the tribal farmers of Jharkhand in the new year	JCR News
9	24.01.2025	Dr. G. Byju, Director, ICAR-CTCRI, Government of India, gave the gift of new technology to the tribal farmers of Jharkhand in the new year	Chamkta Aaina
10	24.01.2025	Tribal farmers should do farming with new technology: Dr.G Byju	Dainik Bhaskar
11	24.01.2025	Tribal farmers should do farming with new technology: Dr. G Byju	Rashtra Samwad
12	24.01.2025	ICAR gave new technical gift to tribal farmers of Jharkhand	The Photon News
13	29.01.2025	Kizhanguvilakalvitharanamcheythu	Desabhimani
14	29.01.2025	Punarjeevanampadhatiyilmadhuramkoythu Attappadi	Deepika
15	29.01.2025	Karshakarkkupariseelanam	Malayala Manorama
16	29.01.2025	ICAR Kendra Kizanguvargavilagaveshanakendrathintenethruthvathilnadathiyakarshaka pariseelanampanchayath president T.V. Pushpavalliudghadanamcheythu	Malayala Manorama
17	29.01.2025	Tribal farmers to mark tubers, roots fest today	Deccan Chronicle Visakhapatnam Edition
18	06.02.2025	Namakkal farmers undergo training at NRCB	Hindu, Tiruchi edition
19	22.02.2025	Minister Wangsu stresses on sustainable farming	Arunachal Front daily
20	22.02.2025	State to get Agri-Horti policy 'soon': Wangsu	Echo of Arunachal daily
21	25.02.2025	Yanthan urges farmers to adopt modern method	Nagaland post, Dimapur
22	22.02.2025	Nagaland: MLA yanthan emphasises to improve value chain of Tapioca	The Morung Express
23	26.02.2025	Wokha: MLA yanthan highlights economic potential of tapioca	Mokokchung times
24	28.02.2025	Kizhanguvila Shastriyakrishireethipariseelanam	Desabhimani
25	09.03.2025	Tuber crops institute launches tribal connect drive in Idukki	The Hindu, Thiruvananthapuram
26	17.03.2025	Kanitribals exposed to high yielding tuber varieties	The Hindu, Tirunelveli
27	26.03.2025	Attappaadiyilsampushdeekarichamadurakizhangintevilaveduppu	Janayugam
28	26.03.2025	Attappadiyilvilanjuruchiyeerummadurakizhangu	Desabhimani





## *Tuber Crops for Food, Health, Wealth and Prosperity*

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