

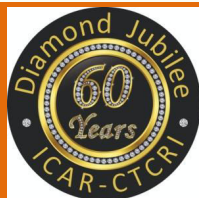
Sl. No	Name	Main skill	Other skills
23	Shri. Rejin D.T.	Formulation of zone-specific secondary- and micronutrient-inclusive customized fertilizer formulation for tropical tuber crops across India	Maintenance of dairy unit Demonstration and validation of crop production technologies in large number of on-farm locations across different states
24	Shri. Shinil T. M.	Comprehensive management of field plot from layout preparation to harvesting	
25	Shri. Keshab Paikaray	Maintenance of germplasm of tropical tuber crops and crop museum	
<b>Technician</b>			
26	Shri. Manikantan Nair T.	Agricultural field operations	
27	Smt. Sneha S.S.	Handling of ICT applications Experience in 'Adobe - Dream Viewer' Software for website maintenance	Handling mini drone and image data acquisition using drones from fields Assisting in mobile application (Android) development Handling visual software for application development
28	Shri. Chandran K.	Pollination of sweet potato	
29	Smt. Nijamol R.	Biochemical and nutritional characterization of tropical tuber crops	Starch characterization and handling of different analytical equipments
30	Shri. Sreenath Vijay	Identification and troubleshooting of networking and computer related issues	Certified drone pilot
31	Smt. Rini Alocious	Field layout, sampling, data recording and instrumentation for soil quality and crop physiology studies	Tabulation, statistical analysis of data and preparation of graphs

### Technical Folder

## One Scientist One Product (OSOP) and One Technical One Skill (OTOS) of ICAR-CTCRI during 2023

April 2023

Edited by  
Senthilkumar K. M.  
Sujatha Kumari N.  
Madhu A.



Published by  
Dr. G. Byju  
Director

भाकृअनुप- केन्द्रीय कन्द फसल अनुसंधान संस्थान  
श्रीकार्यम, तिरुवनन्तपुरम 695 017, केरल, भारत  
ICAR- Central Tuber Crops Research Institute  
Sreekariyam, Thiruvananthapuram 695017, Kerala, India  
Tel. No. : 91 (471)-2598551 to 2598554, E-mail: director.ctcri@icar.gov.in  
Website: <https://www.ctcri.org>



## One Scientist One Product (OSOP) and One Technical One Skill (OTOS) of ICAR-CTCRI during 2023



### OSOP

Sl. No.	Name	Product/Technology/Output
<b>Headquarters, Thiruvananthapuram</b>		
<b>Division of Crop Improvement</b>		
1	Dr. Murugesan P.	Seed coat colour and size variation and their influence on seed quality and genetic vigour of yam bean ( <i>Pachyrhizus erosus</i> ) cultivars
2	Dr. Sheela M.N.	CMD resistant drought tolerant variety with high nutrition use efficiency (Sree Kaveri)
3	Dr. Asha K.I.	Identification of a promising line in arrowroot
4	Dr. Mohan C.	Ten hybrid lines with CMD resistance
5	Dr. Asha Devi A.	A tannia variety suitable for cultivation in Kerala state
6	Dr. Shirly Raichal Anil	One sweet potato variety with both anthocyanin and $\beta$ -carotene
7	Dr. Bharathi L.K.	Methodology for hybridization between wild and cultivated sweet potato
8	Dr. Krishna Radhika N.	A CRISPR Cas9 construct for silencing <i>gbss</i> gene in cassava
9	Dr. Sujatha T.P.	Identification of genes responsible for nutrient homeostasis in Cassava
10	Dr. Visalakshi Chandra C.	Identification of 5 potential cassava breeding lines with high yield, CMD resistance and PPD tolerance for advanced yield trials
11	Dr. Senthilkumar K.M.	Identification and characterization of abiotic stress responsive genes in cassava
<b>Division of Crop Production</b>		
12	Dr. Suja G.	Organic package for cassava-groundnut system
13	Dr. Susan John K.	Integrated package for boron management in tropical tuber crops
14	Dr. Sunitha S.	Water saving techniques in upland taro
15	Dr. Sunil Kumar K.	Protocol for production of protray plants of yams
16	Dr. Ramesh V.	Technology for production of near neutral zeolite
17	Dr. Muthuraj R.	Standardization of growth regulator for growth and yield enhancement in cassava
18	Dr. Saravanan R.	Identification of physiological traits for drought tolerance and climate resilience in cassava and sweet potato
19	Dr. Suresh Kumar J.	Integrated weed management package for taro
<b>Division of Crop Protection</b>		
20	Dr. Jeeva M.L.	Endophyte with biocontrol efficacy and growth promotion
21	Dr. Jayaprakas C.A.	Third generation extraction plant for bioactive molecules from cassava
22	Dr. Veena S.S.	Management of leaf rot in elephant foot yam
23	Dr. Makesh Kumar T.	DAS ELISA kit for <i>Dasheen mosaic virus</i>
24	Dr. Harish E.R.	Behavioural and physiological responses of whitefly to <i>Cassava mosaic virus</i> infection in different cassava genotypes
25	Dr. Kesava Kumar H.	Entomopathogenic nematode formulations for pest management
26	Dr. Sangeetha B.G.	Plant proteins from <i>Ipomoea mauritiana</i> related to insecticidal activity against sweet potato weevil

Sl. No.	Name	Product/Technology/Output
<b>Section of Crop Utilization</b>		
27	Dr. Jyothi A.N.	Cassava starch phosphate carbamate hydrogel suitable for water remediation and controlled therapeutics delivery systems
28	Dr. Sajeev M.S.	Cassava- millet based rice analogues
29	Dr. Pradeepika Chintha	Functional foods (anthocyanin and $\beta$ -carotene rich foods) from coloured sweet potato and millet based food products
30	Dr. Krishnakumar T.	Continuous type cassava peeler for small scale processing
<b>Section of Extension and Social Sciences</b>		
31	Dr. Sreekumar J.	R based software for statistical data analysis in agricultural research
32	Dr. Sheela Immanuel	Extension methodology to study women empowerment status in tuber crops
33	Dr. Santhosh Mithra V. S.	e-Crop based smart fertigation system
34	Dr. Sethuraman Sivakumar P.	Nutriseed Villages Extension Model - A special type of grassroots seed production system of biofortified crops including sweet potato
35	Dr. Jaganathan D.	ITKs and farmers innovations in tropical tuber crops: Documentation and Validation
36	Dr. Prakash P.	Methodologies for impact assessment of tuber crops
<b>Regional Station, Bhubaneswar</b>		
37	Dr. Laxminarayana K.	INM strategies in greater yam
38	Dr. Nedunchezhiyan M.	Drip irrigation and fertigation management in greater yam
39	Dr. Kalidas Pati	Two taro varieties (Sree Telia and Sree Hira)
40	Dr. Vijay Bahadur Singh Chauhan	Development of <i>in-vitro</i> regeneration protocol for sweet potato variety Bhu Krishna
41	Shri. Hanume Gowda K.	Morphological, bio-chemical and molecular characterization of sweet potato germplasm
42	Dr. Arutselvan R.	Development of a cost-effective mass production protocol for <i>Trichoderma</i> using organic substrates

## OTOS

Sl. No	Name	Main skill	Other skills
<b>Chief Technical Officer</b>			
1	Smt. Sujatha Kumari N.	Project monitoring and evaluation	
2	Dr. Rajeswari L.S.	Chemical analytical skills; field experiment: plot preparation, planting and maintenance of tuber crop varieties. Regular pest management practices.	Preparation of bioactive principles of <i>Nanma</i> , <i>Menma</i> and <i>Shreya</i>
3	Shri. Madhu A.	Structured networking and management	Fibreoptic networking Network troubleshooting Bandwidth management Server administration System maintenance and hardware troubleshooting
4	Shri. Kuriakose M.	Maintenance and upkeep of laboratory instruments	

Sl. No	Name	Main skill	Other skills
<b>Assistant Chief Technical Officer</b>			
5	Shri. Sasankan V.R.	Farm management	Quality planting material production
6	Shri. Renjith Kishore B.	Electrical engineering works	Basis Autocad works and minor civil works
7	Shri. Sreekumar V.S.	Photography	
<b>Senior Technical Officer</b>			
8	Shri. Bibhuti Bhusan Das	Maintenance of field experiments, management of farm labourers, laboratory works and sale of farm produce	
<b>Technical Officer</b>			
9	Shri. Ganesh V.	Agricultural field operations	
10	Shri. Mati P. K.	Maintenance of bore wells, electrical fittings and farm equipments	
11	Shri. Manikuttan Nair A.S.	Farm management	Handling of computerized farm indent system
12	Shri. Suresh G.	Lay out and data recording of field experiments	Quality planting material production
13	Dr. Shanavas S.	Biochemical analysis and instrumentation (handling of sophisticated laboratory analytical instruments)	Processing and value addition in tropical tuber crops Entrepreneurship development in tropical tuber crops
14	Dr. Prakash Krishnan B.S.	Molecular works for assessing the genetic variability, fingerprinting and genetic improvement	Tissue culture work of various tuber crops
15	Shri. Sushanta K. Jata	Maintenance of field experiments, multiplication of quality planting materials, preparation of farm labour bills & capacity building programmes	
16	Shri. Shajikumar G.	Driving	
<b>Senior Technical Assistant</b>			
17	Smt. Deepa B.S.	Library management	
18	Shri. Luke Armstrong	Plumbing work skill for both Institute maintenance and research fields	
19	Dr. Karthikeyan S.	Isolation, characterization and evaluation of biocontrol agents	Molecular diagnosis of viral diseases
20	Shri. Sunil K.	Driving	
<b>Technical Assistant</b>			
21	Dr. Shameer P.S.	Data analysis of breeding trials	Computer knowledge: MS word, MS excel
<b>Senior Technician</b>			
22	Shri. Satheesan B.	Field layout, landscaping and novel management techniques of major crops of Kerala	Organized presentation and attractive display of items in exhibitions according to theme and topography Nursery management and poly house management of crops Pollination in cassava, yams and orchids