

**International Symposium on
Tropical Root & Tuber Crops for Nutrition,
Agri-Food Systems, Resilience, Entrepreneurship
and Sustainability (ISTRTC 4 NARES)**

17-21 November 2025

Ooty, Tamil Nadu, Thiruvananthapuram, Kerala, India



Indian Society for Root Crops

International Society for Tropical Root Crops

**ICAR-Central Tuber Crops Research Institute
Thiruvananthapuram, Kerala, India**

Program Schedule

ISTRTC 4 NARES 2025

INAUGURAL SESSION

17 November 2025, Time: 10.00AM-12.00PM

Venue: Opus, O by Tamara, Thiruvananthapuram, Kerala

ICAR theme song

- Welcome Address : **Dr. G. Byju**
President, Indian Society for Root Crops &
Director, ICAR-Central Tuber Crops Research Institute
- Presidential Address : **Prof. Lateef O. Sanni**
President, International Society of Tropical Root Crops &
Executive Director, Nigerian Stored Products Research
Institute, Nigeria
- Address by Guests of Honour : **Dr. R. Selvarajan**
Director, ICAR-NRC for Banana, Trichy Tamil Nadu, India
- Hugo Campos**
Deputy Director General, Science & Innovation,
International Potato Center, Lima, Peru
- Prof. Michael Abberton**
Director, IITA West Africa Hub
- Prof. Andrew Westby OBE**
Deputy Vice Chancellor (Res. and Knowledge Exchange)
University of Greenwich, UK
- Dr. Jan W. Low**
World Food Laureate & MD, JWLOW LTD, Nairobi, Kenya
- Inaugural Address : **Dr. Sanjay Kumar Singh**
Deputy Director General (Hort.)
Indian Council of Agricultural Research, India
- Vote of Thanks : **Dr. T. Makeshkumar**
Secretary, Indian Society for Root Crops &
Head, Division of Crop Protection, ICAR-Central Tuber
Crops Research Institute, Kerala, India

National Anthem

High Tea

TECHNICAL SESSIONS

DAY 1 : 17 NOVEMBER 2025

KEYNOTE LECTURES

12.00 - 13.0

OPUS HALL

Keynote Lectures

1. **Transforming tropical tuber crops: Scientific advances, emerging challenges and future directions for India**

G. Byju

Director, ICAR-Central Tuber Crops Research Institute and President, Indian Society for Root Crops, Thiruvananthapuram, Kerala, India

2. **Root and tuber value chain development in Africa: Delivery, partnership and scaling that works**

Lateef O. Sanni

Executive Director, Nigerian Stored Products Research Institute, International Institute of Tropical Agriculture, Nigeria and President, International Society of Tropical Root Crops

LUNCH 13.00 - 14.00

SESSION VII: I S R C - YOUNG SCIENTIST AWARD CONTEST

14.00 - 15.00

OPUS HALL

YSA 01	Transcriptome sequencing and differential expression analysis of early bulking-responsive genes in cassava <u>Senthilkumar K. Muthusamy</u> , M.N. Sheela, Saravanan Raju, J. Sreekumar, T. Makeshkumar and C. Mohan
YSA 02	Genome editing for cassava mosaic disease resistance: A CRISPR/Cas <i>approach</i> <u>K. Divya</u> and T. Makeshkumar
YSA03	Development of coloured flesh sweet potato genotypes to impart nutritional security <u>M. Janaki</u> , P. Sunitha and A. Pavani Priyanka

YSA04	Nutritional synergy of sweet potato puree and vegan/non-vegan milk in the development of functional kulfi <u>C. Pradeepika</u> , Mary Everline, A.S. Sneha, N.T. Adithya, K. Hanume Gowda, T. Krishnakumar and M.S. Sajeev
YSA05	Genotype × environment interaction analysis and simultaneous selection for high yielding stable genotypes using AMMI, WAAS, BLUP, GGE biplot and MTSI under drought condition in sweet potato <u>K. Hanume Gowda</u> , J. Sreekumar, R. Arutselvan, C. Pradeepika, M. Nedunchezhiyan, K. Pati, K. Laxminarayana
YSA 06	Transcriptomics and gene expression study in taro (<i>Colocasia esculenta</i> var. <i>antiquorum</i>) in response to infection of <i>Phytophthora colocasiae</i> <u>R. Poorvasandhya</u> , Subham Dutta, Tarique Ahmad, Souvik Chhandogi and Jayanta Tarafdar
YSA07	Molecular characterization of <i>Xanthosoma</i> species using ISSR markers and species identification using DNA barcoding <u>Himani B. Patel</u> , Kiran P. Suthar, Vishwa Patel, Manas R. Sahoo and Hetal R. Rathod

SESSION I: BIODIVERSITY AND CROP IMPROVEMENT

SUBTHEME: BIODIVERSITY AND GENETIC RESOURCES

15.00 - 17.00

OPUS HALL

Lead Talks

BCIAL1	Germplasm health and phytosanitary strategies RTB seed certification and containment of transboundary diseases <u>P. Lavakumar</u> , O. Oguntade, M.O. Lateef, S.O. Alaohuo, D. Ajamu, E. Diebiru-Ojo, B. Aighewi, M. Balogun, A. Adeyemi, D. Amah, D. Mignouna, L. Sani, J. Legg and M. Abberton
BCIAL2	Beyond the staples: Two decades of research on underutilized root crops in Nigeria - A case study of turmeric, Polynesian arrowroot, Livingstone potato and Hausa potato <u>Adeyemi Olujide Olojed</u> and Chiedozi Ngozi Egesi

Oral Presentations

BCIAO1	Harnessing tuber crop biodiversity and germplasm for climate-smart farming in Manipur A.K. Bijaya Devi, <u>Ng. Piloo</u>, M. Chanchan, K. James Singh and K. Bidyananda
BCIAO2	Genotypic variability studies in cassava for yield attributes, tuber traits, chips quality and postharvest physiological deterioration (PPD) tolerance <u>S. Amalnath</u>, C. Visalakshi Chandra, M.N. Sheela, T. Makesh Kumar, P.S. Shameer, P.V. Abhilash, Pooja Krishnan, M.S. Sajeew and J. Sreekumar
BCIAO3	Integrated genetic improvement of sweet potato (<i>Ipomoea batatas</i> [L.] Lam) through morphological, molecular and phytochemical profiling <u>Kalidas Pati</u>, Biswajit Jena, Avinash Kumar, Alok Kumar Giri, H. Gowda, R. Arutselvan, M. Nedunchezhiyan and K. Laxminarayana
BCIAO4	Exploring phenotypic diversity in greater yam landraces (<i>Dioscorea alata</i> L.) for genetic improvement <u>S.N. Rahana</u>, M.N. Sheela, Akhila Anil, Bhagya Prakash and Akhila P. Subhash
BCIAO5	Morphological diversity of taro (<i>Colocasia esculenta</i> (L.) Schott) accessions from Andaman and Nicobar Islands, India <u>I. Jaisankar</u>, P. Prabhu, B. Augustine Jerard, Abhilash, V. Damodaran, Y. Ramakrishna and H. Kesava Kumar
BCIAO6	Morphological and biochemical characterization and discriminant analysis in elephant foot yam genotype using descriptors <u>Manpreet Kour</u>, Ashish, D.R. Choudhary, Neha Devi, Manish Kumar and Ravinder Singh

Poster Presentations

BCIAP1	Evaluation of cassava accessions with high tuber yield and starch content for industrial expeditions <u>M. Velmurugan</u>, S.R. Venkatachalam, C. Thangamani and C. Indurani
BCIAP2	Genetic divergence and cluster analysis of sweet potato (<i>Ipomoea batatas</i> L.) genotypes Dwipendu Datta, <u>Ashish Narayan</u>, Rama Shankar Singh and Tanweer Alam
BCIAP3	Genetic diversity and trait specific variation in sweet potato germplasm: Insights from morphological and molecular characterization

	<u>C. Visalakshi Chandra</u> , Shirly Raichal Anil, E.R. Harish, S. Amal Raj, S. Amalnath, P.S. Shameer, Pooja Krishnan, Senthil@Sankar, A.N. Jyothi and J. Sreekumar
BCI AP4	Genetic variability and heritability insights into yield and quality traits of sweet potato (<i>Ipomoea batatas</i> L.) germplasm <u>S.J. Imamsaheb</u> , D. Shreedhar, J.B. Gopali and Chandrakant Kamble
BCI AP5	Morphol-physico-biochemical characterization of indigenous greater yam germplasm of Northeast India <u>N. Buragohain</u> , E. Shylla and S.Alam
BCI AP6	Diversity analysis studies in greater yam (<i>Dioscorea alata</i> L.) Jyotika, <u>Manpreet Kour</u> , Ravinder Singh, D.R. Choudhary, Uttam Chand and Manish Kumar
BCI AP7	Exploring genetic diversity in greater yam (<i>Dioscorea alata</i>) germplasm through morphological and biochemical traits <u>I. Jaisankar</u> , P. Prabhu, B. Augustine Jerard, Abhilash, V. Damodaran, Y. Ramakrishna and H. Kesava Kumar
BCI AP8	Genetic variability and selection of promising Chinese potato (<i>Plectranthus rotundifolius</i>) genotypes for yield and quality under coconut garden conditions <u>M. Thangamuniyandi</u> , T. Prabhu, P. Murugesan, J. Rajangam, K. Nageswari, N. Gnanasekaran, S. Suganyakanna, S. Shenbagavalli and K. Senthamizh
BCI AP9	Genotypic variation in seed quality, germination, and vigor of Mexican yam bean (<i>Pachyrhizus erosus</i> L. Urban) – An underutilized minor tuber legume <u>Joseph S. Shervin</u> and P. Murugesan
BCI AP10	Genetic diversity and proximate component analysis of Queensland arrowroot (<i>Canna edulis</i>) - An under-utilised crop germplasm accessions collected from Palani hills, India <u>P. Murugesan</u> , N. Krishna Radhika, B.S. Prakash Krishnan, S. Sowmiya, A.N. Jyothi, H. Kesava Kumar, S. Kalpana and Manas R. Sahoo
BCI AP11	Seed rhizome germination and certain seed quality traits variation in germplasm of Queensland Arrowroot (<i>Canna edulis</i> Ker-Gawl) <u>K.G. Kirankanth</u> , P. Murugesan, R. Nasya Arputha Sahana, N.B. John Kingsly and Joseph S. Shervin
BCI AP12	<i>In vitro</i> conservation of <i>Curcuma angustifolia</i> - A minor tuber crop N. Krishna Radhika, <u>L. Revathy</u> and P. Murugesan

SESSION IV: SECONDARY AGRICULTURE SUBTHEME A: VALUE ADDITION AND PRODUCT DEVELOPMENT 15.00 - 17.00 ONYX HALL
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Lead Talks

SAG AL1	Emerging applications of cassava starch in food and pharma: Insights from a decade of research at ICAR-CTCRI <u>A.N. Jyothi</u>
SAG AL2	Whatever happened to High Quality Cassava Flour? An exploration of the untapped global potential for novel cassava flour products <u>Ben Bennett</u>
SAG AL3	Food safety issues of root and tuber crops in Africa: A systematic review (2020-2025) <u>Patrick Maada Ngegba</u> , Martha S.E. Williams-Ngegba, Prince E. Norman, Isata Kamanda, Alejandro Ortega-Beltran, Lateef O. Sanni, Busie Maziya-Dixon and Alfred G.O. Dixon

Oral Presentations

SAG AO1	Evaluation of the nutritional compositions, anti-nutritional contents, sensory and consumer acceptability of <i>fufu</i> produced from biofortified cassava <u>Martha Shirley Epiphaneia Williams-Ngegba</u> , Nyahabeh Mariama Anthony-Siaffa and Busie Mayiza-Dixon
SAG AO2	Potential of conversion of cassava processing residues to produce value-added bioproducts <u>Andreia Massamby</u> , Su-lin L. Leong, Johanna Blomqvist, Volkmar Passoth, Yashaswini Nagaraj, Bettina Müller, Lucas Tivana, Custódia Macuamule and Mats Sandgren
SAG AO3	Dual-modified cassava starch for low-fat and egg-free emulsion systems <u>Divya Joseph</u> , R. Gowri Nandha and A.N. Jyothi
SAG AO4	Crafting healthier snacks: Enhancing kanda namkeen with sweet potato pulp and

	cassava flour <u>Pradnya S. Gudadhe</u>
SAG AO5	Development of gluten free pasta from yam (<i>Dioscorea alata</i>) based composite flour <u>K.C. Rakshith</u> , M.S. Sajeev, T. Krishnakumar and C. Pradeepika

Poster Presentations

SAG AP1	Variations in micronutrient concentrations and retentions in fufu made from yellow-fleshed cassava as a function of genotype and processing methods <u>Martha Shirley Epiphaneia Williams-Ngegba</u> , Oluseye Olusegun Onabanjo, Nyahabeh Mariama Anthony, Emmanuel Oladeji Alamu, Busie Maziya-Dixon and Emmanuel Babatunde Oguntola
SAG AP2	Design and evaluation of cassava starch-derived mucoadhesive films for intra-oral drug delivery <u>A.N. Jyothi</u> , Manoj Komath, V. Anju and M.S. Sajeev
SAG AP3	Effect of toasting temperature and moisture content of dewatered mash on quality of gari: A participatory trial <u>Miriam Ahunna Ofoeze</u> , Chukwudi Eneast Ogbete and Okoye Benjamin Nnaemeke
SAG AP4	Nutritional and sensory enhancement of Bhujia through the inclusion of boiled sweet potato pulp <u>Pradnya S. Gudadhe</u>
SAG AP5	Processing and value adding orange-fleshed sweet potato and cocoyam for food security and nutrition in Uganda <u>S. Nafuna</u> , J. Okonya, N. Kwikiriza, M. Ameu, B. Yada and N. Oboth
SAG AP6	A functional bread from purple fleshed sweet potato Sarita Biswal, Rasmirekha Padhi, <u>M. Nedunchezhiyan</u> , K. Pati, K.H. Gowda and R. Arutselvan
SAG AP7	Development of sweet potato-based food products: Scope and potential Rasmirekha Padhi, Sarita Biswal, Annabatula Sree Vidya, Sambeet Kumar Parida, <u>M. Nedunchezhiyan</u> , P.S. Sivakumar, K.H. Gowda, S.K. Jata and G. Byju
SAG AP8	Development of lesser yam-based premix powder <u>Sheriful Alam</u> , Lovely Azad, Nayanmoni Buragohain, Manashi Das Purkayastha, Ira Sarma and Tabaruk Hussain

SAG AP9	Techno-functional and sensory characterization of cake from cocoyam-wheat flour blends <u>A.F. Adegoke</u> , F.O. Obayemi, O.O. Adekoyeni, C.I. Omohimi, A.T. Omidiran, O.E. Kajihausa, E.P. John, A.A. Adebawale and L.O. Sanni
SAG AP10	Enhanced nutritional and storage quality of elephant foot yam flour-based ‘Bori’ using lentil and black gram paste <u>Biswajit Karmakar</u> , Payel Maity, D. Kavya and Surajit Mitra

CULTURAL PROGRAM	18.00 - 20.00	OPUS HALL
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DINNER	20.00 - 21.00
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DAY 2: 18 NOVEMBER 2025

KEYNOTE LECTURES	09.00 - 10.00	OPUS HALL
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Keynote Lectures

- 1. Root & Tubers Science and Innovation - towards improving and livelihoods and food security of farmers and city dwellers in India and beyond**

Hugo Campos

Deputy Director General -Science & Innovation, International Potato Center (CIP) -South Asia Regional Office, Pusa Campus, New Delhi, India

- 2. Maximising the contributions of tropical root and tuber crops to meet societal needs**

Prof. Andrew Westby OBE

Deputy Vice Chancellor (Research and Knowledge Exchange), University of Greenwich, Old Royal Naval College, Park Row, London SE10 9LS, United Kingdom

SESSION I: BIODIVERSITY AND CROP IMPROVEMENT

SUBTHEME B: GENETIC IMPROVEMENT AND BREEDING

10.00 - 13.00

OPUS HALL

Lead Talks

BCI BL1	Tropical roots, tubers and bananas: New breeding tools and methods to meet consumer preferences <u>Dominique Dufour</u> , Hugo Campos and Jim Lorenzen
BCI BL2	Breeding cassava and yams for climate resilience, yield and nutritional quality in India <u>M.N. Sheela</u>
BCI BL3	Advancing innovation in RTB breeding: Milestones, lessons learned and next generation strategies <u>H. Mushoriwa</u> , R. Swennen, A. Amele, I. Rabbi and A. Paterne

Oral Presentations

BCI BO1	Current advances in yam breeding innovations: Transforming productivity and value in the African smallholders' context <u>Asrat Amele Asfaw</u> , Paterne A. Agre, Edemodu Alex, Pelemo Olugboyega, Jean M. Mondo, Patrick Adebola, Kwabena Darkwa, Emmanuel Amponsah Adeji, Konan Dibi, Amani Kouakou, Emmanuel Otoo, Alexandre Dansi and Jude Obiediegwu
BCI BO2	Screening of high-yielding cassava genotypes for their resistance to mosaic and brown streak disease for alleviating hunger in the Great Lakes region <u>Mouritala Sikirou</u> , Eric Musungayi, Najimu Adetoro, Dieng Ibnou, Romain Mungangan, Pierre Andre Miafuntila, Mamy Bizunga, Kuhima Mbuta Mwangi, Theophile Tshiamala, Donat Mukendi, Shako Wembonyama, Fortunat Kamb, Tony Bakelana, Adebawale Abdul-Rasa, Adebayo Abass, Zoumana Bamba, Mushoriwa Hapson, Bernard Vanlauwe and John Derrera.
BCI BO3	Genetic studies on mealiness, dry matter, root number and fresh root yield in cassava (<i>Manihot esculenta</i> Crantz) <u>Isata Kamanda</u> , Essie.T. Blay, Isaac. K. Asante, Agyemang Danquah, Beatrice. E. Ifie, Elizabeth. Parkes, Peter Kulakow, Janatu V. Sesay and Abdul. R. Conteh
BCI BO4	Identification of CMD resistance gene in cassava (<i>Manihot esculenta</i> Crantz) using Simple Sequence Repeat (SSR) markers

	<u>C. Mohan</u> , C. Nandini, S. Jayalekshmi, A. Aakash, K.M. Senthilkumar, T. Makeshkumar, J. Sreekumar and A.V.V. Koundinya
BCI BO5	Postharvest physiological deterioration in cassava: Varietal response, genetic variability, genetic parameters, trait associations and transcriptome profiling <u>C. Visalakshi Chandra</u> , K.M. Senthilkumar, A.N. Jyothi, S. Amalnath, P.S. Shameer, Pooja Krishnan, Ambu Vijayan, Senthil Alias Sankar and J. Sreekumar
BCI BO6	Yield performance and stability analysis of cassava genotypes in north region of Mozambique <u>Sofrimento Fenias Matsimbe</u> , Rita V. Manjonda, Constantino E. Cuambe, João Fortunato Luciano, Matoso F. Avijala, Anabela M. Zacarias, Boaventura Isac Jonas Muacha and Guideon João Bucuane
BCI BO7	Evaluating CMD resistance in cassava progenies from crosses between resistant and Thai commercial varieties <u>Paphawe Pleeprom</u> , Pasajee Kongsil, Wannasiri Wannarat, Wanwisa Siriwan, Thanasak Chomsuk and <u>Chalernpol Phumichai</u>
BCI BO8	CIP's potato and sweet potato breeding: Advancing genetic gains, nutrition, and climate resilience to enhance farmer's income and equitable livelihoods <u>Sunil Chaudhari</u> , Moctar Kante, Thiago Mendes, Godwill Makunde, Reuben Ssali, Gabriela Burgos, Hannele Lindqvist-Kreuze and Hugo Campos
BCI BO9	Multi-seasonal evaluation of sweet potato hybrids for yield and carotenoids <u>Shirly Raichal Anil</u> , C. Visalakshi Chandra, A.N. Jyothi, K.K. Gireesh, Reshma Maria Joseph, J. Sreekumar, E.R. Harish and Gruneberg Wolfgang
BCI BO10	Genetic assessment and molecular dissection of mutant and hybrid populations of taro (<i>Colocasia esculenta</i> L. Schott.) owing <i>Phytophthora colocasiae</i> Racib <u>Manas Ranjan Sahoo</u> , Bibhuti Bhusan Sahoo, Yumnam Indrani Devi, Mayengbam Premi Devi, Madhumita Dasgupta, T. Sachirani Devi, Paresh Chandra Kole, Joydip Mandal and N. Nongdom Puren Meetei

Poster Presentations

BCI BP1	A robust AMMI model using the robust singular value decomposition in genotype by environment data <u>Uba Ezenwanyi</u>
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BCI BP2	Genotype-by-environment interaction effects on growth, yield, and disease resistance in cassava (<i>Manihot esculenta</i>) varieties <u>T.C. Onyenali</u> , C. Alex-Okorafor, O.E. Oni, L.C. Jiwuba, J.T. Onyeka and C.N. Egesi
BCI BP3	Investigating the flowering, fruiting, and true seed set dynamics in cassava, and formulating strategies to ensure continuous flower availability for hybridization <u>A.V.V. Koundinya</u> , B.R. Ajeesh, C. Mohan and M.N. Sheela
BCI BP4	Development of cassava open pollinated genotypes for tuber yield, quality and CMD resistance <u>M. Janaki</u> , P. Sunitha, A. Pavani Priyanka and P. Saranya
BCI BP5	Identification of homozygous resistant progenies using CMD associated SNP marker in breeding population of cassava <u>C. Nandini</u> , C.Mohan, A. Aakash, Neethu Jose, P. Prakash Paul, Anupama Venugopal, K.M. Senthilkumar, T. Makesh Kumar, J. Sreekumar and A.V.V.Koundinya
BCI BP6	Deep learning-based computer vision approach for classification of post-harvest physiological deterioration in cassava tubers Krishnendu Asok, C. Visalakshi Chandra and <u>J. Sreekumar</u>
BCI BP7	Transfer of durable CMD resistance gene from BC-wild species to cassava through interspecific hybridization <u>A. Aakash</u> , C. Nandini, S. Amritha, S.S. Shinto, Neethu Jose, P. Prakash Paul, Anupama Venugopal, K.M. Senthilkumar and C. Mohan
BCI BP8	Integrated approach for engineering superior Indonesian cassava <u>Enny Sudarmonowati</u> , N. Sri Hartati, Ahmad Fathoni, Hani Fitriani, Nurhamidar Rahman, Kartika Noerwijati, Siti Kurniawati, Wahyuni, Bernadetta Rina Hastilestari, Alfia Azizi Annur and Sri Koerniati
BCI BP9	Cassava industry characteristics and variety improvement in China <u>Songbi Chen</u> , Cai Jie, Bei Zhang, Feifei An, Xiuqin Luo, Wenli Zhu, Jingjing Xue, Yuan Yao and Kaimian Li
BCI BP10	Tracking viral resistance and root quality haplotypes in Afro-Latino cassava population <u>Siraj Ismail Kayondo</u> , Edward Kanju, Edda Mushi, Egesi Chiedozie, Banda Vishnuvardhan Reddy, Sikirou Mouritala, Hapson Mushoriwa and Ismail Y. Rabbi
BCI BP11	Genetic insights into postharvest physiological deterioration for shelf-life extension in cassava <u>F. Walugembe</u> , Settumba B. Mukasa, Edward Kanju, Gaby Mbanjo, Hapson

	Mushoriwa, Ismail Y. Rabbi, Ephraim Nuwamanya and Siraj Ismail Kayondo
BCI BP12	Screening sweet potato genotypes for improved yield and nutritional profile under drought and irrigated conditions using the MGIDI index <u>O.G. Utoblo</u> , R. Abubakar and O.A.T. Namo
BCI BP13	Morphological measures of earliness in sweet potato <u>Maria Treesa Joyas</u> , Shirley Raichal Anil, K.K. Gireesh and J. Sreekumar
BCI BP14	Inter-character associations and path analysis for yield determinants in sweet potato (<i>Ipomoea batatas</i> L.) germplasm <u>S.J. Imamsaheb</u> , D.Shreedhar, J.B. Gopali and Chandrakant Kamble
BCI BP15	Genetic insights into yield and quality traits of biofortified sweet potato for breeding advancement <u>S.J. Imamsaheb</u> , D.Shreedhar, J.B. Gopali and Chandrakant Kamble
BCI BP16	Phenotypic evaluation of sweet potato accessions based on DUS traits and quality parameters <u>C. Thangamani</u> , C. Indu Rani, S. Kanaka and P. Pavithra
BCI BO17	Advances in white yam (<i>Dioscorea rotundata</i>) improvement for yield, food and quality traits <u>Prince Emmanuel Norman</u> , Asrat Asfaw, Abdul Rahman Conteh and Abdulai Jalloh
BCI BP18	Comparative study of floral and morphological traits in two distinct morphotypes of elephant foot yam (<i>Amorphophallus paeoniifolius</i> Dennst. Nicolson) <u>M. Vismaya</u> , A. Asha Devi, Shirley Raichal Anil and B.S. Prakash Krishnan
BCI BP19	Sree Nakshatra – A high yielding and high starch arrowroot variety released by ICAR-CTCRI <u>K.I. Asha</u> , M.N. Sheela, Padmakshi Thakur, S. Sengupta, Surajit Mitra, C. Thangamani, Imamsaheb Jatth, Bijayadevi, Ngangbam Piloo, Vivek Hegde, A.N. Jyothi and A. Asha Devi
BCI BP20	Effect of gamma irradiation on morphological changes and biological responses in Chinese potato (<i>Plectranthus rotundifolius</i> (Poir) J. K. Mortan) <u>L.K. Bharathi</u> , P. Murugesan, T.P. Sujatha and H. Kesava Kumar

SESSION IV: SECONDARY AGRICULTURE

SUBTHEME B: POST HARVEST MANAGEMENT, PROCESSING AND MACHINERY

10.00-12.00

ONYX HALL

Lead Talks

SAG BL1	Building a circular economy through cassava processing and value addition: Innovative technologies from ICAR-CTCRI <u>M.S. Sajeev</u> , A.N. Jyothi, T. Krishnakumar and C. Pradeepika
SAG BL2	Cassava agroprocessing in Nigeria: From technology to business <u>Emmanuel Okogbenin</u> , Daniel Kyalo Willy, Kehinde Jimoh, Joyce Njuguna, Bernado Ospina, Samuel Ogunleye and Kenneth Obichukwu

Oral Presentations

SAG BO1	Development and performance evaluation of a portable self-propelled cassava sett cutter <u>T. Krishnakumar</u> , M.S. Sajeev and C. Pradeepika
SAG BO2	Influence of six varieties and harvest season on dry matter, starch and cyanide contents in cassava roots cultivated in Mozambique <u>Imaculada E. Jeje-Mangue</u> , Eufrazio Muchanga, Cistovão Petula and Lucas D. Tivana
SAG BO3	Isolation of cellulose fibre from cassava plant biomass and its conversion into paper-based food packaging material <u>Sruthy G. Nair</u> and S. Anandakumar
SAG BO4	Physico-functional and biodegradation studies of cassava flour-banana fibre-based disposable plates <u>V. J. Mary</u> , M.S. Sajeev, A.N. Jyothi, T. Krishnakumar and S.S. Veena
SAG BO5	Aroid wax coating enhances shelf life of tomato by altering physio-chemical properties and gene expression Facundo P. Nicolas, <u>Madhumita Dasgupta</u> , Valeria Messina and Manas Ranjan Sahoo
SAG BO6	Comparative evaluation of rhizome morphology, flour engineering and nutritional properties in diverse arrowroot (<i>Maranta arundinacea L.</i>) genotypes <u>D. Kavya</u> , Surajit Mitra, V. Kaviyaselvan, Jhuma Datta, Biswajit Karmakar and A. Madhan Kumar

Poster Presentations

SAG BP1	Value addition and by-product utilization of tropical tuber crops <u>D. Vara Vinod</u> , K. Mamatha, V. Sivakumar, D.V. Swami and A. Snehalatha Rani
SAG BP2	Evaluation of dry matter, mealiness and starch contents of yellow flesh cassava (<i>Manihot esculenta</i> Crantz) genotypes in Ghana <u>E.O. Adu</u> , P.A. Asare, K.J. Taah, J.Y. Asiamah, G. Amenorpe, D. Mensah-Wonkyi, P. Iluebbey and E.Y. Parkes
SAG BP3	Cassava stem as a second-generation (2G) source of starch: effect of varietal differences on starch properties <u>M.S. Sajeev</u> , A.N. Jyothi, T. Krishnakumar and C. Pradeepika
SAG BP4	Status of mechanization in cassava harvesting: Challenges and opportunities <u>P.N. Donn</u> , T. Krishnakumar and S. Sunitha
SAG BP5	Reimagining cassava: regional strategies for breeding, processing and market integration <u>S.I. Kayondo</u> , E. Kanju, E. Parkes, W. Esuma, E. Mrema, M. Salma, W.V. Woyengo, M. Inamahoro, S.F. Matsimbe, P. Pankomera, V.R. Banda, C.N. Egesi, H. Mushoriwa and I.Y. Rabbi
SAG BP6	Relationship between instrumental texture measurement and sensory properties of sweet potato [<i>Ipomoea batatas</i> (L) Lam] genotypes grown in Mozambique <u>J. Guambe Osvalda</u> , Ndeve, Arsénio, Makunde, Godwill, Moyo, Mukani, Andrade, Maria and D. Tivana Lucas
SAG BP7	Effect of storage period on quality characteristics of orange-fleshed sweet potato flour from root stored in moist sawdust <u>Babarinsa Olumuyiwa Adekanmi</u> and Esumei Priscillia Osaremen
SAG BP8	Taro (<i>Colocasia esculenta</i>): A resilient orphan crop for food and nutritional security <u>Manish Kumar</u> and Manpreet Kour
SAG BP9	Comparative effect of natural and chemical post-harvest treatments on corm rot, nutritional quality and consumer acceptability of elephant foot yam (CO 1) <u>C. Thangamani</u> , C. Indu Rani, B.K. Savitha, S. Sanjana, L. Saranya, A. Saravanel and V. Selvasakthi
SAG BP10	Preliminary molecular docking studies on the neuroprotective property of tuberous root extract of <i>Nervilia plicata</i> (Andrews) Schltr. <u>Navya Patrick</u> and P.V. Anto
SAG	Exploring the nutritional composition and functional properties of starches from

BP11	indigenous ginger varieties in Nigeria <u>Chukwudi Ernest Ogbete</u> , Miriam Ahunna Ofoeze and Sanni Lateef Oladimeji
SAG BP12	Unlocking the nutritional potential of <i>Drynaria quercifolia</i> tuber: A study of processing impact <u>Kalaiselvan Dhanuja</u> and Vellingiri Vadivel

SESSION II: SUSTAINABLE RESOURCE MANAGEMENT INCLUDING SEED SYSTEMS

SUBTHEME A: SEED SYSTEMS

12.00 - 13.00

ONYX HALL

Lead Talks

SRM AL1	Scaling and advocacy of sustainable commercial cassava seed system <u>Godwin Atser</u> , Lateef Sanni, Regina Kapinga, Mercy Diebiru-Ojo, Peter Kulakow, Lava Kumar, James Legg, Adebayo Abass, Temitope Adegoroye and Alfred Dixon
SRM AL2	Making the cassava seed system work for processors: Reflections from the BASICS-II project in Nigeria and scaling opportunities <u>T.M. Adegoroye</u> , E.A. Ameh, D. Omole, P.C. Adikaibe, S. Adeyemo, E.M. Diebiru-Ojo, T.O. Ogwuche, B. Adegbite, A.P. Kulakow and L. Sanni
SRM AL3	Harnessing roots, tubers and banana crops for agrifood resilience in Africa: A systems approach to scalable, sustainable seed value chains <u>D. Amah</u> , M. Balogun, T. Adegoroye, B. Aighewi, W. Rogers, K. Ogero, S. Rajendran, D. Mignouna, M. Diebiru-Ojo, L. Sanni, P.L. Kumar and J. Legg

LUNCH

13.00 - 14.00

SESSION I: BIODIVERSITY AND CROP IMPROVEMENT

SUBTHEME C: BIOTECHNOLOGY AND BIOINFORMATICS

14.00 - 17.00

OPUS HALL

Lead Talks

BCI CL1	Advancing RTB crop improvement in Sub-Saharan Africa through transgenic and genome editing technologies <u>Leena Tripathi</u>
BCI CL2	Advancing tuber crop improvement: Integrative omics and data-driven strategies for precision breeding <u>J. Sreekumar</u> and I. Akhila Anil
BCI CL3	Use of crosscutting biotechnology tools in the genetic improvement of cassava Chiedozi Egesi , Ihuoma Okwuonu, Joseph Onyeka, Ismail Rabbi and Hapson Mushoriwa
BCI CL4	Advancing cassava and sweet potato development in the Caribbean Islands using sequence technology tools <u>Angela T. Alleyne</u>

Oral Presentations

BCI CO1	Molecular marker development for the small granule starch trait in cassava Luz Andrea Gomez-Martínez, Jhon Larry Moreno, Luis Fernando Londono, Nelson Morante, Sandra Milena Salazar, Xiaofei Zhang, Thierry Tran, Jonathan Newby and <u>Winnie Gimode</u>
BCI CO2	Understanding the molecular mechanism of protein and beta-carotenoid metabolism in cassava (<i>Manihot esculenta</i> Crantz) <u>T.P. Sujatha</u> , K. Vinod Kumar, C. Nasreena, M.N. Sheela, P.V. Abhilash, A.N. Jyothi, J. Sreekumar and K. Susan John
BCI CO3	A CRISPR/Cas9 based genome editing approach in cassava for resistant starch <u>N. Krishna Radhika</u> , Leena Tripathi, Jaindra Tripathi, M. Samwel, K. Senthilkumar, S.M. Athira, S. Sowmiya and L. Revathy
BCI CO4	Cassavabase: Transforming cassava breeding with over a decade of data-driven innovation <u>Prasad Peteti</u> , Ukoabasi Ekanem, Peter Kulakow, Mbanjo Edwige Gaby, Elizabeth Parkes, Kayondo Siraj Ismail, Mouritala Sikirou, Lukas A. Mueller, Chiedozi Egesi and Ismail Rabbi
BCI CO5	Accelerating yam improvement through genomic resource integration

	<u>Paterne A. Agre</u> , Asrat Asfaw, Nicholas Allsing and Michael Todd
BCI CO6	Breedbase: Statistical analysis and breeding decision support tools <u>Isaak Yosief Tecle</u> , Titima Tantikanjana, Naama Menda, Adrian Powell, Amber Lockrow, Ben Maza, Prasad Peteti and Lukas Mueller

Poster Presentations

BCI CP1	Isolation of high-quality RNA from tubers of cassava for gene expression studies <u>T.P. Sujatha</u> , K. Vinodkumar and C. Nasreena
BCI CP2	<i>In silico</i> characterization of beta-carotenoid metabolism genes in cassava (<i>Manihot esculenta</i> Crantz) <u>T.P. Sujatha</u> , K. Vinod Kumar and J. Sreekumar
BCI CP3	Targeted editing of feruloyl-CoA 6-hydroxylase gene to enhance Postharvest Physiological Deterioration (PPD) tolerance in cassava <u>K.M. Senthilkumar</u> , Jaindra Tripathi, Samwel Muiruri, N. Krishna Radhika, Lekshmi S. Lal, T. Makeshkumar and Leena Tripathi
BCI CP4	Comparative study of friable embryogenic callus (FEC) production in different cassava (<i>Manihot esculenta</i> Crantz) varieties <u>Athira Sebastian</u> and T. Makeshkumar
BCI CP5	Unraveling the genomic architecture of boiled cassava root texture using multimodel genomic prediction approaches <u>Kelechi Uchendu</u> , Damian Njoku, Ugochukwu Ikeogu and Chiedozie Egesi
BCI CP6	Generation, screening and selection of partial inbred cassava lines using gen selection tool <u>A.S. Nwaogu</u> , C.N. Egesi and J. Onyeka, M.O. Onuh and E.O. Emeribe
BCI CP7	Predictive genomics for lower cyanide cassava: Comparative model analysis Michael Kanaabi, <u>Ismael Siraj Kayondo</u> , Mukasa, B. Settumba, Ephraim, Nuwamanya, Henry Wagaba, Paula Iragaba, Baguma Julius Karubanga, Nicholas Muhumuza, Enoch Wembabazi, Williams Esuma and Robert Kawuki
BCI CP8	Analysis of genetic diversity and construction of fingerprinting in sweet potato based on KASP markers Shizhuo Xiao, Xibin Dai, Zhilin Zhou and <u>Qinghe Cao</u>
BCI CP9	T2-T-level assembly of the <i>Ipomoea pes-caprae</i> genome Yang Liu and <u>Qinghe Cao</u>

BCI CP10	Comprehensive analysis of YABBY gene family in six <i>Ipomoea</i> species and functional characterization of <i>IbYAB2</i> Lukuan Zhao, Shizhuo Xiao, Yiren Su, Jiangong Li, Xibin Dai and <u>Qinghe Cao</u>
BCI CP11	Insight of carotenoid biosynthesis mechanisms in three fresh-consumption sweet potato [<i>Ipomoea batatas</i> (L.) Lam.] cultivars via transcriptomic analyses Lingxiao Zhao, Qinglian Li, Lukuan Zhao, Xibin Dai, Jie Wang, Bingqian Gao, Shizhuo Xiao, An Zhang, Donglan Zhao, Zhilin Zhou and <u>Qinghe Cao</u>
BCI CP12	Transcriptomic analysis of sweet potato leaves unravels the molecular mechanism of photoperiodic tuberization <u>Reshma Maria Joseph</u> , Shirly Raichal Anil, K.M. Senthilkumar, J. Sreekumar and N. Krishna Radhika
BCI CP13	Differentiation of closely related <i>Xanthosoma</i> species using ISSR and SSR markers <u>A. Asha Devi</u> , Himani B. Patel, M. Vismaya, K.I. Asha and B.S. Prakash Krishnan

SESSION II: SUSTAINABLE RESOURCE MANAGEMENT INCLUDING SEED SYSTEM

SUBTHEME A: SEED SYSTEMS

14.00 - 16.00

ONYX HALL

Oral Presentations

SRM AO1	Cassava early-generation seed companies advance sustainable commercial seed systems in Africa <u>Diebiru-Ojo</u> , E.M., Ogwuche, T.O., Olasupo, K.T., Kumar, P.L., Onyenali, T., Anyim, C., Onyeka, J., Legg, J.P., Mtunda, K., Mwakyusa N, Egesi, C.N., Rabbi, I., Kulakow, P.A., Kapinga, R., and Sanni, L.
SRM AO2	Standardization of growth media and performance of nursery raised miniset plants <u>R. Muthuraj</u> , R. Saravanan, G. Suja and G. Byju
SRM AO3	Evaluation of the performance of Association of Cassava Seed Entrepreneurs of Nigeria (ACSEN) towards economic sustainability <u>Godwin Asumugha</u> , Musa Dunga and Mark Tokula Godwin Ndubuisi
SRM AO4	Is the seed system a solution to improving seed quality and yield productivity? A case study from the cassava seed system in Tanzania <u>J.W. Yabeja</u> , L.K.M. Manoko, J. Nickas, M. Malibiche, R. Shirima and J.P. Legg

SRM AO5	Leaf-bud cuttings: A ground-breaking milestone for yam seed systems in West Africa <u>Beatrice Aighewi</u>, D. Aihebhoria, P. Lava Kumar, E. Diebiru-Ojo, Morufat O. Balogun and Djana Mignouna
SRM AO6	Decentralized Seed Multipliers - A successful model for development of sustainable seed system of tropical tuber crops in India <u>K. Sunilkumar</u>, R. Muthuraj, G. Suja and G. Byju
SRM AO7	Decentralized seed quality assurance as a panacea to inefficient seed fields inspection processes: A case study of the licensed seed inspectors' scheme of the National Agricultural Seed Council, Nigeria <u>Osho-Lagunju Bankole</u>, Mewase Tolulope Rebecca, Ishiak Othman Khalid, Abubakar Musa, Onyeka Joseph, Lateef Sanni and Lava Kumar
SRM AO8	A practical, automated tool to estimate national and enterprise seed requirements for vegetatively propagated crops <u>Srinivasulu Rajendran</u>, Sam Namanda, Kwame Ogero, Martin Ogwal, Hadija Mussa, Stella Namazzi, Morufat Balogun, James Legg and Solomon Afuape
SRM AO9	Performance-focused training evaluation for commercial seed entrepreneurs in Nigeria & Ghana <u>B.D. Mignouna</u>, M.A. Adesina, P. Adikaibe, D. Omole, D. Aihebhoria, T. Adegoroye, B. Aighewi, P.L. Kumar; M.O. Balogun, D. Amah and J. Legg
SRM AO10	Building a commercially sustainable seed system for cassava in Sierra Leone through adoption of cutting-edge technologies <u>Jebeh A. Samba-Barka</u>, Diebiru-Ojo Mercy Elohor, Ogwuche ThankGod Oche, Isata Kamanda, Sanni Lateef and Dixon Alfred

Poster Presentations

SRM AP1	The role of Cassava SeedTracker (CST) in fostering formal seed systems in sub-Saharan Africa <u>P. Lava Kumar</u>, B. Ogunya, H. Igna-Igboko, B. Osho-Lagunju, M.T. Rebecca, K. Ishiak, U. Hudu, E.M. Diebiru-Ojo, P. Kulakow, M. Dunga, J. Onyeka, J. Yabeja, J. Legg and L. Sanni
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SRM AP2	An inclusive seed business model for transforming agrifood systems in Tanzania - The case of cassava in Tanzania <u>K. Mtunda</u> , E. Chiedozie, L. Laizer, P. Kulembeka, A. Ng'adoa, H. Masunga, E. Mrema, M. Liani, F. Gwandu, R. Kapinga and H.A. Tufan
SRM AP3	Enhancing quality planting material production of cassava: Decentralised approach through seed villages <u>R. Muthuraj</u> , D. Jaganathan, P. Prakash and G. Byju
SRM AP4	Strategies adopted by cassava seed entrepreneurs in combating climate change in Nigeria <u>M. Mazza</u> , M.H. Tokula, I.N. Nwokocha and D.S. Oaya
SRM AP5	Screening cassava plantlets from semi-autotrophic hydroponic (SAH) under different weather conditions for effective survival rate <u>T.C. Onyenali</u> , C.J. Nwankwo, G.C. Nsofor, O.E. Oni, S.P. Abah, L.C. Jiwuba, I.C. Okwuonu, J.T. Onyeka and C.N. Egesi
SRM AP6	Enhancing planting material production of sweet potato [<i>Ipomoea batatas</i> L. (Lam.)] through nutrient management <u>C. Deepthi</u> and G.J. Shimi
SRM AP7	The PROVIPAK: A simple system for hardening yam (<i>Dioscorea</i> spp.) tissue culture plantlets for generating breeder seed stock <u>M.O. Balogun</u> , A. Ajayi, M. Adefila, J.O. Lasisi, A.P. Fawole, M.A. Adesina, P.L. Kumar, B.A. Aighewi and B.D. Mignouna
SRM AP8	Sustainable resource management through decentralized seed systems: Enhancing potato productivity among smallholder farmers in Kenya <u>Gailyne Muthoni</u>
SRM AP9	Effect of different types of substrates on the rooting and establishment of potato (<i>Solanum tuberosum</i> L.) stem cuttings for rapid seed multiplication <u>Kyenpiya Eunice Deshi</u> , Salome Gyang Tok, Vou Moses Shutt and Paul Amaza
SRM AP10	The role of private sector in gendered seed demand and distribution: A case study of IITA GoSeed and Umudike Seeds <u>Durodola Owoade</u> , Olamide Olaosebikan, Abolore Besllo, Peter Kulakow, Elizabeth Parkes, Rabbi Ismail, Olajide Razak, Tessy Ugo Madu, Elohor Mercy Diebiru-Ojo, Benjamin Okoye, Nnaemeka Esiobu, Joseph Onyeka, Millicent Liani, Adeyeye Jumoke, Steven Cole and Béla Teeken

SESSION II: SUSTAINABLE RESOURCE MANAGEMENT INCLUDING SEED SYSTEM

SUBTHEME B: RESOURCE MANAGEMENT, FARMING SYSTEMS AND SMART FARMING

Lead Talks

SRM BL1	Green solutions for safe and sustainable tuber crop based agri-food systems <u>G. Suja</u> , G. Byju, J. Sreekumar, S.J. Harishma, S.S. Veena, A.N. Jyothi, S. Sunitha, D. Jaganathan, C.S. Sooraj, V.S.S. Mithra and M.N. Sheela
SRM BL2	Problems, prospects and status of cassava cultivation in Tamil Nadu <u>K. Venkatesan</u>
SRM BL3	Vision for adapted crops and soils (VACS): A new initiative for advancing indigenous crops of Africa <u>Ranjana Bhattacharjee</u> , Hapson Mushoriwa and Michael Abberton

POSTER SESSION: SESSION I & II

17.00-18.00

DAY 3

19 NOVEMBER 2025

KEYNOTE LECTURES

09.00 - 10.00

OPUS HALL

Keynote Lectures

1. **Future-proofing root and tuber crops for resilience against biotic and abiotic stress**
Stephan Winter and Samar Sheat

Senior Research Scientist, Leibniz Institute DSMZ-German Collection of Microorganisms and Cell Cultures, Plant Virus Department, Germany

2. Developing effective biofortified orange-fleshed sweet potato value chains through a gender transformative integrated intervention

Jan W. Low, Birhanu Biazin Temesgen, Abdul-Lateef Yakubu and Michael Asante

Managing Director, JWLOW LTD, Nairobi, Kenya

SESSION III: BIOTIC AND ABIOTIC STRESSES

SUBTHEME A: MOLECULAR FRONTIERS IN PLANT STRESS TOLERANCE

10.00 - 13.00

OPUS HALL

Lead Talks

BAS AL1	Cassava viruses in Africa: Keeping a lid on a boiling pot <u>James Legg</u> , Rudolph Shirima and Titus Alicai
BAS AL2	Strategies and achievements to create broad spectrum resistance against major viruses of cassava <u>Samar Sheat</u> and Stephan Winter
BAS AL3	Solving the identity of re-emergent phytosanitary challenges to cassava cultivation in the tropics <u>Wilmer J. Cuellar</u>
BAS AL4	Insights into potato virus Y-host interactions using omics approaches P. Gnanasekaran and <u>Hanu R. Pappu</u>

Oral Presentations

BAS AO1	Genome sequencing and analysis of <i>Trichoderma</i> isolates for sustainable disease management in tropical tuber crops in Odisha <u>R. Arutselvan</u> , K. Hanume Gowda, Kalidas Pati, K. Laxminarayana and M. Nedunchezhiyan
BAS AO2	Differential protein expression reveals defense mechanisms in cassava cultivars against <i>Sri Lankan cassava mosaic virus</i> Nattachai Vannatim, Somruthai Chaowongdee, Srihunsu Malichan, Sittiruk

	Roytrakul, Sawanya Charoenlappanit and <u>Wanwisa Siriwan</u>
BAS AO3	Deciphering the core cassava rhizoplane mycobiome across contrasting agroecosystems against stem and root rot <u>S. Divya</u> , A. Kumar, B. Ambika Manirajan, S.A. Pavithra, K. Krishnaveni, T. Cyriac, S. Karthikeyan, S.S. Veena, T. Makesh Kumar, T.K. Bag and M.L. Jeeva
BAS AO4	LAMP-LFIA-based detection system for rapid diagnosis of <i>Sri Lankan cassava mosaic virus</i> <u>Pravi Vidyadharan</u> , R. Arutselvan and T. Makesh Kumar
BAS AO5	Development of resistance against <i>Sri Lankan cassava mosaic virus</i> (SLCMV) in <i>Nicotiana benthamiana</i> using rep hairpin RNAi constructs <u>Iype Praveen Thomas</u> and T. Makesh Kumar
BAS AO6	Unveiling a novel source of resistance to sweet potato weevil (<i>Cylas formicarius</i> (Fabricius)) in wild tuberous <i>Ipomoea mauritiana</i> Jacq. <u>B.G. Sangeetha</u> , T. Makesh Kumar, E.R. Harish, T. Santhosh Kumar, Shirley Raichal Anil and J. Sreekumar
BAS AO7	Whole genome sequencing of taro endophyte <i>Bacillus pumilus</i> CTCRI PA3: A potential biocontrol agent for the suppression of taro leaf blight disease <u>S.U. Shilpa</u> , M.L. Jeeva, S.S. Veena, P.R. Amrutha and Tom Cyriac

Poster Presentations

BAS AP1	Screening of proteins for African cassava whitefly (<i>Bemisia tabaci</i>) control via oral route <u>Rekha Swamy</u> , Boluwatife Sowunmi, Osnat Malka, Shai Morin, Annet Namuddu, Michael Otim, Nigel Taylor, Sandeep Kumar and Jim Baum
BAS AP2	The transcriptome response of African and South American cassava (<i>Manihot esculenta</i>) to infection by <i>East African Cassava mosaic virus-Uganda</i> <u>Erica Ngwensang</u> , Sophie Bouvaine and <u>M.N. Maruthi</u>
BAS AP3	Diversity and distribution of cassava mosaic disease-associated viruses in cassava production areas <u>Lohitha Bommagani</u> , T. Makesh Kumar and Krishnaveni Kurapati
BAS AP4	Molecular diagnostic tests to strengthen yam seed systems <u>G. Silva</u> , R. Festus, R. Prempeh, M.D. Quain, S.E. Seal
BAS AP5	Examination of the cutinase gene of <i>Colletotrichum gloeosporioides</i> causing yam anthracnose and its potential to degrade microplastics

	<u>Guy J. Gray</u> and Angela T. Alleyne
BAS AP6	Characterization of endogenous pararetroviruses in yam germplasm (<i>Dioscorea</i> spp.) B.O. Osundahunsi, M. Lateef, O. Kolade, B.O. Odu, and <u>P. Lava Kumar</u>
BAS AP7	Identification <i>Fusarium spp.</i> causing dry rot of potato in Plateau State, Nigeria <u>You Moses Shutt</u> , Dorcas Dent Magani, Diana Uwana Affiah and Kyenpiya Eunice Deshi
BAS AP8	Development of bacterial wilt resistant potato using <i>Efr</i> , <i>Jim2</i> and <i>roq1</i> genes <u>Mary N. Mwangi</u> , Agnieszka Witek, Eric Magembe, Steven Runo, Alex Schultink, Jonathan D.G Jones and Marc Ghislain

SESSION II: SUSTAINABLE RESOURCE MANAGEMENT INCLUDING SEED SYSTEM

SUBTHEME B: RESOURCE MANAGEMENT, FARMING SYSTEMS AND SMART FARMING

10.00 - 13.00

ONYX HALL

Oral Presentations

SRM BO1	Sustainable production of tropical tuber crops through systematic need-based soil-plant nutrition approaches <u>K. Susan John</u> , P.S. Anju, S. Chithra, S.U. Shanida Beegum, I.P. Anjana Devi, G. Suja, Irene S. Mani, Sanket J. More, T. Sruthi, Jeena Mathew and Karthika Divakar
SRM BO2	IFFCO and its pioneering role in nano fertiliser revolution <u>Yogendra Kumar</u>
SRM BO3	e-Crop based smart farming for small and marginal farmers <u>V.S. Santhosh Mithra</u> and Aparna Mohan
SRM BO4	Role of tuber crops in food security and livelihood management of Manipur A.K. Bijaya Devi, Ng. Piloo, <u>M. Chanchan</u> , K. James Singh and K. Bidyananda
SRM BO5	Mineral nutrition effects on drought mitigation in cassava under laterite soils <u>V. Ramesh</u> , Saravanan Raju and K. Susan John
SRM BO6	Tuber yield and water productivity of sweet potato (<i>Ipomoea batatas</i>) under

	different irrigation regimes <u>S. Sunitha</u> , J. Suresh Kumar, V. Ramesh and G. Suja
SRM BO7	Harnessing nano-N and nano-K fertilizers to boost agronomic performance in sweet potato Sweta Ranjita Pradhan, <u>C. Thangamani</u> , T. Saraswathi, C. Indu Rani, G. Sridevi, R. Poorniammal and P. Kannan
SRM BO8	Preliminary evaluation of the SPOTCOMS model for simulation of sweet potato growth and development in the southern United States Devotha Mwazembe, <u>Desmond.G. Mortley</u> , V.S. Santhosh Mithra, Raymon Shange, Joseph Quansah, Souleymane Fall, Osagie Idehen and Ramble O. Ankumah
SRM BO9	Soilless sweet potatoes: Unlocking potential in controlled environments <u>J. Suresh Kumar</u> , K. Sunilkumar and C. Pradeepika
SRM BO10	Effect of inorganic, biological and organic sources on soil quality and yield performance of greater yam (<i>Dioscorea alata</i>) <u>K. Laxminarayana</u> , R. Arutselvan, G. Suja, K. Susan John and G. Byju
SRM BO11	Isolation and evaluation of nitrogen-fixing bacteria from white Guinea yam (<i>Dioscorea rotundata</i>) for plant growth promotion <u>Ryo Matsumoto</u> , Moses Eniola, Haruki Ishikawa, Hironobu Shiwachi and Asrat Asfaw
SRM BO12	UAV-based biomass estimation and growth modeling for white Guinea yam using machine learning and Bayesian inference <u>Kohtaro Iseki</u> and Ryo Matsumoto
SRM BO13	Pre-harvest growth regulator applications to enhance yield and storage quality of elephant foot yam corms <u>C. Indu Rani</u> , R. Neelavathai, C. Thangamani and B.K. Savitha
SRM BO14	Unlocking dormancy in elephant foot yam [<i>Amorphophallus paeoniifolius</i> (Dennst.) Nicolson] through organic and inorganic amendments <u>J.C. Aswathy</u> and Sheeba Rebecca Isaac

Poster Presentations

SRM BP1	Tuber crops-based cropping systems for sustainable yield, income and soil health Annabatula Sree Vidya, Sambeet Kumar Parida, Rasmirekha Padhi, <u>M. Nedunchezhiyan</u> , P.S. Sivakumar, K.H. Gowda, S.K. Jata and G. Byju
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SRM BP2	Ecofriendly solutions for higher productivity, profitability and soil health in tuber crop-based cropping systems <u>C.S. Sooraj</u>, D. Jaganathan, G. Suja, S.J. Harishma, J. Sreekumar, G. Byju, S.S. Veena, S. Sunitha, M.N. Sheela and A.N. Jyothi
SRM BP3	Assessment of crop suitability – A micro level plan to augment the productivity Yasmin L. Rasheed and <u>P. Arunjith</u>
SRM BP4	From science to service: IPSR-guided scaling of Rwanda's Smart Nkunganire Fertiliser Recommendation Tool <u>B.T. Mudereri</u>, E. Kihoro, T. Ogunsamni, J. Kayumba, A.R. Cyamweshi, M. Senge, T.R. Rabourn, M. Sartas, T. Ampadu-Boakye, E. Kangethe and S. Uzamushaka
SRM BP5	AI based virtual crops for smart agriculture <u>V. Aparna Mohan</u>, K.P. Sreelekshmi and V.S. Santhosh Mithra
SRM BP6	Integrated farming system model involving tuber crops for food, nutrition and socioeconomic security of tribal farmers of Chhattisgarh <u>Padmakshi Thakur</u>, Vikas Ramteke, Omesh Thakur and Upendra Naik
SRM BP7	Evaluation of some selected cassava varieties with different planting dates in Nigeria <u>M.C. Ogbonnaya</u>, L.C. Jiwuba, P.I. Okocha, J.T. Onyeka and C.N. Egesi
SRM BP8	Effect of different planting densities on tuber yield and planting material production of cassava variety YTP 1 <u>M. Velmurugan</u>, S.R. Venkatachalam, P. Veeramani, P.S. Kavitha, C. Thangamani, C. Indurani, S. Sunitha and G. Byju
SRM BP9	Evaluation of water saving techniques for increased tuber yield in short duration cassava during summer season <u>M. Janaki</u> and A. Pavani Priyanka
SRM BP10	Impact of leaf chlorophyll content on tuber yield of CMD resistant cassava varieties <u>Ajay P. Kumar</u> and S. Sunitha
SRM BP11	Evaluation of natural, organic and integrated crop management in cassava based cropping system <u>S. Devi Sanjeev</u> and G. Suja
SRM BP12	Organic management of cassava-vegetable intercropping systems: Growth, yield and soil health outcomes <u>Sarika Nandan</u> and G. Suja

SRM BP13	Cassava intercropping systems to enhance agricultural productivity and sustainability under the Feed Salone Initiative: A Review <u>K.M. Yila</u>, J.F. Bebeley, A. Mansaray, I. Kamanda, A.R. Conteh and D.K. Ojo
SRM BP14	Performance of sweet potato accessions during the off-season in Tamil Nadu for high yield, quality and profitability <u>P. Pavithra</u>, C. <u>Thangamani</u>, L. Pugalendhi and P. Meenakshi
SRM BP15	Customized fertilization strategies for improved sweet potato yield and nutrient use efficiency <u>Himani B. Patel</u>, C.G. Intwala, Hetal R. Rathod, G.B. Desai and Dixita Prajapati
SRM BP16	Integrated use of silicon with manures on yield attributes of taro (<i>Colocasia esculenta</i> L.) Shikha Swarnkar, <u>Virendra Singh</u>, Vinod Saharan, Shalini Pilania, Hemant Swami, Surbhi Prithiani and Sourabh Jangid
SRM BP17	Organic manures and bio-stimulants as growth enhancers for improving tuber yield in taro (<i>Colocasia esculenta</i> var <i>antiquorum</i> L. Schott) <u>Parnika Ashok Gangurde</u>, Pradnya S. Gudadhe, J.D. Jog, Prajakta B. Bhakare and S.A. Kumawat
SRM BP18	Performance of swamp taro under organic and inorganic management systems <u>Biswajit Das</u>, Bapi Das, Vinay Singh, Kouberi Nath, B.U. Choudhuri, Prithwijit Das, Nabajyoti Saha and Sukanta Das
SRM BP19	Sustainable yield enhancement in taro through natural farming <u>C. Thangamani</u>, C. Indu Rani, S. Kaviyarashi and M. Velmurugan
SRM BP20	Corm yield and quality attributes of elephant foot yam (<i>Amorphophallus paeoniifolius</i>) as influenced by corm size and planting density Ravinder Singh, <u>Dinesh Kumar</u> and Manpreet Kour
SRM BP21	Productivity of minicorm raised elephant foot yams influenced by planting geometry and nutrient doses <u>Sheeba Rebecca Isaac</u> and P. Arunjith
SRM BP22	Effect of high-density planting on yield and economics of elephant foot yam (<i>Amorphophallus paeoniifolius</i>) <u>V. Sivakumar</u>, K. Mamatha, D.V. Swami, P. Lalithakameswari, K. Ravindrakumar and A. Snehalatharani
SRM BP23	Integrated weed management in elephant foot yam (<i>Amorphophallus paeoniifolius</i>) Ravinder Singh, Kshitij Sharma and <u>Manpreet Kour</u>

SRM BP24	Ecological intensification in tuber crops: An option for sustainable production <u>Anitta David</u> and Sheeba Rebecca Isaac
SRM BP25	From legacy trials and open geodata to site-specific, subsidy-compatible potato fertilizer advisory in Rwanda <u>B.T. Mudereri</u> , M. Chernet, A.R. Cyamweshi, J. Kayumba, E. Vandamme, S. Uzamushaka, J.C. Nshimiyimana, C. Kreye, C. Aubert and P. Demo

LUNCH BREAK 13.00 - 14.00

SESSION III: BIOTIC AND ABIOTIC STRESSES

SUBTHEME B: PLANT STRESS MANAGEMENT

14.00 - 17.00

OPUS HALL

Lead Talks

BAS BL1	Impact of viral diseases and whiteflies on cassava production and developing dual-resistant varieties for managing them <u>M.N. Maruthi</u> , Emily A. Masinde, Bernadetta Kimata, Joshua O. Ogendero, Richard M.S. Mulwa and Geoffrey Mkamilo
BAS BL2	Strategies for sustaining plant health in virus affected tropical tuber crops <u>T. Makesh Kumar</u> , M. L. Jeeva and R. Arutselvan
BAS BL3	Taro leaf blight (<i>Phytophthora colocasiae</i>) disease: Identification, molecular mapping and functional dissection of blight resistant genes in taro <u>Jayanta Tarafdar</u> , R. Poorvasandhya, Pushpita Roy, Bratata Mandal and Rupsanatan Mandal

Oral Presentations

BAS BO1	Effective and environmentally safe management of tuber crop pests through CTCRI biopesticides <u>E.R. Harish</u> , C.A. Jayaprakas, L.S. Rajeswari, Jithu U. Krishnan, T. Makesh Kumar and B.G. Sangeetha
BAS BO2	Cassava stem and root rot management: Bridging the gap between research and farmer adoption <u>M.L. Jeeva</u> , S.S. Veena, K. Susan John, Jeena Mathew, T. Makesh Kumar, R.

	Arutselvan, S. Karthikeyan, and S. Divya
BAS BO3	Physiological and yield responses of cassava (<i>Manihot esculenta</i> Crantz) genotypes to drought stress: Field screening and validation <u>Saravanan Raju</u> , Senthilkumar K. Muthusamy and J. Sreekumar
BAS BO4	Physiological and agronomic characterization of drought tolerance in cassava: The case of Sree Kaveri <u>A.V.V. Koundinya</u> , B.R. Ajeesh, A. Nisha, K.M. Senthilkumar, N. Sai Lekshmi, Vivek Hegde and M.N. Sheela
BAS BO5	Identification of resistant and tolerant cassava germplasm to cassava mosaic disease in India through phenotypic and molecular screening <u>Bhaargavi Ravichandran</u> , T.K.S. Latha, T. Makeshkumar, M. Velmurugan and S.R. Venkatachalam
BAS BO6	Characterization of entomopathogenic nematode, <i>Heterorhabditis indica</i> (CTCRIH2) from Thiruvananthapuram, Kerala <u>H. Kesava Kumar</u> , B.G. Sangeetha, M.P. Sreelekshmi, B. Beegum Rizmina and T. Makeshkumar
BAS BO7	Evaluation of three sweet potato (<i>Ipomoea batatas</i> (L.) Lam.) cultivars for drought tolerance in New Zealand <u>Ariel Coolman</u> , Oral O. Daley, Wendy-Ann P. Isaac, Gaius Eudoxie and Ronald R. Roopnarine
BAS BO8	Comparative study on orange, purple and white flesh clones of sweet potato against sweet potato weevil (<i>Cylas formicarius</i>) <u>Ashish Narayan</u> , Dwipendu Datta, Rama Shankar Singh and Tanweer Alam
BAS BO9	Prospective fungal and oomycete disease management strategies for ensuring aroid health and yield <u>S.S. Veena</u> , M.L. Jeeva, R. Arutselvan, A. Asha Devi, V.S. Santhosh Mithra, J. Sreekumar, G. Suja and S. Karthikeyan
BAS BO10	Management of postharvest rot in elephant foot yam (<i>Amorphophallus paeoniifolius</i>) under Telangana conditions <u>V. Suresh</u> , D. Anitha Kumari, Bhagyashali V. Hudge, B.S.K. Nikhil and R. Preetham Goud

Poster Presentations

BAS BP1	Harnessing variability in <i>Trichoderma</i> isolates to enhance bio-control efficacy against fungal pathogens in tropical tuber crops <u>S.S. Veena</u>, Linet K. Joseph, Chithra Vinod, M.L. Jeeva, G. Byju, J. Sreekumar and S. Karthikeyan
BAS BP2	Emerging pests of tropical tuber crops and their management strategies <u>E.R. Harish</u>, T. Makeshkumar, H. Kesava Kumar and B.G. Sangeetha
BAS BP3	Spatio-temporal changes in the African cassava whitefly, <i>Bemisia tabaci</i>, and their microbiome Hajar El Hamss, Hadija M. Ally, Hélène Delatte, Christopher A. Omongo, John Colvin and <u>M.N. Maruthi</u>
BAS BP4	Identifying cassava genotypes resistant to the African cassava whitefly, <i>Bemisia tabaci</i> (Gennadius) Jackie Atim, Andrew Kalyebi, Adriana Bohorquez-Chaux, Luis Augusto Becerra Lopez-Lavalle, Christopher Abu Omongo, John Colvin and <u>M.N. Maruthi</u>
BAS BP5	Standardization of isolation protocol for profiling the cassava rhizoplane microbiome <u>K. Krishnaveni</u>, T. Makeshkumar, A. Kumar, S. Divya, S.A. Pavithra, B. Lohitha, Beegam Nazrin, Tom Cyriac and S.U. Shilpa
BAS BP6	Rapid multiplication of virus free cassava plants by meristem culture <u>S.H. Shafna</u>, Athira Sebastian and T. Makeshkumar
BAS BP7	Suppression of cassava stem and root rot and mosaic diseases by soil inoculation with root-colonizing beneficial endophytic fungi <u>Akhila P. Subhash</u>, K. N. Anith, S. S. Veena and T. Makeshkumar
BAS BP8	Management of mealy bug incidence in cassava <u>M. Velmurugan</u>, S.R. Venkatachalam, S. Jaya Prabhavathi, M. Rajesh, C. Thangamani and C. Indurani
BAS BP9	Mealybugs and mites in cassava: impact and management <u>E.R. Harish</u>, T. Makeshkumar, H. Kesava Kumar and B.G. Sangeetha
BAS BP10	Plant-endophyte interactions and application for salinity stress tolerance in sweet potato <u>Disha Baishnabi</u>, R. Arutselvan, Hanume Gowda, Kalidas Pati, K. Laxminarayana and M. Nedunchezhiyan
BAS BP11	Genotypic variation in physiological and yield responses of sweet potato (<i>Ipomoea batatas</i> L.) to drought stress under field conditions

	<u>Saravanan Raju</u> , Senthilkumar K. Muthusamy and J. Sreekumar
BAS BP12	Protocol refinement for phylloplane microbiome analysis in elephant foot yam <u>S.A. Pavithra</u> , S.S. Veena, Aundy Kumar, K. Krishnaveni, S. Divya, B. Lohitha, Beegam Nazrin, Tom Cyriac, S.U. Shilpa, S. Karthikeyan, M.L. Jeeva, R. Arutselvan and T. Makesh Kumar
BAS BP13	Management of postharvest rot in elephant foot yam (<i>Amorphophallus paeoniifolius</i> (Dennst.) Nicolson) <u>Shubhranshu Sengupta</u> , Hem Chandra Lal, Binay Kumar, Sanyat Misra, Abdul Majid Ansari, Punam Horo and Arun Kumar Tiwary

SESSION V: TRANSFER OF TECHNOLOGY AND COMMERCIALIZATION

SUBTHEME A: SOCIOECONOMIC DEVELOPMENT AND CAPACITY BUILDING

14.00 - 16.00

ONYX HALL

Lead Talks

TOTAL1	Tuber crops-based agri-food systems for sustainable income and livelihoods <u>M. Nedunchezhiyan</u> , K. Pati, K.H. Gowda, R. Arutselvan and S.K. Jata
TOTAL2	Assessment of technical needs of small and medium cassava processing enterprises in the Ruzizi plain, Kinshasa, and Kongo central provinces of DRC <u>Abass Adebayo</u> , Christopher Mutungi, Simon Lukombo, Adeniyi Ogunkoya, Guelord Nsuanda, Pascaline Masheka, Rodrigue Irengue, Emanuel Zigabe, Sikirou Mouritala, Najimu Adetoro and <u>Abdul-Rasaq Adebawale</u>
TOTAL3	Cassava enterprise support: Lessons from world bank Ogun state economic transformation project in Ijebu Zone <u>B. Owotomo</u> , M. Owo-Odunsi, K. Adeleye, Olugbire, B.O. Siwoku, M. Diebiru-Ojo, O.A. Jimoh, O. Ibidunni, J.K. Babalola, O. Adejuwon, T.K. Kehinde, O. Kupoluyi, A. Adegoke, and L.O. Sanni

Oral Presentations

TOT AO1	Mapping of women empowerment in cassava cultivation in Meghalaya state of India <u>Sheela Immanuel</u> , D. Jaganathan, P. Prakash and R. Muthuraj
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TOT AO2	Economic performance and farmer's perception of cassava and elephant foot yam in Andhra Pradesh: Insights for resource specific crop choice <u>P. Prakash</u> , D. Jaganathan, Sheela Immanuel, K. Mamata and M. Janaki
TOT AO3	From farm to plate: Experiences in scaling up biofortified sweet potato in the Northeastern hill India through the Rainbow diet campaign approach <u>P. Sethuraman Sivakumar</u> , K. Laxminarayana, H. Kesava Kumar, M. Nedunchezhiyan, Mahesh B. Tengli, Ashok Chhetri, R. Sasikumar and M.N. Sheela
TOT AO4	Gendered dynamics in cassava processing and market systems in West Africa: Constraints, opportunities and policy imperatives <u>P.B. Abdulsalam-Saghir</u> , A.A. Adebawale, L.O. Sanni and O.O. Adeuyi

Poster Presentations

TOT AP1	Leadership dynamics and gender representation in vegetatively propagated crops seed systems <u>A.I. Alabi</u> , W. Ezechi, S.Mayanja, B. Okoye, J.P. Legg, D. Amah, O. Adeyeye and O. Nwanze
TOT AP2	Livelihood improvement through tuber crop-based farming system in Assam <u>Navanmoni Buragohain</u> , S. Alam, B.K. Saud and Sanjib Sharma
TOT AP3	Indigenous technical knowledge (ITK) in tuber crops used by tribals in Odisha Sambeet Kumar Parida, Annabatula Sree Vidya, Rasmirekha Padhi, <u>M. Nedunchezhiyan</u> , P.S. Sivakumar, K.H. Gowda, S.K. Jata and G. Byju
TOT AP4	Community led revival of native yams: Biodiversity conservation in the Western Ghats <u>S.N. Rahana</u> , M.G. Vinodkumar, J. Sreekumar, A.N. Jyothi and Bhagya Prakash
TOT AP5	Gender-Integrated breeding and processing of RTB crops with skilled women as research partners <u>Abolore Bello</u> , Olamide Nwanze, N'nan A. Sylvie Diby, Paula Iragaba, Aura Chichango, Tessy Madu, Benjamin Okoye, Alexandre Bouniol, DurodolaOwoade, Miriam Ofoeze, Osvalda Guambe, Mariam Nakitto, Juma J. Okello, Dufor Dominique, Chalmers Mulwa and Béla Teeken
TOT AP6	Economic contribution of cassava seed production among cassava seed entrepreneurs in South-East and South-South zones, Nigeria <u>Ivy Nwamaka Nwokocha</u> , Mark Tokula and Godwin Asumugha

SESSION V: TRANSFER OF TECHNOLOGY AND COMMERCIALIZATION

SUBTHEME B: TECHNOLOGY ASSESSMENT, REFINEMENT AND COMMERCIALIZATION

16.00 - 17.00

ONYX HALL

Lead Talks

TOT BL1	From discovery to delivery: Opportunities and constraints for public-private partnerships to deliver sustainable cassava value chains in Southeast Asia <u>J. C. Newby</u>
TOT BL2	Scaling climate-smart cassava technologies for a sustainable value chain development: Recent policy shifts and strategic investments in West and Central Africa <u>Adebayo Abass Busuru</u> , Benjamin Munganga, Doline Matempa, Ogunkoya Adeniyi, Lukombo Simon, Fotso Apollin, Diebiri-Ojo Elohor, Peter Iluebbey, Diallo Thierno, Kolewole Peter, Nwaoliwe Gregory, Abioye Oyewale , Osun Idowu, Adetoro Nanjimu, Sikirou Mouritala and Abdul-Rasaq Adebawale TAAT - Cassava value Chain, International Institute of Tropical agriculture (IITA)
TOT BL3	Sustainability appraisal for efficient investment opportunity in cassava seed business: Case of commercial seed entrepreneurs in South-East and South-South zones, Nigeria <u>Mark Tokula</u> , Ivy Nwokocha and Godwin Asumugha Director, National Root Crops Research Institute, Umudike

Oral Presentations

TOT BO1	Impact assessment on the adoption of recent agro-techniques of cassava on the livelihood of farmers <u>M. Velmurugan</u> , S.R. Venkatachalam, P. Veeramani, C. Thangamani, C. Indurani and T. Krishnakumar
TOT BO2	Innovating sweet potato seed systems: A market-led approach for roots and tubers <u>S. Rajendran</u> , K. Ogero, M. McEwan and J.W. Low
TOT BO3	Enhancing Chinese potato production through farmer participatory demonstrations: Technologies, prospects and way forward <u>D. Jaganathan</u> , R. Muthuraj, Sheela Immanuel, P. Prakash and G. Byju

Poster Presentations

TOT BP1	Scope of incentives in the scaling of improved seed in Uganda <u>S. Kalimunjaye</u> , S. Akello, S. Namanda and J. G Agea
TOT BP2	Impact of improved cassava varieties on yield and disease management among male smallholder farmers in south-east, Nigeria <u>B.A. Ukeje</u> , M.E. Njoku, N.A. Agwu, C. Nkere, S.P. Justin and C.N. Egesi

TOT BP3	Participatory rural appraisal for understanding farmers' perception of cassava green mite pest and preferred traits in Nigeria <u>Lydia Jiwuba</u> , Agyemang Danquah, Isaac Asante, Essie Blay, Joseph Onyeka, Eric Danquah and Chiedozie Egesi
TOT BP4	Social dynamics associated with implementing mother-baby and tricot participatory trials on selected cassava varieties in Nigeria <u>Gospel Edughaen</u> , O. Nathaniel, M. Tessy, O. Samuel, E. Mercy, N. Olamide, B. Abolore, O. Durodola, U. Chike, U. Ekanem, I. Rabbi and T. Béla
TOT BP5	Assessing the variety turnover of sweet potato varieties in Tanzania. What does the Weighted Average Varietal Age (WAVA) show about genetic gain? <u>Saadon A. Edson</u> , Stef de Haan, Conny J.M. Almekinders, Kwame Ogero, Srinivasulu Rajendran and Mwanjia Ngangambe
TOT BP6	Transforming yam value chains: Unlocking agribusiness growth and economic transformation in West Africa <u>Odom-Kolombia Oluchi</u> , Adeyemo Oluseyi, Agre Paterne, Mushoriwa Hapson and Asrat Amele

POSTER SESSION : SESSION III, IV & V

DAY 4

20 NOVEMBER 2025

STAKEHOLDERS INTERFACE

09.00 - 13.00

**ICAR-CTCRI, SREEKARIYAM,
THIRUVANANTHAPURAM**

LUNCH

13.00-14.00

INSTITUTE TOUR

14.00 - 17.00

**ICAR-CTCRI, SREEKARIYAM,
THIRUVANANTHAPURAM**

ISTRC AWARD CEREMONY

17.00 - 18.00

CULTURAL PROGRAMME

18.00 - 19.00

DINNER	19.00 - 20.00
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DAY 5	21 NOVEMBER 2025
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KEYNOTE LECTURE	
09.00 - 10.00	OPUS HALL

Keynote Lectures

- 1. Innovation to impact: The journey of banana research and development in India**
Dr. R. Selvarajan
 Director, NRC for Banana, Trichy, Tamil Nadu, India

SESSION VI: FRONTIERS IN BANANA RESEARCH-FROM GENETIC RESOURCES TO SUSTAINABLE PRODUCTION	
10.00 - 13.00	OPUS HALL

Lead Talks

FBR L1	Integrating emerging breeding tools and strategies to advance banana and plantain improvement in Africa D. Amah , M. Nyine, B. Uwimana, M. Batte, Y. Kolombia, V. Nakato, V. Banda and R. Swennen
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FBR L2	Networking of banana research in India under AICRP-Fruits platform: Impact and achievements <u>Prakash Patil</u> and N.U. Vani
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Oral Presentations

FBR O1	Understanding plantain and banana seed systems and building seed security in West and Central Africa R.B. Ibe, <u>D.O. Ibitoye</u> , D. Mignouna, M. Nyine, V.W. Onuoha, O.A. Ayo, M.L. Attanda, R. Swennen and D. Ama
FBR O2	Influence of flower morphology, anthesis phase and cryoprotectant on pollen cryopreservation response of four subspecies of wild bananas (<i>Musa acuminata</i>) <u>Ika Roostika</u> , Apriliana Dyah Prawestri, Dian Latifah, Yulita Ratna Mufida, Ade Yusup Yuswandi, Witjaksono and Enny Sudarmonowati
FBR O3	Evaluation of matooke and plantain banana hybrids for disease resistance and suitability under the agro-climatic conditions of India <u>S. Backiyarani</u> , S. Kalpana, S. Uma, R. Thangavelu, P. Durai, R. Swennen, M. Nyine, M. Batte, A. Barekye, S. Saranya, S. Eugin Perianayagaraj, R. Karthic and R. Selvarajan
FBR O4	Banana research updates on shade response (mutual, artificial and canopy) and variety differences by morphology, hyperspectral signature, electrochemistry, bioinformatics <u>V. Arunachalam</u> , B.V. Premkrishnan, C.M. Fernandes and D.C. Salgaonkar
FBR O5	Iron biofortification in Grand Naine banana by constitutive overexpression of <i>Oryza sativa</i> nicotianamine synthase genes <u>M. Mayil Vaganan</u> , S. Sharmiladevi, A. Kavitha, J.A.R. Misthika, V.K. Mailraja, I. Ravi and R. Selvarajan
FBR O6	CRISPR-based functional disruption of transcription factors (ATAF2 and LBD20): A genome editing strategy towards developing fusarium wilt resistance in banana (Grand Nain, AAA) <u>Jeyabharathy Chandrasekaran</u> , Backiyarani Suthanthiram, Eugin Perianayagaraj Selvaraj, Saranya Swaminathan and Selvarajan Ramasamy
FBR O7	Sustainable strategy for banana cultivation: Increasing water and nutrient savings with IoT and sensor technology <u>I. Ravi</u> , K.J. Jeyabhaskaran, K. Stella Mary, T. Anithasree and R. Selvarajan
FBR O8	Banana waste as a soil conditioner: Improving soil water holding capacity, nutrient availability and plant growth

	<u>Prabhu Govindasamy</u> , N. Celcia Jenifer, K. Sedhupathi, K.J. Jeyabaskaran, Pramod Shelake, I. Ravi, M. Loganathan, V. Sukumar and R. Selvarajan
FBR O9	An ALLIANCE approach to banana bunchy top virus (BBTV) management in sub-Saharan Africa <u>P. Lava Kumar</u> , T. Alabi, George Mahuku and K.K.M. Fiaboe
FBR O10	Epidemiological insights and yield loss assessment of cucumber mosaic virus infecting banana in India <u>K. Nagendran</u> , Prashant Sharad Waghrukhar, Y. Durga, V. Balasubramanian and R. Selvarajan
FBR O11	Harnessing fusarium diversity on Indonesian bananas: A baseline study for pre-breeding program <u>Nur Laili</u> , Syafiq Pramunadipita, Rini Riffiani, Eko Darma Husada, Riska Neo Endra Lelana, Achirul Nditasari, Agung Adi Nugroho, Fajarudin Ahmad, Danang Ambar Prabowo, Entis Sutisna, Nani Maryani and Enny Sudarmonowati
FBR O12	Banana polysaccharides for nutraceuticals, smart delivery and making bio-composites <u>P. Suresh Kumar</u> , Shuprajhaa, K.N. Shiva, Pramod Shelake and R. Selvarajan
FBR O13	Banana-based bioactives: Exploring the antiviral and antimicrobial arsenal of selected banana cultivars <u>Sujogya Kumar Panda</u>
FBR O14	Land to lab – Extension initiative for exploring the status, potential and utilisation of ITC accessions for banana improvement and development in India <u>Chidambara Karpagam</u> , Backiyarani Suthanthiram, Chinnathambi Sivananth, R. Arthee and Ramasamy Selvarajan
FBR O15	<i>In vitro</i> regeneration behavior of an ornamental banana from Trivandrum using immature male flower bud explants <u>M.S. Saraswathi</u> , C. Karthi, M. Uma Bharathi, M. Bathrinath and P. Durai

Poster Presentations

FBR P1	Developing pro-vitamin A biofortified banana: Transgenic Grand Nain lines in multi-state trials <u>S. Backiyarani</u> , S. Eugin Perianayagaraj, S. Saranya, M. Mayil Vaganan, A.P. Patel, P. Durai, C. Anuradha, S. Uma and R. Selvarajan
FBR P2	<i>In silico</i> analysis of non-synonymous SNPs in DIR genes: Implications for eumusae leaf spot resistance in banana (<i>Musa</i> spp.)

	<u>M.S. Saraswathi</u> , D. Sharmila Gayatri, R. Soundaryan, A.P. Salini, R. Sasikala, S. Backiyarani and S. Uma
FBR P3	Physiological and genetic responses of AAB and ABB banana genotypes to soil moisture deficit stress <u>I. Ravi</u> , K. Stella Mary, T. Anithasree, N. Marimuthu and M. Mayil Vaganan
FBR P4	First insights into banana–rice crop differentiation using multispectral data <u>R. Gopi</u> , Prabhu Govindasamy, I. Ravi, M. Loganathan, K. Nagendran, V. Balasubramanian and R. Selvarajan
FBR P5	The Ppub22/pub23 double mutant confers enhanced resistance against <i>Xanthomonas vasicola</i> pv. <i>musacearum</i> in banana <u>Jaindra Nath Tripathi</u> , Samwel Muiruri, Trushar Shah and Leena Tripathi
FBR P6	Identification of a low glycemic index banana cultivar (Pisang Lilin, AA) and its biochemical characterization <u>M. Mayil Vaganan</u> , V.K. Mailraja, K. Stella Mary, I. Ravi, K.N. Shiva, K. Kamaraju and R. Selvarajan
FBR P7	Climate-smart bunch management strategies and advances in post-harvest management technologies for extending shelf-life of banana <u>K.N. Shiva</u> , P. Suresh Kumar, K.J. Jeyabaskaran, D. Amelia Keran, K. Kamaraju and R. Selvarajan
FBR P8	Nutritional profiling of two cultivars of dessert banana <u>J. Resmi</u> , S.R. Abhila, Dicto Jose, Gavas Rajesh, Arun Thazath and Vimi Louis
FBR P9	Technological backstopping and outreach strategies for banana production and utilization: Insights from ICAR-NRCB <u>C. Karpagam</u> , A. Mohanasundaram, K.N. Shiva, V. Kumar, K.J. Jeyabaskaran, P. Ravichamy, S. Harishwar and R. Selvarajan
FBR P10	Genetic and metabolite diversity among underutilized banana cultivars from Kerala <u>C.R. Sruthy</u> , L. Resmi, E.A. Siril, M. Dicto Jose and Vimi Louis
FBR P11	CRISPR/Cas9 mediated knockout of <i>downy mildew resistance 6</i> gene(s) for fusarium wilt resistance in Grand Nain banana <u>Anuradha Chelliah</u> , Samuel Peter, Mohana Priya Sundararaju, Backiyarani Suthanthiram, Deepa Gnanasekar and Selvarajan Ramasamy
FBR P12	CRISPR/Cas9-mediated editing of <i>Nudix Hydrolase</i> genes for fusarium wilt resistance in banana (<i>Musa</i> spp.) Mohana Priya Sundararaju, <u>Anuradha Chelliah</u> , Samuel Peter, Backiyarani Suthanthiram, Eugin Perianayagaraj Selvaraj, Deepa Gnanasekar and Selvarajan

	Ramasamy
FBR P13	Dual genetic approaches reveal the functional role of <i>resistance gene analog 2</i> in conferring resistance to fusarium wilt tropical race 4 in banana (<i>Musa</i> sp.) <u>Samuel Peter</u>, Anuradha Chelliah, Mohana Priya Sundararaju, Backiyarani Suthanthiram, Kalpana Sathiamoorthy, Deepa Gnanasekar and Selvarajan Ramasamy
FBR P14	Pangenome-wide identification, evolutionary analysis, and characterization of <i>WOX</i> gene family among species, subspecies and cultivars of <i>Musa</i> and <i>Ensete</i> genomes <u>Chandrasekar Arumugam</u>, Anuradha Chelliah and Selvarajan Ramasamy

PLENARY SESSION

14.00 - 17.00

OPUS HALL