



46th ANNUAL MEETING OF PLANT TISSUE CULTURE
ASSOCIATION (INDIA)
- AND SYMPOSIUM ON -
CURRENT TRENDS AND CHALLENGES IN PLANT
BIOTECHNOLOGY
24th – 26th FEBRUARY, 2025



PROGRAM SCHEDULE

Registration @ Auditorium, BITS Goa

23 - Feb- 2025 from 06:30PM to 08:30PM ---- 24-Feb-2025 from 08:00AM to 09:30AM

24-Feb-2025 from 09:30 to 11:00AM

Auditorium, BITS Goa

Inaugural Session

Inaugural Speaker

Dr. T. R. Sharma

[DDG (Crop Science), ICAR, New Delhi]

24-Feb-2025 from 11:00 to 11:30AM



High Tea



Group Photography

24 February, 2025 - 11:30 Am - 01:00 PM

MEMORIAL AND KEYNOTE LECTURES

CHAIR:

Prof. Pramod Tandon

[Secretary, PTCA(I)]

CO-CHAIR:

Prof. Utpal Roy

(BITS Pilani, Goa)

Dr. P. S. Ahuja Award Lecture

Dr. Sneha Lata Singla-Pareek

(ICGEB, New Delhi)

From Stress to Success: Generating Climate-Smart Rice for a Changing World

Prof. F. C. Steward Memorial Lecture

Dr. Tarun Kant

(Arid Forest Research
Institute, Jodhpur)

Combating Degradation and Desertification of Land and
Enhancing Land Productivity Coupled with Climate Change
Resilience through Biotechnological Innovations

Keynote Talk-1

Dr. Sudesh Kumar Yadav

(IHBT, Palampur)

Towards Mitigating the Challenges through Metabolic
Engineering and Bioprocessing for Value Addition in Plants

01:00 PM to 02:00 PM

Lunch



PTCA(I) Member Presentation

Venue: DLT-9

CHAIR:

Prof. Rakhi Chaturvedi
(IIT, Guwahati)

CO-CHAIR:

Dr. Anil K. Singh
(ICAR-NIPB, Delhi)

Concurrent Sessions

Time	Speaker	Topic
02:00 PM - 02:10 PM	Dr. Abhishek Sharma	Monoterpenoid Indole Alkaloids Pathway Modulation Studies in <i>Catharanthus Roseus</i>
02:10 PM - 02:20 PM	Dr. Ashutosh Pandey	Elucidating the Intricacies of Regulatory Aspects of Specialized Metabolism in Crop Plants: From Fundamental Knowledge to Metabolic Engineering
02:20 PM - 02:30 PM	Dr. Amit Kumar Gupta	In Vitro Morphogenesis and Genetic Diversity Studies of Woody Plant Species of Rajasthan
02:30 PM - 02:40 PM	Dr. Charan Preet Kaur	Digging Deeper for Harnessing Stress Resilience in Plants: Exploring Methylglyoxal Dynamics during Plant-Microbe Interactions
02:40 PM - 02:50 PM	Dr. E. A. Siril	Micropropagation of Dye Yielding Plants and in vitro Production of Natural Dyes
02:50 PM - 03:00 PM	Dr. Hiranjit Choudhury	Conservation Efforts for Some RET and Endemic Species of North-Eastern Region of India
03:00 PM - 03:10 PM	Dr. Mahipal Sekhawat	Silicon Nanoparticles (Sinps) Mediated Morpho-Structural and Histochemical Improvements in Micropropagation of Medicinal Plants
03:10 PM - 03:20 PM	Dr. Meera Das	Cryobiotechnology for Long Term Storage and Germplasm Management with Special Reference to Orchids of North-East India
03:20 PM - 03:30 PM	Dr. Mukul Joshi	Transcriptomic Approach for Identification of Heat Shock Proteins from <i>Prosopis Cineraria</i> , their Interaction Studies and Crop Improvement
03:30 PM - 03:40 PM	Dr. Neelam P. Negi	Bringing Resilience to Mustard: Genetic Manipulation Strategies to Combat Drought and Salinity Stress
03:40 PM - 03:50 PM	Dr. Neha Sharma	Biotechnological Interventions in Some Commercially Important Crops
03:50 PM - 04:00 PM	Dr. Praveen C. Verma	Biotechnological Approaches, Including Genome Editing Technologies for Pest Management and Crop Improvement
04:00 PM-04:15 PM	Tea Break	
04:15 PM - 04:25 PM	Dr. Rajesh Mehrotra	Atavt6 Family of Amino Acid Transporters as Target for Crop Improvement: A Comparative Genomics and Metabolomics Tale
04:25 PM - 04:35 PM	Dr. Rajnish Sharma	Biotechnological Interventions in the Improvement and Conservation of Temperate Horticultural Crops
04:35 PM - 04:45 PM	Dr. Riddhi Datta	Climate-Smart Crops for a Food Secure Future: Leveraging Plant Signaling for Sustainable Agriculture
04:45 PM - 04:55 PM	Dr. Sanjana Negi	Molecular Insights into Stress Resilience and Xylem Development in Banana
04:55 PM - 05:05 PM	Dr. Sudipta Ray	Dehydrins, Raffinose and Anthocyanins: Gamechangers in Stress Biology!!
05:05 PM - 05:15 PM	Dr. Sushma Mishra	Interaction Between Cryptochromes and Gibberellin Metabolism Pathway in Regulating Seedling Photomorphogenesis in <i>Arabidopsis thaliana</i>
05:15 PM - 05:25 PM	Dr. S. Girija	Bioengineering of Plants through Tissue Culture for Sustainable Production of High Value Bioactive Compounds

DAY 1 - 24-02-2025



Theme IV: Plant Development

Venue: DLT-10

CHAIR:

Dr. Alok K. Sinha
(NIPGR, New Delhi)

CO-CHAIR:

Dr. Manohara K. K.
(ICAR-CCARI, Goa)

Concurrent Sessions		
Time	Speaker	Topic
Lead Speakers		
02:00 PM-02:20 PM	Dr. Manoj Majhee (NIPGR, New Delhi)	Drying Without Dying: A Fascinating Feature of Seeds
02:20 PM - 02:40 PM	Dr. Aniruddha P. Sane (CSIR-NBRI)	The EAR Motif Repressor, Slrf36, Controls Whole Plant Growth and Stress Responses through Manipulation of the GA-Ethylene Pathways
02:40 PM - 03:00 PM	Prof. Sourabh Datta (IISER, BHOPAL)	BBX Proteins Regulating Light-Mediated Development and UV-B Protection in Plants
Oral Presentations		
03:00 PM - 03:10 PM	Dr. Vishal Sharma	Developing Fusarium Yellows Resistant Ginger Plants by Combining Gamma Irradiations with <i>in vitro</i> Selection
03:10 PM - 03:20 PM	Dr. Gireesha T. M.	Loss Of RdDm-Independent CHH Methylation is Sufficient for Disruption of Developmental Chromosome-Specific rRNA Gene Silencing
03:20 PM - 03:30 PM	Dr. Gopal Banerjee	MPK3 Mediated Cell Division Control Maintains Rice Plant Vigor and Yield
03:30 PM - 03:40 PM	Rishi Kumar Verma	Regulating the Degeneration of Anthers' Tapetum Contributes to Male Sterility, Enabling a Rescued Fertility System for FI Cotton Production
03:40 PM - 03:50 PM	Sarvesh Jonwal	MPK3-Mediated Phosphorylation of RbcS via STY Kinase Regulates Its Trafficking from the Cytoplasm to the Chloroplast
03:50 PM - 04:00 PM	Rumi	OsJAZ10-OsMPK3/4&6 Signaling Module Fine-Tunes Anther Development in Rice
04:00 PM-04:15 PM	Tea Break	
04:15 PM - 04:25 PM	Pooja Patwal	GARP Transcription Factor SLGCC Regulates Root Development and Negatively Regulates Salinity Stress
04:25 PM - 04:35 PM	Anjeo Saji	Evolutionary Approaches Predicted Changes In Transcription Factors and Cis-Elements that Associate with Kranz Anatomy Development in Maize
05:00 PM - 06:30 PM	Poster Session I - THEME I, IV and V	
06:30 PM - 07:30 PM	General Body Meeting (DLT-9)	
07:30 PM Onwards	Dinner at VGH	

DAY 1 - 24-02-2025



Theme I: Plant Tissue Culture and Entrepreneurship

Venue: DLT-9

CHAIR:

Prof. Samit Chattopadhyay
(BITS Pilani, Goa)

CO-CHAIR:

Dr. T. K. Mondal
(ICAR-NIPB)

KEYNOTE LECTURE

09:30 AM – 11:00 AM

Keynote Talk-2

Prof. Om Parkash Dhankher (Umass Amherst, USA) A Novel Gamma-Glutamyl Cycle for Improving Oxidative Stress Tolerance and Food Safety via Maintaining GSH Homeostasis in Plants

Keynote Talk-3

Prof. Ashwani Pareek (NABI, Mohali) Decoding Osmosensing: Unraveling Stress-Resilience Pathways in Rice

Keynote Talk-4

Dr. Alok K. Sinha (NIPGR, New Delhi) MPK4, A New Player in Thermosensing in *Arabidopsis* Regulates Deposition Of Histone Variant H2A.Z

11:00 - 11:20 AM - Tea Break

CHAIR:

Prof. Padmanabh Dwivedi
(BHU, Varanasi)

CO-CHAIR:

Dr. Siddhi Jalmi
(Goa University, Goa)

Concurrent Sessions

Time	Speaker	Topic
Lead Speakers		
11:20 AM - 11:40 AM	Prof. Rakhi Chaturvedi (IIT Guwahati)	Scaling-Up Plant Tissue Culture Products through Bioreactor Technology
11:40 AM - 12:00 PM	Prof. Padmanabh Dwivedi (BHU Varanasi)	In vitro Conservation of Commercially Important Anti-Diabetic Plant <i>Stevia rebaudiana</i> : Insights into Elicitation and Pharmaceutical Relevance
12:00 PM - 12:20 PM	Dr. Shraddha Singh (BARC, Mumbai)	Improvement of Horticultural Crops Using <i>in vitro</i> Mutagenesis Approach
Oral Presentations		
12:20 PM - 12:30 PM	Dr. Manisha Thakur	In vitro Polyploidy Induction in Ginger (<i>Zingiber officinale</i> Rosc.) Cv. Himgiri: Morpho-Physiological, Biochemical And Molecular Evaluation of Regenerates
12:30 PM - 12:40 PM	Dr. Ashok Kumar Patel	Indirect Organogenesis from Mature Leaf-Derived Callus and <i>Ex Vitro</i> Establishment of <i>Cadaba fruticosa</i> (Bahuguni): An Endangered Shrub
12:40 PM - 12:50 PM	Dr. Meena Pandey	Conservation of <i>Ceropegia media</i> (Huber) Ans.: An Endangered Medicinal Plant of the Western Ghats
12:50 PM - 1:00 PM	Dr. Kheta Ram	Optimizing Aeroponic Propagation for Mass Multiplication and Rooting of Henna (<i>Lawsonia inermis</i>)
Lunch Break		
2:00 PM - 2:10 PM	Dr. M. Manokari	Synseeds of <i>in vitro</i> Roots as Inoculum for Storage and Mass Production of Adventitious Roots in <i>Hemidesmus indicus</i> (L.) R. Br. – An Important Plant of Siddha Medicine
2:10 PM - 02:20 PM	Dr. Debashish Mohapatra	Propagation and Germplasm Transfer of Medicinal Plants Using Synthetic Seed: A Case Study of <i>Paederia foetida</i>
02:20 PM - 02:30 PM	Anita Kumari	Characterizing Glyoxalase Family: Expanding Functions of Fundamental Metabolic Profiling in <i>Phyllostachys pubescens</i> (Mazel Ex. J. Houz.)
02:30 PM - 02:40 PM	Krishna Kant Pachauri	Kinetic Modelling of Root Biomass and N-Alkylamides Production from <i>Spilanthes paniculata</i> In a Modified Stirred Tank Reactor
02:40 PM - 02:50 PM	Dr. Rajesh Saini	Micropropagation through Root Culture, Metabolomic, and Genetic Fidelity Assessment of <i>Drypetes roxburghii</i> (Wall.) Hurus.: A Highly Valuable Traditionally Used Woody Medicinal Plant
02:50 PM - 03:00 PM	Jyoti Vishwakarma	Germplasm Conservation of Economically Important Medicinal Plant <i>Nyctanthes arborescens</i> L. through Encapsulation Technique and Maintenance Under Slow Growth Conditions

DAY 2 - 25-02-2025



Theme V: Plant Microbe Interaction

Venue: DLT-10

CHAIR:

Dr. V. Arunachalam
(JNTBGRI, Tiruvananthapuram)

CO-CHAIR:

Dr. Soumendra Kumar Naik
(Ravenshaw University, Cuttack)

Concurrent Sessions		
Time	Speaker	Topic
Lead Speakers		
11:20 AM - 11:40 AM	Dr. Amey Redkar (NCBS, Bangalore)	The Transcriptional Plasticity of Short-Core Chromosomes Drives Plant-Fungal Compatibility across Evolutionarily Divergent Plant Lineages
11:40 AM - 12:00 PM	Dr. Sridev Mohapatra (BITS Pilani, Hyderabad Campus)	Signalling Mechanisms in Plant-Rhizobacterial Interaction for Abiotic Stress Tolerance
Oral Presentations		
12:00 PM - 12:10 PM	Dr. Balakumaran Chandrasekar	Glycobiology of <i>Macrophomina</i> -Soybean Interactions at the cell wall Interface
12:10 PM - 12:20 PM	Dr. Pooja Sharma	Exploring Transcriptome Sequencing for Identification and Characterization of R-Genes in Fusarium Wilt-Tolerant Ginger (<i>Zingiber officinale</i> Rosc.) Developed through <i>in vitro</i> Mutagenesis
12:20 PM - 12:30 PM	Dr. Shasmita	Effect of Biopriming on PSII of Rice Plants Infected with Biotrophic Pathogen
12:30 PM - 12:40 PM	Dr. Sivasubramanian Rajaramohan	Deciphering the Genetic Basis of Pamp-Triggered Immunity against <i>Alternaria brassicae</i> Utilizing the Natural Variation in <i>Brassica juncea</i>
12:40 PM - 12:50 PM	Dr. Nisha Tak	Genomic Insights into Osmotic Stress Tolerance Mechanisms of Symbiotically Efficient Nitrogen Fixing <i>Bradyrhizobium</i> Strain TV4 Isolated from Wild Legume <i>Tephrosia villosa</i> in Indian Thar Desert
12:50 PM - 01:00 PM	Dr. S. R. Dave	Necessity, Benefit and Feature Prospects of Biotization in Plant Tissue Culture
01:00 PM - 02:00 PM	Lunch Break	
02:00 PM - 02:10 PM	Dr. Smrutisanjita Behera	Understanding the Perception of OMVs Released by <i>Xanthomonas oryzae</i> pv. <i>oryzae</i> in Rice
02:10 PM - 02:20 PM	Dr. Radha Shivhare	Harnessing <i>Pseudomonas putida</i> for Early Flowering Induction in Pearl Millet: A Sustainable Strategy to Mitigate Drought Stress and Maintain Yield under Abiotic Challenges
02:20 PM - 02:30 PM	Dr. Ranjan Kumar	An Epigenetic Target Of RSII/FLD, Negatively Regulates Systemic Acquired Resistance in <i>Arabidopsis</i>
02:30 PM - 02:40 PM	Chetan V. N.	Mechanistic Insights into <i>Macrophomina phaseolina</i> -Soybean Interactions in the Apoplast: A Proteomics and Glycomics Approach
02:40 PM - 02:50 PM	Ritika Dwivedi	Unravelling the Function of the Tomato Brown Rugose Fruit Virus Movement Protein in Facilitating Local and Systemic Movement in Plants
02:50 PM - 03:00 PM	Dr. Neeraj Solanki	PDMS-Based Root-On-Chip: Investigating Abiotic Stress Responses and Microbial Colonization on <i>Oryza sativa</i> Roots
03:00 PM - 04:00 PM	Poster Session - THEME II, III and VI	
04:00 PM - 04:15 PM	Tea Break	

DAY 2 - 25-02-2025



Theme II: Plant Metabolites and Nutraceuticals

Venue: DLT-9

CHAIR:

Dr. Sharmila Chattopadhyay
(CSIR-IICB)

CO-CHAIR:

Dr. Sridev Mohapatra
(BITS Pilani, Hyderabad)

DAY 2 - 25-02-2025

Concurrent Sessions		
Time	Speaker	Topic
Lead Speakers		
04:15 PM - 04:35 PM	Dr. Sharmila Chattopadhyay (CSIR-IICB)	Dynamic Potential of Indian Medicinal Plants: Nutraceuticals and Pharmaceuticals Perspective
04:35 PM - 04:55 PM	Prof. Adinipunya Mitra (IIT Kharagpur)	Biomanufacturing Simplified - Generating Added-Value Products in Aromatic Plants
04:55 PM - 05:15 PM	Dr. Rakesh K. Shukla (CSIR-CIMAP)	Understanding the Role of UDP-Glycosyltransferases and Regulatory Modules Involved in the Bacoside Biosynthetic Pathway in <i>Bacopa monnieri</i>
05:15 PM - 05:35 PM	Dr. Sumit Ghosh (CSIR-CIMAP)	Unravelling Enzyme Function in the Multi-Step Pathways of Plant Specialized Metabolism
Oral Presentations		
05:35 PM - 05:45 PM	Dr. Pankaj K. Sharma	Antioxidants from Edible Desert Plants: Validation of Phytochemical Synergy Towards Potential Nutraceutical Development
05:45 PM - 05:55 PM	Prof. Chitta Ranjan Deb	Ethnomedicinal Plants from Nagaland and their Potential Use in Treatment/Management of Diabetes Mellitus
05:55 PM - 06:05 PM	Dr. Monisha Kottayi	Plant Tissue Culture: A Novel Tool for Biotransformation of Cell Culture Metabolites in <i>Mesosphaerum suaveolens</i> (L.) Kuntze. and <i>Ocimum basilicum</i> L.
06:05 PM - 06:15 PM	Dr. Jaya Arora	Isolation and Characterization of Bioactive Peptides from <i>Balanites aegyptiaca</i> (Linn.) Delile (Desert Date) for Health and Sustainability Goals: <i>In vitro</i> and <i>in silico</i> Investigations
06:15 PM - 06:25 PM	Dr. Nithya Kutty	Exploring the Use of Natural Deep Eutectic Solvents for Green Extraction of Floral Metabolites to Develop Nutraceuticals
06:25 PM - 06:35 PM	Dr. Meena Barupal	Metabolic Diversity in <i>Phyllanthus</i> Species from Semi-Arid Regions under Natural Climate Conditions
06:35 PM - 06:45 PM	Dr. Anchal Garg	Functional Characterization of the Ent-Copalyl Pyrophosphate Synthases Revealed Important Role of Apcps2 In Medicinal Diterpenoid Biosynthesis and Defense Against Insect Herbivore in Kalmegh (<i>Andrographis paniculata</i>)
06:45 PM - 06:55 PM	Dipanjali Chatterjee	Harnessing the Potential of Spectral Led Lights in Enhancing Glandular Trichome Density and Accumulation of Bioactive Specialized Metabolites in Spearmint
06:55 PM - 07:05 PM	Praveen Kumar Shukla	<i>Phyllanthus fraternus</i> G.L. Webster Leaves Metabolomics Profiling, Antioxidant Estimation, and <i>in silico</i> Characterizations for Potent Hepatoprotective Nutraceuticals
07:05 PM - 07:15 PM	Poonam Vyas	Functional Characterization of UDP-Glycosyltransferase of the Arjuna Triterpene Saponin Pathway
07:15 PM - 07:25 PM	K. P. Sreelakshmi	Antimicrobial Lipopeptides as Secondary Metabolites Produced by Microbes and Plants and their Applications in Agriculture and Nutraceuticals



Theme III: Abiotic Stress Biology

Venue: DLT-10

CHAIR:

Prof. Manoj Prasad

(Delhi University, South Campus)

CO-CHAIR:

Dr. Mukul Joshi

(BITS Pilani, Pilani)

Concurrent Sessions		
Time	Speaker	Topic
Lead Speakers		
04:15 PM – 04:35 PM	Dr. T. K. Mondal (ICAR-NIPB)	Discovery and Validation of Novel QTLs/Genes Associated with Awn Length Variation in African Rice (<i>Oryza glaberrima</i> Steud)
04:35 PM – 04:55 PM	Dr. Pradeep Agarwal (CSIR-CSMCRI)	Role of SiMYB77 Transcription Factor from <i>Sesamum indicum</i> towards Abiotic Stress Tolerance in Transgenic Plants
04:55 PM – 05:15 PM	Dr. Anil Kumar (ICAR-NIPB)	AtUSP17 Negatively Regulates Salt Stress Tolerance by Modulating Multiple Signalling Pathways in <i>Arabidopsis</i>
Oral Presentations		
05:15 PM – 05:25 PM	Dr. Giridhar Parvatam	The Effectiveness of Nanomaterials on Plant Growth and Stress Resistance: Insights Gained So Far and Promising Avenues for Future Research
05:25 PM – 05:35 PM	Dr. Ananda Mustafiz	Exploring the Role of Phytosulfokine Receptor as a Positive Regulator of Leaf Senescence and Amplifier of ABA Signaling in <i>Arabidopsis thaliana</i>
05:35 PM – 05:45 PM	Dr. Deepak Kumar	Unmasking the Role of Myb Transcription Factors of Mungbean in the Battle Against Waterlogging Stress
05:45 PM – 05:55 PM	Dr. Shweta Jha	Evaluating Salt-Adaptation Mechanism in Xero-Halophyte: A Step Towards Climate-Smart Agriculture
05:55 PM – 06:05 PM	Dr. Naveen Malik	Phosphate Starvation Response in Pearl Millet (<i>Pennisetum glaucum</i>): An Unsolved Puzzle
06:05 PM – 06:15 PM	Dr. Sumit Kumar Mishra	An Insight into Regulatory Role of A Class A HSF Gene in Abiotic Stress Response in Barley
06:15 PM – 06:25 PM	Ankush Sharma	Natural Variation in Shoot Biomass Reveals Genetic Candidates Responsible for Salt Tolerance and Thiourea Responsiveness in Soybean
06:25 PM – 06:35 PM	Yogesh Negi	Overexpression of ABA-Dependent OsWnk9 Improves Root Growth and Regulates Stomatal Opening in Rice Under Salinity Stress
06:35 PM – 06:45 PM	Suman Gusain	Exploring Elicitor Mitigated Changes in Cellular Dynamics During <i>in vivo</i> and <i>in vitro</i> Propagation of Saffron (<i>Crocus sativus</i> L.) Under Drought Stress
06:45 PM – 06:55 PM	Deepika Dake	Melatonin Mediated Induction of Autophagy via Regulation of Drought Induced Methylglyoxal Levels in Cotton (<i>Gossypium hirsutum</i> L.)
07:15 PM – 07:25 PM	Dr. Lisha Khungar	Decoding the Code for High Temperature Resilience in Barley
07:30 PM Onwards		Dinner at VGH

DAY 2 – 25-02-2025



Theme VI: Plant Genome and Editing

Venue: DLT-9

CHAIR:

Dr. K. C. Bansal

(Murdoch University, Perth, Australia)

KEYNOTE LECTURE

09:30 AM – 11:30 AM

CO-CHAIR:

Dr. Gireesha T.M

(BITS Pilani, Hyderabad)

Keynote Talk-5

Dr. K. C. Bansal

(Murdoch University, Perth, Australia)

Genome Editing: Indian Initiatives and Prospects for Crop Improvement

Keynote Talk-6

Dr. P. K. Trivedi
(CIMAP, Lucknow)

Tiny Players, Big Impact: Peptides in Plant Development and Environmental Stress

Keynote Talk-7

Prof. Manoj Prasad

(Delhi University, South Campus, New Delhi)

Non-Coding RNAs: Armor Against Virus Infection

Keynote Talk-8

Dr. Subhra Chakraborty
(NIPGR, New Delhi)

Demystifying Proteogenomic Landscape and Organeller Control of Health to Disease Linking Multi-Host Response

11:30 AM to 11:45 AM Tea Break

CHAIR:

Dr. K. C. Bansal

(Murdoch University, Perth, Australia)

CO-CHAIR:

Dr. Balakumaran Chandrasekar

(BITS Pilani, Pilani)

Concurrent Sessions

Time	Speaker	Topic
Lead Speakers		
11:45 AM-12:05 PM	Dr. Jitendra Giri (NIPGR, New Delhi)	Editing cis-Elements of <i>OsPHO1</i> ; 2 Improved Phosphate Transport and Yield in Rice
12:05 PM-12:25 PM	Dr. Satendra K. Mangrauthia (ICAR-IIRR, Hyderabad)	<i>Kamala</i> : A Novel Rice Mutant Developed through Multiplex Genome Editing Offers Sustainable Solutions for Indian Agriculture
Oral Presentations		
12:25 PM-12:35 PM	Dr. Vidhu A. Sane	Hidden Story of Roots: Role of HSFs in Root Development and Plant Growth
12:35 PM-12:45 PM	Dr. Rita Sharma	Genetic Enhancement of Sorghum for Heat Tolerance and Nutritional Food Security
12:45 PM-12:55 PM	Dr. Manoj K. Sharma	<i>Sorghum</i> Genome Engineering: Optimization of Regeneration and Transformation Procedures for <i>Sorghum</i> Cultivars
01:00 PM – 02:00 PM Lunch Break		
02:00 PM-02:10 PM	Dr. Hasthi Ram	Developing Higher-Order Knockout Population in Rice through CRISPR-Cas9 Library Approach
02:10 PM-02:20 PM	Dr. Prafull Salvi	Deciphering the Molecular Roles of Seed-Associated Transcription Factors in Rice using CRISPR/Cas9 Based Multiplex Genome Editing Approach
02:20 PM-02:30 PM	Dr. Shaiesh Morajkar	Exploring the Combination of SSR Markers And 3-Locus DNA Barcode-Based SNPs for DNA Fingerprinting and Identification of Local Rice Landraces
02:30 PM-02:40 PM	Dr. Rupam Kumar Bhunia	Gene Editing of Rice Bran Lipase Improves Shelf-Life of Bran Lipid
02:40 PM-02:50 PM	Dr. Shuvobrata Majumder	Pyramided Transgenic Lines Resistant to Insects, Fungi, and Herbicides: Super Jute
02:50 PM-03:00 PM	Prabhatam Mishra	Exploring Targeted DNA Methylation and De-Methylation of Genes for Trait Manifestations in the Indian Himalayan Populations of <i>Arabidopsis thaliana</i>
03:00 PM-03:10 PM	Prof. Ashwani Kumar	Gene Editing in Plants: CRISPR-Cas and Its Applications

DAY 3 – 26-02-2025



Entrepreneurship and Industries

Venue: DLT-10

CHAIR:

Dr. Ashutosh Pandey
(NIPGR, New Delhi)

CO-CHAIR:

Dr. Malabika Biswas
(BITS Pilani, Goa)

Concurrent Sessions		
Time	Speaker	Topic
Lead Speakers		
11:45 AM-12:05 PM	Dr. Ashutosh Pandey (NIPGR, New Delhi)	NCS-TCP: Encouraging Entrepreneurs And Safeguarding Farmers Using Plant Tissue Culture Technology (THEME: I)
12:05 PM-12:25 PM	Dr. Sanjay Kumar (BITS Pilani, Goa)	Nutraceuticals: Nature's Pharmacy For A Heathier Tomorrow (THEME: II)
12:25 PM - 12:45 PM	Dr. Aruna Kilaru (East Tennessee State University, USA)	Harnessing Moss Bioreactors for Scalable Production of Oils: A Synthetic Biology Approach (THEME: I)
Industry Speakers		
12:45 PM - 1:00 PM	Dr. K. B. Patil (Jain Irrigation Systems Limited, Jalgaon, Maharashtra)	Management of Cucumber Mosaic Virus in Banana
01:00 PM - 02:00 PM	Lunch Break	
2:00 PM-2:15 PM	Dr. Nibir Roy (Sashanka Agro Tech Pvt. Ltd., Ranchi, Jharkhand)	Overview of Sashanka Agro Tech

DAY 3 - 26-02-2025

26 February, 2025 - 03:15 PM - 04:00 PM - Venue: DLT-9

Valedictory Session



High Tea