Theme 5: Horticulture based **Transformations of Food Systems**

Theme Convenor Dr. Sanjay Kumar Singh Director, ICAR-IIHR, Bengaluru

> Date: 12 October 2023 Time: 10.45 - 12.45 hrs. Venue: Sini 1

Technical Session 1 (Theme 5-TS-1) Fruit and Plantation Crops

Session Coordinator: Dr. Sanjay Kumar Singh, Director, ICAR-IIHR, Bengaluru

Co-Chair I	Co-Chair II
Dr. S.D. Shikhamany	Dr. Balraj Singh
Former Vice-Chancellor	Vice- Chancellor, SKN Agriculture University,
Dr. YSR Horticultural University	Jobner, Jaipur, Rajasthan
Email: sdshikhamany@gmail.com	Email: vc@sknau.ac.in
Rapporteur I	Rapporteur II

Dr. Deepu Mathew, KAU Dr. Shoji Joy Edison, KVK, Ernakulam Speaker Topics **Keynote Lecture Dr. Anand K. Singh** Vice Chancellor, CSAU&AUT Kanpur Email: aksingh36@gmail.com Invited Lecture Dr. S. Uma **Principal Scientist** ICAR-NRC on Banana, Thiruchirapally **Plantation Crops** Email: umabinit@yahoo.co.in **Dr. Sanjay Kumar Singh Invited Lecture**

Director, ICAR-IIHR, Bengaluru Email: sanjaydr2@gmail.com

Dr. Partha P. Choudhury Principal Scientist, ICAR-IIHR, Bengaluru Email: partha.choudhury1@icar.gov.in

Dr. Sajad Un Nabi Scientist, ICAR-CITH Srinagar, Jammu and Kashmir Email: sajad.naingroo@icar.gov.in

Duration 30 min Hi-volume Multiplication of Quality Planting Material for Atmanirbhar Bharat in Fruit Crops 20 min Organic Production of Fruits and

20 min Fast Track Breeding Approaches in Fruit Crops for Targeted Genotype Development **Invited Lecture** 20 min Integrated Approaches for Safe Horticulture Production: Pesticide Residue Management Session Presentation 20 min

Transmission and Real time detection of viruses (ApMV and ApNMV) associated with mosaic disease of apple (Malus domestica)

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Discussion		15 min
Co-Chairs' Remarks		5 min

Date: 12 October 2023 Time: 13.45 - 15.45 hrs. Venue: Sini 1

Technical Session 2 (Theme 5-TS-2) Vegetable and Tuber Crops Session Coordinator: Dr. T.K. Behera, Director, ICAR-IIVR, Varanasi				
Co-Chair I Dr. Bijendra Singh Vice-Chancellor, ANDUA&T Ayodhya, Uttar Pradesh Email: vcnduat2018@gmail.com	Co-Chair II Dr. S.K. Chakrabarti Vice-Chancellor, UBKV Cooch Behar, West Bengal Email: vc@ubkv.ac.in			
Rapporteur I	Rapporteur II			
Dr. Anikuttan K., ICAR-CMFRI Speaker	Dr. Kalidas C., ICAR-CMFRI Topics	Duration		
Dr. Major Singh Member (PS) Agricultural Scientists Recruitment Board Krishi Anusandhan Bhavan-I, Pusa, New Delhi Email: singhvns@gmail.com	Keynote Lecture Trait-specific Vegetable Breeding: Genetic Resources and Pre- breeding	30 min		
Dr. Madhavi Reddy K. Principal Scientist, Division of Vegetable Crops ICAR-IIHR, Bengaluru Email: MadhaviReddy.K@icar.gov.in	Invited Lecture Targetted Breeding of Vegetables for Safe Production	20 min		
Dr. Sudhakar Pandey ADG (Hort-II), ICAR, New Delhi Email: sudhakarpandey.hsd@icar.org.in	Invited Lecture Gene Editing in Vegetables for Biotic and Abiotic Stress Management	20 min		
Dr. A. N. Tripathi Scientist, ICAR-IIVR, Varanasi Email: antripathi_patho@rediffmail.com	Session Presentation Detection, identification and chemo- sensitivity of seed borne pathogens in vegetable crop seeds	15 min		
Discussion		15 min		
Co-Chairs' Remarks		5 min		

Date: 12 October 2023 16.30 - 18.30 hrs. Venue: Sini 1

Technical Session 3 (Theme 5-TS-3) Spices, Ornamental & Medicinal Plants Session Coordinator: Dr. R Dinesh, Director, ICAR-IISR, Kozhikode Co-Chair I Co-Chair II Dr. T. Janakiram Dr. K. Nirmal Babu Vice-Chancellor Former Director Dr. Y.S.R. Horticultural ICAR-IISR, Kozhikode, Kerala Universitv Email: nirmalbabu30@gmail.com Andhra Pradesh Email: vc@drysrhu.edu.in **Rapporteur I Rapporteur II** Dr. Thankam T. Paul, ICAR-CIFRI Dr. Jayasree E., ICAR-IISR, Kozhikode **Speaker Topics Duration** Dr. Vinay Bhardwaj **Keynote Lecture** 30 min Director **Total Quality Management in High ICAR-NRC** on Seed Spices Value Spice Production Ajmer Email: director.nrcss@icar.gov.in Dr. K.V. Prasad **Invited Lecture** 20 min Director, ICAR-DFR, Pune Pigments as Components of Functional Foods: Lab to Email: director.dfr@icar.gov.in **Commercial Production** Dr. A.K. Shasany **Invited Lecture** 20 min Director, CSIR-NBRI, Lucknow Application of Nanotechnology in Email: akshasany@yahoo.com Horticultural Production Dr. D. Prasath 20 min Invited Lecture Principal Scientist, ICAR-IISR, Kozhikode Nutraceuticals from Indian Spices Email: Prasath.D@icar.gov.in **Session Presentation** Mrs. A.M. Simmy 15 min Asst. Professor, AICRP on Floriculture Ornamental flowers: Potential for future College of Agriculture, Vellanikkara food and health, an investigation. Email: simmy.am@kau.in Discussion 15 min **Co-Chairs' Remarks** 5 min

Date: 13 October 2023 Time: 10.45 - 12.45 hrs. Venue: Sini 1

Technical Session 4 (Theme 5-TS-4) Nutraceuticals and Value Addition

Session Coordinator: Dr. Brajesh Singh, Director, ICAR- CPRI, Shimla

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Co-Chair I Dr. N. Kumar Former Vice-Chancellor TNAU, Coimbatore, Tamil Nadu Email: kumarhort@yahoo.com	Co-Chair II Dr. B.C. Deka Vice-Chancellor, AAU Jorhat, Assam Email: bidyutcdeka@aau.ac.in			
Rapporteur I Dr. V.S. Basheer, ICAR-NBFGR	Rapporteur II: Dr. Miriam Paul Sreeram, ICAR-CMFF			
Speaker Dr. Ram Krishna Pal Former Director ICAR-NRC on Pomegranate Sholapur, Maharashtra Email: rkrishnapal@gmail.com	Topics Keynote Lecture Application of Sensors, New Molecules and Smart Packaging in PHM of Horticultural Crops	Duration 30 min		
Dr. T. John Zachariah Former Director and Principal Scientist ICAR-IISR, Kozhikode Email: zacjohntj@gmail.com	Invited Lecture Potential for Development of Functional Food from Horticultural Crops	20 min		
Dr. R.T. Patil Chairman Benevole Welfare Society for Post-Harvest Technology Chief Technical Adviser-Innovations Tanusha Foods & Beverages Pvt. Ltd. Bhopal Email: ramabhau@gmail.com	Invited Lecture (Recorded) Novel bio-molecules from horticultural crops and their role in therapeutics and health benefits	20 min		
Dr. Anindita Paul Scientist ICAR- CTRI Rajahmundry Email: aninditapaul20@gmail.com	Session Presentation Response surface methodology and Genetic Algorithm guided ultrasonication based resin assisted purification of anthocyanin	15 min		
Discussion		15 min		
Co-Chairs' Remarks		5 min		