

Horticulture for Health, Livelihoods and Economy

Programme

Chandra Shekhar Azad University of Agriculture and Technology Kanpur, Uttar Pradesh

November 18-21, 2021

Organized by





9th Indian Horticulture Congress-2021

Programme Summary

Inaugural Session (10.00-11.30 hrs.) IAHS Foundation Day Lecture (12.00-13.00 hrs.)

Day 1, November 18, 2021
Session I : Thematic Session on International Year of Fruits and Vegetables with focus on Nutrition and Health (14.00-15.45 hrs.)
Session II : Management of Biotic and Abiotic Stresses (15.45-17.30 hrs.)
Annual General Body Meeting of IAHS (18.00-19.00 hrs.)
Day 2, November 19, 2021
Session III : Unexploited/ Underexploited Crops (09.30-11.15 hrs.)
Session IV : Wasteland Utilization through Horticulture (09.30-10.30 hrs.) (Hall B)
Session V(a) : Genetic Enhancement and Next Generation Breeding Strategies (11.15-13.00 hrs.)
Session V(b) : Genetic Enhancement and Next Generation Breeding Strategies (11.15-13.15 hrs.) (Hall B)
Session VI : Crops for Round the Year Production (14.15-15.15 hrs.)
Session VII : Improving Livelihoods through Technological interventions/ Production Technologies in Horticulture (15.15-18.15 hrs.)
Day 3, November 20, 2021
Session VIII : Rootstocks and Planting Material (09.30-11.10 hrs.)
Session IX : Exploiting Alternate Production Systems for Profitability (11.10-13.00 hrs.)
Session X : Post-harvest Management and Value Addition (14.00-16.00 hrs.)
Session XI : New Initiatives in Produce Management (16.00-17.30 hrs.)
Cultural Programme (18.30-19.30 hrs.)
Day 4, November 21, 2021
Session XII : Elocution contest on "Fruits and Vegetables are the safest source of Nutrition and maintaining sound Human Health" (10.00-13.00 hrs.)
Session XIII : Farmers-Scientists Interface (10.30-13.00)
Theme: Next Generation Regeneration Horticulture: Technological and R&D Needs/ Policy Gaps
Valedictory Function (14.30-16.00 hrs.)
Day 5, November 22, 2021
Field Visit (09.00-17.00 hrs.)
Day 2 & 3: November 19-20, 2021 Schedule for Online Poster Sessions



9th Indian Horticulture Congress-2021 Horticulture for Health, Livelihoods and Economy

Venue : Kailash Bhawan Chandra Shekhar Azad University of Agriculture and Technology, Kanpur, Uttar Pradesh

November 18-21, 2021



Day 1: November 18, 2021

Registration of Delegates

Time: 08.00-09.45 hrs. (Outside the Venue)

Venue: Kailash Bhawan, CSA University of Agriculture and Technology, Kanpur

Inaugural Session

Time: 10.00-11.30 AM

09.58 hr	Arrival of Guests in the Auditoriun	n
10.00-10.05 hr	Welcome of Guests with Bouquet	
10.05-10.10 hr	Rastra Geet & Lighting of Lamp	
10.10-10.15 hr	Welcome Address	Dr D.R. Singh
		Vice Chancellor, CSAUA&T, Kanpu
10.15-10.20 hr	About the Congress	Dr S.K. Singh
		Vice President, Indian Academy o Horticultural Sciences, New Delh
10.25-10.32 hr	Address by the President, IAHS	Dr K.L. Chadha
		President Indian Academy o Horticultural Sciences, New Delh
10.32-10.40 hr	Address by Guest of Honour	Smt. Neelima Katiyar
		Hon'ble State Minister, Highe Education, Science and Technology Govt. of Uttar Pradesh
10.40-10.42 hr	Release of Publications	Smt. Anandiben Patel
	Souvenir of the 9th Indian Horticulture Congress-2021	Ho'nble Governor, Uttar Pradesh
	• Policy Paper, IAHS, New Delhi	
	Organic Growers	
	• Floriculturists open cultivation	
10.42-10.55 hr	Inaugural Address	Smt. Anandiben Patel
		Hon'ble Governor, Uttar Pradesh
10.55-10.59 hr	Vote of Thanks	Dr H.G. Prakash
		Local Organizing Secretary and Director Research, CSAUA&T, Kanpur
10.59-11.00 hr	National Anthem	

After Inaugural	Session	
11.05-11.25 hr	Distribution of Awards & Honors	
	Release of Publications	
	Conferment of Awards	By Guest of Honour
	Honorary Fellowship	Smt. Neelima Katiyar
	Shiva Shakthi Life Time Achievement Award	Hon'ble State Minister, Higher Education, Science
	• Sh. Girdhari Lal Chadha Memorial Medal in Fruit Science	and Technology, Govt. of Uttar Pradesh
	Dr Kirti Singh Medal in Vegetable Science	Citation to be read by
	Dr Manmohan Attavar Memorial Medal in Floriculture	Dr Balraj Singh Vice President, Indian
	• Dr J.C. Anand Memorial Medal in Post-harvest Technology	Academy of Horticultural Sciences, New Delhi
	Sh. D.P. Ghosh Memorial Young Scientist Award	
	• Dr B.R. Barwale Best Young Researcher Award	
	Best Research Paper Award (Indian Journal of Horticulture)	

(HIGH TEA : 11.30-11.55 hrs.)

IAHS	Foundation	Dav	/ Lecture
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12.00-13.00 hrs. Chair: Dr N.P. Singh, Chairman, Commission on Agricultural Costs and Prices, MoAFW, New Delhi

Day Lecture Fruit and Vegetable Markets	Dr M. Angamuthu, IAS Chairman, Agricultural Processed Food and Exports Development Authority, New Delhi
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(LUNCH : 13.00 -14.00 hrs.)

Day 1: November 18, 2021 Time: 14.00-15.45 hrs. Venue: Kailash Bhawan (Hall A), CSAUA&T, Kanpur

Session I

Thematic Session on International Year of Fruits and Vegetables with focus on Nutrition and Health

12 min.	Lead	Global and national horticulture scenario including horticulture development programme and their implications on health and nutritional security	Dr S.K. Malhotra	Agriculture Commissioner, Ministry of Agriculture & Farmers Welfare, Govt. of India, Krishi Bhawan, New Delhi - 110007
12 min.	Lead	Bio-fortification of horticultural crops for nutrition and health	Dr T.K. Behera	Director, ICAR-Indian Institute of Vegetable Research, Varanasi - 220005 ,U.P.
12 min.	Lead	Tuber crops for nutrition and health	Dr M.N. Sheela	Director, Central Tuber Crops Research Institute, Sreekariyam P.O., Thiruvananthapuram - 695017, Kerala
12 min.	Lead	Micro-greens: emerging super food for health and wellbeing	Dr Gyan Prakash Mishra	Principal Scientist, Division of Genetics, ICAR-IARI, New Delhi 110 012
12 min.	Lead	Conserving diversity of underutilized fruits for health and nutrition through community participation: a dynamic approach	Dr S.K. Malik	Principal Scientist, ICAR- National Bureau of Plant Genetic Resources, Pusa Campus, New Delhi-110 012
5 min.	Oral	Potatoes for food and nutrition	Dr Brajesh K. Singh	ICAR-Central Potato Research Institute, Shimla, H.P.
5 min.	Oral	Possibilities for developing bioactive-compound rich mango cultivars	Dr Ashish Yadav	ICAR-Central Institute for Subtropical Horticulture, Rehmankhera P.O. Kakori, Lucknow – 227107, Uttar Pradesh

5 min.	Oral	Phenolic profiling of phalsa (<i>Grewia asiatica</i> L.) using a high-resolution quadrupole time of flight LCMS	Dr Tanmay Kole	ICAR Research Complex For Eastern Region, ICAR Parisar, P.O.: Bihar Veterinary College, Patna-800 014, Bihar
5 min.	Oral	Fruits in human nutrition and health	Dr Amit K. Goswami	Division of Fruits and Horticultural Technology, ICAR-IARI, New Delhi 110012
5 min.	Oral	Promoting fruits, vegetable and human health	Dr Abha Singh	Department of Psychology, P.P.N. College, Kanpur
5 min.	Oral Virtual	Can the bananas (banana & plantain) be the panacea for India's hidden hunger?	Dr Ramajayam Devarajan	ICAR-NRC Banana, Thogamalai Road, Thayanur Post, Tiruchirapalli - 620 102, Tamil Nadu
5 min.	Oral Virtual	Development of nutrient rich cauliflower for better public health and nutrition	Dr Shrawan Singh	Division of Vegetable Sciences, ICAR-IARI, New Delhi -110012

Day 1: November 18, 2021 Time: 15:45 to 17.30 hrs. Venue: Kailash Bhawan (Hall A), CSAUA&T, Kanpur

Session II Management of Biotic and Abiotic Stresses

12 min.	Lead	Recent development for management of <i>Fusarium</i> wilt in banana with reference to TR-4	Dr S. Uma	Director, ICAR-National Research Centre of Banana, Thogamalai Road, Thayanur, Tiruchirapalli-620102, Tamilnadu
12 min.	Lead	Latest developments in disease management of pomegranate	Dr Jyotsna Sharma	Principal Scientist, ICAR - National Research Center on Pomegranate, NH-65, Solapur- Pune Highway, Kegaon, Solapur - 413 255, Maharashtra
12 min.	Lead	Risk to mango production from newly emerging diseases and disorder	Dr P.K. Shukla	Pr. Scientist, Division of Crop Protection, ICAR-Central Institute for Subtropical Horticulture, Rehmankhera P.O. Kakori, Lucknow–227107, Uttar Pradesh
10 min.	Lead	Microbes mediated plant healthcare in horticultural crops : New paradigms	Dr P. Bora	Coordinator, Biopesticides Research and Development, Department of Plant Pathology, Assam Agriculture University, Jorhat-785013, Assam
5 min.	Oral	Banana fusarium wilt Tropical Race 4 management in the subtropics	Dr T. Damodaran	ICAR-CSSRI, Regional Research Station, Lucknow-226002, Uttar Pradesh
5 min.	Oral	Successful Bio-control of Coconut Slug caterpillar (<i>Macroplectra nararia</i>) with potential parasitoid <i>Pediobius imbrues</i> (Hymenoptera: Eulophidae) in Andhra Pradesh	Dr Nagulapati Chalapathi Rao	Dr YSR Horticultural University, Horticultural Research Station, Ambajipeta - 533214 East Godavari District, Andhra Pradesh
5 min.	Oral	Screening of genotypes of Makhana (<i>Euryale ferox</i> Salisb.) against insect and gastropod pests and yield potential	Dr Paras Nath	Bihar Agricultural University, Sabour -BPS Agricultural College, Purnea-854302, Bihar

5 min.	Oral	Cashew Protect: An Artificial Intelligence (AI) based website and app for identification of pests diseases and nutrient deficiencies in Cashew	Dr Mohana G.S.	ICAR- Directorate of Cashew Research, Puttur - 574 202, Dakshina Kannada, Karnataka
5 min.	Oral	Screening and validation for Tomato Leaf Curl New Delhi Virus (ToLCNDV) resistance in bitter gourd (<i>Momordica</i> <i>charantia</i> L.) germplasm	Dr Gograj Singh	Division of Vegetable Science ICAR-Indian Agricultural Research Institute (IARI) Pusa, New Delhi-110012
5 min.	Oral	Genetic and transcriptome -based study for improvement of okra (<i>Abelmoschus esculentus</i> L.) against Bhindi yellow vein mosaic virus (BYVMV)	R.K. Yadav	Division of Vegetable Science, ICAR-Indian Agricultural Research Institute, New Delhi-110012
5 min.	Oral	Bio-efficacy of granular insecticides against white grub (<i>Holotrichia</i> spp.) in tulip (<i>Tulipa gesneriana</i> L.) under temperate condition of Kashmir	Dr Abu Manzar	Division of Entomology, Sher-e-Kashmir University of Agricultural Sciences and Technology -Kashmir, Shalimar Campus, Srinagar- 190025, Jammu and Kashmir

Management of Biotic and Abiotic Stresses

Online Oral Presentation (Hall B)

November 18, 2021; Time: 15:00 to 15.45 hrs.

5 min.	Oral	Preference of Fruit Flies Bactrocera spp. in Relation to Size and Ripeness of Intact and Fallen Mango Fruits	Dr Chandra- sekaran, M.	Horticultural College and Research Institute for Women (TNAU), Navalur Kuttapattu Trichy - 620 027; Tamil Nadu
5 min.	Oral	Seasonal Incidence of Leaf Mite Panonychus citri M. on Citrus Citrus aurantifolia C.	Dr Soundararajan R.P.	Horticultural College and Research Institute for Women (TNAU), Navalur Kuttapattu, Trichy - 620 027, Tamil Nadu
5 min.	Oral	Evaluation of IPM modules for management of fruit fly in bitter gourd	Dr Arundhati Sasmal	RRTTS (Coastal Zone), OUAT Bhubaneswar, Odisha
5 min.	Oral	Identification of host-plant resistance and genetics of Fusarium wilt (Fw) gene in wild pea (<i>Pisum</i> <i>sativum</i> ssp. elatius)	Dr Brij Bihari Sharma	Division of Vegetable Science, ICAR-Indian Agricultural Research Institute (IARI), Pusa, New Delhi-110012

5 min.	Oral	Identification of novel source for Fusarium wilt resistance in brinjal and genetic analysis of resistance	Partha Saha	Division of Vegetable Science ICAR-Indian Agricultural Research Institute (IARI) Pusa, New Delhi-110012
5 min.	Oral	Effect of <i>Trichoderma</i> spp. on growth promotion yield and storability of Onion	Dr Ram Dutta	ICAR-DOGR, Rajgurunagar, Pune-410505, Maharashtra
5 min.	Oral	Morpho-anatomical and biochemical assay of onion cultivars in relation to <i>Thrips</i> <i>tabaci</i> Lindeman infestation		School of Agriculture, ITM University, Gwalior- 475 001, Madhya Pradesh

18.00-19.00 hrs.

Annual General Body Meeting of IAHS

(DINNER : 19.30-21.00 hrs.)

Day 2: November 19, 2021 Time: 9.30-11.15 hrs.

Venue: Kailash Bhawan (Hall A), CSAUA&T, Kanpur

Session III Unexploited/ Underexploited Crops

12 min.	Lead	Underexploited arid fruits and vegetables and their role in human nutrition	Dr P.L. Saroj	Director, ICAR- Central Institute for Arid Horticulture, Sri Ganga Nagar Highway, Beechwal, Bikaner-334006 Rajasthan
12 min.	Lead	Potential unexploited fruits for combating malnutrition from North Eastern Region	Dr B.N. Hazarika	Dean, College of Horticulture and Forestry & College of Agriculture, CAU, Pasighat- 791102, Arunachal Pradesh
12 min.	Lead	Emerging potential new generation fruit crops- associated challenges and perspectives	Dr G. Karunakaran	Principal Scientist & I/c Head, Central Horticultural experiment Station, Hirehalli-572 168, Karnataka
10 min	Lead	Potential un/underexploited horticultural crops for temperate region	Dr M.K. Verma	Principal Scientist, Division of Fruits & Horticultural Technology ICAR-Indian Agricultural Research Institute Pusa Campus, New Delhi 110012
10 min.	Lead	Potential un/underexploited horticultural crops for cold- arid region	Dr T. Stobdon	Head, Horticulture Division of Defence Institute of High Altitude Research, Ladakh
5 min.	Oral	Nutraceutical: present status and prospects of underutilized citrus fruits	Dr Dinesh Kumar	ICAR-Central Citrus Research Institute, Nagpur, Maharashtra
5 min.	Oral	Potential of blue berries in India	Dr N.D. Negi	CSK Himachal Pradesh Krishi Vishwavidyalaya, Palampur- 176 062, Himachal Pradesh
5 min.	Oral	Underexploited horticultural crops of North-East India: issues, concerns and future prospective	Dr T.K. Hazarika	Department of Horticulture, Aromatic & Medicinal Plants, School of Earth Science and Natural Resources Management, Mizoram University, Aizawl- 796004, Mizoram

5 min.	Oral	Genetic diversity studies in avocado (<i>Persea americana</i> M.) accessions of South India for morphological and biochemical characters	Dr Muralidhara B M	Division of Fruit Science, ICAR-Indian Institute of Horticultural Research, Hessaraghatta Bengaluru-560 089, Karnataka
5 min.	Oral	Enhancing the wetland productivity through exploiting genetic diversity in Makhana (<i>Euryale ferox</i> Salisb.)	Dr Anil Kumar	Bihar Agricultural University, BPS Agricultural College, Purnea-854302, Bihar
5 min.	Oral	Study on morphometric traits and genetic barcoding of Velvet bean (<i>Mucuna</i> <i>pruriens</i> (L.) DC. Var. Pruriens	Dr J. Shankara- swamy	Sri Konda Laxman Telangana State Horticultural University, College of Horticulture, Mojerla, Maddigatla-509382, Wanaparthy Telangana
5 min.	Oral	Impact of different spacing on production of pole type lima bean (<i>Phaseolus lunatus</i> L.) with intercropping of brinjal crop	Dr Sanjay Kumar	Krishi Vigyan Kendram, Farukhabad CS Azad Univ of Agri & Technology, Kanpur 208 002, Uttar Pradesh
5 min.	Oral	Evaluation of Heliconia genotypes for commercial exploitation in humid tropics of Andaman Island	Dr V. Baskaran	ICAR-Central Island Agricultural Research Institute, Port Blair-744101, Andaman and Nicobar Islands

Online Oral Presentation (Hall B)

November 18, 2021; Time: 16:00 to 16.45 hrs.

5 min.	Oral	Approaches for enhancing yield and quality of dragon fruit in eastern tropical region of India	Dr Kundan Kishore	Central Horticultural Experiment Station (ICAR-IIHR), Aiginia, Bhubaneswar-751019, Odisha
5 min	Oral	Effect of artificial pollination in fruiting of dragon fruit (<i>Hylocereus</i> sp.) under tropical Island conditions	Dr K. Abirami	ICAR-Central Island Agricultural Research Institute, Port Blair-744101, Andaman and Nicobar Islands
5 min	Oral	Influence of potassium on mineral acquisition fruit quality and enzymatic activity in dragon fruit (Selenicereus monacanthus)	Mrs. Ankita Sahu	ICAR-Central Institute for Women in Agriculture, Bhubaneswar-751003, Odisha
5 min.	Oral	Morphological and biochemical characterization of Garcinia fruits of Assam	Dr Bornali Gogoi	College of Horticulture, Assam Agricultural University, Jorhat, Jorhat-785013, Assam

5 min.	Oral	Boon for wastelands: Henna (<i>Lawsonia inermis</i> L.)- a potential crop for arid zone	Dr Dheeraj Singh	Programme Coordinator, Krishi Vigyan Kendra (CAZRI), Pali, Marwar-306401, Rajasthan
5 min.	Oral	Tropical tuber vegetables in India and their commercial propagation techniques	Dr Mangaldeep Sarkar	College of Agriculture, Navsari Agricultural University, Waghai-394730, The Dangs, Gujarat
5 min.	Oral	Studies on small fruited bitter gourd <i>Momordica</i> <i>charantia</i> L. var. muricata (Willd.) Chakrav. for anti- diabetic activity	Dr Neelavathi R.	Tamil Nadu Agricultural University, Tindivanam – 604 002, Villupuram District. Tamil Nadu

Day 2: November 19, 2021 Time: 09.30 to 10.30 hrs.

Venue: Conference Room (Hall B), CSAUA&T, Kanpur

Session IV

Wasteland Utilization through Horticulture

12 min.	Lead	Exploitation of waste land for horticultural crops in India	Dr M. Madhu	Director, ICAR-Indian Institute of Soil and Water Conservation, 218, Kaulagarh Road, Dehradun-248195, Uttarakhand
12 min.	Lead	Degraded and waste land utilization through Horticulture crops	Dr O.P. Aiswath	Principal Scientist, ICAR- National Research centre on seed spices, Tabiji, Ajmer-305206 Rajasthan
12 min.	Lead	Opportunities for exporting pomegranate cultivation in wasteland	Dr R.A. Marathe	Director, National Research Centre for Pomegranate, NH - 65, Solapur-Pune Highway, Kegaon, Solapur-413255, Maharashtra
12 min	Lead	Urban Tree Plantation in Degradable Land for Sustainable Eco-system	Dr S.S. Sindhu	Head, Division of Floriculture & Landscaping and Coordinator, School of Horticulture, ICAR- Indian Agricultural Research Institute (Pusa Campus), New Delhi-110012
5 min.	Oral	Tamarind : A game changer in wastelands of South India	Mrs. Vimala Bathineni	Horticulture Research Station, Anantapuramu, Dr YSRHU, Ramnagar, Ananatapuramu -515004, AP
5 min	Oral	Developing salt tolerant rootstocks in fruit crops for waste land utilisation	Dr Anshuman Singh	Division of Crop Improvement & Biotechnology ICAR- Central Institute for Subtropical Horticulture, Rehmankhera, Lucknow-226101, Uttar Pradesh

	Day 2: November 19, 2021 Time: 11.15-13.00 hrs. Venue: Kailash Bhawan (Hall A), CSAUA&T, Kanpur			
	G	enetic Enhanceme	ion V(A) nt and Ne g Strategie	
12	Lead Virtual	Gene discovery and its application in genomics- assisted breeding in horticultural crops	Dr N.K. Singh	B.P Pal Chair, ICAR-National Institute of Plant Biotechnology, New Delhi 110 012
12	Lead Virtual	Genetic manipulation using gene editing techniques and their role in precision breeding of horticultural crops in India	Dr C.S. Prakash	Dean, College of Arts and Sciences (CAS), Tuskegee University, USA
12	Lead	Aroma biology and livelihood security	Dr Ajit Sasany	Director, ICAR-National Institute of Plant Biotechnology, Pusa campus, New Delhi
12	Lead Virtual	Biotechnological and Genomic advancements in improvement of fruit crops	Dr K. Ravishankar	Principal Scientist, Division of Basic Sciences, ICAR-IIHR, Hessaraghatta Lake Post, Bengaluru-560 089, Karnataka
12	Lead	Breeding next generation spices for nutraceuticals and industrial use	Dr D. Prasath	Principal Scientist (Hort.), ICAR-Indian Institute of Spices Research, PB No. 1701, Marikunnu Post, Kozhikode, Kerala
10	Lead Virtual	Biotechnological advancement in the improvement of Plantation crops	Dr M.K. Rajesh	Principal scientist, ICAR- Central Plantation Crops Research Institute, Kasaragod, Kerala
10	Lead	Molecular control of flowering regulation of mango	Dr Bal Krishna	Senior Vice President, M/s Jain Irrigation System Ltd., Jalgaon, Maharashtra
10	Lead	Papaya Breeding-Current strategies & opportunities	Dr Jai Prakash	Principal Scientist (Hort), Division of Fruits and Hort. Technology, ICAR-IARI, New Delhi 110012
10	Lead	Indian Orchid Germplasm: Conservation and Sustainable Utilization	Dr. Ram Pal	Director, ICAR-NRC for Orchids, Pakyong-737106, East Sikkim, Sikkim

Day 2: November 19, 2021 Time: 11.15-13.15 hrs.

Venue: Conference Room (Hall B), CSAUA&T, Kanpur

Session V(B)

Genetic Enhancement and Next Generation Breeding Strategies

5 min	Oral	Advances in Banana breeding	Dr S. Backiyarani	ICAR-National Research Centre of Banana, Thogamalai Road, Thayanur, Tiruchirapalli-620102, Tamilnadu
5 min.	Oral	Radiation Induced Mutation to Develop Dwarf and Precocious Lines of Papaya (<i>Carica papaya</i> L.)	Dr Kanhaiya Singh	Principal Scientist, Division of Fruits and Horticultural Technology ICAR-IARI New Delhi 110012
5 min.	Oral	Breeding for Novel Traits in cashew for enhancing farm income	Dr J. Dinakara Adiga	Principal Scientist (Hort-FS), ICAR-Directorate of Cashew Research, Puttur-574202, Karnataka
5 min.	Oral	Genomic wide identification and characterization of micro RNAs for low nitrogen stress in potato	Dr Jagesh Tiwari	ICAR-Central Potato Research Institute, Shimla - 171 001, Himachal Pradesh
5 min.	Oral	DNA barcoding and RNA secondary structure predictions in brinjal and its wild relatives	Dr Gobinda Ch Acharya*	Central Horticultural Experiment Station, ICAR-IIHR Bhubaneswar-751019, Odisha
5 min.	Oral	Genetic Improvement of Chilli for Improved Yield Realization and Consumer Preference	Rajesh Kumar	ICAR-Indian Institute of Vegetable Research, PB No. 01, P.O.–Jakhini (Shahanshahpur), Varanasi 221305
5 min.	Oral	Genetic analysis and identification of SSR markers associated with powdery mildew resistance in bitter gourd (<i>Momordica charantia</i> L.)	Dr Prasanth K.	Kerala Agricultural University, KAU P.O., Vellanikkara, Thrissur-680656, Kerala
5 min.	Oral	Optimising protocol for successful induction of haploids in petaloid types male sterile genotypes of African marigold (<i>Tagetes</i> <i>erecta</i> L.) using <i>in vitro</i> gynogenesis approach	Dr Reeta Bhatia	Senior Scientist (Horticulture- Floriculture), Division of Floriculture and Landscaping, ICAR-Indian Agricultural Research Institute, New Delhi 110012

5 min.	Oral	Development of shrunken2 and sugary1 based sweet corn through genomics- assisted breeding	Dr Rashmi Chhabra	Maize Genetics Unit, Division of Genetics, ICAR-IARI, Pusa Campus, New Delhi-110012
5 min.	Oral	Genetic improvement in China aster [<i>Callistephus</i> <i>chinensis</i> (L.) Nees]	Rajiv Kumar	ICAR-Indian Institute of Horticultural Research, Hesaraghatta Lake Post, Bengaluru 560089, Karnataka
5 min.	Oral	Genetic diversity analysis and population structure in oil palm germplasm using SSR markers	Dr Bhagya HP	ICAR-Indian Institute of Oil Palm Research, Pedavegi-534475
5 min.	Oral	Priority traits identification and utilization to develop next generation planting material in oil palm (<i>Elaeis</i> <i>guineensis</i> Jacq.)	Dr Anitha Pedapati	ICAR-Indian Institute of Oil Palm Research, Pedavegi-534450, West Godavari Dt., Andhra Pradesh New Delhi-110012, India
5 min.	Oral	Ploidy manipulation: an integral part for the genetic enhancement in citrus	Dr Awtar Singh	Division of Fruits and Horticultural Technology ICAR- IARI, New Delhi 110012
5 min	Oral	Construction of genetic linkage map using bi-parental progeny population of Amrapali and Sensation	Dr Manish Srivastav	Division of Fruits and Horticultural Technology, ICAR-IARI, New Delhi 110012
5 min.	Oral	Genetic and genomic resources in cucurbit crops	Dr Manjusha Verma	ICAR-National Bureau of Plant Genetic Resources, New Delhi 110 012
5 min.	Oral	Comparison of flow cytometry stomatal traits and morpho- taxonomical characters for differentiating Ney Poovan diploid from its autotetraploids	Mr. Arjun Singh	ICAR-National Research Centre of Banana, Thogamalai Road, Thayanur, Tiruchirapalli-620102, Tamilnadu
5 min.	Oral	De novo transcriptome analysis of roots of grape rootstock 110R in response to salt stress	Dr Anuradha Upadhyay	ICAR-National Research Centre for Grapes, PB No.3, Manjari Farm PO, Solapur Road, Pune-412 307, Maharashtra
5 min.	Oral	Evaluation and identification of promising genotypes for important fruit characters in pomegranate	Dr Shilpa Parashuram	ICAR-National Research Centre on Pomegranate, Solapur-Pune Highway, Kegaon, Solapur-413 255, Maharashtra

5 min.	Oral	Molecular markers linked to bacterial wilt (<i>Ralstonia</i> <i>solanacearum</i>) resistance gene loci in eggplant (<i>Solanum melongena</i> L.)	Dr Pandiyaraj P.*	Kalasalingam Academy of Research and Education, Anand Nagar, Krishnankovil, Virudhunagar-626128, Theni, Tamil Nadu
5 min.	Oral	Studies on growth analysis traits and <i>AcFT</i> gene expression for bulb yield in <i>kharif</i> onion	Dr Sabina Islam	Division of Vegetable Science ICAR-IARI, New Delhi-110012
5 min.	Oral	From germplasm characterization to functional genomics-A holistic approach for tropical carrot (<i>Daucus</i> <i>carota</i> sub spp. sativus) improvement	Dr Sarvamangala Cholin*	College of Horticulture, University of Horticultural Sciences, Bagalkote -587103 Karnataka
5 min.	Oral	Innate defense mechanism against chilli leaf curl disease in resistant hot peppers	Dr Manisha Mangal	Division of Vegetable Science, ICAR-IARI, New Delhi 110 012
5 min.	Oral	Degree of genetic determination and expected genetic gain for quantitative traits in luffa gourd (<i>Luffa</i> <i>cylindrica</i> L.) genetic resources of Assam	Dr Ira Sarma	Assam Agricultural University, Jorhat-785013, Assam

(LUNCH : 13.15-14.15 hrs.)

Day 2: November 19, 2021 Time: 14.15 to 15.15 hrs.

Venue: Kailash Bhawan (Hall A), CSAUA&T, Kanpur

Session VI

Crops for Round the Year Production

12 min.	Lead	Technological intervention for year-round production of vegetable crops	Dr Bhopal Singh Tomar	Joint Director (Extension), ICAR-IARI, New Delhi, 110012
12 min.	Lead	Management of surplus and scarcity of onion in the country	Dr P.K. Gupta	Director, National Horticultural Research and Development Foundation, Janakpuri, New Delhi-110075
12 min.	Lead	Round the year production of cole and root vegetable crops	Dr Pritam Kalia	Former Head, Division of Vegetable Science, ICAR- IARI, New Delhi
5 min.	Oral	Riverbed cultivation for off season production	Dr Sudhakar Pandey	ICAR-Indian Institute of Vegetable Research, Varanasi 220 005, Uttar Pradesh
5 min.	Oral	Genetic diversity and improvement in onion for wider adaptability	Dr Amar Jeet Gupta	ICAR-Directorate of Onion and Garlic Research, Rajgurunagar-410505, Pune Maharashtra
5 min.	Oral	Study of photosensitivity and photosynthetic efficiency in onion varieties for cultivating round the year under climate change scenario	Dr Kiran P. Bhagat	ICAR-Directorate of Floricultural Research, Pune – 411005, Maharashtra

Day 2: November 19, 2021 Time: 15.15 to 18.00 hrs.

Venue: Kailash Bhawan (Hall A), CSAUA&T, Kanpur

Session VII

Improving Livelihoods through Technological interventions/ Production Technologies in Horticulture

12 min.	Lead	Soil nutrient enrichment in fruit orchards through recycling of biomass: Impacts on plant nutrition and productivity	Dr Bikash Das	Principal Scientist, Research Centre, ICAR Research Complex for eastern Region, Plandu, Namkum, Ranchi- 834010, Jharkhand
12 min.	Lead	Refining mango rejuvenation technology for enhanced success and profitability	Dr Sushil Kumar Shukla	ICAR- Central Institute for Subtropical Horticulture, Rehmankhera, Kakori, Lucknow-226101
12 min.	Lead	Improved production technologies in vegetable crops	Dr S.N.S. Chaurasia	Principal Scientist & Head, Division of Vegetables Production, ICAR- Indian Institute of Vegetables Res., Varanasi-220005, Uttar Pradesh
12 min.	Lead	Recent advances in potato production technology	Dr Manoj Kumar	Joint Director, ICAR-Central Potato Research Institute, Regional Station Modipuram, Meerut-250110, Uttar Pradesh
12 min.	Lead Virtual	Floriculture development: the future pathway	Dr K.V. Prasad	Director, ICAR-Directorate of Floricultural Research, Shivajinagar, Pune, Maharashtra 411005
12 min.	Lead	Addressing soil fertility and plant nutrition in horticultural crops: Paradigm shifts	Dr A.K. Srivastav	Principal Scientist (Soil Science), ICAR-Central Citrus Research Institute, Amravati Road, Nagpur 440033, Maharashtra
12 min.	Lead	Coconut based farming/ cropping systems: recent developments in system productivity and carbon sequestration	Dr H.P. Maheshwa- rappa	Director Research, University of Horticultural Sciences, Bagalkote-587104 (Karnataka), India
5 min.	Oral	Raised bed planting system in Citrus- A new concept	Dr Raj Kumar Sonkar	Principal Scientist, ICAR- Central Citrus Research Institute, Amravati Road, Nagpur-440033 Maharashtra

5 min.	Oral	Innovative energy and water harvesting model for enhancing water productivity of pomegranate in arid regions	Dr Akath Singh	Division of Integrated Land use Management and Farming System, ICAR-Central Arid Zone Research Institute, Jodhpur- 342003, Rajasthan
5 min.	Oral	Fertigation scheduling based on phenophases for productivity and quality of HDP mango	Dr Dinesh Kumar	ICAR-Central Institute for Subtropical Horticulture, Rehmankhera, Kakori post, Lucknow-226101 Uttar Pradesh
5 min.	Oral	Climate change risks and resilience strategies in citrus	Dr A.D. Huchche	ICAR-Central Citrus Research Institute (formerly National Research Centre for Citrus), Amravati Road, Nagpur-440033 Maharashtra
5 min.	Oral	Soil nutrient index: an index for characterizing the unbalancing of orchard nutrition	Dr Tarun Adak	ICAR-Central Institute for Subtropical Horticulture, Rehmankhera, Lucknow- 226101, Uttar Pradesh
5 min.	Oral	Studies on the response of different guava (<i>Psidium</i> <i>guajava</i> L.) varieties to different mulches and pruning times for quality parameters under ultra high density planting systems	Dr Ghanshyam Sahu	Department of Fruit Science, CoA, IGKV, Raipur-492012 Chhattisgarh
5 min.	Oral	Enhancing yield and quality in apple through tall spindle canopy architectural system under high density plantation	Dr Javid Mir	ICAR-CITH, Srinagar-191201, Jammu and Kashmir
5 min.	Oral	Tree Physiology and Fruiting of Litchi cv. China affected by bearing regulated chemicals and girdling	Dr Sanjay Kumar Singh	ICAR- National Research Centre on Litchi, Muzaffarpur- 842002, Bihar/ ICAR-CISH, Lucknow
5 min.	Oral	Impact of INM in coconut based high density cropping system in East Coast region of Andhra Pradesh	Dr B.V.K. Bhagavan	Horticultural Research Station Ambajipeta - 533 214, East Godavari District, Andhra Pradesh
5 min.	Oral	Self-sustainable eco- conscious and low-cost strawberry (<i>Fragaria x</i> <i>ananassa</i>) farming model using local resources for small and marginal farmers in the mid-hills of Meghalaya	Dr Mayengbam Premi Devi	College of Agriculture, Central Agricultural University (Imphal), Kyrdemkulai-793105, Meghalaya

5 min.	Oral	Some horticultural technologies for improving farm productivity and profit earning of small and marginal farmers under subtropical area	Naresh Babu	ICAR-Central Institute for Subtropical Horticulture, Rehmankhera, Lucknow- 226101, Uttar Pradesh
5 min.	Oral	Impact of bee pollination in mango under low hill conditions of Nagaland	Dr Avinash Chauhan	Dept. of Entomology, SASRD, Nagaland University, Medziphema, Nagaland
5 min.	Oral	Effect of flower regulation on biotic and abiotic stress management in pomegranate (<i>Punica granatum</i> L.) under hot arid climate	Dr Ramesh Kumar	ICAR-Central Institute for Arid Horticulture, Beechwal, Bikaner-334 006, Rajasthan
5 min.	Oral	Diversified farming enterprises: A Strategy for enhanced income employment and livelihood security of mango farmers in Uttar Pradesh	Dr Ravi S.C.	ICAR-Central Institute for Subtropical Horticulture, Rehmankhera P.O. Kakori, Lucknow – 227107, Uttar Pradesh
5 min.	Oral	Technology of growth stage based fertigation and crop geometry in Cucurbitaceous crops for enhancing yield and water productivity in Eastern Hill and Plateau Region of India	Dr Bal Krishna Jha	ICAR Research Complex for Eastern Region, Farming System Research Center for Hill & Plateau Region, P.O-Rajaulatu, Plandu, Ranchi-834010, Jharkhand
5 min.	Oral	Standardization of pruning intensity for crop regulation in Pomegranate	Dr K. Dhinesh Babu	ICAR-National Research Centre on Pomegranate, NH- 65, Solapur-Pune Highway, Kegaon, Solapur-413 255, Maharashtra
5 min.	Oral	Influence of cane length and fruit thinning on the growth yield and fruit quality performance of kiwifruit	Dr Vishal Singh Rana	Department of Fruit Science, College of Horticulture, Dr Y S Parmar University of Horticulture and Forestry, Nauni, Solan- 173230, Himachal Pradesh
5 min.	Oral	Pollinators diversity: Importance challenges and researchable issue in India	Dr Kumarnag	ICAR-AICRP on Honey Bees & Pollinators, IARI, New Delhi-110012

	Improving Livelihoods through Technological interventions/ Production Technologies in Horticulture			
		Online Oral Pr	resentation (Ha	II B)
		November 19, 2021;	Time: 16:45 to	17.30 hrs.
5 min.	Oral	Classification of biotic and abiotic stresses on grape berries using transfer learning	Dr D.S. Yadav	ICAR-National Research Centre for Grapes, Manjri Farm Post, Solapur Road, Pune - 412307, Maharashtra
5 min.	Oral	Bunch improvement in banana through de handing and spray	Dr Nazimuddin Badruddin Shaikh	Zonal Agricultural Reseach Station, Pune-412 067, Maharashtra
5 min.	Oral	Autumn harvesting of Mango cv. Amrapali and its proximate analysis in the mid hills of West Kameng District in Arunachal Pradesh	Dr Anurag Bajpay	Defence Research Laboratory RDC Salari,DRDO, West Kameng, Arunachal Pradesh, DRL-DRDO, Tezpur-784501, Assam
5 min.	Oral	Role of crop and stage specific customization of nutrients in Horticultural Crops	Dr Murlee Yadav	Deepak Fertilizers and Petrochemicals Ltd., Pune
5 min.	Oral	Precision citriculture through variable fertigation rate in Nagpur mandarin (<i>Citrus reticulata</i> Blanco)	Dr D.T. Meshram	ICAR-Central Citrus Research Institute, Amravati road, Post Box No. 464, Nagpur-440033, Maharashtra
5 min.	Oral	Canopy architecture management in young mango orchards for quality fruit production	Dr Prananath Barman	ICAR- Central Institute for Subtropical Horticulture, Rehmankhera, Lucknow- 226101, Uttar Pradesh
5 min.	Oral	Studies on morphological characterization flowering and pollination behaviour for higher seed yield and quality in CMS based cauliflower (<i>Brassica oleracea</i> L. var. <i>botrytis</i> L.) hybrids	Dr Sudipta Basu	Division of Seed Science and Technology, ICAR-IARI, New Delhi 110 012
5 min.	Oral	Effect of various concentrations of boron on growth and corm yield in gladiolus	Dr Anil Kumar Singh	Department of Horticulture, Institute of Agricultural Sciences, Banaras Hindu University, Varanasi-221005, Uttar Pradesh

DINNER : 19.30 to 21.00 hrs (Hosted by Seven Star Fruits Pvt Ltd / MAHYCO)

Day 3: November 20, 2021 Time 09.30 to 11.10 hrs.

Venue: Kailash Bhawan, CSAUA&T, Kanpur

Session VIII Rootstocks and Planting Material

12 min.	Lead	An opportunity to revolutionize fruit production in India	Shri Rajendra Barwale	Chairman, Mahyco Hybrid Seeds Co. Ltd., Resham Bhavan, 4th Floor, 78, Veer Nariman Road, Mumbai- 400020 (Maharashtra)
12 min.	Lead	Revolutionizing temperate fruit cultivation through use of rootstocks	Shri Sudhir Chadha	Chadha Seed Farm, Director M/s Indo-Dutch Horticulture Technologies Pvt. Ltd. P.O. Chakalua, Distt. Nainital- 263139, Uttarakhand
12 Min	Lead	Mango and guava rootstocks: Current status and future needs	Dr S. Rajan	Director, ICAR-Central Institute for Subtropical Horticulture, Rehmankhera, Lucknow-226101, Uttar Pradesh
12 min.	Lead	Recent developments in citrus rootstocks and production of disease-free quality planting material	Dr D.K. Ghosh	Director, ICAR - Central Citrus Research Institute, Post Box No. 464, Amravati Road, Nagpur - 440033, Maharashtra
12 min.	Lead	Future opportunities for exploiting new rootstocks in grape in India	Dr R.G. Somkunwar	Director, National Research Centre for Grapes, P.B. No. 3, Manjari Farm Post, Solapur Road, Pune-412307, Maharashtra
10 min	Lead Virtual	High-volume virus-free certified planting material production in citrus : a success story of Andhra Pradesh	Dr K. Gopal	Professor and Registrar, Dr Y.S.R. Horticultural University, Venkataramannagudem- 534101, West Godavari District, Andhra Pradesh
5 min.	Oral	Quality planting material production in recalcitrant banana varieties through direct regeneration using immature male flower bud explants	Dr M.S. Saraswathi	ICAR, National Research Centre for Banana, Thogamalai Road, Thayanur (Post), Tiruchirapalli-620102, Tamil Nadu

5 min.	Oral	Production of triploids and tetraploids in commercial Citrus Scions and rootstocks by innovative <i>in vitro</i> and <i>ex</i> <i>vitro</i> propagation techniques.	Dr Vijayakumari Narukulla	ICAR, Central Citrus Research Institute, Post Box No. 464, Amravati Road, Shankar Nagar P.O., Kachimet, Nagpur-440033, Maharashtra
5 min.	Oral	Vegetable rootstocks for managing biotic and abiotic stresses	Dr Pradeep Kumar	ICAR- Central Arid Zone Research Institute, Jodhpur, 342003, Rajasthan
		Rootstocks and	d Planting M	laterial
		Online Oral Pi	resentation (Ha	II B)
		November 19, 2021;	Time: 14:30 to	15.45 hrs.
5 min.	Oral	Effect of inter-specific grafting in Solanaceous vegetables on yield and quality parameters	Dr Anant Bahadur	ICAR-Indian Institute of Vegetable Research, Post Bag No. 1, PO- Jakhini (Shahanshahpur), Varanasi – 221305 U.P.
5 min.	Oral	Impact of rootstocks on quality and nutrient status of exotic apple varieties under high density plantation	Dr Aroosa Khalil	Division of Fruit Science, Sher-e- Kashmir University of Agricultural Sciences & Technology of Kashmir, Shalimar 190025, Jammu and Kashmir
5 min.	Oral	Citrus rootstock identification by DNA- fingerprinting with InDels	Dr Ashutosh Murkute	ICAR-Central Citrus Research Institute, Amravati Road, Nagpur- 440033, Maharashtra
5 min.	Oral	<i>In vitro</i> mass multiplication through organogenesis and somatic embryogenesis of pineapple (<i>Ananas comosus</i> L.) for its area expansion in Bihar	Dr H. Mir	Department of Horticulture, Bihar Agricultural University, Sabour, Bhagalpur-813210, Bihar
5 min.	Oral	Performance of cultivated and wild species of brinjal as rootstock against bacterial wilt and effect of grafting on yield attributes	Dr Sunidhi Mishra	Deptt. of Vegetable Science, COA, Indira Gandhi Krishi Vishwavidyalaya, Raipur- 492012, Chhattisgarh
5 min.	Oral	Standardization of <i>In-vitro</i> commercial multiplication of ivy gourd (<i>Coccinia indica</i>)	Dr K. Ravindra Kumar	Dr YSRHU, Horticultural Research station, Kovvur, West Godavari District- 534350, Andhra Pradesh

Day 3: November 20, 2021 Time 11.10 to 13.00 hrs.

Venue: Kailash Bhawan, CSAUA&T, Kanpur

Session IX

Exploiting Alternate Production Systems for Profitability

12 min.	Lead	Recent advance in protected cultivation in Horticulture	Dr Balraj Singh	Former Vice Chancellor, Agriculture University, Jodhpur and Project Co-ordinator, ICAR-AICRP Honey Bee, New Delhi 110 012
12 min	Lead	Cosmic farming in horticultural crops: a ray of hope for nutrition & health benefits	Prof. R.K. Pathak	Former Director, ICAR-CISH, Lucknow, Homa Teacher & amp; Preacher, Fivefold Path Mission, pathakramkripal@ gmail.com; 094549774422
12 min.	Lead Virtual	Research strategies and future challenges in organic horticulture	Dr N. Ravisankar	Principal Scientist, ICAR - Indian Institute of Farming Systems Research, Modipuram Meerut, Uttar Pradesh
5 min.	Oral	Plant growth promoting, biochemical and antimicrobial properties of microbes isolated from various bio- formulations	Dr R.A. Ram	Central Institute for Subtropical Horticulture Rehmankhera, P.O. Kakori, Lucknow-226101, Uttar Pradesh
5 min.	Oral	Standardization of organic manures for dragon fruit in Central Dry Zone of Karnataka	Dr B. Hemla Naik	Keladi Shivappa Nayaka University of Agricultural and Horticultural Sciences, Shivamogga- 577204; Karnataka
5 min.	Oral	Effect of different organic sources of nutrients on yield and quality of cashew (<i>Anacardium occidentale</i> L.) cv. BPP-8	Dr P.K. Panda	AICRP on Cashew, College of Agriculture, OUAT, Bhubaneswar, Odisha
5 min.	Oral	Flower and fruit drop in Sikkim mandarin and their organic management practices	Dr Sudip Kumar Dutta	ICAR Research Complex for NEH Region, Sikkim Centre, Tadong, Gangtok-737102, Sikkim
5 min.	Oral	Aeroponics technology application for raising nurseries of horticulture crops through Ayurvet Pro Green Hydroponic System	Dr Dipti Rai	Ayurvet Research Foundation, Ist Floor, Unit No. 117, KM trade towers Kaushambi, Ghaziabad- 201010, Uttar Pradesh

5 min.	Oral	Technology for the vertical expansion of nursery Under protected conditions using the soilless rooting medium for increasing the number of rootstocks per unit area	Dr Wasim Hassan Raja	Central Institute of Temperate Horticulture, Srinagar Old Airfield, Srinagar Srinagar-191132, J&K
5 min.	Oral	Net house cultivation of papaya	Dr Sharath Kumar Reddy	Horticultural Research Station, Anantharajupeta, Dr YSR Horticultural University, Kadapa, Andhra Pradesh
5 min.	Oral	Studies on performance of Chrysanthemum (<i>Chrysanthemum morifolium</i> Ramat.) cultivars grown under greenhouse in the soil amended with different cynobacterial formulations.	Dr M.C. Singh	CPCT, ICAR-IARI, Pusa Campus, New Delhi - 110012
	Ехр	loiting Alternate Produ	ction Syster	ns for Profitability
		Online Oral P	resentation (Ha	II B)
		November 19, 2021;	Time: 15:45 to	16.30 hrs.
5 min	Oral	Enhancing Climate resilience of grapevine	Dr A.K. Upadhyay	ICAR-National Research Centre for Grapes, PB No. 3, Manjari Farm PO, Solapur Road, Pune- 412307, Maharashtra
5 min.	Oral	Enhancing strawberry productivity, improving fruit quality and sustainable management of land under protected condition adopting vertical production technology	Ms. Subhrajyoti Mishra	Department of Fruit Science, College of Horticulture, JAU, Junagadh- 362001, Gujarat.
5 min.	Oral	Containerized fruit culture for nutrition and income generation	Dr K.K. Srivastava	ICAR-Central Institute for Subtropical Horticulture Rehmankhera P.O. Kakori, Lucknow-227101, Uttar Pradesh
5 min.	Online	Evaluation of suitability of soilless potting media containing fly ash and press mud for indoor foliage plants	Dr Shilpa Shree KG	ICAR-DFR, College of agriculture campus, Shivajinagar, Pune-411 005, Maharashtra
5 min.	Oral	Goat based integrated farming system to enhance the productivity and profitability in coconut ecosystem	Sudhalakshmi	Coconut Research Station, Tamil Nadu Agricultural University, Aliyar Nagar- 642101, Tamil Nadu
		(LUNCH	: 13.00-14.00	hrs.)

Day 3: November 20, 2021 Time: 14.00 to 16.00 hrs.

Venue: Kailash Bhawan, CSAUA&T, Kanpur

Session X

Post-harvest Management and Value Addition

12 min.	Lead	Pre-harvest bagging for enhanced postharvest quality of commercially important fruits	Dr Ram Asrey	Principal Scientist, FS&PHT Division, ICAR- Indian Agricultural Research Institute, New Delhi-110012
12 min.	Lead	UVC-treatment for safe handling of fruits and vegetables	Dr B.V.C. Mahajan	Director, Punjab Horticultural Post- harvest Technology Centre, Punjab Agricultural University, Ludhiana-141004, Punjab
12 min.	Lead	Physiology, quality and safety of fresh-cut fruits and vegetables	Dr Sunil Pareek	Director (IQAC) and Head, Department of Agriculture & Environmental Sciences, National Institute of Food Technology Entrepreneurship & Management (NIFTEM), Kundli 131028, Sonepat, Haryana
	Lead Virtual	New development in prolonging storage of fruits and vegetables	Dr Surajit Mitra	Professor and Former Head, Post Harvest Technology, Bidhan Chandra Krishi Viswavidyalaya (BCKV) Mohanpur- 741252, Nadia, West Bengal, India
	Lead Virtual	New trends in product development and value addition	Dr Madhav Naidu	Senior Principal Scientist, SFS Department, CSIR-CFTRI, Mysore-570 020, Karnataka
	Lead Virtual	Electrical Field based non-thermal and thermal processing to extend the shelf life of fruits	Dr Brijesh Srivastava	Professor, Department of Food Engineering & Technology, Tezpur University, Tezpur-784028 Assam
	Lead Virtual	Status of referral labs for certification in horticultural produce: issues and strategies	Dr Kaushik Banerjee	National fellow & Principal Scientist, National Research Centrer for Grapes, P.O. Manjiri farm, Solapur Road, Pune- 412307, Maharashtra

5 min.	Oral	Studies on effect of different packaging materials on biochemical changes of fig (<i>Ficus carica</i> L.) cv. Brown Turkey during storage	Prof. Amayogi Kurubar	College of Agriculture, UAS Campus, Raichur, P.B. No. 24 Pin Code 584102 Karnataka
5 min	Oral	Nitric oxide treatment for postharvest quality retention of fruits	Dr Kalyan Barman	Department of Horticulture, Banaras Hindu University, Institute of Agricultural Sciences, Varanasi-221005, Uttar Pradesh
5 min	Oral	Functional characterization of modified banana starch and preparation of low glycaemic convenience foods	Dr Suresh Kumar Paramasivam	ICAR-NRC for Banana, Thogamalai Road, Trichy, 620 102 Tamil Nadu
5 min	Oral	Value addition of karonda to achieve nutritional security goals	Dr Alok Gupta	ICAR-Central Institute for Subtropical Horticulture, Rehmankhera P.O. Kakori, Lucknow-227107, Uttar Pradesh
5 min	Oral	Formulation and nutritional evaluation of immunity booster-organic soups	Dr Vinita Singh	Food Science and Nutrition Deptt., C.S. Azad University of Agriculture and Technology, Kanpur-208002, Uttar Pradesh
5 min	Oral	Nutrition evaluation of Biscuit fortified through plant resources	Dr Seema Sonkar	Food Science and Nutrition Deptt., C.S. Azad University of Agriculture and Technology, Kanpur-208002, Uttar Pradesh
5 min	Oral	Post-harvest melatonin treatment for enhancing the shelf-life of guava (<i>Psidium</i> <i>guajava</i> L.) fruits during storage	Bharati Killadi	Division of Post Harvest Management, ICAR-CISH, Rehmankhera, Lucknow-226101
5 min	Oral	Effect of pretreatments on dehydration of oyster mushroom	Priya Vashishtha	Krishi Vigyan Kendra, Hardoi, Directorate of Extension, C.S. Azad University of Agriculture & Tech., Kanpur-208002 (U.P.)

		Post-harvest Manage	ment and V	alue Addition
		Online Oral P	resentation (Ha	III B)
		November 19, 2021;	Time: 16:30 to	18.00 hrs.
5 min.	Oral	Nano Sticker- Multilayered encapsulation of 1- MCP and Hexanal as a smart delivery system to enhance the shelf life of banana	Dr Srivignesh Sundaresan	Department of Horticulture, School of Life Sciences, Central University of Tamil Nadu (CUTN), Neelakudi campus, Thiruvarur-610 005, Tamil Nadu
5 min.	Oral	X-ray imaging as a non- destructive detection technique for jelly seed disorder in mango (<i>Mangifera indica</i> L.) fruit	Dr Rama Krishna Karri	Department of Horticulture, School of Life Sciences, Central University of Tamil Nadu (CUTN), Neelakudi campus, Thiruvarur-610 005, Tamil Nadu
5 min.	Oral	Encapsulated nanofibers for ethylene scavenging in sapota fruits	Dr Shalini Rudra	Division of Food Science and Postharvest Technology, ICAR- Indian Agricultural Research Institute, New Delhi-110012
5 min.	Oral	Evaluation of skeletonizing agents for separation of leaf vein skeletons of <i>Polyalthia</i> <i>longifolia</i> var. pendula	Dr Moumita Malakar	Dept. of Horticulture & Floriculture, Central University of Tamil Nadu (CUTN), Neelakudi campus, Thiruvarur-610 005, Tamil Nadu
5 min.	Oral	Physicochemical and total carotenoid variations of fresh Khasi mandarin (<i>Citrus reticulata</i> Blanco.) fruits of Tinsukia district.	Dr Shahida Choudhury	College of Horticulture, AAU, Jorhat-785013, Assam
5 min.	Oral	Changes in qualitative nutritional and sensory profile of banana biscuits prepared from native variety of Andhra Pradesh in storage period	Dr Kondepalli Venkata Subbaiah	Krishi Vigyan Kendra, Dr Y.S.R. Horticultural University, Venkataramannagudem, West Godavari (District), Andhra Pradesh
5 min.	Oral	Development of low-fat and anthocyanin rich purple sweet potato vacuum fried chips	Dr Chintha Pradeepika	Division of Crop Utilization, ICAR-CTCRI, Thiruvananthapuram, Kerala
5 min.	Oral	Resistant starch-rich ready- to-reconstitute gruel mix from Makhana (<i>Euryale ferox</i>)	Dr Manashi Das Purkayastha	Department of Horticulture, Assam Agricultural University, Jorhat- 785013, Assam

5 min.	Oral	Influence of pre-harvest foliar application of iron on post-harvest life in gladiolus cv. Malaviya Kiran	Dr Anjana Sisodia	Department of Horticulture, Institute of Agricultural Sciences, Banaras Hindu University, Varanasi-221005, Uttar Pradesh
5 min.	Oral	Studies on preservation of Nagpur mandarin segments in sugar syrup	Dr Surendra Patil	Department of Fruit Science Dr PDKV, Akola, Akola- 444104, Maharashtra
5 min.	Oral	Enhancing growers income through adoption of DOV for raisin making in Nasik	Dr Ajay Sharma	ICAR-National Research Centre for Grapes, Farm, Solapur Road, Pune – 412307, Maharashtra
5 min.	Oral	Process time reduction for development of candied Mosambi peel	Dr Alka Joshi	Division of Food Science & Postharvest Technology, ICAR-Indian Agricultural Research Institute, Pusa Campus, New Delhi-110012
5 min.	Oral	Altering the techno- functional properties of potato powder for suitable food applications	Dr Shruti Sethi	Division of Food Science & Postharvest Technology, ICAR-Indian Agricultural Research Institute (IARI), New Delhi-110012
5 min.	Oral	Pea pod powder as functional ingredient in mayonnaise: effect on rheology and stability	Dr Shalini Rudra	Division of Food Science and Postharvest Technology, Indian Agricultural Research Institute, Pusa, New Delhi 110 012

	Day 3: November 20, 2021 Time: 16.00-17.30 hrs. Venue: Kailash Bhawan, CSAUA&T, Kanpur			
		Ses New Initiatives in	sion XI Produce N	lanagement
12 min.	Lead Virtual	Experience of FPOs in produce management of horticulture crops	Shri Ram Narayan Ghatak	CEO, INDIGRAM LAB'S Foundation, Mohan Cooperative Industrial Estate, New Delhi 110044
12 min.	Lead	FPOs and Startups to enable Innovation and Technology Adoption in Horticulture	Shri Deepak Pareek	CEO AgriWatch, Director – Partnerships and Alliances, ISAP/ ILF Technology Pioneer, World Economic Forum, New Delhi
12 min.	Lead	New initiatives in establishing farmers producer organizations for quality production and export promotion in horticultural commodities	Dr R.N. Padaria	Professor and Head, Division of Agricultural Extension, ICAR-IARI, New Delhi-110012
12	Lead Virtual	Bringing synergy between FPOs and agri-startups for value creation for horticulture farmers	Dr Ranjit Kumar	Head, Agribusiness Management Division, ICAR- NAARM, Rajendranagar, Hyderabad-500030, Andhra Pradesh
12 min.	Lead Virtual	Impact of Geographical Indication on Horticultural Crops Trade and Livelihoods	Shri Bhanu Pratap Singh	Founder Executive Director, North East Sales Promotion
12 min.	Lead Virtual	Strategies for balancing rising fruits and vegetables imports	Dr Sri Ram Singh	Professor and HOD (Trade Operations & Logistics), IIFT, New Delhi
12 min.	Lead	Seed spices exports- constraints and opportunities	Dr R.K. Kakani	ICAR-Central Arid Zone Research Institute, Jodhpur- 342003, Rajasthan
12 min.	Lead	Empowering tribals in Jharkhand through horticultural enterprises	Shri Rajiv Ranjan	PRADAN, Ashok Kunj, Harmu Housing Colony, Delatoli, Ranchi 834002, Jharkhand

8	Oral	Transforming Livelihood	Dr R. A.	Department of Horticulture,
min.		of Tribals through	Kaushik	Rajasthan College of
		Developing Value Chain in		Agriculture, Maharana
		Underutilized Fruits		Pratap Univ. of Agriculture
				& Technology, C-10, Durga
				Nursery Road, Udaipur
				313001 Rajasthan

18.30-19.30 hrs.

Cultural Programme

(DINNER : 19.30-21.00 hrs.)

Day 4: November 21, 2021

Time: 10.00-13.00 hrs.

Venue: Kailash Bhawan (Hall B), CSAUA&T, Kanpur

Session XII

Elocution contest on

"Fruits and Vegetables are the safest source of Nutrition and maintaining sound Human Health"

Welcome and Remarks	Vice Chancellor, CSAUA&T, Kanpur
Opening Remarks	Chairman
Declaration of Rules and regulations	Co-Chair
Presentation by Students/ delegates	
Closing Remarks	Chairman
Vote of Thanks	Dean College of Agriculture, CSAUA&T

Day 4: November 21, 2021 Time: 10.00-11.30 hrs.

Venue: Kailash Bhawan (Hall A), CSAUA&T, Kanpur

Session XIII

Farmers-Scientists Interface

Theme: Next Generation Regeneration Horticulture: Technological and R&D Needs/ Policy Gaps

Welcome of guests and delegates by Dean

Welcome of Chair and Co-Chair

Sharing of Success stories by Progressive farmers

Address by Co-Chair

Address by Chair

Vote of Thanks

(LUNCH : 13.00 -14.30 hrs.)

Day 4: November 21, 2021

14.30-16.00 hrs.

Valedictory Function

Day 5: November 22, 2021

09.00-17.00	hrs.
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Field Visit

Additional fee Rs.200/ per person to be paid on the Day of Registration

Schedule for Online Poster Sessions (Day 2&3) 9th Indian Horticulture Congress-2021

Theme	Session title	Date	Time
I	International Year of Fruits and Vegetables with focus on Nutrition and Health	19-11-2021	14.30-17.00 Hours
П	Management of Biotic and Abiotic Stresses	19-11-2021	14.30-17.00 Hours
	Genetic enhancement and next generation breeding strategies	19-11-2021	14.30-17.00 Hours
IV	Crops for Round the Year Production	19-11-2021	15.30-17.00 Hours
V	Unexploited/ Underexploited Crops	19-11-2021	15.30-17.00 Hours
VI	Improving Livelihoods through Technological interventions/ Production technologies in horticulture	20-11-2021	10.30-12.30 Hours
VII	Wasteland utilization through Horticulture	20-11-2021	10.30-12.30 Hours
VIII	Rootstocks and Planting Material	20-11-2021	10.30-12.30 Hours
Х	Exploiting Alternate Production Systems for Profitability	20-11-2021	14.30-17.00 Hours
XI	Post-harvest Management and Value Addition	20-11-2021	14.30-17.00 Hours
XII	New Initiatives in Produce Management	20-11-2021	14.30-17.00 Hours

Note:

- 1. Separate zoom link will be provided for each session to the participant
- 2. Recorded poster/ poster in template given may please be presented in 1 minute time highlighting the methodology and work achievements
- 3. The presenter should also be available for discussion during the session.

		Sessior	Session Chair/ Co-Chair	
Session	Session	Date	Chair	Co-chair
_	Thematic Session on International Year of Fruits and Vegetables with focus on Nutrition and Health	November 18, 2021 14.00-15.45 hrs	Dr S.K. Malhotra Agriculture Commissioner, MoAFW, Govt. of India	Dr J.C. Rana Country epresentative, India Office, Alliance of Bioversity International and CIAT, Region – Asia, India Office Dr S. Rajan Director, ICAR-CISH, Lucknow
=	Management of Biotic and Abiotic Stresses	November 18, 2021 15:45 to 17.30 hrs	Dr A.N. Mukhopadhyay Former Vice Chancellor, AAU, Jorhat	Dr D.K. Ghosh Director, ICAR-CCRI, Nagpur Dr H.G. Prakash Director Research, CSAUA&T, Kanpur
=	Unexploited/ Underexploited Crops	November 19, 2021 9.30 to 11.15 hrs	Dr T. Janaki Ram Vice Chancellor, Dr YSR Horticulture University, Venkataramannagudem, A.P.	Dr P.L. Saroj Principal Scientist and Former Director, ICAR- Central Institute for Arid Horticulture, Bikaner, Rajasthan Dr C.P. Sachan Dean, CSAUA&T, Kanpur
≥	Wasteland utilization through Horticulture (Parallel)	November 19, 2021 9.30 hrs to 10.30 hrs	Dr S.D. Sawant Vice Chancellor, KKV, Dapoli, Maharastra	Dr R.A. Marathe Director, National Research Centre for Pomegranate, Solapur, Maharashtra Dr R.P. Singh DSW, CSAUA&T, Kanpur

Session	Session	Date	Chair	Co-chair
>	Genetic enhancement and next generation breeding strategies	November 19, 2021 10.30 to 12.15 hrs	Dr C. Kole Former Vice Chancellor	Dr T.K. Behera Director, ICAR-Indian Institute of Vegetable Research, Varanasi
⋝	Crops for Round the Year Production	November 19, 2021 12.15 to 13.15 hrs	Dr Bijendra Singh Vice Chancellor and University of Agricultural and Technology, Ayodhya, U.P.	Dr B.S. Tomar Joint Director (Extension), ICAR-IARI, New Delhi Dr P.K. Gupta Director, National Horticultural Research and Development Foundation, Janakpuri, New Delhi-110075
T,	Improving Livelihoods through Technological interventions/ Production technologies in horticulture	November 19, 2021 14.15 to 17.15 hrs	Dr Balraj Singh Vice President, IAHS and Former Vice Chancellor, A.U. Jodhpur	Dr H.P. Maheswarappa Director Research, University of Horticultural Sciences, Bagalkot, Karnataka Dr B.N. Hazarika Dean, CAU, Pasighat, Aruchal Pradesh
III	Rootstocks and Planting Material	November 20, 2021 9.30 to 11.10 hrs	Dr D.R. Singh Vice Chancellor, CSAUA&T, Kanpur	Dr Raju Barwale Chairman, Mahyco, Maharashtra Dr R.G. Somkunwar Director, ICAR-NRC Grape, Pune
×	Exploiting Alternate Production Systems for Profitability	November 20, 2021 11.10 to 13.00 hrs	Dr. R.K. Pathak Former Director, ICAR- CISH, Lucknow	Dr Y.R. Chanana Former Head, PAU, Ludhiana Dr V.K. Tripathi Professor and Head (Hort), CSAUAT, Kanpur

Session	Session	Date	Chair	Co-chair
×	Post-harvest	November 20, 2021		
	wanagement and Value Addition	14.00 to 16.00 hrs.	Former Vice Chancellor, Dr YS Parmar University of agriculture and Technology, Solan, Himachal Pradesh	Former ADG(Hort), ICAR, New Delhi
×	New Initiatives in	November 20, 2021	Shri Deepak Pareek	Dr B. Hemla Naik
	Produce Management	16.00-17.30 hrs	CEO, AgriWatch	Director (Extension), KSN University of
			Director –Partnerships and Alliances, ISAP/ILF	Agricultural and Horticultural Sciences, Shivamogoa: Karnataka
			Technology Pioneer, World	
			Economic Forum, New	Dr R.N. Padaria
			Delhi	Professor and Head, Division of Extension Education, ICAR-IARI, New Delhi
×	Elocution contest on	November 21, 2021	Dr S.K. Singh	Dr Dharm Raj Singh
	Fruits and Vegetables	10.00 to 13.00 hrs.		Vice President, IAHS, New Dean, CoA, CSAUAT, Kanpur
	are the safest source of Nutrition and		Delhi	
	maintaining sound Human Health			
IIIX	Farmers Scientist	November 20, 2021	APC	Dr M.J. Khan
	Interface	10.30-13.00 hrs	Govt of Uttar Pradesh / Vice Chancellor, CSAUAT,	Govt of Uttar Pradesh / Chairman, Indian Chamber of Food and Vice Chancellor, CSAUAT, Agriculture, New Delhi
			Kanpur	DGM, NABARD, Lucknow, Director (Extension Education)
	Valedictory Session	14.30- 16.00 hrs		



9th Indian Horticulture Congress 18-21st January, 2021

National Organsing Secretaries

Dr Jai PrakashMob.: 9654761955Local Organsing SecretariesMob.: 7905494486Dr H.G. Prakash Dr V.K. TripathiMob.: 9450331991Online Oral Poster Presentation Dr Jai Prakash Dr M.K. Verma Dr S.K. SinghMob.: 9654761955 Mob.: 9013885259 Mob.: 9013885259 Mob.: 8920968154Nope Dr Sarvesh Kumar Dr Sarvesh Kumar Dr Shweta YadavMob.: 9035202988 Mob.: 9415175257Registration Dr Shweta YadavMob.: 9450337602Food Dr P.K. UpadhyayMob.: 6306014171	Dr V.B. Patel	Mob.: 8294290141
Dr H.G. Prakash Dr V.K. TripathiMob.: 7905494486 Mob.: 9450331991Online Oral Poster Presentation Dr Jai Prakash Dr M.K. Verma Dr S.K. SinghMob.: 9654761955 Mob.: 9013885259 Mob.: 9013885259 Mob.: 8920968154Commodation and Transport Dr Sarvesh Kumar Dr Manender SinghMob.: 9035202988 Mob.: 9415175257Registration FoodMob.: 9450337602	Dr Jai Prakash	Mob.: 9654761955
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	Dr Shweta Yadav	Mob.: 9450337602
Dr P.K. Upadhyay Mob.: 6306014171		
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Hall Arrangement		
Dr Akhilesh Mishra Mob.: 9415480433	Dr Akhilesh Mishra	Mob.: 9415480433