

TECHNICAL PROGRAMME	
30th October, 2023	
09:30-11:00	INAUGURATION Venue: Bharat Ratna C. Subramaniam Auditorium
11:00-11:45	High Tea
11:45-12:45	Dr. N.B. Das Memorial Lecture Venue: Bharat Ratna C. Subramaniam Auditorium
	Chair Dr. T. Mohapatra, Chairperson, PPV &FRA, NASC, New Delhi
	Co-Chair Dr. Kheya Bhattacharya, Former IFS Officer, New Delhi
	Speaker Prof. Rajeev K Varshney, Murdoch University, Australia Title: Genomic solutions for enhancing global food security and ensuring agriculture sustainability (45 Minutes) (Virtual)
12:45-13:30	Felicitation Programme of Dr. S L Mehta
13:30-14:30	Lunch
CONCURRENT SESSIONS	
14:30-16:30	Venue: Bharat Ratna C. Subramaniam Auditorium
	Venue: Prithvi Hall
	I: Metabolic Pathway Engineering
	II: Advanced Molecular Tools for Crop Improvement: Genomics and Genome Editing
	Lead Lectures (22 minutes Talk + 3 minutes for Interaction)
14:30-14:55	Prof. Subhra Chakraborty Director, NIPGR, New Delhi Title: Mining multi-omes to dissect the seed gene regulation and nutrient dynamics in cereal towards protein improvement
14:55-15:20	Dr. Gitanjali Yadav Scientist, NIPGR, New Delhi Title: Deciphering Regulatory Landscapes of Green Algal CCM
15:20-15:45	Dr. Ram Rajasekharan Professor, Central University of Tamil Nadu, Thiruvarur Title: A Novel Soluble Triacylglycerol Biosynthetic Pathway in Yeasts and Oilseeds
15:45-16:30	Dr. Swarup K. Parida Scientist, NIPGR, New Delhi Title: Next-Generation Molecular Breeding for A Food Sufficient Future
16:00-16:15	Dr. Ajit Kumar Shasany Director, CSIR – NBRI, Lucknow Title: Pathway Synteny and metabolite channelling: Engineering towards better stress response
16:15-16:30	Dr. Satendra Kumar Mangrauthia Senior Scientist, IIRR, Hyderabad Title: CRISPR/Cas12a driven multiplex genome editing of a cytokinin regulator improves plant architecture and grain yield in rice
16:30-17:00	Oral Presentations (13 minutes Talk + 2 minutes for Interaction)
15:45-16:00	Dr. Aruna Kilaru Professor, East Tennessee State University, USA Title: Key Avocado Genes Cooperatively Enhance 18:1-TAG in Leaf Tissues
16:00-16:15	Dr. Sachin Teotia Associate Professor, Sharda University, Uttar Pradesh Title: A high-efficiency gene silencing in plants using two-hit asymmetrical artificial microRNAs
16:15-16:30	Dr. Ashutosh Pandey Staff Scientist, NIPGR, New Delhi Title: Pathway engineering in food crops for enhancing nutritional value and food security
16:30-17:00	Dr. Manimekalai Principal Scientist, SBI, Coimbatore Title: Genomic selection in sugarcane: unlocking the potential for sustainable sugarcane agriculture
16:15-16:30	Dr. Yogendra Kalenahalli Scientist, ICRISAT, India Title: Secondary cell wall thickening associated with the deposition of hydroxycinnamic acid amides and lignin to resist aflatoxin accumulation in groundnut
16:30-17:00	Dr. Aniruddha Sane Chief Scientist, CSIR-NBRI, Lucknow Title: A tomato EAR motif repressor controls plant developmental transitions through regulation of the GA pathway
16:30-17:00	Tea Break

	Venue: Bharat Ratna C Subramaniam Auditorium		
17:00-18:00	Plenary lectures (25 minutes Talk + 5 minutes for Interaction)		
	Chair Dr. A. K. Tyagi, Senior Professor , University of Delhi, South Campus, New Delhi		
17:00-17:30	Speakers		
	Dr. T. R. Sharma Deputy Director General (Crop Science), ICAR, New Delhi Title: <i>Biotechnological Applications in Agriculture for National Food Security</i>		
17:30-18:00	Dr A. K. Singh Director, ICAR-IARI, New Delhi Title: <i>Molecular breeding for biotic & abiotic stress tolerance and quality improvement in cereals</i>		
18:00-19:00	Poster Session-I		
19:00-20:00	Cultural Programme		
20:00-21:00	Dinner		
31st October, 2023			
	Venue: Bharat Ratna C. Subramaniam Auditorium		
09:30-10:30	Plenary lectures (25 minutes Talk + 5 minutes for Interaction)		
	Chair Prof. P. K. Gupta Hon'ble Emeritus Profesor, Department of Genetics and Plant Breeding Ch. Charan Singh University, Meerut		
09:30-10:00	Speakers		
	Prof. Nigel George Halford Rothamsted Research, Harpenden, UK Title: <i>Low asparagine, low acrylamide CRISPR wheat: Europe's first field trial of gene edited wheat in the context of rapidly changing regulations</i>		
10:00-10:30	Dr. Vedpal S. Malik Agriculturist/Biotechnologist, Retd. US Department of Agriculture, USA Title: <i>Oil seeds, Biofuels, Diverse crops, and Big Money through Technology</i>		
10:30-11:00	Tea Break		
CONCURRENT SESSIONS			
	Venue: Prithvi Hall		Venue: Bharat Ratna C. Subramaniam Auditorium
	III: Abiotic And Biotic Stress Tolerance		IV: Plant Nutrition & Food Quality Enhancement
11:00-13:10	Chair Dr. Anil Grover, Senior Professor, Dept. of PMB, DUSC, New Delhi		11:00-13:05
	Co-Chair Dr. Kashchandra Raghothama Horticulture and Landscape Architecture, Purdue University, USA		
	Lead Lectures (22 minutes Talk + 3 minutes for Interaction)		Chair Prof. Nigel George Halford, Rothamsted Research, UK
11:00-11:25	Dr. Kashchandra Raghothama Horticulture and Landscape Architecture, Purdue University, USA Title: <i>Phosphate deficiency; a major abiotic stress impacting global agriculture</i>		11:00-11:25
11:25-11:50	Prof. Manoj Prasad Professor & JC Bose National Fellow, NIPGR, New Delhi Title: <i>Heat shock proteins of foxtail millet (Setaria italica) for imparting climate resilient traits in cereals</i>		11:25-11:50
11:50-12:15	Dr. Ranjan Swarup Associate Professor University of Nottingham, UK Title: <i>Designer roots for sustainable agriculture and abiotic stress tolerance</i>		11:50-13:05
			11:50 - 12:05
12:15-12:40	Dr. Sona Pandey Principal Investigator, Donald Danforth Plant Science Center, USA Title: <i>Role of G-protein signaling in regulating plant agronomic traits</i>		11:50-13:05 Oral Presentations (13 minutes Talk + 2 minutes for Interaction)
			12:05 - 12:20
	Dr. Somnath Mandal Assistant Professor, UBKV, West Bengal Title: <i>In-depth metabolite profiling of Curcuma species from Sub-Himalayan terrain plains of India revealed its anti-diabetic and anti-fungal potential</i>		

12:40-13:10	Oral Presentations (13 minutes Talk + 2 minutes for Interaction)		
12:40-12:55	Dr. Amolkumar Solanke Senior Scientist, NIPB, New Delhi Title: Development of blast resistance in rice by understanding the interaction between rice and <i>Magnaporthe oryzae</i>	12:20 - 12:35	Dr. Veda Krishnan Scientist, IARI, New Delhi Title: Gut taste what we eat: Sorghum proanthocyanidins and their role in gut-brain axis activation inducing satiety
12:55-13:10	Dr. Sribash Roy Senior Principal Scientist, CSIR-NBRI, Lucknow Title: Methylome Remodeling Under Elevated CO ₂ in Two Populations of <i>Arabidopsis Thaliana</i> Originated at High and Low Elevation of West Himalayas	12:35 - 12:50	Dr. Venkateswaralu Ronda Senior Scientist, IIMR, Hyderabad Title: Finger millet is ideal for desirable Calcium:Phosphorus ratio in diets
		12:50 - 13:05	Dr. Sunil Kumar Principal Scientist, IIWBR, Karnal Title: Celiac antigenicity analysis of Indian wheat varieties using polyclonal antibody against gliadins
13:10-14:00	Lunch		
CONCURRENT SESSIONS			
	Venue: Bharat Ratna C. Subramaniam Auditorium		Venue: Prithvi Hall
14:00-15:50	V: Millets as Nutraceuticals Chair Dr. C. Tara Satyavathi, Director, ICAR-IIMR, Hyderabad	VI: Advances in Legumes & Oilseed Research Chair Dr. Avtar K. Handa, Professor of Molecular Genetics, Purdue University, USA	
	Co-Chair Dr. Shelly Praveen Former Head, Division of Biochemistry, ICAR-IARI, New Delhi	Co-Chair Dr. D. K. Yadava Assistant Director General (Seeds) ICAR, New Delhi	
	Lead Lectures (22 minutes Talk + 3 minutes for Interaction)		
14:00-14:25	Prof. Rattan Yadav Professor of Plant Genetics, Aberystwyth University, UK Title: What makes millets special in treating type-2 diabetes and the way forward integrating such traits in crops varieties?		Dr. D. K. Yadava Assistant Director General (Seeds) ICAR, New Delhi Title: Biotechnological tools can help achieving self-sufficiency in oilseeds
14:25-14:50	Dr. C. Tara Satyavathi Director, ICAR-IIMR, Hyderabad Title: Transformation of Millets (Shree Anna): From Traditional Foods to Nutraceuticals		Dr. C. Bharadwaj Principal Scientist, IARI, New Delhi Title: Valorization of Genes in Developing Drought Tolerant Chickpeas
14:50-16:00	Oral Presentations (13 minutes Talk + 2 minutes for Interaction)		
14:50-15:05	Dr. Girish Kumar Mittal Assistant Professor, SKN Agriculture University, Jobner, Rajasthan Title: Genetic profiling of lipids and fatty acids in global collection of pearl millet germplasm for improved health benefits		Dr. Vinutha T Senior Scientist, IARI, New Delhi Title: Development of plant protein blends from chickpea-peanut-brown rice for balanced amino acid score and protein quality
15:05-15:20	Dr. Suneha Goswami Senior Scientist, IARI, New Delhi Title: Impact of thermal treatments on pearl millet's rancid behaviour rheological characteristics and nutritional bioaccessibility		Dr. Navin C. Gupta Senior Scientist, NIPB, New Delhi Title: Identification of new sources of resistance for Sclerotinia stem rot disease in oilseed Brassica
15:20-15:35	Dr. Avinash Singode Senior Scientist, ICAR-IIMR, Hyderabad Title: Protein content USP of Proso millet		Dr. Vishwanath R. Yalamalle Senior Scientist, IARI, New Delhi Title: Degradation of unsaturated fatty acids is associated with low storability in onion seed
15:35-15:50	Dr. Kirankumar P. Suthar Assistant Professor, Navsari Agricultural University, Gujrat Title: Amino Acid Profiling of Little Millet: A Way to Boost Nutritional Quality		Dr. Neeraj Kumar Tiwari Scientist, IARI, New Delhi Title: Siphoning Novel Candidate Gene-Based Markers for Salinity Responsiveness in Chickpea (<i>Cicer arietinum</i> L.)
15:50-16:30	Tea Break		

Venue: Bharat Ratna C. Subramaniam Auditorium	
16:30-17:00	Plenary Lecture
	Chair Dr. S. L. Mehta, President, SPBB, New Delhi
	Speaker Dr. Sanjay Kumar, Chairman, ASRB, New Delhi
17:00-18:10	Student/Scientist/Industry-Academia Interface (Panel Discussions)
	Chair Dr. Raju Barwale, Chairman, Mahyco
	Moderator Dr. Vinutha T Senior Scientist, IARI, New Delhi
	Dr. Suneha Goswami Senior Scientist, IARI, New Delhi
	Industry Panelists Ms. Shilpa Wadhwa, Nestle Mr. Abhiram Seth, AquaAgri Mr. Prashant Nanargikar, ISHA AGRO
Academia Panelists Dr. Sanjay Kumar, Chairman, ASRB, New Delhi Dr. Ajit Shasany, Director, NBRI, Lucknow Dr. Dayakar Rao B, CEO, Centre of excellence, Nutrihub IIMR, Hyderabad	
18:10-18:50	Flash Talks
	Chair Dr. R. C. Bhattacharya, Director, ICAR-NIPB, New Delhi
	Co-Chair Dr. S Sivakumar, Professor and Head, Department of Millets, TNAU, Coimbatore
	Student Panelists Mr. Vivek Saurabh (Ph.D.), Division of Food Science & Postharvest Technology, IARI, New Delhi Mr. Tamil Selvan S (Ph.D.), Division of Biochemistry, IARI, New Delhi Mr. Amit Kumar,(Ph.D.), Division of Plant Biotechnology, NIPB, New Delhi Mr. Aditya Thakur (M.Sc.), Department Of Chemistry, IIT, Jammu
18:10-18:15	Ms. Arpitha, S. R. Ph.D. Scholar, ICAR-IARI, New Delhi Title: Synergy at Work: Probiotic Fermentation and Germination as a strategy to enhance potential functional properties of soymilk
18:15-18:20	Ms. Varsha Mahadik Research Scholar, CSIR-NCL, Pune Title: RNA-mediated strategy to control Fusarium wilt of tomato
18:20-18:25	Ms. Deepanyeta Goswami Ph.D. Scholar, ICAR- IARI, New Delhi Title: Carbohydrate Quality Indices in Minor Millets: Key Towards Functional Health Food
18:25-18:30	Mrs. Antil Jain Project Associate, ICAR-NBPGR New Delhi Title: Developing Robust NIR Prediction Model for Selected Quality Traits in Wheat
18:30-18:35	Ms. Deepika Singh Ph.D. Scholar, Regional Centre for Biotechnology, Haryana Title: Aliphatic glucosinolates pathway is cross-regulated by O-acetylation on plant cell wall polysaccharides in Arabidopsis thaliana
18:35-18:40	Dr. Deepika Sharma Ph.D. Scholar, Delhi University Title: Characterization of miRNAs regulating flowering time in rice
18:40-18:45	Mr. Tamil Selvan S Ph.D. Scholar, ICAR- IARI, New Delhi Title: Biochemical and Molecular Insights into Enhanced Phosphorus Use Efficiency and Phytate Accumulation in Seed of Rice on Introgression of Pup1 QTL
18:45-18:50	Dr. Vikas Mandal Research Associate, Guru Gobind Singh Indraprastha University, Delhi Title: G-protein alpha subunit (RGA1) mediated regulation of nitrogen-sensitivity and nitrogen use efficiency in rice
18:50-19:50	Poster Session-II
19:50-20:30	SPBB Annual General Body Meeting
20:30-21:00	Dinner

1 st November, 2023	
	Venue: Bharat Ratna C. Subramaniam Auditorium
09:30-10:30	Plenary lectures (25 minutes Talk + 5 minutes for Interaction)
	Chair Prof. Deepak Pental, Former VC, Delhi University
	Speakers
09:30-10:00	Prof. Yunde Zhao Department of Cell and Developmental Biology, University of California, USA Title: Molecular mechanisms of auxin homeostasis (Virtual)
10:00-10:30	Dr. Balaram P. Former Director, Indian Institute of Science, Bangalore Title: Evolution and the Origins of Biology
10:30-11:00	Tea Break
	SPBB - Springer Young Scientist Award presentations
11:00-13:30	Chair Dr. R. M. Naik, Former Professor, MPKV, Rahuri
	Co-Chair Dr. V. K. Yadav, Former Director (Research) Sri Karan Narendra Agriculture University, Jobner
11:00-11:10	Ms. Simardeep Kaur Ph.D. Scholar, ICAR-Indian Agricultural Research Institute, New Delhi Title: Comparative miRNome and Transcriptome Analysis Reveal the Novel microRNAs Involved in Regulation of Gene Networks Under Terminal Drought Stress in Rice
11:10-11:20	Ms. Gayathri J Ph.D. Scholar, ICAR-Indian Agricultural Research Institute, New Delhi Title: Untargeted metabolomics study under future climatic conditions in Indian mustard pistil
11:20-11:30	Dr. Jafar K. Lone Project Assistant, ICAR-NBPGR, New Delhi Title: Identification of novel sources of drought tolerance in chickpea using morpho-physiological traits and metabolome profiling
11:30-11:40	Dr. Chintha Pradeepika Scientist, ICAR-Central Tuber Crops Research Institute, Kerala Title: Development of Nutrient-Packed Gluten-free Pancakes from Sweet Potato and Finger Millet
11:40-11:50	Mr. Aswin Reddy Chilakala Doctoral Student, National Institute of Plant Genome Research, New Delhi Title: Exploring the use of novel antifungal protein in combating dry root rot disease in chickpeas
11:50-12:00	Dr. Nitish Ranjan Prakash Scientist, ICAR-Central Soil Salinity Research Institute, Regional Research Station, Canning Town Title: Genetics of prolificacy in Sikkim Primitive maize unraveled through targeted QTL mapping and whole-genome resequencing-based DNA polymorphism
12:00-12:10	Mr. Vignesh Ponnurangan Student, TamilNadu Agricultural University, Coimbatore Title: Deciphering the function of OsNH2 gene in enhancing sheath blight disease resistance in rice via CRISPR/Cas9 technology
12:10-12:20	Dr. Shobhit Raj Vimal Dr. D. S. Kothari Postdoctoral Fellow, University of Allahabad, Uttar Pradesh Title: Insight in naturally grown Croton leaves core endophytic microbiota and endophyte Alcaligenes faecalis SSP8 mediated crosstalk between IAA and ACC deaminase in saline stress management in paddy seedlings
12:20-12:30	Dr. Phanikanth Jogam CSIR-Research Associate, Kakatiya University, Telangana Title: Genome engineering using CRISPR/Cas9 in Solanaceae crops to develop Tobamovirus resistance
12:30-12:40	Dr. Kapudeep Karmakar Assistant Professor, UBKV, West Bengal Title: Methylglyoxal produced by plant act as an antimicrobial molecule against non-typhoidal serovars of Salmonella during salinity stress
12:40-12:50	Mr. Ashwinkumar Katral Ph.D. Scholar (6th year), ICAR-IARI, New Delhi Title: Enrichment of kernel oil through genomics-assisted pyramiding of dgat1-2 and fatb genes in multi-nutrient-rich maize hybrids

12:50-13:00	<p align="center">Mr. Ikkurti Gopinath PhD Scholar, ICAR-IARI, New Delhi</p> <p>Title: Biofortification of popcorn genotypes with higher lysine and tryptophan in kernels through genomics-assisted breeding for mutant opaque2 and opaque16 genes</p>	
13:00-13:10	<p align="center">Dr. Gouranga Upadhyaya SERB National Post Doctoral Fellow (N-PDF), Indian Institute of Science Education and Research, Kolkata</p> <p>Title: Birth of D-segment: A non-canonical warrior against abiotic stressors in plant dehydrins</p>	
13:10-13:20	<p align="center">Ms. Rubi Jain PhD, JNU, New Delhi</p> <p>Title: Integrated transcriptome and miRNome profiling reveals the regulatory network of seed size and oil content in Brassica juncea</p>	
13:20-13:30	<p align="center">Dr. Kansom Sarika Scientist, ICAR-RC, NEHR, Manipur Centre</p> <p>Title: In-Planta Haploid Induction Potential of CRISPR-CAS9 Edited CENH3 Variant in Tomato</p>	
13:30-14:30	Lunch	
CONCURRENT SESSIONS		
	Venue: Bharat Ratna C. Subramaniam Auditorium	Venue: Prithvi Hall
	VII: Functional Genomics And Regulatory Biology	VIII: Microbiome & Nanotechnology For Health
14:30-16:30	Chair Dr. Swapan Kumar Datta, Former DDG (Crop Science), ICAR	Chair Dr. Balasubramanian Ramakrishnan Principal Scientist, Division of Microbiology, IARI
	Co-Chair Dr. Ramavtar Sharma, Principal Scientist, ICAR-CAZRI, Jodhpur & Vice President, SPBB	Co-Chair Prof. Archana Chugh Kusuma School of Biological Sciences, IIT Delhi, New Delhi
	Lead Lectures (22 minutes Talk + 3 minutes for Interaction)	
14:30-14:55	Dr. N. K. Singh National Professor B.P. Pal Chair ICAR – NIPB, New Delhi Title: Genomics-assisted breeding of climate-resilient high-yielding rice cultivars	Dr. Balasubramanian Ramakrishnan Principal Scientist, Division of Microbiology, IARI Topic: The Microbiome Connections: One Health and Our Planet
14:55-15:20	Prof. Ashwani Pareek Director, NABI, Mohali Title: Learning lessons from a coastal wild rice: dissecting the novel suit of salinity tolerance mechanisms	Prof. Archana Chugh Kusuma School of Biological Sciences, IIT Delhi, New Delhi Title: Peptidic nanocarriers and antimicrobials for crop improvement
15:30-16:30	Oral Presentations (13 minutes Talk + 2 minutes for Interaction)	
15:30-15:45	Dr. Suresh Kumar Principal Scientist, IARI, New Delhi Title: Genomics and Epigenomics of Adaptive Plasticity: Growing Rice by Dry/direct-sowing under Fluctuating Environmental Conditions	Dr. Dilfuza Jabborova Head of Laboratory, Institute of Genetics and Plant Experimental Biology, Kibray, Uzbekistan Title: Promotion of growth physiological properties and yield in turmeric using plant growth-promoting bacteria
15:45-16:00	Dr. Niraj Agarwala Assistant Professor, Gauhati University, Assam Title: LncRNAs responsive to temperature stress conditions in tea plant	Dr. Sandeep Kumar Scientist, National Institute of Secondary Agriculture, Namkum Title: A Journey of Isoflavones from Biosynthesis and Accumulation to Bioavailability
16:00-16:15	Dr. Vidhu Sane Chief Scientist, CSIR-NBRI, Lucknow Title: A tomato heat shock factor alters root architecture by promoting lateral root growth and suppressing primary root through altered auxin sensitivity	Dr. Reetu Mehta Assistant Professor, B.N. University, Udaipur Title: Role of human microbiome in maintaining human health
16:15-16:30	Dr. Subodh Kumar Sinha Principal Scientist, NIPB, New Delhi Title: Functional validation of a high-affinity nitrate transport system of bread wheat (Triticum aestivum L.)	Dr. Aditi Arya Associate Professor, Deenbandhu Chottu Ram University of Science and Technology, Murthal, Sonapat Haryana Title: Profiling of phytochemical attributes synthesis of silver nanoparticles and determination of antimicrobial efficacy from plant extract of Aegle marmelos L.
16:30-18:00	Valedictory Programme Venue: Bharat Ratna C. Subramaniam Auditorium	
18:00 onwards	High Tea	