

National Virtual Conference on Genomics to Phenomics: A New Horizon in Plant Science Research

Organized by

Department of Botany, University of Calcutta

28th February – 1st March 2021

Tentative Program schedule

Day 01: 28 th February 2021			
Link to join the event https://zoom.us/j/95038269396?pwd=SINvcTdrOHNycTIWYzFLam4rekxhUT09			
Time			
	Inauguration		
	Opening Song by Research Scholars, Department of Botany, CU		
10:30 AM – 11.00 AM	Welcome Address by Prof. Binay Chaubey, Head of the Department, Department of Botany, CU		
	Inaugural Speech by Chief guest, Prof. Swapan K Datta, Vice Chancellor, Biswa Bangla University, Bolpur, West Bengal		
	Keynote Lec		
11:00 AM – 12:00 PM	Chairperson: Prof. Sampa Das, Bose Institute, Kolkata		
11:00 AM – 12:00 PM	Speaker: Prof. Probodh Trivedi, Director, CSIR-CIMAP, Lucknow Title of the talk: Interactions of small molecules play a bigger role in plant growth and development		
	Technical Session I		
	Chairperson: Prof. Santanu Paul, CU, Ko		
12:00 PM – 12:40 PM	<i>Invited talk I</i> Speaker: Prof. Manoj Prasad, NIPGR, New Delhi Title of the talk: Millet genomics for food and nutritional security		
	Invited talk II		
12:40 PM – 01:20 PM	Speaker: Prof. Viswanathan Chinnuswami, IARI, New Delhi Title of the talk: Genome editing for improving abiotic stress tolerance of rice		
01:20 PM - 02:00 PM	Lunch break		
	Poster Session I	Poster Session II	
02:00 PM – 04:50 PM	Cordinators: Dr. Debabrata Maity, CU, Kolkata Dr. Susmita Das, CU, Kolkata	Coordinators: Dr. Surekha Kundu, CU, Kolkata	
	Theme I: Plant Responses to Environmental	Dr. Saurav Moktan, CU, Kolkata	
	Stress (PP01 – PP13) Theme III: Plant Growth and Development (PP26 – PP29)	Theme II: Plant-Microbe Interaction (PP14 – PP25)	
	Theme V: Nanotechnology, Gene Manipulation and Crop Improvement (PP41 – PP44)	Theme IV: Plant Products and Medicinal Importance (PP30 – PP40)	
Technical Session II			
	Chairperson: Prof. Rita Kundu, CU, Kolkata		
4:50PM-5:30 PM	Invited talk III Speaker: Dr. Subhadeep Chatterjee, CDFD, Hydrabad		
	Title of the talk: Understanding the social language of bacteria: Speak or not to speak?		

Day 02: 1 st March 2021			
	Link to join the event https://zoom.us/j/95038269396?pwd=S1NvcTdrOHNycT1WYzFLam4rekxhUT09		
	Time	as provide a second contract of the second co	Event
10.15	AM 12.20 DM	Ora	l Presentations
10:15	AM – 12:30 PM	Coordinator: Prof. Ki	rishnendu Acharya, CU, Kolkata
OP 01	Dr. Bijoya Bhattacharjee	ICAR Research Complex for NEH Region, Meghalaya	New study on Aluminum tolerance in rice: Expression pattern analysis of Aluminum- responsive genes of rice genotypes of North- East India
OP 02	Dr. A. Chandra Sekhar	School of Life Sciences, Yogi Vemana University, Andhra Pradesh	Insearch of Superior Alleles for Yield and Yield Related Traits under Drought Stress in Foxtail Millet (Setaria italica L.): Landraces as a Source for Mapping Population Development, Linkage Map Construction and QTL Identification
OP 03	Dr. P. Roopa Sowjanya	ICAR-NRC on Pomegranate, Kegoan, Solapur, Maharashtra	To combat the malnutrition: Developing maize as a source of protein
OP 04	Dr. Parashuram Patroti	Centre on Rabi Sorghum (ICAR- Indian Institute of Millets Research), Shelgi, Solapur, Maharashtra	Analysis of genetic diversity in exotic sorghum germplasm and identification of trait specific superior accessions for rabi situation
OP 05	Salman Sahid	University of Calcutta, Kolkata, West Bengal; Dr. A.P.J. Abdul Kalam Government College, Kolkata, West Bengal	<i>Rice r40c1 protein: a novel regulator of osmotic stress tolerance responses in plants</i>
OP 06	Ch. Raveendra	Agricultural College and Research Institute, Tamil Nadu Agricultural University, Madurai, Tamil Nadu	The protein kinase gene from traditional rice confers tolerance to low phosphorus stress
OP 07	Abhijeeta Nandha	ICAR research Complex for NEH region, Meghalaya	Molecular Characterization of Wheat (Triticum aestivum L.) under Heat Stress
OP 08	Debabrata Dutta	Bose Institute (Main Campus), Kolkata, West Bengal	Transcriptome analysis of three sesame genotypes reveals differentially expressed genes in response to Macrophomina phaseolina infection
OP 09	Madhubanti Chaudhuri	University of Calcutta, Kolkata, West Bengal	Isolation of potential antimicrobial metabolite from endophytic Bacillus amyloliquefaciens DL06 of carnivorous plant Drosera burmannii Vahl.
OP 10	Sheetal Devtare	Raipur Institute of Technology, Raipur, Chhattisgarh	Phytochemical Analysis of Dalbergia latifolia and Development of Protocol for Tissue Culture
OP 11	Soumila Mondal	Institute of Science, Banaras Hindu University, Varanasi, Uttar Pradesh	Detection and estimation of reactive oxygen species using flow cytometry and 2',7'-dichlorodihydrofluorescein diacetate in different morphological forms of cyanobacteria
	Technical Session III		
	Chairperson: Prof. Ruma Pal, CU, Kolkata		
12:30	12:30 PM – 01:10 PM Invited talk IV Speaker: Dr. Jitendra K Thakur, NIPGR, New Delhi Title of the talk: Structure and function of plant mediator complex		n K Thakur, NIPGR, New Delhi and function of plant mediator complex
01:10	PM – 01:50 PM	Speaker: Dr. Sou	nvited talk V urav Datta, IISER, Bhopal of B-box proteins in light and dark
01:50 PM -02:00 PM Award distribution and Valedictory Session		ion and Valedictory Session	

02:00 PM - 02:30 PM	Lunch break
	Bioinformatics e-Workshop
02:30 PM - 05:30 PM	on
02.301 W = 03.301 W	Surge on Genomics Datasets: Microbes to Plants
	Coordinator: Dr. Shailesh Kumar, NIPGR. New Delhi

Link for workshop will be emailed to the selected participants only

	Poster Presentations				
Theme	Theme I: Plant Responses to Environmental Stress				
PP 01	Subhajit Saha West Bengal State University, West Bengal	Across a wide degradation gradient in Indian Sundarbans, cross- pollination seems to be the preferred mode for reproductive success in mangroves: some data from the native habitat			
PP 02	Aniket Bhattacharya Ramkrishna Mission Vidyalaya, Narendrapur, Kolkata, West Bengal	Comparative assessment of cadmium tolerance potential of some selected rice cultivars of West Bengal			
PP 03	Joykesh Roy Barman Presidency University, Kolkata, West Bengal	Plants histone deacetylases (HDACs) are the key regulators of stress responses.			
PP 04	Ayan Adhikari University of Kalyani, Kalyani, Nadia, West Bengal	Chromium (VI)-induced oxidative stress and antioxidant defense system in maize (Zea mays L.)			
PP 05	Ankur Singh St. Xavier's College, Kolkata, West Bengal	Physiology and grain formation is contrastingly regulated in three rice cultivars exposed to fluoride toxicity, representing a potential biohazard			
PP 06	Ravita Forest Research Institute, Dehradun	Assessment of salt tolerance behavior in eucalypts clones based on physio-biochemical responses			
PP 07	Rohini Bhat Indian Institute of Integrative Medicine (CSIR), Jammu	Understanding independent effect of abiotic and biotic conditions in regulation of components of glucosinolate-myrosinase system in <i>Lepidium latifolium</i> L.			
PP 08	Subhajit Chakraborty Serampore College, West Bengal	Investigating Chromium(VI) Resistance in Bacteria Isolated from Hooghly River Water and Sediments			
PP 09	Anjan Hazra Indian Statistical Institute, Kolkata, West Bengal	Indication and mitigation potential of tea as a climate smart attribute			
PP 10	Pritha De Paul University of Calcutta, Kolkata, West Bengal	Different Expansins involved in abiotic stress response			
PP 11	Nilabhra Mitra Presidency University, Kolkata, West Bengal	Role of SIRT1 in Plant stress regulation			
PP 12	Sujit Das University of Gour Banga, Malda, West Bengal	Estimation of Air pollution tolerance index (APTI) in naturally growing plants under higher Vehicular Pollution			
PP13	Priyanka Boro CSIR-IICB, Kolkata, West Bengal	Heat shock proteins and glutathione: the dual regulation in mitigating environmental stress			
Theme	Theme II: Plant-Microbe Interaction				
PP 14	Ipsita Das West Bengal State University, West Bengal	Screening for Sigatoka leaf spot disease resistance among fourteen Indian cultivars of banana using activation level of 'core' Phenylpropanoid pathway as biomarker of pathogen resistance			
PP 15	Biswajit Biswas St. Xavier's College, West Bengal	Culturable community of root endophytic bacteria in Indian Sundarban mangrove species demonstrate high potential for plant growth promoting activities under laboratory conditions			
PP 16	Dr. Prashant R. Shingote Dr. Panjabrao Deshmukh Krishi Vidyapeeth, Maharashtra	"Full-Genome Characterization of Chilli Leaf Curl Virus Infecting Chilli in Maharashtra"			
PP 17	Dhiraj Wasule Vasantrao Naik College of Agricultural Biotechnology, Maharastra	Elicitors efficacy against Alternaria leaf spot of soybean			
PP 18	Dr. Vikas Sharma	Plant tissue culture based screening strategies of beneficial plant			

	School of Bioengg. and Biosciences, LPU- Jalkandhar	microbial interactions for acclimatization
PP 19	Sumana Mondal West Bengal State University, West Bengal	Halophytic grasses and rice rhizosphere in Indian Sundarbans are habitat of nutrient cycling bacteria having high potential of plant growth promotion
PP 20	Sonali Khan Presidency University, Kolkata, West Bengal	cobB-like protein- mystery behind a bacterial protein in plant- Oryza sativa indica
PP 21	Sunita Rawat Forest Research Institute, Dehradun	Endophytes: Common to key performer of plant physiology
PP 22	Debasmita Pal University of Calcutta, West Bengal	In silico analysis of <i>Os</i> R40g3 protein and its interactions with Rice Blast fungus, <i>Magnaporthe oryzae</i>
PP 23	Dr. Shilpa Parashuram ICAR-National Research Centre on Pomegranate, Solapur, Maharashtra	Identification of fruit morphological and biochemical traits correlated to bacterial blight disease in Pomegranate
PP24	Kanika Arora Govind Ballabh Pant National Institute of Himalayan Environment (GBPNIHE) Kosi-Katarmal, Almora, Uttarakhand	Potential of Potassium Solubilizing Bacteria in Fostering Sustainable Agriculture
PP 25	Himashree Chhetri North Bengal University, West Bengal	Metabolite profiling of the affected and unaffected tea leaves by the common pest of Darjeeling.
Theme	III: Plant Growth and Development	
PP 26	Tania Upadhyay Bethune College, West Bengal	Comparative study of indigenous protein rich rice cultivars of West Bengal
PP 27	Anamika Jangra Forest Research Institute, Dehradun	Effects of Zinc, Manganese, and Iron on Growth and Development of <i>Dendrocalamus strictus</i> (Roxb.) Nees Grown under Hydroponic Conditions
PP 28	J. Umadevi Dr. YSR Horticultural University, Venkataramanna gudem, Andhra Pradesh	Molecular and physiological mechanisms underlying the grafting
PP 29	Ananya Roy University of Calcutta, Kolkata, West Bengal	In-silico structural & functional analysis of OsGF14E protein
Thome	IV: Plant Products and Medicinal Im	nortance
PP 30	Dr. Pragya Tiwari, Yeungnam University, Republic of Korea Dr. Debleena Roy	Endophytes as efficient and promising bio-resources in medicine, environment and agriculture
PP 31	Lady Brabourne College, Kolkata, West Bengal	Evaluation of the bioactive components of two important edible herbs Green <i>Amaranthus</i> and red <i>Amaranthus</i> thermal processing during home cooking.
PP 32	Arpita Devi Tezpur University, Assam	In silico and in vitro studies to identify plant based molecules as inhibitors of major proteins of "big four" snake venoms.
PP 33	Sejuty Mondal University of Calcutta, Kolkata, West Bengal	Study of genetic diversity in the golden spice, Curcuma longa L.
PP 34	Pinki Tikadar Ranaghat College, Nadia, West Bengal	Characterization of partially purified pectinolytic enzyme produced by <i>Fusarium oxysporum</i> soil isolate
PP 35	Sweta Chakraborty West Bengal State University, West Bengal	PTERIDOPHYTES: Evolutionary Blessings As Ethnomedicinal Plants And Impact of Pharmacogenomic Research On Ferns Of Rural India.
PP 36	Dwaipee De University of North Bengal, West Bengal	Isolation and identification of thearubigin from black tea and development of nanoliposome coated thearubigin for enhanced brain targeting ability towards successful treatment of alzheimer's disease
PP 37	Debasish Sahoo Chhattishgarh Swami Vivekanand Technical University, Bhillai, Chhattishgarh.	Phytochemical and Invitro studies for hydro-alcoholic extract (Soxlet extraction) from leaf sample of <i>Crateva adansonii</i> collected from tribal region of Odisha State.
PP 38	Anjali Gupta Centre of Advanced Study in Botany, Institute of Science, Banaras Hindu	Structural analyses of 3-dehydroquinate synthase (DHQS) and deoxy gadusol synthase (DDGS) proteins for their involvement in mycosporine-like amino acids biosynthesis in cyanobacteria

	University, Varanasi		
PP 39	Pooja Sahu Raipur Institute of Technology, Raipur, Chhattisgarh	Adsorption of Crystal Violet through Bio-adsorbent Mango Seed Shell and Kinetics Study of Mango Seed Shell	
PP 40	Abhijit Das Hooghly Mohsin College, West Bengal	Study of antimicrobial activity of <i>Parthenium hysterophorus</i> , Croton bonplandianum and Lantana camara	
Theme	Theme V: Nanotechnology, Gene Manipulation and Crop Improvement		
PP 41	Apurva Sharma Raipur Institute of Technology Raipur, Chhattisgarh	To identify genetic purity in different bottle gourd cell lines using molecular markers	
PP 42	Nitu Sinha University of North Bengal, West Bengal	Detection of pesticide treated tea samples using carbon nanoparticles	
PP43	Indrani Manna University of Calcutta, Kolkata, West Bengal	Engineered Cerium Oxide Nanoparticle ameliorates phytotoxicity induced by Engineered Nickel Oxide Nanoparticles in <i>Allium cepa</i> L. and <i>Lycopersicon esculentum</i> Mill.	
PP44	Supriya Pandey Kumaun University, Nainital, Uttarakhand	Zinc-nanobiofertilizers: a novel technology for sustainable agriculture	