Day: 3
Date: 27.04.2023 (Thursday)

Technical Session: 8

Topic: Plant Physiology, Bio chemistry Plant Molecular biology and abiotic stress, photosynthesis and productivity, proteomics, Metabolomics Growth regulators, Bioinformatics , and nano-science	Time: 10:30 AM – 5:00 PM	**Venue:** Seminar Hall, Academic Complex (IDA Building)
Chair: Prof. Nandula Raghuram; Professor and Former Dean, School of Biotechnology, Guru Gobind Singh Indraprastha University, New Delhi ; Co-Chair: Dr. M J Baig, ICAR-National Rice Research Institute, Cuttack-753 006, Odisha, India	**Moderator** 1: Dr. Ranjeet Ranjan, Division of Biochemistry, IAR, New Delhi 2: Dr. Sunayana Rathi, Department of Biochemistry, AAU, Johat	Rapporteurs : Dr. Tankeswar Nath, Determent of ABT, AAU, Jorhat Ms. S. Halena Devi, Department of Crop Physiology, AAU, Jorhat

Time allocation:
Total 80 papers
Key note: 15 Min – 4 Nos. (60 min)
Lead lecture: 12 Min - Nil
Invited talk = 10 Min – 4 Nos.
Oral = 8 Min – 35 Nos. (280 min, 4 Hrs 40 min)
Panel discussion: 30- 60 Min
Poster session: after completion of oral presentation
Poster will be judge after completion after completion of oral presentation – 37 Nos.

Papers to be presented: Plant Physiology and Plant Molecular Biology

S.No.	Topic	Affiliation	Email ID	Mode
1.	Microrna-mediated ethylene-induced retrograde signal regulates poor grain filling in contrasting RIL rice genotypes.	EkamberKariali School of Life Sciences, Sambalpur University, Jyotivihar, Sambalpur, 768019, Odisha, India	ekamberk@rediffmail.com	Key note
2.	Bioprospecting of novel ligninolytic bacteria for effective bioremediation of agricultural by-product and synthetic pollutant dyes	Devendra Jain[1*] and Santosh Ranjan Mohanty[2] [1]All India Network Project on Soil Biodiversity and Biofertilizers, Department of Molecular Biology and Biotechnology, Rajasthan College of Agriculture, Maharana Pratap University of Agriculture and Technology, Udaipur - 313001, India; [2]All India Network Project on Soil Biodiversity-Biofertilizers, ICAR-Indian Institute of Soil Science, Bhopal- 462038, India	devendrajain@mpuat.ac.in; devroshan@gmail.com	Key note
3.	Characterization of wheat calcium-dependent protein kinase-1 (tacpk-1): hubs in signaling and tolerance under heat stress	Ranjeet R. Kumar[1*], Ravi K. Niraj[1], Nandini G.A.[1], Abhishek Chitranshi[1], Subramanian M.[1], Suneha Goswami[1], Vinutha T.[1], Sudhir Kumar[2], Soora Naresh Kumar[3], Dwijesh Mishra[4], Anil K. Rai[4], Viswanathan C.[2] [1]Division of Biochemistry, [2]Division of Plant Physiology, [3]CESCRA, Indian Agricultural Research Institute, New Delhi Pin 110012 [4]Centre for Agricultural Bioinformatics (CABin), ICAR-Indian Agricultural Statistics Research Institute, New Delhi, India	ranjeetranjaniari@gmail.com	Key note
4.	Discovery and cloning of newly emerged wheat powdery mildew resistant gene (pm69) from tetraploid wild emmer progenitor using long-read complex genome sequencing	Rajib Roychowdhury [1, 2, 3 *], Yinghui Li[1, 2], Zhen-Zhen Wei [1, 2], Tzion Fahima [1, 2] [1] Institute of Evolution, University of Haifa, Mt. Carmel, Haifa 3498838, Israel. [2] The Department of Evolutionary and Environmental Biology, University of Haifa, Mt. Carmel, Haifa 3498838, Israel. [3] Department of Plant Pathology and Weed Research, Institute of Plant Protection, Agricultural Research Organization (ARO) – Volcani Center, Rishon Lezion, Israel., Rajib	,rajibroychowdhury86@gmail.com	Key note
5.	Overexpression of setaria italica C4 photosynthetic genes in rice	M J Baig, Kutubuddin A. Molla, Padmini Swain, Deeptirekha Behera, Alaka Swain, Subhasis Karmakar and Manaswini Dash	mjbaigcrri@gmail.com	Invited

	enhanced photosynthetic and yield-related agronomic parameters	ICAR-National Rice Research Institute, Cuttack-753 006, Odisha, India		
6.	Enhanced production of plant secondary metabolites under biotic and abiotic regimes	Rajasekaran Chandrasekaran* & Kalaivani Thiagarajan Department of Biotechnology, School of Bio Sciences and technology, Vellore Institute of Technology, Vellore – 632014, Tamilnadu, India	drcrs70@gmail.com	Invited
7.	Donor identification in mungbean genotypes tolerant to drought and phosphorus stress and delineation of physiological mechanisms imparting tolerance to combined stress	Renu Pandey[1*], Surendra Kumar Meena[1#], Sandeep Sharma[1], Gayacharan[2], Krishnapriya Vengavasi[3], Harsh Kumar Dikshit[4] [1]Division of Plant Physiology, ICAR-Indian Agricultural Research Institute, New Delhi -110012, India [2] Division of Germplasm Evaluation, ICAR-National Bureau of Plant Genetic Resources, New Delhi -110012, India [3]Division of Crop Production, ICAR-Sugarcane Breeding Institute, Coimbatore – 641007, Tamil Nadu, India [4] Division of Genetics, ICAR-Indian Agricultural Research Institute, New Delhi -110012, India [#]Present Address: ICAR-Indian Institute of Pulse Research, Regional Research Station - Bikaner, Rajasthan, India	renu_pphy@iari.res.in	Invited
8.	Determination of flowering response of rice (*Oryza sativa* L.) genotypestophotoperiod	Sadia Afrin Shupta[1] Tuhin Halder[1] and Mst. Salma Pervin[1] Plant Physiology Division, Bangladesh Rice Research Institute, Gazipur-1701	sshupta692@gmail.com	Invited
9.	Exploring the role of plant U-box E3 ubiquitin ligases in modulating drought and oxidative stresses	Amit Kumar Mishra[#] Assistant Professor, Department of Botany, School of Life Sciences, Mizoram University, Aizawl – 796004	akmishra@mzu.edu.in	Oral
10.	Trait profiling and genotype selection in sesame under moisture deficit stress conditions	Brij Bihari Pandey[1&2*], Arti Guhey[1], Ratnakumar Pasala[2], [1]Indira Gandhi Agricultural University, Raipur, 492012, Chhattisgarh, India [2]ICAR-Indian Institute of Oilseeds Research, Rajendranagar,	brijbiharipandey@gmail.com	Oral

		Hyderabad, Telangana, India		
11.	Physiological and molecular aspects of stress: MappingQTLs for coleoptile length in recombinant inbred lines populations of wheat(*Triticum aestivum* L.)	Godawari Pawar[1], Vishwanathan Chinnusamy[2], Monika Dalal[3], S. Sudhir Kumar[2], Harikrishna[4]and Biswabiplab Singh[2] 1. VNMKV, Parbhani (MS) India, . Division of Plant Physiology, ICAR-IARI, New Delhi; 3. ICAR-NIPB, New Delhi 4. Division of Genetics, ICAR-IARI, New Delhi	gsp.mau@rediffmail.com	Oral
12.	Isolation and characterization of cellulose nanomaterials from jutebastfibers	Kingshuk Dhali [a,b], Fugen Daver [c], Peter Cass [d], Benu Adhikari [a,*] [a]School of Science, RMIT University, Bundoora, VIC 3083, Australia. [b] Department of Post-Harvest Engineering, Faculty Agricultural Engineering, Bidhan Chandra Krishi Vishwavidyalaya, Nadia, W.B., India. [c] School of Engineering, STEM College, RMIT University, Bundoora, VIC 3083, Australia. [d] Manufacturing, Commonwealth Scientific and Industrial Research Organization (CSIRO) Clayton, VIC 3168, Australia	king.info84@gmail.com	Oral
13.	QTL mapping of rice tungro virus resistance in land race, Kumragoir	MA Latif*, SAI Nihad, and MAI Khan Plant Pathology Division, Bangladesh Rice Research Institute (BRRI) Dr. M A Latif,Plant Pathology Division, BRRI, Gazipur-1701.	alatif1965@yahoo.com	Oral
14.	Profiling and characterization of differentially expressed Mirnas under low-N levels in N-tolerant and N-sensitive rice varieties	Mr. MOHD SOHAIL ASHRAF* and Prof. ALTAF AHMAD *Department of Botany, Aligarh Muslim University, Aligarh,	mjsg.ashraf@gmail.com	Oral
15.	Mitochondrial small heat shock protein (mt-SHSP) modulates the tolerance of wheat under multiple stresses	Goswami[1], Vinutha T.[1], Sudhir Kumar[2], Dwijesh Mishra[4], Ranjeet R. kumar*,[1], Soora Naresh Kumar[3], Anil K. Rai[4], Viswanathan C.[1] [1]Division of Biochemistry, [2]Division of Plant Nandini G A.[1], Abhishek Chitranshi[1], Suneha; Physiology, [3]CESCRA, ICAR-Indian Agricultural Research Institute, New Delhi; [4]CABin, ICAR-IASRI, New Delhi,	ranjeetranjanairi@gmail.com	Oral

16.	Field trial assessment and high-throughput metagenomic analysis of petroleum hydrocarbon-contaminated soil sites in Assam, India, for rhizoremediation	Nandita Das and Piyush Pandey Soil and Environmental Microbiology Lab, Department of Microbiology, Assam University, Silchar (788011), Assam, India Piyush Pandey (piyushddn@gmail.com) Nandita Das	(nanditadas753@gmail.com	Oral
17.	Construction of fret-based nanosensor for real-time monitoring of putrescine	Neha Chaurasiya and Altaf Ahmad* Department of Botany, Aligarh Muslim University, Aligarh 202001 India	chaurasiyaneha143@gmail.com	Oral
18.	Microrna775 is involved in regulating growth and stress response in *Arabidopsis thaliana*	Parneeta Mishra* and Sribash Roy* *CSIR-National Botanical Research Institute, Rana Pratap Marg, Lucknow- 226001	pmishra.lfsc54@gmail.com	Oral
19.	Screening and genetic diversity assessment of farmers' varieties of rice of MP using microsatellite and blast linked markers	Sanjeev Meena[1], Radheshyam Sharma*[1], Stuti Sharma[2], Ashish Kumar[2] and R Shiv Ramkrishnan[2] [1]Biotechnology Centre, Jawaharlal Nehru Krishi Vishwa Vidyalaya, Jabalpur, MP- 482004, India; [2]Department of Plant Breeding and Genetics, College of Agriculture, Jawaharlal Nehru Krishi Vishwa Vidyalaya, Jabalpur, MP- 482004, India	radhebiotech88@gmail.com	Oral
20.	Mn speciation of manganese tailing dump: analytical and mineralogical study	Dr Shilpi Jain, Dr Neha Singh, Ekta Mishra Department of Environmental Studies, Faculty of Science, Maharaja Sayajirao University of Baroda, Vadodara – 390002, Gujarat, India	shilpijain55@gmail.com	Oral
21.	Establishment of maize plants under salinity	Shubham Sharma[1], Haroon Rashid Hakla[1], Mohammad Urfan[1], Prakriti Rajput[1], and Sikander Pal[1] [1]Plant Physiology Lab, Department of Botany, University of Jammu, Jammu (J&K) 180006, India,	sikanderpal@jammuuniversiy.ac.in	Oral
22.	Physiological changes and yield responses of green gram	Kamble, A.S.[1],Bhadarge, H.H.[2], Pawar,G.S.[3],Warik, T.D.[4] Collegeof Agriculture, VNMKV, Parbhani-431402, Department: Plant Physiology	avirajkamble1414@gmail.com	Oral

23.	Influence of osmoprotectants for enhancing productivity in bt. Cotton under rainfed conditions	K.N.Pawar University of Agricultural Sciences, Dharwad, Karnataka, India-580005	kasu_pawar@rediffmail.com	Oral
24.		Kiran P. Suthar*[1], Diwakar Singh[1], N. B. Patel[1], J. V. Patel[2] and Rehana Niyaria[1] [1]Department of Plant Molecular Biology and Biotechnology, ASPEE College of Horticulture, Navsari Agricultural University, Navsari 396 450, Gujarat, India [2]Agronomy Farm, N. M. College of Agriculture, Navsari Agricultural University, Navsari 396 450, Gujarat, India	kiransuthar@nau.in	Oral
25.	Effect of foliar application of salicylic acid on certain morpho-physiological, biochemical and yield parameters of kharif maize (*Zea mays* L.) grown under rainfed condition.	Bukke Vishnu Naik(1), Md. Afjal Ahmad (2), Prateek Sanodia(3), Madhusudhana Reddy K N (4),Manju Jat (5). (1,2,4,5)Department Of Plant Physiology (3) Department Of Agronomy, Institute of Agricultural Sciences, Banaras Hindu University, BHU, Varanasi, Uttar Pradesh-221005	afjalahmad@bhu.ac.in	Oral
27.	On station and on farm performance of photo-insensitive lablab bean [*Lablab purpureus* (L.) Sweet] genotypes during summer	M S Islam[1*], B Debnath[1], D Debnath[2] and M Z Akhi[3] Department of Horticulture, Sylhet Agricultural University, Bangladesh	shahidulhrt@gmail.com	Oral
28.	Foliar application of micro nutrients and plant growth regulators on growth, yield and quality of grape (*Vitis vinifera* L.)	Mallikarjun G. Awati, Rakesh M., Anand Nanjappanavar, Sateesh Pattepur and Veeresh M. Hiremath, Dept. of Biotechnology and Crop Improvement, Fruit Science and Post-harvest Management, College of Horticulture, Bagalkot-587104, Karnataka state, India	mgawati@gmail.com	Oral
29.	Performance of teff (eragrostis tef [zucc.] Trotter) under different planting geometry and nutrient management	Manjunath S Melavanki Department of Agronomy, College of Agriculture, University of Agricultural Sciences, Bengaluru 560 065, Karnataka, India	manjumelavanki366@gmail.com	Oral
30.	Heat stress modulating starch, resistant starch synthesis and sugar metabolism in potato tuber	Milan KumarLal*[1], Rahul Kumar Tiwari[1], Dharmendra Kumar[1], Sushil Sudhakar Changan[1], Ravinder Kumar[1], Asha Thakur[1], Vandana Parmar[1], Awadhesh Kumar[2], Som Dutt[1], Brajesh Singh[1]	milan.lal@icar.gov.in milan2925@gmail.com	Oral

		[1]ICAR-Central Potato ResearchInstitute, Shimla, HimachalPradesh,India; [2]ICAR-National Rice Research Institute, Cuttack, Odisha, India		
31.	Phenolic-mediated salinity stress tolerance in desi cotton (*Gossypium herbaceum* L.) At seedling stage	Morey Akshay Bhagwat[1], Rajkumar BK[2]*, Preeti R Parmar[2]., HR Ramani[2],Kiran Suthar[3], [1]Department of Plant Molecular Biology and Biotechnology, NMCA, NAU, Surat, Gujarat, India [2]Main Cotton Research Station, NAU, Surat, Gujarat, India [3]Department of Plant Molecular Biology and Biotechnology, ACH, NAU, Navsari, Gujarat, India	rajkumar@nau.in	Oral
32.	Flavonoids and pubescent hairs as UV-B screens towards UV-B resistance in contrasting rice cultivars	Preetam Kumar Senapati[1], Kuntala Kisan[2], Ankita Kerketta[3] and EkamberKariali* School of Life Sciences, Sambalpur University, Jyoti Vihar, Sambalpur, 768019, Odisha, India.	preetamsenapati123@gmail.com	Oral
33.	Studies on effect of biostimulator efficacy for morphophysiological parameters and yield of soybean (*Glycine max* L.)	Snehal Gambhire *; D.G. Dalvi, G.S. Pawar, S.P. Mehtre Department of Agricultural Botany, VNMKV, Parbhani,	snehalgambhire1999@gmail.com	Oral
34.	Deciphering the phenologicaland yield related traits for the selection of both vegetative and reproductive stages drought tolerant donors in rice	Soumya Kumar Sahoo[1]*, Goutam Kumar Dash[2], Padmini Swain[3], Awadhesh Kumar[3], MirzaJaynul Baig[3], Arti Guhey[4], Saroj Kumar Mohanty[1] 1. Department of Crop Physiology, Institute of Agricultural Sciences, Siksha 'O' Anusandhan University, Bhubaneswar-751029, Odisha 2. Department of Biochemistry and Crop Physiology, MS Swaminathan School of Agriculture, Centurion University of Technology and Management, Paralakhemundi-761211, Odisha 3. Crop Physiology and Biochemistry Division, ICAR-National Rice Research Institute, Cuttack-753006, Odisha 4. Department of Plant Physiology, Indira Gandhi KrishiViswavidyalaya, Raipur-492012, Chhattisgarh,	sahoosoumya5@gmail.com	Oral
35.	Seed priming with zinc oxide nanoparticles confers better	Shailesh Kumar*[1], Dayanji Sherpa[1], Sweta Mishra[2], Brahmputra Meena[1] andShikha Kumari[1]	shailesh_agri@yahoo.com	Oral

	tolerance under salinity stress in early seedling growth of mungbean genotype	[1]Department of Botany, Plant Physiology and Biochemistry, [2]Department of Plant breeding and Genetics Dr. Rajendra Prasad Central Agricultural University, Pusa (848125), Samastipur, Bihar, India		
36.	Green synthesis and characterization of zinc oxide nanoparticles using Moringa leaf extract	Swapnil Srivastava, RS Sengar, Krishanu and Shalini Gupta Department of Agricultural Biotechnology, College of Agriculture Sardar Vallabhbhai Patel University of Agriculture and Technology, Meerut	srivastavaswapnil50@gmail.com, sengarbiotech7@gmail.com	Oral
37.	Biosynthesis and characterization of nanocellulose from paddy straw for smart delivery of plant health materials	Krishti Rekha Puzariand Pranab Dutta \ School of Crop Protection, College of Post Graduate Studies in Agricultural Science, Central Agricultural University (Imphal), Umiam, Meghalaya (793103), India	krishtipuzar6@gmail.com, pranabdutta74@gmail.com	Oral
38.	The effects of NaCl stress on wheat under hydroponics culture	Vipul Teotia, Vaidurya Pratap Sahi[1], Altaf Ahmad[2] [1]Department of Genetics and Plant Breeding, Sam Higginbottom University of Technology And Sciences, Prayagraj, UP, INDIA [2]Department of Botany, Aligarh Muslim University, Aligarh,UP, INDIA	vipulteotia90@gmail.com	Oral
39.	Characterization of putative nitrite reductase gene and elucidating its role in nutrient uptake and grain quality of wheat under eco_2 and heat stress	Abhishek Chitranashi[1], Nandini GA[1], Vijayalakshmi Suryavanshi1, G. Mallesh1, Suneha Goswami[1], Vinutha T.[1], Lekshmy S.[2], Ranjeet R. Kumar*[1], Rakesh Pandey[2], Viswanathan C.[2], [1]Division of Biochemistry, [2]Division of Plant Physiology, ICAR-Indian Agricultural Research, Institute, New Delhi,	ranjeetranjaniari@gmail.com	Oral
40.	Lamp assay for detection of blast disease in rice (*Oryza sativa* L.)	Aditi Dwivedi[1], Kiran P. Suthar*[1], Diwakar Singh[1], Rajkumar B.K.[2] and Rehana Niyaria[1] [1]Department of Plant Molecular Biology and Biotechnology, ASPEE College of Horticulture, Navsari Agricultural University, Navsari 396 450, Gujarat, India [2]Main Cotton Research Station, Navsari Agricultural University, Surat 395003, Gujarat, India	dwivediaditi98@gmail.com	Oral

41.	Deciphering the phonological and yield related traits for the selection of both vegetative and reproductive stages drought tolerant donors in rice	Soumya Kumar Sahoo[1]*, Goutam Kumar Dash[2], Padmini Swain[3], Awadhesh Kumar[3], MirzaJaynul Baig[3], Arti Guhey[4], Saroj Kumar Mohanty[1] 1. Department of Crop Physiology, Institute of Agricultural Sciences, Siksha 'O' Anusandhan University, Bhubaneswar-751029, Odisha 2. Department of Biochemistry and Crop Physiology, MS Swaminathan School of Agriculture, Centurion University of Technology and Management, Paralakhemundi-761211, Odisha 3. Crop Physiology and Biochemistry Division, ICAR-National Rice Research Institute, Cuttack-753006, Odisha 4. Department of Plant Physiology, Indira Gandhi KrishiViswavidyalaya, Raipur-492012, Chhattisgarh	sahoosoumya5@gmail.com	Oral
42.	Root phenes: identification and applications for abiotic stress improvement in maize	Shubham Sharma, Mohammad Urfan, Prakriti Rajput, Sikander Pal Department of Botany, University of Jammu, Jammu (J&K) 180006, INDIA	sikanderpal@jammuuniversity.ac.in	Oral
43.	Morpho-physiological attributes of wheat (*Triticum aestivum* L.) as influenced by plant growth regulatorsandfertilizer application	Daminee,Dr.V.B.Kuruwanshi andDr.L.K.Ramteke DepartmentofPlantPhysiology,AgriculturalBiochemistryandMedicinalandAromaticPlants,Collageof Agriculture,IGKV,Raipur,Chhattisgarh,India	damineeverma89203@gmail.com	Oral
44.	Proteome analysis of *Oryza sativa* (L.) (rice) under low nitrogen levels	*Afreen Akhtar and Prof. Altaf Ahmad	meafreen.11@gmail.com	Poster
45.	Localization pattern of apelin and apelin receptor proteins in the ovary of letrozole induced hyperandrogenised female mice: an immunohistochemical study	Anima Borgohain and Vikas Kumar Roy* Department of Zoology, Mizoram University, Aizawl, Mizoram - 796004, India	animabg46@gmail.com, vikasroy4araria@yahoo.co.in, vikasroy4araria@gmail.com	Poster
46.	Evaluation of some chickpea	Priyanuj Baruah, Dr. Prakash Kalita	priyanujbaruah2025@gmail.	Poster

	genotypes under delayed sowing situation in simulated soil moisture condition	Assam Agricultural University, Jorhat,Assam-785001	com	
47.	Protein folding- problems and consequences in plants	Aryasree R Assam Agril, University	aryasree.r.amj21@aau.ac.	Poster
48.	Elevated CO_2 induced DNA methylation regulated gene expressionin *Arabidopsis thaliana* populations originating from contrasting elevation	Ashwani Kumar Verma[1,2], Sribash Roy[1,2] 1.Genetics and Molecular Biology Division, CSIR-National Botanical Research Institute, Lucknow, 226001, India. 2.Academy of Scientific and Innovative Research (AcSIR), Ghaziabad, 201002, India	vermaashwani1995@gmail.com	Poster
49.	ROS-dependent BAX/BCL2 and CASPASE-3 pathway-mediated apoptosisin liver and kidney induced by copper nanoparticles in Swiss albino mice.	BhanushreeBaishya[2,*], Dinata Roy[3], Vikas Kumar Roy[4], Guruswami Gurusubramanian[1] Department of Zoology, Mizoram University, Aizawl-796004Department of Zoology, Mizoram University, Aizawl-796004 Department of Zoology, PDUAM, Tulungia, Bongaigaon- Department of Zoology, Mizoram University, Aizawl-796004 , Department of Zoology, Mizoram University, Aizawl-796004	[2]bhanushreebaishya55@gmail.com , gurus64@yahoo.com, [3]dinataroy9@gmail.com, [4]vikasroy4araria@gmail.com	Poster
50.	Nutrient profiling of different varieties/germplasmin moringa (*Moringa oleifera*L.).	BishnupriyaBorkakoty,RajNarayanKewat DepartmentofBiochemistry,ANDUAT,Kumarganj,Ayodhya,UttarPradesh	bishnupriya.sivasagar@gmail.com	Poster
51.	Analysis on molecular diversity of biotic stress resistance and yield related traits in rice	Bupalli Sathwik,Merentoshi[1], Koppisetti Satya Giri [1]*,Pankaj Kumar Shah [1], and Waluniba[1] [1]Department of Genetics and Plant Breeding, School of Agricultural Sciences and Rural Development, Nagaland University, Medziphema, Nagaland.	satyagiri672@gmail.com	Poster
52.	Transcriptional regulation of plant secondary metabolites production during stress condition	Debasmita Nath, Department of Plant Breeding and Genetics, Assam Agricultural University, Jorhat.	debasmita.nath.amj21@aau.ac.in	Poster
53.	Role of zinc solubilizing bacteria in improving zinc status	Jana Jayaprakash[*1], Aditi Dwivedi[1], Kiran P. Suthar[1], M. D. Khunt[2],V. B. Parekh[3], andNilima Karmakar[4]	jayaprakash.jana2000@gmail.comm	Poster

	in rice	[1]Department of Plant Molecular Biology and Biotechnology, ASPEE College of Horticulture, Navsari Agricultural University, Navsari 396 450, Gujarat, India [2]Department of Biochemistry, N. M. College of Agriculture, Navsari Agricultural University, Navsari 396 450, Gujarat, India [3]Department of Basic Sciences, College of Forestry, Navsari Agricultural University, Navsari 396 450, Gujarat, India [4]Department of Biochemistry, N. M. College of Agriculture, Navsari Agricultural University, Navsari 396 450, Gujarat, India,		
54.	Detection of anatoxin-producing cyanobacterial genera in freshwater bodies of North-East India using molecular based PCR and rt-qPCR tools	Jimasree Rava[1], Ajitabh Bora [1*], Jadab Rajkonwar[2] and D V Kamboj[1] [1] DRDO-Defence Research Laboratory, Tezpur - 784 001, India [2]Assam University Diphu Campus, Karbi Anglong - 782462, India	ajitabhbora@gmail.com	Poster
55.	Improvement of sugarcane(*Saccharum officinarum*) through tissue culture	Krishanu*, Akansha Singh, ShailendraPratap Singh, KushagraYadav and R.S Sengar Department of Agriculture Biotechnology College of Agriculture SardarVallabhbhai Patel University of Agriculture and technology, Meerut 250110	krishanusingh444@gmail.com	Poster
56.	Molecular acarology	Nasreen Hussain and Sahidur Rahman 1,2,Dept.of Entomology, Assam Agricultural University,Jorhat-785013,Assam	hussainnasreen.2@gmail.com	Poster
57.	Detection and quantification of manganese ions with fret-based genetically encoded nanosensor	Neha Agrawal, Mohd Mohsin[1] and Altah Ahmad[2] [1]Department of Biosciences, Jamia Millia Islamia, New Delhi, INDIA [2] Department of Botany, Aligarh Muslim University, Aligarh, INDIA	nehajmi2010@gmail.com	Poster
58.	Apoptosis in plant cells			
59.	Phosphorus uptake efficiency of rice genotypes with or without	NishantaJyotiKhargharia Department of Biotechnology, Assam Agricultural University, J	nishanta.khargharia.amj21@aau.ac.in	Poster

	qtlPUP1 loci in response to fertilization regimes under low P acid soil	785013		
60.		Oyem Taki [1], DwipendraThakuria[1,*], Mayank Rai [2] and Samarendra Hazarika [3] [1] School of Natural Resource Management, [2] School of Crop Improvement, CAU - College of Post Graduate Studies in Agricultural Sciences, Umiam, 793103, Meghalaya. [3] Soil Science, Division of System Research and Engineering, ICAR Research Complex for Northeastern Hill Region, Umiam, 793103, Meghalaya	thakuria.dwipendra@yahoo.co.in	Poster
61.	Rna mediated post transcriptiopnal gene silencing in plants	Ratna Kishore Das Department of Agricultural Biotechnology, AAU, Jorhat	ratnakishore.das.amj21@aau.ac.in	Poster
62.	Low N inducedchangesintheexpression patternofleafproteomeof riceunderelevatedCO2through proteomics approach	RituChaudharyandAltafAhmad DepartmentofBotany,AligarhMuslimUniversity, Aligarh-202001,UP,India	ritudagur02@gmail.com	Poster
63.	Expression pattern of proteins in rice varieties under differentnitrogen treatments	Sana Basri,AltafAhmad* DepartmentofBotany,AligarhMuslimUniversity, Aligarh,Uttar Pradesh,India-202002	sana.basri8270@gmail.com	Poster
64.	Effect of high temperature on microrna mediated phosphorus starvation tolerance in rice	Sandeep Sharma[1#], Lakshmi Raj[1#], Parimalan Rangan[2], Renu Pandey[1*] [1] Division of Plant Physiology, ICAR-Indian Agriculture Research Institute, New Delhi 110012, India [2]National Bureau of Plant Genetic Resources, Pusa Campus, New Delhi, India	renu_pphy@iari.res.in	Poster
65.	Biogenic synthesis and characterization of selenium nanoparticles using	Sheary Somam Tete[1],Showkat A Mir[1], Binata Nayak[1*] [1]School of Life Sciences, Sambalpur University, Odisha, 768019 Dr (Mrs.) Binata Nayak	binatanayak@suniv.ac.in, shearysomam99@suniv.ac.in	Poster

	cyanobacterial species and evaluation of its anti-bacterial and photocatalytic activities			
66.	Molecular biology of plant and animal, physiological and molecular aspects of stress, stress concept in biology, phyto-remediation and nutrition stress.	Warik T.D.[1] Pawar.G.S.[2], Mehtre S.P.[3] and Gambhire S.M.[4] College of Agriculture, Vasantrao Naik Marathwada Krishi Vidyapeeth, Parbhani-431402	tejuwarik@gmail.com	Poster
67.	Brassinosteroid and its significance in agriculture	Bibha Changmai Dept. of Crop Physiology Assam Agricultural University	bibhachangmai439@gmail.com	Poster
68.	Root morphological study of finger millet [*Eleusine coracana*(L.) Gaertn.] subjected to water deficit and high temperature stress	ChandranshuKastury*, Shailesh Kumar, Rajeev NayanBahuguna, Sweta Mishra *Department of Botany, Plant Physiology & Biochemistry, College of Basic Sciences & Humanities, Dr. Rajendra Prasad Central Agricultural University, Pusa, Samastipur, Bihar. -848125	chandranshu.kastury@gmail.com	Poster
69.	Photoprotective role of ascorbic acid under high temperature stress in wheat crop (*Triticum aestivum* L.)	Data Ram Saini[1*], Pramod Kumar[2], Pravin Prakash[1] and Madan Pal Singh[2]. 1. Department of Plant Physiology, I. Ag. Sc., Banaras Hindu University, Varanasi, UP 2. Division of Plant Physiology, ICAR-Indian Agricultural Research Institute, New Delhi	sdsr06@bhu.ac.in	Poster
70.	Intervention of crop productivity through some physiological approaches	Hidangmayum Priyanka Devi Assam Agricultural Univesity	priyankahidang448@gmail.com	Poster
71.	Effect of heat stress on stem reserve mobilization in different rice genotypes	Kabita Saikiaand P. C. Dey Deptt. of Crop Physiology, AAU, Jorhat: 785013	kabitasaikia75@gmail.com	Poster
72.	Interactive effects of polyamines and Rhizoglomus intraradicesin modulating growth, polyamines biosynthesis, and yield onnickel stress in *Cajanus cajan*	Kiran Saroy[1] and Neera Garg Department of Botany, Panjab University, Chandigarh-160014	kiransaroy747@gmail.com	Poster

	(pigeonpea) genotypes			
73.	Multiple cropping system: a physiological perspective	Priyanka Boruah, Assam Agricultural university, Jorhat	priyanka.boruah.adj20@aau.ac.in	Poster
74.	Primary and secondary effects of abiotic stress imbalances on plant growth and development	Swapnil Srivastava[1], RS Sengar[1], Kushagra Yadav[1] and Anant Sharma[2] [1]Department of Agricultural Biotechnology, [2]Department of Agronomy, College of Agriculture,Sardar Vallabhbhai Patel University of Agriculture and Technology, Meerut	srivastavaswapnil50@gmail.com, sengarbiotech7@gmail.com	Poster
75.	Foliar application of micro nutrients and plant growth regulators on growth, yield and quality of grape (*Vitis vinifera* L.)	Mallikarjun G. Awati, Rakesh M., Anand Nanjappanavar, Sateesh Pattepur and Veeresh M. Hiremath Dept. of Biotechnology and Crop Improvement, Fruit Science and Post-harvest Management, College of Horticulture, Bagalkot-587104, Karnataka state, India	mgawati@gmail.com	Poster
76.	Green synthesis of silver nano-particles (AGNPS) from Phlogocanthus thyrsiflorus for management of Oligonychus coffeae Nietner (Acarina: Tetranychidae)	Asma Begum* and Surajit Kalita Department of Entomology, Assam Agricultural University, Jorhat-785013, Assam	asma.begum.amj21@aau.ac.in	Poster
77.	Biochemical evaluation of few potato (*Solanum tuberosum*L.) genotypes of Assam	Arunav Khound[1]*, Khanin Pathak[1], Samindra Baishya[1], Akhill Ranjan Baruah[2]. S.Helena Devi[3] [1] Department of Biochemistry and Agricultural Chemistry, Assam Agricultural University, Jorhat-13. [2] Department of Agricultural Biotechnology, Assam Agricultural University, Jorhat-13. [3] Department of Crop Physiology, Assam Agricultural University, Jorhat-13.	arunavkhound7@gmail.com	Poster
78.	Assessment of rice starch structural and physico-chemical	Vishwa Jyoti Baruah[1], Bhaswati Sarmah[2,*] [1]Centre for Biotechnology and Bioinformatics, Dibrugarh	bhaswati.sarmah@aau.ac.in	Poster

	architecture for varied digestibility and nutraceutical applications	University, Dibrugarh-786004, Assam [2]Department of Plant Breeding and Genetics, Assam Agricultural University, Jorhat-785013, Assam		
79.	Amelioration of moisture stress in upland rice by application of silicon	Rajjak Hussain, Ranjan Das, Chandan A.S Department of Crop Physiology Assam agricultural University, Jorhat-13	rajjakhussain66@gmail.com	Poster
80.	Physiological changes and yield responses of green gram	Kamble, A.S.[1],Bhadarge, H.H.[2], Pawar,G.S.[3],Warik, T.D.[4] Jadhav A.B.[5] Department of Plant Physiology, Collegeof Agriculture, VNMKV, Parbhani-431402	avirajkamble1414@gmail.com	Poster

Panel Discussion

Topic: Reimagining the potential of plants for a healthy and sustainable future through advanced technique

Panelists:

1) Prof. Nandula Raghuram; Role: Chair ; Affiliation: Professor and Former Dean, School of Biotechnology, Guru Gobind Singh Indraprastha University, New Delhi ;
2) Dr. M J Baig, ICAR-National Rice Research Institute, Cuttack-753 006, Odisha, India
3) Dr. Ranjeet Ranjan, Division of Biochemistry, IARI, New Delhi
4) Devendra Jain[1*] and Santosh Ranjan Mohanty, [1]All India Network Project on Soil Biodiversity and Biofertilizers, Department of Molecular Biology and Biotechnology, Rajasthan College of Agriculture, Maharana Pratap University of Agriculture and Technology, Udaipur - 313001, India
5) Rajasekaran Chandrasekaran, Department of Biotechnology, School of Bio Sciences and Technology,Vellore Institute of Technology,
6) Renu Pandey, Division of Plant Physiology, ICAR-Indian Agricultural Research Institute, New Delhi -110012, India
7) Dr. Sibash Roy, Scientist CSIR-NRRI, Lucknow

*****Chairperson and Co-chairperson will judge both oral and poster presentation session.

*After completion of the oral presentations, the poster presentations will be judged.

* Rapporteurs will submit the proceedings same day to Dr. P. K. Barua, Professor, PBG & Chairman, Technical Committee covering the particulars of presented papers, results and outcome of the sessions. (mail id:purna.barua@aau.ac.in)