

Friday, 4th August 2017

09:00 - 9:20 AM Lightening of Lamp and Vandana
Welcome Address
 Inaugural Speech: Dr. Niranjana Chakraborty
 Vote of thanks

1st Session

09:20 - 11:00 AM **Chairperson: Arunima Mahto**

09:20 – 09:40 AM The stress induced Mitogen Activated Protein Kinase (MAPK) modulates crosstalk between microRNA and ABA signaling in *Arabidopsis thaliana*.

Prakash Kumar Bhagat

09:40 – 10:00 AM Comparative study of two component system (TCS) in legumes and characterization of their role in cytokinin signaling during root nodulation in chickpea.

Manish Tiwari

10:00 – 10:20 AM Molecular characterization of contrasting root architecture of selected *indica* rice cultivars

Pramod Kumar

10:20 – 10:40 AM Molecular dissection of major yield contributing quantitative traits in chickpea

Shouvik Das

10:40 – 11:00 AM Structural and functional evolution of plant gene families encoding proteins with Histone Fold Motif (HFM)

Amish Kumar

11:00 – 11:15 AM Tea Break

2nd Session

11:15 – 12:55 PM **Chairperson: Deepti M. Nambiar**

11:15 – 11:35 AM Investigation of regulation of MPK6-MYC2 module in response to blue light and salinity stress in *Arabidopsis thaliana*.

Deepanjali Verma

11:35 – 11:55 AM Covariation of maintenance in physicochemical properties and proteome response to high temperature stress in natural variants of

	wheat (<i>Triticum aestivum</i> L.) Divya Mishra
11:55 – 12:15 PM	Investigations on the interplay of microRNAs and heat stress transcription factors in regulating heat stress response in tomato (<i>Solanum lycopersicum</i> L.) Sombir Rao
12:15 – 12:35 PM	Glucose regulated Arabidopsis <i>HKLI</i> acts as a key molecule in governing thermotolerance Mohan Sharma
12:35 – 12:55 PM	<i>AtP5CDH</i> gene plays role in non-host resistance of <i>Arabidopsis thaliana</i> against <i>Pseudomonas syringae</i> Aarzo Qamar
12:55 – 01:40 PM	Lunch Break

3rd Session**01:40 – 03:20 PM Chairperson : Nitin Kamble**

01:40 – 02:00 PM	Molecular characterization of mycophagous activity of antifungal bacteria against <i>Rhizoctonia solani</i> Isha Tyagi
02:00 – 02:20 PM	Glucosinolates and their potential role in plant defense Pawan Kumar
02:20 – 02:40 PM	Study of patho-stress responsive nuclear proteome and metabolome in rice (<i>Oryza sativa</i> L.) Pooja Choudhary
02:40 – 03:00 PM	Understanding the molecular intricacies of Rice- <i>Rhizoctonia solani</i> interactions Srayan Ghosh
03:00 – 03:20 PM	Understanding the defense strategies used by <i>Arabidopsis thaliana</i> for limiting the nutrient availability to bacterial pathogens Urooj Fatima
03:20 – 03:35 PM	Tea Break

4th Session**03:35 – 05:15 PM****Chairperson : Sandeep Yadav****03:35 – 03:55 PM**

Unraveling the pathogenicity determinants of rice sheath blight disease

Kriti Tyagi**03:55 – 04:15 PM**

Interaction between CIPK6 and MAPK pathways in pathogen triggered immunity in Arabidopsis

Megha Choudhary**04:15 – 04:35 PM**

Role of cyclic nucleotide gated channel 13 (CNGC 13) in plant defense against insect herbivory

Ramgopal Prajapati**04:35 – 04:55 PM**

Deciphering the role of stress responsive RNA helicases in tomato against biotic and abiotic stresses

Saurabh Pandey**04:55 – 05:15 PM**

Surviving the odds: Breaching host defense mechanisms by fungal pathogens

Yeshveer Singh

Saturday, 5th August 2017

5th Session

09:30 – 11:10 AM

Chairperson : Pragya Barua

09:30 – 09:50 AM

Dissecting the complex nexus between glucose and hormone signalling in regulating shade avoidance response in *Arabidopsis thaliana*

Archana Tiwari

09:50 – 10:10 AM

Identifying novel players in calcium dependent JA signaling

Deepika Mittal

10:10 – 10:30 AM

Identification and functional characterization of transcription factor(s) involved in temperature signaling in plants

Juhi Bhattacharya

10:30 – 10:50 AM

Investigation of the role of Mitogen Activated Protein Kinase in regulating Argonaute proteins during small RNA dependent gene regulation

Kirti

10:50 – 11:10 AM

SUB1A1-MPK3 mediated submergence tolerance in rice: A deeper look into the intricate nexus

Sumaira Tayyeba

11:10 – 11:25 AM

Tea Break

6th Session

11:25 – 01:05 PM

Chairperson : Arunima Sinha

11:25 – 11:45 PM

Genes involved in the development of flower and seed coat color in chickpea (*Cicer arietinum* L.)

Lalita Pal

11:45 – 12:05 PM

Genetic dissection of complex plant architecture and yield component traits in chickpea

Laxmi

12:05 – 12:25 PM

Role of epigenetic modifier(s) in the development of *Arabidopsis thaliana*

Mahima

12:25 – 12:45 PM Genetic dissection of yield and domestication-related traits in chickpea
Virevol Thakro

12:45 – 01:05 PM Role of selected microRNA(s) in the development of *Arabidopsis thaliana*
Vishnu Mishra

01:05 – 01:50 PM Lunch Break

7thSession

01:50 – 03:30 Chairperson : **Subodh Verma**

01:50 – 02:10 PM Identification and characterization of genes regulating iron content in chickpea (*Cicer arietinum L.*)
Gourav Singh

02:10 – 02:30 PM Tissue-specific manipulation of glucosinolate accumulation in Indian oilseed mustard (*Brassica juncea*) by genetically engineering GTR1 and GTR2 transporters
Juhi Kumari

02:30 – 02:50 PM Role of Purple Acid phosphatases in alleviating P deficiency
Jyoti Bhadouria

02:50 – 03:10 PM Understanding sucrose transport and functional characterization of underlying SWEET transporters for improving crop performance in rice
Jyotirmaya Mathan

03:10 – 03:30 PM Role of membrane lipid remodeling in conferring low Pi tolerance in rice
Lokesh Verma

03:30 – 03:45 PM Tea Break

8thSession

03:45 – 05:05 PM Chairperson : **Archana Yadav**

03:45 – 04:05 PM Comparative physicochemical analyses and nuclear proteome profiling in chickpea (*Cicer arietinum L.*) under high temperature stress

Akanksha Pareek

04:05 – 04:25 PM Elucidation of microRNA-mediated regulatory networks in response to combined heat and drought stress in tomato (*Solanum lycopersicum* L.)

Chandni Bansal

04:25 – 04:45 PM The role of hypoxia induced nitric oxide on protection of plants against pathogen attack

Pradeep Kumar Pathak

04:45 – 05:05 PM Understanding mechanisms of tolerance to combined drought and pathogen infection in chickpea using transcriptomic and gene silencing approaches

Vadivelmurugan Irulappan

06:30 – 08:00 PM **RAINBOW - A cultural event by NIPGR students**

08:00 – 08:30 PM **Concluding remarks and prize distribution**

08:30 PM onwards **Dinner**
