

10-12  
October



Plant Responses to Light and Stress:  
Emerging issues in climate change

## **DAY 1: Wednesday, Oct. 10, 2018**

8:30 – 9:00 AM Registration  
9:00 – 9:15 AM Opening and Welcome Note: **Dr. D.M. Salunke**  
9:15 – 9:30 AM Introductory Remarks: **Dr. Renu Swarup**  
9:30 – 10:15 AM Keynote address: **Prof. Trilochan Mohapatra**

10:15 – 11:00 AM ***GROUP PHOTO 1 and BREAK For TEA/COFFEE***

### **SESSION 1: PHOTOSYNTHESIS AND PHOTOMORPHOGENESIS**

11:00 – 11:40 AM **Prof. Christian Fankhauser**  
Plant strategies for enhancing access to sunlight

11:40 – 12:20 AM **Prof. Sanjay Kumar**  
Altered molecular dynamics in plants along the Himalayan altitudes and environmental cues: implications under climate change scenario

12:20 – 01:00 PM **Dr. Himadri Pakrasi**  
Light Stress on Photosynthetic Organisms: Molecules and Mechanisms

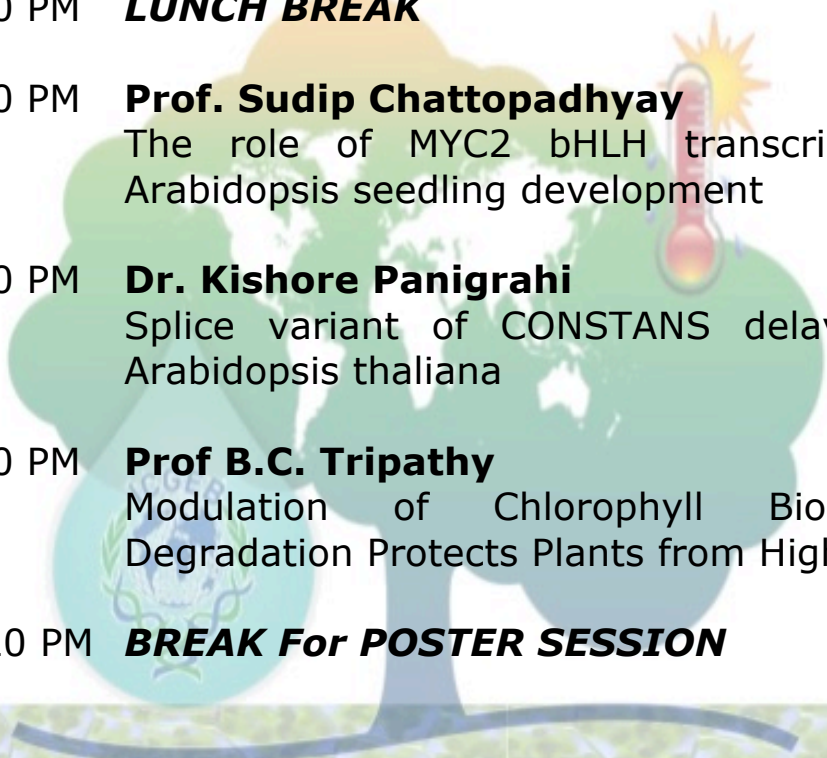
01:00 – 02:00 PM ***LUNCH BREAK***

02:00 – 02:40 PM **Prof. Sudip Chattopadhyay**  
The role of MYC2 bHLH transcription factor in Arabidopsis seedling development

02:40 – 03:20 PM **Dr. Kishore Panigrahi**  
Splice variant of CONSTANS delays flowering in Arabidopsis thaliana

03:20 – 04:00 PM **Prof B.C. Tripathy**  
Modulation of Chlorophyll Biosynthesis and Degradation Protects Plants from High Light

04:00 – 04:20 PM ***BREAK For POSTER SESSION***



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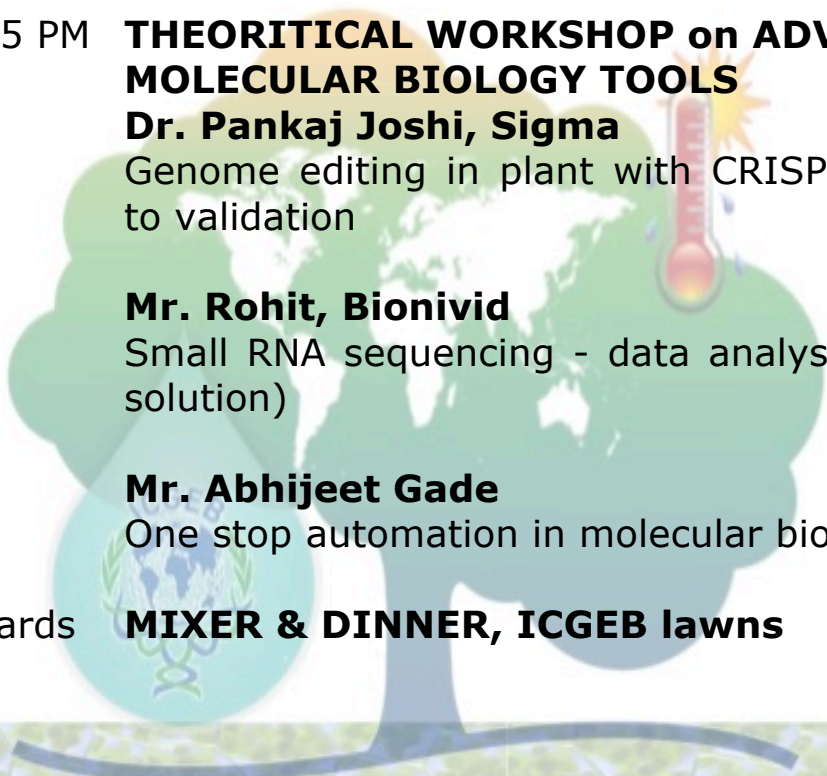


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### ***EVENING TALK AND SELECTED ORAL PRESENTATIONS***

- 04:20 – 05:00 PM **Prof. Ken Yokawa**  
Root Phototropism: How light affects Root Growth
- 05:00 – 05:15 PM **Dr. Aashish Ranjan**  
Developmental and biochemical variations between wild and cultivated rice differing in leaf photosynthesis rate
- 05:15 – 05:30 PM **Dr. Naini Burman**  
OsZIP48 a HY5 Transcription Factor Ortholog Exerts Pleiotropic Effects in Light-Regulated Development.
- 05:30 – 05:45 PM **Dr. Shailendra Pratap Singh**  
Mechanistic Insight of Photomorphogenesis in the Cyanobacterium *Fremyella diplosiphon*
- 05:45 – 06:00 PM **Dr. Vadivel Arunachalam**  
Response of banana varieties to shade in high density areca garden
- 06:15 – 07.15 PM **THEORITICAL WORKSHOP on ADVANCED MOLECULAR BIOLOGY TOOLS**  
**Dr. Pankaj Joshi, Sigma**  
Genome editing in plant with CRISPR/CAS9: Design to validation
- Mr. Rohit, Bionivid**  
Small RNA sequencing - data analysis (challenges & solution)
- Mr. Abhijeet Gade**  
One stop automation in molecular biology
- 7.30 PM onwards **MIXER & DINNER, ICGEB lawns**



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## DAY 2: Thursday, Oct. 11, 2018

### SESSION 2: STRESS BIOLOGY

09:30 – 10:30 AM **Prof. Prakash Kumar**

A molecular regulatory module for establishing desalination barriers in mangrove plant roots

10:30 – 11:00 AM ***BREAK For POSTER SESSION***

11:00 – 11:40 AM **Prof. Ajay Kohli**

Transcriptional, Post-translational and Epigenetic Controls Underlying a QTL for Drought Tolerance, and that is Only Half the Story

11:40 – 12:20 AM **Prof. Jennifer A. Harikrishna**

Improved stress tolerance from a stress-responsive microRNA-regulated gene from banana

12:20 – 01:00 PM **Prof. V. Chinnusamy**

Phenomics, the next generation phenotyping (NGP), for crop improvement

01:00 – 02:00 PM ***LUNCH BREAK***

02:00 – 02:40 PM **Prof. Zeba Islam Seraj**

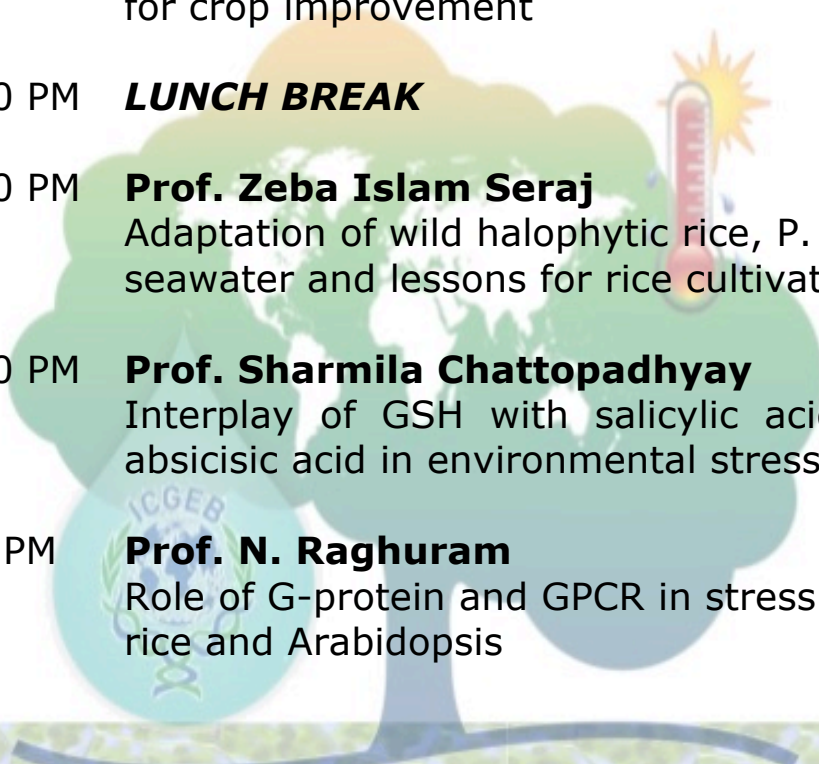
Adaptation of wild halophytic rice, *P. coarctata* to seawater and lessons for rice cultivation in saline soil

02:40 – 03:20 PM **Prof. Sharmila Chattopadhyay**

Interplay of GSH with salicylic acid, ethylene and abscisic acid in environmental stress tolerance

03:20 – 4:00 PM **Prof. N. Raghuram**

Role of G-protein and GPCR in stress responses in rice and Arabidopsis



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04:00 – 04:20 PM **BREAK For POSTER SESSION**

**EVENING TALK AND SELECTED ORAL PRESENTATIONS**

04:20 – 05.00 PM **Prof Hiroyuki Koyama**

Early aluminum signaling in Arabidopsis thaliana. -  
Integration of eGWAS and chemical genetics uncover  
complex mechanism of Al-signaling and its cross-talk

05:00 – 05.15 PM **Dr. Kundan Kumar**

The role of OsWNK9 in conferring increased tolerance  
to salt and drought stress

05:15 – 05.30 PM **Dr. Bijoya Bhattacharjee**

Development of Phosphorous efficient rice:  
Introgression of PUP 1 QTL through Marker assisted  
Backcross Breeding

05:30 – 05.45 PM **Dr. Aisha Wada Abubakar**

Analysis of Yield and Yield Components of Maize  
Hybrids in Response to Low Nitrogen in the Northern  
Guinea Savanna of Nigeria

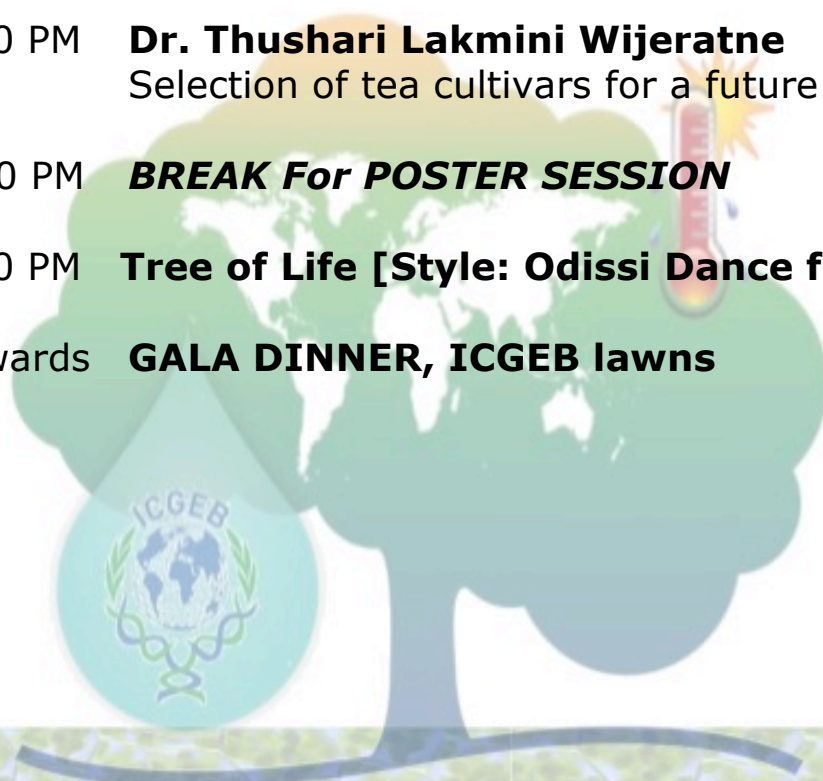
05:45 – 06.00 PM **Dr. Thushari Lakmini Wijeratne**

Selection of tea cultivars for a future tropical climate

06:00 – 06:30 PM **BREAK For POSTER SESSION**

06:30 – 07.30 PM **Tree of Life [Style: Odissi Dance form]**

07.30 PM onwards **GALA DINNER, ICGEB lawns**



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## DAY 3: Friday, Oct. 12, 2018

### **SESSION 3: SMALL RNA REGULATORS**

- 9:30 – 10:10 AM **Prof. Javier Palatnik**  
Control of cellular programs by microRNA networks during plant growth
- 10:10 – 10:40 AM ***BREAK For POSTER SESSION***
- 10:40 – 11:20 AM **Dr. Anjan Banerjee**  
Small RNAs play role in tuber development and defense responses in potato
- 11:20 – 12:00 AM **Dr. Neeti Sanan-Mishra**  
OsamiRs: Microregulators of plant development in stress

### ***SELECTED ORAL PRESENTATIONS***

- 12:00 – 12:15 PM **Prof. Sanjib Kumar Panda**  
Comparative RNA-Seq analysis revealed transcriptional regulation in rice under aluminum stress
- 12:15 – 12:30 PM **Dr. Sribash Roy**  
A pseudoPPR is negatively regulated by a miRNA for phasiRNA biogenesis
- 12:30 – 12:45 PM **Dr. Deepa Jaganathan**  
Structural variations of precursor miRNA 396c in wild rice species may coordinate with its biogenesis and miRISC recruitment
- 12:45 – 01:00 PM **Dr. Eugene Alexandrovich Rogozhin**  
Thionins from black cumin (*Nigella sativa* L.) as novel antifungals and insectotoxins
- 01:00 – 2:00 PM ***LUNCH BREAK***

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## **SESSION 4: PLANT PRODUCTIVITY UNDER CLIMATE CHANGE**

2:00 – 2:40 PM

**Prof. William Paul Quick**

Manipulation of water use efficiency in rice

2:40 – 3:20 PM

**Prof Akhilesh K. Tyagi**

My encounters with water-deficit stress in rice!

3:20 – 4:30 PM

**PANEL DISCUSSION for FUTURE DIRECTIONS**

Prof Sudhir K. Sopory, ICGEB

Prof Manoj Dhar, Jammu University

Prof Ramesh V. Sonti, NIPGR

Prof Akhilesh K. Tyagi, Delhi University

Prof Jitendra P. Khurana, Delhi University

Prof Paul Quick, IRRI

4:30 PM

**GROUP PHOTO 2**

**CLOSING**

