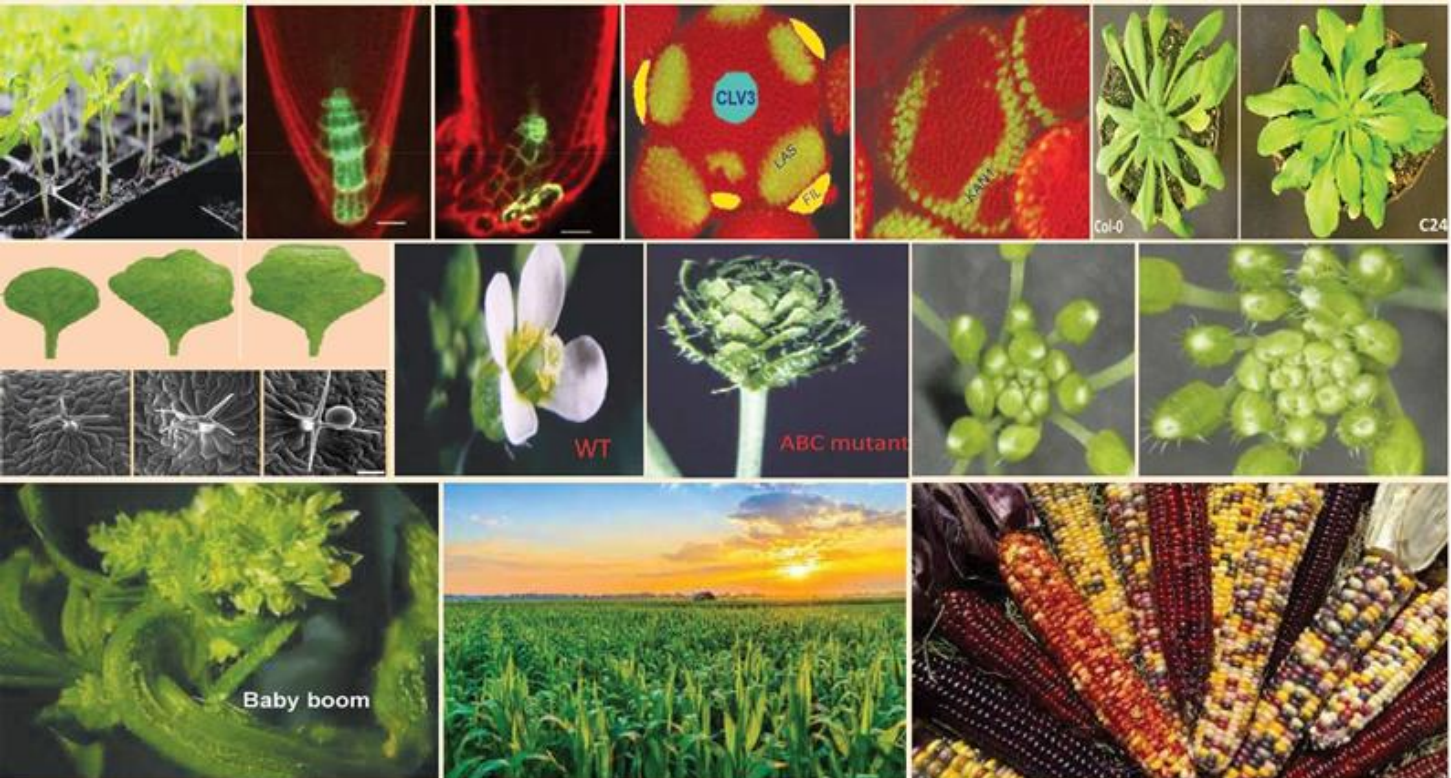




International Webinar on
“PLANT DEVELOPMENTAL PLASTICITY:
A MOLECULAR PERSPECTIVE”



PDPAMP 2021
27-29 September 2021



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For FREE Registration: <https://forms.gle/oexEfBSN3UA2KFgC6>

Jointly organized by

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Indian Institute of Science Education
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The development of a multicellular plant is mediated by sophisticated and co-ordinated developmental events such as controlled cell division, cell differentiation and morphogenesis. These three events determine the architecture of an individual plant or its organs in response to intrinsic genetics factors and extrinsic environmental cues. During this process, complex regulatory networks control the spatiotemporal positioning of different cell types (cell fate determination and tissue pattern formation) to generate a fully developed whole plant. How plants integrate information from external factors to their internal genetic regulatory module to shape its architecture is the most intriguing question in plant developmental biology. Classical morphological observations revealed some information on morpho-histo-cytological changes associated with development of plants in various groups across the plant kingdom. Now, with the advent of latest technologies in biology and its allied fields, scientists have begun to discover the importance of transcriptional regulatory networks, intrinsic signals such as plant hormones and extrinsic signals like environmental stimuli and mechano-sensing in shaping the plant bodies. Thus, understanding how the ‘fittest plant’ evolved combining the two contrasting features such as “robustness” versus “plasticity” is an open question even today, which is the prime focus of the current meeting. Such developmental plasticity/robustness is mainly responsible for the adaptive nature of a plant, which in turn determines the plant productivity, the ultimate goal of any plant biologist. Hence, unraveling the plant developmental regulatory mechanisms, various signaling mechanisms involved thereof in shaping the elite and non-elite phenotypes could be very useful in the development of sustainable green technologies.

The present international webinar on **“PLANT DEVELOPMENTAL PLASTICITY: A MOLECULAR PERSPECTIVE”** stems from above observations with the following sub-themes.

Sub-themes:

- Seed development, dormancy and germination
- Cell fate and tissue patterning in development of shoot, root and leaf
- Shoot and root apical meristem activity and indeterminate growth habit
- Plant vasculature tissue patterning
- Cell fate and tissue patterning in flower and gametophyte development
- Evolution of MADS-box genes and flowering in plants
- Photoperiodism and long-distance signal transduction
- Signaling and crosstalk in plant development
- Transcriptional and epigenetic regulation of plant development and senescence
- Developmental plasticity and environmental signals
- Cell-cell communication and cellular specialization

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- **Prof. G. Venugopala Reddy**, University of California, Riverside, USA.
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- **Prof. Sureshkumar Balasubramanian**, Monash University, Australia.
- **Dr. Sridevi Sureshkumar**, Monash University, Australia.
- **Prof. Chamari Hettiarachchi**, University of Colombo, Sri Lanka.
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- **Prof. P. Suprasanna**, BARC, Mumbai.
- **Prof. Utpal Nath**, IISc, Bengaluru.

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LIST OF SPEAKERS CONSENTED FOR THE INTERNATIONAL WEBINAR

1. **Prof. Usha Vijay Raghavan**, IISc- Bengaluru.
2. **Prof. Ramesh V. Sonti**, IISER- Tirupati.
3. **Prof. Sudip Chattopadhyay**, NIT- Durgapur.
4. **Prof. M.V. Rajam**, Delhi University (SC)- New Delhi.
5. **Prof. P. Suprasanna**, BARC- Mumbai.
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9. **Prof. Sureshkumar Balasubramanian**, Monash University- Australia
10. **Prof. Chamari Hettiarachchi**, University of Colombo- Sri Lanka.
11. **Dr. Anjan Banerjee**, IISER- Pune.
12. **Dr. Sunil Kumar Singh**, MS University of Baroda.
13. **Dr. Eswarayya Rami Reddy**, IISER- Tirupati.
14. **Dr. Ananda K. Sarkar**, NIPGR- New Delhi.
15. **Dr. Sridevi Sureshkumar**, Monash University- Australia.
16. **Dr. Swarup Roy Choudhury**, IISER- Tirupati.
17. **Dr. Jitendra K. Thakur**, NIPGR- New Delhi.
18. **Dr. Ram Yadav**, IISER- Mohali.
19. **Dr. A. Annapurna Devi**, IISER- Tirupati.
20. **Dr. Aashish Ranjan**, NIPGR- New Delhi.
21. **Dr. Sreeramaiah N. Gangappa**, IISER- Kolkata.
22. **Dr. Ashish Kumar Shrivastava**, BARC- Mumbai.
23. **Dr. Aparna Singh**, BHU- Varanasi.

CALL FOR REGISTRATION

The organizing committee cordially invites registrations from all the participants for the International webinar. All participants are requested to register to the webinar by filling the details in registration form by clicking the link: <https://forms.gle/oexEfBSN3UA2KFgC6>