

An Indo-French plant biology workshop co-organized by ENSs and IISERs:

## Improving growth and productivity under changing environmental conditions



विज्ञान एवं प्रौद्योगिकी विभाग  
DEPARTMENT OF  
SCIENCE & TECHNOLOGY



To be held at the Buisson conference room, Descartes campus, ENS de Lyon, Lyon, France: maps and directions at the end of document

### PROGRAM

DAY1 - Thursday 30/05

**8:30** Welcome time & coffee

**9:00** Teva Vernoux / Annapurna Devi Allu - Introduction and sponsor presentation

### Session 1 - Biochemical and mechanical signaling in development: understanding robustness across scales

**9:15 Yvon Jaillais, ENS de Lyon**

**Title:** Anionic phospholipids across scales: from plasma membrane nanodomains to plant development

**9:30 Sreeram Gangappa, IISER Kolkata**

**Title:** Mechanisms of PIF4 regulation in thermosensory growth and development

**9:45 Charlotte Kirchhelle, ENS de Lyon**

**Title:** From force to form: Mechanics in plant development.

**10:00 Gwyneth Ingram, ENS de Lyon**

**Title:** Decoding the Embryo-Endosperm Dialogue.

**10:15 Yoan Coudert, ENS de Lyon**

**Title:** Development and evolution of biological patterns in plants

**10:30 - 11:15** Coffee break

**11:15 Jose Sebastian, IISER Behrampur**

**Title:** Root system dynamics under a combinatorial stress environment

**11:30 Benoit Landrein, ENS de Lyon**



**Title:** The Mechanics of seed growth control in *Arabidopsis*

**11:45 Marie-Cécile Caillaud, ENS de Lyon**

**Title:** Interplay between the plasma membrane and the cytoskeleton during plant cell division

**12:00 Christophe Godin, ENS de Lyon**

**Title:** Using computational models to understand development: an illustration on cauliflower

**12:15 Teva Vernoux, ENS de Lyon**

**Title:** Time, space and hormonal signals in shoot development

**12:30 - 14:00** Lunch break

## **Session 2 - Epigenetics in Development and stress**

**14:00 Gersende Lepère, ENS-PSL**

**Title:** Using a genetic screen to identify plant susceptible factors

**14:15 Annapurna Devi Allu, IISER Tirupati**

**Title:** Stress to Stress Burst: Mechanisms to enhance stress tolerance in plants

**14:30 Santosh Satbhai, IISER Mohali**

**Title:** ELONGATED HYPOCOTYL 5 interacts with POPEYE and regulates iron homeostasis in *Arabidopsis thaliana*

**14:45 Daniel Bouyer, ENS de Lyon**

**Title:** Impact of DNA methylation dynamics for reproductive success in *A. thaliana*

**15:00 Ram Yadav, IISER Mohali**

**Title:** Cellular stress-responsive factor regulates cytokinin signaling in the shoot apical meristem

**15:15 Lionel Navarro, ENS-PSL**

**Title:** Gene regulation in host-bacteria interactions

**15:00 - 15:45** Flash talks by Docs & Postdocs

**15:45 - 17:30** Lab tour

**17:30 - 19:00** Social - Exchange moment

**19:30** Dinner for invited speakers

## **DAY2 - Friday 31/05**

**9:00** Welcome time & coffee

## **Session 2 - Epigenetics in Development and stress (end)**

**9:30 Sourav Datta, IISER Bhopal**

**Title:** BBX proteins regulating plant development



**9:45 Pierre Baduel, ENS-PSL**

**Title:** Transgenerational epigenetic inheritance in nature

**Session 3 - From model plants to crops**

**10:00 Marie Monniaux, ENS de Lyon**

**Title:** Defining petal identity layer by layer

**10:15 Swarup Roy Chaudhury, IISER Tirupati**

**Title:** Receptor mediated signaling regulate root nodule symbiosis

**10:30 Mohammed Bendahmane, ENS de Lyon**

**Title:** Rose genomics and molecular mechanisms underlying key floral traits

**10:30 - 11:15** Coffee break

**11:15 Ravi Maruthachalam, IISER Thiruvananthapuram**

**Title:** Exploiting uniparental genome elimination for accelerated plant breeding and genetics

**11:30 Anjan Banerjee, IISER Pune**

**Title:** Prospects of Mobile RNAs and proteins in crop productivity: Potato as classic example

**11:45 Eswarayya Ramireddy, IISER Tirupati**

**Title:** Genes to Fields: Root cap and rhizosphere engineering for developing climate-resilient crops

**12:00 Thomas Widiez, ENS de Lyon**

**Title:** Using maize specificities to decipher plant reproduction (from pollen to seed development)

**12:15** Directorial/presidential address:

**Santanu Bhattacharya, Director, IISER Tirupati**

**Emmanuel Trizac, President, ENS de Lyon**

**12:30 - 14:00** Lunch break

**14:00 - 16:00**

Networking and discussions: how to go forward

Closing remarks

**19:30** Dinner with Indian guests



## Maps and directions

How to go to the ENS de Lyon:

<https://www.ens-lyon.fr/en/campus-life/campus-tour/maps-directions>

The Buisson conference room: Location in orange on the map below, indicated BUISSON/IFÉ

