

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

