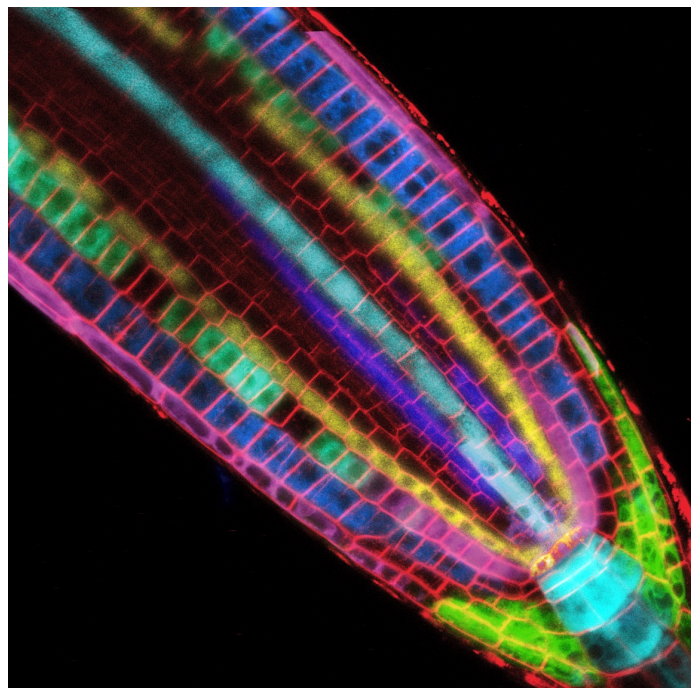


5th LyMiC day

Imaging the plant: challenges and adaptations

22nd of November 2022

Amphitheatre D2, ENS de Lyon, 15 parvis René Descartes Lyon



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Sponsors

9:00 Introduction: Lyon Multiscale Imaging Center: Jean-Louis Bessereau, Denis Ressenkoff, Xavier Jaurand, Jacques Brocard, Marine Breuilly

OPTOGENETICS

10:00 Keynote: Matias Zurbriggen (Synthetic Biology, Düsseldorf)

10:50 **Alice Dufour** (LBMC, Lyon), "Targeted genetic alterations of live cells using light"

11:25 Coffee break

HIGH RESOLUTION IMAGING

11:45 **Giovanni Finazzi** (LPCV, Grenoble), "Phytoplankton bioenergetics investigated at the subcellular scale"

12:20 **Clara Igisch** (RDP, Lyon), "Spatio-temporal regulation of plant Rho GTPase signalling"

12:55 Lunch

14:15 **Jérôme Mutterer** (IBMP Strasbourg),

BIOPHYSICS

14:25 **Valentin Laplaud** (LadHyX, Paris), "High-throughput biophysical measurement in M. polymorpha: imaging in a microfluidic chip"

15:00 **Audrey Beaussart** (LIEC, Nancy), "Imaging microalgae at the nanoscale: an AFM and confocal study"

15:35 **Muriel Grammont** (LBMC, Lyon), "Probing cell mechanical properties with AFM: from plants to flies"

16:10 Coffee break

IMAGE ANALYSIS AND PHENOTYPING

16:30 **Charles Kervrann** (SERPICO, Rennes), "Challenges of intracellular visualization using virtual and augmented reality: Naviscope project"

17:05 **Peter Hanappe** (Sony CSL, Paris), «Computer vision and machine learning for plant observations, from the lab to the field»

17:40 **Marie-Thérèse Charreyre** (Institut Michel Serres, Lyon), "From fluorescent probe design to environmental challenges"

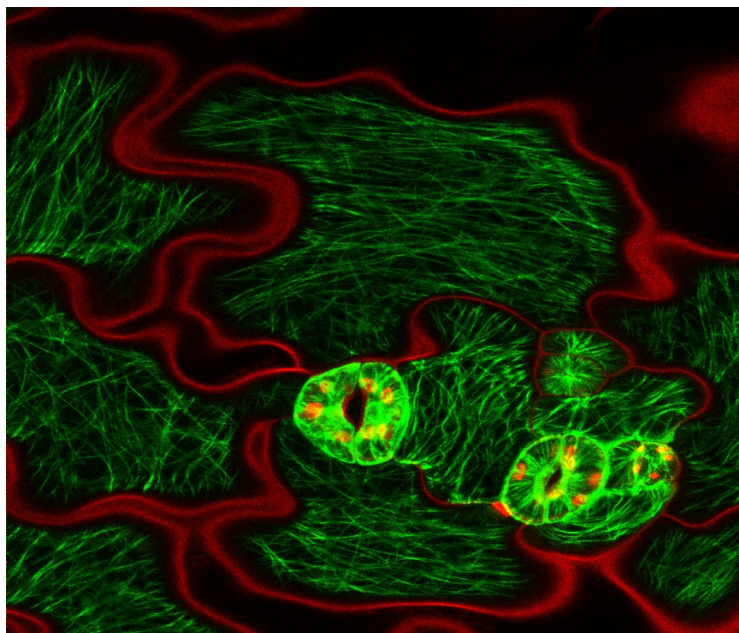
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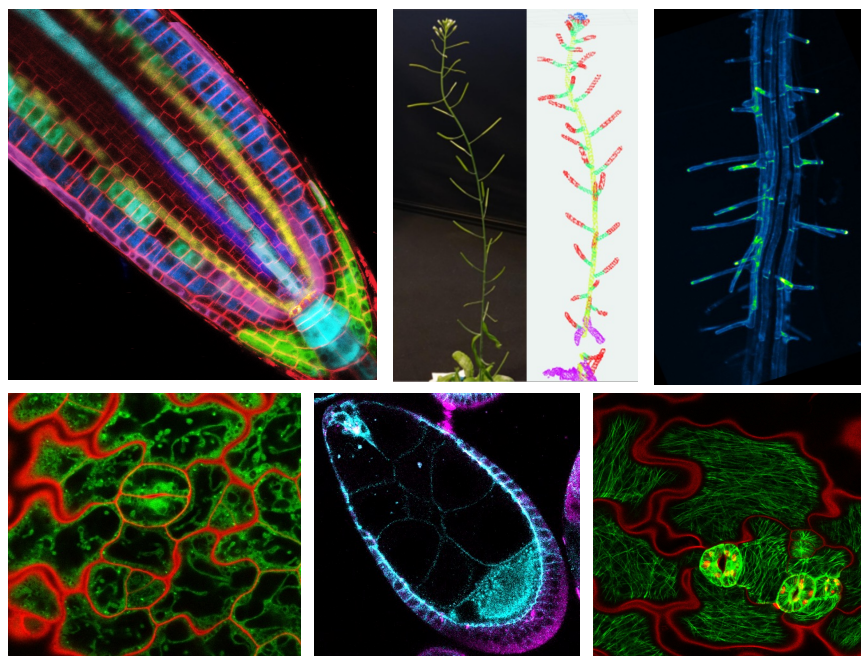
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