



Modelling plant development from the cellular to the organ scale

It is a pleasure to invite you in Montpellier, France (Agropolis campus) to attend a workshop covering the latest advances in plant modelling. The aim of this two-day meeting is to illustrate the benefits of a multidisciplinary approach associating plant biologists, physicists, mathematicians and computer scientists to tackle important issues in plant biology.

Thursday 27th March 2014

09:15 **by Elliot Meyerowitz.** Physical and chemical signals control morphogenesis at the shoot apical meristem.

10:30 **by Alexis Maizel.** Quantitative analysis of lateral root morphogenesis.

11:45 **by Athanasius Marea.** At the crossroads: how auxin biases positioning of asymmetric cell divisions in the root meristem.

14:15 **by Martine Ben Amar.** Biomechanics and morphogenesis: from theory to observations.

15:30 **by Siobhan Braybrook.** Quantifying the physics of growth: a case study in organ formation.

16:45 **by Florent Pantin.** Integrating cell division and growth in the Arabidopsis leaf.

Friday 28th March 2014

09:15 **by Cris Kuhlemeier.** Models of auxin-mediated patterning and morphogenesis.

10:30 **by Antoine Larrieu.** Towards a quantitative biology of hormone signaling.

11:45 **by Eric Kramer.** Auxin transport by the numbers: carriers, diffusion, and plasmodesmata.

14:15 **by Ullrich Koethe.** Learning in bioimage analysis using ilastik.

15:30 **by Tony Pridmore.** Recovering real plant geometries.

Abstracts will be available on <http://www.plantnum.agropolis.fr>. **To register, send an email to Mrs Laurence Fontana (laurence.fontana@inria.fr) before March 10th. Registration is free but compulsory due to space limitation.** Please indicate in your email if you want to have lunch on site (10 euros payable with credit card). For access to Agropolis, visit <http://www.agropolis.fr/>.

Organising Committee: Thierry Fourcaud (CIRAD), Christine Granier (INRA), Yann Guédon (CIRAD), Soazig Guyomarc'h (UM2), Laurent LAPLAZE (IRD). This Seminar is organised with the financial support from Agropolis Fondation (<http://www.agropolis-fondation.fr/>) and Agropolis International (<http://www.agropolis.fr/>)

