

Program

- 8:30 - 9:20 AM Arrival of the Participants & Poster Hang-up
- 9:20 - 9:30 AM Welcome Address
- Session I: Biophysical modeling of intracellular processes**
Chair: Laurent Héliot
- ▶ 9:30 - 10:10 AM Integrated models of cytoskeleton-driven morphogenetic processes
François Nedelec, EMBL Heidelberg, Germany
- ▶ 10:10 - 10:50 AM From active gel models of cell mechanics to cell trajectories
Raphaël Voituriez, Université Pierre et Marie Curie, Paris, France
- ▶ 10:50 - 11:10 AM Coffee Break
- Session II: Cell dynamics and tissue differentiation**
Chair: Frédérique Clément
- ▶ 11:10 - 11:50 AM Multistability in cell fate specification during development
Geneviève Dupont, Université Libre de Bruxelles, Belgium
- ▶ 11:50 - 12:30 AM Multiscale modeling of ovarian follicular development
Danielle Monniaux, INRA Tours, France
- ▶ 12:30 AM - 2:45 PM Buffet lunch and poster session
- Session III: Modeling plant morphogenesis**
Chair: Sylvie Schneider-Maunoury
- ▶ 2:45 - 3:25 PM Swarms and Traffic-jams in Development
Veronica Grieneisen, John Innes Centre, Norwich, UK
- ▶ 3:25 - 4:05 PM Unraveling the biophysical mechanisms behind plant morphogenesis
Arezki Boudaoud, ENS Lyon, France
- ▶ 4:05 - 4:25 PM Coffee Break
- Session IV: Modeling animal morphogenesis and morphological evolution**
Chair: Nadine Peyriéras
- ▶ 4:25 - 5:05 PM Building a body: Towards a multi-scale image-driven dynamical model of limb development
James Sharpe, CRG, Barcelona, Spain
- ▶ 5:05 - 5:45 PM Models of embryonic development and morphological evolution
Isaac Salazar-Ciudad, University of Helsinki, Finland
- ▶ 5:45 - 6:00 PM Concluding remarks
Frank Varenne, Gemass, Paris Sorbonne Université, France