



## Workshop « Modeling in Cell and Developmental Biology »

1<sup>st</sup> December 2015 - Paris, France

### Program

8:30 - 9:20 AM	Arrival of the Participants & Poster Hang-up
9:20 - 9:30 AM	Welcome Address
<b>Session I:</b>	<b>Biophysical modeling of intracellular processes</b> <i>Chair: Laurent Héliot</i>
► 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
<b>Session II:</b>	<b>Cell dynamics and tissue differentiation</b> <i>Chair: Frédérique Clément</i>
► 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
<b>Session III:</b>	<b>Modeling plant morphogenesis</b> <i>Chair: Sylvie Schneider-Maunoury</i>
► 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
<b>Session IV:</b>	<b>Modeling animal morphogenesis and morphological evolution</b> <i>Chair: Nadine Peyrières</i>
► 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 Franck Varenne, Gemass, Paris Sorbonne Université, France