



Journées plénieress du GDR CellTiss

3-5 novembre 2014

**Mont Sainte Odile,
Alsace, France.**

Monday November 3, 2014

11:30	<i>Check-In and Registration</i>
12:00-13:30	<i>Welcome lunch</i>
13:30-14:05	Felix Naef (EPFL Lausanne) <i>Synchronization and resonances of cellular oscillators</i>
14:05-14:40	Daniel Riveline (Cell Physics Lab., ISIS/IGBMC, Strasbourg) <i>Active gels in vivo</i>
14:40-15:15	Mauricio Baptista (Chemistry Institute, Sao Paolo) <i>Photosensitization reactions in health sciences</i>
15:15-15:50	Maxime Dahan (Institut Curie, Paris) <i>Target search of DNA-binding proteins in a mammalian nucleus: How to find a specific site in the genome?</i>
15:50-16:20	----- <i>Coffee break</i> -----
16:20-17:40 (4 talks, 20' each)	Arumugam S. (Institut Curie, Paris) : <i>Fluctuation-Driven Clustering of Nanoparticles on Lipid Membranes</i> Campillo C. (LAMBE, Evry) : <i>The role of cortical mechanics on the asymmetric division of mouse ovocyte</i> Planade J. (ESPCI, Paris) : <i>Insight on the mechanical role of protein partners in yeast actin networks</i> Gonzalez Rodriguez D. (LadHyX, Palaiseau) : <i>Microindenter Cellulaire pour Caractériser la Mécanique de la Rupture Membranaire</i>
17:40-17:50	Presentation of the team <i>Physique et nano-micro bio-ingénierie pour le vivant</i> , at CINM, Marseille.
17:50-19:30	"Poster minute" + Posters
19:30	----- <i>Dinner</i> -----



Tuesday November 4, 2014

8:45-09:45	Frédéric Pincet (LPS, Paris) <i>Intracellular trafficking: compartmentalization, specificity and exchanges between the various organelles</i>
09:45-10:30	Thomas Neu (Department River Ecology, Magdeburg) <i>The matrix of interfacial microbial communities</i>
10:30-11:05	François Nedelec (EMBL, Heidelberg) <i>The Steady-state Organization of a Meiotic Spindle</i>
11:05-11:30	----- <i>Coffee break</i> -----
11:30-12:50 (4 talks, 20' each)	Fourcade B. (ENS, Lyon) : <i>Theory of cell signalisation at adhesive sites : Integrin activation, integrin clustering and integrin organization into rosettes are the hallmarks of positive feedback loops generated by local phosphoinositide production</i> Bitbol A.F. (LSI IG, Princeton) : <i>Fundamental constraints on the abundances of chemotaxis proteins</i> Grammont M. (PhLAM, Lille) : <i>Epithelial morphogenesis in Drosophila: the genetics & the mechanics</i> Sorre B. (MSC, Paris) : <i>Model systems to study embryonic patterning</i>
12:50-14:00	----- <i>Lunch</i> -----
14:00-15:00	Michel Labouesse (IGBMC, Strasbourg) : <i>Embryonic life under tension</i>
15:00-16:20 (4 talks, 20' each)	Nahaboo W. (ENS, Lyon) : <i>Microtubule dynamics and mechanical forces in the one-cell C. elegans embryo</i> Doonaruma D. (LCVN, Montpellier) : <i>Micro- and macro-rheology of bronchial mucus</i> Riaz M. (Faculty of Science, Mons) : <i>Deciphering the mechanisms of durotaxis in crawling cells</i> Dillard P. (Aix-Marseille Univ., Marseille) : <i>Biophysical Studies of T-cell adhesion</i>
16:20-18:00	----- <i>Coffee break + Posters</i> -----
18:00-18:45	Luca Monticelli (IBCP, Lyon) <i>Molecular simulations of lipid membranes</i>
19:30	----- <i>Dinner</i> -----



Wednesday November 5, 2014

09:00-09:35	Karen Perronet (Institut d'Optique, Paris) <i>Kinetics of mammalian translation by single molecule fluorescence microscopy</i>
09:35-10:10	Erwin Peterman (University of Amsterdam) <i>A single-molecule view of intracellular transport in living <i>C. elegans</i></i>
10:10-10:40	----- <i>Coffee break</i> -----
10:40-11:20 (2 talks, 20' each)	Attwell S. (Institut Curie, Paris) : <i>Force et couple dans les pinces magnétiques: Paysage en énergie de la protéine hRad51 sur ADN double-brin</i> Wang Y.J. (LPS, Paris) : <i>Combining SFA and FRET to monitor the progressive zippering of two biomolecules during force measurements</i>
11:20-12:15	Round Table : the next GDR.
12:15-13:50	----- <i>Lunch</i> -----
13:50-14:25	Loïc Legoff (IBDM, Marseille) : <i>How mechanics shape growing tissues</i>
14:25-15:00	Anne Cécile Reymann (MPI, Dresden) <i>Actin filament alignment by flow</i>
15:00-15:40 (2 talks, 20' each)	Charvin G. (IGBMC, Strasbourg) : <i>Single cell analysis of entry into replicative senescence in budding yeast</i> Boselli F. (IGBMC, Strasbourg) : <i>Hemodynamic frequency content regulates valvulogenesis</i>
15:50	----- <i>End of the meeting</i> -----

