

*** All talks are 10 min + questions ***

9h Welcome coffee

9h20 — Introduction, Maxime Dahan, PCC

9h30-10h30 — “Cell populations”

- Nelly Henry, LJP – *Quantitative analysis of bacterial biofilm*
- Philippe Marcq, PCC – *Inference of internal stress in a cell monolayer*
- Anne-Florence Bitbol & Claude Loverdo, LJP – *Approches théoriques de dynamiques de populations*
- Sarah Moitrier, PCC – *Use of a light-inducible oncogene to study cell competition*

10h30-11h — “Networks and causality”

- Georges Debrégeas, LJP – *Probing sensorimotor computation in the vertebrate brain using light-sheet functional imaging*
- Hervé Isambert, PCC – *TBA*

Coffee break

11h30-12h — “In vitro reactions”

- André Estévez Torres, LJP – *Synthesis of spatio-temporal structures with biochemical reaction networks*
- Camille Simon, PCC – *Tension, contractility, tubules, and spikes generated by the actin cytoskeleton*

12h-12h30 — “Diagnosis”

- Christine Vever-Bizet & S. Kruglik, LJP – *Non linear fiber-based microspectroimaging*
- Davide Ferraro, PCC – *Droplet microfluidic and magnetic beads for diagnostic application*

Lunch – “Brasserie L’Ardoise”

14h-14h45 — “Sub-cellular structure and membranes”

- Quentin Vagne, PCC – *Stochastic models of intra-cellular organization*
- Stéphanie Bonneau, LJP – *Dynamics and stability of mitochondrial membranes*
- Stéphanie Mangenot, PCC – *Structural and mechanical aspect of septins*

14h45-15h30 — “Genome and nucleus”

- Lydia Robert or Marina Elez, LJP – *Replication error dynamics and spontaneous mutations fitness effects followed in real-time in single cells*
- Laura Caccianini, PCC – *Visualizing how individual transcription factors find their DNA targets*
- Nicolas Levernier, LJP – *First-passage times of non Markovian random walkers*

Coffee break

16h-17h — “Mechanics & mechanoperception across scales”

- Olivier Ameline, LJP – *Computation of ribbons for interactive molecular modelling*
- Pascal Martin, PCC – *Active motility by mechanosensory hair cells and minimal in-vitro acto-myosin systems*
- Alexis Prevost, LJP – *Tactile perception and mechanotransduction: biomimetic approaches*
- Emmanuel Farge, PCC – *Mechanical induction of the expression of oncogenes in colon cancer*

17h — Conclusion, Didier Chatenay, LJP

Journée LJP/PCC 9 décembre 2016

Jussieu campus:

Address : 4 place Jussieu 75252 Paris cedex 05

Access :

- Metro, lines 7 et 10 (Jussieu station)
- Bus 89 (Jussieu station)

Amphi Charpak,
situé patio 22-33
niveau Saint Bernard
(SB/RC)

descendre par la tour 22. Prendre à gauche jusqu'à la sortie de la rotonde. Accès par la porte 2233-SB-02 de l'autre côté de la voirie interne

Brasserie l'Ardoise,
située entre la
Tour 25 et 26
Parvis Jussieu

