

Paris Biological Physics Community Day 2013

Centre Culturel Irlandais, 5 rue des Irlandais, 75005, Paris

GDR1
Evolution
Regulation
Signaling



9h30-10h35 1st session

Superfluid transfer of information in starling flocks

Asja Jelic, *ISC-Sapienza, Rome*

Causal network inference from local information-theoretic measures

Severine Affeldt, *Curie Institute, Paris*

10h35-11h00 [Coffee Break](#)

11h00-12h25 2nd session

Stepping and crowding of molecular motors: from theory to mRNA translation

Luca Ciandrini, *Universite Montpellier II*

Tension-oriented cell divisions limit anisotropic tissue tension in epithelial spreading during zebrafish epiboly

Jonas Ranft, *Ecole Normale Supérieure, Paris*

Network function shapes network structure: the case of the Arabidopsis flower organ specification genetic network

Adrien Henry, *UMR du Moulon INRA, Gif-sur-Yvette*

12h25-14h00 [Lunch Break \(ENS, 24 rue Lhomond, salle Conf IV\)](#)

14h00-15h05 3rd session

Heredity in evolution and evolution of heredity

Olivier Rivoire, *Universite Grenoble I*

Phenotypic diversity during adaptation measured with digital microfluidic

Denis Cottinet, *École Supérieure de Physique et de Chimie Industrielles, Paris*

15h05-15h30 [Coffee Break](#)

15h30-16h35 4th session

Statistical mechanics of unknown unknowns

Yasser Roudi, *NTNU Trondheim*

Inferred model of the prefrontal cortex activity unveils task-related coupling potentiations and cell assemblies

Gaia Tavoni, *Ecole Normale Supérieure, Paris*

16h35-16h45 [Break](#)

16h45-17h50 5th session

Thermodynamic limits on noisy cellular sensing

Sorin Tanase-Nicola, *BMC Uppsala*

Nuclear compartmentalization into distinct genomic domains

Algebra of (symmetric) positive matrices

Julien Riposo, *Université Pierre et Marie Curie, Paris*

18h25 [Cocktail \(ENS, 45 rue d'Ulm, salle Normal'Café\)](#)
