Ideas that Keep us Awake

Salle Urbain, ESPCI Paris Tech, 25 May 2016

9:00-9:10	Jean-François Joanny Welcome
9:10-9:30	Regis Ferrière (IBENS) Does ecology matter to evolution (and vice-versa)?
9:30-9:50	Ivan Matic (INSERM) Estimating mutation rates: How to separate mutations from their effect on fitness?
9:50-10:10	Amaury Lambert (UPMC) Trees within trees and the species problem
10:10-10:40	Break (salle Champetier)
10:40-11:00	Virginie Orgogozo (Monod) Abstract representations in biological organisms
11:00-11:20	Jean Baudry (ESPCI) Unculturable microorganisms
11:20-11:40	David Bensimon (LPS, ENS) What are the constraints on evolution?
11:40-12:00	Silvia De Monte (IBENS) Coupling phenotypic heterogeneity to demography
12:00-12:20	Boris Shraiman (UCSB) Survival versus growth and natural selection in the long term
12:20-12:40	Jérôme Bibette (ESPCI) Semi-permeable capsules for high throughput microbial culture
12:40-14:00	Lunch (salle Champetier)
14:00-14:20	Jacques Ninio (LPS, ENS) The blind spots of population genetics
14:20-14:40	Philippe Huneman (IHPST) Selection, neutrality, individuality: issues about coarse-graining and scale decoupling
14:40-15:00	Jean-Baptiste Boulé (MNHN) Some thoughts about time and clocks in biology
15:00-15:20	Laurent Boitard (MilliDrop) Living in a droplet
15:20-15:40	Henrique Teotonio (IBENS) Adaptation to temporally fluctuating environments by the evolution of maternal effects

15:40-16:00	Break (salle Champetier)
16:00-16:20	François Taddei (CRI) Are we undergoing another major evolutionary transition?
16:20-16:40	Jean-Marc Ghigo (Pasteur) Biofilm-specific functions: Grail or/and hoax?
16:40-17:00	Nicolas Desprat (LPS, ENS) Nucleation out of the nucleus
17:00-17:20	Georges Chapouthier (CNRS) The complexity in mosaics
17:20-17:40	Olivier Tenaillon (INSERM) Quantifying organismal complexity
17:40-18:00	Paul Rainey (ESPCI) When nothing makes sense there is something to discover: do REPINs and RAYTs conspire to edit DNA and protect against phage?
18:00-19:30	Aperitifs, posters and yacker (salle Champetier)
19:30	Dinner (for invited speakers)