



# CHAIRE PROCESSUS MORPHOGÉNÉTIQUES

Année académique 2014-2015

Alain PROCHIANTZ, professeur

## BRAIN PLASTICITY AND REPAIR

Colloque en anglais • Colloquium in English

Mardi 14 et mercredi 15 avril 2015, amphithéâtre Guillaume Budé

### Tuesday April 14th

- 09h30** Welcome
- 10h00** How can we increase the intrinsic regenerative ability of CNS axons?  
James FAWCETT, *John van Geest Centre for Brain Repair, Cambridge, UK*
- 10h40** Molecular mechanisms of neural circuit development Jeroen PASTERKAMP, *Department of Translational neurosciences UMC, Utrecht, NL*
- 11h20** Break
- 11h40** Prodromal Parkinson's Disease: the value of genetic animal models  
Wolfgang WURST, *German Research center for environment and health, Munich, DE*
- 12h20** Regulation of Neural Plasticity and Regeneration by Complex Extracellular Matrix Micromilieus  
Andreas FAISSNER, *Faculty of Biology and Biotechnology, Ruhr-University, Bochum, DE*
- 13h00** Lunch
- 14h20** The repulsive axon guidance cue Semaphorin3A in perineuronal nets and the neural scar  
Joost VERHAAGEN, *Netherland Institute for neurosciences, Amsterdam, NL*
- 15h00** Metabolism, epigenetics and plasticity  
Raj RATAN, *Burke University, White Plains, NY USA*
- 15h40** Fine-tuning the inhibitory chondroitin sulfate proteoglycans in promoting regeneration  
Jessica KWOK, *John van Geest Centre for Brain Repair, Cambridge, UK*
- 16h20** Break
- 16h40** Nigral innervation of the olfactory bulb: Physiological role and its impact in early degeneration of the substantia nigra in Parkinson disease  
Daniel ALVAREZ-FISHER, *Institute of Neurogenetics, University of Lübeck, DE*
- 17h20** SINEUPs: a new functional class of antisense long non-coding RNAs that activate translation  
Stefano GUSTINCICH, *International School for Advanced Studies SISSA, Trieste, IT*
- 18h00** Otx2 regulation of cerebral cortex plasticity, during postnatal development and in the adult  
Clémence BERNARD, *Collège de France*

### Wednesday April 15th

- 09h00** Pre-symptomatic compensation in neurodegeneration  
Alexandra DURR, *Brain and Spine Institute (ICM), Paris, FR*
- 09h40** Transcriptional control and Parkinson's disease  
Thomas PERLMANN, *Ludwig Institute for Cancer Research, Karolinska Institute, Stockholm, SU*
- 10h20** Break
- 10h40** Use of embryonic stem cells for brain repair  
Anders BJORKLUND, *Wallenberg Neuroscience Center, Lund University, Lund, SU*
- 11h20** Dopamine modulation of neuronal circuitries and CNS pathologies  
Emiliana BORRELLI, *University of California, Irvine, USA*
- 12h00** The brainstem pedunculo pontine nucleus as a deep-brain stimulation target  
Brian LAU, *Brain and Spine Institute (ICM), Paris, FR*
- 12h40** Lunch
- 14h00** Huntington's disease: huntingtin, intracellular trafficking and the control of neuronal survival  
Frédéric SAUDOU, *Grenoble Institute of Neuroscience, FR*
- 14h40** Vulnerability of the striatum in Huntington's disease: a focus on newly identified striatal genes  
Emmanuel BROUILLET, *Life Science Division, CEA, Fontenay-aux-Roses, FR*
- 15h20** The physiopathology of homeoprotein transduction  
Alain PROCHIANTZ, *Collège de France*
- 16h40** Nobody knows  
Vitek TRACZ, *F1000, Life Science Communication, LONDON, UK*