



## INC Day 2014 : Neurodevelopmental Disorders

Thursday, December 4<sup>th</sup> 2014

**Salle du Conseil, Université Paris Descartes  
12, rue de l'École de Médecine, Paris 6ème**

**Organizers :** T. Jay and M-O. Krebs (Centre de Psychiatrie et Neurosciences, CPN, INSERM-Paris Descartes-Hôpital Sainte-Anne), J. Gervain (Laboratoire Psychologie de la Perception, LPP, CNRS-Paris Descartes), P. Gressens (Neuroprotection des atteintes au cerveau en développement, NACD, INSERM-Paris Diderot), C. Meunier (Centre de Neurophysique, Physiologie et Pathologie, CNPP, CNRS -Paris Descartes).

### Program

**9:00-9:30 Breakfast and Welcome Address**

- **Claude Meunier** (Director of INC), **Jacques Epelbaum** (Director of CPN) and **Pierre Gressens** (Director of NACD)

**9:30-10:30**

- **Keynote Lecture by Yehezkel Ben Ari** (Institut de Neurobiologie de la Méditerranée) : *Birth and Neuro-Archeology of Autism*  
Introduced by **Judit Gervain** (LPP)

### **10:30-12:30 Session Inflammation and Brain Maturation**

Chair : **Etienne Audinat**, Neurophysiologie et Nouvelles Microscopies, INSERM – Paris Descartes

- **Urs Meyer** (ETH, Zürich) : *Priming of Neurodevelopmental Disorders by In-Utero Immune Challenge*
- **Pierre Gressens** (Paris Diderot) : *Impact of Perinatal Neuroinflammation on Brain Development and Function*
- **Short communications**
  - **Juliette Van Steenwinckel** (NACD) *Role of microglial Wnt pathway in perinatal inflammation-induced white matter injury*
  - **Betty Freret-Hodara** (Institut Jacques Monod, UMR7592, CNRS-Université Paris Diderot) *Cortical progenitors adapt their mode of division to rescue neuronal loss even upon major embryonic injuries.*
  - **Vincent Degos** (NACD and Département d'Anesthésie Réanimation, Groupe Hospitalier Pitié-Salpêtrière, Université Pierre et Marie Curie), *Role of peri-operative inflammation in acquired cognitive dysfunction and in acute brain injuries sensitization.*
  - **Paola Squarzoni** (Brain Development and Plasticity, IBENS, Ecole Normale Supérieure-Inserm-CNRS) *Microglia modulate the wiring of the embryonic forebrain*

### **12:30-14:00 Lunch in Galerie Saint-Germain**

### **14:00-16:00 Session Neurodevelopment and Autism**

Chair : **Richard Delorme**, Génétique humaine et Fonctions cognitives, CNRS – Paris Diderot

- **Anna Remington** (UCL, London) : *The Autism Gift? Increased Perceptual Capacity in Autism Spectrum Disorder*
- **Sylvie Tordjmann** (Paris Descartes) : *Melatonin and Autism*
- **Short communications**
  - **Carline Bernard** (LPP), *Auditory and Speech Perception in Individuals With Autism: the Role of Prosody-*
  - **Sylvie Chokron** (LPP) *Neurocognitive approach of Autism*

- **François Darchen** (Laboratoire de Neurophotonique CNRS- Paris Descartes) *mTOR as a potential biomarker of autism spectrum disorders.*
- **Carole Levenes** (CNPP), *The role of the Cerebellum in Autism : Reappraisal of a causal relationship.*

**16:00-16:30 Coffee break**

**16:30-18:30 Session Schizophrenia and Drug Abuse**

Chair : **Carole Levenes**, CNPP, CNRS – Paris Descartes

- **Peter Uhlhaas** (University of Glasgow) : *Schizophrenia, Brain Development and Neural Oscillations : Perspectives from Magnetoencephalography*
  - **Marie-Odile Krebs** (Paris Descartes) : *Schizophrenia, a Cognitive Developmental Disorder ?*
  - **Short communications**
- **Rebecca Piskorowski** (Laboratoire de Physiologie Cérébrale, CNRS-Paris Descartes), *Age-dependant changes in hippocampal area CA2 in a mouse model of schizophrenia.*
  - **Boris Chaumette** (CPN), *Methylomic analysis of conversion to psychosis.*
  - **Maxime Teremetz** (CPN) *Behavioral and modeling evidence for altered motor inhibition and motor noise in schizophrenia.*

**18:30-19:00 Conclusion and Refreshments**