

Symposia Series: «Open questions in Neuroscience»
Center for Neurophysics, Physiology & Pathology
Institute of Neuroscience and Cognition
Paris Descartes University, 45 Rue des Saints Pères, Paris
Sponsored by Paris Neuroscience School

Symposium #3: New Insights in the Mechanism of Absence Epilepsy
May, 13, 2014

Conference room of the Center for Neurophysics, Physiology & Pathology (3rd floor)

Organizers: Arthur Leblois, David Hansel

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- 10:30 *Coffee and croissants*
- 11:00 - 12:30 **Absence epilepsy: from clinical aspects to electrophysiological correlates**
- 11:00 - 11:45 Stéphane Auvin (Robert Debré Children Hospital, INSERM, Paris)
Electroclinical characteristics and prognosis of epileptic syndromes with absence seizures
- 11:45 - 12:30 Stéphane Charpier (ICM, Université Pierre et Marie Curie, Paris)
Initiation, propagation and generalisation of spike-and-wave discharges in cortico-thalamic circuits
- 12:30 - 13:30 *Lunch*
- 13:30 - 15:00 **Ontogeny of absence seizures and their cortical focus**
- 13:30 - 14:15 Isabelle Guillemain (GIN, Université Joseph Fourier, Grenoble)
The beginning of the seizure generator in GAERS: a cortical history
- 14:15-15:00 Tristan Altwegg-Boussac (ICM, Université Pierre et Marie Curie, Paris)
Post-natal development of ictogenic properties of neurons triggering seizures in GAERS rats
- 15:00-15:30 *Coffee break*
- 15:30 - 17:00 **The role of basal ganglia in absence epilepsy: experimental evidence and computational models**
- 15:30 - 16:15 Fanny Cavarec (GIN, Université Joseph Fourier, Grenoble)
Control of absence epilepsy by basal ganglia: focus on the dopaminergic system
- 16:15 - 17:00 Takafumi Arakaki (CNPP, Paris Descartes University)
Abnormally strong striatal feedforward inhibition is responsible for absence epilepsy
- 17:00 - 17:30 Discussion:
Mechanisms of absence epilepsy- Cortico-thalamic vs. cortico-basal theories