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

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
Sponsored by Paris Neuroscience School
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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 Altweeg-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