

LES CONFÉRENCES DE L'ICM



Christophe BERNARD
UMR Inserm U751
Faculté de Médecine de la Timone
Marseille
christophe.bernard@univmed.fr

Hosted by Stéphane CHARPIER

If you would like to meet the speaker, please use
the following contact: *stephane.charpier@upmc.fr*

Conférence de Christophe BERNARD *16 Mai 2011 à 11H30*

"Epilepsy as a plastic neuronal machine"

Epilepsy often results from an initial insult of the brain. This insult triggers a chain of events that will ultimately lead to epilepsy, after a seizure-free period that can last decades in human. Experimental models of temporal lobe epilepsy can reproduce this scheme, enabling the study of the underlying mechanisms. Using the pilocarpine and kainic acid models, we show that the initial status epilepticus results in a rapid and complex reorganization of the hippocampal circuitry, leading to the occurrence of pathological activities and cognitive deficits, well before the appearance of epilepsy. We have identified an epigenetic mechanism, which acts as a major switch responsible for the construction of an epileptic brain. Our results suggest the existence of predictive markers of epilepsy and ways to act upon them.

Lundi 16 mai 2011 à 11H30
Auditorium de l'ICM
Hôpital Pitié-Salpêtrière
47, boulevard de l'hôpital - 75013 Paris