

Postdoctoral position
***In vivo* electrophysiology**
Mechanisms of epileptogenesis

A 3-year postdoctoral position funded by a collaborative Eranet-Neuron grant is available from September 2017 in the group of Jean Christophe Poncer, at *Institut du Fer à Moulin* (IFM), in Paris, France. IFM is a Neuroscience research institute affiliated with INSERM and Université Pierre & Marie Curie. The institute currently hosts 7 internationally renowned groups in the field of brain development, plasticity and pathology and offers a stimulating and collaborative environment with state of the art core facilities. It is located in the Latin Quarter, within walking distance of renowned institutions such as *Pitié-Salpêtrière Hospital*, *Collège de France* and *Ecole Normale Supérieure*.

The Poncer Lab studies the cellular and synaptic deficits underlying epileptogenesis. We combine *in vitro* (patch clamp and MEA) and *in vivo* (silicon probes and ECoG) electrophysiological recordings with viral-based neuronal transduction approaches to explore the mechanisms engaged upon an initial insult leading to the emergence of an epileptic network. Specifically, we currently focus on alterations of neuronal chloride transport in the context of temporal lobe epilepsy as well as related neurodevelopmental disorders.

A highly motivated, independent and organized individual is sought to conduct a research project involving primarily *in vivo* electrophysiological recordings in behaving rodents, in collaboration with our Eranet partners (L. de la Prida, Madrid; C. Hübner, Jena; F. Guillemot, London and C. Rivera, Marseilles). The successful candidate will be hard-working, able to perform surgical procedures under initial guidance and experienced in either *in vivo* electrophysiology or data analysis using Matlab. Applicants may have a background in neuroscience or in engineering (signal analysis) with a genuine interest in experimental biology.

Applications should be sent to jean-christophe.poncer@inserm.fr and include a resume, short statement of research interests (1 page) and at least 2 letters of reference. Selected candidates will be invited for an interview at IFM.

Additional information on the Poncer lab: <http://poncerlab.fr>