

Titre de l'annonce	<h2 style="text-align: center;">Postdoctoral researcher in Neurodevelopment and Epilepsy</h2>
Ville	Paris
Pays	France
Texte de l'offre	<p>A fully-funded, 36-month postdoc position is open from April 2022 in the Poncer lab at the Institut du Fer à Moulin, Paris, to study the anomalous persistence of transient cortical neurons in epilepsy. This collaborative project funded by ERANET Neuron gathers a consortium of 5 leading European groups in the fields of neurodevelopment and epilepsy (Pierani and Poncer in Paris, de la Prida in Madrid, Luhmann in Mainz, and Aronica in Amsterdam).</p> <p>Programmed cell death of transient neurons, in particular Cajal-Retzius neurons (CRs), is emerging as a key player in cortical development. Anomalous postnatal persistence of CRs is detected in various forms of epilepsy and schizophrenia. Our project aims to explore how persistent CRs contribute to anomalous activities underlying these neurodevelopmental disorders. Combining mouse genetics, viral-based tracing methods, and in vitro electrophysiology, we will first test whether and how persistent CRs of diverse origins are synaptically integrated into cortical networks. Next, we will explore how the persistence of distinct CRs perturbs the synaptic and intrinsic properties of cortical neurons. Finally, we will unravel the molecular mechanisms underlying programmed cell death of various CR subtypes and their alteration in the pathology, with specific emphasis on neuronal chloride transport.</p> <p>The successful candidate will join a dynamic, multidisciplinary research team focused on the molecular and cellular determinants of epileptic networks, with expertise ranging from single-molecule tracking approaches to in vitro and in vivo electrophysiology. He/she will also participate in consortium activities, including annual scientific meetings, progress reports, and interaction with patient organizations for outreach activities.</p> <p>Candidates should hold a Ph.D. in Neuroscience and have solid experience with in vitro slice electrophysiology. Prior experience with stereotaxic injections and mouse models is preferred. Excellent teamwork and English communication skills are required.</p> <p>For application, please send a CV, a brief description of research experience and interests, and the names and email addresses of two references to jean-christophe.poncer@inserm.fr</p> <p>The Institut du Fer à Moulin is a research center affiliated with Inserm and Sorbonne University, located in the heart of the Latin Quarter in Paris. It hosts 8 research teams focusing on neurodevelopment and disorders of the nervous system and 3 state-of-the-art experimental platforms for photonic microscopy, cell engineering, and behavioral exploration. (www.ifm-institute.fr)</p>
Date de fin de publication :	31/03/2022

Type d'emploi	Post-Doctorat - Post-Doctoral position
Type de contrat	36 months
Rémunération brut mensuelles	Depending on prior experience
Date limite de candidature	31/03/2022
Date début de fonction	01/04/2022
Information contact	Jean Christophe Poncer Institut du Fer à Moulin (UMR-S 1270) 8 rue des Fossés Saint Marcel 75005 Paris, France jean-christophe.poncer@inserm.fr