

Université Claude Bernard Lyon 1- Hosting offer for a MSCA Post-doctoral fellowship candidate in Neurophysiology and Epilepsy

Host Organisation	Université Claude Bernard Lyon 1
Department	
Laboratory	Neuroscience Research Centre Lyon
Website (lab / research team)	https://www.ibexlaboratory.com/
Supervisor Contact name	Sylvain Rheims and Vincent Magloire
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Host Organisation

The Université Claude Bernard Lyon 1 welcomes Marie Sklodowska Curie Postdoctoral Fellowships applications!

With 62 laboratories and more than 7000 publications per year, and leading French university in terms of the number of patents filed in collaboration with industry, Lyon 1 contributes to scientific and innovation progress in numerous fields: health, mathematics, IT, physics, chemistry, earth and space sciences, life sciences, etc. Creator of emerging knowledge and new technologies, the University is consolidating its research excellence on a global and international level by developing inter- and multidisciplinary approaches targeting the major challenges facing today society.

Host research lab/team

Our research group is one the teams of the Lyon's Neuroscience Research Centre and located at the Epilepsy Institute, Lyon, France. We are embedded in a very dynamic and collaborative environment with more 450 members with a breath of expertise in imaging, electrophysiology, molecular biology and behaviour spanning from the subcellular level to cognition and the clinic. We have regular journal clubs and lab meetings as well as seminars on a broad range of neuroscience topics.

More generally, Lyon is vibrant and dynamic international city with 3 universities located only few hours away from major cities like Paris (2h), Geneva (~1.5h) and Marseille (~1h) as well as the Alps and Mediterranean sea.

The TIGER (Translational and Integrative Group on Epilepsy Research) team is a dynamic part of the CRNL, bringing together 5 principal investigators with international leadership in epilepsy research, alongside researchers (including 5 PhDs and 4

postdocs), clinicians, engineers, and technicians. Our mission is to unravel the fundamental mechanisms of seizure generation, cortical microcircuit function, and the impact of sleep and stress on epileptic conditions.

To achieve this, we leverage a diverse methodological toolkit, ranging from patch-clamp electrophysiology in ex vivo slices and multisite fiber photometry in freely moving animals to advanced neuroimaging and intracranial electrophysiological recordings in patients with refractory epilepsy. This multidisciplinary approach allows us to bridge the gap between basic science and clinical innovation.

Website: [Magloire's Group](#), [TIGER Team](#), [Lyon Neuroscience Research Centre](#)

Hosting Offer

The **TIGER team** offers to host a MSCA Postdoctoral Fellowship candidate (typically a post-doc of less than 8 years research experience since PhD defence), submitting an application to the next MSCA-2026-PF call for proposals (deadline 09th of September 2026), interested to work on the following research topic:

1. Role of neurochemical environment (e.g., neuropeptides) in seizure prediction
2. Mechano-transduction in cortical microcircuit operation and epilepsy
3. Focused ultrasound methods for seizure prevention
4. Human cortical microcircuit studies in epilepsy

Topics can be combined or tailored to your expertise.

The fellowship could last for 12 to 36 months, depending on the type of Postdoctoral Fellowship.

Supervision

The successful Marie-Curie Post-doctoral fellow will be supervised by Dr Vincent Magloire and Prof. Sylvain Rheims

Prof. Sylvain Rheims is Professor of Neurology at Lyon 1 University and Head of the Adult Epilepsy Department at Lyon University Hospital which runs one of the largest epilepsy surgery programs, including intracerebral EEG recordings, in France and in Europe. His work spans both clinical practice and international translational research, with a focus on respiratory dysfunction, sleep, adenosine, and SUDEP, studied across animal models and patients with refractory epilepsy. He received in 2018 the ILAE-CEA European Young Investigator Award and an ERC consolidator grant in 2023 (EPIAROUSAL project).

Dr. Vincent Magloire, a CRCN INSERM/Wellcome Research Fellow, investigates how brain excitability is regulated and how its dysfunction contributes to paroxysmal disorders such as epilepsy. His research aims to develop innovative treatment strategies by integrating multisite photometry, miniscope imaging, two-photon microscopy, and electrophysiology in both ex vivo and in vivo mouse models of epilepsy. He is the recipient of a Career Development Award from Wellcome.

Application process

Interested candidates are invited to contact us exclusively by email at vincent.magloire@inserm.fr

Make sure that you include the reference to this offer in the title of your email. Please attach a CV, a motivation letter, your MSc marks, **as well as a 1 page research proposal**.

Professional grant application support:

Candidates will receive the support of the supervisors, as well as online training from a professional grant application company, and advices from successful applicants, to prepare and submit their application with the Centre de Recherche en Neurosciences de Lyon (CRNL as a host laboratory, to the next MSCA-PF call for proposals.