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«Fluids and barriers of the CNS » team.

Research Teams

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TRAJECTOIRES

Laure Pisella
& Yves Rossetti

WAKING

Jian-Sheng Lin

A new position is available for a PhD thesis in the “Fluids and Barriers of the CNS- FLUID” team at the Lyon Neuroscience Research Center.

Neonatal aggression by environmental toxicants and drugs, as well as infection often associated with intrauterine growth restriction (IUGR), result in an increased risk of neurologic disorders. The project, founded by a multicentric grant from the FRM Foundation, interrogates the links between adverse perinatal conditions and long-lasting alterations of blood-brain barriers neuroprotective functions against harmful environmental agents.

As a PhD student you will be in charge of investigating the development of brain interfaces protective functions in adverse conditions by analyzing neuroprotective gene expression, blood-brain permeability to selected toxicants, and searching for persistent signs of BBI sensitivity to infectious cues in a rodent model of IUGR. You will also explore therapeutic strategies to restore BBI functions. You will interact with two other laboratories of the consortium that will search for changes in the transcriptomic signature of the neurovascular unit at the single cell level, and assess mitochondrial dysfunction to establish a link between energy supply and BBIs alteration. Within the team, you will help supervising undergraduate trainees and MsD students. Within 3 years you will obtain a PhD degree from the prestigious Neuroscience and Cognition NSCo Doctoral school of the Lyon University.

To qualify, you need an MsC diploma in life sciences, experimental skills in protein biochemistry and molecular biology, and communication skills in English. A neuroscience background, experience in animal handling, in vivo transport measurements, or analytical chemistry (HPLC), would be welcomed. We also expect a strong sense of team spirit. Optimal starting date is January 1, 2022.

Applications are to be sent to Jean-François Gheresi-Egea (jean-francois.ghersi-egea@inserm.fr), and need to include a motivation letter, a curriculum vitae, and the phone/e-mail contact of 2 scientists that acted as your supervisors in your previous laboratory trainings.



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