



**Centre Hospitalier Universitaire Vaudois  
et  
Université de Lausanne**



Lausanne, May 1<sup>st</sup>, 2024.

## **PhD thesis in neuroscience**

A PhD student position, financed by the Swiss National Science Foundation, is available from September 1<sup>st</sup> 2024 on, in the research group of Prof Olivier Braissant, at the Service of Clinical Chemistry of the CHUV, in Lausanne. The project aims at developing new models and technologies to measure, at the single cell level, the metabolic variations of the different specific brain cell types under different genetic and acquired brain pathologies.

Techniques involved: 3D primary brain cell organoid cultures, in vivo rodent models of metabolic diseases, viral transductions (AAVs), 2-photon and confocal microscopy, cell clamping and microaspiration, LC-MS/MS, histology (immunofluorescence), MRI/MRS, etc...

A strong background in development and physiology of the nervous system would be appreciated.

This PhD thesis position is integrated within an interdisciplinary project led by a consortium of 4 different groups (Dr Cristina Cudalbu CIBM/EPFL, Prof Stéphane Sizonenko Pediatrics/HUG, Prof Ileana Jelescu Radiology/CHUV, and Prof Olivier Braissant Clinical Chemistry/CHUV), recruiting altogether 3 new PhD students (including this position) and 5 new postdocs.

Salary according to the scale of the Swiss National Science Foundation. Applicants should send their CV and references to: Prof Olivier Braissant, BH 18-713, Service of Clinical Chemistry, CHUV, Avenue du Bugnon 46, 1011 – Lausanne, e-mail: [Olivier.Braissant@chuv.ch](mailto:Olivier.Braissant@chuv.ch), tel: +41 79 556 72 07.