



## Psychiatry and Neuroscience Seminar Series 2021



**Dr Christophe LETERRIER**

(Host L Danglot/T Galli)

*NeuroCyto, INP CNRS UMR 7051 - Aix Marseille Université,  
France*

## The axonal cytoskeleton at the nanoscale

**Friday May 7<sup>th</sup>, 2021, noon**

VISIOCONFERENCE R04-45, 102-108 rue de la santé - 75014 Paris

**Dr Christophe LETERRIER**

**NeuroCyto, Institut de NeuroPhysiopathologie CNRS UMR 7051 - Aix Marseille Université, France**

At NeuroCyto, we want to understand how neurons are organized at the cellular level. How do they differentiate, then build and maintain their complex arborization? How do they establish and conserve their polarity, with the axon and dendrites allowing to send and receive signals? Numerous processes contribute to this organization: elaboration of the cell architecture (thanks to the cytoskeleton), protein transport inside the cell (with diffusion and motor proteins), segregation into distinct compartments (such as axon, synapses, dendritic spines...). The NeuroCyto team applies advanced microscopy techniques to directly observe molecular assemblies at the nanoscale in neurons, revealing how they organize the neuron and shape its physiology.

## **Epifluorescence, live-cell imaging, and super-resolution microscopy STORM or DNA-PAINT**

ZOOM Meeting ID: 878 7340 0200 / Passcode: 224466

<https://u-paris.zoom.us/j/87873400200?pwd=YlQzOUpibzVpNElrdXp0K3FKZ01BZz09>

Stay tune