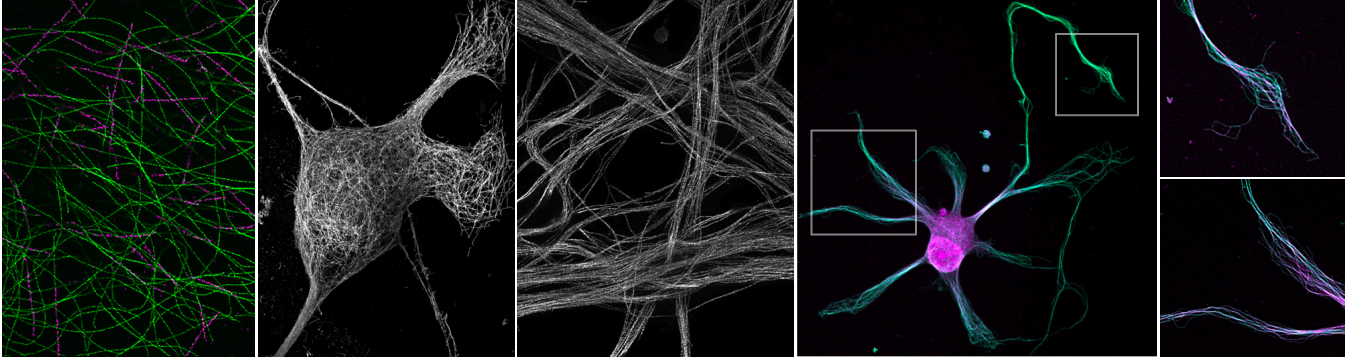


ANR-funded post-doctoral position NeuroCyto lab (Christophe Leterrier) at INP, Marseille

The [NeuroCyto lab](#) is looking to hire a postdoctoral fellow for an exciting project on novel mechanisms of microtubule turnover in neurons, in collaboration with collaboration with the lab of Manuel Théry and Laurent Blanchoin ([CytoMorpho lab](#), ESPCI, Paris). The position is available from January 1st, 2024, and is funded for up to 3 years by ANR, with applications for fellowships being strongly encouraged during the first year.



About the position and project

The Théry lab has discovered a new mechanism of microtubule turnover via in-lattice repair ([Schaedel et al., 2015](#); [Aumeier et al., 2016](#); [Théry & Blanchoin, 2021](#)) that we could recently visualize using super-resolution microscopy ([Gazzola et al., 2022](#)). We are now developing methods to visualize in-lattice repair within the dense arrays of neuronal microtubules, and are mapping microtubule turnover in neurons with unprecedented spatial and temporal resolution. The project will explore how in-lattice turnover impacts the establishment, maintenance and transformation of the unique cytoskeletal architecture in neurons, using a combination of single-cell manipulation and advanced microscopy approaches in neuronal cultures. You will drive this project with supervision and mentoring from established researchers in the NeuroCyto lab: devise experiments, acquire and analyze data, work with team members, and prepare publications.

About the team and environment

The NeuroCyto lab is a thriving team of about 12 people, part of the [Institute of Neurophysiopathology \(INP\)](#) located on the Timone campus of Aix-Marseille University, in the center of Marseille. The overarching aim of the team is to understand how the neuronal cytoskeleton can build, maintain, and transform the neuronal organization and function. We have a recognized expertise in applying cutting-edge microscopy (live-cell, super-resolution) to neuronal cell biology, helped by a strong network of long-time collaborators. In the team, we aim to make ambitious and rigorous science by fostering a positive environment based on respect, team spirit, good communication and mentoring.

About the profile

We are looking for candidates with a recent PhD in neurobiology or cell biology and a track record of publications and lab experience in one or more areas that include: cytoskeleton, neuronal polarity, advanced microscopy (live-cell imaging, expansion microscopy). Highly motivated candidates with an interest in areas of research at the intersection of neuronal cell biology, advanced microscopy and quantitative biology are strongly encouraged to apply. Taste for interdisciplinary work, team spirit, ability to interact and collaborate with team members and collaborators, a general sense of camaraderie and motivation to learn are a must.

About the application

Interested in this opportunity? Please apply before November 30th, 2024, by sending a CV, name of 2 or more references, as well as a motivation letter stating why we should work together on this project to christophe.leterrier@univ-amu.fr. Interviews will be conducted during the application period so don't hesitate to apply early, and contact Christophe more informally if you have any questions about the position.