

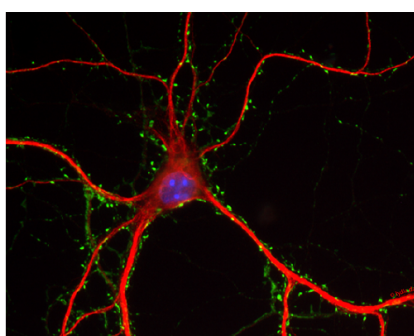
Inserm Workshop 249

Multidimensional imaging and quantitative Analysis of cell dynamic's: focus on traffic and cell migration

REGISTRATION DEADLINE: September 14, 2018

ORGANIZERS: Lydia DANGLOT (Institut de Psychiatrie et Neurosciences de Paris), Alexandre DUFOUR (Institut Pasteur, Paris), Franck DEBARBIEUX (Institut de Neurosciences de la Timone, Marseille)

AIMS: To expose all methods available to image and analyze quantitatively cellular dynamics (organelles and traffic, cell migration and deformation). It will cover both imaging and data analysis of cultured cells but also tissular level with 2 photons in vivo imaging.



PHASE I – CRITICAL ASSESSMENT

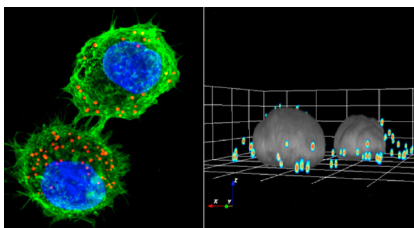
November 26-28, 2018 in Bordeaux

DYNAMICS OF THE CYTOSKELETON AND CELLULAR MORPHOGENESIS

Isabelle TARDIEUX (Institute for Advanced Bioscience, FRA), Robert MURPHY (Carnegie Mellon University, USA), Ferréol SOULEZ (Université Lyon 1, FRA), Xavier GIDROL (CEA, FRA)

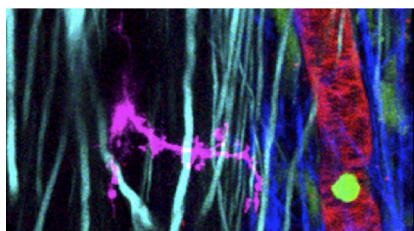
3D IMAGING OF CELLS AND DENDRITIC SPINE

Jean-Yves TINEVEZ (Institut Pasteur, FRA), Nicolas HECK (Paris Sorbonne University, FRA), Harold MAC GILLAVRY (Utrecht University, NLD), Flavie LAVOIE-CARDINAL (Laval University, CAN)



INTRACELLULAR TRAFFICKING: DYNAMICS OF ORGANELLES AND MOLECULES AT THE CELL SURFACE

Franck PEREZ (Institut Curie, FRA), Mayeul COLLOT (Université de Strasbourg, FRA), Thibault LAGACHE (Columbia University, USA), Lydia DANGLOT (Institut de Psychiatrie et Neurosciences de Paris, FRA), Yves DE KONINCK (Laval University, CAN)



IMAGING AND CELLULAR MONITORING IN VIVO: THE CHALLENGE OF COMPLEX ENVIRONMENTS WITH FOCUS ON 2 PHOTONS IMAGING

Craig JENNE (Calgary University, CAN), Franck DEBARBIEUX (Institut de Neurosciences de la Timone, FRA), Chris XU (Cornell University, USA), Laurent BOURDIEU (École Normale Supérieure, FRA)



PHASE II – TECHNICAL WORKSHOP

2019 - Paris and Marseille

In Paris (NeurImag facility, Inserm U894): Multidimensional videomicroscopy (spinning disc or airyscan) to follow vesicular transport, exocytosis, tracking of molecules, membrane morphogenesis, automated analysis of trajectories, colocalisations, cell shape (STED and SIM) and exocytosis events. In Marseille (Institute of Neuroscience): 2 photons microscopy on multicolor transgenic mice brain (neuron, microglia, monocytes-macrophages) and analysis of cell recruitment at focal lesion produced by laser illumination.

SELECTION: 10 trainees for Paris and 10 trainees for Marseille will be selected among Phase I participants.

Information and registration:
ateliers@inserm.fr