

Inserm Workshop 257

Mieux cerner les apports et limites d'une technique d'imagerie photonique au regard d'une question biologique
To better identify the contributions and limitations of light microscopy techniques with regard to a biological question

23-25 septembre 2019 / September 23-25, 2019 ■ **Bordeaux, France**

Lundi 23 septembre 2019 ■ **Monday September, 23th 2019**

15:30 - 16:00	Reception of participants
16:00 - 16:15	Welcome and presentation by the organizers
SESSION I	GET THE BEST OF LIGHT MICROSCOPY EXPERIMENTS
16:15 - 17:00	Define the workflow for optical microscopy experiments Claire Brown (McGill, Montreal, Canada)
17:00 - 17:30	Coffee break and Poster session
17:30 - 18:15	Most common problem in image acquisition Ulrike Engel (Nikon Imaging Centre, Heidelberg, Germany)
18:15 - 19:00	Which technology for which application Virginie Georget (CRBM, Montpellier, France)
19:30	Dinner

Mardi 24 septembre 2019 ■ **Tuesday September, 24th 2019**

06:30 - 08:30	Breakfast
SESSION II	CELLULAR DYNAMIC AND SUB-CELLULAR IMAGING
08:30 - 09:15	The challenges of speed for the acquisition of dynamic processes Kurt Anderson (The Francis Crick Institute, London, UK)
09:15 - 10:00	Artefacts of super-resolution imaging "artifacts caused by refractive index mismatch and spherical aberrations" Allison North (The Rockefeller University, USA)
10:00 - 10:30	Coffee break and Poster session
10:30 - 11:15	A guide to super-resolution fluorescence microscopy Romain Laine (MRC, London, UK)
11:15 - 12:00	Nanoscopy in a living multicellular organism Sophie Allart (CPTP, Toulouse, France)
12:00 - 14:00	Lunch

SESSION III	MORPHOGENESIS, EMBRYOGENESIS AND WHOLE ORGANISM IMAGING
14:00 - 14:45	Microscopy to study morphogenesis Jean Léon Maitre (Institut Curie, Paris, France)
14:45 - 15:30	Light-sheet microscopy open new way to study Cancer Corinne Lorenzo (ITAV, Toulouse, France)
15:30 - 16:00	Coffee break and Poster session
16:00 - 16:45	Intravital imaging Nicolas Tissot (Loréal Paris, France)
16:45 - 17:30	Tissue clearing techniques, light sheet microscopy and image analysis to study axon dynamics Nicolas Renier (ICM, Paris, France)
17:30 - 18:30	Round table on Hight Content Screening Nathalie Aulner (Institut Pasteur, Paris, France) and Elaine Del Nery (Institut Curie, Paris, France)
19:00 - 20:00	Cocktail
20:00	Dinner

Mercredi 25 septembre 2019 ■ **Wednesday September, 25th 2019**

06:30 - 08:30	Breakfast
SESSION IV	DATA ACQUISITION AND ANALYSIS STRATEGIES
08:30 - 09:15	Bio-image DATA in Life Sciences Research Infrastructures Jason Swedlow (University of Dundee, Dundee, UK)
09:15 - 10:00	Workflow for biological data analysis & Ethics Sébastien Tosi (IRB Barcelona, Barcelona, Spain)
10:00 - 10:30	Coffee break and Poster session
10:30 - 11:15	Analysis tools for very large images Jean-Yves Tinevez (Institut Pasteur, Paris, France)
11:15 - 12:00	Deep-learning Perrine Paul-Gilloteaux (SFR François Bonamy, Nantes, France)
12:00 - 14:00	Lunch
14:00	Departure