

Inserm Workshop 268

Microscopie à Feuille de Lumière : Principes et présentations des systèmes

Light Sheet Fluorescence Microscopy: Principles and Systems Overview

16-18 Mai 2022 / **May 16-18, 2022** ■ Bordeaux, France

Lundi 16 Mai 2022 ■ Monday May, 16 2022

14:30 - 15:00	Reception of participants
15:00 - 15:15	Welcome and presentation by the organizers
SESSION I	LSFM main principles
15:15 - 16:00	Theoretical principle and common implementations Philippe Girard (Institut J. Monod, Paris, France) & Mathieu Ducros (BIC, Bordeaux, France)
16:00 - 16:30	Coffee break
16:30 - 17:15	Sample preparation and clearing methods overview Carole Siret (CIML, Marseille, France)
17:15 - 18:00	Data management and analysis tools Cesar Augusto Valades Cruz (Institut Curie, Paris, France)
18:00 - 18:30	Phase II workshops presentation by the experts On site and/or remotely
18:30 - 20:00	Poster session
20:00	Dinner

Mardi 17 Mai 2022 ■ Tuesday May, 17 2022

06:30 - 08:30	Breakfast
SESSION II	Sample preparation & clearing
08:30 - 09:15	Various sample mounting and imaging Gopi Shah (EMBL, Barcelona, Spain) VISIO
09:15 - 10:00	Sample clearing and its applications Nicolas Renier (ICM, Paris, France)
10:00 - 10:30	Coffee break
10:30 - 11:15	LSFM in core facilities Jenny Schafer (Vanderbilt, Nashville, USA)
11:15 - 12:15	Round Tables: Session 1 RT 1: In depth LSFM: what implementation and sample preparation RT 2: Live imaging and various imaging modalities
12:15 - 13:45	Lunch

SESSION III	Various LSFM implementation
13:45 - 14:30	Oblique Plane Microscopy and its applications Christopher Dunsby (Imperial College, London, England)
14:30 - 15:15	Multi-photon in depth imaging Willy Supatto (LOB, Palaiseau, France)
15:15 - 16:00	Isotropic and fast imaging of living samples Reto Fiolka (UT Southwestern Medical Center, Dallas, USA) VISIO
16:00 - 16:30	Coffee break
16:30 - 17:15	Lattice Light Sheet and MOSAIC system imaging capacities Wesley Legant (Univ. North Carolina, Chapel Hill, USA)
17:15 - 18:00	Adaptive Optics for in depth Light sheet imaging Alexandra Fragola (Univ. Paris IV, Paris, France)
18:00 - 18:30	Multiscale imaging using the soSPIM technology Remi Galland (IINS, Bordeaux, France)
18:30 - 20:00	Cocktail & Poster session
20:00	Dinner

Mercredi 18 Mai 2022 ▣ **Wednesday May, 18 2022**

06:30 - 08:30	Breakfast
SESSION IV	Data visualization, analysis and management
08:30 - 09:15	Visualization –MultiView Fusion Jean-Yves Tinevez (Institut Pasteur, Paris, France)
09:15 - 10:00	MorphoNet Emmanuel Faure (LIRMM, Montpellier, France)
10:00 - 10:30	Coffee Break
10:30 - 11:15	Multi-dimensional visualization and deep learning tools Loic Royer (Chan Zuckerberg Biohub, San Francisco, USA)
11:15 - 12:00	Data management Perrine Paul-Gilloteaux (Univ. Nantes, France)
12:00 - 13:00	Round Tables: Session 2 Visualization, analysis and data management solutions
13:00 - 14:30	Lunch
14:30	Departure