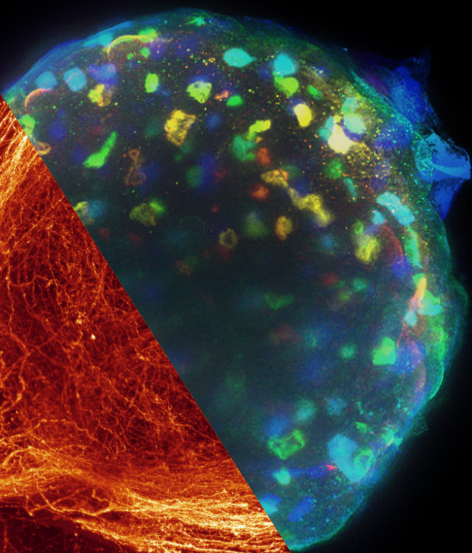
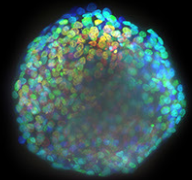
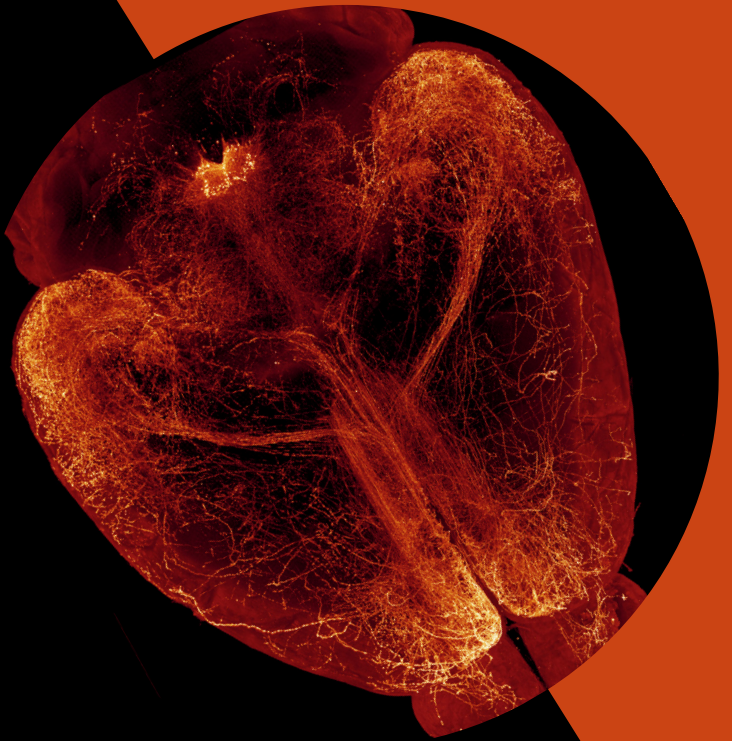


NOVEMBER 4-7
BORDEAUX

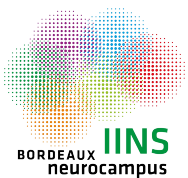
FBI-AT 2024



ADVANCED TRAINING LIGHT-SHEET MICROSCOPY

*Principle and Applications
to Neuroscience and 3D Cell Culture*

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FBI-AT 2024

Light-Sheet Fluorescence Microscopy: Principles and application to Neurosciences and 3D cell culture models

Morning Seminar Program

	Day 01 - Monday 04/11	Day 02 - Tuesday 05/11
9:00	<p>Course 01 - LSFM Principles</p> <p>P. Girard (IJM, Paris France) & M. Ducros (BIC, Bordeaux, France)</p>	<p>Adam Glasser</p> <p>How to see the big and the small? New technologies for mapping centimeter scale tissues with nanoscale resolution <i>(Allen Institute for Neural Dynamics, Seattle, USA)</i></p>
9:40	<p>Course 02 - Sample preparation and clearing methods overview</p> <p>Carole Siret <i>(Aix-Marseille Univ., CNRS, INSERM, Centre d'Immunologie de Marseille-Luminy (CIML), Marseille, France)</i></p>	<p>Farida Hellal</p> <p>Advanced Tissue-Clearing and Imaging Technologies Transform Biomedical Research <i>(Institute for Tissue Engineering and Regenerative Medicine (iTERM), Helmholtz Center Munich, Germany)</i></p>
10:20	<p>Course 03 - Light Sheet Fluorescence Microscopy Data management</p> <p>G. Maucort <i>(Univ. Bordeaux, CNRS, INSERM, Bordeaux Imaging Center, Bordeaux, France)</i></p>	<p>Alfred Millet-Sicking</p> <p>Fast, high resolution and versatile light-sheet microscopy in a convenient format: system design <i>and applications</i>. <i>(Calico Life Sciences LLC, San-Francisco USA)</i></p>
11:00	Break	Break
11:20	<p>Laura Batty</p> <p>Light-Sheet Microscopy: empowering advancement in neuroscience and medicine <i>(Wyss Center for Bio and Neuroengineering in Geneva)</i></p>	<p>Gaelle Recher</p> <p>Epithelial cell self-organisation in closed system, evidences for a gradient of phenotypes from healthy to cancerous morphogenesis <i>(Univ. Bordeaux, CNRS, Laboratoire Photonique, Numérique et Nanosciences, Institut d'Optique Graduate School, Bordeaux, France)</i></p>
12:00	<p>Julien Colombelli</p> <p>Scattered lightsheet microscopy for label free cleared tissue imaging <i>(Institute for Research in Biomedicine, Barcelona Spain)</i></p>	<p>Ihssane Idrissi & Rémi Galland</p> <p>Multi-scale Imaging using the JeWell-soSPIM Technology & Application for a Hepatotoxicity Assay <i>(Univ. Bordeaux, CNRS, Interdisciplinary Institute for Neurosciences, Bordeaux, France)</i></p>
		Indus Flash Talk – Imaging Optique & 3i

	Day 03 - Wednesday 06/11	Day04 - Thursday 07/11
9:00	<p>Vincent Studer Building and live imaging of neuronal spheroids using patterned light <i>(Univ. Bordeaux, CNRS, Interdisciplinary Institute for Neurosciences, Bordeaux, France)</i></p>	<p>Akanksha Jain Title: TBD <i>(ETH – Zurich, Switzerland)</i></p>
9:40	<p>Franziska Moos Open top dual view light sheet microscope for live imaging of large multicellular systems <i>(Univ. Basel, Friedrich Miescher Institute for Biomedical Research, Basel, Switzerland)</i></p>	<p>Angela Getz & Mathieu Ducros Lattice Light-Sheet Microscopy applied to Neuroscience Research. <i>(Univ. Bordeaux, CNRS, INSERM, Bordeaux Imaging Center, Bordeaux, France & Vrije Universiteit Amsterdam)</i></p>
10:20	<p>Georges Debrégeas Small brains and big data <i>(Jean Perrin Laboratory, Paris France)</i></p>	<p>Johannes Roos Arkitekt: Streaming analysis and real-time workflows for microscopy <i>(Johannes Kepler University, Linz Austria)</i></p>
11:00	Break	Break
11:20	<p>Thai Truong Elucidating the Neural Basis of Behaviors in Zebrafish through Structural and Functional Imaging <i>(University of Southern California, Los Angeles USA)</i></p>	<p>Alexandra Fragola Fast adaptive optics light-sheet microscopy for in vivo high-resolution imaging in depth <i>(Univ. Paris Saclay, Institut des Sciences Moléculaires d'Orsay, Orsay France)</i></p>
12:00	<p>E. Faure MorphoNet 2.0 : Efficient bio-curation of large 3D and 3D+t imaging datasets <i>(Univ. Montpellier, CNRS, Laboratory of Computer Science, Robotics and Microelectronics, Montpellier France)</i></p>	
12:40	Indus Flash Talk – Leica & Gataca	

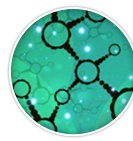
Thematic courses

P1 Large sample imaging – Clearing & Expansion

P2 3D cellular model Culture & Imaging

P3 Neuronal network imaging

P4 Image Analysis



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