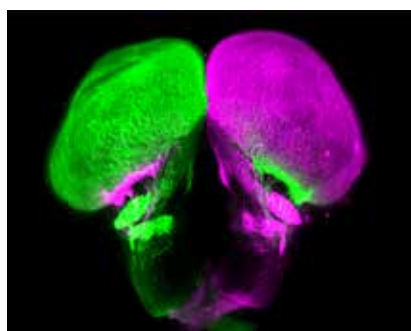




REGISTRATION DEADLINE: September 17, 2021

ORGANIZERS: Alain CHÉDOTAL (Institut de la Vision, Paris), Orestis FAKLARIS (MRI-CRBM, Montpellier), Matthieu SIMION (TEFOR Paris-Saclay, Gif-sur-Yvette)

AIMS: This workshop will provide an overview of tissue clearing techniques and their applications. All steps, from sample preparation and light-sheet imaging of millimeter thick tissues to data handling and analysis will be discussed by leading experts in the field.



PHASE I – CRITICAL ASSESSMENT

November 24-26, 2021 in Lyon

INTRODUCTION TO BIOLOGICAL SAMPLE OPTICAL CLEARING

Alain CHÉDOTAL (Institut de la Vision, FRA), Eirini PAPAGIAKOUMOU (Institut de la Vision, FRA), Ruth SIMS (Institut de la Vision, FRA)

TISSUE CLEARING TECHNIQUES

Ali ERTÜRK (Helmholtz Zentrum München, DEU), Hiroki UEDA (RIKEN, JPN), Viviana GRADINARU (California Institute of Technology, USA), Nicolas RENIER (Paris Brain Institute, FRA)

IMAGING CLEARED SAMPLES

Corinne LORENZO (RESTORE, FRA), Fabian VOIGT (University of Zurich, CHE), Pablo LOZA (ICFO, ESP)

ROUND TABLE: Morgane BELLE (Institut de la Vision, FRA), Susanne BOLTE (Institut de Biologie Paris-Seine, FRA), Orestis FAKLARIS (MRI-CRBM, FRA)

DATA ANALYSIS AND HANDLING

Perrine PAUL-GILLOTEAUX (SFR Santé François Bonamy, FRA), Stephan PREIBISCH (Janelia Research Campus, USA), Anna KRESHUK (EMBL Heidelberg, DEU), Arnim JENETT (TEFOR Paris-Saclay, FRA)



PHASE II – TECHNICAL WORKSHOP

January 12-13, 2022 - Montpellier & Paris

The objective of the practical part is to allow the participants to deal with different techniques of tissue clearing, imaging and data handling. Attendees will then be able to design experiments for their own research. Two sessions will be held in parallel :

1 - Montpellier

Sample types: mouse-rat brain, chicken embryos, organoids, mouse organ slices

Imaging : light-sheet microscopy, bi-photon, spinning-disk

Data handling: Fiji, Imaris

2 - Paris-Saclay

Sample types: mouse brain, mouse embryos, zebrafish larvae, xenopus larvae

Imaging : light-sheet microscopy, confocal microscopy

Data handling: Fiji, Imaris, Amira, Virtual Reality

SELECTION: 22 trainees will be selected among Phase I participants.

Information and registration
ateliers@inserm.fr
<https://tinyurl.com/3kt5axhx>