

Inserm Workshop 264

Transparisation optique : échantillons, imagerie 3D et analyse
Tissue clearing: sample preparation, 3D imaging and data analysis

24-26 Novembre 2021 / November 24-26 2021 ■ Lyon, France

Mercredi 24 Novembre 2021 ■ **Wednesday November, 24th 2021**

15:30 - 16:00	Reception of participants
16:00 - 16:15	Welcome and presentation by the organizers
SESSION I	Introduction to biological sample optical clearing
16:15 - 17:15	Introduction Alain CHÉDOTAL (Institut de la Vision, Paris, France)
17:15 - 17:45	Coffee Break
17:45 - 18:45	Optics in biological matter Eirini PAPAGIAKOUMOU & Ruth SIMS (Institut de la Vision, Paris, France)
19:30	Dinner

Jeudi 25 Novembre 2021 ■ **Thursday November, 25th 2021**

06:30 - 08:30	Breakfast
SESSION II	Tissue clearing techniques
08:30 - 09:15	Hydrophobic tissue clearing Ali ERTÜRK (Helmholtz Zentrum München, Neuherberg, Germany)
09:15 - 10:00	Hydrophilic tissue clearing Hiroki UEDA (RIKEN, Osaka, Japan)
10:00 - 10:30	Coffee Break
10:30 - 11:15	Hydrophilic tissue clearing Viviana GRADINARU (California Institute of Technology, Pasadena, USA)
11:15 - 12:00	Mapping transparent brains Nicolas RENIER (Paris Brain Institute, Paris, France)
12:00 - 14:00	Lunch

SESSION III	Imaging cleared samples
14:00 - 14:45	Introduction to Light Sheet imaging and biological application of organoid imaging Corinne LORENZO (RESTORE, Toulouse, France)
14:45-15:45	Imaging large cleared samples with light-sheet microscopy: from challenges to solutions Fabian VOIGT (University of Zurich, Switzerland)
15:45 - 16:15	Coffee Break
16:15 - 17:15	Adaptive optics for confocal, multi-photon and light sheet imaging Pablo LOZA (ICFO, Castelldefels, Spain)
17:15 - 18:15	ROUND TABLE: Tissue clearing: the tips and hints through a core facility approach Morgane BELLE (Institut de la Vision, Paris, France), Susanne BOLTE (Institut de Biologie Paris-Seine, France), Orestis FAKLARIS (MRI-CRBM, Montpellier, France)
18:15 - 19:00	Poster Session
19:30 - 20:15	Cocktail
20:15	Dinner

Vendredi 26 Novembre 2021 ■ **Friday November, 26th 2021**

06:30 - 08:30	Breakfast
SESSION IV	Data analysis and handling
08:30 - 09:15	Data handling Perrine PAUL-GILLOTEAUX (SFR Santé François Bonamy, Nantes, France)
09:15 - 10:00	3D visualization of large datasets Stephan PREIBISCH (Janelia Research Campus, Ashburn, USA)
10:00 - 10:30	Coffee Break
10:30 - 11:15	Data analysis and machine learning Anna KRESHUK (EMBL Heidelberg, Germany)
11:15 - 12:00	Data registration and atlasing Arnim JENETT (TEFOR Paris-Saclay, Gif-sur-Yvette, France)
12:00 - 14:00	Lunch
14:00	Departure