

LIGHTSHEET MICROSCOPY

WORKSHOP

Campus Biotech, Geneva

Day 1: **19 March 2018**: 09.00 – 17.00

Day 2: **20 March 2018**: 09.00 – 15.45

Preliminary program: Day 1

09h00	Registration - coffee and croissants	
10h00	Welcome	
	Morning session I: Sample preparation including clearing techniques and immunolabelling	Chair: Prof. Anthony Holtmaat
10h15	Prof. Nicolas Renier : 3D Histology: combining tissue clearing, immunostaining and automated analysis	ICM – Brain and Spine Institute, Paris
10h45	Selected talk	
11h15	Coffee break and networking	
	Morning session II: New approaches in post-processing	Chair: Prof. Grégoire Courtine
11h30	Dr. Maged Goubran : An automated pipeline for investigating whole-brain and tract-level alterations across resolution scales	Stanford University
12h00	Prof. Giulio Iannello : TeraTools: experiences in developing software for ultra-terabyte image processing	University Campus Bio-Medico, Rome
12h35	Lunch - Poster session	
	Afternoon session: New imaging technologies	Chair: Prof. Christian Lüscher
14h00	Selected talk	
14h30	Selected talk	
15h00	Fabian Voigt : The Swiss mesoSPIM - a versatile light-sheet microscope for imaging in cleared tissue	University of Zurich
15h30	Coffee break and networking	
16h00	Keynote Lecture - Prof. Raju Tomer : Tools for mapping brain structure and function	Columbia University
16h45	Concluding remarks	

17h00-19h00 Demo Virtual Reality – COLM/SPED lightsheet microscope/ MesoSpim Swiss Initiative microscope

Preliminary program: Day 2

09h00	Registration - coffee and croissants	
10h00	Welcome	
10h15	ZEISS Lightsheet Z1 – Discover the variety of applications!	Jacques Paysan, ZEISS
10h45	Midbrain dopaminergic characterization using Lightsheet microscopy: From idea to reality	Olivier Hagens, EPFL
11h15	Coffee break and networking	
11h30	X-Clarity™: Accelerate your tissue clearing without losing structure or function	Dr. Oliver Bauhofer, Bucher AG
11h45	Arivis Imaging Science: Discover, quantify and share	Tamara Manuelian, Arivis
12h15	Lunch	
13h30	Live demonstration of a Lightsheet Z1 workflow with data-visualization by Arivis	Jacques Paysan, ZEISS Tamara Manuelian, Arivis
15h30	Final remarks	
Hands-on sessions for the ZEISS Lightsheet Z1 and Arivis can be booked for the 21 and 22 March		

15h30 -17h30 Demo Virtual Reality – COLM/SPED lightsheet microscope/ MesoSpim Swiss Initiative microscope

Registration deadline: 15th February 2018

Website: <https://www.wysscenter.ch/wyss-lightsheet-workshop/>

Abstract submission: wism2018@wysscenter.ch