

2023 Timetable

WEDNESDAY – MAY 3RD

09:30 **Welcome and introductory information** – Boris Barbour

11:00 **Basic optics**
Guillaume Dupuis (Univ. Paris Saclay, France)

16:00 **Overview of methods in optical microscopy** Brad Amos (LMB Cambridge, UK)

14:00 **Electronics primer**
Marin Manuel (Univ. Rhode Island, USA)

18:00 **Electronics of patch-clamp amplifiers**
Boris Barbour (IBENS, France) / Hubert Affolter (Sutter)

THURSDAY – MAY 4TH

09:00 **Light sources**
Martin Thomas (Cairn Research, UK)

14:00 **Optics and electronics benches**

11:00 **Setting up DIC, resolution in the optical microscope** Brad Amos (LMB Cambridge, UK)

18:00 **Lasers for one and two photon excitation**
Gail McConnell (University of Strathclyde, UK)

FRIDAY – MAY 5TH

09:00 **Fluorescence excitation**
Marie Erard (Univ. Paris Saclay, France)

14:00 **Optics and electronics benches**

11:00 **Introduction to optogenetics**
Guillaume Dugué (IBENS, France)

18:00 **Imaging single molecules in live cells**
Marianne Renner (IFM, France)

SATURDAY – MAY 6TH

09:00 **Light detectors**
Klaus Suhling (Kings College London, UK)

14:00 **Optics and electronics benches**

11:00 **EMCCD and sCMOS cameras**
Jeremy Graham (Cairn Research, UK)

18:00 **Fluorescence lifetime imaging (FLIM)**
Klaus Suhling (Kings College London, UK)

MONDAY – MAY 8TH

09:00 **Voltage and sodium imaging**
Marco Canepari (Inserm Grenoble, France)

14:00 **Optics and electronics benches**

11:00 **Extracellular recording**
Clément Léna (IBENS, France)

18:00 **Viral expression strategies**
Jonathan Bradley (IBENS, France)

TUESDAY – MAY 9TH

09:00 **Miniscopes**
Alex Leighton, Ceci Herbert (OEPS, Portugal)

14:00 **Hands-on workshop**

11:00 **Whole-cell patch-clamp**
Boris Barbour (IBENS, France)

18:00 **Fluorescent calcium indicators**
Brandon Stell (SPINN, France)

WEDNESDAY – MAY 10TH

09:00 **Tissue Clearing and Image Analysis**
Nicolas Renier (Institut du Cerveau, France)

14:00 **Hands-on workshop**

11:00 **Microscopy core facility visit @ICM**

18:00 **Neuropixels – high-density extracellular recordings**
Tim Harris (Janelia Farm, USA)

THURSDAY – MAY 11TH

09:00 **AOD-based two-photon microscopes**
Stéphane Dieudonné (IBENS, France)

11:00 **Genetically encoded calcium indicators**
Vincent Vilette (IBENS, France)

14:00 **Hands-on workshop**

18:00 **Wavefront modulation for single and two-photon patterned activation**
Emiliano Ronzitti (Institut de la Vision, France)

FRIDAY – MAY 12TH

09:00 **Deep two-photon imaging in vivo**
Laurent Bourdieu (IBENS, France)

11:00 **Transgenic approaches to label neurons**
Jean Livet (Institut de la Vision, France)

14:00 **Hands-on workshop**

18:00 **Open Ephys**
Josh Siegle (Allen Institute, USA)

SATURDAY – MAY 13TH

09:00 **Photolysis**
Federico Trigo (IIBCE, Uruguay)

11:00 **Glutamate sensors**
Katalin Török (St Georges's Univ. London, UK)

14:00 **Hands-on workshop**

18:00 **Spike sorting**
Aurélien Wyngaard (IBENS, France)

MONDAY – MAY 15TH

09:00 **Demonstration @ IBENS**

14:00 **Hands-on workshop**

18:00 **Total Internal Reflection Fluorescence Microscopy**
Martin Oheim (SPPIN, France)

TUESDAY – MAY 24TH

09:00 **Super-resolution microscopy**
Marc Guillon (SPPIN, France)

11:00 **Light sheet imaging in vivo**
Georges Debregeas (Lab. Jean Perrin, France)

14:00 **Fluorescence functional imaging in freely moving rodents**
Cathie Ventalon (IBENS, France)

16:00 **Image analysis**
Sébastien Wolf (IBENS, France)

