

Latest advances in imaging neural activity in freely moving animals



Brice BATHELLIER (Institut de l'Audition, Paris),
Nicolas GERVASI (CIRB, Paris) & **Cathie VENTALON**
(IBENS, Paris)

The workshop will review methodological and technological advances, including miniaturized microscopes, data analysis, and computational neuroscience, balancing theoretical and technical aspects of neural activity imaging in freely moving animals.



Deadline : **June 27, 2025**

PHASE I THEORETICAL



October
7-9, 2025



Montpellier

FIBER PHOTOMETRY & BIOSENSEURS ENGINEERING

François ST-PIERRE (Baylor College, USA), Thomas
AKAM (University of Oxford, GBR) & Anna BEYELER
(Neurocentre Magendie, FRA)

BRAIN IMAGING USING SINGLE PHOTON EXCITATION

Daniel AHARONI (UCLA, USA), Cathie VENTALON
(ENS, FRA) & Ana João RODRIGUES (Life and Health
Sciences Research Institute, PRT)

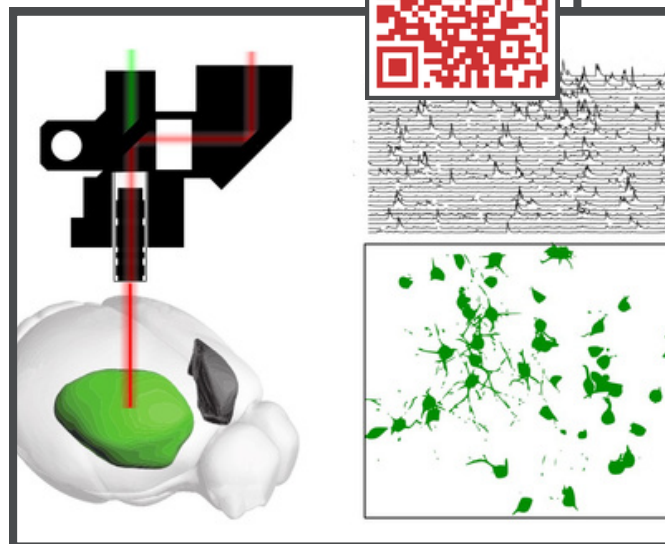
BRAIN IMAGING USING MULTIPHOTON EXCITATION

Weijian ZONG (Kavli Institut, NOR), Jason KERR (Max
Planck Institute, DEU) & Nicolò ACCANTO (Institute for
Bioengineering of Catalonia, ESP)

PRE-PROCESSING AND ANALYSIS OF IMAGING DATA

Arthur PELLEGRINO (University College London,
GBR), Demian BATTAGLIA (University of Strasbourg,
FRA) & Kenneth HARRIS (University College London,
GBR)

Inserm
Workshop **284**



PHASE II PRACTICAL



3 days in
November 2025



Paris

The practical phase will be divided into three independent workshops focused on data acquisition, conducted over two days:

1. Fiber photometry
2. One-photon imaging
3. Multiphoton imaging in behaving animals

Following these two days, all participants will come together for a joint session dedicated to data preprocessing (filtering, motion correction, registration, etc.) and analysis.

SELECTION: 4 trainees will be selected for each technical among Phase I participants.

INFORMATION &
REGISTRATION **CLICK HERE**