

Program FluoDay 2017

8:30-9:00 Welcome in IBS hall

9:00-9:15 Introduction by Karin Pernet-Gallay

9:20-10:20 *What types of fluorescence imaging techniques are available in Grenoble?*

- 9:20-9:30 Mylène Pezet (IAB)
Microcell : Photonic imaging and flow cytometry facility. From traditional to advanced fluorescence techniques
- 9:30-9:40 Jean-Philippe Kleman (IBS)
M4D: cell imaging platform for cytometry, time-lapse, confocal & super-resolution microscopy
- 9:40-9:50 Laetitia Kurzawa (BIG)
MuLife imaging facility
- 9:50-10:00 Emmanuelle Soleihac (BIG)
High Content Screening strategies at the CMBA platform and applications
- 10:00-10:10 Jacques Brocard (GIN)
Photonic Imaging Center of Grenoble Institute of Neurosciences
- 10:10-10:20 Irène Wang (LIPhy)
MIBIOP: Microscopy platform for biophysics
- 10:20-10:30 Cecile Cottet (UGA)
Metabolism imaging: visualization of mitochondrial function

10:30-11:00 Coffee break

11:00-11:20 Introduction to fluorescence & fluorescent proteins by Virgile Adam

11:20-12:20 *Round table for beginners*

Advice will be provided on topics brought by participants: choice of fluorescent label, background signal, imaging in plants/bacteria/mammals, coupling photomanipulation, optogenetics & modelling, etc.

12:20-13:45 Lunch

Platform posters, fluorescence hotline (2 experts will answer specific questions from participants)

13:45-15:10 *What can fluorescence microscopy bring to your biological projects?*

- 13:45-14:00 Laure Fourel (IAB)
How to investigate the coupling between growth factors and integrins?
- 14:00-14:15 Monia Barnat (GIN)
High resolution microscopy and three-dimensional reconstruction of neurons: tools to study Huntington's Disease
- 14:15-14:30 Martial Balland (LIPhy)
Force imaging: another way to look at cellular processes
- 14:30-14:45 Isabelle Tardieux (Jean Roget - IAB)
Real-time high speed and quantitative imaging to decipher the invasive strategy of the human parasite Toxoplasma
- 14:45-15:00 Joanna Timmins (IBS)
DNA repair studies: The added value of fluorescence imaging
- 15:00-15:15 Pavithra Singaravelu (BIG)
Total Internal Reflection Microscopy (TIRF) as a tool to study proteins at the single filament level in vitro

15:15-15:45 Coffee break

15:45-17:00 *Round table for experts*

Animated by Dominique Bourgeois and Olivier Destaing: discussion of the infrastructure for fluorescence microscopy in the Grenoble area.