



3D Nanoscopy with Single Molecule Localization: theory and practice



30th-31st October 1st November
King's College London, Guys Campus, Microscopy Innovation Center

What: A free 3 full days course combining theory and practice

Who: PhD students, Post Doc, Researchers, Technicians, Engineers

Requirements: Basic knowledge on fluorescence microscopy

Objectives

- Gain insight into theoretical and practical aspects of 3D Nanoscopy: Single Molecule Localization Microscopy (SMLM).
- Learn how to prepare a sample for successful SMLM
- Acquisition of super-resolved images
- Analysis of super-resolved images

Program

October 30

- 09:00 - 10:30 Approaching the nanoworld
- 10:30 - 12:00 How to obtain 3D information with SMLM
- 12:00 - 14:00 Lunch break
- 14:00 - 18:00 Station A: practice on abbelight 3D nanoscope DAISY (using standard samples)
Station B: analysis with abbelight software NEO

October 31

- 09:00 - 10:30 Quantitative imaging: practical tips and tricks with SMLM
- 10:30 - 12:00 Round table on specific projects
- 12:00 - 14:00 Lunch break
- 14:00 - 18:00 Station A: practice on abbelight 3D nanoscope DAISY (using attendee samples)
Station B: analysis with abbelight software NEO

November 1

- 09:00 - 10:30 A pointillistic perspective
- 10:30 - 12:00 Round Table on specific projects
- 12:00 - 14:00 Lunch break
- 14:00 - 18:00 Station A: practice on abbelight 3D nanoscope DAISY (using attendee samples)
Station B: analysis with abbelight software NEO