

# Hands-on Workshop on Fluorescence and *High-Throughput Microscopy*

Lisboa (Portugal) 11 – 15 July 2016

An initiative of the FCUL node of the Portuguese Platform of BioImage

- ✓ Learn about the latest developments on High-Throughput Microscopy, and discuss your project with the experts

## Topics

- Fluorescence microscopy: limits and potentialities
- Detecting light in optical systems
- Imaging the cytoskeleton in live cells and with super-resolution
- FRET and FLIM imaging
- High – throughput Microscopy (HTM) overview
- HTM RNAi screening
- Automated image acquisition
- Imaging and Statistical analysis

## Tutorials

- Live cell imaging: confocal versus wide-field systems
- Live cell imaging: Image acquisition and output
- HTM Assay development
- siRNA design
- Visual inspection and statistical analysis of HTM data
- Image Analysis: Cell Profiler
- Image Analysis: Image J
- **Lab work:** Using automated fluorescence microscopy to image a membrane protein in cells treated with an siRNA library

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More info at: [www.ciencias.ulisboa.pt/HTM2016](http://www.ciencias.ulisboa.pt/HTM2016)