



Web-based PhD-level course, 3 hp credits, by the ALM facility at Scilifelab:



# New Imaging and Fluctuation Methods: Super-Resolution, Light-Sheet, STED-FCS and FRET-FCS

May 30th – June 10th 2022

registration:  
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## Light-Sheet Imaging:

- Long time-lapse imaging of live model organisms with low phototoxicity
- Combined light-sheet and super-resolution

## STED-FCS:

- Fluctuation spectroscopy with 30 nm resolution
- Sub-diffraction dynamics in living cells

## Super-Resolution Imaging in Living Cells - MoNaLISA:

- smart probes
- 50 nm resolution at 1-2 Hz
- 100 x 100 um field of view
- time lapse imaging

## Lecturers:

Andreas Bodén  
Erdinc Sezgin  
Ilaria Testa  
Stefan Wennmalm

## FRET-FCS:

- Easy detection of protein-protein interactions in living cells
- Highly sensitive detection of rare oligomers in living cells