

PhD-level course, 3 hp credits, at the ALM facility at Scilifelab Solna, Stockholm

New Imaging and Fluctuation Methods Super-resolution, light-sheet, and FCS-techniques, FSK 3533

Light-sheet imaging

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

Super-resolution imaging in living cells - MoNaLISA

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

May 22-25th course/demos
May 29th – June 2nd own project

registration:
stewen@kth.se

Lecturers:
Steven Edwards
Erdinc Sezgin
Hans Blom
Francesca Pennacchietti
Stefan Wennmalm

FCS-techniques

- FCS, FCCS and FRET-FCS of protein-protein interactions in living cells
- STED-FCS with 30 nm resolution
- Scanning-FCS in living cells without FCS equipment

May 26th Minflux symposium

09:15 am – MINFLUX imaging & tracking
Sebastian Schnorrenberg – EMBL

09:55 am – DNA-PAINT MINFLUX
Daniel Jans – University Medical Center Göttingen

Coffee break

11:00 am – Tracking MINFLUX
Elias Amselem – Uppsala University