Neurowetenschappen
Amsterdam Rotterdam

OIC Course Functional Imaging and Super Resolution
Rotterdam
November 9-13, 2026

TOPICS:	Time Lapse, Lightsheet, FRAP, FRET, FLIM, Single Molecule Localization, SIM, STED, Fluorescent Proteins, Quantitative Data Analysis, and more	
Organizers:	Adriaan Houtsmuller, Johan Slotman and Gert-Jan Kremers, Erasmus OIC, Erasmus MC	
Participants:	PhD's, Postdocs, anyone interested	
Venue:	Erasmus MC Rotterdam	
Registration:	**https://erasmusoic.nl/phd**	
Costs:	MGC, ONWAR, Graduate School Others (PhD students, Post-docs) Others non-commercial participants Lectures only	0 € 350 € 350 € 0 €

This five day course consists of lecture sessions in the morning and practical sessions in the afternoon. On Monday and Thursday there will also be evening sessions with a dinner. In the final session on Friday afternoon participants will present and discuss the results of their practical work. The practical sessions can be attended by a maximum of 25 participants (5 groups of 5 participants).

Program

Monday 9/11

Registration (Natuurhistorisch Museum)		9:00 – 9:30
Lectures (Natuurhistorisch Museum)		
Introduction	Jeffrey van Haren, OIC	9:30 – 10:10
Probes for microscopy	Gert-Jan Kremers, OIC	10:10 – 11:00
Coffee/Tea break		11:00 – 11:20
Correlated light and electron microscopy and ColorEM	Ben Giepmans, UMCG	11.20 – 12.20
Lunch		12:30 – 14:00
Practical work		
Hands-on Introduction	OIC-team	14:00 – 16:00
Coffee/Tea break		16:00 – 16:15
Time Lapse Microscopy	OIC-team	16:15 – 17:30
Evening Session:	Participants and OIC	18:00 – 21:00

Dinner in restaurant "de Machinist"

Short introduction by participants (one minute pitch)

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Tuesday 10/11

Lectures (Natuurhistorisch Museum)

Optogenetics	Jeffrey van Haren, OIC	9:30 – 10:20
FRAP	Adriaan Houtsmuller, OIC	10:20 – 11:10
Coffee/Tea break		11:10 – 11:30
FLIM & FRET	Jan Willem Borst, WUR	11:30 – 12:20
Lunch		12:30 – 13:30

Practical work

FRAP		13:30 – 15:15
Coffee/Tea break	Coffee/Tea break	15:15 – 15:45
FRAP		15:45 – 18:00

Wednesday 11/11

Lectures (Natuurhistorisch Museum)

Super-resolution Microscopy I	Johan Slotman, OIC	9:30 – 10:20
Multi-photon and Ca2+ Imaging	Aaron Wong, EMC	10:20 – 11:10
Coffee/Tea break		11:10 – 11:30
Lightsheet Microscopy	Gert-Jan Kremers, OIC	11.30 – 12.20
Lunch		12:30 – 13:30

Practical work

Optogenetics, STED, dSTORM, Airyscan, or Lightsheet	13:30 – 15:30
Coffee/Tea break	15:30 – 16:00
Optogenetics, STED, dSTORM, Airyscan, or Lightsheet	16:00 – 18:00

Functional and Super Resolution Imaging

Thursday 12/11

Lectures (Natuurhistorisch Museum)

Super-resolution Microscopy II	Johan Slotman, OIC	9:30 – 10:20
Sponsor lectures	Companies	10:20 – 11:10
Coffee/Tea break		11:10 – 11:25
ImageJ / FIJI	Johan Slotman, OIC	11:25 – 12:00
Lunch		12:15 – 13:00
Practical work		
Demo: Optogenetics, STED, dSTORM, Airyscan, or Lightsheet	OIC team	13:00 – 15:00
Coffee/Tea break		15:00 – 15:15
Data analysis (Ae-406)	OIC team	15:15 – 18:00
Dinner + Data Analysis (Ae-406)		18:00 – 20:00

Friday 13/11 **Seminar and Presentations by Participants**

Preparation presentation (Erasmus MC)		9:30 – 12:00
Lunch		12:00 – 12:45
Presentations by participants (Natuurhistorisch Museum)	*(5 groups; 15 minutes each + 5 minutes discussion)*	13:00 – 15:00
Keynote lecture: Actomyosin contractility terminates a burst of clathrin-mediated endocytosis during oocyte maturation	Teije Middelkoop, Institute of Molecular Genetics, Czech Academy of Sciences, Prague, Czech Republic	15:00 – 16:00
Goodbye Drinks/Snacks (Erasmus MC, Ae-406)		16:00

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