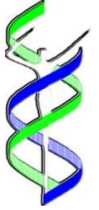




**OIC Course Functional Imaging and Super Resolution
Rotterdam
November 11-15, 2024**



TOPICS:	Time Lapse, Lightsheet. FRAP, FRET, FLIM, Single Molecule Localization, SIM, STED, MinFlux, Fluorescent Proteins, Quantitative Data Analysis, and more	
Organizers:	Adriaan Houtsmuller, Gert van Cappellen, 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	0 €
	Others (PhD students, Post-docs)	300 €
	Others non-commercial participants	300 €
	Lectures only	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 11/11

Registration (Natuurhistorisch Museum) 9:00 – 9:30

Lectures (Natuurhistorisch Museum)

Introduction	Gert van Cappellen, OIC	9:30 – 10:20
Probes for microscopy	Gert-Jan Kremers, OIC	10:20 – 11:10
Coffee/Tea break		11:10 – 11:30
Correlated light and electron microscopy and ColorEM	Ben Giepmans, UMCG	11.30 – 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)



Functional and Super Resolution Imaging

Tuesday 12/11

Lectures (Natuurhistorisch Museum)

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

Lectures (Natuurhistorisch Museum)

Super-resolution Microscopy	Johan Slotman, EMC	9:30 – 10:20
Multi-photon and Ca ²⁺ Imaging	Aaron Wong, EMC	10:20 – 11:10
Coffee/Tea break		11:10 – 11:30
MinFlux super-resolution	Dirk Luchtman, Abberior	11.30 – 12.20
Lunch		12:30 – 13:30

Practical work

STED, SMT, RCM, MinFlux, or Lightsheet		13:30 – 15:30
Coffee/Tea break		15:30 – 16:00
STED, SMT, RCM, MinFlux, or Lightsheet		16:00 – 18:00



Functional and Super Resolution Imaging

Thursday 14/11

Lectures (Natuurhistorisch Museum)

Lightsheet microscopy	Gert-Jan Kremers, EMC	9:30 – 10:20
ImageJ / FIJI	Gert van Cappellen, OIC	10:20 – 11:10
Coffee/Tea break		11:10 – 11:25
Data analysis	OIC team	11:25 – 12:15
Lunch		12:30 – 13:00

Practical work

Demo: STED, SMT, RCM, MinFlux, Lightsheet	OIC team	13:00 – 15:00
Coffee/Tea break		15:00 – 15:15
Data analysis	OIC team	15:15 – 18:00
<u>Dinner + Data Analysis</u>		18:00 – 20:00

Friday 15/11

Seminar and Presentations by Participants

Preparation presentation (Erasmus MC)		9:30 – 12:00
Lunch		12:00 – 12:45
Presentations by participants (Natuurhistorisch Museum)	<i>(5 groups; 15 minutes each + 5 minutes discussion)</i>	13:00 – 15:00
Keynote lecture: Development of novel fluorescent proteins and biosensors	Joachim Goedhart, UvA	15:00 – 16:00
<u>Goodbye Drinks/Snacks</u> (Erasmus MC)		16:00

