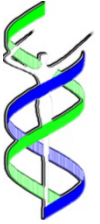


**OIC Course Functional Imaging and Super Resolution  
Rotterdam  
November 6-10, 2023**



TOPICS:	Time Lapse, Lightsheet. FRAP, FRET, FLIM, Single Molecule Localization, SIM, STED, 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:	<a href="https://erasmusoic.nl/phd">https://erasmusoic.nl/phd</a>	
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 6/11

Registration (Natuurhistorisch Museum)		9:00 – 9:30
<u>Lectures</u> (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
Super-resolution Microscopy	Johan Slotman, EMC	11:30 – 12:20
Lunch		12:30 – 14:00
<u>Practical work</u>		
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
<u>Evening Session:</u>	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 7/11

### Lectures (Natuurhistorisch Museum)

Correlated light and electron microscopy and ColorEM	Ben Giepmans, UMCG	09:30 – 10:20
FLIM/FRET	Jan Willem Borst, WUR	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 8/11

### Lectures (Natuurhistorisch Museum)

Lightsheet imaging	Gert-Jan Kremers, EMC	09:30 – 10:20
Optogenetics	Jeffrey van Haren, EMC	10:20 – 11:10
Coffee/Tea break		11:10 – 11:30
Single Molecule Localisation	Johan Slotman, OIC	11:30 – 12:20
Lunch		12:30 – 13:30

### Practical work

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

---



# Functional and Super Resolution Imaging

## Thursday 9/11

### Lectures (Ae-406)

Multi-photon and Ca <sup>2+</sup> Imaging	Aaron Wong, EMC	09:30 – 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, Decon, 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 10/11

## Seminar and Presentations by Participants

Preparation presentations		09:30 – 12:00
Lunch		12:00 – 12:45
Presentations by participants ( <i>Natuurhistorisch Museum</i> )	(5 groups; 15 minutes each + 5 minutes discussion)	13:00 – 15:00
Keynote lecture	Selçuk Yavus, EMC	15:00 – 16:00
<u>Goodbye Drinks/Snacks (Ae-406)</u>		16:00

