



**OIC Course Functional Imaging and Super Resolution  
Rotterdam  
November 5-9, 2018**

TOPICS:	Time Lapse, FRAP, FRET, FLIM, Super Resolution, Rescan, Single Molecule Localization, PALM, STORM, Fluorescent Proteins, Quantitative Data Analysis	
Organisers:	Adriaan Houtsmuller, Gert van Cappellen and Gert-Jan Kremers, Erasmus OIC, Erasmus MC	
Participants:	PhD's, Postdocs, anyone interested from MGC, Molmed and ONWAR	
Venue:	Erasmus MC Rotterdam	
Registration:	<a href="http://www.erasmusmc.nl/oic/TRED/PhDOICRegistration/">www.erasmusmc.nl/oic/TRED/PhDOICRegistration/</a>	
Costs:	MGC, ONWAR	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).

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**Program**

**Monday 5/11**

Registration (Room Ae-406) 9:00 – 9:30

Lectures

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 “La Stanza”  
Short introduction by participants (one minute pitch)

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# Functional and Super Resolution Imaging

## Tuesday 6/11

### Lectures (Room Ae-406)

FLIM/FRET	Jan Willem Borst, WUR	9:30 – 10:20
FRAP	Adriaan Houtsmuller, OIC	10:20 – 11:10
Coffee/Tea break		11:10 – 11:30
Rescan	Erik Manders, Confocal.nl	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

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## Wednesday 7/11

### Lectures (Room Ae-406)

Multi-photon and Ca <sup>2+</sup> Imaging	Tycho Hoogland, EMC	9:30 – 10:20
SIM, STORM, 4Pi	Johan Slotman, OIC	10:20 – 11:10
Coffee/Tea break		11:10 – 11:30
ImageJ / FIJI	Gert van Cappellen, OIC	11:30 – 12:20
Lunch		12:30 – 13:30

### Practical work

SIM/4Pi/STORM/Decon/FRET		13:30 – 15:30
Coffee/Tea break		15:30 – 16:00
SIM/4Pi/STORM/Decon/FRET		16:00 – 18:00

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# Functional and Super Resolution Imaging

## Thursday 8/11

### Lectures (Room Ae-406)

Deconvolution	Paul Bloembergen, SVI	9:30 – 11:10
Coffee/Tea break		11:10 – 11:30
Tracking/Deep learning	Ihor Smal, EMC	11:30 – 12:20
Lunch		12:30 – 13:30

### Practical work

Data Analysis	OIC team	13:30 – 16:15
Coffee/Tea break		16:15 – 16:30
Data analysis	OIC team	16:30 – 17:30
Dinner + Data Analysis	OIC team	17:30 – 20:00

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## Friday 9/11

## Seminar and Presentations by Participants

### Lectures (Room Ae-406)

Preparation presentations		09:30 – 12:15
Lunch		12:15 – 13:00
Presentations by participants (5 groups; 15 minutes each + 5 minutes discussion)		13:00 – 14:40
To be announced	Alessandra Cambi, Radboud	15:00 – 16:00
<u>Goodbye Drinks/Snacks</u>		16:00

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## Sponsors

