



Advanced Fluorescence Imaging Techniques

EMBL COURSE

We have moved our website to embl.org/events. The content below is no longer being updated.

EMBL Courses and Conferences during the Coronavirus pandemic

With the onsite programme paused, many of our events are now being offered in virtual formats.

Registration is open as usual for many events, with back-up plans in place to move further courses and conferences online as necessary. Registration fees for any events affected by the COVID-19 disruption are fully refundable.

More information for participants of events at EMBL Heidelberg can be found [here](#).

Programme

Got something to say? Tweet it with [#EMBLfluorescence](https://twitter.com/EMBLfluorescence)

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Day 1 - Sunday 24 June 2018

Time	Speaker	Location
17:30 - 21:00	Flash talks of participants and dinner at the ISG Hotel	ISG Hotel

Day 2 - Monday 25 June 2018

Time	Speaker	Location
09:00 - 09:15	Welcome and introduction	Courtyard A+B
09:15 - 10:00	Concepts in light microscopy! Urs Ziegler, <i>University of Zurich, Switzerland</i>	Courtyard A+B

Time	Speaker	Location
10:00 - 10:15	Coffee break	Courtyard A+B
10:15 - 11:00	Sample Preparation Approaches for Super-Resolution Microscopy and expansion microscopy Pedro Matos Pereira, <i>University College London, United Kingdom</i>	Courtyard A+B
11:00 - 12:00	Expansion microscopy sample preparation I Pedro Matos Pereira, <i>University College London, United Kingdom</i>	Training Lab A
12:00 - 13:00	Lunch	Canteen
13:00 - 16:00	Practical 1: Widefield + Spinning disk Time lapse imaging (group Red+Yellow) Practical 2: Confocal imaging (group Green+Blue)	Microscopy rooms 116 + 117
16:00 - 16:30	Coffee break	Courtyard A+B
16:30 - 19:30	Practical 1: Widefield + Spinning disk Time lapse imaging (group Red+Yellow) Practical 2: Confocal imaging (group Green+Blue)	Microscopy rooms 116 + 117
19:30 - 20:30	Pizza Dinner	ATC Rooftop lounge
20:30 - 21:30	Basics of Image Handling Christian Tischer, <i>EMBL Heidelberg, Germany</i>	Computer Training Lab

Day 3 - Tuesday 26 June 2018

Time	Speaker	Location
09:00 - 09:45	Multiparameter Imaging with biosensors Vsevolod Belousov, <i>Shemyakin-Ovchinnikov Inst. of Bioorganic Chemistry, Russia</i>	Courtyard A+B
09:45 - 10:00	Coffee break	Courtyard A+B

Time	Speaker	Location
10:00 - 11:00	Single-molecule super-resolution, a do-it-yourself tutorial Romain F. Laine, <i>University College London, United Kingdom</i>	Courtyard A+B
11:00 - 12:00	Confocal microscopy applications in the study of neurodegenerative disorders Isabel Lastres-Becker, <i>Instituto de Investigaciones Biomédicas "Alberto Sols", Spain</i>	Courtyard A+B
12:00 - 13:00	Lunch	Canteen
13:00 - 16:00	Practical 3: Multiparameter Imaging (group Green+Blue) Practical 4: SR Microscopy (group Red+Yellow)	Microscopy rooms 116 + 117
16:00 - 16:30	Coffee break	Courtyard A+B
16:30 - 19:30	Practical 3: Multiparameter Imaging (group Red+Yellow) Practical 4: SR Microscopy (group Green+Blue)	Microscopy rooms 116 + 117
19:30 - 20:30	Dinner	Canteen
20:30 - 21:30	Expansion microscopy sample preparation II Pedro Matos Pereira, <i>University College London, United Kingdom</i>	Training Lab A
21:30	Shuttle bus to hotel	

Day 4 - Wednesday 27 June 2018

Time	Speaker	Location
09:00 - 09:45	Optogenetics in Cell Biology Stefano De Renzi, <i>EMBL Heidelberg</i>	Courtyard A+B
09:45 - 10:00	Coffee break	Courtyard A+B
10:00 - 10:45	Fluorescence recovery after photobleaching (FRAP) Aliaksandr Halavatyi, <i>EMBL Heidelberg, Germany</i>	Courtyard A+B

Time	Speaker	Location
10:45 - 11:00	Coffee Break	Courtyard A+B
11:00 - 12:00	Expansion microscopy sample preparation III Pedro Matos Pereira, <i>University College London, United Kingdom</i>	Computer Training Lab
12:00 - 13:00	Lunch	Canteen
13:00 - 15:30	Practical 5: FRAP (group Red+Yellow) Practical 6: Deconvolution analysis (group Green+Blue)	Computer Training Lab/Microscopy rooms 116 + 117
15:30 - 16:00	Coffee break	Courtyard A+B
16:00 - 18:30	Practical 5: FRAP (group Green+Blue) Practical 6: Deconvolution analysis (group Red+Yellow)	Computer Training Lab/Microscopy rooms 116 + 117
18:45	Shuttle downtown (via ISG Hotel)	
19:30 - 21:30	Dinner downtown	

Day 5 - Thursday 28 June 2018

Time	Speaker	Location
09:00 - 10:00	Multiparameter analysis Vsevolod Belousov, <i>Shemyakin-Ovchinnikov Inst. of Bioorganic Chemistry, Russia</i>	Computer Training Lab
10:00 - 10:15	Coffee break	Courtyard A+B
10:15 - 11:00	From Morphometry to Function: Imaging & Quantitative Analysis of Microtubule Dynamics in vitro & in vivo Simone Reber, <i>IRI for the Life Sciences, Germany</i>	Courtyard A+B
11:00 - 11:45	Förster Resonance Energy Transfer Mark Hink, <i>University of Amsterdam, The Netherlands</i>	Courtyard A+B
11:45 - 12:00	Coffee break	Courtyard A+B

Time	Speaker	Location
12:00 - 12:45	Acquire, analyze, present - life of a microscopic image Gabriela Plucinska, <i>Utrecht University, The Netherlands</i>	Courtyard A+B
12:45 - 13:45	Lunch	Canteen
13:45 - 16:30	Practical 7: Analysis of Superresolution data (group Red+Yellow) Practical 8: FRET: acceptor photobleaching (group Green+Blue)	Computer Training Lab/Microscopy rooms 116 + 117
16:30 - 16:45	Coffee break	Courtyard A+B
16:45 - 19:30	Practical 7: Analysis of Superresolution data (group Green+Blue) Practical 8: FRET: acceptor photobleaching (group Red+Yellow)	Computer Training Lab/Microscopy rooms 116 + 117
19:30	Shuttle Bus to Hotel	
19:45	BBQ dinner and World Cup viewing at the ISG Hotel	ISG Hotel

Day 6 - Friday 29 June 2018

Time	Speaker	Location
09:00 - 11:00	FRET data analysis Mark Hink, <i>University of Amsterdam, The Netherlands</i>	Computer Training Lab
11:00 - 11:15	Coffee break	Computer Training Lab
11:15 - 13:00	FRAP analysis Aliaksandr Halavatyi, <i>EMBL Heidelberg, Germany</i>	Computer Training Lab
13:00 - 14:00	Lunch break	Canteen
14:00 - 15:45	Analysis and preparation of presentations	Computer Training Lab
15:45 - 16:00	Coffee break	Computer Training Lab

Time	Speaker	Location
16:00 - 17:00	Data presentation by participants	Computer Training Lab
17:00 - 17:30	Summary of the course and discussion	Computer Training Lab
17:30	Shuttle bus to main train station	