

# Course Program

## International Advanced Confocal Microscopy Course

Date: October 05<sup>th</sup> – 08<sup>th</sup>, 2010

Location: Advanced Light Microscopy Unit  
Centre for Genomic Regulation, Barcelona, Spain



Course Fee: EURO 990.00  
(the course is limited to 12 participants)

Hotel accommodation: not included

### Tuesday, October 05<sup>th</sup>

9:00 – 9:15	Course Introduction	Gabriele Burger
9:15 – 10:00	Confocal Microscopy – Development & Considerations, Objectives & Optical Aberrations in Confocal Microscopy	Gabriele Burger
10:00 – 10:30	Coffee Break	
10:30 – 11:15	Introduction to FRET and FRET Imaging	Timo Zimmermann
11:15 – 12:15	Basics and Principle: FLIM	Constantin Kappel
12:15 - 13:00	FRET Ratio Imaging and Sensitized Emission	Raquel Garcia
13:00 – 14:00	Lunch	
14:00 – 15:30	Practical Session Part 1: Image Quality	All
15:30 – 16:00	Coffee Break	
16:00 – 17:30	Practical Session Part 2: Image Quality Hands on	All
20:00	Joint Dinner	All

# Course Program

## Wednesday, October 06<sup>th</sup>

9:00 – 9:45	FLIM - FRET	Constantin Kappel
9:45 – 10:30	Applied Scientific Talk: FRET Applications	Eike Latz
10:30 – 11:00	Coffee break	
11:00 – 13:00	Practical Session Part 1	
	FLIM Introduction	Group 1
	FRET Ratio Imaging	Group 2
	FRET Acceptor Photo Bleaching	Group 3
13:00 – 14:00	Lunch break	
14:00 – 15:30	Practical Session Part 2	
	FLIM - FRET	Group 1
	FRET Sensitized Emission	Group 2
	FRET Acceptor Bleaching Advanced	Group 3
15:30 – 16:00	Coffee break	
16:00 – 17:30	Practical session Part 3	
	FLIM: Hands on	Group 1
	FRET Ratio & SE: Hands on	Group 2
	FRET AB: Hands on	Group 3

# Course Program

## Thursday October, 07<sup>th</sup>

9:00 – 9:45	Applied Scientific Talk: FLIM Applications	N.N.
9:45 – 10:30	Applied Scientific Talk: FRET Constructs and Development	N.N.
10:30 – 11:00	Coffee break	
11:00 – 13:00	Practical Session Part 1	
	FLIM Introduction	Group 2
	FRET Ratio Imaging	Group 3
	FRET Acceptor Photo Bleaching	Group 1
13:00 – 14:00	Lunch break	
14:00 – 15:30	Practical Session Part 2	
	FLIM - FRET	Group 2
	FRET Sensitized Emission	Group 3
	FRET Acceptor Bleaching Advanced	Group 1
15:30 – 16:00	Coffee break	
16:00 – 17:30	Practical session Part 3	
	FLIM: Hands on	Group 2
	FRET Ratio & SE: Hands on	Group 3
	FRET AB: Hands on	Group 1

# Course Program

Friday October, 08<sup>th</sup>

9:00 – 11:00	Practical Session Part 1	
	FLIM Introduction	Group 3
	FRET Ratio Imaging	Group 1
	FRET Acceptor Photo Bleaching	Group 2
11:00 – 11:30	Coffee break	
11:30 – 13:00	Practical Session Part 2	
	FLIM - FRET	Group 3
	FRET Sensitized Emission	Group 1
	FRET Acceptor Bleaching Advanced	Group 2
13:00 – 14:00	Lunch break	
14:00 – 15:30	Practical Session Part 3	
	FLIM: Hands on	Group 3
	FRET Ratio & SE: Hands on	Group 1
	FRET AB: Hands on	Group 2
15:30 – 16:00	Coffee break	
16:00 – 16:30	Final Discussion & Certificate	All