

Course Program

International Advanced Confocal Microscopy Course

Date: October 06th – 09th, 2009

Location: National Institute of Health
4 Center Dr, Bldg 4 Room B230
Bethesda, MD 20892, U.S.A.

Course Fee: US \$ 990.00
(the course is limited to 15 participants)

Hotel accommodation: not included

Tuesday, October 06th

09:00 am – 09:15 am	Course Introduction	Gabriele Burger
09:15 am – 10:00 am	Confocal Microscopy – Development & Considerations, Objectives & Optical Aberrations	Gabriele Burger
10:00 am – 10:30 am	Coffee Break	
10:30 am – 11:15 am	Dye Separation, Multicolor Imaging and Analysis	Lee Peachey
11:15 am – 12:00 am	Basics and Principle: FRAP, FLIP, Photoactivation	Jan Schroeder
12:00 am – 01:15 pm	Lunch	
01:15 pm – 02:00 pm	Basics and Principle: FRET	Gabriele Burger
02:00 pm – 03:30 pm	Practical Session Part 1: Image Quality	All
03:30 pm – 04:00 pm	Coffee Break	
04:00 pm – 05:30 pm	Practical Session Part 2: Image Quality Hands On	All
07:00 pm	Joint Dinner	All

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Wednesday, October 07th

09:00 am – 09:45 am	Topic of Common Interest : FRET Applications	Eike Latz
09:45 am – 10:30 am	Topic of Common Interest: MP imaging	Owen Schwartz
10:30 am – 11:00 am	Coffee Break	
11:00 am – 01:00 pm	Practical Session Part 1	
	Multi Colour Imaging and Dye Separation	Group 1
	Live Cell Imaging	Group 2
	FRET Acceptor Photo Bleaching	Group 3
01:00 pm – 02:00 pm	Lunch Break	
02:00 pm – 03:30 pm	Practical Session Part 2	
	MCol Analysis	Group 1
	FRAP	Group 2
	FRET Sensitized Emission	Group 3
03:30 pm – 04:00 pm	Coffee Break	
04:00 pm – 05:30 pm	Practical session Part 3	
	Dye Separation, Mcol Imaging and Analysis: Hands On	Group 1
	FRAP and Live Cell Imaging: Hands On	Group 2
	FRET AB and SE: Hands On	Group 3

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Thursday October, 08th

09:00 am – 09:45 am	Topic of Common Interest: White Light Laser Imaging and Applications	Jan Schroeder
09:45 am – 10:30 am	Topic of Common Interest: APD Imaging	Gabriele Burger
10:30 am – 11:00 am	Coffee Break	
11:00 am – 01:00 pm	Practical Session Part 1 Multi Colour Imaging and Dye Separation Live Cell Imaging FRET Acceptor Photo Bleaching	Group 2 Group 3 Group 1
01:00 pm – 02:00 pm	Lunch Break	
02:00 pm – 03:30 pm	Practical Session Part 2 MCol Analysis FRAP FRET Sensitized Emission	Group 2 Group 3 Group 1
03:30 pm – 04:00 pm	Coffee Break	
04:00 pm – 05:30 pm	Practical session Part 3 Dye Separation, Mcol Imaging and Analysis: Hands On FRAP and Live Cell Imaging: Hands On FRET AB and SE: Hands On	Group 2 Group 3 Group 1

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Friday October, 09th

09:00 am – 10:30 am	Practical Session Part 1	
	Multi Colour Imaging and Dye Separation	Group 3
	Live Cell Imaging	Group 1
	FRET Acceptor Photo Bleaching	Group 2
10:30 am – 11:00 am	Coffee Break	
11:00 am – 01:00 pm	Practical Session Part 2	
	MCol Analysis	Group 3
	Live Cell Imaging	Group 1
	FRET Acceptor Photo Bleaching	Group 2
01:00 pm – 02:00 pm	Lunch Break	
02:00 pm – 03:30 pm	Practical Session Part 3	
	Dye Separation, Mcol Imaging and Analysis: Hands On	Group 3
	FRAP and Live Cell Imaging: Hands On	Group 1
	FRET AB and SE: Hands On	Group 2
03:30 pm – 04:00 pm	Coffee Break	
04:00 pm – 04:30 pm	Final Discussion & Certificate	All