

3rd Advanced course in OPTOGENETICS

October 24-28, 2016

A Training Unit International Course - Open conferences in blue

Monday 24/10: Optogenetics: an introduction		Chairs: Filippo Del Bene and Sophie Vriz
Amphithéâtre Marie Curie, 11-13 rue Pierre & Marie Curie, 75005 Paris		
09:00 10:30	Sophie Vriz Université Paris Diderot, Paris, FR	Optogenetics: an introduction
10:30 11:00	COFFEE BREAK (Joliot room)	
11:00 11:45	Sophie Vriz Université Paris Diderot, Paris, FR	Photoactivable and photoswitchable fluorescent proteins for cell biology
11:45 12:30	Sophie Vriz Université Paris Diderot, Paris, FR	Photorelease technology for control of cellular chemistry and physiology
12:30 13:45	LUNCH (Green Café)	
14:00 15:30	Filippo Del Bene UMR3215, Institut Curie/CNRS, FR	Fluorescence as a sensor for cellular physiology: principles and few examples
15:30 16:00	COFFEE BREAK (Joliot room)	
16:00 17:30	Christoph Gebhardt UMR3215, Institut Curie/CNRS, FR	Activating and silencing neurons with light: Main tools and basic principles

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Tuesday 25/10: Chemical approaches & multi photon microscopy		Chairs: Filippo Del Bene and Sophie Vriz
Amphithéâtre Marie Curie, 11-13 rue Pierre & Marie Curie, 75005 Paris		
09:00 10:30	Georges Debregeas Université P. et M. Curie, Paris, FR	Fast volumetric imaging using light-sheet microscopy: Principles and applications
10:30 11:00	COFFEE BREAK (Joliot room)	
11:00 12:30	Isaac Bianco UCL, London, UK	Analysis of sensorimotor processing using genetically encoded fluorescent calcium sensors
12:30 13:45	LUNCH (Green Café)	
14:00 15:30	Alexandre Mourot UPMC, Paris, FR	Controlling endogenous ion channels with light
15:30 16:00	COFFEE BREAK (Joliot room)	
16:00 18:00	Mario de Bono LMB-MRC, Cambridge, UK	Exploiting optogenetics when you have a connectome

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Wednesday 26/10: Fluorescence as a sensor for cellular physiology		Chairs: Filippo Del Bene and Sophie Vriz
Amphithéâtre Marie Curie, 11-13 rue Pierre & Marie Curie, 75005 Paris		
09:00 10:30	Valentina Emiliani Université R. Descartes, Paris, FR	Optogenetics: What is the optimal illumination methods?
10:30 11:00	COFFEE BREAK (Joliot room)	
11:00 12:30	Jens Duebel Institut de la Vision, Paris, FR	Optogenetic approaches to restore vision
12:30 13:45	LUNCH (Green Café)	
14:00 15:30	Stefano De Renzi EMBL, Heidelberg, DE	Optogenetic approaches to modulate signaling and morphogenesis during Drosophila embryonic development
15:30 16:00	COFFEE BREAK (Joliot room)	
16:00 18:00	Alexander Fleischmann CIRB Collège de France, Paris, FR	From the nose to the brain: Optogenetic dissection of olfactory neural circuits in mice

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Thursday 27/10: Fluorescence as a sensor for cellular physiolog		Chairs: Filippo Del Bene and Sophie Vriz
Amphithéâtre Marie Curie, 11-13 rue Pierre & Marie Curie, 75005 Paris		
09:00 10:30	Simon De Beco Institut Curie, Paris, FR	Optogenetic control of intracellular processes
10:30 11:00	COFFEE BREAK (Joliot room)	
11:00 12:30	Vsevolod Belousov Russian Academy of Sciences, Moscow, RU	Novel molecular tools for redox imaging and metabolic engineering
12:30 13:45	LUNCH (Green Café)	
14:00 15:30	Ludovic Jullien Ecole Normale Supérieure, Paris, FR	Chemical approaches to photo-activation
15:30 16:00	COFFEE BREAK (Joliot room)	
16:00 18:00	Arnaud Gautier Normale Supérieure, Paris, FR	Fluorescent probes for cell imaging: Thinking outside the GFP toolkit

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Friday 28/10: PRACTICAL COURSE (Amphi Marie Curie)		Chairs: Filippo Del Bene and Sophie Vriz
09:00 10:30	Olivier Destaing Institut Albert Bonniot, Grenoble, FR Isabelle Bonnet Institut Curie, Paris, FR	Probing and manipulating spatio-temporal activation of signaling pathways implicated in cell migration and invasion
10:30 11:00	COFFEE BREAK (Joliot room)	
11:00 12:30	Pau Gorostiza ICREA, Barcelona, SP	Control of biological processes with light
12:30 13:45	LUNCH (Green Café)	
14:00 18:30	Exam for students M2 Paris 7	