

## Neurophotonics Summer School 2014

	Tuesday 3	Wednesday 4	Thursday 5	Friday 6	Saturday 7
8:30	<b>Arrival/briefing</b>	<b>Arrival/briefing</b>	<b>Arrival/briefing</b>	<b>Arrival/briefing</b>	<b>Arrival/briefing</b>
9:00-10:30	<b>Daniel Côté</b> Basics of lasers and optical imaging	<b>Paul De Koninck</b> Tracking proteins on the move in neurons	<b>Yves De Koninck</b> Optogenetics: from basic principles to in -vivo applications	<b>Roberto Araya</b> Studying dendritic spine function with two-photon-mediated glutamate uncaging	<b>Damian Haydon Wallace</b> Imaging populations in the awake animal
10:30-11:00	Coffee break	Coffee break	Coffee break	Coffee break	
11:00-12:30	<b>Michael Hausser (videoconference)</b> Optical methods for probing neural function	<b>Mark Reimers</b> Multivariate methods with a view to neurophotonics data	<b>Franck Debarbieux</b> Transforming intravital two-photon microscopy into a preclinical imaging modality	<b>Daniel Côté</b> Multimodal cellular imaging <i>in vivo</i>	<b>Paul Selvin</b> High-Resolution of Neurons with Fluorescent Proteins and Small Quantum Dots
12:30-13:30	LUNCH	LUNCH	LUNCH	LUNCH	LUNCH
13:30-14:30	Experiment preview	Experiment preview	Experiment preview	Experiment preview	Experiment preview
14:30-18 :30	Hands-on Lab experiments	Hands-on Lab experiments	Hands-on Lab experiments	Hands-on Lab experiments	Hands-on Lab experiments
18:30-19:30	Dinner	Dinner	Coherent's Group dinner	Dinner	Dinner
19:30-22:00	Data analysis	Data analysis		Data analysis	Data analysis

	Sunday 8	Monday 9	Tuesday 10	Wednesday 11	Thursday 12
8:30	<b>FREE TIME</b>	<b>Arrival/briefing</b>	<b>Arrival/briefing</b>	<b>Arrival/briefing</b>	<b>Arrival/briefing</b>
9:00-10:30		<b>Valentin Nägerl</b> STED imaging of functional nano-neuroanatomy	<b>Robert Campbell</b> Genetically encoded fluorophores and reporters to illuminate neuronal activity	<b>Richard Robitaille</b> Basics of Ca <sup>2+</sup> imaging in live cells: applications to the study of glial-neuron interactions	<b>Tim Murphy</b> Mouse In Vivo Imaging and Optogenetic Tools for Elucidating Cortical Circuit Structure and Function Following Stroke
10:30-11:00		Coffee break	Coffee break	Coffee break	Coffee break
11:00-12:30		Projects	Projects	Projects	Students presentations
12:30-13:30		LUNCH	LUNCH	LUNCH	LUNCH
13:30-18:30		Projects	Projects	Projects	Students presentations (until 15h30)
18:30-19:30		Dinner	Coherent's Group dinner Observatoire de la Capitale	Dinner	