

## Neurophotonics Summer School 2015

	Monday 1	Tuesday 2	Wednesday 3	Thursday 4	Friday 5
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>Robert Campbell</b> Genetically encoded fluorophores and reporters to illuminate neuronal activity	<b>Kurt Haas</b> Functional imaging from small neuronal networks	<b>Yves De Koninck</b> Optogenetics: from basic principles to in -vivo applications
10:30-11:00	Coffee break	Coffee break	Coffee break	Coffee break	
11:00-12:30	<b>Fan Wang</b> CANE* technology for capturing and manipulating behaviorally activated neuronal ensembles	<b>Daniel Côté</b> Multimodal cellular imaging <i>in vivo</i>	<b>Ed Ruthazer</b> Tools for imaging neuronal morphogenesis and synaptogenesis in vivo	<b>Santiago Costantino</b> Clinical biophotonic applications in ophthalmology	<b>Paul De Koninck</b> Super resolution microscopy
12:30-13:30	LUNCH	LUNCH	LUNCH	LUNCH	LUNCH
13:30-14:30	Experiment preview	Experiment preview	Experiment preview	Experiment preview	Experiment preview
14:30-19:00	Hands-on Lab experiments and demos	Hands-on Lab experiments and demos	Hands-on Lab experiments and demos	Hands-on Lab experiments and demos	Hands-on Lab experiments and demos
19:00-20:00	Dinner	Dinner	Coherent's Group dinner	Dinner	Laserglow's group dinner
20:00-...	Data analysis	Data analysis		Data analysis	

	Saturday 6	Sunday 7	Monday 8	Tuesday 9	Wednesday 10
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>Richard Robitaille</b> Basics of Ca <sup>2+</sup> imaging in live cells: applications to the study of glial-neuron interactions	<b>Ed Boyden</b> Ultraprecise Imaging and Control of Complex Biological Systems	<b>David Kleinfeld</b> Cortical Blood Flow and Resting State fMRI Deconstructed with Optical Imaging	<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
13:30-19:00		Projects	Projects	Projects	Students presentations (until 15h30)
19:00-20:00		Dinner	Coherent's Group dinner	Dinner	