

Neurophotonics Summer School 2013

	Wednesday 29	Thursday 30	Friday 31	Saturday 1 st	Sunday 2
8:30	Arrival/briefing	Arrival/briefing	Arrival/briefing	Arrival/briefing	
9:00-10:30	Daniel Côté Basics of lasers and optical imaging	Ed Ruthazer Tools for imaging neuronal morphogenesis and synaptogenesis in vivo	Denis Boudreau Principles of fluorescence	Kurt Haas Functional imaging from small neuronal networks	Free time
10:30-11:00	Coffee break	Coffee break	Coffee break	Coffee break	
11:00-12:30	Paul De Koninck Tracking proteins on the move in neurons	Richard Robitaille Basics of Ca ²⁺ imaging in live cells: applications to the study of glial-neuron interactions	Robert Campbell Engineering genetically encoded indicators for all-optical neurophysiology	Paul Selvin High-Resolution of Neurons with Fluorescent Proteins and Small Quantum Dots	
12:30-13:30	LUNCH	LUNCH	LUNCH	LUNCH	
13:30-14:30	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	
18:30-19:30	Dinner	Dinner	Coherent's Group dinner	Dinner	
19:30-22:00	Data analysis	Data analysis		Data analysis	

	Monday 3	Tuesday 4	Wednesday 5	Thursday 6	Friday 7
8:30	Arrival/briefing	Arrival/briefing	Arrival/briefing	Arrival/briefing	Arrival/briefing
9:00-10:30	Daniel Côté Multimodal cellular imaging <i>in vivo</i>	Antoine Adamantidis All optical dissection of neuronal substrates of behavior	Richard Kramer Inventing new ways to control neuronal signaling with light	Santiago Costantino Clinical biophotonic applications in ophthalmology	Tim Murphy 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	Coffee break
11:00-12:30		DEMO: stereotaxic injection of virus and fiber optics implants	Projects	Projects	Students presentations
12:30-13:30	LUNCH	LUNCH	LUNCH	LUNCH	LUNCH
13:30-18:30	Experiment preview	Projects	Projects	Projects	Students presentations (until 15h30)
18:30-19:30	Hands-on Lab experiments	Dinner	Coherent's Group dinner	Dinner	
	Dinner				
	Data analysis				