

## Neurophotonics Summer School 2017

	Monday 12	Tuesday 13	Wednesday 14	Thursday 15	Friday 16
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>Jérôme Mertz</b> Basics of microscopy	<b>Santiago Costantino</b> Optical engineering of the cellular microenvironment	<b>Cathie Ventalon</b> Functional fluorescence imaging and spatially selective photoactivation in freely-behaving rodents	<b>Yves De Koninck</b> Optogenetics: from basic principles to in -vivo applications	<b>Paul De Koninck</b> Tracking molecular events in cells
10:30-11:00	Coffee break	Coffee break	Coffee break	Coffee break	
11:00-12:30	<b>Ed Ruthazer</b> Tools for imaging neuronal morphogenesis and synaptogenesis in vivo (tentative date)	<b>Robert Campbell</b> Genetically encoded fluorophores and reporters to illuminate neuronal activity	<b>Kurt Haas</b> Functional imaging from small neuronal networks	<b>Pierre Marquet</b> Quantitative phase-digital holographic microscopy to explore cell structure and dynamics at the nanoscale	<b>Tim Murphy</b> Mouse In Vivo Imaging and Optogenetic Tools for Elucidating Cortical Circuit Structure and Function Following Stroke
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 sponsored dinner (18h00; bus leaves at 17h45) + Laser Tag (19h30)	Dinner	Dinner
20:00-...	Data analysis	Poster session		Data analysis	

	Saturday 17	Sunday 18	Monday 19	Tuesday 20	Wednesday 21
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>Thomas Kuner</b> Nanoarchitecture of the presynaptic active zone: Exploring the limits of localization microscopy	<b>Stéphane Dieudonné</b> Fast functional calcium imaging; pitfalls and challenges	<b>Jean Baptiste Sibarita</b> Pushing the limits of quantitative super-resolution microscopy to decipher the molecular organization and dynamics of synaptic proteins	<b>David Boas</b> Mapping Human Brain Activity with Functional Near Infrared Spectroscopy
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	Cocktail (Doric Lenses) + dinner (co-sponsored by Zeiss and Coherent)	Dinner	