

## Neurophotonic Summer School 2022

	Monday 13	Tuesday 14	Wednesday 15	Thursday 16	Friday 17
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>Pina Colarusso</b> Optical microscopy: essential concepts	<b>Robert Campbell</b> Genetically encoded fluorophores and reporters to illuminate neuronal activity	<b>Mark Schnitzer</b> Imaging large-scale neural coding and voltage dynamics in behaving animals	<b>Yves De Koninck</b> Volumetric imaging	<b>Michelle Digman</b> Lifetime imaging, FRET, TCSPC, phasor approaches
10:30-11:00	Coffee break	Coffee break	Coffee break	Coffee break	Coffee break
11:00-12:30	<b>Flavie Lavoie-Cardinal</b> Principles of fluorescence and optical nanoscopy approaches	<b>Arjun Krishnaswamy</b> Two-photon excitation of channelrhodopsins and circuit mapping	<b>Estibaliz Gómez de Mariscal</b> BioImage analysis: from visual to quantitative biology and the other way around	<b>Paul De Koninck</b> Tracking molecular events in neurons	<b>Yves De Koninck</b> Optogenetics: from basic principles to <i>in vivo</i> applications
12:30-13:30	LUNCH	LUNCH	LUNCH	LUNCH	Plexon Lunch & Learn
13:30-19:00	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	Dinner	Dinner	Dinner
20:00-...	Introduction to digital imaging/Fiji	Poster session	Workshop: Image analysis with DeepImageJ	Sport session	19h: Les Salons d'Edgar (dinner + pool night)

	Saturday 18	Sunday 19	Monday 20	Tuesday 21	Wednesday 22
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>Daniel Côté</b> Multimodal cellular imaging <i>in vivo</i>	<b>Ed Ruthazer</b> Optical investigation of neuron glia interactions <i>in vivo</i>	<b>Anna Devor</b> Physiological underpinning of noninvasive imaging	Students presentations
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	19h : Restaurant La Bûche	Dinner	

\* Welcoming cocktail : Sunday June 12th at 19h00