

Neurophotonics Summer School 2018

	Monday 11	Tuesday 12	Wednesday 13	Thursday 14	Friday 15
8:30	Arrival/briefing	Arrival/briefing	Arrival/briefing	Arrival/briefing	Arrival/briefing
9:00-10:30	Denis Boudreau Principles of fluorescence	Paul De Koninck tracking molecular events in neurons	Yves De Koninck Optogenetics: from basic principles to in -vivo applications	François St-Pierre Hardware and wetware for imaging voltage in neurons	Maria Angela Franceschini Diffuse Light Method Enabling Routine Functional Brain Imaging
10:30-11:00	Coffee break	Coffee break	Coffee break	Coffee break	
11:00-12:30	Daniel Côté Basics of lasers and optical imaging	Robert Campbell Genetically encoded fluorophores and reporters to illuminate neuronal activity	Ed Ruthazer Tools for imaging neuronal morphogenesis and synaptogenesis in vivo	Daniel Côté Multimodal cellular imaging <i>in vivo</i>	Tim Murphy Mouse In Vivo Imaging and Optogenetic Tools for Elucidating Cortical Circuit Structure and Function Following Stroke
12:30-13:30	LUNCH	LUNCH	** BLIQ LUNCH & LEARN**	LUNCH	** ZEISS LUNCH & LEARN**
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	Dinner	Dinner	sponsored dinner: Doric Lenses
20:00-...	Data analysis	Sports session - BBQ	Poster session	Data analysis	Observatoire de la Capitale

	Saturday 16	Sunday 17	Monday 18	Tuesday 19	Wednesday 20
8:30	FREE TIME	Arrival/briefing	Arrival/briefing	Arrival/briefing	Arrival/briefing
9:00-10:30		Stéphane Dieudonné Fast functional calcium imaging; pitfalls and challenges	Anna Devor Microscopic technologies for imaging of neurovascular and neurometabolic brain function	Fan Wang Anesthesia, Sleep, and Pain	Valentina Emiliani Advanced optical methods for multi-scale optical probing and manipulation of neuronal circuits
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	Sponsored dinner	Dinner	