

Frontiers in Neurophotonics 2013

An International Summer School on Advanced Imaging and Photoactivation Techniques

May 28 - June 7, Quebec City | Canada

Frontiers in Neurophotonics combines tutorials given by experts in photonics and neuroscience and hands-on experiments involving advanced optical approaches to measure, manipulate and follow molecular events in living neuronal cells.

Topics to be covered include:

- Tracking cell migration and maturation in live brain slices
- Video-rate multimodal imaging in vivo
- Coherent Anti-stokes Raman Scattering microscopy
- Imaging protein trafficking in and out of synapses
- Single molecule imaging
- Fluorescence lifetime approaches
- Photoactivation techniques
- Two-photon calcium imaging in axons and dendrites
- Random-access two-photon microscopy
- Super-resolution imaging
- In-vivo optogenetics



Speakers

- Antoine Adamantidis
(McGill Univ., Montreal, Canada)
- Denis Boudreau
(Laval Univ., Québec, Canada)
- Robert Campbell
(Univ. of Alberta, Canada)
- Santiago Costantino
(Univ. of Montreal, Canada)
- Daniel Côté
(Laval Univ., Québec, Canada)
- Kurt Haas
(Univ. British Columbia, Vancouver, Canada)
- Richard Kramer
(Univ. of California in Berkeley, USA)
- Tim Murphy
(Univ. of British Columbia, Vancouver, Canada)
- Richard Robitaille
(Univ. of Montreal, Canada)
- Ed Ruthazer
(McGill Univ., Montreal, Canada)
- Paul Selvin
(Univ. of Illinois at Urbana-Champaign, USA)

For more information visit www.neurophotonics.ca

