

Frontiers in Neurophotonics 2014

An International Summer School on Advanced Imaging and Photoactivation Techniques

June 2 - 12, 2014 | Quebec city | Canada

8th Edition

The **Frontiers in Neurophotonics Summer School** 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 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 various neuronal compartments
- Single membrane receptor tracking
- Fluorescence lifetime approaches
- Photobleaching and photoactivation techniques
- Two-photon calcium imaging in axons and dendrites
- Mapping synaptic connections between neurons
- Super-resolution imaging
- Optical microprobe applications in vivo

Speakers

Roberto Araya

Université de Montréal, Canada

Robert Campbell

University of Alberta, Canada

Daniel Côté

Université Laval, Québec, Canada

Franck Debarbieux

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<http://neurophotonics.ca/school>

