10th edition

Frontiers in Neurophotonics 2016

June 12 - 22 2016 | Québec City | Canada

An international Summer school on advanced optical imaging and photoactivation techniques

More at https://neurophotonics.ca/school

The 2016 Frontiers in Neurophotonics Summer School is the 10th Edition of a unique and much appreciated neurophotonics course. This ten day training 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 neurons.

Topics covered will 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

https://neurophotonics.ca/school

2016 Speakers

- Robert Campbell | U Alberta | Canada
- Daniel Côté | U Laval | Canada
- Paul De Koninck | U Laval | Canada
- Yves De Koninck | U Laval | Canada
- Stéphane Dieudonné | École Normale Supérieure, Paris, France
- Pierre Marquet |U Laval | Canada
- Tim Murphy | U of British Columbia | Canada
- Ed Ruthazer | McGill U | Canada

...and more to come

2015 Frontiers in Neurophotonics Summer School Group

Neurophotonics Centre | Université Laval | Institut universitaire en santé mentale de Québec | McGill | NSERC CRSNG | COPL Centre d'optique, photonique et laser | CIHR IRSC Canadian Institutes of Health Research / Instituts de recherche en santé du Canada