

10th edition

# Frontiers in Neurophotonics 2016

June 12 - 22 2016 | Québec City | Canada

An international Summer school on advanced optical imaging and photoactivation techniques

The 10th Edition of the Frontiers in Neurophotonics Summer School will combine 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.

## Speakers

Haruhiko Bito  
U of Tokyo, Japan

Robert Campbell  
U Alberta | Canada

Santiago Costantino  
U Montréal | 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

Kurt Haas  
U British Columbia | Canada

Elizabeth Hillman  
Columbia U | NY, USA

Sheena Josselyn  
SickKids Hospital | Canada

Pierre Marquet  
U Laval | Canada

Tim Murphy  
U of British Columbia | Canada

Nicolas Renier  
Rockefeller U | NY, USA

Ed Ruthazer  
McGill U | Canada

## Topics

- 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

More at

<https://neurophotonics.ca/school>

