

12th edition

# Frontiers in Neurophotonics Summer School

June 10 - 20 2018  
Québec City, Canada

*An international summer school on advanced optical imaging and photoactivation techniques.*

The 12th 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

Denis Boudreau | Université Laval, Canada  
Robert Campbell | University of Alberta, Canada  
Daniel Côté | Université Laval, Canada  
Paul De Koninck | Université Laval, Canada  
Yves De Koninck | Université Laval, Canada  
Anna Devor | University of California in San Diego, USA  
Stéphane Dieudonné | École Normale Supérieure, France  
Valentina Emiliani | Paris-Descartes, France  
Maria Angela Franceschini | MGH Harvard, USA  
Tim Murphy | University of British Columbia, Canada  
François St-Pierre | Baylor College of Medicine, USA  
Ed Ruthazer | McGill University, Canada  
Fan Wang | Duke University, USA

## Topics

Energy consumption and organelles dynamics during neuronal development  
Video-rate multimodal imaging in vivo  
Coherent Anti-stokes Raman Scattering microscopy  
Imaging protein trafficking in various neuronal compartments  
Tracking single receptors on membrane  
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



Frontiers in Neurophotonics Summer School - Class of 2017

<https://neurophotonics.ca/school>

