

11th edition

# Frontiers in Neurophotonics 2017

June 11 - 21 2017 | Québec City | Canada

An international Summer school on advanced optical imaging and photoactivation techniques

<https://neurophotonics.ca/school>

The 11th 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

David Boas  
Boston U | USA

Santiago Costantino  
U de Montréal | Canada

Paul De Koninck  
U Laval | Canada

Yves De Koninck  
U Laval | Canada

Stéphane Dieudonné  
École Normale Supérieure | France

Kurt Haas  
U British Columbia | Canada

Thomas Kuner  
U of Heidelberg | Germany

Pierre Marquet  
U Laval | Canada

Jérôme Mertz  
Boston U | USA

Tim Murphy  
U of British Columbia | Canada

Ed Ruthazer  
McGill U | Canada

Jean-Baptiste Sibarita  
U de Bordeaux | France

Cathie Ventalon  
Inst. des neurosciences Paris | France

## 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

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

