Frontiers in Neurophotonics 2015

An international Summer school on advanced optical imaging and photoactivation techniques

May 31 - June 10 2015 | Québec City | Canada

9th edition

More at http://neurophotonics.ca/school

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 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

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2015 Speakers

Daniel Côté | U Laval, Canada
Ed Boyden | MIT, USA
Ed Ruthazer | McGill U, Canada
David Kleinfeld | UC San Diego
Fan Wang | Duke U, USA
Kurt Haas | UBC, Canada
Paul De Koninck | U Laval, Canada
Richard Robitaille | U de Montréal, Canada
Robert Campbell | U of Alberta, Canada
Santiago Costantino | U de Montréal, Canada
Tim Murphy | UBC, Canada
Yves De Koninck | Université Laval

2014 Summer school group

UNIVERSITÉ LAVAL
CIHR IRSC Canadian Institutes of Health Research / Instituts de recherche en santé du Canada
Institut universitaire en santé mentale de Québec
NeuroPhysics
Laserglow Technologies
OLYMPUS
McGill
NSERC CRSNG
COPL Centre d'optique, photonique et laser
Neurophotonics Centre
COHERENT
ZEISS