



Montreal Light Microscopy Course – MLMC 2014

Monday, July 14, 2014
Imaging Biology in Action

Rm N2/2, 2nd Floor Stewart Biology Building

Chair: Paul Maddox

8:00- 9:00	Registration
8:45- 9:00	Welcome and Course Introduction
9:00- 9:30	Biological Imaging at a Glance Kevin Eliceiri , University of Wisconsin
9:30-10:30	PLENARY LECTURE: Rapid Imaging of Cardiac Cells and Tissues Gil Bub , Cardiovascular Science, Oxford University
10:30-11:00	Coffee Break
11:00-11:30	Live Cell Imaging – Tips and Tools Claire Brown , Advanced BioImaging Facility (ABIF), McGill University
11:30-12:00	Imaging Living Organisms – Practical Guidelines Paul Maddox , Biology Department, University of North Carolina
12:00-12:30	Particle Tracking from Molecules to Cells Pina Colarusso , Live Cell Imaging Core, University of Calgary
12:30-14:00	Lunch Break
12:45-13:15	Lunch-N-Learn Chroma Technology Corporation
14:00-16:00	Laboratory Activities
17:00-19:00	Opening Mixer – All Welcome Café République, 1200 Peel Street



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Tuesday, July 15, 2014

Visualizing Molecular Interactions

Rm N2/2, 2nd Floor Stewart Biology Building

Chair: Thomas Stroh

8:00- 9:00	Registration
8:30- 9:00	Review and Discussion of Day 1 Laboratory Activities
9:00- 9:30	Introduction to Nanoscopy Thomas Stroh , Montreal Neurological Institute (MNI), McGill University
9:30-10:15	PLENARY LECTURE: From Microscopy to Nanoscopy with Conical Diffraction: Be careful what you wish for then think outside the box... Spencer Shorte , Imagopole, Institut Pasteur
10:15-10:45	Structured illumination microscopy (SIM) Paul Goodwin , GE Healthcare
10:45-11:15	Coffee Break
11:15-11:45	Sample Preparation for Nanoscopy: Tips and Tricks Maria Ioannou , Montreal Neurological Institute
11:45-12:30	Using single molecule localization and dynamics to understand cellular function Cathy Galbraith , Oregon Health Sciences University
12:30-14:00	Lunch Break
12:45-13:15	Lunch-N-Learn Bioaxial
14:00-18:00	Laboratory Activities



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Wednesday, July 16, 2014

In Vivo Imaging

Rm N2/2, 2nd Floor Stewart Biology Building

Chair: Pina Colarusso

8:00- 9:00	Registration
8:30- 9:00	Review and Discussion of Day 2 Laboratory Activities
9:00-10:00	PLENARY LECTURE: Multi-dimensional Cellular Imaging from in vitro 3D to intra-vital animal models Kevin Eliceiri , University of Wisconsin
10:00-10:30	Case Study – Imaging Vascular Immunity Katarzyna Stevens , Live Cell Imaging Core, University of Calgary
10:30-11:00	Coffee Break
11:00-12:00	Intra-Vital Microscopy – What is it all about? Jeff Mewburn , Cancer Research Institute, Queen’s University
12:00-12:30	Open Discussion of In Vivo Imaging
12:30-14:00	Lunch Break

12:45-13:15	Lunch-N-Learn Minitube Canada (IBIDI)
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14:00-18:00	Laboratory Activities
19:00-20:00	KEYNOTE LECTURE: Microscopic Dissection of Tumor Invasion and Metastasis using Biophotonics John Condeelis , Albert Einstein College of Medicine, NY
20:00-22:00	Wine and Cheese Reception



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Thursday, July 17, 2014

Measuring Dynamics & Interactions #1

Rm N2/2, 2nd Floor Stewart Biology Building

Chair: Claire Brown

8:00- 9:00	Registration
8:30- 9:00	Review and Discussion of Day 3 Laboratory Activities
9:00- 9:45	Förster (Fluorescence) Resonance Energy Transfer (FRET) Microscopy Claire Brown , Advanced BioImaging Facility (ABIF), McGill University
9:45-10:30	PLENARY LECTURE: To FRET or not to FRET...why not FLIM-FRET? Étienne Gagnon , Microbiology & Immunology, Université de Montréal
10:30-11:00	Coffee Break
11:00-11:30	Live Cell Metabolic mapping with FLIM Kevin Eliceiri , University of Wisconsin
11:30-12:30	PLENARY LECTURE: Image Correlation Microscopy (ICM): Measuring Sub-resolution Dynamics and Interactions Michelle Digman , University of California, Irvine
12:30-14:00	Lunch Break
12:45-13:15	Lunch-N-Learn Nüvü Caméras Inc.
14:00-18:00	Laboratory Activities



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Friday, July 18, 2014

Measuring Dynamics & Interactions #2

Rm N2/2, 2nd Floor Stewart Biology Building

Chair: Lisa Cameron

8:00- 9:00	Registration
8:30- 9:00	Review and Discussion of Day 4 Laboratory Activities
9:00- 9:45	Measuring dynamic protein interactions in 2D and 3D Michelle Digman , University of California, Irvine
9:45-10:30	Measuring Chromosome Structural Dynamics with Light Microscopy Paul Maddox , Biology Department, University of North Carolina
10:30-11:00	Coffee Break
11:00-12:00	PLENARY LECTURE: Methods for Ultra-fast 3D Volumetric Microscopy <i>In-Vivo</i> Elizabeth Hillman , Columbia University
12:00-12:30	Interactive Case Scenarios
12:30-14:00	Lunch Break
12:45-13:15	Lunch-N-Learn Coherent Inc.
14:00-18:00	Laboratory Activities
18:00-21:00	Closing Dinner Caverne Grecque, 105 Prince Arthur East