
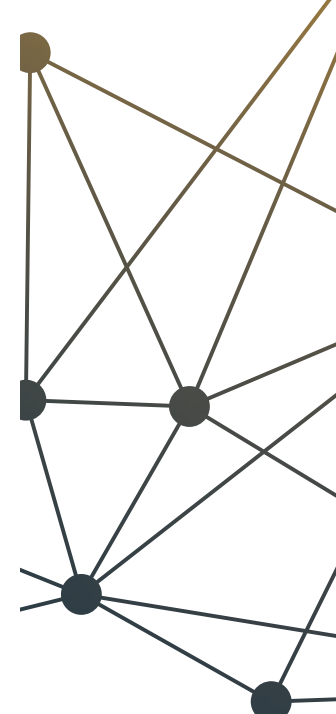


Monday, June 12, 2023

IGT SYMPOSIUM

AGENDA

McLaughlin Auditorium, EG-18a
Sunnybrook Health Sciences Centre

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- 8:00 - 8:50 **Registration & morning refreshments**
 - 8:50 - 9:00 **Welcoming & opening remarks**
Speaker: Dr. Meaghan O'Reilly
 - 9:00 - 10:30 **Session 1: Breakthroughs in image-guided therapy**
Moderator: Dr. Meaghan O'Reilly
 - 10:30 - 10:40 **Discussion**
 - 10:40 - 11:00 **Coffee break**
 - 11:00 - 12:30 **Session 2: Advances in applied clinical research**
Moderator: Dr. Ali Tavallaei
 - 12:30 - 12:40 **Discussion**
 - 12:40 - 13:00 **Lunch & networking**
 - 13:00 - 14:00 **Poster exhibit**
 - 14:00 - 15:30 **Session 3: Big data and artificial intelligence**
Moderator: Dr. Michael Hardisty
 - 15:30 - 15:40 **Discussion**
 - 15:40 - 16:00 **Awards & closing remarks**
Speaker: Dr. Meaghan O'Reilly

Sponsors & Partners



IGT SYMPOSIUM SPEAKERS

Session 1: Breakthroughs in image-guided therapy

9:00 - 9:30

Neuroimaging markers and neuromodulation strategies of drug addiction

Dr. Yihong Yang

Senior Investigator of NIH, USA
Chief of Neuroimaging Research Branch National Institute on Drug Abuse, NIH, USA

9:30 - 10:00

IGT for cardiac arrhythmia management

Dr. Graham Wright

Senior Scientist, Physical Sciences, Sunnybrook Research Institute, Canada Research Chair, Imaging for Cardiovascular Therapeutics, Tier 1

10:00 - 10:10

Design of a radio-ultrasound-guided system for breast cancer surgery

Sydney Wilson

PhD Student, Biomedical Engineering, Western University

10:10 - 10:20

A novel forward-looking ultrasound catheter for image-guided cardiovascular interventions

Alykhan Sewani

Graduate, Biomedical Engineering, Toronto Metropolitan University

10:20 - 10:30

Ultrasound mediated nucleic acid delivery to the heart for the treatment of hypertrophy

Dr. Brandon Helfield

Assistant Professor, Department of Biology and Department of Physics, Concordia University

Session 2: Advances in applied clinical research

11:00 - 11:30

Histotripsy liver cancer treatment: the road from bench to bedside

Dr. Zhen Xu

Professor, Biomedical Engineering, University of Michigan, VP of Ultrasonics, IEEE UFFC Fellow of AIMBE

11:30 - 12:00

Sub-millimeter imaging platform empowered by flat optics for minimally invasive procedures

Dr. Reza Khorasaninejad

CEO & Founder at LEADOPTIK

12:00 - 12:10

Opportunistic screening of low bone mineral density from standard x-rays

Dr. Catriona Syme

Head of Research & Quality, 16Bit

12:10 - 12:20

BabelBrain: An open-source tool for GPU-accelerated treatment planning of neuromodulation procedures with focused ultrasound

Dr. Samuel Pichardo

Associate Professor, Radiology and Clinical Neurosciences, Hotchkiss Brain Institute, Cumming School of Medicine, University of Calgary

12:20 - 12:30

First in-human phase II trial: Intra-cavity imaging of 5-aminolevulinic acid induced fluorescence to detect subclinical breast cancer intraoperatively

Dr. Ralph DaCosta

Senior Scientist, Princesses Margaret Cancer Centre

Session 3: Big data and artificial intelligence

14:00 - 14:30

Photoacoustic image formation and surgical guidance with machine learning

Dr. Muyinatu Bell

John C. Malone Associate Professor & PULSE Lab Director, Johns Hopkins University, Department of Electrical and Computer Engineering, Department of Computer Science

14:30 - 15:00

Using AI to augment neuroradiology workflows

Dr. April Khademi

Associate Professor, Biomedical, Electrical and Computer Engineering, TMU, Principal Investigator, Image Analysis in the Medicine Lab, Affiliated Scientist, St. Michael's Hospital & iBEST

15:00 - 15:10

Real-time tumor segmentation for margin visualization in breast-conserving surgical navigation

Chris Yeung

PhD Student, School of Computing, Queen's University

15:10 - 15:20

Image guidance for cranial implant design: A cascading U-Net based system with pre-processing and learned implant filtering

James Mainprize

Research Associate, Physical Sciences, Sunnybrook Research Institute, Co-Founder, Calavera Surgical Design

15:20 - 15:30

Clinical-inspired cytological whole slide image screening with just slide-level labels

Dr. Xiaoxiao Li

Assistant Professor, Department of Electrical and Computer Engineering, UBC

Beidi Chen

MSc Student, Department of Electrical and Computer Engineering, UBC