

ImNO 2024 Symposium Program at a Glance

Tuesday, March 19, 2024	
Graydon Hall ABC	Greenwich Room
07:30 - 08:30 Siemens Breakfast Symposium	
08:30 - 08:45 Opening Remarks	
08:45 - 09:30 Keynote I AI for Medical Image Analysis: Living with Limited Data Anne Martel, University of Toronto	
09:30 - 09:45 Coffee Break	
09:45 - 10:45 Session 1 Talks Deep/Machine Learning 1	Session 2 Talks MRI 1
10:45 - 11:20 Session 3 Pitches Deep Learning	Session 4 Pitches MRI
11:20 - 12:15 Poster Viewing (Pitch Sessions 3 & 4 presenting)	
12:15 - 12:30 Lunch Pickup	
12:30 - 13:30 Debate: The Role of AI in Medicine	
13:30 - 13:45 Break	
13:45 - 14:45 Session 5 Talks Device, Hardware, Software Development	Session 6 Talks Cancer
14:45 - 15:20 Session 7 Pitches Device, Hardware, Software Development	Session 8 Pitches Cancer
15:20 - 16:15 Poster Viewing (Pitch Sessions 7 & 8 presenting)	
16:15 - 17:15 Session 9 Talks Image-Guided Intervention	Session 10 Talks Neuroimaging 1
17:15 - 19:15 Reception/Social Event	

Wednesday, March 20, 2024	
Graydon Hall ABC	Greenwich Room
08:30 - 08:45 Opening Remarks	
08:45 - 09:45 Session 11 Talks Cardiac and Lung	Session 12 Talks Neuroimaging 2
09:45 - 10:20 Session 13 Pitches Cardiac, Lung, Image Processing	Session 14 Pitches Neuroimaging
10:20 - 11:15 Poster Viewing (Pitch Sessions 13 & 14 presenting)	
11:15 - 12:15 Session 15 Talks Deep/Machine Learning 2	Session 16 Talks MRI 2
12:15 - 12:30 Lunch Pickup	
12:30 - 13:30 Panel: Commercialization of AI-enabled Medical Imaging Technology	
13:30 - 13:45 Break	
13:45 - 14:45 Session 17 Talks Cellular and Molecular	Session 18 Talks Ultrasound and Photoacoustic
14:45 - 15:20 Session 19 Pitches Cellular and Molecular	Session 20 Pitches Ultrasound and Optical
15:20 - 16:15 Poster Viewing (Pitch Sessions 19 & 20 presenting)	
16:15 - 17:00 Keynote II Clinical Deployment of Raman Spectroscopy: Applications in Neurosurgery and Beyond Frédéric Leblond, École Polytechnique de Montréal	
17:00 - 17:30 Closing and Awards	

ImNO 2024 Program - Tentative

Tuesday, March 19, 2024

07:30 - 08:30	Siemens Breakfast Symposium	Greenwich Room
08:30 - 08:45	Opening Remarks Michael Daly and Elodie Lugez	Graydon Hall ABC
08:45 - 09:30	Keynote Session I AI for Medical Image Analysis: Living with Limited Data Anne Martel, University of Toronto	Graydon Hall ABC
09:30 - 09:45	Coffee Break	
09:45 - 10:45	Session 01 Talks Deep/Machine Learning 1 Graydon Hall ABC	Session 02 Talks MRI 1 Greenwich Room
	1-1: Video-Based Phase Recognition in Cataract Surgery Joshua Bierbrier, Queen's University	2-1: Agarose-Carrageenan Hydrogel MRI Phantom Shelf-Stability Sandra Alexander, Toronto Metropolitan University
	1-2: Innovative Solutions for Tissue Safety: Miniaturized Optical Sensors, Single-Pixel Imaging, and Machine Learning for Neurosurgical Retractors Lee Sikstrom, Western University	2-2: Effect of Stress and CDSL Levels on Mouse Brain Metabolites Using Magnetic Resonance Spectroscopy Colleen Bailey, Sunnybrook Research Institute
	1-3: Early Findings for Scribble-Based Weakly Supervised Segmentation of Neonatal Cerebral Ventricles from 3D Ultrasound Images Zachary Szentimrey, University of Guelph	2-3: An Entirely Noninvasive Restraint for Multi-Modal Functional Magnetic Resonance Imaging in Awake Mice Sam Laxer, Western University
	1-4: AI-Assisted Annotation of Surgical Tool Locations; Is It Worth It? Denesh Peramakumar, Queen's University	2-4: Data Compression for Compact Representation of Spatial Magnetic Field Variations Using Field Monitoring Paul Dubovan, Western University
10:45 - 11:20	Session 03 Pitches Deep Learning Graydon Hall ABC	Session 04 Pitches MRI Greenwich Room
	3-1: Combining Diffuse Optical Tomography and Photoacoustic Imaging with Deep Learning Ben Motz, University Health Network	4-1: Towards the Suppression of Lipid Contamination in Whole Brain Slice Magnetic Resonance Spectroscopic Imaging Using Two-Dimensional Selective Excitation Jason Rock, Sunnybrook Research Institute
	3-2: Joint Medical Image Super-Resolution and Modality Translation via GAN Transformer-Based Model Melika Abdollahi, Ontario Tech University	4-2: A Single Breath Hold MT Pulse Sequence for Whole-Uterus Imaging Siddharth Sadanand, Toronto Metropolitan University
	3-3: Radiomics Machine Learning and Deep Learning Ensemble for COPD Classification Using CT Images Kalysta Makimoto, Toronto Metropolitan University	4-3: Robust Diffusional Kurtosis Computation Using Oscillating Gradient Encoding Jake Hamilton, Western University
	3-4: Vertebral Detection and Labelling Using Deep Learning for Spine MRI Registration Jonathan Chu, University of Waterloo	4-4: Echo-Time Dependence of Microscopic Fractional Anisotropy Using Single-Shot Spiral Encoding Farah Mushtaha, Robarts Research
	3-5: Deep Learning for Automated Detection of Caenorhabditis Elegans in Hydrogel Teo Mesrkhani, Toronto Metropolitan University	4-5: Minimization of Lipid Signal Contamination for Rapid MR Spectroscopic Imaging of the Brain Lubna Burki, University of Toronto
	3-6: A Deep Learning Approach to Markerless Tumour Motion Forecasting Based on Optical Surface Imaging and Volumetric 4D-CT Timothy Yau, Western University	4-6: Considering External Calibrant Signal Distributions When Quantifying ²³ Na-MRI Maps Cameron Nowikow, McMaster University
	3-7: 3D U-Net Segmentation of the Visceral Cavity of a MicroCT-Imaged Rat Joseph Umoh, Robarts Research Institute, Western University	4-7: Pseudo-CT Image Generation from Magnetic Resonance Imaging (MRI) Using Generative Adversarial Networks (GANs) for Radiation Therapy Planning Nicola Billings, University of Guelph
	3-8: Using Deep Learning and a Feature Extraction Pipeline to Quickly Localize Catheter Tips in Prostate Brachytherapy Ultrasound Images Jessica de Kort, The University of Winnipeg and University of Manitoba	4-8: High-Resolution Magic-Angle Spinning (HR-MAS) NMR Spectroscopy in Cerebral Organoids Alejandra Castilla Bolanos, University of Toronto and Sunnybrook Research Institute
	3-9: Verifying the Classification Accuracy of a Machine Learning Core in an IMU Sensor Kyle Wilson, Western University	4-9: Pulse Sequence Optimization for Highly Accelerated Low Field MRI: X-Centric and Sectoral Samuel Perron, Western University
	3-10: Validation Dataset Construction for Laparoscopic Image De-Smoking Victoria Fan, Robarts Research Institute	
	3-11: Moving Beyond Laparoscopy: Assessing the True Capabilities of Popular Surgical Phase Recognition Methods in Diverse Settings Rebecca Hisey, Queen's University	
11:20 - 12:15	Poster Viewing (Pitch Sessions 3 & 4 presenting)	Graydon Hall Foyer

12:15 - 12:30	Lunch Pickup	
12:30 - 13:30	Debate: The Role of AI in Medicine	Greenwich Room
13:30 - 13:45	Break	
13:45 - 14:45	<p style="text-align: center;">Session 05 Talks Device, Hardware, Software Development Graydon Hall ABC</p> <hr/> <p>5-1: Development of a Photothermal Therapy Guidance Platform Using Photoacoustic Thermometry with Dynamic Diffuse Optical Tomography Temperature Calibration Ivan Kosik, University Health Network</p> <hr/> <p>5-2: MRI Motion Phantom of the Pregnant Human Abdomen Alexander Dunn, Toronto Metropolitan University</p> <hr/> <p>5-3: Characterization of Picosecond Infrared Laser Ablation for Peripheral Artery Disease Revascularization Mahdi Tahmasebi, Toronto Metropolitan University</p> <hr/> <p>5-4: Exploring Heart Rate Variability Metrics for Stress Assessment in Robot-Assisted Surgery Training Elizabeth Klosa, Queen's University</p>	<p style="text-align: center;">Session 06 Talks Cancer Greenwich Room</p> <hr/> <p>6-1: Cisplatin Prodrug-Loaded Microbubbles for Targeted Cancer Therapy Sean McGrath, University of Toronto</p> <hr/> <p>6-2: First Demonstration of Arterial Spin Labeling on a 1.5T MR-Linac for Glioblastoma Perfusion Dynamics Liam Lawrence, University of Toronto</p> <hr/> <p>6-3: Comparison of the Localisation of Phototheranostic PORPHYSOME Nanoparticles in Rodent and Nonrodent Models of Prostate Cancer Michael Valic, Princess Margaret Cancer Centre, University Health Network</p> <hr/> <p>6-4: Analyzing the Effect of Neoadjuvant Stereotactic Ablative Radiotherapy (SABR) on Pancreatic Tumour Perfusion Using Computed Tomography Perfusion (CTP) Jin-Young Bang, London Regional Cancer Program</p>
14:45 - 15:20	<p style="text-align: center;">Session 07 Pitches Device, Hardware, Software Development Graydon Hall ABC</p> <hr/> <p>7-1: Deep Learning-Enabled 3D Fluorescence Imaging for Surgical Guidance: Identifying Tumor Margins Natalie Won, Princess Margaret Cancer Centre</p> <hr/> <p>7-2: SlicerTrack: An Open-Source Extension to 3D Slicer for Target Displacement Visualization HaPhan Tran, Toronto Metropolitan University</p> <hr/> <p>7-3: Development of An Internal Mammary Artery Phantom for Training in Harvesting Procedures Olivia Qi, Western University</p> <hr/> <p>7-4: 3D Printing Prosthetics on the Thailand-Myanmar Border Olivia Radcliffe, Queen's University</p> <hr/> <p>7-5: Machine Learning-Enhanced Mass Spectrometry Imaging for Perioperative Tissue Characterization Jade Warren, Queen's University</p> <hr/> <p>7-6: Low-Cost X-Ray Exposure Meter for Low-Resource Settings Joseph Umoh, Western University</p> <hr/> <p>7-7: Modifying Radix Lenses to Survive Low-Cost Sterilization: An Exploratory Study Emese Elkind, Queen's University</p> <hr/> <p>7-8: Advancing Medical Imaging on the Web: Integrating High Throughput JPEG 2000 (HTJ2K) in Cornerstone3D for Streamlined Progressive Loading and Visualization Bill Wallace, Open Health Imaging Foundation</p> <hr/> <p>7-9: Advancing Medical Imaging on the Web: Implementation of Hanging Protocols for Automated Image Display Configuration in OHIF V3 Alireza Sedghi, Open Health Imaging Foundation</p> <hr/> <p>7-10: Advancing Medical Imaging on the Web: Optimizing the Dicomweb Server Architecture with Static Dicomweb Bill Wallace, Open Health Imaging Foundation</p> <hr/> <p>7-11: Convolutional Neural Networks for Localization of Radioactive Sources with a Hand-Held Gamma Probe Sydney Wilson, Western University</p>	<p style="text-align: center;">Session 08 Pitches Cancer Greenwich Room</p> <hr/> <p>8-1: Polarization Speckle Allows for Snapshot in Vivo Skin Lesion Roughness Measurement Daniel Louie, University Health Network</p> <hr/> <p>8-2: Micro-Ultrasound Photoacoustic Imaging of Prostate Cancer: Evaluation in a Pre-Clinical Model Nidhi Singh, University of Toronto</p> <hr/> <p>8-3: Test Time Training for Prostate Cancer Detection: Addressing Distribution Shift with Self-Supervised Learning Mahdi Gilany, Queen's University</p> <hr/> <p>8-4: An Automatically Tracked System for Cervical Brachytherapy 3D Ultrasound Imaging Tiana Trumpour, Western University</p> <hr/> <p>8-5: Improving Model Adaptability: a Domain Knowledge-Integrated Deep Learning Approach for Ultrasound Image Segmentation and Classification Bining Long, Carleton University</p> <hr/> <p>8-6: Quantification of the Tumor Microvascular Response to Stereotactic Body Radiation Therapy Using Optical Coherence Tomography Angiography and Dynamic Contrast Enhanced MRI Jeffrey Zabel, University of Toronto</p> <hr/> <p>8-7: Automatic Segmentation of Metastatic Brain Tumours Using Magnetization Transfer Contrast Céline Dubroy-McArdle, Toronto Metropolitan University</p> <hr/> <p>8-8: Dilated Convolutional Transformer-Based Segmentation for Primary and Secondary Liver Cancers Tumour: a Comparative Study Ramtin Mojtahedi, Queen's University</p> <hr/> <p>8-9: Multi-Modal Imaging of Personalized Ovoids for Gynecological Brachytherapy Treatments Alissa van Gaalen, Western University</p> <hr/> <p>8-10: Polarized Light Microscopy for Quantitative Assessment of Colorectal Cancer: Can We Predict Local Recurrence? Kseniia Tumanova, University of Toronto</p>
15:20 - 16:15	Poster Viewing (Pitch Sessions 7 & 8 presenting)	Graydon Hall Foyer

16:15 - 17:15

Session 09
Talks
Image-Guided Intervention
Graydon Hall ABC

9-1: Percutaneous Nephrostomy Needle Guidance Using Real-Time 3D Anatomical Visualization with Live Ultrasound Segmentation
Andrew Kim, Queen's University

9-2: 3D-Printed Liver Tumour Flow Model for Simulating Embolization Procedures
David Ng, Robarts Research Institute

9-3: Feasibility Study of Using YOLOv8 for Cataract Surgical Tool Detection in Surgical Microscope Video
Jianming Yang, Queen's University, the Perk Lab

9-4: Photoacoustic Detection of Residual Cancer in Breast-Conserving Surgery
Laura Connolly, Queen's University

17:15 - 19:15

Reception/Social Event

Session 10
Talks
Neuroimaging 1
Greenwich Room

10-1: Resting State Functional Brain Activity Differs By Sex in Pediatric Concussion
Bhanu Sharma, McMaster University

10-2: An fMRI-Informed Transcranial Magnetic Stimulation Protocol Improved Memory Performance
Hsin-Ju Lee, Sunnybrook Research Institute

10-3: Investigating Cortical GABA+ and Glx Levels in Individuals with Social Anxiety Disorder (SAD) Using Proton Magnetic Resonance Spectroscopy
Sonja Elsaid, University of Toronto and Centre for Addiction and Mental Health

10-4: Microstructural MRI Evolution During Adult Mouse Brain Maturation
Naila Rahman, Western University

Graydon Hall D

08:30 - 08:45	Opening Remarks		Graydon Hall ABC
	Michael Daly and Elodie Lugez		
08:45 - 09:45	Session 11 Talks Cardiac and Lung Graydon Hall ABC	Session 12 Talks Neuroimaging 2 Greenwich Room	
	11-1: Novel 4D Flow MRI Technique Without Contrast Agents for Pediatric Congenital Heart Disease Valérie Béland, University of Toronto	12-1: Investigating Brain Gaba and Glutamate+Glutamine Levels in Chronic Pain Patients with and Without Opioid Use Disorder: a Magnetic Resonance Spectroscopy Study Sheldon Bereznick, Centre for Addiction and Mental Health	
	11-2: Automated Diaphragm Dome Segmentation and Height Analysis for Chest CT Images in COPD Daniel Genkin, Toronto Metropolitan University	12-2: Towards Brain Blood Metabolite Measurement Using MRS with Pseudo-Continuous Arterial Spin Labeling Peter Truong, Sunnybrook Research Institute	
	11-3: Physical Replication and Validation of Mathematical Mitral Valve Models Patrick Carnahan, Robarts Research Institute	12-3: Regional Brain Abnormalities in Resting State Functional MRI Persist Past Symptom Resolution: Preliminary Findings Ethan Danielli, University Health Network	
	11-4: Multi-Slice Hyperpolarized 129Xe Fractional Ventilation Mapping in Pediatric Cystic Fibrosis Faiyza Alam, Hospital for Sick Children	12-4: Hippocampal Subfield-Specific Volume and Diffusion Changes in Treatment Resistant Depression Mahdiah Varvani Farahani, Western University	
09:45 - 10:20	Session 13 Pitches Cardiac, Lung, Image Processing Graydon Hall ABC	Session 14 Pitches Neuroimaging Greenwich Room	
	13-1: Comparing Visual Search Strategies: Pathologists' Adaptability to Non-Medical Contexts Alana Lopes, Western University	14-1: Assessing the Sensitivity of Cerebral Blood Flow and Oxygenation to High-Intracranial Pressure Using Combined Optical Spectroscopy Techniques Sule Karagulleoglu-Kunduraci, Western University	
	13-2: CNR Degradation in Dual-Energy Thoracic Imaging with Photon-Counting Detectors Jeffrey Dhari, Toronto Metropolitan University	14-2: Exploring the Effects of Phospholipase A2 Inhibition on Brain Metabolism and Pathology in a Rat Model of Alzheimer's Disease Emily Hiles, University of Toronto	
	13-3: System Specifications for Success of a Novel Synthetic Mask Energy Subtraction Technique Lisa Garland, Robarts Research Institute	14-3: Cerebral Blood Flow During Selective Brain Cooling in Cerebral Ischemia Olivia Tong, Western University	
	13-4: SegFormer for Precise Quantification of Lung Ventilation Defects in Hyperpolarized Gas Lung MRI Samuel Perron, Western University	14-4: Longitudinal Changes in White Matter Diffusivity in First Episode Psychosis Patients Peter Van Dyken, Schulich School of Medicine and Dentistry	
	13-5: Fractional Ventilation Mapping Using Multiple Breath Washout MRI in the Rat Lung: Comparison of Hyperpolarized 129Xe and Perfluoropropane Gases Shaelyn Horvath, University of Toronto	14-5: Neural Biomarkers of Schizophrenia and Autism Spectrum Disorders During the Empathic Accuracy Task Ju-Chi Yu, Centre for Addiction and Mental Health	
	13-6: Automatic Fetal MRI Segmentation with Volume and Weight Estimations Dylan Young, Toronto Metropolitan University	14-6: Probing Microstructural Orientations of Hippocampal Gray Matter in Alzheimer's Disease Bradley Karat, Western University	
	13-7: Survival Prediction of Lung Cancer Using Real and GAN Synthesized Low-Dose CT Images Jenita Manokaran, University of Guelph	14-7: Neural Circuitry and Therapeutic Targeting of Depressive Symptoms in Schizophrenia Spectrum Disorders Julia Gallucci, University of Toronto	
	13-8: Characterizing the Tumor Microcirculatory System and Its Impact in Stereotactic Body Radiation Therapy Using Optical Coherence Tomography Hector Alejandro Contreras Sanchez, University of Toronto	14-8: Brain Perfusion in Social Anxiety Disorder and the Relationship with Symptom Severity: An Arterial Spin Labeling Investigation Christina Pereira, Centre for Addiction and Mental Health	
		14-9: Heterogeneity in Functional Connectivity: Dimensional Predictors of Individual Variability During Rest and Task fMRI in Psychosis Maria T Secara, University of Toronto	
		14-10: Higher General Intelligence Is Linked to Stable, Efficient, and Typical Brain Connectivity Patterns Justin Ng, University of Toronto	
10:20 - 11:15	Poster Viewing (Pitch Sessions 13 & 14 presenting)		Graydon Hall Foyer

11:15 - 12:15

Session 15
Talks
Deep/Machine Learning 2
Graydon Hall ABC

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- 15-1: Deep Learning-Enabled Quantitative Fluorescence Imaging for Surgery: Application to Post-Resection Residual Cancer
Jerry Wan, Princess Margaret Cancer Centre
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- 15-2: Evaluating the Utility of Deep Learning for Automatic Tumor Contouring in Breast Cancer Surgery
Chris Yeung, Queen's University
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- 15-3: Development and Evaluation of SlicerGPT: GPT Tailored for Enhancing Interaction with 3D Slicer Software
Pavel-Dumitru Cernelev, Queen's University
-
- 15-4: Exploring Osteosarcopenia Progression in Prostate Cancer Patients Using AI-Enabled Musculoskeletal Imaging Biomarkers
Saleh Tabatabaei, Sunnybrook Research Institute

Session 16
Talks
MRI 2
Greenwich Room

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- 16-1: Single Frequency Birdcage Coils for Improved 19F Molecular MRI in Mice
Sean McRae, Western University
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- 16-2: Correction of Motion and Resulting Field Offsets for Quantitative MRI Using Navigators
Miriam Hewlett, Western University
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- 16-3: Laterally Oscillating Trajectory for Undersampling Slices (LOTUS)
Mayuri Sothynathan, Robarts Research Institute
-
- 16-4: Real-Time Radiation Beam Imaging on a 1.5T MR Linear Accelerator Using Quantitative T1 Mapping
Brandon Tran, University of Toronto

12:15 - 12:30

Lunch Pickup

12:30 - 13:30

Panel: Commercialization of AI-enabled Medical Imaging Technology

Graydon Hall ABC

13:30 - 13:45

Break

13:45 - 14:45

Session 17
Talks
Cellular and Molecular
Graydon Hall ABC

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- 17-1: Comparing the Cellular Detection Limits of Magnetic Particle Imaging and Bioluminescence Imaging
Sophia Trozzo, Western University
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- 17-2: Spatial-Frequency Fluorescence Imaging for Surgical Guidance: Pre-Clinical Oral Cancer Experiments Using Porphyrin Nanoparticles
Christina Negus, Princess Margaret Cancer Research Centre
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- 17-3: Synaptic Density in Mental Health Treatment-Seeking Youth with a Substance Use Disorder: Positron Emission Tomography Studies of [18F]SynVesT-1 in the Toronto Adolescent & Youth (TAY) Cohort Study
Maia Zilberman, Centre for Addiction and Mental Health
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- 17-4: Preliminary Preclinical Pet Neuroimaging of [18F]ROCK202 for Rho-Associated Protein Kinase 2
Mark Bortolus, University of Toronto and Centre for Addiction and Mental Health

Session 18
Talks
Ultrasound and Photoacoustic
Greenwich Room

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- 18-1: Three-Dimensional Ultrasound for Investigating Synovial Blood Flow Changes with Exercise in Thumb Osteoarthritis
Megan Hutter, Western University
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- 18-2: Quantitative Analysis of Photoacoustic and Ultrasound Imaging of Red Blood Cell Aggregation in the Human Radial Artery
Taehoon Bok, St. Michael's Hospital
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- 18-3: Ultrasound Transducers for Microvascular Imaging with Superharmonic Contrast Imaging: Resolution and Field of View Comparison
Elvira Catalina Vazquez Avila, University of Toronto
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- 18-4: Assessments of Vascular Damage During Kidney Transplantation Using Photoacoustic Imaging
Sarah Dykstra, University of Toronto

14:45 - 15:20

Session 19
Pitches
Cellular and Molecular
Graydon Hall ABC

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- 19-1: Developing Magnetic Resonance Reporter Gene Imaging: Co-localization of Magnetotactic Bacteria Proteins
Qin (Daisy) Sun, Lawson Health Research Institute
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- 19-2: Visualizing Real-Time Mechanosensory Response of Endothelial Cells to Multi-Directional Wall Shear Stress
Kevin Moore, Western University
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- 19-3: Bridging Micro-to-Clinical Dosimetry for Alpha Particle Targeted Radionuclide Therapy
Shahin Ghaseminejad, Western University
-
- 19-4: Magnetic Particle Imaging Serves As a Biomarker for Measuring Tumour Associated Macrophage Density In Vivo
Nitara Fernando, Western University
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- 19-5: Monte Carlo Dosimetry Calculations of Cellular S-Values for 177Lu and 225Ac
Thanh-Tai Duong, Western University
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- 19-6: MRI of Bacteria: in Vitro Characterization of Lactobacillus Crispatus ATCC33820 at 3T
Gabriel Varela-Mattatall, Lawson Health Research Institute
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- 19-7: Pet Imaging Neuroinflammation with COX-1 Targeted [11C]PS13 in Mouse Models of Multiple Sclerosis
Amy Boyle, Centre for Addiction and Mental Health
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- 19-8: Novel Hyperpolarized 129Xe R3-Noria-Methanesulfonate Supramolecular Cage at 3.0 T MRI
Vira Grynko, Lakehead University
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- 19-09: Novel Hyperpolarized 129Xe R3-Noria-Methanesulfonate Supramolecular Cage at 3.0 T MRI
Vira Grynko, Lakehead University

Session 20
Pitches
Ultrasound and Optical
Greenwich Room

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- 20-1: Multi-Objective Multiple Instance Learning for Improving Prostate Cancer Detection in Ultrasounds
Mohamed Harmanani, Queen's University
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- 20-2: A Four-Dimensional Ultrasound System for Assessing Ligament Laxity in Basal Thumb Osteoarthritis
Randa Mudathir, Western University
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- 20-3: Realization of Automated Whole Breast 3D Doppler Ultrasound for Characterization of Breast Lesions
Amal Aziz, Western University
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- 20-4: Plane Wave Approaches with Dual-Frequency Arrays for Superharmonic Contrast Imaging
Jing Yang, University of Toronto
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- 20-5: Color Doppler Ultrasound for the Diagnosis of Placenta Accreta Spectrum Using Fused Texture Features from Multiple Domains
Dylan Young, Toronto Metropolitan University
-
- 20-6: Multimodal Scattering Agent for the Development of Training Phantoms: Finding a Substitution for Talc
Joeana Cambranis Romero, Western University
-
- 20-7: Qualitative Validation of a Cost-Effective Contrast Agent for Use in Doppler Flow Test Phantom
Emma Zhang, Western University
-
- 20-8: Polarimetric Image Guidance on Resected Breast Tumors to Optimize Mass Spectrometry Analysis
Michael Singh, University of Toronto
-
- 20-09: Polarization Speckle Pattern Analysis for the Investigation of Optical Properties in Biological Tissue
Carla Kulcsar, University of Toronto

15:20 - 16:15

Poster Viewing (Pitch Sessions 19 & 20 presenting)

Graydon Hall Foyer

16:15 - 17:00

Keynote Session II

Clinical Deployment of Raman Spectroscopy: Applications in Neurosurgery and Beyond
Frédéric Leblond, École Polytechnique de Montréal

Graydon Hall ABC

17:00 - 17:30

Closing and Awards

Michael Daly and Elodie Lugez

Graydon Hall ABC