

Neuroradiology – Session 1 8:00 am - 9:00 am (LH100)	
8:00 am	<b>Talk #1: Navigator-Based Motion and Field Correction for Susceptibility Weighted MRI</b> <b>Speaker:</b> <i>Miriam Hewlett, Robarts Research Institute</i>
8:10 am	<b>Talk #2: Precision of Metabolite-Selective MRS Measurements of Glutamate, GABA and Glutathione: A Review of Human Brain Studies</b> <b>Speaker:</b> <i>Kesavi Kanagasabai, Lawson Health Research Institute</i>
8:20 am	<b>Talk #3: Reproducibility of 3D pH-Weighted Chemical Exchange Saturation Transfer (CEST) MRI in the Spine</b> <b>Speaker:</b> <i>Alicia Cronin, Robarts Research Institute</i>
8:30 am	<b>Talk #4: A Feasibility Study Demonstrating In-Vivo Simultaneous Hyperpolarized <sup>129</sup>Xe MRI and [<sup>15</sup>O]-Water PET Measurements</b> <b>Speaker:</b> <i>Ramanpreet Sembhi, University of Western Ontario</i>
8:40 am	<b>Talk #5: Clinical Improvements and Lessons Learned from Systematic Review of the Past Decade of Mechanical Thrombectomy for Acute Ischemic Stroke Treatment at London Health Sciences Centre</b> <b>Speaker:</b> <i>Maria Bres Bullrich, LHSC</i>
8:50 am	<b>Talk #6: Blink and You'll Miss it: A Rapid-Fire CT Evaluation of Orbital Pathology</b> <b>Speaker:</b> <i>Indranil Balki, LHSC</i>
Neuroradiology – Session 2 9:30 am - 10:30 am (LH100)	
9:30 am	<b>Talk #1: Sensitivity of Cerebral Blood Flow and Oxygenation to High-Intracranial Pressure</b> <b>Speaker:</b> <i>Sule Karagulleoglu Kunduraci, University of Western Ontario</i>
9:40 am	<b>Talk #2: Impact of a Multi-Modal Intervention on CTA Ordering Rates in Patients Presenting with Vertigo to the Emergency Department</b> <b>Speaker:</b> <i>Natalie Kozlowski, University of Western Ontario</i>
9:50 am	<b>Talk #3: HyperTRCSS: A Hyperspectral Time-Resolved Compressive Sensing Spectrometer for Monitoring Blood Oxygenation and Metabolism in the Adult Brain</b> <b>Speaker:</b> <i>Natalie Li, University of Western Ontario</i>
10:00 am	<b>Talk #4: Slope-Based Near-Infrared Spectroscopy for More Accurate Estimation of Cerebral Hemodynamics</b> <b>Speaker:</b> <i>Ann Ping, University of Western Ontario</i>
10:10 am	<b>Talk #5: Importance of Normal Body Temperature in Traumatic Brain Injuries</b> <b>Speaker:</b> <i>Olivia Tong, Lawson Health Research Institute</i>
10:20 am	<b>Talk #6: Predicting Brain Retraction Pressure Using Photoplethysmography Optical Signals: Development of a Prototype System to Measure Applied Pressure with Optical Signals</b> <b>Speaker:</b> <i>Lee Sikstrom, Robarts Research Institute</i>
Nuclear Medicine 11:00 am - noon (LH100)	
11:00 am	<b>Talk #1: Radiolabelling of MAA Kits with Cyclotron-Produced [<sup>68</sup>Ga]GaCl<sub>3</sub> for Lung Blood Flow Evaluation in Healthy Pigs</b> <b>Speaker:</b> <i>Mojmir Suchy, Lawson Health Research Institute</i>
11:10 am	<b>Talk #2: Coronary Artery Calcium Score of Zero Does Not Rule Out Obstructive Coronary Artery Disease in Young Adults with Chest Pain</b> <b>Speaker:</b> <i>Osama Smettej, LHSC</i>
11:20 am	<b>Talk #3: Quantifying the Time-Integrated Activity (TIA) for Patient-Specific Dose Calculations in Radioactive Tracer Therapies: A Graphical PET/CT Approach</b> <b>Speaker:</b> <i>Danny De Sarno, Robarts Research Institute</i>
11:30 am	<b>Talk #4: PSMA-PET and PSMA Radioligand Therapy, Current and Future Applications</b> <b>Speaker:</b> <i>Debra Dawson, University of Western Ontario</i>
11:40 am	<b>Talk #5: Convolutional Neural Networks for Localization of Radioactive Sources with a Hand-Held Gamma Probe</b> <b>Speaker:</b> <i>Sydney Wilson, Robarts Research Institute</i>
11:50 am	<b>Talk #6: The Impact of Simulated Image Acquisition Time Reduction on Image Quality and Parameters of Myocardial Perfusion Imaging Using a Dedicated Cardiac Camera</b> <b>Speaker:</b> <i>Alireza Khatami, LHSC</i>

Musculoskeletal 8:00 am - 9:00 am (LH101)	
8:00 am	<b>Talk #1: Soft Tissue Tumours: Anatomic-Based Approach</b> <b>Speaker:</b> <i>Imran Ladak, University of Western Ontario</i>
8:10 am	<b>Talk #2: A Four-Dimensional Ultrasound System for Assessing Ligament Laxity in Basil Thumb Osteoarthritis</b> <b>Speaker:</b> <i>Randa Mudathir, Robarts Research Institute</i>
8:20 am	<b>Talk #3: The Anterolateral Complex of the Knee: History, Recent Developments, and Guide to Its Imaging</b> <b>Speaker:</b> <i>Hassan Abdallah, University of Western Ontario</i>
8:30 am	<b>Talk #4: Transcutaneous Magnetic Stimulation Thresholds in a Healthy Human Leg</b> <b>Speaker:</b> <i>Eleonore Fresnel, University of Western Ontario</i>
8:40 am	<b>Talk #5: Simulated and Experimental Approaches to Perfusion Cooling in Sim4Life: Verification and Applications to RF Heating of Implants</b> <b>Speaker:</b> <i>Amgad Louka, University of Western Ontario</i>
8:50 am	<b>Talk #6: Developing Three-Dimensional Ultrasound for Assessing Blood Flow in Thumb Osteoarthritis</b> <b>Speaker:</b> <i>Megan Hutter, Robarts Research Institute</i>
Artificial Intelligence – Session 1 9:30 am - 10:30 am (LH101)	
9:30 am	<b>Talk #1: Predicting Dosimetry of Stereotactic Ablative Radiotherapy for the Treatment of Multiple Lung Lesions</b> <b>Speaker:</b> <i>Edward Wang, LHSC</i>
9:40 am	<b>Talk #2: Predicting the Need for a Replan in Oropharyngeal Cancer: A Radiomic, Clinical, and Dosimetric Model</b> <b>Speaker:</b> <i>Tricia A. Chinnery, University of Western Ontario</i>
9:50 am	<b>Talk #3: Locating Cancer Tissue in Digitized Histopathology Whole Slide Images of Excised Lung Tumours Using Deep Learning</b> <b>Speaker:</b> <i>Salma Dammak, University of Western Ontario</i>
10:00 am	<b>Talk #4: Deep-Learning Based Segmentation of 3D Isotropic Hyperpolarized Xe Lung MRI for Generating vADC for a Large Patient Population Studied with the Use of Transfer Learning</b> <b>Speaker:</b> <i>Ramtin Babaeipour, University of Western Ontario</i>
10:10 am	<b>Talk #5: A Deep Learning Approach to Tumour Motion Forecasting for Surface Guided Radiation Therapy Based on Volumetric 4D-CT</b> <b>Speaker:</b> <i>Timothy Yau, LHSC</i>
10:20 am	<b>Talk #6: Interpretation of a Radiomic Machine Learning Model for Stereotactic Radiosurgery Outcome Prediction Using Qualitative Assessment of Brain Metastases</b> <b>Speaker:</b> <i>David DeVries, University of Western Ontario</i>
Artificial Intelligence – Session 2 11:00 am – 11:40 am (LH101)	
11:00 am	<b>Talk #1: Development of Machine Learning-Based Software Systems for Histology-mpMRI Prostate Registration</b> <b>Speaker:</b> <i>Ryan Au, University of Western Ontario</i>
11:10 am	<b>Talk #2: Real Time Mitral Annulus Segmentation from 4D Transesophageal Echocardiography Using Deep Learning Regression</b> <b>Speaker:</b> <i>Patrick Carnahan, Robarts Research Institute</i>
11:20 am	<b>Talk #3: WESTERN-RLP: Amplifying Image-Caption Radiology Datasets with Image Embeddings Search of Large-scale Natural Image Databases</b> <b>Speaker:</b> <i>Kartik Gupta, University of Western Ontario</i>
11:30 am	<b>Talk #4: Image Quizzer: A Versatile and Customizable Tool for Education and Standardized Data Collection in Imaging Research</b> <b>Speaker:</b> <i>Carol A. Johnson, LHSC</i>

Body – Session 1 8:00 am - 9:00 am (LH103)	
8:00 am	<b>Talk #1: Morphological Analysis of the Scala Tympani for Safe Cochlear Implant Insertions</b> <b>Speaker:</b> <i>Ashley Micuda, University of Western Ontario</i>
8:10 am	<b>Talk #2: Impact of a Visual Aid Tool to Assist Radiology Residents in the Detection of Pancreatic Tumour Contact with the SMA at Staging CT</b> <b>Speaker:</b> <i>Robert Policelli, University of Western Ontario</i>
8:20 am	<b>Talk #3: Preliminary Study of Accelerated Human Lung MRI with Hyperpolarized <sup>129</sup>Xe</b> <b>Speaker:</b> <i>Samuel Perron, University of Western Ontario</i>
8:30 am	<b>Talk #4: Tele-Robotic Ultrasound Usability Testing on a Phantom</b> <b>Speaker:</b> <i>Henry Madubuobi, LHSC</i>
8:40 am	<b>Talk #5: Improving MRI Access for LRCP MR Simulation Patients</b> <b>Speaker:</b> <i>Amanda Johnston, LHSC</i>
8:50 am	<b>Talk #6: Extranodal Lymphoma: The Great Imitator</b> <b>Speaker:</b> <i>Naman Siddique, University of Western Ontario</i>
Body Session 2 & Cardiothoracic 9:30 am - 10:30 am (LH103)	
9:30 am	<b>Talk #1: Chronic Retrograde Transileal Conduit Ureteric Stent Outcomes</b> <b>Speaker:</b> <i>Lakhdeep Brar, University of Western Ontario</i>
9:40 am	<b>Talk #2: Low-Cost Fourier Ptychographic Microscope for Malaria Diagnosis</b> <b>Speaker:</b> <i>Justin Yang, Robarts Research Institute</i>
9:50 am	<b>Talk #3: Trialling of an On-Call Preparation Course for PGY1 Radiology Residents</b> <b>Speaker:</b> <i>Naman Siddique, University of Western Ontario</i>
10:00 am	<b>Talk #4: Molecular Imaging of Bacteria: Assessing Infection, Inflammation and Microbial Therapeutics</b> <b>Speaker:</b> <i>Donna Goldhawk, Lawson Health Research Institute</i>
10:10 am	<b>Talk #5: The Effect of CT Acquisition Parameters on Extracted Radiomic Features Using Computational Phantoms</b> <b>Speaker:</b> <i>Jaryd Christie, LHSC</i>
10:20 am	<b>Talk #6: Pre and Postoperative Imaging Evaluation of Ross Procedure Candidates: Anatomy, Complications, and What the Surgeon Wants to Know</b> <b>Speaker:</b> <i>Stefan Knezevic, LHSC</i>
Breast & Vascular Interventional 11:00 am - 11:30 am (LH103)	
11:00 am	<b>Talk #1: Toward Accurate Real-Time Breast Ultrasound Elastography Using a Model Reduction Technique for Accelerating Stiffness Image Reconstruction</b> <b>Speaker:</b> <i>Amal Aziz, University of Western Ontario</i>
11:10 am	<b>Talk #2: Futility of Colonic Stent insertion in settings other than Colorectal Cancer</b> <b>Speaker:</b> <i>Naman Siddique, University of Western Ontario</i>
11:20 am	<b>Talk #3: Development of Synthetic Mask Digital Energy Subtraction for Coronary Stent Imaging</b> <b>Speaker:</b> <i>Lisa Garland, Robarts Research Institute</i>
11:30 am	<b>Talk #4: Ultrasound-guided Intranodal Lipiodol Lymphangiogram -An Update on The Vic experience of an innovative diagnostic and therapeutic technique</b> <b>Speaker:</b> <i>Naman Siddique, University of Western Ontario</i>