

ImNO Symposium 2020 Poster Numbers

Session-Poster #	First author	Organization	Paper Title	Session Title
Poster 1-1	Yu-Jack Shen	University of Toronto	Vascular Disruption in Subcutaneous Mouse Cancer Models Using Ultrasound Activated Agents	Cellular and Molecular Imaging
Poster 1-2	Yun Xiang	University of Toronto	Docetaxel-loaded nanobubbles for combined focused ultrasound-induced antivascular therapy and targeted drug delivery of breast cancer	Cellular and Molecular Imaging
Poster 1-3	Olivia C Sehl	Robarts Research Institute	Detecting the depletion of liver, splenic, and tumor-associated macrophages with fluorine-19 MRI at 3 Tesla	Cellular and Molecular Imaging
Poster 1-4	Alison Cheung	Sunnybrook Research Institute	Quantitative spatial analysis of single cells in the tumour microenvironment using digital immunofluorescence protein multiplexing	Cellular and Molecular Imaging
Poster 1-5	Tina Khazaei	Robarts Research Institute	Non-destructive Quantification of Small Molecules Diffusion using Micro-CT	Cellular and Molecular Imaging
Poster 1-6	Veronica Dubois	Robarts Research Institute	Development of molecular imaging tools for monitoring the fate of T cell cancer immunotherapies	Cellular and Molecular Imaging
Poster 1-7	Nourhan Shalaby	Western University	Development of a Human-Based Dual PET/MR Reporter Gene System for Cell Tracking	Cellular and Molecular Imaging
Poster 1-8	Alexia Kirby	University of Ottawa	Development of Aldehyde-Sensing Probes for Early Biomarkers of Disease and Injury Using PET and Fluorescence Microscopy	Cellular and Molecular Imaging
Poster 1-9	Ann Fernando	University of Toronto	Derivation of Monoclonal Antibodies Targeting GvpA, the major structural protein of Gas Vesicles: A New Set of Tool for Detecting and Imaging Gas Vesicles	Cellular and Molecular Imaging
Poster 1-10	Ariel Buchler	University of Ottawa	Selective Imaging of Matrix Metalloproteinase-13 to Detect Extracellular Matrix Remodelling in Atherosclerotic Lesions	Cellular and Molecular Imaging
Poster 1-11	Kierstin P Melo	Western University	Comparing detection limits of Magnetic Particle Imaging (MPI) to Magnetic Resonance Imaging (MRI) using super paramagnetic iron oxide nanoparticles in a breast cancer metastasis model	Cellular and Molecular Imaging
Poster 1-12	Nicholas D. Calvert	University of Ottawa	Exploring Surface Ligand Chemistry to Optimize in vivo Cell Tracking in Magnetic Particle Imaging	Cellular and Molecular Imaging
Poster 1-13	Daniel Lorusso	Western University	Real-time microscopic imaging of endothelial cell responses to laminar and disturbed fluid flow	Cellular and Molecular Imaging
Poster 1-14	Mark Armstrong	University of Windsor	Dictionary Learning for Automated Cell Tracking	Cellular and Molecular Imaging
Poster 2-1	Sukhraj Virdee	Ryerson University	Spatial Dependence of Computed Tomography Disease Features in COPD Quantified using Joint Count Statistics	Lung Imaging

ImNO Symposium 2020 Poster Numbers

Session-Poster #	First author	Organization	Paper Title	Session Title
Poster 2-2	Elise Woodward	Western University	Emphysema Measurements in Alpha-1 Antitrypsin Deficiency using ^3He and ^{129}Xe MRI	Lung Imaging
Poster 2-3	Fateen Basharat	Ryerson University	Theoretical feasibility of xenon-enhanced dual energy x-ray radiography for functional imaging of respiratory disease	Lung Imaging
Poster 2-4	Alexander M Matheson	Robarts Research Institute	Convolutional Neural Network 1H MRI Lung Segmentation for Hyperpolarized Gas Imaging	Lung Imaging
Poster 2-5	Ryan Au	Ryerson University	Computed Tomography Radiomics Imaging Measurements in Chronic Obstructive Pulmonary Disease	Lung Imaging
Poster 2-6	Amir Moslemi	Ryerson university	Machine Learning for Predicting COPD Hospitalization using Quantitative CT Imaging	Lung Imaging
Poster 3-1	Fatemeh Zabihollahy	Carleton University	Fully Automated Segmentation of Prostate Zonal Anatomy on T2-weighted (T2W) and Apparent Diffusion Coefficient (ADC) Map MR Images and Localization of Prostate Peripheral Zone Tumors on ADC Map MR Image Using a U-Net-based Method	Machine Learning in Cancer Imaging
Poster 3-2	Karen Batch	Queen's University	Using natural language processing to predict splenomegaly from >100,000 structured radiology reports	Machine Learning in Cancer Imaging
Poster 3-3	Andrew Grebenisan	Queen's University	Transfer Learning for Prostate Cancer Diagnosis	Machine Learning in Cancer Imaging
Poster 3-4	Malaika Ngugama	Queen's University	Radiomic and genomic heterogeneity as predictors of acquired resistance to targeted therapy in metastatic CRC	Machine Learning in Cancer Imaging
Poster 3-5	Wenyao Xia	Western University	Automatic paraspinal muscles segmentation in patients with lumbar pathology with deep convolutional neural network	Machine Learning in Cancer Imaging
Poster 3-6	Grey C Kuling	University of Toronto	Domain Adapted Breast Tissue Segmentation in Magnetic Resonance Imaging	Machine Learning in Cancer Imaging
Poster 3-7	Wenchao Han	Western University	Automatic cancer subtype grading on digital histopathology images of radical prostatectomy specimens	Machine Learning in Cancer Imaging
Poster 4-1	Laura P Connolly	Queen's University	Classification of primary cancer and surrounding tissue in breast cancer xenograft models	Machine Learning in Imaging
Poster 4-2	Heather M Young	Western University	Volumetric vs. Conventional 4-dimensional CT in Non-Small Cell Lung Cancer Patients	Machine Learning in Imaging

ImNO Symposium 2020 Poster Numbers

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Poster 4-3	Amoon Jamzad	Queen's University	Cancer Cell Detection with Raman Spectroscopy: A Multidisciplinary Workflow	Machine Learning in Imaging
Poster 4-4	Jenny Wang	Queen's University	Desorptive Electrospray Ionization Mass Spectrometry Imaging (DESI-MSI) in the Application of Cancer Identification in Prostate	Machine Learning in Imaging
Poster 4-5	MaryAnne Panoyan	Queens University	Investigating the role of immune environments and quantitative imaging phenotypes in pancreatic cancer	Machine Learning in Imaging
Poster 4-6	Allison J Clement	Sunnybrook Research Institute	Micro-Finite Element Modeling of Osteoblastic Vertebral Metastasis Fractures	Machine Learning in Imaging
Poster 4-7	Grace Pigeau	Queen's University	Using deep learning to simulate kidney ultrasound images	Machine Learning in Imaging
Poster 4-8	Xin Yue Wang	Western University	Implementation of density-adapted 3D projection-reconstruction MRI sequence for sodium imaging of small animals at 3 Tesla	Machine Learning in Imaging
Poster 5-1	Michael J Daly	University Health Network	Image-Guided Fluorescence Tomography: Assessment in Pre-Clinical Models of Oral Cancer Surgery	Image-Guided Interventions
Poster 5-2	Natasja Janssen	Queen's University	Navigated skin cancer surgery with real-time tissue characterization	Image-Guided Interventions
Poster 5-3	Benjamin Dourthe	Sunnybrook Health Sciences Centre	Using computer vision sensing technologies for anterior cruciate ligament injury screening.	Image-Guided Interventions
Poster 5-4	Saleh Choueib	Queen's University	Assessment of usability of real-time needle tracking with a virtual reality display	Image-Guided Interventions
Poster 5-5	Reid Vassallo	Robarts Research Institute	Deriving blood flow directions from neurosurgical videos using deep learning and dynamic linear models	Image-Guided Interventions
Poster 5-6	Yanyu Mu	Robarts Research Institute	Augmented reality simulator for ultrasound-guided percutaneous renal access	Image-Guided Interventions
Poster 5-7	Lauren Yates	Queen's University	Using a biophotonic probe for robotic tissue scanning	Image-Guided Interventions
Poster 5-8	Catherine O Wu	Queen's University	Creation and evaluation of virtual nephrolithotomy training models	Image-Guided Interventions
Poster 5-9	Saghar Batebi	Western University	RF magnetic fields Interaction with the intracranial pressure sensor in a 64 MHz head-only RF coil	Image-Guided Interventions
Poster 5-10	Derek J Gillies	Robarts Research Institute	Image-guidance Accuracy of a 3D Ultrasound System for Interventional Liver Cancer Therapies	Image-Guided Interventions
Poster 5-11	Hareem Nisar	Western University	Fluoro-free, Ultrasound-based Navigation System for Cardiac Interventions	Image-Guided Interventions

ImNO Symposium 2020 Poster Numbers

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Poster 5-12	Victoria Wu	Queen's University	Using multiple frame input U-net for automated segmentation of spinal ultrasound images	Image-Guided Interventions
Poster 6-1	Dimuthu Hemachandra	Western University	A machine learning approach to detect early-stage Parkinson's disease	Neurology Imaging
Poster 6-2	Parisa Mojiri Forooshani	Sunnybrook Research Institute	Uncertainty estimation of automated white matter hyperintensity segmentation using a Bayesian 3D UNet	Neurology Imaging
Poster 6-3	Duncan GJ Green	Centre for Addiction and Mental Health	Fatty Acid Amide Hydrolase and Threat Related Amygdala Activity: A Combined Positron Emission Tomography and Magnetic Resonance Imaging Study	Neurology Imaging
Poster 6-4	Kauê T N Duarte	University of Campinas	Graph-based Representation of 3D Brain Volume for Alzheimer's Disease Analysis	Neurology Imaging
Poster 6-5	Loxlan W. Kasa	Western University	Diffusion Kurtosis Imaging Goodness of Fit and Estimated Parameter Precision at Varying Gradient Strength in High Spatial Resolution 3T MRI	Neurology Imaging
Poster 6-6	Erin V. Gaudette	Centre for Addiction and Mental Health	Endocannabinoid Metabolism in Posttraumatic Stress Disorder: Results from a Neuroimaging Study with the Novel Fatty Acid Amide Hydrolase Probe, [C-11] CURB	Neurology Imaging
Poster 6-7	Jennifer Truong	Centre for Addiction and Mental Health	Investigating brain monoamine oxidase B status in alcohol use disorder with the positron emission tomography (PET) tracer [C-11]SL25.1188	Neurology Imaging
Poster 6-8	Mashal Ahmed	Centre for Addiction and Mental Health	Investigating Fatty Acid Amide Hydrolase Levels in Social Anxiety Disorder: A positron emission tomography (PET) study using [C-11]CURB	Neurology Imaging
Poster 6-9	Cassis Varlow	University of Toronto	Comparative Radiosyntheses of [18F]FPEB for PET Imaging of mGluR5: Preliminary Imaging Studies in a Transgenic Mouse Model of Alzheimer's disease.	Neurology Imaging
Poster 6-10	Megha Verma	Western University	Evaluating Anesthetic Protocols for Non-Human Primate Functional Neuroimaging	Neurology Imaging
Poster 6-11	Mikaeel Valli	Centre for Addiction and Mental Health	PET Imaging Extra-Striatal D2 Receptors in Parkinson's Disease with Rapid Eye Movement Sleep Behaviour Disorder	Neurology Imaging
Poster 6-12	Naomi S Abayomi	Western University	Regularization of Continuous-Wave Hyperspectral Near Infrared Spectroscopy with Spatially-Resolved Measurements Improves Accuracy	Neurology Imaging

ImNO Symposium 2020 Poster Numbers

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Poster 6-13	Maria Diez-Cirarda	Centre for Addiction and Mental Health	Relationships between Dynamic functional connectivity patterns and dopaminergic therapy in Parkinson's disease	Neurology Imaging
Poster 6-14	Helena Zhang	Centre for Addiction and Mental Health	Changes in blood oxygen level dependent (BOLD) signal to smoking cues in the insula, anterior cingulate gyrus and inferior frontal gyrus are negatively associated with baseline smoking consumption: preliminary findings from a smoking cessation RCT.	Neurology Imaging
Poster 6-15	Jason Kai	Western University	Towards identifying reliable short-ranged, U-shaped structural connectivity	Neurology Imaging
Poster 6-16	Jeffrey G Hamilton	Western University	MRI to investigate neurological complications in patients with TTP and the implementation of quantitative myelin water imaging by mcDESPOt	Neurology Imaging
Poster 6-17	Nicholas Simard	McMaster University	Assessing Functional Complexity and Structural Connectivity in mTBI Patients	Neurology Imaging
Poster 6-18	David J F Cohen	Western University	Advanced Near-Infrared Spectroscopy for Improved Sensitivity to Cerebral Oxygenation in Adults	Neurology Imaging
Poster 6-19	Kevin J Chung	Western University	Connective Morphology for Efficient Skull-stripping of Head CT Images	Neurology Imaging
Poster 6-20	Navona Calarco	Centre for Addiction and Mental Health	Pilot testing of neuromelanin as a biomarker of late-life depression	Neurology Imaging
Poster 6-21	Sofia Chavez	Centre for Addiction and Mental Health	Macromolecular Pool Fraction (MPF) Maps in Minimal Scan Time Using a Modified Fast SPGR Sequence and a Calibrated Synthetic MT Reference Image	Neurology Imaging
Poster 6-22	Clara Fleisig	The Foundation for Student Science and Technology	Undersampled 3D Hyperpolarized 13C Imaging of the Human Brain: a Retrospective Analysis	Neurology Imaging
Poster 6-23	Wallace S Loos	University of Calgary	Brain Structure Volume Analysis after Accelerated MR Imaging	Neurology Imaging
Poster 6-24	Junchao Tong	Centre for Addiction and Mental Health	Validation of a Preclinical Lipopolysaccharide Model of Neuroinflammation using the TSPO PET Radiotracer [18F]FEPPA	Neurology Imaging
Poster 6-25	Ian R Duffy	Centre for Addiction and Mental Health	Novel Radiosynthesis of [11C]Bexarotene for PET Imaging of Retinoid X Receptors in the Brain	Neurology Imaging
Poster 7-1	Sydney M Robinson	Western University	Development of scaphoid kinematics using four-dimensional computed tomography	Musculoskeletal Imaging and Technology

ImNO Symposium 2020 Poster Numbers

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Poster 7-2	Baraa Daher	Western University	Four-Dimensional Computed Tomography Scans Allow Dynamic Visualization and Measurement of Scapulothoracic Joint Kinematics	Musculoskeletal Imaging and Technology
Poster 7-3	Xunhua Yuan	Robarts Research Institute	Deep Learning of Automatic Image Segmentation for TKR in Radiostereometric Analysis	Musculoskeletal Imaging and Technology
Poster 8-1	Spencer Christiansen	Western University	Stroke thrombus RBC content and etiology prediction using R2* and susceptibility values ex vivo at 3T	Cardiovascular and Vascular Imaging
Poster 8-2	Vishaal Sumra	University of Toronto	Processing phase data from qT1 scans for the production of SWI-like vasculature maps: preliminary data	Cardiovascular and Vascular Imaging
Poster 8-3	Oi Wai Chau	Western University	Assessing Myocardial Perfusion After Cardiac Irradiation Using Dynamic Contrast Enhanced Hybrid PET/MRI	Cardiovascular and Vascular Imaging
Poster 8-4	Nadia A Farrag	Carleton University	Evaluation of left atrial fibrosis in canines following irregular cardiac pacing using 3D late gadolinium enhanced CMR images	Cardiovascular and Vascular Imaging
Poster 8-5	Kirstin A Walker	Sunnybrook Health Sciences Centre	Microstructural changes in the penumbra of cerebral small vessel disease lesions	Cardiovascular and Vascular Imaging
Poster 8-6	Qiong Liu	Robarts Research Institute	Carotid plaque progression prediction by U-Net	Cardiovascular and Vascular Imaging
Poster 8-7	Datta Singh Goolaub	University of Toronto	Comparison of Cartesian and radial phase contrast MRI for fetal blood flow measurement	Cardiovascular and Vascular Imaging
Poster 8-8	Peter Lin	University of Toronto	Co-registered cardiac ex vivo DT images and histological images for fibrosis quantification	Cardiovascular and Vascular Imaging
Poster 9-1	Xiao Fan Ding	Western University	Proposed Torsional Spring Calibration in Torque Measurement Method Described in ASTM F22123-17	Instrumentation and Technology Development
Poster 9-2	Jake J Valsamis	Western University	Robust Retrospective Eddy Current Correction for Diffusion MRI	Instrumentation and Technology Development
Poster 9-3	Peter Truong	Centre for Addiction and Mental Health	Test-Retest Reproducibility of in vivo Cortical GABA and Glx Measurements with MEGA-PRESS	Instrumentation and Technology Development
Poster 9-4	Arjama Halder	Western University	Measuring electric fields induced by an X-axis gradient coil in a tissue-mimicking ASTM phantom	Instrumentation and Technology Development
Poster 9-5	Arjama Halder	Western University	Validation of commercially available quasi-static solvers in SEMCAD and Sim4life that simulates electromagnetic interactions between implantable devices and gradient coils in an MRI to assist device testing	Instrumentation and Technology Development

ImNO Symposium 2020 Poster Numbers

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Poster 9-6	Matthew A McCready	Western University	An increased homogeneity design method for delta relaxation enhanced magnetic resonance systems	Instrumentation and Technology Development
Poster 9-7	Sydney Wilson	Western University	Parametric Design of Focussed Collimator for Real-Time Intra-Operative Gamma Detection	Instrumentation and Technology Development
Poster 9-8	Nidhi Singh	University of Toronto	Transurethral light delivery for photoacoustic imaging of porphyrin contrast agent in prostate mimicking phantoms	Instrumentation and Technology Development
Poster 9-9	Joseph U. Umoh	Robarts Research Institute	Micro-CT Derivation of the Relationship Between Visceral Adipose Tissue and Whole-Body Adipose Tissue in Rats and Mice	Instrumentation and Technology Development
Poster 9-10	Sawyer Badiuk	Western University	Fabrication of anthropomorphic maxillofacial and forearm phantoms from patient scans using 3-dimensional printing technology for medical imaging and dosimetry	Instrumentation and Technology Development
Poster 9-11	Melodie Cyr	McMaster University	Gadolinium Detection in Liver & Kidney Phantoms Using X-Ray Fluorescence	Instrumentation and Technology Development
Poster 9-12	Daniel Allen	Robarts Research Institute	Miniature C-Arm Simulator Using Wireless Accelerometer Based Tracking	Instrumentation and Technology Development
Poster 9-13	Fraser Raney	Queen's University	Toward Generalizable Semantic Medical Image Segmentation	Instrumentation and Technology Development
Poster 9-14	Felipe Roa	University of Toronto	Development of endoscopic micro-ultrasound transducers for intraluminal imaging	Instrumentation and Technology Development
Poster 9-15	Diego F Martinez	Western University	MRI Room Placement: The effect of an elevator operation on local magnetic environment	Instrumentation and Technology Development
Poster 9-16	Diego F Martinez	Western University	Quench Dynamics Across Multiple Field Strengths	Instrumentation and Technology Development
Poster 9-17	Colin Metrow	Western University	Designing a high-pass 21 MHz RF Birdcage Coil for testing of medical implants	Instrumentation and Technology Development
Poster 9-18	Santiago F Cobos	Western University	Cost-effective micro-CT scanner for remote archaeological sites	Instrumentation and Technology Development
Poster 9-19	Brandon Driscoll	QIPCM, TECHA Institute, UHN	Creation and Validation of the Quantitative Imaging for Personalized Medicine Artificial Intelligence Development and Collaboration Environment	Instrumentation and Technology Development
Poster 9-20	Sindhura Thirumal	Queen's University	Developing an Analysis Pipeline for Hyperion Imaging System Data	Instrumentation and Technology Development

ImNO Symposium 2020 Poster Numbers

Session-Poster #	First author	Organization	Paper Title	Session Title
Poster 9-21	Jaryd R Christie	Western University	Novel Functional Imaging Method to Determine Capillary Network Geometry and in vivo Capillary Hemoglobin Concentration in Skeletal Muscle	Instrumentation and Technology Development
Poster 9-22	William Anderson	Western University	Design and 3D Printing of Wireless Load Cells for Biomedical Applications	Instrumentation and Technology Development
Poster 9-23	Xiao Fan Ding	Western University	Modelling Static Field Induced Torque on Simplified Medical Devices	Instrumentation and Technology Development
Poster 9-24	Matteo Bomben	University of Toronto	Synthesis of novel MRI phantoms for the enhanced imaging of intraplaque hemorrhage	Instrumentation and Technology Development
Poster 9-25	Eric J Lessard	Western University	The X-Mode Gradient: Improved Performance for Select Applications	Instrumentation and Technology Development
Poster 9-26	Layale Bazzi	University of Windsor	Multi-Echo Spin Echo MRI Signal Modulation Based on Slice Profiles	Instrumentation and Technology Development
Poster 9-27	Simran Sethi	Western University	Quantification of T1 and T2* Relaxation Times of Fetal Fat and Fetal Muscles at 1.5 T	Instrumentation and Technology Development
Poster 9-28	Saghar Batebi	Western University	The study of RF Induced Heating on Orthopedic Implant at 63.87 MHz	Instrumentation and Technology Development