2021 Oral Award Winners

Oral Session 1 - Image-Guided Devices - Jessica R Rodgers, Robarts Research Institute
*Feasibility of fusing three-dimensional transabdominal and transrectal ultrasound images to visualize intracavitary gynaecological brachytherapy applicators*

Oral Session 2 - Lung & Cellular imaging - Peter Jeon, Western University
*Progressive changes in glutamate concentration in early stages of schizophrenia - A longitudinal 7-Tesla MRS study*

Oral Session 3 - Imaging for Musculoskeletal analysis - Sam Papernick, Western University
*Reliability and concurrent validity of 3D ultrasound for quantifying knee cartilage volume*

Oral Session 13 - Cancer Imaging - Shirley Liu, Robarts Research Institute
*Molecular imaging reveals a high degree of cross-seeding of spontaneous metastases in a novel mouse model of synchronous bilateral breast cancer*

Oral Session 19 - Covid-19 & Brain related injuries - Alicia Cronin, Western University
*The Severity of Spinal Cord Compression is Associated with Functional Plasticity in Degenerative Cervical Myelopathy*

Oral Session 21 - Machine learning II - Nathan Orlando, Robarts Research Institute
*Effect of dataset size and acquisition type on deep learning segmentation of the prostate in 3D ultrasound*

Oral Session 26 - MRI contrast & devices - TianDuo Wang, Western University
*An activatable reporter gene system to visualize cell-cell communication in cancer immunotherapies*

Oral Session 27 - Neuro Imaging - Kevin J Chung, Western University
*Measuring Ischemic Volumes using Quantitative Multiphase CT Angiography Perfusion Maps*

2021 Pitch Award Winners

Session 5 - Device, hardware, system development I - Claire K Park, Western University
*Toward high-resolution PEM and US-guided core-needle biopsy*

Session 6 - Machine Learning for Cancer Applications - Tricia Chinnery, Western University
*A CT-based radiomics model for predicting gastrostomy tube insertion in oropharyngeal cancer*

Session 7 - Image Processing - Santiago F Cobos, Western University
*Cost-effective micro-CT imaging of medical components fabricated with additive manufacturing*

Session 10 - Musculoskeletal Imaging - Dana N Broberg, Western University
*Effect of vitamin D and memantine supplementation on body composition in the APP/PS1 mouse model of Alzheimer’s disease following chronic vitamin D deficiency*

Session 11 - Deep learning - Miriam Hewlett, Western University
*Deep Learning for Motion Correction using Multichannel MRI Data*

Session 12 - Contrast Agents II - Tuneesh K Ranota, Western University
*The Feasibility of Hyperpolarized 129Xe MRI for lung damage in COVID-19 Survivors using a Key-Hole Method.*

Session 17 - Neuro Imaging - Ramina Adam, Western University
*Brain network connectivity and neurodevelopmental outcomes in children with infantile hydrocephalus*

Session 18 - Computation Modeling - Bradley G Karat, Western University
*Correlating Macro and Microstructure in the Hippocampus*