

## **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 - Tuneshe K Ranota**, Western University  
*The Feasibility of Hyperpolarized  $^{129}\text{Xe}$  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*