

Session Program

Jun 5 - 11, 2022



Canadian Association
of Physicists

Association canadienne
des physiciens et physiciennes

2022 CAP Congress / Congrès de l'ACP 2022

***DPMB Poster Session & Student Poster
Competition (17) | Session d'affiches DPMB
et concours d'affiches étudiantes (17)***

McMaster University

Tue, June 7

5:30 PM

DPMB Poster Session & Student Poster Competition (17) | Session d'affiches DPMB et concours d'affiches étudiantes (17)

Session | Location: McMaster University, MUSC Marketplace

5:32 – 5:34 PM

(U*) (POS-45) Measuring Axon Diameters in Mice Using Oscillating Gradient Spin Echo MRI Sequences

Speaker

Madison Chisholm

5:34 – 5:36 PM

(G*) (POS-46) Inferring axon diameters in white matter tracts of the live mouse brain

Speaker

Melissa Anderson

5:36 – 5:38 PM

(POS-48) Developments in the Rapid Diagnosis of Bacterial Pathogens Using Laser-Induced Breakdown Spectroscopy

Speaker

Emma Blanchette

5:38 – 5:40 PM

(G*) (POS-49) Segmentation in Quantitative Dynamic Nuclear Medicine: The Insufficiency of the TG-211 of the AAPM

Speaker

Philippe Laporte

5:40 – 5:42 PM

(U*) (POS-50) Laser-Induced Breakdown Spectroscopy Emission Enhancement from Bacteria on a Silver Thin Film

Speaker

Emily Tracey

5:42 – 5:44 PM

(G*) (POS-51) Achieving robust perfect adaptation while suppressing stochastic fluctuations in biochemical reaction networks

Speaker

Brayden Kell

5:44 – 5:46 PM

(G*) (POS-52) Atomic Force Microscopy and Molecular Dynamics to Study the Structure of Nanodomains of Model Lipid Membranes in Relation to Alzheimer's Disease.

Speaker

Nanqin Mei

5:46 - 5:48 PM

(G*) (POS-53) Protective Effect of Trehalose Sugar Against Amyloid β Toxicity in Model Lipid Membranes**Speaker**

Yue Xu

5:48 - 5:50 PM

(G*) (POS-54) The Feasibility of the Xenon Ventilatory ADC Approach Using ^{129}Xe MRI**Speaker**

Elnaz Parniyany

5:50 - 5:52 PM

(U*) (POS-55) HEDGEHOG: a ridge filter design for FLASH proton therapy**Speaker**

David Roddy

5:52 - 5:54 PM

(G*) (POS-56) Comparing perturbation responses of complex biological processes to their stochastic correlations**Speaker**

Seshu Iyengar

5:54 - 5:56 PM

(POS-57) MSCDNet: A Multi-Scale and Cross-Dimension Feature Fusion Attention Network for Alzheimer's Disease Prediction With Structural MRI**Speaker**

Fei LIU

5:56 - 5:58 PM

(POS-58) Needle Tip Identification in Clinical Power Doppler Ultrasound Using Induced Vibrations by an Innovative Mechanical Oscillator**Speaker**

David Tessier

5:58 - 6:00 PM

(U*) (POS-59) Using Ultrasound Imaging for Quantifying Kidney Fibrosis**Speaker**

Ms Helen Melino

6:00 - 6:02 PM

(U*) (POS-60) Sex Differences in Airway Metrics & Chronic Obstructive Pulmonary Disease**Speaker**

Ms Neha Nasir

6:02 - 6:04 PM

(G*) (POS-61) Drug design of small molecules implementing a deep learning model.**Speaker**

Ms Vrinda Nair

6:04 - 6:06 PM

(G*) (POS-73) Effect of cuff-induced occlusion on muscle oxygenation

Speaker

Timothy Burton

7:00 PM