

## **Session Program**

**21-26 Jun 2026**



**Canadian Association  
of Physicists**

**Association canadienne  
des physiciens et physiciennes**

## **2026 CAP Congress / Congrès de l'ACP 2026**

### ***DPMB Poster Session & Student Poster Competition | Session d'affiches DPMB et concours d'affiches étudiantes***

U. Ottawa - Learning Crossroads (CRX) Building  
100 Louis-Pasteur Private, Ottawa, ON K1N 9N3

## Tuesday 23 June

18:00

### DPMB Poster Session & Student Poster Competition | Session d'affiches DPMB et concours d'affiches étudiantes

Poster Session |

Location: U. Ottawa - Learning Crossroads (CRX) Building, 100 Louis-Pasteur Private, Ottawa, ON K1N 9N3

#### Probing the Translocation Dynamics of Linear Polysaccharide Polymers: Solid-State Nanopore Sensing of Heparin

**Speaker**

Kexin Zhao

#### Modeling Temperature- and Salt-Dependent Fold Switching in the Metamorphic Protein Lymphotactin

**Speaker**

Dr Bahman Seifi

#### Exploring Individualized Stimuli for Auditory Evoked Responses

**Speaker**

Elizabeth Allison

#### In Silico Estimation of Brain Optical Properties with Time-Resolved Near-Infrared Spectroscopy Using a Two-Detector Two-Layer Photon Diffusion Model

**Speaker**

Aria Riahi

#### Deep Learning-Based Target Segmentation for MRI-Guided HDR-Brachytherapy: A Pilot Study

**Speaker**

Soroush Ghomashchi

#### Synthesizing higher-resolution transmission images from rastered pencil beams in a simultaneous-primary-scatter x-ray imager (SPSxi)

**Speaker**

Gabrielle Z. Lachance

#### Evaluating an approximation of biological tissue photon propagation model using simulations

**Speaker**

Darya Sukhina

#### Preclinical Evaluation of Assigning Anatomical Labels in Magnetic Resonance Imaging Using a Transgenic 5XFAD Mouse Model of Alzheimer's Disease

**Speaker**

Alex Stoinescu

#### Modelling the motility patterns of peritrichous bacteria in the presence of varying chemoattractant and chemorepellent gradients

**Speaker**

Justus McRae

**Spectroscopic Phasor Cross Correlation: A Novel Framework for Dynamic OCT Contrasts**

**Speaker**

Vethushan Ramalingam

19:30