

Session Program

6-11 Jun 2021



**Canadian Association
of Physicists**

**Association canadienne
des physiciens et physiciennes**

2021 CAP Virtual Congress / Congrès virtuel de l'ACP 2021

TS-6-2 CAP-COMP Medical Physics (DPMB Symposium) / Physique médicale ACP-OCPM (Symposium DPMB)

Underline Conference System

Monday 7 June

13:30

TS-6-2 CAP-COMP Medical Physics (DPMB Symposium) / Physique médicale ACP-OCPM (Symposium DPMB)

Session | **Location:** Underline Conference System | **Convener:** Cornelia Hoehr

13:30-14:00

(I) A Generalizable and Efficient Deep Learning Algorithm for Automatic Prostate Segmentation in 3D Ultrasound

Speaker

Nathan Orlando

14:00-14:05

Optical fibers as dosimeter detector for proton/neutron fields - a biological dosimeter

Speaker

Ms Jana Niedermeier

14:05-14:10

(G*) Three-dimensional tumor spheroids as a tool to optimize the nano-bio interface

Speaker

Kyle Bromma

14:10-14:15

Combining gold nanoparticles with other radiosensitizers for unlocking the full potential of cancer radiotherapy

Speaker

Devika Chithrani

14:15-14:45

(I) Use of Light Absorbing Polymers for Quantitative Measure of Ionizing Radiation Dose: Challenges and Opportunities

Speaker

Dr Alexandra Rink

14:45-14:50

Evaluating Machine Learning Models in Predicting the Dose Distribution Index in Radiation Treatment Planning QA

Speaker

Dr James Chow

14:50-14:55

An AI-assisted Chatbot for Education in Radiotherapy

Speaker

Dr James Chow

14:55-15:00

(G*) Characterization of modified radiochromic materials for measuring ionizing radiation

Speaker

Rohith Kaiyum

15:15

15:00–15:15

TS-6-2 Break (15 minutes)