

## **MPU SEMINAR SERIES: 2021-2022**

### **Fall 2021**

**September 03 : Academic, clinical, radiation safety faculty** (MPU, McGill U / MUHC)

*Academic, clinical & radiation safety overview*

**September 10 : Academic Principal Investigators** (Medical Physics, MUHC / Radiation Oncology, SMBD-JGH)

*Medical Physics & Radiation Oncology research projects overview*

**October 01 : James Renaud** (Ionizing Radiation Standards, National Research Council, Ottawa, Ontario)

*Establishing a primary radioactive gas standard in Canada: Length-compensated internal gas counting*

**October 08 : Mark Lubberink** (Uppsala University, Uppsala, Sweden)

*Clinical implementation of quantitative PET methods*

**October 15 : Mirta Dumancic** (Ben Gurion University of the Negev, Beer-Sheva, Israel)

*A new DaRT game: Modeling and parameter measurements in Diffusing Alpha-emitters Radiation Therapy*

**October 22 : Aimee McNamara** (Harvard Medical School & Massachusetts General Hospital, Boston, Mass.)

*Towards full mechanistic modeling of the response of tissue to radiation*

**November 05 : Cheryl Duzenli** (Medical Physics, BC Cancer, Vancouver, British Columbia)

*Developing of a carbon-fibre breast positioning/support device to reduce toxicity in breast radiotherapy*

**November 12 : Antonia Dimitrakopoulos-Strauss** (Director – PET-CT Unit, Deputy Head Clinical Cooperation

Unit Nuclear Medicine, German Cancer Research Centre [DKFZ], Heidelberg, Germany)

*Immunotherapy monitoring with PET-CT in cancer patients*

**December 10 : Julia Publicover** (Quantitative Imaging for Personalized Cancer Medicine [QIPCM], Techna

Institute, University Health Network, Toronto, Ontario)

*UHN molecular imaging & theranostics pipeline*

**Ivan Leung** (Associate Head, Department of Medical Physics, Princess Margaret Hospital,

Toronto, Ontario)

*Multi-centre phantom study in reproducibility of PET radiomic features*

**December 17 : Sarah McKenney** (Diagnostic Medical Physics, Stanford University / Lead Physicist,

Lucile Packard Children's Hospital Stanford, Palo Alto, California)

*Multi-institution consensus for portable chest radiographs through glass barriers*

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## Winter 2022

- January 07 : Rebecca Howell** (U Texas M.D. Anderson Cancer Centre, Houston, Texas)  
*Treatment-related cardiovascular disease in childhood cancer survivors*
- January 14 : Allison Toltz** (U College London Hospitals NHS Foundation Trust, London, United Kingdom)  
*A sweet ride on the clinical train: Commissioning a proton therapy center*
- January 21 : Various faculty** (MPU, McGill U / MUHC)  
*MSc projects pitch to first-year students*
- February 04 : Jeremy Hoisak** (Radiation Medicine & Applied Sciences, University of California-San Diego, San Diego, California)  
*Current clinical practice and future development in surface-guided radiation therapy*
- February 11 : Christopher Rowley** (Montreal Neurological Institute, Montreal, Quebec)  
*Intracortical MR signal as a marker for microstructural changes*
- February 18 : Marlene Kontcho** (Chalk River Nuclear Laboratories, Chalk River, Ontario)  
*Investigating the Oxygen Effect on the Irradiation of Lens Epithelial Cells:  
Role in Cataract Formation*
- March 18 : Richard Richardson** (Chalk River Nuclear Laboratories, Chalk River, Ontario)  
*The Uniqueness of the Multistage-senescence Model of Carcinogenesis and its Potential  
Application to Radiation-induced Cancers*
- April 01 : Kyle O'Grady** (Memorial Sloan Kettering Cancer Centre, New York, New York)  
*In-house breast planning automation at Memorial Sloan Kettering Cancer Centre  
(also, my residency experiences as a Master's physicist in the US)*
- April 08 : Marianne Aznar** (University of Manchester & Christie NHS Foundation Trust, United Kingdom)  
*Big data for small patients: Modelling of late effects after radiotherapy for childhood cancer*
- April 22 : Guillaume Landry** (University Hospital of the Ludwig-Maximilians-Universität, Munich, Germany)  
*Artificial intelligence in the radiotherapy workflow*
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## Summer 2022

**May 13 : Arthur Lalonde** (Massachusetts General Hospital & Harvard Medical School, Boston, Massachusetts)

*Toward online adaptive proton therapy using cone-beam CT data: Feasibility and impact in head and neck patients*

**May 20 : Keara Boss** (Environmental & Radiological Health Sciences, Colorado State University)

*Canine translational models for radiation research*

**June 03 : Shirin Enger** (Radiation Oncology & Medical Physics, McGill University, Montreal, Québec)

*MPU - Mission, vision and values in the future*

**June 10 : John Kildea** (Radiation Oncology & Medical Physics, McGill University, Montreal, Québec)

*Looking back and forward: The rich history & bright future of Medical Physics*

For questions regarding the MPU Noon Seminars Series, please contact:

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