

MPU SEMINAR SERIES : 2016-2017

Fall 2016

- September 02 : Charles-Antoine Collins-Fekete** (CHUQ / Univ Laval / Harvard-MGH)
From Fermi diffusion equation to hadron imaging: Applications to proton therapy
- September 09 : Kevin Alexander** (Queen's University, Kingston, Ontario)
Clinical implementation of film & gel dosimetry
- September 18 : Avishek Chatterjee** (University of Geneva, Geneva, Switzerland)
Searching for new physics using the ATLAS detector at the Large Hadron Collider
- October 21 : Richard Richardson** (Canadian Nuclear Laboratories, Deep River, ON)
*Mitochondrial stress controls the radiosensitivity of the oxygen effect:
Implications for radiotherapy*
- October 28 : Angelica Perez-Andujar** (University of California-San Francisco, San Francisco, CA)
Advances in stereotactic treatments of multiple brain metastases
- November 04 : Louis-Martin Rousseau & Mehdi Mahnam** (École Polytechnique, Montréal, QC)
*A column-and-row generation heuristic to Volumetric-modulated Arc Therapy (VMAT)
treatment planning problem*
- November 25 : Juliette Selb** (Biomedical Imaging, Massachusetts General Hospital, Boston, MA)
*Diffuse optical imaging of the brain: Applications to functional imaging and
clinical neuro-monitoring*
- December 16 : James Coates** (Oncology, University of Oxford, Oxford, England)
*The anti-malarial drug atovaquone alleviates tumor hypoxia and improves
radiosensitivity "in vivo"*
- December 16 : Ivan Buzurovic** (Harvard Medical School, Boston, MA)
Redefinition of treatment planning in brachytherapy procedures
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Winter 2017

- February 03 : Paul François** (Physics, McGill University, Montreal, QC)
Immune recognition, phenotypic spandrel and machine learning
- March 10 : Phil Gold** (Medicine, Montreal General Hospital, Montreal, QC)
Cancer immunology: 'Of mice and men'
- March 31 : Tom Purdie** (Ontario Institute of Technology, Oshawa, ON)
Automated treatment planning and quality assurance in radiotherapy
- April 07 : Kari Tanderup** (Aarhus University Hospital, Aarhus, Denmark)
*The EMBRACE studies in cervix cancer: A model for future multidimensional studies
in radiation oncology*
- April 28 : Tony Waker** (Ontario Institute of Technology, Oshawa, ON)
Three and a half conversations about one thing: Experimental dosimetry
- May 19 : Panagiotis Papadimitroulas** (BET Solutions, Athens, Greece)
Moving to personalized nuclear medicine: An "in silico" perspective
- May 26 : Jamie Near** (Robarts Research Institute, Western University, London, ON)
*Dynamic measures of brain chemistry and metabolism using "in vivo"
magnetic resonance spectroscopy*
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