



**Department of Oncology**  
**2021 Summer Student Presentations**  
August 6th - 16th, 11:30am - 1:00pm

**Friday, August 6**

- 11:30am Angie Chen**  
Supervisor: Dr. Kristi Baker  
**Title: Mitochondrial DNA Activation of cGAS in Colorectal Cancer Subtypes**
- 11:45am Sargun Sokhi**  
Supervisor: Dr. Gordon Chan  
**Title: Investigating the role of Myt1 overexpression in promoting resistance to DNA damage checkpoint inhibitors**
- 12:00pm Julia Nickols**  
Supervisor: Dr. Armin Gamper  
**Title: The human kinase Myt1 in intracellular lipid droplets**
- 12:15pm Nathaniel Bly**  
Supervisor: Dr. Atiyah Yahya  
**Title: Fat unsaturation measures with Magnetic Resonance Spectroscopy**
- 12:30pm**

**Monday, August 9**

- Caitlin Mak**  
Supervisor: Dr. Roseline Godbout  
**Title: FABP7 mediates GAP-43 phosphorylation in GBM cells**
- Jerome Bartolome**  
Supervisor: Dr. Armin Gamper  
**Title: Radiosensitizers for Cervical Cancer Brachytherapy**
- Heidi Nwosu**  
Supervisor: Dr. Kristi Baker  
**Title: Investigating how Fusobacterium nucleatum differentially Regulates the Wnt/ B-catenin pathway in colorectal cancer subtypes**
- Cassandra Ganje**  
Supervisor: Dr. Ismail Ismail  
**Title: The Role of PNKP in Protecting Stalled Replication Forks During Replication Stress**
- Tony Yu**  
Supervisor: Dr. Michael Weinfeld  
**Title: Oxidative DNA damage from PNKP depletion activates type I IFN pathway**

**Wednesday, August 11**

- Leo Remillard**  
Supervisor: Dr. Nick De Zanche  
**Title: Metamaterial Lens for Enhancement of MRI Receive Coil Detector Arrays**
- Justin Knechtel**  
Supervisor: Dr. Alan Underhill  
**Title: Mapping determinants of KMT5C heterochromatin retention**
- Andy Cheng**  
Supervisor: Dr. Frank Wuest  
**Title: Identifying solute carriers responsible for cancer cell ketone metabolism**
- Travis Kronemann**  
Supervisor: Dr. Ralf Schirmacher  
**Title: Synthesis of an F-18 labeled heparanase targeting radiotracer for the imaging of angiogenesis and metastasis in tumor progression via PET**

Webinar link: <https://ualberta-ca.zoom.us/j/96242470913>

Meeting ID: 962 4247 0913

Dial-in: +1 438 809 7799  
+1 587 328 1099





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**Friday, August 13**

- 11:30am Caroline Tran**  
Supervisor: Dr. Ismail Ismail  
**Title: DNA damage mediates RNF138 ubiquitylation**
- 11:45am Yousef Darwish**  
Supervisor: Dr. Armin Gamper  
**Title: The Senolytic Effect of Wee1 and ATR inhibitors**
- 12:00pm Patricia Oliva**  
Supervisor: Dr. Atiyah Yahya  
**Title: Implementing Diffusion Weighting into a Magnetic Resonance Spectroscopy Sequence**
- 12:15pm Mariko Gardiner**  
Supervisor: Dr. Nick De Zanche  
**Title: Magnetic Resonance Imaging Phantoms for Cancer Research and Therapy**
- 12:30pm Jana Ali**  
Supervisor: Dr. Ismail Ismail  
**Title: Regulation of RNF138 function in DNA repair**

**Monday, August 16**

- Jasmine Dhatt**  
Supervisor: Dr. Kristi Baker  
**Title: The Effect of Short Chain Fatty Acids on Colorectal Cancer Cells**
- Jayadeep Rao**  
Supervisor: Dr. Gordon Chan  
**Title: Fluorescence tagging of subcellular markers for live cell Imaging - safe harbor loci & CRISPR/Cas9 genome editing**
- Natnael Abate**  
Supervisor: Dr. Michael Hendzel  
**Title: Mechanism of Repair and Radio-sensitivity to DNA Double Strand Breaks**
- Rui Zhe (Rachel) Yang**  
Supervisor: Dr. YangXin Fu  
**Title: The Role of NSUN5 Methyltransferase in the Protein Synthesis of Human Embryonic Kidney Cells.**
- Manav Batta**  
Supervisor: Dr. Armin Gamper  
**Title: The Dynamics of Cellular ATM Localization following Cellular Stress**

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