2018-2019 SCHOLAR PROJECTS

Name	Project Title	Category	Mentor
Sujun Chen	Investigation of circRNA in cancer	MSc	Dr. Housheng Hansen He
Lisa Decotret	The role of protein tyrosine phosphatase alpha (PTP) in radiation induced glioblastoma invasion	PhD	Drs. Kevin Bennewith & Catherine J. Pallen
Valentin Demidov	Shedding light on radiotherapy": quantifying early tumor radiobiological response with microvascular optical coherence tomography	PhD	Dr. Alex Vitkin
Dana Keilty	Radiomics Signature to Predict Response and Outcome after Neoadjuvant Chemotherapy, Surgery and Radiotherapy for Breast Cancer	PGY2	Drs. Kathy Han & Tom Purdie
Jennifer Kwan	Targeting metabolic dysregulation for lymphedema treatment	PhD (PGY4)	Dr. Fei-Fei Liu
Fabio Moraes	The role of DNA Methylation in the Development of Brain Metastases from Renal Cell Carcinoma	Clinical Fellow	Drs. David Shultz & Paul Kongkham
Ryota Nakashima	Radiation-induced neutrophil extracellular traps (NETs): a possible mechanism to promote cancer metastasis	PDF	Dr. Scott Bratman
Armen Parsyan	Anti-Cancer Effects of Radiation Combined with PLK4 and TTK Inhibitors in Triple Negative Breast Cancer (TNBC)	Clinical Fellow	Drs. Tak W. Mak & David Cescon
Parasvi Patel	Homologous recombination-deficient tumors rely on RNF168-mediated double-strand break repair	PhD	Dr. Razq Hakem
Mary Shi	Identification of novel radiosensitizers with an EpiDrug CRISPR screen in small-cell lung cancer	MSc	Dr. Benjamin Lok

ALUMNI

Noor Alsaden	Development of PET imaging probes for predicting and monitoring response of cancer to antibody-drug conjugates (ADC) and PDL-1/PD-1 immunotherapies.	PhD	Dr. Ray Reilly
Justin Burgener	Utilization of Circulating Tumour DNA Methylation Patterns to assess Tumour Hypoxia and Response to Therapy	PhD	Drs. Scott Bratman & Daniel DeCarvalho
Brittany Epp-Ducharme	Heat-Activated Liposomal Delivery of Chemo and Molecular Therapy in Combination with Radiotherapy for Treatment of Breast Cancer Recurrence at the Chest Wall	MSc	Dr. Christine Allen
Jennifer Gotwald	Physics-based Scatter Correction for Quantitative PET Imaging of Hypoxia	PhD	Dr. David Jaffray
Kiran Kumar Naidu	Identifying therapeutic strategies targeting RNF8 associated cancer	PostDoc Fellow	Dr. Razq Hakem
Hedi Mohseni	Improving the Sensitivity of Perfusion CT through Stoichiometric Calibration Using a Dual Energy CT Scanner	PostDoc Fellow	Dr. Catherine Coolens
Michele Olivieri	CRISPR/Cas9-mediated screen to identify radiation resistance genes in solid tumors	PhD	Dr. Daniel Durocher
Pamela Psarianos	Epigenetic Regulation of Metabolism in the Reversal of Radiation Fibrosis	MSc	Dr. Fei-Fei Liu
Faisal Rashad	Evaluation of Radiosensitization Potential of 2-nitroimidazole Hypoxia Radiotracers Iodoazomycin Arabinoside (IAZA) and Fluoroazomycin Arabinoside (FAZA	PhD	Drs. Piyush Kumar & Michael Weinfeld
Cornelia Redel	Investigation of the cooperation of epigenetic regulators with MYC to therapeutically target MYC-dependent target gene expression	PhD	Dr. Linda Penn
Alexandre Rouette	Identification of heritable genomic variants associated with poor clinical outcome and radiotherapy resistance in localised prostate cancer.	PostDoc Fellow	Dr. Paul Boutros
Michael Tjong	Automated and standardized quality planning for prostate cancer radiotherapy	PGY2	Drs. Alejandro Berlin & Tom Purdie
Mattea Welch	MR Based Volumentric Dosimetry for MR Guided Radiotherapy	PhD	Dr. David Jaffray
Fan Xia	Investigation of Novel Mitochondrial DNA Maintenance Factors Revealed from a CRISPR/Cas9 Genomic Screen	PhD	Prof. Shana Kelley