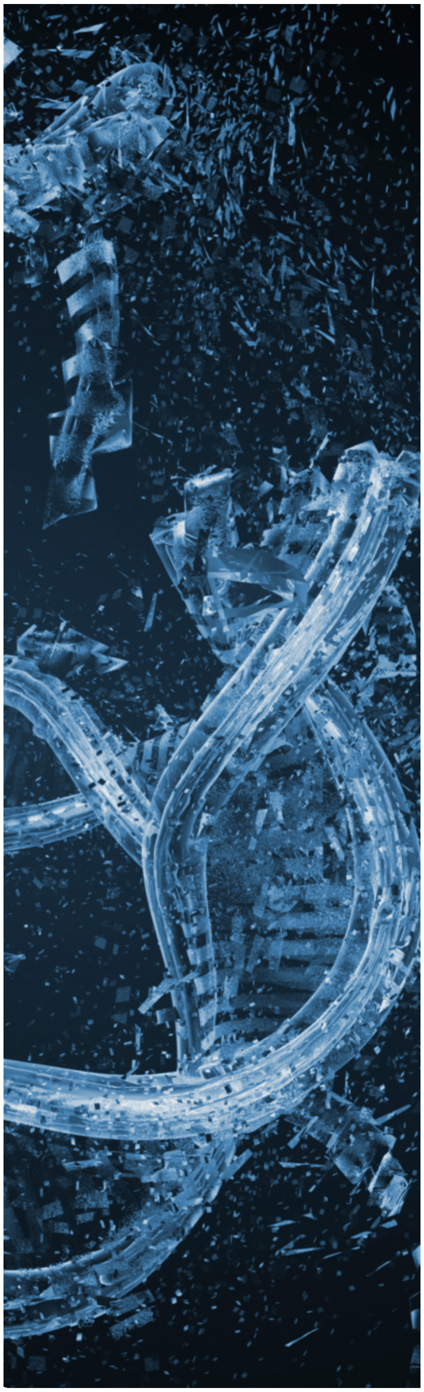
DIVISION OF MEDICAL SCIENCES

SEMINAR SERIES



Post-Transcriptional Regulation of the p53 Response

Dr. Bruce McKay

Carleton University

Tuesday, November 12, 2019
12:00 p.m. – 1:00 p.m.

The p53 tumour suppressor is among the most commonly altered proteins in cancer. This protein is a transcription factor that responds to a variety of cellular stresses and regulates a large number of both coding and non-coding genes. These p53-dependent changes in gene expression are among the most consistent and prominent alterations induced by therapeutically relevant agents like radiation. This presentation will discuss the recent work focused on understanding how the p53 response is modulated post-transcriptionally by microRNAs and other mechanisms to fine-tune DNA damage responses. Additional discussion will focus on pilot experiments examining changes in gene expression in tissues from acute myeloid leukemia patients undergoing total body radiation as conditioning for allogeneic stem cell transplantation.

Northern Ontario School of Medicine
École de médecine du Nord de l'Ontario

NOSM at Lakehead University – ATAC 6022
NOSM at Laurentian University – MSE 215

Lunch will be provided.