HSCI RESEARCH SEMINAR SERIES
SCHOOL OF HEALTH SCIENCES

HSCI696 will be presented synchronously through simulcast. The link below can be used for the live stream. Authentication is not required.

RHPH 172 Live Stream

“Validation of Animal Models of Radiation Induced Brain Injury”

Carlos J. Pérez-Torres, PhD
Assistant Professor of Radiological Health Sciences

Tuesday, October 13, 2020
RHPH 172
4:30-5:30 PM

Summary: Radiation-induced brain injury is a major concern for survivors of intracranial neoplasms. There are two major forms of radiation-induced brain injury with distinct symptoms and radiological characteristics. There is a diffuse injury which is restricted to the white matter and leads to cognitive impairment and a focal injury that resembles tumor recurrence radiologically and in symptoms. Therapeutic approaches and understanding of the mechanism of injury is limited necessitating the use of models to gain further insights into the condition. This talk will focus on considerations for generating mouse and pig models of radiation-induced brain injury. I will present data on the dose response of the mouse and pig brain to radiation and how we approach these models to establish accuracy to the clinical scenario.