



Dartmouth
Health

Dartmouth Cancer Center
NORRIS COTTON CANCER CARE PAVILION
DARTMOUTH HITCHCOCK MEDICAL CENTER

Radiation Oncology Research Retreat
Saturday May 4, 2024, 7:30 a.m.-12:00 p.m.
Auditorium F, DHMC (WebEx optional)

Applied Medical Physics

Benchmarking Radiomic Features using Simulated Liver Lesions – Shrey S. Sukhadia, Abdibaset A. Bare & Marthony L. Robins

Cherenkov Imaged Bio-morphological Features Verify Patient Positioning with Deformable Tissue Translocation in Breast Radiotherapy – Yao Chen

UHDR Beamline Tools for FLASH-RT Research – Austin Sloop

Break (5 minutes)

Health Services & Policy Research

Funded Radiation Oncology Visiting Medical Student Electives: A Cross-Sectional Analysis – Alexys Gayne, BS & Colin McNamara, AB, FNP

Disparities in access to multidisciplinary cancer consultations and treatment for early-stage NSCLC patients: A SEER-Medicare analysis. – Erika Moen MS, PhD

Break (5 minutes)

Clinical and Translational Research

Leveraging transcriptomics in clinical oncology: Towards genomic radiotherapy dose-adjustment – Drew T. Bergman, BA

How AI and interpretable mathematical modelling will finally enable the promise of precision medicine - Simone Korsgaard Jensen

Machine Learning based Delivery accuracy predicting in Pencil Beam Scanning Proton Therapy – Ilakiya Raghavendiran

Revisiting a Comparative Analysis of Persistent Homology and Classic Radiomic Features/Exploring Radiomic Integration in Clinical Predictive Modeling for HCC – Jalen Crump



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