

RADIATION ONCOLOGY/ CRR RESEARCH RETREAT- HICCC Auditorium

Friday, November 5th, 2021

8:30 a.m. to 4:30 p.m.

TIME	SPEAKER	PRESENTATION
8:30 - 8:35	Dr. Tom Hei	Welcome
8:35- 8:50	Dr. Lisa Kachnic	Opening Remark
8:50- 9:20		Keynote Lecture 1: Dr. Peter Sims <i>Single Cell Analysis of Differentiation and Drug Response in Malignant Brain Tumors</i> Chair: Dr. Sally Amundson
Session 1: Novel Developments in Radiation Therapy / Radiobiology Chair: Drs. Israel Deutsch and Helen Turner		
9:20- 9:45	Dr. Michael Price	<i>Adaptive Radiotherapy at Columbia</i>
9:45-10:00	Dr. Matthew Garrett	<i>Adaptive IMRT Planning for Management of cervical cancer</i>
10:00-10:15	Dr. Kareem Rayn	<i>Trigger-based Adaptive Planning to Reduce Bowel Dose in Anal Cancer Treatment</i>
10:15- 10:35		Break and Poster Viewing
10:35- 11:05	Dr. Manuela Buonanno	<i>FLASH Radiation: Mechanism and Future Prospective</i>
11:05-11:30	Dr. Fred Wu	<i>FUS: Clinical Trial in Pediatric Brain Tumor at Columbia</i>
11:30- 12:00		Keynote Lecture 2: Dr. Donna Farber <i>Human Immune Responses in tissues</i> Chair: Dr. Howard Lieberman
12:00-1:00 pm		Lunch and Poster Viewing Session
Session 2: Targeted Therapy and Modulations of Treatment Outcome Chair: Drs. Eileen Connolly and Peter Grabham		
1:00- 1:30	Dr. Adam Bass	<i>Genome and Biology and the Emergence of Gastroesophageal Cancer</i>
1:30- 1:55	Dr. Simon Cheng	<i>Ferroptosis in Esophageal Cancer</i>
1:55-2:20	Dr. Tony Wang	<i>Immunotherapy and Targeted Therapy for Glioblastomas: Current and Future Clinical Trials</i>
2:20-2:35	Dr. Brian Ponnaiya	<i>LET-Dependence of Radiation-Induced Distal Response in Cancer Cells</i>
2:35-2:50	Dr. Kunal Chaudhary	<i>Serine Hydroxymethyltransferase 2 in Chemoradiation Resistance in Lung Cancer Cells</i>
2:50-3:05		Break and Poster Viewing
Session 3: Topical Issues and Short Poster Presentations Chair: Drs. Shanaz Gandhi and Guy Garty		
3:05-3:20	Dr. Tom Hei	<i>Proposed Change in NASA Radiation Exposure Limit Is a Bad Idea</i>
3:20-3:35	Dr. David Horowitz	<i>Adjuvant Chemoradiation For Extrahepatic Cholangiocarcinoma And Gallbladder Cancer</i>
3:35-3:50	Dr. Aquino de Muro	<i>DNA Photodynamic Action Spectrum From Narrow Bandwidth UVC</i>
3:50-3:55	Dr. Hong-Jian Wei	<i>FUS-Mediated BBB Opening Enhanced Panobinostat Efficiency in Murine Diffuse Intrinsic Pointine Glioma Model</i>
3:55-4:00	Dr. David Welch	<i>Inactivation of Aerosolized Human COVID Using Far UVC Radiation at Realistic Dose</i>
4:00-4:05	Dr. Constantinos Broustas	<i>Use of p38 MAK Signaling Cascade on Radiation Biodosimetry</i>
4:05-4:10	Dr. Fiona Li	<i>MR-based Synthetic CT for Gamma Knife Dose Calculation</i>
4:10- 4:30		General Discussion and Closing Chair: Drs. Tom Hei and Lisa Kachnic

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POSTER VIEWING

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Presenter	TITLE
Dr. Connor Kinslow	<i>Risk of Anaplastic Large Cell Lymphoma after Post-Mastectomy Implant-Reconstruction for Breast Cancer</i> Connor Kinslow, Pallavi Krishnamurthy, Gloria Sanchez, Tony Wang, Simon Cheng, Lisa Kachnic, David Horowitz
Dr. Hong-Jian Wei	<i>Focused Ultrasound-mediated Blood-Brain Barrier Opening Enhances Panobinostat Efficacy in a Murine Diffuse Intrinsic Pontine Glioma Model</i> Hong-Jian Wei, Antonios Pouliopoulos, Nina Yoh, Masih Tazhibi, Nicholas McQuillan, Xu Zhang, Luca Szalontay, Robyn Gartrell, Pavisic Jovana, Zhiguo Zhang, Neil Feldstein, Stergios Zacharoulis, Elisa Konofagou, Cheng-Chia Wu
Dr. Fiona Li	Implementation of MR-based Synthetic CT for Gamma Knife Stereotactic Radiosurgery Dose Calculation Fiona Li, Yuanguang Xu, Olga Maria Lemus, Tony Wang, Michael Sisti, Cheng-Shie Wu
Dr. Naresh Deoli	<i>Optimization of Ion Source Parameters for Production and Acceleration of Heavy Ions at the Radiological Research Accelerator Facility</i> Naresh Deoli, Andrew Hawkin, Guy Garty and David Brenner
Dr. Helen Turner	<i>Cytogenetic Damage of Human Lymphocytes in Humanized Mice Exposed to Neutrons and X-rays</i> Helen Turner, Qi Wang, Yoon Lee, Monica Pujol-Canadell, Jay Perrier, Lubomir Smilenov, Andrew Harken, Guy Garty, David Brenner, Brian Ponnaiya
Dr. Bezalel Bacon	<i>Predicting Breast Cancer Risk by DNA Repair Capacity: An Imaging Flow Cytometry Technology Approach</i> Bezalel Bacon, Mikhail Repin, Igor Shuryak, Hui-Chen Wu, Regina Santella, Mary Beth Terry, David Brenner and Helen Turner
Dr. David Welch	<i>Inactivation of Aerosolized Human Coronavirus OC43 Using 222 nm Far-UVC Radiation at Realistic Doses</i> David Welch, Manuela Buonanno, Buchan A, Yang L, Atkinson KD, Igor Shuryak and David Brenner
Dr. Constantinos Broustas	<i>Effect of the p38 Mitogen-Activated Protein Kinase Signaling Cascade on Radiation Biodosimetry</i> Constantinos Broustas, Sanjay Mukherjee, Evan Pannkuk, Evagelia Laiakis, Albert Fornace Jr and Sally Amundson