



Cancer Research Institute of Northern Alberta presents
CRINA RESEARCH DAY 2022
Tuesday, October 18

SCHEDULE

8:15 - 8:45 AM REGISTRATION

Lister Centre

8:45 - 9:00 AM WELCOME

Hanne Ostergaard (CRINA Director) & Richard Lehner (Vice Dean Research, FoMD)
Maple Leaf Room 2-050

9:00 - 10:00 AM INVESTIGATOR INITIATED TRIALS AT THE CROSS CANCER INSTITUTE

Maple Leaf Room 2-050
Chair: Hanne Ostergaard

9:00-9:15: "Investigator Initiated Trials Program" - Presented by Randeep Sangha

9:15-9:30: "The LATENT trial: Lytic Activation To Enhance Neoantigen-directed Therapy" - Presented by John Walker

9:30-9:45: "Multimodal Intervention for Cachexia in Advanced Cancer Patients Undergoing Chemotherapy (MENAC)" - Presented by Vickie Baracos

9:45-10:00: "PREMIUM Prevention of Metabolic Syndrome and Increased Weight Using Metformin Concurrent to Androgen Deprivation Therapy and Radiotherapy for High Risk Adenocarcinoma of the Prostate" - Presented by Nawaid Usmani

10:00-10:15 AM BREAK

10:15-10:30 AM TRAINEE ANNOUNCEMENT & POSTER PITCHES

Maple Leaf Room 2-050

10:30 AM - 12:00 PM CONCURRENT TRAINEE ORAL PRESENTATIONS

Session 1 - Alberta Room 1-003

Chairs: Lesley Mitchell & Ghada Aborkhees

10:30-10:40: "Effects of exercise on motivational outcomes in rectal cancer patients during and after neoadjuvant chemoradiation: a phase II randomized controlled trial" - Presented by Fernanda Z. Arthuso

10:40-10:50: "Total 24-hour Energy Expenditure Assessed by Calorimetry Chamber in Patients with Colorectal Cancer" - Presented by Katherine L Ford

10:50-11:00: "The Feasibility and Acceptability of a Virtually-Supported Home Exercise Program for People with Multiple Myeloma" - Presented by Graeme M. Purdy

11:00-11:10: "Predictors of Technology Training Time for Cancer, Lung Disease and Lung and Liver Transplant Patients accessing a 12-Week virtual exercise and nutrition program: Heal-Me TeCH Study" - Presented by Kirsten Suderman

11:10-11:20: "Venous thromboembolism after minimally invasive surgery in gynecologic oncology" - Presented by Kara Terry

11:20-11:30: "Polymorphisms at the TLR4 promoter decrease susceptibility to cisplatin-induced hearing loss in cancer patients" - Presented by Asna Latif

11:30-11:40: "Evaluation of the biodistribution of small interfering RNAs using lipid-substituted polyethylenimine-based delivery systems" - Presented by Luis C. Morales

11:40-11:50: "Elucidating a novel regulatory mechanism of breast cancer metastasis - BAD at the mitochondria" - Presented by Leila Pirayeshfard

11:50-12:00: "Mechanisms governing the accessibility of DNA damage proteins to constitutive heterochromatin" - Presented by Anastasia Roemer

10:30 AM - 12:00 PM CONCURRENT TRAINEE ORAL PRESENTATIONS CONTINUED

Session 2 - Maple Leaf Room 2-050

Chairs: Vickie Baracos & Andrew Locke

10:30-10:40: "Genomic instability and DNA damage regulate STING activation through characteristic cytosolic DNA structures in colorectal cancer" - Presented by Shayla Mosley

10:40-10:50: "Loss of PNKP potentiates type-I IFN response via ROS-induced damage to DNA" - Presented by Wisdom Kate

10:50-11:00: "High yield cyclotron production of ²⁰³Pb for diagnostic SPECT imaging alongside ²¹²Pb targeted radionuclide therapy" - Presented by Bryce Nelson

11:00-11:10: "Site-specific radiofluorination of peptides and proteins via chemoselective S-arylation with [18F]4-fluoriodobenzene" - Presented by Felix Francis

11:10-11:20: "DEAD Box 1 (DDX1) protects its RNA targets in cells exposed to oxidative stress" - Presented by Mansi Garg

11:20-11:30: "The application of the SORE6 reporter in the studies of acute myeloid leukemia - a novel model for disease relapses" - Presented by Justine Lai

11:30-11:40: "Genetic alterations induced by sublethal apoptosis" - Presented by Tomás Gutiérrez

11:40-11:50: "Radiosynthesis of [18F]fluorine-containing small molecular weight HIF-1 alpha binding compounds and their radiopharmacological analysis" - Presented by Jenilee D. Woodfield

11:50-12:00: "N-myristoylation inhibition reduces angiogenesis and cancer cell migration" - Presented by Rony Pain

Session 3 - Aurora Room 2-051

Chairs: Carlos Velazquez & Nasim Sarrami

10:30-10:40: "Deep learning-based autocontouring algorithm for non-invasive intrafractional tumour-tracked radiotherapy (nifteRT) on Linac-MR" - Presented by Gawon Han

10:40-10:50: "The Appraisal of Clinical Practice Guidelines for Breast Cancer Related Lymphedema" - Presented by Naomi Dolgoy

10:50-11:00: "Efficient Delivery of MLL-AF4 siRNA by PEI-Lipid Reduces the Growth of Acute Lymphoblastic Leukemia Cells" - Presented by Mohammad Nasrullah

11:00-11:10: "Investigating Wee1 and Myt1 combined inhibition as a potential cancer therapeutic strategy" - Presented by Sargun Sokhi

11:10-11:20: "Improving Neural Networks for Tumour Motion Forecasting" - Presented by Neil Johnson

11:20-11:30: "Studying the interactions of SHP-2 Allosteric Inhibitors: Comparing the Wildtype SHP2 to Activating Mutant SHP-2" - Presented by Maryam Jama

11:30-11:40: "Assessment of Chemotherapy-mediated Cardiotoxicity in the DHA WIN breast cancer trial" - Jaqueline Munhoz

11:40-11:50: "Targeting autotaxin with IOA-289 inhibited breast tumor growth in C57BL/6 mice" - Presented by Xiaoyun Tang

11:50-12:00: "The lysomotropic agent siramesine induces cell death in prostate cancer cells and synergizes with the tyrosine kinase inhibitor lapatinib" - Presented by Ilsa Bhatti

12:00 - 1:00 PM LUNCH

1:00 - 2:40 PM PRINCIPAL INVESTIGATOR PRESENTATIONS

Session A - Maple Leaf Room 2-050

Chair: Carlos Velazquez

"Can artificial intelligence help with cancer research?" - Presented by Xingyu Li

"Learning Individual Survival Models from PanCancer Whole Transcriptome Data – A Step Towards Personalized Medicine" - Presented by Russ Greiner/Neeraj Kumar

"Genetically encoded chemistry for drug discovery" - Presented by Ratmir Derda

"PARP2 has a role in homologous recombination repair" - Presented by Michael Hendzel

"Overturning the paradigm: miRNA regulation of sialylation" - Presented by Lara Mahal

Session B - Aurora Room 2-051

Chair: Catherine Field

"STING and NLRP3 cooperatively regulate antitumor immunity in colorectal cancer" - Presented by Kris Baker

"Endometrial cancer and obesity in the era of personalized medicine" - Presented by Christa Aubrey

"Development of preclinical models of aggressive gynecological cancer - lessons learned and insights gained" - Presented by Cheng-Han Lee

"The Alberta linac MR for precision and accurate radiation medicine" - Presented by Gino Fallone

"Mechanistic insights into mechanisms of replication fork protection in response to chemotherapeutic drugs" - Presented by Ismail Ismail

2:40 - 3:00 PM BREAK

3:00 - 5:00 PM POSTER PRESENTATIONS

Prairie and Glacier Rooms

4:00 PM REFRESHMENTS AND BAR SERVICE

5:00 PM WRAP UP AND AWARD PRESENTATIONS

Maple Leaf Room 2-050

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