

Program Agenda

Time	Session	Speakers	
8:30 – 9:00	Registration (30 mins)	N/A	
9:00 – 9:15	<div>Cody Hall</div> Land Acknowledgement + Welcome Remarks	Laura Dawson, UTDRO Chair Anne Koch/Shane Harding, Co-Directors of STARS21	
<div>Cody Hall</div> <div>Oral Presentations 1 (5 mins talk + 2 mins Q&A)</div> <div>Judges: Anne Koch, Benjamin Lok</div> <div>Moderator: Scott Bratman</div>			
Oral# & Time	Title	Presenters	
#O1-O6 9:15 – 9:57	Identifying Intermediate-Risk Prostate Cancer Patients Appropriate for Active Surveillance using Recursive Partitioning Analysis and Long-Term Follow-Up #O1	Ruben Del Castillo, Radiation Oncology Fellow Supervisor: Andrew Loblaw	
	Cognitive Outcomes Following Proton VS Photon Radiotherapy for CNS Non-Germinomatous Germ Cell Tumors: A Children's Oncology Group Study #O2	David Mak, Radiation Oncology Resident Supervisor: Derek Tsang	
	Efficacy of ¹⁷⁷ Lu-DOTATATE in Neuroendocrine Cancer of the Cervix Resistant to Conventional Systemic Therapies #O3	Ibrahim Alrekhais, Radiation Oncology Fellow Supervisor: Rebecca Wong	
	MRI-Guided Interstitial Brachytherapy for Vaginal Recurrence of Endometrial Cancer Using 2 VS 3 or More Fractions #O4	Juliet Maina, Radiation Oncology Fellow Supervisor: Kathy Han	
	Toxicity and Survival Following Lung Radiotherapy in Patients with Interstitial Lung Abnormalities and Interstitial Lung Disease #O5	Sarah Bowen Jones, STARS21 Scholar Supervisor: Faivre-Finn	
	Dosimetric Impact of Excluding Internal Mammary Node Coverage on Musculoskeletal Tissues in Breast Radiotherapy #O6	Antonio Diego de la Pena Villarreal, Radiation Oncology Fellow Supervisor: Fei-Fei Liu	
<div>Poster Discussion 1 (3 mins talk + 2 mins Q&A)</div>			
Poster# & Time	Title, Screen # – Poster #	Presenters	Judges
Session 1.1 #P1-6 10:00 – 10:05	Beam Characteristics of a Proposed Dielectric Wall Proton Accelerator Design S1 – #P1	Chau Giang Bui, Graduate Student Supervisor: Jan Seuntjens	Jay Detsky Scott Bratman
	Outcomes and Toxicities Following Conventional Radiation Therapy for Pituitary Neuroendocrine Tumours (PitNETs) S2 – #P2	Inhwa Kim (present on behalf of Brandon Craig, Medical Student) Supervisor: Michael Yan	Alex Vitkin Stanley Liu
	Radiotherapy for the Management of Bone Metastases in Differentiated Thyroid Cancer S3 – #P3	Colin Faulkner, Radiation Oncology Resident Supervisor: Jelena Lukovic	David Shultz Alexandra Rink

Program Agenda

	Assessing the Safety of Delayed Elective Nodal Irradiation Through Pre-Treatment Nodal Kinetics in High-Risk OPSCC S4 – #P4	George Li , <i>Radiation Oncology Resident</i> Supervisor: Andrew McPartlin	Jennifer Croke Kathy Han
	Evaluating Cardiac Substructure Exposure and Auto-Contouring Feasibility in Paediatric Patients Treated with Proton Beam Therapy S5 – #P5	Love Goyal , <i>STARS21 Scholar</i> Supervisor: Marianne Aznar	Anthony Lausch Jennifer Kwan
	Evaluation of Normal Tissue and Organ-at-Risk Sparing for Glioblastoma Patients Using a Small-Margin Weekly Adaptive Protocol on a 1.5T MR-Linac S6 – #P6	Thomas Mann , <i>Physics Resident</i> Supervisor: Mark Ruschin	David Hodgson Catherine Coolens
Session 1.2 #P7-12 10:10 – 10:15	Safety and Efficacy of External Beam Radiotherapy in the Management of Differentiated Thyroid Cancer S1 – #P7	Dana Bartolucci , <i>Radiation Oncology Resident</i> Supervisor: Aruz Mesci	Jay Detsky Scott Bratman
	Review of a Proton Therapy Consultation Service for Radiation Oncologists in Canada S2 – #P8	Inhwa Kim , <i>Radiation Oncology Resident</i> Supervisor: Derek Tsang	Alex Vitkin Stanley Liu
	Patterns of Failure for Patients With Thymoma Treated With Post Operative Radiation Therapy S3 – #P9	Oded Icht , <i>Radiation Oncology Fellow</i> Supervisor: Andrew Hope	David Shultz Alexandra Rink
	Outcomes of Palliative Hypofractionated Radiotherapy with 50 Gy in 20 Fractions with or without a Treatment Break in Head and Neck Cancer Patients S4 – #P10	Aarthi Iyer , <i>Radiation Oncology Fellow</i> Supervisor: Andrew McPartlin	Jennifer Croke Kathy Han
	Radiation Therapy for Gynaecological Cancers: Effects of Sense of Coherence on Outcomes and Patient Experience S5 – #P11	Anita Vloet , <i>STARS21 Scholar</i> Supervisor: Michael Velec and Yat Tsang	Anthony Lausch Jennifer Kwan
	Off-Protocol Radiotherapy in Prospective Systemic Therapy Trials for Metastatic Non-Small Cell Lung Cancer S6 – #P12	Kara Ruicci , <i>Radiation Oncology Resident</i> Supervisor: Alex Louie	David Hodgson Catherine Coolens
Session 1.3 #P13-18 10:20 – 10:25	Leveraging Hybrid PET/MR Imaging to Distinguish Progression From Radionecrosis Post-Radiosurgery S1 – #P13	Michael Maddalena , <i>STARS21 Scholar</i> Supervisor: Catherine Coolens	Jay Detsky Scott Bratman
	Moderate Hypofractionated Boost to the Prostate With Pelvic Radiotherapy in High-Risk Prostate Cancer (MOB-RT): Early Outcomes From a Non-Randomized Phase II Trial S2 – #P14	John Mohan Mathew , <i>Radiation Oncology Fellow</i> Supervisor: Rachel Glicksman	Alex Vitkin Stanley Liu
	Evaluating Dose Accumulation, Gastrointestinal Toxicity, and Clinical Outcomes in MR-Guided Pancreatic SABR S3 – #P15	Rekaya Shabbir , <i>STARS21 Scholar</i> Supervisor: Cynthia Eccles	David Shultz Alexandra Rink

Program Agenda

	Impact of Breast Irradiation On Long-Term Risk of Cardiac Events Following Breast-Conserving Surgery for DCIS: a Population-Based Analysis S4 – #P16	Fasila Johri , <i>Radiation Oncology Resident</i> Supervisor: Eileen Rakovitch	Jennifer Croke Kathy Han
	Investigation of a Novel Methodology To Select Patients for PTV Margin Reduction via Daily Adaptive Radiotherapy for Head and Neck Cancer S5 – #P17	Alec Hughes , <i>Radiation Oncology Resident</i> Supervisor: Andrew McPartlin	Anthony Lausch Jennifer Kwan
	Optimal Apparent Diffusion Coefficient (ADC) Thresholds for Predicting Geographic Recurrence in Glioblastoma During Chemoradiation (CRT) S6 – #P18	Daniel Palhares , <i>Radiation Oncology Fellow</i> Supervisor: Hany Soliman	David Hodgson Catherine Coolens
10:25 – 10:55	Morning Break (30 minutes)		
Cody Hall	<u>Oral Presentations 2</u> (5 mins talk + 2 mins Q&A) Judges: Mike Milosevic, May Tsao Moderator: Tom Purdie		
# & Time	Title	Presenters	
#07-O12 10:55 – 11:37	Prospective Study on Head and Neck Stereotactic Body Radiotherapy: A Tolerance Analysis #07	Stephan Tran , <i>Radiation Oncology Fellow</i> Supervisor: Irene Karam	
	Automated Case Prioritization in Breast Radiation Therapy Peer Review Rounds #08	Christy Wong , <i>STARS21 Scholar</i> Supervisor: Tom Purdie	
	Assessing Diffuse Optical Spectroscopy and Magnetic Resonance Imaging for Quantification of Multimodal Gadolinium-Incorporated Porphysomes for Theranostic Guidance of Oral Cancer Resection #09	Theodore Husby , <i>Graduate Student</i> Supervisor: Robert Weersink	
	Patterned Air Hole Defects in Dielectric Radial Waveguide Structures to Increase the Power Transmission Efficiency in Dielectric Wall Accelerators #O10	Jason Yuan , <i>Graduate Student</i> Supervisor: Jan Seuntjens	
	Investigation of survival and non-cancer death following lung stereotactic body radiation therapy using machine learning-based auto-segmentation #O11	Iymad Mansour , <i>Physics Resident</i> Supervisor: Tony Tadic	
	Pipeline for Characterizing (Dosimetric) Impact of Respiratory Motion on Cardiac SBRT #O12	Sarah Aubert , <i>Physics Resident</i> Supervisor: Leigh Conroy, Tony Tadic	
11:40 – 12:25 (35 mins talk + 10 mins Q&A)	<u>Keynote Address</u> Improving Clinical Evidence Driven Discovery with Large Scale Comprehensive Analytics	Speaker Charles Mayo , <i>University of Michigan Medical School</i> (Introduction: Dr. David Hodgson)	
12:25 – 1:25	Great Hall	Lunch (60 minutes)	

Program Agenda

Poster Discussion 2 (3 mins talk + 2 mins Q&A)			
# & Time	Title	Presenters	Judges
Session 2.1 #P19-24 1:25 – 1:30	Liquid Biopsy-Based Mass Spectrometry Metabolomics for Early Detection and Radiotherapy Monitoring of Gliomas S1 – #P19	Irene Rebolledo Pedrido , <i>STARS21 Scholar</i> Supervisor: Petra Hamerlik	May Tsao Alex Louie
	Innovative Patient-Derived Glioblastoma Models for Assessing Radiation-Activated Photodynamic Therapy Effectiveness S2 – #P20	Manjusha Muralidharan , <i>Research Fellow</i> Supervisor: Deepak Dinakaran	Yat Tsang Robert Weersink
	Methylome Plasticity as a Biomarker of Treatment Response in Small Cell Lung Cancer S3 – #P21	Danielle Benedict Sacdalan , <i>Graduate Student</i> Supervisor: Benjamin Lok	Patricia Lindsay Tom Purdie
	Investigating Micro-Environmental Changes in a Syngeneic Radio-Recurrent Prostate Cancer Model S4 – #P22	Stephanie White , <i>STARS21 Scholar</i> Supervisor: Stanley Liu	Shane Harding Dana Keilty
	Immune Landscape of Radiation Necrosis VS Local Failure in Melanoma Brain Metastases Treated with Stereotactic Radiosurgery S5 – #P23	Maleeha Qazi , <i>Radiation Oncology Resident</i> Supervisor: David Shultz	Anne Koch Derek Tsang
	PARP and Autophagy Inhibition Synergy in Small Cell Lung Cancer S6 – #P24	Tony Yu , <i>Graduate Student</i> Supervisor: Benjamin Lok	Mike Milosevic Danielle Rodin
Session 2.2 #P25-30 1:35 – 1:40	SPECT/CT Imaging, Safety and Dosimetry of Electron-Emitting ¹⁹⁷ Hg-Labeled Gold Nanoparticles Administered by Convection-Enhanced Delivery to NRG Mice with U-251-Luc Human GBM Tumours in the Brain S1 – #P25	Madeline Brown , <i>STARS21 Scholar</i> Supervisor: Raymond Reilly	May Tsao Alex Louie
	Investigating Predictive Biomarkers for Inhibitor of Apoptosis Proteins Antagonists in Squamous Cell Carcinoma of the Upper Aerodigestive Tract S2 – #P26	Danae Rin Chen , <i>Research Technician</i> Supervisor: Scott Bratman	Yat Tsang Robert Weersink
	Radiation Driven Alterations in Cell Cycle Progressions S3 – #P27	Vanessa Giglio , <i>STARS21 Scholar</i> Supervisor: Shane Harding	Patricia Lindsay Tom Purdie
	Deciphering Small Cell Lung Cancer Heterogeneity through Cell-to-Cell Communication by Single-cell Resolution Spatial Transcriptomic Analysis S4 – #P28	Victoria Gao , <i>STARS21 Scholar</i> Supervisor: Benjamin Lok	Shane Harding Dana Keilty
	Evaluating the Synergistic Effects of Antiangiogenic Therapy and Stereotactic Body Radiation Therapy in Pancreatic Cancer Using Optical Coherence Tomography S5 – #P29	Hector Contreras Sanchez , <i>STARS21 Scholar</i> Supervisor: Alex Vitkin, Edward Taylor	Anne Koch Derek Tsang
	Targeting the Cell's Nucleolus to Fight Breast Cancer S6 – #P30	Tamari Chkuaseli , <i>STARS21 Scholar</i> Supervisor: Razq Hakem, Karim Mekhail	Mike Milosevic Danielle Rodin

Program Agenda

Session 2.3 #P31-36 1:45 – 1:50	FBXO11 Mediates PARP Inhibitor Resistance in Small-Cell Lung Cancer S1 – #P31	Jiaqi Xiong , <i>STARS21 Scholar</i> Supervisor: Benjamin Lok	May Tsao Alex Louie
	Investigating the Role of SFRP4 in Breast Cancer-Related Lymphedema S2 – #P32	Mandi Ma , <i>STARS21 Scholar</i> Supervisor: Jennifer Kwan	Yat Tsang Robert Weersink
	Monte Carlo Derived Correction Factors for Ion Chambers Used in the Calibration of Gamma Knife Perfexion Model: Impact of Phantom Materials and Chamber Orientation on Dosimetric Accuracy S3 – #P33	Tasnim Rahman , <i>Graduate Student</i> Supervisor: Catherine Coolens and Jan Seuntjens	Patricia Lindsay Tom Purdie
	Innovation and Investigation of Radiochromic Crystals for Real-Time Self-Calibrating Fiber-Optic Dosimetry S4 – #P34	Rohith Kaiyum , <i>Graduate Student</i> Supervisor: Alexandra Rink	Shane Harding Dana Keilty
	An Adaptable Permeable Gel Phantom Bio-Mimetic for Realistic Tumor Representation and Tracer Pharmacokinetic Simulation Under Elevated Interstitial Fluid Pressure Conditions S5 – #P35	Brendan Samaroo , <i>Graduate Student</i> Supervisor: Catherine Coolens	Anne Koch Derek Tsang
	Clinical Implementation of a Film Based PSQA System for SBRT on a 1.5T MR-Linac S6 – #P36	Mark D'Souza , <i>Physics Resident</i> Supervisor: Lee Chin, Brian Keller	Mike Milosevic Danielle Rodin
Session 2.4 #P37-40 1:55 – 2:00	Metabolic Imaging in Cervical Cancers Using GlucoCEST MRI S1 – #P37	Madeline Rapley , <i>Graduate Student</i> Supervisor: Alexandra Rink	May Tsao Alex Louie
	Improving Deep Learning-based HR-CTV Segmentation in Cervical HDR Brachytherapy Using Vaginal Involvement Information from Clinical Notes S2 – #P38	Ruiyan Ni , <i>Graduate Student</i> Supervisor: Alexandra Rink	Yat Tsang Robert Weersink
	A Population-Based Open-Cohort Microsimulation Model for Projecting Long-Term Adverse Effects of Photon VS Proton Radiotherapy in CNS Cancer Patients S3 – #P39	Federico Keszti , <i>STARS21 Scholar</i> Supervisor: Jan Seuntjens	Patricia Lindsay Tom Purdie
	Lineage Tracing to Study Mechanisms of Radiation Resistance in Meningioma S4 – #P40	Chloe Gui , <i>STARS21 Scholar</i> Supervisor: Gelareh Zadeh	Shane Harding Dana Keilty

Program Agenda

<div>Cody Hall</div> <div>Oral Presentations 3 (5 mins talk + 2 mins Q&A)</div> <div>Judges: David Hodgson, Derek Tsang</div> <div>Moderator: Alex Louie</div>		
# & Time	Title	Presenters
#O13-18 2:05 – 2:47	Real-Time MRI-Guided Brachytherapy: A Series of Unique Applications #O13	John Mohan Mathew, Radiation Oncology Fellow Supervisor: Rachel Glicksman, Peter Chung
	Dosimetric Comparison between Delivered External Beam Radiotherapy and Simulated High Dose Rate Brachytherapy in Head & Neck Cancers #O14	Dustin Newton, Radiation Oncology Resident Supervisor: Nauman Malik
	Does Dose Avoidance of Uninvolved Skin/Subcutaneous Tissues Reduce Morbidity in Preoperative Intensity-Modulated Radiation Therapy for Soft Tissue Sarcomas of the Lower Extremity? #O15	Siyer Roohani, Radiation Oncology Resident Supervisor: Peter Chung
	Efficacy of Administering Pentoxifylline, Tocopherol, with or without Clodronate, to Irradiated Head and Neck Cancer Patients with Osteoradionecrosis #O16	Dustin Jan Cruz, Radiation Oncology Fellow Supervisor: Philip Wong
	Outcomes of Staged Frameless Stereotactic Radiosurgery for Previously Irradiated Brain Metastases #O17	Daniel Tong, Radiation Oncology Fellow Supervisor: Hanbo Chen
	The Role of Stereotactic Body Radiotherapy in Oligoprogressive Prostate Cancer: A Site-Specific Analysis of the Prospective, Phase II Radiant Trial #O18	Kara Ruicci, Radiation Oncology Resident Supervisor: Rachel Glicksman
2:47 – 3:17	Afternoon Break (30 minutes)	
<div>Cody Hall</div> <div>Oral Presentations 4 (5 mins talk + 2 mins Q&A)</div> <div>Judges: Shane Harding, David Shultz</div> <div>Moderator: Rachel Glicksman</div>		
# & Time	Title	Presenters
#O19-25 3:20 – 4:09	Development of Multivariable Risk Models for Breast Cancer-Related Lymphedema: Interferon-Alpha-2A as a Potential Predictor for Lymphedema Occurrence #O19	Alison Wu, Medical Student Supervisor: Jennifer Kwan
	Investigating NRF2-Mediated Radioresistance in HPV-Negative Head and Neck Squamous Cell Carcinoma Preclinical Models #O20	Aakshi Puri, STARS21 Scholar Supervisor: Scott Bratman
	Automated CBCT-Based Tumour Volume Tracking is Prognostic in Virally-Mediated Head & Neck Cancer #O21	Eric Stutheit-Zhao, Radiation Oncology Resident Supervisor: Scott Bratman

Program Agenda

	Disrupting Redox Homeostasis in Pancreatic Ductal Adenocarcinoma Initiates Anti-Tumour Immune Responses #O22	Vishal Pandya , <i>STARS21 Scholar</i> Supervisor: Marianne Koritzinsky
	Enhanced MR-Guided Radiotherapy and Tumor Hypoxia Reduction with Manganese Dioxide Nanoparticles #O23	Rachel Yang , <i>STARS21 Scholar</i> Supervisor: Michael Milosevic
	Temozolomide Co-Encapsulation with Radiation-Activated Photodynamic Therapy (RadioPDT) is an Effective Strategy for Sustained Release of the Drug #O24	Muhammad Rafiq , <i>Post Doc Research Fellow, Sunnybrook</i> Supervisor: Deepak Dinakaran
	Investigating the Impact of Radiotherapy on the Sensitivity of Cancer Cells to Lysis by Pore-Forming Proteins #O25	Adesewa Adebisi , <i>STARS21 Scholar</i> Supervisor: Jamie Honeychurch
4:10 – 4:25	Closing Remarks	Dr. David Hodgson , UTDRO Vice-Chair of Research
4:30 – 6:00	Great Hall	Wine and Cheese Social + Award Presentation