

## Program Agenda

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

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	Assessing the Safety of Delayed Elective Nodal Irradiation Through Pre-Treatment Nodal Kinetics in High-Risk OPSCC <b>S4 – #P4</b>	<b>George Li</b> , <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 <b>S5 – #P5</b>	<b>Love Goyal</b> , <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 <b>S6 – #P6</b>	<b>Thomas Mann</b> , <i>Physics Resident</i> Supervisor: Mark Ruschin	David Hodgson Catherine Coolens
<b>Session 1.2</b> <b>#P7-12</b> 10:10 – 10:15	Safety and Efficacy of External Beam Radiotherapy in the Management of Differentiated Thyroid Cancer <b>S1 – #P7</b>	<b>Dana Bartolucci</b> , <i>Radiation Oncology Resident</i> Supervisor: Aruz Mesci	Jay Detsky Scott Bratman
	Review of a Proton Therapy Consultation Service for Radiation Oncologists in Canada <b>S2 – #P8</b>	<b>Inhwa Kim</b> , <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 <b>S3 – #P9</b>	<b>Oded Icht</b> , <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 <b>S4 – #P10</b>	<b>Aarthi Iyer</b> , <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 <b>S5 – #P11</b>	<b>Anita Vloet</b> , <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 <b>S6 – #P12</b>	<b>Kara Ruicci</b> , <i>Radiation Oncology Resident</i> Supervisor: Alex Louie	David Hodgson Catherine Coolens
<b>Session 1.3</b> <b>#P13-18</b> 10:20 – 10:25	Leveraging Hybrid PET/MR Imaging to Distinguish Progression From Radionecrosis Post-Radiosurgery <b>S1 – #P13</b>	<b>Michael Maddalena</b> , <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 <b>S2 – #P14</b>	<b>John Mohan Mathew</b> , <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 <b>S3 – #P15</b>	<b>Rekaya Shabbir</b> , <i>STARS21 Scholar</i> Supervisor: Cynthia Eccles	David Shultz Alexandra Rink

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	Impact of Breast Irradiation On Long-Term Risk of Cardiac Events Following Breast-Conserving Surgery for DCIS: a Population-Based Analysis <b>S4 – #P16</b>	<b>Fasila Johri</b> , <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 <b>S5 – #P17</b>	<b>Alec Hughes</b> , <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) <b>S6 – #P18</b>	<b>Daniel Palhares</b> , <i>Radiation Oncology Fellow</i> Supervisor: Hany Soliman	David Hodgson Catherine Coolens
10:25 – 10:55	<b>Morning Break (30 minutes)</b>		
<b>Cody Hall</b>	<b>Oral Presentations 2</b> (5 mins talk + 2 mins Q&A) <b>Judges:</b> Mike Milosevic, May Tsao <b>Moderator:</b> Tom Purdie		
# & Time	Title	Presenters	
#07-012 10:55 – 11:37	Prospective Study on Head and Neck Stereotactic Body Radiotherapy: A Tolerance Analysis <b>#07</b>	<b>Stephan Tran</b> , <i>Radiation Oncology Fellow</i> Supervisor: Irene Karam	
	Automated Case Prioritization in Breast Radiation Therapy Peer Review Rounds <b>#08</b>	<b>Christy Wong</b> , <i>STARS21 Scholar</i> Supervisor: Tom Purdie	
	Assessing Diffuse Optical Spectroscopy and Magnetic Resonance Imaging for Quantification of Multimodal Gadolinium-Incorporated Porphyosomes for Theranostic Guidance of Oral Cancer Resection <b>#09</b>	<b>Theodore Husby</b> , <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 <b>#010</b>	<b>Jason Yuan</b> , <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 <b>#011</b>	<b>Iymad Mansour</b> , <i>Physics Resident</i> Supervisor: Tony Tadic	
	Pipeline for Characterizing (Dosimetric) Impact of Respiratory Motion on Cardiac SBRT <b>#012</b>	<b>Sarah Aubert</b> , <i>Physics Resident</i> Supervisor: Leigh Conroy, Tony Tadic	
11:40 – 12:25 (35 mins talk + 10 mins Q&A)	<b>Keynote Address</b> Improving Clinical Evidence Driven Discovery with Large Scale Comprehensive Analytics	<b>Speaker Charles Mayo</b> , <i>University of Michigan Medical School</i> (Introduction: Dr. David Hodgson)	
12:25 – 1:25	<b>Great Hall</b>	<b>Lunch (60 minutes)</b>	

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<b>Poster Discussion 2</b> (3 mins talk + 2 mins Q&A)			
<b># &amp; Time</b>	<b>Title</b>	<b>Presenters</b>	<b>Judges</b>
<b>Session 2.1</b> <b>#P19-24</b> 1:25 – 1:30	Liquid Biopsy-Based Mass Spectrometry Metabolomics for Early Detection and Radiotherapy Monitoring of Gliomas <b>S1 – #P19</b>	<b>Irene Rebolledo Pedrido</b> , <i>STARS21 Scholar</i> Supervisor: Petra Hamerlik	May Tsao Alex Louie
	Innovative Patient-Derived Glioblastoma Models for Assessing Radiation-Activated Photodynamic Therapy Effectiveness <b>S2 – #P20</b>	<b>Manjusha Muralidharan</b> , <i>Research Fellow</i> Supervisor: Deepak Dinakaran	Yat Tsang Robert Weersink
	Methylome Plasticity as a Biomarker of Treatment Response in Small Cell Lung Cancer <b>S3 – #P21</b>	<b>Danielle Benedict Sacdalan</b> , <i>Graduate Student</i> Supervisor: Benjamin Lok	Patricia Lindsay Tom Purdie
	Investigating Micro-Environmental Changes in a Syngeneic Radio-Recurrent Prostate Cancer Model <b>S4 – #P22</b>	<b>Stephanie White</b> , <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 <b>S5 – #P23</b>	<b>Maleeha Qazi</b> , <i>Radiation Oncology Resident</i> Supervisor: David Shultz	Anne Koch Derek Tsang
	PARP and Autophagy Inhibition Synergy in Small Cell Lung Cancer <b>S6 – #P24</b>	<b>Tony Yu</b> , <i>Graduate Student</i> Supervisor: Benjamin Lok	Mike Milosevic Danielle Rodin
<b>Session 2.2</b> <b>#P25-30</b> 1:35 – 1:40	SPECT/CT Imaging, Safety and Dosimetry of Electron-Emitting <sup>197</sup> Hg-Labeled Gold Nanoparticles Administered by Convection-Enhanced Delivery to NRG Mice with U-251-Luc Human GBM Tumours in the Brain <b>S1 – #P25</b>	<b>Madeline Brown</b> , <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 <b>S2 – #P26</b>	<b>Danae Rin Chen</b> , <i>Research Technician</i> Supervisor: Scott Bratman	Yat Tsang Robert Weersink
	Radiation Driven Alterations in Cell Cycle Progressions <b>S3 – #P27</b>	<b>Vanessa Giglio</b> , <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 <b>S4 – #P28</b>	<b>Victoria Gao</b> , <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 <b>S5 – #P29</b>	<b>Hector Contreras Sanchez</b> , <i>STARS21 Scholar</i> Supervisor: Alex Vitkin, Edward Taylor	Anne Koch Derek Tsang
	Targeting the Cell's Nucleolus to Fight Breast Cancer <b>S6 – #P30</b>	<b>Tamari Chkuaseli</b> , <i>STARS21 Scholar</i> Supervisor: Razq Hakem, Karim Mekhail	Mike Milosevic Danielle Rodin

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

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<div style="border: 1px solid black; padding: 2px; display: inline-block; margin-bottom: 5px;"><b>Cody Hall</b></div> <b>Oral Presentations 3</b> (5 mins talk + 2 mins Q&A)		
<b>Judges:</b> David Hodgson, Derek Tsang <b>Moderator:</b> Alex Louie		
# & Time	Title	Presenters
<b>#O13-18</b> 2:05 – 2:47	Real-Time MRI-Guided Brachytherapy: A Series of Unique Applications <b>#O13</b>	<b>John Mohan Mathew</b> , <i>Radiation Oncology Fellow</i> Supervisor: Rachel Glicksman, Peter Chung
	Dosimetric Comparison between Delivered External Beam Radiotherapy and Simulated High Dose Rate Brachytherapy in Head & Neck Cancers <b>#O14</b>	<b>Dusitn Newton</b> , <i>Radiation Oncology Resident</i> 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? <b>#O15</b>	<b>Siyer Roohani</b> , <i>Radiation Oncology Resident</i> Supervisor: Peter Chung
	Efficacy of Administering Pentoxifylline, Tocopherol, with or without Clodronate, to Irradiated Head and Neck Cancer Patients with Osteoradionecrosis <b>#O16</b>	<b>Dustin Jan Cruz</b> , <i>Radiation Oncology Fellow</i> Supervisor: Philip Wong
	Outcomes of Staged Frameless Stereotactic Radiosurgery for Previously Irradiated Brain Metastases <b>#O17</b>	<b>Daniel Tong</b> , <i>Radiation Oncology Fellow</i> Supervisor: Hanbo Chen
	The Role of Stereotactic Body Radiotherapy in Oligoprogressive Prostate Cancer: A Site-Specific Analysis of the Prospective, Phase II Radiant Trial <b>#O18</b>	<b>Kara Ruicci</b> , <i>Radiation Oncology Resident</i> Supervisor: Rachel Glicksman
2:47 – 3:17	<b>Afternoon Break (30 minutes)</b>	
<div style="border: 1px solid black; padding: 2px; display: inline-block; margin-bottom: 5px;"><b>Cody Hall</b></div> <b>Oral Presentations 4</b> (5 mins talk + 2 mins Q&A)		
<b>Judges:</b> Shane Harding, David Shultz <b>Moderator:</b> Rachel Glicksman		
# & Time	Title	Presenters
<b>#O19-25</b> 3:20 – 4:09	Development of Multivariable Risk Models for Breast Cancer-Related Lymphedema: Interferon-Alpha-2A as a Potential Predictor for Lymphedema Occurrence <b>#O19</b>	<b>Alison Wu</b> , <i>Medical Student</i> Supervisor: Jennifer Kwan
	Investigating NRF2-Mediated Radioresistance in HPV-Negative Head and Neck Squamous Cell Carcinoma Preclinical Models <b>#O20</b>	<b>Aakshi Puri</b> , <i>STARS21 Scholar</i> Supervisor: Scott Bratman
	Automated CBCT-Based Tumour Volume Tracking is Prognostic in Virally-Mediated Head & Neck Cancer <b>#O21</b>	<b>Eric Stutheit-Zhao</b> , <i>Radiation Oncology Resident</i> Supervisor: Scott Bratman

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