

Program Agenda

| Time | Session | Speakers |
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| 8:30 – 9:00 | Registration (30 mins) | |
| 9:00 – 9:10 | MPR Welcome Remarks | Laura Dawson / Chair, UTDR0 Shane Harding and Jennifer Kwan / STARS21 Co-Directors |
| Multipurpose Room (MPR) | Oral Presentations 1 (5 mins talk + 2 mins Q&A) Judges: Scott Bratman, Jennifer Kwan Moderator: Deepak Dinakaran | |
| Oral# & Time | Title | Presenters |
| #01-07 9:10 – 9:59 | Is Reirradiation Spine SBRT with Spinal Cord Doses Exceeding HyTEC Constraints Safe and Effective? #01 | Terence Tang , <i>Radiation Oncology Fellow</i> Supervisor: Arjun Sahgal, Jay Detsky |
| | The Role of Stereotactic Body Radiotherapy in Oligoprogressive Renal Cell Carcinoma: A Site-Specific Analysis of the Phase II RADIANT Trial #02 | Neelabh Rastogi , <i>Radiation Oncology Resident</i> Supervisor: Rachel Glicksman |
| | Sexual Dysfunction in Cervix Cancer Survivors after Surgery and/or Radiochemotherapy: A Bayesian Network Analysis Based on the SENECA Study Cohort #03 | Adriel Ngo , <i>Graduate Student</i> Supervisor: Monica Serban |
| | Cardiac Adverse Events Following Post-Operative Radiation Therapy in Patients with Thymomas #04 | Oded Icht , <i>Radiation Oncology Fellow</i> Supervisor: Andrew Hope |
| | Re-irradiation for Recurrent Paediatric Diffuse Midline Glioma: An International, Multi-institutional Retrospective Study #05 | Ajay Thomas Alex , <i>Radiation Oncology Fellow</i> Supervisor: Derek Tsang |
| | Radiation Therapy for Gynaecological Cancers: Effects of Sense of Coherence on Outcomes and Patient Experience #06 | Anita Vloet , <i>STARS21 Scholar</i> Supervisor: Michael Velec, Yat Tsang |
| | Breast Cancer Recurrence in BRCA Carriers after Breast Conserving Therapy versus Mastectomy – A Retrospective Review #07 | Caroline Hircock , <i>Radiation Oncology Resident</i> Supervisor: Edward Chow |
| 10:00 – 10:10 | EDI in Research Advancing Inclusive Practices in Programs, Trials, and Grants | Jennifer Croke / Director, Equity, Diversity, Inclusion and Professionalism, UTDR0 |
| 10:10 – 10:15 | Transit Time Between Sessions (5 mins) | |

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| <p>Assigned screen locations</p> <p style="text-align: center;">Poster Discussion 1 (3 mins talk + 2 mins Q&A) Screen assignment: S1 = Screen 1; S2 = Screen 2, etc.</p> | | | |
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| Poster# & Time | Title, Screen # – Poster # | Presenters | Judges |
| <p>Poster 1.1 #P1-6 10:15 – 10:20</p> | International Practice Patterns in the Management of Limited Stage Small Cell Lung Cancer S1 – #P1 | Neelabh Rastogi , <i>Radiation Oncology Resident</i> Supervisor: Alexander Louie, Michael Tjong, Amir Safavi | Jay Detsky, Kathy Han |
| | Trends in the Surgical Management of Breast Cancer in Alberta S2 – #P2 | Sagar Grewal , <i>Radiation Oncology Resident</i> Supervisor: Lashan Peiris (non-UTDRO/STARS21) | Shane Harding, Kang Liang Zeng |
| | Factors Associated with Non-Completion of Palliative Radiation Therapy in Patients with Metastatic Cancer S3 – #P3 | Oded Icht , <i>Radiation Oncology Fellow</i> Supervisor: Jillian Tsai | May Tsao, Yat Tsang |
| | Patterns of Practice in Thoracic Reirradiation in Ontario: A Department-Level Survey S4 – #P4 | Geraldine Murphy , <i>Radiation Oncology Fellow</i> Supervisor: Andrea Bezjak, Jean-Pierre Bissonnette | Patricia Lindsay, John Cho |
| | Outcomes Following Stereotactic Body Radiotherapy (SBRT) for Melanoma Spine Metastases S5 – #P5 | Maleeha Qazi , <i>Radiation Oncology Resident</i> Supervisor: Philip Wong | David Hodgson, Deepak Dinakaran |
| | APP4-guided Selection of Active Surveillance versus SBRT for Favorable-risk Prostate Cancer: Pooled Prospective Registry and Trial Outcomes S6 – #P6 | Ruben Del Castillo , <i>Radiation Oncology Fellow</i> Supervisor: Andrew Loblaw | Amir Safavi, Anne Koch |
| <p>Poster 1.2 #P7-12 10:25 – 10:30</p> | Improving Timeliness of Oncology Consultation: Impact of a Rapid-Access Radiotherapy Model S1 – #P7 | Vikas Kaushik , <i>Patient Flow Coordinator</i> Supervisor: Jillian Tsai | Jay Detsky, Kathy Han |
| | From Diagnosis to Treatment: Leveraging Diagnostic CT (dCT) Scans for Planning Palliative Radiation Therapy (PRT) S2 – #P8 | Mandeep Singh Reen , <i>Physics Resident</i> Supervisor: Catherine Neath, Christopher Dydula | Shane Harding, Kang Liang Zeng |
| | The Role of Stereotactic Body Radiotherapy in Oligoprogressive Breast Cancer: A Site-Specific Analysis of the Prospective, Phase-II RADIANT Trial S3 – #P9 | Kara Ruicci , <i>Radiation Oncology Resident</i> Supervisor: Rachel Glicksman | May Tsao, Yat Tsang |
| | Comparative Evaluation of a Multi-View Ensemble Architecture for Target Segmentation in MR-Guided HDR Brachytherapy S4 – #P10 | Soroush Ghomashchi , <i>Graduate Student</i> Supervisor: Alexandra Rink | Patricia Lindsay, John Cho |
| | Improving Radiotherapy Decision-Making in Older Adults With Head and Neck Cancer: The Impact of Geriatric Assessment S5 – #P11 | Colin Faulkner , <i>Radiation Oncology Resident</i> Supervisor: Aruz Mesci | David Hodgson, Deepak Dinakaran |
| | Salvage Re-Irradiation Using MRI-Planned Interstitial Brachytherapy for Recurrent Gynecological Tumors in the Pelvis S6 – #P12 | Spencer, Hsin-pei Hu , <i>Radiation Oncology Fellow</i> Supervisor: Eric Leung | Amir Safavi, Anne Koch |

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| Poster 1.3 #P13-17 10:35 – 10:40 | Quality of Life in Children treated with Re-Irradiation for Diffuse Intrinsic Pontine Gliomas: A Prospective Study S1 – #P13 | Jane Jomy, Medical Student Supervisor: Derek Tsang | Jay Detsky, Kathy Han |
| | Preliminary Dosimetric Results from a Phase II Randomized Trial on the Effects of Delayed Elective Radiotherapy in Head and Neck Squamous Cell Carcinoma S2 – #P14 | George Li, Radiation Oncology Resident Supervisor: Andrew McPartlin | Shane Harding, Kang Liang Zeng |
| | Adaptive Radiotherapy in the 0-7-21 Regimen: A Retrospective Study of Tumor Volumetric Response S3 – #P15 | Dana Bartolucci, Radiation Oncology Resident Supervisor: Philip Wong | May Tsao, Yat Tsang |
| | Progression-Free Survival and Objective Response Rate as a Surrogate Endpoint for Overall Survival in Metastatic Renal Cell Carcinoma: A Systematic Review and Meta-Analysis S4 – #P16 | Russell Leong, Medical Student Supervisor: Ege Babadagli | Patricia Lindsay, John Cho |
| | Prognostic Value of Impaired Vocal Cord Mobility in T2N0 Glottic Cancer Treated with IMRT S5 – #P17 | Alexander Ruhle, Radiation Oncology Fellow Supervisor: Ezra Hahn | David Hodgson, Deepak Dinakaran |

10:40 – 11:00

Morning Break (20 minutes)

Multipurpose Room (MPR)

Oral Presentations 2 (5 mins talk + 2 mins Q&A)

Judges: Scott Bratman, Jennifer Kwan

Moderator: Badr Id Said

| Oral# & Time | Title | Presenters |
|---------------------------------|--|---|
| #O8-O13 11:00 – 11:42 | Adjuvant Breast Re-irradiation After Ipsilateral Recurrence: Dose–Toxicity Relationships and Long-Term Outcomes With External Beam Radiotherapy #O8 | Suman Gopal Ghosh, Radiation Oncology Fellow Supervisor: Gregory Czarnota |
| | Association of CT-Detected Proximal Airway Obstruction with Clinical Airway Events and Survival in Patients Receiving Palliative Thoracic Radiotherapy #O9 | Aly Muhammad Ladak, Medical Student Supervisor: Jillian Tsai |
| | MR-Guided Stereotactic Radiotherapy for Oligometastatic Prostate Cancer: Towards Optimal Patient Selection #O10 | Levi Burns, Radiation Oncology Resident Supervisor: Andrew McPartlin |
| | Dosimetric Predictors of Pneumonitis in Patients with Localized HER2-Positive Breast Cancer Receiving Radiotherapy and Trastuzumab-Emtansine #O11 | Hannah Bacon, Radiation Oncology Resident Supervisor: Anne Koch |
| | Learning to Adapt: Initial Clinical Experience with Online Adaptive Radiotherapy for Cervical Cancer #O12 | Elena Riggerbach, Radiation Oncology Fellow Supervisor: Kathy Han, Tony Tadic |
| | Informational Needs of Caregivers of Head and Neck Cancer Patients #O13 | Alvin Qiu, Radiation Oncology Resident Supervisor: Meredith Giuliani, Janet Papadakos |

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| 11:45 – 12:30 (35 mins talk + 10 mins Q&A) | Keynote Address From Research to Impact: Commercialization, IP, and Innovation in Universities and Hospitals | Shiri Breznitz / University of Toronto (Introduction: David Hodgson) | |
|---|--|---|--|
| 12:30 – 1:30 | Lunch (60 minutes) | | |
| Assigned screen locations | Poster Discussion 2 (3 mins talk + 2 mins Q&A) Screen assignment: S1 = Screen 1; S2 = Screen 2, etc. | | |
| Poster# & Time | Title | Presenters | Judges |
| Poster 2.1 #P18-23 1:30 – 1:35 | A Prospective Audit of Thoracic Reirradiation Practice and Peer-Review in a High-Volume Academic Center S1 – #P18 | Geraldine Murphy, Radiation Oncology Fellow Supervisor: Andrea Bezjak | Marianne Koritzinsky, Badr Id Said |
| | Impact of Immobilisation on Patient Comfort on the MR Linac: Results of a Patient Experience Questionnaire S2 – #P19 | Rebecca Riding, External/visiting STARS21 Scholar Supervisor: Cynthia Eccles | Shane Harding, Barbara-Anne Millar |
| | Spatially Fractionated Radiotherapy (SFRT) is a Treatment Option for Previously Irradiated Bulky Disease in the Palliative Setting S3 – #P20 | Levi Burns, Radiation Oncology Resident Supervisor: Jelena Lukovic | Patricia Lindsay, Hossein Afsharpour |
| | Circulating H3K27me3 Chromatin Profiling as a Liquid Biopsy Biomarker in Small Cell Lung Cancer S4 – #P21 | Aleem Aamir, STARS21 Scholar Supervisor: Scott Bratman, Benjamin Lok | Mike Milosevic, Dylan Yamabe Breitkreutz |
| | Development Of A Radioresistance Gene Signature To Guide Radiotherapy In Prostate Cancer S5 – #P22 | Taha Lodhi, STARS21 Scholar Supervisor: Ananya Choudhury | Anthony Lausch, Philip Wong |
| | Identifying Lead Compounds for a Targeted Protein Degradator of Peroxiredoxin 4 S6 – #P23 | Norman Fu, STARS21 Scholar Supervisor: Marianne Koritzinsky | Beibei Zhang, Catherine Coolens |
| Poster 2.2 #P24-29 1:40 – 1:45 | An Analysis of Oncology Content in the Curriculum of a Canadian Medical School S1 – #P24 | Jane Jomy, Medical Student Supervisor: May Tsao | Marianne Koritzinsky, Badr Id Said |
| | Statistical Shape Modelling of the Pelvis from Radiotherapy Planning CT to Predict Sacral Insufficiency Fractures S2 – #P25 | Artemis Bouzaki, STARS21 Scholar Supervisor: Azadeh Abravan, Alan McWilliam, Claire Higham | Shane Harding, Barbara-Anne Millar |
| | Elucidating Radiation-induced Fibrosis through a Spatiotemporal Transcriptomics Approach in a Murine Model S3 – #P26 | Tirthankar Ray, STARS21 Scholar Supervisor: Fei-Fei Liu | Patricia Lindsay, Hossein Afsharpour |
| | Mitigation of Gastrointestinal Acute Radiation Syndrome by Promoting Clusterin-Mediated Intestinal Regeneration S4 – #P27 | Mardi Fink, Post Doc Research Fellow Supervisor: David Kirsch | Mike Milosevic, Dylan Yamabe Breitkreutz |
| | Defining the Role of the Hypoxic Microenvironment in Soft Tissue Sarcoma Metastasis S5 – #P28 | Nathan Symss, Graduate Student Supervisor: David Kirsch | Anthony Lausch, Philip Wong |
| Biophysical Enhancement of Radiation-Activated Photodynamic Therapy (radioPDT) for Brain Tumor Models S6 – #P29 | Manjusha Muralidharan, Research Fellow Supervisor: Deepak Dinakaran | Beibei Zhang, Catherine Coolens | |

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| Poster 2.3 #P30-35 1:50 – 2:00 | Perspectives and Reflections on Implementing Excellence in Person-Centred Care for Radiation Therapists (PRIME-PCC): A National Assessment of Practice S1 – #P30 | Caroline Marr, STARS21 Scholar Supervisor: Yat Tsang, Michael Velec | Marianne Koritzinsky, Badr Id Said |
| | Assessing Detector Usage in Gamma Knife Dosimetry S2 – #P31 | Tasnim Rahman, Graduate Student Supervisor: Catherine Coolens, Jan Seuntjens | Shane Harding, Barbara-Anne Millar |
| | Beamline Simulations of a Dielectric Wall Accelerator for Low-Cost Proton Therapy S3 – #P32 | Jamiel Nasser, STARS21 Scholar Supervisor: Jan Seuntjens | Patricia Lindsay, Hossein Afsharpour |
| | CT-Based Deep Learning Segmentation of Paediatric Brain Substructures to Enable Retrospective Dose-Response Analysis Across Tumour Types S4 – #P33 | Chelsea Sargeant, External/visiting STARS21 Scholar Supervisor: Marianne Aznar | Mike Milosevic, Dylan Yamabe Breikreutz |
| | Contrast Enhanced Cone Beam CT Capabilities of Halcyon with HyperSight S5 – #P34 | Riley McMaster, Graduate Student Supervisor: Catherine Coolens | Anthony Lausch, Philip Wong |
| | Self-Supervised Deep Learning for Automated Segmentation in MR-Guided High Dose-Rate Brachytherapy S6 – #P35 | Caleb Thompson, STARS21 Scholar Supervisor: Alexandra Rink | Beibei Zhang, Catherine Coolens |
| Poster 2.4 #P36-41 2:05 – 2:10 | Development of a Clinically Viable Radiochromic Formulation for Real-Time Dosimetry S1 – #P36 | Rachel Shum, Post Doc Research Fellow Supervisor: Alexandra Rink | Marianne Koritzinsky, Badr Id Said |
| | <i>(Presenter withdrawn due to personal reasons)</i> S2 – #P37 | N/A | N/A |
| | Commissioning of MobiusCB: Patient CBCT QA for Clinical use in External Beam Radiation Therapy S3 – #P38 | Stephen Collins, Physics Resident Supervisor: Michael Jensen, Melinda Chi | Patricia Lindsay, Hossein Afsharpour |
| | Cervical Cancer Visualization with D-Glucosamine CEST-MRI S4 – #P39 | Madeline Rapley, Graduate Student Supervisor: Alexandra Rink | Mike Milosevic, Dylan Yamabe Breikreutz |
| | Medical Image Synthesis for Expediting the Diagnosis to Treatment Pathway In Radiation Oncology S5 – #P40 | Sophia Lollino, STARS21 Scholar Supervisor: Tom Purdie | Anthony Lausch, Philip Wong |
| | Monte Carlo Modelling of Well Chamber Response for Calibration of Diffusing Alpha-emitter Radiation Therapy Brachytherapy Seeds S6 – #P41 | Helena Koniar, Physics Resident Supervisor: Hossein Afsharpour | Beibei Zhang, Catherine Coolens |
| 2:10 – 2:15 | Transit Time Between Sessions (5 mins) | | |

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| <div style="display: flex; justify-content: space-between; align-items: center;"> <div style="border: 1px solid black; padding: 2px; background-color: #fce4d6;"> Multipurpose Room (MPR) </div> <div style="text-align: center;"> Oral Presentations 3 (5 mins talk + 2 mins Q&A) Judges: David Shultz, Alex Vitkin Moderator: Amir Safavi </div> </div> | | |
|---|---|---|
| Oral# & Time | Title | Presenters |
| #O14-19 2:15 – 2:57 | Advancing Treatment of Skeletal Metastases: Radiation-Induced Photodynamic Therapy (RadioPDT) with Novel Nanoparticles #O14 | Azin Mirzajavadkhan , <i>Graduate Student</i> Supervisor: Deepak Dinakaran |
| | p53 Coordinates Nucleotide Metabolism and Replication Fidelity to Enforce Chromosomal Stability #O15 | Risha Banerjee , <i>Graduate Student</i> Supervisor: David Kirsch |
| | Analyzing the Links Between Radiation, DNA Sensing and the Immune Response in Lung Cancer #O16 | Jana Klümper , <i>External/visiting STARS21 Scholar</i> Supervisor: Alexander Schramm |
| | Treatment of Orthotopic U251-Luc Human GBM Tumours in Mice Using Auger Electron-Emitting 197Hg-Gold Nanoparticles Administered by Convection-Enhanced Delivery #O17 | Madeline Brown , <i>STARS21 Scholar</i> Supervisor: Raymond Reilly |
| | radioPDT Mediated Drug Release as a Novel Strategy for the Treatment of Brain Cancer #O18 | Muhammad Rafiq , <i>Post Doc Research Fellow</i> Supervisor: Deepak Dinakaran |
| | IL-17A Mediates Extracellular Matrix Remodeling and Disease Progression in Cancer-related Lymphedema #O19 | Jeffrey, Chong Wa To , <i>STARS21 Scholar</i> Supervisor: Jennifer Kwan |
| 3:00 – 3:30 | Afternoon Break (30 minutes) + Poster Viewing | |
| 3:00 – 3:24 | Pre-function Area | Poster Viewing (4 minutes/poster) <i>Screen assignment: S2 = Screen 2; S3 = Screen 3, S4 = Screen 4</i> |
| Poster# & Time | Title | Abstract Submitter |
| PV1 #P42-44 3:00 – 3:04 | Integrity of Delivered Dose in Temporally Fractionated Lattice Radiotherapy amid Anatomical Changes and Setup Uncertainties S1 – #P42 | Naiyuan Liu , <i>Research Assistant</i> Supervisor: Monica Serban |
| | Re-irradiation of Intrahepatic Malignancies: A Single-Institution, Retrospective Study S2 – #P43 | Dana Bartolucci , <i>Radiation Oncology Resident</i> Supervisor: Aruz Mesci |
| | Review of Breast Re-Irradiation in a Tertiary Cancer Centre S3 – #P44 | Caroline Hircock , <i>Radiation Oncology Resident</i> Supervisor: Irene Karam |

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| PV2 #P45-47 3:04 – 3:08 | Circulating HPV DNA as a Biomarker for Tumour Burden and Treatment Response in Anal Cancer: Systematic Review of Existing Evidence and Ongoing LIBERATE Cohort Analysis S1 – #P45 | Henry Wong, Radiation Oncology Fellow Supervisor: John Kim |
| | 12-Month Radiographic Disease Control Predicts Survival After Radical Radiotherapy for NSCLC S2 – #P46 | Hebatalla Abdelaal, External/visiting STARS21 Scholar Supervisor: Corinne Faivre-Finn |
| | DART-CBCT: Dose Accumulation for Robust Tangents using CBCT (Focus: Evaluating Open Beam Proportion in 5-Fraction Tangential Breast) S3 – #P47 | Amandeep Bains, Physics Resident Supervisor: Daria Comsa |
| PV3 #P48-50 3:08 – 3:12 | Uncertainty Quantification of AI Predictions of Patient-Specific Quality Assurance Measurements S1 – #P48 | Rachel Cassidy, Graduate Student Supervisor: Tom Purdie |
| | INEX RT – Exploiting Inhale and Exhale Breath Hold RT to Improve the Therapeutic Ratio in Upper Abdominal Cancers S2 – #P49 | Ian Gerard, Radiation Oncology Fellow Supervisor: Laura Dawson |
| | A Clinical Information-Based Soft Contrastive Loss for Self-Supervised Learning in Cervical Cancer Radiotherapy S3 – #P50 | Ryan Yan, Graduate Student Supervisor: Alexandra Rink |
| PV4 #P51-53 3:12 – 3:16 | Finding Joy at Work: Perspectives from Radiation Oncology Staff Physicians and Residents/Fellows at a Regional Cancer Centre S1 – #P51 | Russell Leong, Medical Student Supervisor: Ege Babadagli |
| | Virtual vs Telephone Education in Radiotherapy – A Randomized Trial S2 – #P52 | Alvin Cuni, STARS21 Scholar Supervisor: Michael Velec, Yat Tsang |
| | Biomarkers for Response Following Whole Liver Radiotherapy for Painful Liver Cancer S3 – #P53 | Ian Gerard, Radiation Oncology Fellow Supervisor: Laura Dawson |
| PV5 #P54-55 3:16 – 3:20 | Inferring Whole Transcriptomic Profiles from Live-cell Phase Contrast Microscopy Images through Domain Adaptation and Gated Attention with PENNE S1 – #P54 | Richard, Zhi Fei Dong, STARS21 Scholar Supervisor: Gregory Schwartz |
| | Blood Vessels, Blood Flow and Oxygenation of Solid Tumours: A Comprehensive Preclinical Evaluation with Optical Coherence Tomography and Fluorescence Microscopy S2 – #P55 | Hector Alex Contreras, Graduate Student Supervisor: Alex Vitkin, Edward Taylor |

Program Agenda

**Multipurpose
Room (MPR)**

Oral Presentations 4 (5 mins talk + 2 mins Q&A)

Judges: David Shultz, Alex Vitkin

Moderator: Dylan Yamabe Breitkreut

| # & Time | Title | Presenters |
|-------------------------------|--|--|
| #O20-25 3:30 – 4:12 | DCE-MRI–Based Quantification of Tumour Transport and Microenvironment Heterogeneity Using the Cross-Voxel eXchange Model #O20 | Janny Kim , <i>STARS21 Scholar</i> Supervisor: Catherine Coolens |
| | Quantifying the Impact of Growth, Pathology and Imaging Sequence on Spatial Normalisation for Paediatric Late Effect Research #O21 | Denis Page , <i>External/visiting STARS21 Scholar</i> Supervisor: Marianne Aznar |
| | Atlas-based Prediction of Plan Quality and Treatment Time for Gamma Knife Stereotactic Radiosurgery of Brain Metastases #O22 | Nico Arezza , <i>Physics Resident</i> Supervisor: Anthony Lausch, Robert Heaton, Catherine Coolens |
| | Molecular and Clinical Correlates of Extrachromosomal DNA in Oral Squamous Cell Carcinoma #O23 | Lucas Penny , <i>Graduate Student</i> Supervisor: Scott Bratman |
| | Human Papillomavirus Circulating Tumor DNA for Risk Stratification in Cervical Cancer #O24 | Emma Collier , <i>Graduate Student</i> Supervisor: Scott Bratman |
| | Atomically Precise NHC-Stabilized Gold Nanoclusters for Enhanced Photodynamic and X-Ray–Activated Cancer Therapy #O25 | Hetvi Shah , <i>STARS21 Scholar</i> Supervisor: Gang Zheng |
| 4:15 – 4:30 | Closing Remarks | David Hodgson / Vice-Chair, Research, UTDR0 |
| 4:30 – 6:00 | Pre-function Area | Social + Award Presentation (starts at 5:00 PM) |