



CancerCare Manitoba  
*ActionCancerManitoba*

# RESEARCH DAY

**Tuesday, October 25, 2022**

8:30 AM - 3:30 PM

Theatre A

Basic Medical Sciences Building

University of Manitoba



CancerCare Manitoba  
RESEARCH INSTITUTE

*ActionCancerManitoba*  
INSTITUT DE RECHERCHE

*Care through Discovery*

## KEYNOTE PRESENTATION:

### Dances of the Cure-abbean: Kaiso, Cancer Disparities and People of African Ancestry



Our Keynote Speaker will join us in-person:

### **Dr. Juliet Daniel PhD**

Professor and Associate Dean of Research and External Relations, Faculty of Science, McMaster University

**12:00 p.m. - 1:00 p.m (CDT—Winnipeg)**  
**Theatre A, Basic Medical Sciences Building**

Attendees may join via Zoom:

Meeting ID: 654 6203 6356

Passcode: 651671

Professor Juliet Daniel is a Cancer Biologist and the Associate Dean of Research and External Relations in the Faculty of Science at McMaster University. She received her BSc from Queens University, her PhD from UBC, and completed Postdoctoral studies at St Jude Children’s Research Hospital and Vanderbilt University in Tennessee. Prof. Daniel’s research is focused on elucidating the role of the transcription factor Kaiso in cancer and vertebrate development. Her team is also currently elucidating the molecular/genetic causes of the disparities in incidence and poor outcomes of triple negative breast cancer in Black women. In recognition of her research and community service, Prof. Daniel has received several awards including the inaugural Canadian Cancer Society Inclusive Excellence Award, an Honorary Doctor of Science from the University of the West Indies (UWI) Cave Hill, a UWI Vice Chancellors Award, and a WXN Canada’s Most Powerful Women: Top 100 Award among many others.

## PANEL FOR ORAL PRESENTATIONS

**Dr. Juliet Daniel, PhD**

Professor and Associate Dean of Research and External Relations, Faculty of Science, McMaster University

**Dr. Naseer Ahmed, MD**

Associate Professor, Department of Radiology, University of Manitoba  
Clinician, Department of Radiation Oncology, CancerCare Manitoba  
Affiliate Scientist, CancerCare Manitoba Research Institute

**Dr. David Dawe, MD**

Assistant Professor, Department of Internal Medicine, University of Manitoba  
Clinician, Department of Medical Oncology and Hematology, CancerCare Manitoba  
Affiliate Scientist, CancerCare Manitoba Research Institute

**Pascal Lambert, MSc**

Health Outcomes Analyst, Department of Epidemiology and Cancer Registry, CancerCare Manitoba  
and CancerCare Manitoba Research Institute

**Dr. Susan Logue, PhD**

Assistant Professor, Department of Human Anatomy and Cell Science, University of Manitoba  
Adjunct Scientist, CancerCare Manitoba Research Institute

**Dr. Cedric Tremblay, PhD**

Assistant Professor, Department of Immunology, University of Manitoba  
Scientist, CancerCare Manitoba Research Institute

**Dr. Issai Vanan, MD**

Assistant Professor, Department of Pediatrics & Child Health, University of Manitoba  
Clinician, Department of Pediatric Oncology, CancerCare Manitoba  
Scientist, CancerCare Manitoba Research Institute



## PANEL FOR POSTER PRESENTATIONS

**Dr. Juliet Daniel, PhD**

Professor and Associate Dean of Research and External Relations, Faculty of Science, McMaster University

**Oliver Bucher, MSc**

Team Lead—Epidemiology, Department of Epidemiology and Cancer Registry, CancerCare Manitoba

**Dr. Michael Charette, PhD**

Assistant Professor, Department of Chemistry, Brandon University  
Adjunct Scientist, CancerCare Manitoba Research Institute

**Dr. Danielle Desautel, MD**

Associate Professor, Department of Internal Medicine, University of Manitoba  
Clinician, Department of Medical Oncology and Hematology, CancerCare Manitoba

**Dr. Sachin Katyal, PhD**

Associate Professor, Department of Pharmacology and Therapeutics, University of Manitoba  
Senior Scientist, CancerCare Manitoba Research Institute

**Dr. Christina Kim, MD**

Associate Professor, Department of Internal Medicine, University of Manitoba  
Clinician, Department of Medical Oncology and Hematology, CancerCare Manitoba

**Dr. Joel Pearson, PhD**

Assistant Professor, Department of Pharmacology and Therapeutics, University of Manitoba  
Scientist, CancerCare Manitoba Research Institute

**Dr. Lawrence Ryner, PhD**

Adjunct Professor, Department of Physics, University of Manitoba  
Medical Physicist, Department of Medical Physics, CancerCare Manitoba  
Scientist, CancerCare Manitoba Research Institute

**Dr. Afshin Raouf, PhD**

Associate Professor, Department of Immunology, University of Manitoba  
Senior Scientist, CancerCare Manitoba Research Institute



**ORAL PRESENTATIONS — Tuesday, October 25, 2022**

**Location: Theatre A, Basic Medical Sciences Building**

8:30 a.m.	<b>OPENING REMARKS</b> Dr. Kathleen Decker, Co-Chair, CCMB Research Day Committee
8:40 a.m.	Salem Alfaifi — Resident Physician, Radiation Oncology, University of Manitoba <b>Single fraction peripheral lung SBRT during the global COVID-19 pandemic at CancerCare Manitoba: An analysis of technical feasibility and clinical safety</b> Supervisor: Dr. Bashir Bashir
8:55 a.m.	Vibhuti Arya — Masters, Physiology and Pathophysiology, University of Manitoba <b>CANFLAX: Can flaxseed “milk” prevent broken hearts in women with breast cancer?</b> Supervisors: Drs. Davinder Jassal and Marshall Pitz
9:10 a.m.	Catherine Giffin — BSc Med, Thoracic Surgery, University of Manitoba <b>A Multi Centre Study Evaluating the Risks and Benefits of Intra-Operative Steroids During Pneumonectomy</b> Supervisor: Dr. Biniam Kidane
9:25 a.m.	Danyyl Ippolitov — Masters, Human Anatomy and Cell Science, University of Manitoba <b>Neuregulin-1 is a pro-survival factor for brain metastatic HER2+ breast cancer cells</b> Supervisors: Drs. Sabine Hombach-Klonisch and Thomas Klonisch
9:40 a.m.	Sangyang Jia — Resident Physician, Internal Medicine, University of Manitoba <b>Cancer Outcomes for Patients with Lynch Syndrome in Manitoba</b> Supervisors: Drs. Christina Kim and Harminder Singh
9:55 a.m.	Charith Karunatilake — BSc Med, Internal Medicine, University of Manitoba <b>Does prophylactic broncho-alveolar lavage during lung surgery reduce risk of post-operative respiratory complications?</b> Supervisor: Dr. Biniam Kidane
10:10 a.m.	<b>20 MINUTE BREAK</b> <i>Refreshments available in the JDpe Concourse, 2nd floor, Basic Medical Sciences Building</i>
10:30 a.m.	Leann Lac — PhD, Computer Science, University of Manitoba <b>scGMM-VGAE: A Gaussian mixture model-based variational graph autoencoder algorithm for clustering single-cell RNA-seq data</b> Supervisors: Drs. Pingzhao Hu and Carson Leung
10:45 a.m.	Feryal Ladha — Summer Student, Biochemistry and Medical Genetics, University of Manitoba <b>The incorporation of single cell sequencing data to develop a polygenic risk score to predict cisplatin-induced tinnitus</b> Supervisor: Dr. Britt Drögemöller



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11:00 a.m.	Dhasni Muthumuni — Resident Physician, Psychiatry, University of Manitoba <b>Feasibility and Acceptability of a Virtual ‘Coping with Brain Fog’ Intervention for Young Adults with Cancer</b> Supervisor: Dr. Sapna Oberoi
11:15 a.m.	Gideon Ong — PhD, Human Anatomy and Cell Science, University of Manitoba <b>Investigating UPR Mediator Crosstalk During Endoplasmic Reticulum Stress</b> Supervisor: Dr. Susan Logue
11:30 a.m.	<b>30 MINUTE LUNCH BREAK</b> <i>Meal and Refreshments available in the JDpe Concourse, 2nd floor, Basic Medical Sciences Building</i>
12:00 p.m.	<b>KEYNOTE PRESENTATION:</b> <b>Dances of the Cure-abbean: Kaiso, Cancer Disparities and People of African Ancestry</b> Dr. Juliet Daniel, Professor and Associate Dean of Research and External Relations, Faculty of Science, McMaster University  Attendees may join via Zoom: Meeting ID: 654 6203 6356 Passcode: 651671
1:00 p.m.	Erin McAndrews — Resident Physician, Internal Medicine, University of Manitoba <b>Characteristics, treatment patterns and outcomes of patients receiving HER2-directed therapy for HER2-positive metastatic breast cancer in Manitoba</b> Supervisors: Drs. Christina Kim, Danielle Desautels and Jeffrey Graham
1:15 p.m.	Vibhay Pareek — Clinical Fellow, Radiation Oncology, University of Manitoba <b>Risk of Second Malignancy Among Non-Metastatic Seminoma Patients Treated with Radiation Therapy and Chemotherapy in Manitoba</b> Supervisors: Drs. Rashmi Koul and Bashir Bashir
1:30 p.m.	Jonathan Redekopp — Masters, Physics & Astronomy, University of Manitoba <b>Automated measurements of patient position during DIBH Breast Hybrid IMRT using EPID images</b> Supervisors: Drs. Jorge Alpuche and Stephen Pistorius
1:45 p.m.	Kailee Rutherford — PhD, Biochemistry and Medical Genetics, University of Manitoba <b>Diminished USP4 Expression Drives Chromosome Instability with Implications in Colorectal Cancer Development</b> Supervisor: Dr. Kirk McManus



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2:00 p.m.	<p>Sara Telles-Langdon — Masters, Physiology and Pathophysiology, University of Manitoba</p> <p><b>Is flaxseed equivalent and/or synergistic with ACE inhibition in the treatment of chemotherapy mediated cardiotoxicity?</b></p> <p>Supervisors: Drs. Davinder Jassal and Pawan Singal</p>
2:15 p.m.	<p>Jamie Zagozewski — Post-Doctoral Fellow, Biochemistry &amp; Medical Genetics, University of Manitoba</p> <p><b>OTX2 is a novel regulator of alternative splicing in Group 3 medulloblastoma</b></p> <p>Supervisor: Dr. Tamra Ogilvie</p>
2:30 p.m.	<p><b>30 MINUTE BREAK</b></p> <p>Ranking of Presentations by Oral and Poster Judges Moderators: Drs. Kathleen Decker and Brett Houston, Co-Chairs, CCMB Research Day Committee Theatre A, Basic Medical Sciences Building</p>
3:00 p.m.	<p><b>PRESENTATION OF AWARDS</b> Dr. Boyd McCurdy, CCMR Interim Leadership Team</p> <p><b>CLOSING REMARKS</b> Dr. Brett Houston, Co-Chair, CCMB Research Day Committee</p>



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**Location: Concourse, 2nd floor, Basic Medical Sciences Building**

Poster # 1 10:30 a.m.	Parandoush Abbasian— PhD, Medical Physics, University of Manitoba <b>Personalizing glioblastoma radiation treatment margins using advanced MRI</b> Supervisors: Drs. Lawrence Ryner and Boyd McCurdy
Poster # 2 10:45 a.m.	Tyler Anderson — Masters, Pharmacology & Therapeutics, University of Manitoba <b>Studying the role of IL-7/IL-7R and ZEB2 in Solid Tumor Settings</b> Supervisor: Dr. Jody Haigh
Poster # 3 11:00 a.m.	Leanne Arreza— Masters, Human Anatomy & Cell Science, University of Manitoba <b>Investigating a novel CTRP8-DLK1 interaction and its role in gliomas</b> Supervisor: Dr. Thomas Klonisch
Poster # 4 11:15 a.m.	Viboushann Arunasalam— Masters, Human Anatomy & Cell Science, University of Manitoba <b>Contribution of IRE1 to Cytokine/Chemokine Production Post-Chemotherapy in Triple-Negative Breast Cancer Cells</b> Supervisor: Dr. Susan Logue
Poster # 5 1:00 p.m.	Anna Blankstein — Resident Physician, Internal Medicine, University of Manitoba <b>Evaluation of Infection in Patients with Acute Myeloid Leukemia Treated with Hypomethylating Agents: A Systematic Review</b> Supervisor: Dr. Brett Houston
Poster # 6 1:15 p.m.	Rubi Campos Gudino— Masters, Biochemistry and Medical Genetics, University of Manitoba <b>Assessing the Impact Reduced EMI1 Expression has on Chromosome Instability in Colorectal Cancer</b> Supervisor: Dr. Kirk McManus
Poster # 7 1:30 p.m.	Courtney Clark— Masters, Human Anatomy and Cell Science, University of Manitoba <b>BCL2L13 and Glioblastoma TMZ-Chemoresistance</b> Supervisor: Dr. Saeid Ghavami
Poster # 8 1:45 p.m.	Matthew Kulchycki — Summer Student, Internal Medicine, University of Manitoba <b>Aerobic physical activity for depression among patients with cancer: A systematic review and meta-analysis</b> Supervisors: Drs. Sapna Oberoi and Ahmed Abou-Setta



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Poster # 9 10:30 a.m.	Simone Da Silva Rosa — Post-Doctoral Fellow, Human Anatomy and Cell Science, University of Manitoba <b>The Role of BCL2L13 in Regulation of Ceramides Biosynthesis in Non-Small Cell Lung Cancer Metastasis and Anoikis Resistance</b> Supervisor: Dr. Saeid Ghavami
Poster # 10 10:45 a.m.	Sheen Dube — Summer Student, Radiology, University of Manitoba <b>Meningioma Grading via Diagnostic Imaging - A Systematic Review and Meta-Analysis</b> Supervisor: Dr. Jai Shankar
Poster # 11 11:00 a.m.	Matheus Fabiao De Lima— Masters, Physiology & Pathophysiology, University of Manitoba <b>Lamin A/C-dependent remodeling of chromosome territories in Multiple Myeloma</b> Supervisor: Dr. Sabine Mai
Poster # 12 1:00 p.m.	Ally Farrell— Masters, Biochemistry & Medical Genetics, University of Manitoba <b>Exploiting the SCF Complex to Identify Novel Therapeutic Targets in High-Grade Serous Ovarian Cancer</b> Supervisor: Dr. Kirk McManus
Poster # 13 1:15 p.m.	Yuliia Fedorova — Summer Student, Department of Biochemistry & Medical Genetics, University of Manitoba <b>Investigating putative intracellular signaling pathways contributing to L-Rham-GAEL-induced human ovarian cancer cell death</b> Supervisor: Dr. Mark Nachtigal
Poster # 14 1:30 p.m.	Courtney Geer— Masters, Chemistry, Brandon University <b>Protein translation is compromised in the Bowen-Conradi ribosomopathy</b> Supervisor: Dr. Michael Charette
Poster # 15 1:45 p.m.	Rosa Iranpour — Undergraduate, Human Anatomy and Cell Science, University of Manitoba <b>Statin and Glioblastoma</b> Supervisor: Dr. Saeid Ghavami
Poster # 16 2:00 p.m.	Diana Topolnitska— Masters, Immunology, University of Manitoba <b>The Immunobiology of Tumor-Adjacent Breast Tissue and Its Implication for Immunotherapy Response</b> Supervisor: Dr. Afshin Raouf



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Poster # 17 10:30 a.m.	Joadi Jacobs— BSc Med, Human Anatomy and Cell Science, University of Manitoba <b>BCL2L13 and TMZ Chemo-resistance in Glioblastoma: Role of Ceramide Synthase 2 and 6</b> Supervisor: Dr. Saeid Ghavami
Poster # 18 10:45 a.m.	Lisa Liang — Post-Doctoral Fellow, Biochemistry and Medical Genetics, University of Manitoba <b>Combined MEK and JAK/STAT3 pathway inhibition effectively decreases SHH medulloblastoma tumor progression</b> Supervisor: Dr. Tamra Ogilvie
Poster # 19 11:00a.m.	Nicole Russel— Undergraduate, Chemistry, Brandon University <b>Intrinsically Disordered Regions Play an Important Role in the Assembly and Function of the SSU Processome in Ribosome Biogenesis</b> Supervisor: Dr. Michael Charette
Poster # 20 11:15 a.m.	Anmol Mann— BSc Med, Internal Medicine, University of Manitoba <b>Acetyl-Amantadine as a Diagnostic Biomarker in Patients with Glioblastoma</b> Supervisor: Dr. Marshall Pitz
Poster # 21 1:00 p.m.	Deanne Nixie Miao— Masters, Department of Biochemistry & Medical Genetics, University of Manitoba <b>Development of a Polygenic Score to Predict Cisplatin-Induced Ototoxicity</b> Supervisor: Dr. Britt Drögemöller
Poster # 22 1:15 p.m.	Braydon Nault— Masters, Biology, Brandon University <b>Oncogenic miRNA regulate expression of ATP synthase subunit ATP5F1A in breast cancer</b> Supervisor: Dr. Mousumi Majumder
Poster # 23 1:30 p.m.	Nicole Neudorf— Masters, Biochemistry and Medical Genetics, University of Manitoba <b>Determining the Impact Reduced SKP2 Expression has on Chromosome Stability in Colonic Epithelial Cells</b> Supervisor: Dr. Kirk McManus
Poster # 24 1:45 p.m.	Emma Martell — PhD, Human Anatomy & Cell Science and Pathology, University of Manitoba <b>Targeting metabolism as a novel therapeutic strategy to suppress oncogenic c-MYC in group 3 medulloblastoma brain tumors</b> Supervisor: Dr. Tanveer Sharif



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Poster # 25 1:00 p.m.	Reid Opperman— Masters, Environmental & Life Sciences, Brandon University <b>Investigating Oxidative Stress-Induced Senescence in microRNA-Overexpressing Breast Cancer</b> Supervisor: Dr. Mousumi Majumder
Poster # 26 1:15 p.m.	Camila Lopez Moreno — Post-Doctoral Fellow, Immunology, University of Manitoba <b>A new breast tumor organoid culture system enables study of drug resistance in the context tumor microenvironment</b> Supervisor: Dr. Afshin Raouf
Poster # 27 1:30 p.m.	Maxim Skorodinsky— Co-op student, Microbiology, University of Manitoba <b>Frailty and CLL: Linking Inflammation and Metabolism with Frailty Chronic Cancers</b> Supervisors: Drs. Versha Banerji and David Dawe
Poster # 28 1:45 p.m.	Neelan Sriranjani— Resident Physician, Internal Medicine, University of Manitoba <b>Evaluation of bleeding and thrombocytopenia in older adults with acute myeloid leukemia treated with hypomethylating agents: a systematic review and meta-analysis</b> Supervisor: Dr. Brett Houston
Poster # 29 2:00 p.m.	Quinn Tays — Masters, Pharmacy, University of Manitoba <b>Impact of heparin type on clinical outcomes in hospitalized moderately ill patients with COVID-19</b> Supervisors: Drs. Ryan Zarychanski, Jamie Falk and Brett Houston
Poster # 30 2:15 p.m.	Chantal Tian — Resident Physician, Internal Medicine, University of Manitoba <b>15-year population-based review of Acquired Hemophilia A in Manitoba, Canada</b> Supervisors: Drs. Emily Rimmer, Ryan Zarychanski and Donald Houston
Poster # 31 2:30 p.m.	Jui Chih Cheng— Resident Physician, Radiation Oncology, University of Manitoba <b>Endobronchial Implanted Real-Time Radiofrequency (RF) Transponder Beacon Guided, Respiratory-Gated, Stereotactic Body Radiotherapy for Moving Lung Tumours: Interim analysis of a prospective phase I/II cohort study</b> Supervisor: Dr. Julian Kim

**CancerCare Manitoba would like to thank all of our generous donors who supported  
Research Day through our Foundation**



*All funds raised stay in Manitoba.*

**2022 CancerCare Manitoba Research Day Committee:**

**Dr. Brett Houston, MD PhD (Co-Chair)**

Hematologist, CancerCare Manitoba  
Assistant Professor, Department of Internal Medicine, University of Manitoba  
Scientist, CancerCare Manitoba Research Institute

**Dr. Kathleen Decker, PhD (Co-Chair)**

Senior Scientist and Lead, Health Services Research Platform, CancerCare Manitoba Research  
Institute  
Senior Epidemiologist, CancerCare Manitoba  
Associate Professor, Department of Community Health Sciences, University of Manitoba

**Dr. Boyd McCurdy, PhD**

Interim Leadership Team, CancerCare Manitoba Research Institute  
Head, Radiation Oncology Physics Group, CancerCare Manitoba  
Associate Professor, Department of Physics and Astronomy and Department of Radiology,  
University of Manitoba

**Ashley Sitarz, BSc**

Administrative Officer, CancerCare Manitoba Research Institute

**Jaclyn Javier**

Resource Coordinator, Radiation Oncology Program, CancerCare Manitoba

