

3rd Annual Ajmera Transplant Research Day Conference

June 14th, 2024

MaRS Discovery District – 9th Floor Transplant Innovation Centre (Rooms: 9005, 9006, 9119 and 9032)
+ Poster Presentations - DeGasperi Conservatory, Toronto General Hospital (Peter Munk Building, 4th floor)

New Insights into Allograft Rejection

8:30 am – 9:00 am	Registration
9:05 am – 9:10 am	<p>Introduction by Stephen Juvet, MD, PhD, FRCPC Assistant Professor, Division of Respiriology and Toronto Lung Transplant Program, Department of Medicine, University Health Network, University of Toronto</p> <p>CHAIR: Tereza Martinu, MD, MHS Clinician-Scientist, Toronto Lung Transplant Program, Ajmera Transplant Centre Associate Professor of Medicine, University of Toronto Scientist, Toronto General Hospital Research Institute</p>
9:10 am – 9:55 am	<p><u>Keynote Speaker</u> Stephen Juvet, MD, PhD, FRCPC Assistant Professor, Division of Respiriology and Toronto Lung Transplant Program, Department of Medicine, University Health Network <i>Beyond Repair? Looking Under the Hood at the Cellular Engines Driving Lung Allograft Failure</i></p> <p><i>(8mins present + 3 mins questions)</i></p>
9:56 am - 10:07 am	<p>Martin Mak <i>Defining Protective and Pathogenic Resident Immune Cells In Kidney Transplantation</i></p>
10:07 am - 10:18 am	<p>Ankita Burman <i>Single-cell RNA Sequencing Provides Insights into Intra-graft B cell Complexity in Chronic Lung Allograft Dysfunction (CLAD)</i></p>
10:18 am - 10:29 am	<p>Stefan Petrovic <i>Molecular Landscape of Kidney Allograft Tissues Data Integration Portal (NephroDIP): A Curated Database to Improve Integration of High-throughput Kidney Transplant Datasets</i></p>
10:30 am – 10:45 am	Health Break

Ajmera Research Fellowship Recipient Presentations (10 mins each Presentation + 2 mins Discussion)

Session 10:45 am – 12:00 pm	CHAIR: Cynthia Tsien/(Trainee Fellow) Cynthia Tsien, PhD, MDCM, MPH, FRCPC Assistant Professor, University of Toronto Transplant Hepatologist, Education Director, Ajmera Transplant Centre
10:50 am – 11:02 am	Yajin Zhao, Post-Doctoral Research Fellow <i>PANoptosis as a Notable Characteristic in Ischemia-Reperfusion During Human Lung Transplants and Its Clinical Relevance</i>
11:02 am – 11:24 am	Tsukasa Ishiwata, Clinical Fellow (recorded) <i>Transcriptome profiling of lung allograft biopsies to predict chronic lung allograft dysfunction</i>
11:24 am – 11:36 am	Brunna Martins, Post-Doctoral Research Fellow <i>Protection against hypoxia-induced cell death of Hepatocytes and Kupffer cells by NIN1 inhibition</i>
11:36 am – 11:48 am	Kieran P. Manion, Post-Doctoral Research Fellow <i>Parsing the Role of miRNA in Kidney Transplant ABMR</i>
11:48 am – 12:00 pm	Sasan Hosseini, MD, MSc, MPH <i>Comparison of the incidence trends and outcomes of Pneumocystis pneumonia in solid-organ transplant (SOT) recipients and non-transplant patients: a provincial population based study 2002-2022, Ontario, Canada</i>

Posters & Lunch Break

12:00 pm – 1:00 pm	Lunch and Posters Set up- DeGasperis Conservatory, Toronto General Hospital (Peter Munk Building, 4th floor) Lunch - MaRS Discovery District – 9th Floor Transplant Innovation Centre (Rooms: 9005, 9006, 9119 and 9032)
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Update of Clinical and Translational Research at Ajmera Transplant Centre (12 mins. + 3 mins discussion each)

1:00 pm – 1:05 pm	CHAIR: Stephen Juvet, MD, PhD, FRCPC Assistant Professor, Division of Respiriology and Toronto Lung Transplant Program, Department of Medicine, University Health Network
1:05 pm – 1:20 pm	Atul Humar, MD, MSc, FRCPC George & Terrie Eaton Family Chair in Transplant Infectious Diseases Research, Ajmera Transplant Centre, University Health Network Professor of Medicine, Infectious Diseases, University of Toronto CMV in SOT

1:20 pm – 1:35 pm	<p>Ana Konvalinka, MD, PhD, FRCPC Transplant Nephrologist, Clinician Scientist Department of Medicine, Division of Nephrology University Health Network Associate Professor, University of Toronto Senior Scientist, Toronto General Hospital Research Institute Director, Ajmera Transplant Centre Multi-organ Transplant Biobank <i>Proteomics in SOT</i></p>
1:35 pm – 1:50 pm	<p>Dr. Megan Aversa & Aizhou Wang <i>ABO incompatible Transplantation</i></p> <p><i>(Oral Abstracts - 8 mins each Presentation + 2 mins Discussion)</i></p>
1:50 pm – 2:05 pm	<p>Daniel Vosoughi <i>A Combinatorial Serum Autoantibody (AAB) Biomarker Associated with Future CLAD</i></p>
2:05 pm – 2:15 pm	<p>Michael J. Cooper <i>DynaMELD: A Dynamic Model of End-Stage Liver Disease for Equitable Prioritization</i></p>
2:15 pm – 2:25 pm	<p>Joseph Chon <i>Predict Chronic Renal dysfunction in Liver Transplant Patients using Machine Learning</i></p>
2:25 pm – 2:35 pm	<p>Rayoun Ramendra <i>Early post-transplant airway IL-5 and eosinophilia are associated with baseline lung allograft dysfunction and impaired allograft survival</i></p>
2:35 pm – 2:45 pm	<p>Lebei Pi <i>Moving Beyond the Perfect Donor: Quality Improvement (QI) Initiative to Optimize Donor Utilization</i></p>
2:45pm – 3:00 pm	<p>Dr. Gonzalo Sapisochin, MD, PhD, MSc LeGresley Chair in Transplant Oncology at UHN Associate Professor of Surgery Abdominal Transplant & HPB Surgical Oncology Toronto General Hospital & Princess Margaret Cancer Centre University Health Network, University of Toronto <i>Liver Transplantation in Patients with Malignancy</i></p>
3:01 pm – 3:09 pm	<p><i>*Short Break While the Rooms are Separated for Parallel Sessions*</i></p>

***Parallel Sessions* (Rooms; 9006 & 9005 w/ 9119 as overflow for room 9005)**

Ex Vivo (45 mins) 7 mins + 2 mins each		Quality Improvement, Nursing And Health Disciplines in Transplantation (45 mins) 7 mins + 2 mins each	
3:10 pm – 3:15 pm	<u>CHAIR:</u> Dr. Marcelo Cypel	3:10 pm – 3:15 pm	<u>CHAIR:</u> Nikki Marks

3:15 pm – 3:24 pm	Aizhou Wang, PhD <i>Ex vivo modifications of donor lung endothelium to remove blood group antigens</i>	3:15 pm – 3:24 pm	Sahar Sohrabipour <i>Characterizing Rehabilitation Programs for Solid Organ Transplant Patients Across Canada</i>
3:24 pm – 3:33 pm	Thomas Borrillo <i>Clinical validation of a machine learning model that predicts donor organ suitability during ex vivo lung perfusion</i>	3:24 pm – 3:33 pm	Sonia Rodriguez <i>Re-imagining transplant day unit at the ATC: TDU 2.0 - developing clinical pathways</i>
3:33 pm – 3:42 pm	Yamato Suzuki <i>A model for mouse ex vivo lung perfusion (EVLP) followed by orthotopic lung transplantation</i>	3:33 pm – 3:42 pm	Chaya Shwaartz, MD Assistant Professor of Surgery Abdominal Transplant & HPB Surgical Oncology, University Health Network, University of Toronto <i>Animated education modules to assess satisfaction and shared decision making in liver transplant recipients and candidates</i>
3:42 pm – 3:51 pm	Gabriel Siebiger <i>Itaconate Supplementation in Organ Preservation Solution Leads to Improvement in Donor Lung Function After Extended Hypothermic Preservation in a Pre-Clinical Model</i>	3:42 pm – 3:51 pm	Nikki Marks, MN NP & Danielle Jepson, MScPT <i>TG-TRI Care Collab: enhancing collaboration between TGH and TRI to optimize quality of care</i>
3:51 pm – 4:00 pm	Guillermo Garza <i>Membraneless Perfusion - a Novel Technique for Ex Vivo Lung Perfusion</i>	3:51 pm – 4:00 pm	Pei Xuan (Rachel) Chen, RN, BScN, HBSc <i>Improving the quality and continuity of discharge patient education at the ATC</i>
4:00 pm – 4:15 pm	Health Break		

New Horizons in Transplantation

4:15 pm – 4:20 pm	<u>CHAIR:</u> Blayne Sayed
4:20 pm – 5:05 pm	State of the Art Lecture Dr. Anita S. Chong, Ph.D Professor, Department of Surgery, University of Chicago <i>Allogeneic Conflict in Pregnancy and Transplantation</i>

(9 mins + 3 mins)

- 5:05 pm – 5:14 pm **Shiyuan Bian**
Moderate Mechanical Ventilation Results in Enhanced Re-epithelialization of Decellularized Lung Scaffolds
- 5:14 pm – 5:23 pm **Nicole Chrysler**
Measurement of T Cell Alloreactivity in Lung Transplant Recipients Using Imaging Flow Cytometry
- 5:23 pm – 5:32 pm **Faraz Chogan**
Enhancing Burn Healing with Decellularized 3D Bioprinted Skin Substitute Reinforced by Biodegradable Polymers

- 5:35 pm – 5:50 pm **Award Presentations**
- 5:50 pm – 6:00 pm Concluding Remarks (5 – 10 mins)
- 6:00 pm – 7:30 pm **Poster Presentations & Post Conference Social Event**

We would like to thank the sponsors of the 3rd Annual Ajmera Transplant Centre Education & Research Day Conference series held June 13 – 14, 2024



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