

**Department of Surgery's 52<sup>nd</sup> Gallie Day**  
**Friday, May 1, 2026 | MaRS Auditorium**

**Defining the Future of Surgery:**  
**Where Will Surgical Simulation and Robotic Technologies Lead Us?**

**Event Chair: Dr. Michael Fehlings, Vice Chair Research**  
**Session Coordinators: Dr. Yosef Ellenbogen, Dr. Asha Behdinin, and Renata Musa**

**7:30 - 8:00 BREAKFAST**

**8:00 - 8:10** Opening Remarks: Dr. Michael G. Fehlings, Dr. Carol Swallow

**GALLIE-BATEMAN, MCMURRICH AND TRANSLATIONAL RESEARCH PRESENTATIONS | Session Chair: Dr. Kathryn Howe**

**8:10 – 8:25** **Matteo Ponzone**, Libo Zhang, Jennifer Zhang, Kaley Hogarth, Julia Kakish, Loukmane Karim, Ramesh B. Vanama, Jason T. Maynes, John G. Coles: *“Mechanical Stress-Driven Cellular Senescence Underlies Progressive Fibrotic Remodeling in Fontan-Associated Liver Disease (FALD)”*

**8:25 – 8:40** **Ziyad Khatib**, Takuto Yoshida, Hoseok Seo, Danial Aghlari, Caterina Masino, Filippo Federiconi, Carlo La Sala, Chinedu Nwoye, Emanuele De Santis, Anannya Popat, Zhaoxun Liu, Amanda Li, Pietro Mascagni, Marilena Venditelli, Wagner H. Souza, Amin Madani: *“Scaling Surgical Coaching Through Automated Analysis of Surgical Behaviour Using Artificial Intelligence”*

**8:40 – 8:55** **Christopher S Lozano (SSTP)**, Vishwathsen Karthikeyan, Barbara Haas, Karlo Pedro, Jasleen Saini, Michael G Fehlings, Jefferson R Wilson: *“Returning Home After Spinal Cord Injury: A Population-Based Evaluation of Healthcare Costs, Recovery, and Value”*

**8:55 – 9:10** **Natasha Barone**, Muhammad Nasser, Daniel Antfle, Jonathan Persitz, Kevin J Zuo: *“Dorsal Versus Palmar Approach for Trigger Finger Corticosteroid Injection: A Randomized Controlled Trial of Patient-Reported Pain”*

**9:10 – 9:25** **Matthew Raleigh (SSTP)**, Stephane Gagnon, Kalter Hali, Amir Khoshbin, Kim Connelly, Emil Schemitsch, Aaron Nauth: *“Endothelial Progenitor Cell Therapy for the Treatment of Nonunions - Towards Translation”*

**9:25 – 9:40** **William McIntyre**, Azam Asgarihafshejani, Sogolie Kouhzaei, Kathleen Wang, Mohammad Khazaei, Michael Fehlings: *“Regional Spinal Cord Identity of Neural Progenitor Cells Promotes Balanced Synaptic Function and Motor Recovery Following Traumatic Cervical Spinal Cord Injury”*

**9:40 - 10:40 E-POSTER PRESENTATIONS**

**SYMPOSIUM: THE FUTURE IS NOW: ROBOTICS AND SURGICAL SIMULATION**

**Session Chair: Dr. Michael G. Fehlings, Vice Chair Research**

**10:40 – 10:55** **Dr. Derrick Tam**: *“Simulation in Robotic Cardiac Surgery: A Paradigm Shift in Learning Mitral Repair”*

**10:55 – 11:10** **Dr. Dale Podolsky**: *“Toward Miniaturized Robotic Instrumentation: Design and Development”*

**11:10 – 11:25** **Dr. Laura Donahoe**: *“Teaching Senior Learners: Technical Skill Simulation for Thoracic Surgery”*

**11:25 – 11:40** **Dr. Chaya Shwaartz**: *“Building a Simulation Ecosystem at UHN: From Idea to Impact”*

**11:40 – 12:10** **Panel discussion**: Ram Nataraja, Derrick Tam, Dale Podolsky, Laura Donahoe, Chaya Shwaartz, Stanley Hamstra

**12:10 - 13:00 BREAK FOR LUNCH**

**13:00 – 14:00 GORDON MURRAY LECTURE**

**Professor Ram Nataraja**



- Professor of Simulation-Based Education in the Department of Paediatrics.

- Director of Monash Children’s Simulation, Monash Children's Hospital & Monash University Department of Paediatrics.

**“Driving Change: The Impact of Low-Cost Simulation-Based Educational Innovations in Resource-Limited Settings”**

**14:00 - 15:00 E-POSTER PRESENTATIONS**

**GALLIE-BATEMAN, MCMURRICH AND TRANSLATIONAL RESEARCH PRESENTATIONS | Session Chair: Dr. Farshad Nassiri**

**15:00 – 15:15** **Akihiro Nagoya**, Kumi Mesaki, Jenny Yune, Aizhou Wang, Zehong Guan, Yue Xu, Songtao Dong, Amy Strilchuk, Bowen Li, Stephen Juvet, Marcelo Cypel, Mingyao Liu, Shaf Keshavjee: *“Optimization of Non-viral Lipid Nanoparticle Mediated Gene Delivery for Donor Lung Engineering”*

**15:15 – 15:30** **Nitish K. Dhingra (SSTP)**, Victor L. Alcantara, Adam D. Devore, Shelley A. Hall, Kiran K. Khush, Sharon Chih, Lauren Truby, Marisa Signorile, Farid Foroutan, Joan Guzman Bofarull, Koji Takeda, Eduard Rodenas-Alesina, Jiho Han, Gene Kim, Luciano Potenza, Joseph Lerman, Marta Farrero Torres, Marisa G. Crespo-Leiro, Mercedes Rivas-Lasarte, Roxana Moayedifar, Laura Hastenteufel, Chun-Po. Steve Fan, David Couto Mallon, Helen Luikart, Erik Henricksen, Mario Sabatino, Maxime Tremblay-Gravel, Pierre-Emmanuel Noly, Robert J. Miller, Andreas Zuckermann, Maryjane Farr, Archer Martin, Filio Billia, Vivek Rao, Heather J. Ross, Seyed Alireza Rabi, Yasbanoo Moayedi: *“Outcomes of Pediatric Donors for Adult Recipients in Heart Transplantation: Insights from the International PGD Consortium”*

**15:30 – 15:45** **Ben Li (SSTP)**, Naomi Eisenberg, Derek Beaton, Douglas S Lee, Leen Al-Omran, Duminda N Wijeyesundera, Mohamad A Hussain, Ori D Rotstein, Elisa Greco, Charles de Mestral, Muhammad Mamdani, Graham Roche-Nagle, Mohammed Al-Omran: *“Predicting 1-Year Successful Clinical Use of an Arteriovenous Access for Hemodialysis Using Machine Learning”*

**15:45 – 16:00** **Daniyal Mahmood (SSTP)**, Yu Xuan (Amy) Huang, Farshad Tajeddini, Thomas Lindsay, Cristina Amon, Sean Crawford: *“Optimizing Computational Fluid Dynamics Simulation Inputs for Predicting Aneurysmal Degeneration After Uncomplicated Acute Type B Aortic Dissection”*

**16:00 – 16:15** **Adree Khondker**, Jin Kyu Kim, Michael E. Chua, Rodrigo Romao, Joana Dos Santos, Mandy Rickard, Armando J. Lorenzo: *“Redefining Urinary Tract Infection Risk for Children with Primary Obstructive Megaureter: A Call to Revisit Practice Guidelines”*

**16:15 – 16:30** **Stephanie Jiang (SSTP)**, Melanie Hammond, Carol-Anne Moulton: *“Sunset or Sunrise? Identity Motives and Meaning-Making in Retiring Surgeons”*

**16:30** **Wrap-up/Closing Remarks** - Dr. Michael Fehlings & Dr. Carol Swallow

**GORDON MURRAY BANQUET**

**Location: Queen’s Park Ballroom, Shangri-La Hotel, 188 University Avenue, Toronto, ON M5H 0A3**

**19:00** **Cocktail Reception**

**20:00** **Dinner & Awards Ceremony**