



SHARPMINDS:SKILLEDHANDS

Department of Surgery

# 41<sup>st</sup> GALLIE DAY

FRIDAY MAY 8, 2015

Gallie-Bateman & McMurrich

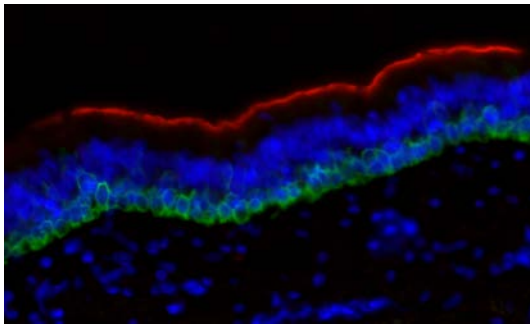
Research Presentations  
MaRS Centre Lower Concourse  
101 College Street

**Gordon Murray Lecturer**

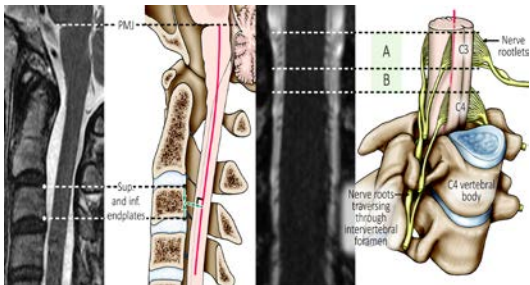


## Dr. Clifford Ko

Professor of Surgery,  
UCLA School of Medicine;  
Director, Division of  
Research and Optimal  
Patient Care, American  
College of Surgeons,  
Los Angeles, CA, USA



**Siba Haykal, Nadeem Moghal, Stefan O. Hofer, Thomas K. Waddell:** Native trachea. The goal of tracheal tissue-engineering and transplantation is to create a native trachea with a pseudostratified ciliated epithelium (Beta-tubulin- Alexa Fluor 568 (red)) and basal cells (Keratin 14- FITC (green)). All nucleated cells are stained with DAPI (blue).



**David W. Cadotte, Michael G. Fehlings:** High resolution T<sub>2</sub>-weighted imaging of the human spinal cord revealed substantial anatomical variation across subjects. Multi-parametric spinal cord imaging is now being used as a biomarker to delineate micro-structural and functional changes after spinal cord injury.

## IS BIGGER BETTER? OPPORTUNITIES, CHALLENGES AND LIMITATIONS OF BIG DATA IN HEALTH RESEARCH

Friday May 8, 2015 MaRS Centre, Lower Concourse  
7:30 a.m. Continental Breakfast and Registration  
7:45 ePoster Setup – Collaboration Centre Main Concourse

Session Committee: Val Cabral and Andrea McCart

8:00 Opening Remarks - Auditorium

Dr. James T. Rutka, R.S. McLaughlin Professor and Chair  
Dr. Michael G. Fehlings, Vice Chair Research

Gallie-Bateman and McMurrich Research Presentations

Session Chair: Gideon Cohen, Cardiovascular Surgeon

8:15 Hiroyuki Kawajiri: "Nrf2 protects against ischemia reperfusion injury via inhibition of Nf-Kb activation and suppresses subsequent development of cardiac allograft vasculopathy in murine heart transplantation" (Supervisor: Vivek Rao)

8:30 Andrea M. Covelli (SSTP): "Examining health-beliefs: Why mastectomies are on the rise" (Supervisors: Nancy N. Baxter, Frances C. Wright)

8:45 Spyridon Karadimas: "Early disruption of cervical propriospinal input onto the locomotor central pattern generator (CPG) underlies specific gait deficits in degenerative cervical myelopathy" (Supervisor: Michael G. Fehlings)

9:00 Karineh Kazazian (SSTP): "The protrusional protein polo-like kinase 4 (plk4) enhances cancer invasion" (Supervisor: Carol J. Swallow)

9:15 Mushriq Al-Jazrawe: "MicroRNA-29 mediates  $\beta$ -catenin induced proliferation of desmoid tumours via PDGFR $\beta$  signalling" (Supervisor: Benjamin A. Alman)

9:30 E-Poster Judging – MaRS Centre Café & CR2 – Main Floor

10:30 SYMPOSIUM: "Is Bigger Better? Opportunities, Challenges and Limitations of Big Data in Health Research"

Chair: Michael G. Fehlings, Vice Chair Research

♦ **Geoffrey Anderson**, Professor, Chair in Health Management Strategies, Department of Health Policy, Management and Evaluation, Faculty of Medicine, University of Toronto

"Linking Broad and Deep Data to Create the Infrastructure for Discovery Research"

♦ **Nancy Baxter**, Colorectal & General Surgeon, St. Michael's Hospital; Associate Professor, Department of Surgery, University of Toronto

"TITLE"

♦ **Steven Gallinger**, Head, Hepatobiliary/Pancreatic Surgical Oncology Program; Head, PanCuRx, Translational Initiative in Pancreas Cancer, OICR; Professor of Surgery, University of Toronto

"Big Data in Cancer Genetics Research - It Isn't Easy, but it's Worth It"

♦ **Avery B. Nathens**, Surgeon-in-Chief, Sunnybrook Health Sciences Centre; DeSouza Chair in Trauma Research; Professor of Surgery, University of Toronto

"From Crashes to Care to Prevention: Tales of Big Data in Injury Control"

12:00 pm Lunch and Poster Viewing

1:05 GORDON MURRAY LECTURE: Dr. Clifford Ko (Professor of Surgery, UCLA School of Medicine; Director, Division of Research and Optimal Patient Care, American College of Surgeons)

"Perspectives on Data for Achieving Quality of Care"

2:05 Poster Judging – MaRS Centre Café & CR2 – Main Floor

Gallie-Bateman and McMurrich Research Presentations

Session Chair: Gail E. Darling, Thoracic Surgeon

3:05 James P. Byrne (SSTP): "When is dead "dead"?"

Identifying the unsalvageable patient for the purpose of Performance improvement" (Supervisor: Avery B. Nathens)

3:20 Simon Kelly: "Fgfr3 regulates fracture repair by controlling the balance of intramembranous and endochondral bone formation" (Supervisor: Benjamin A. Alman)

3:35 Saswata Deb (SSTP): "Impact of ethnicity on long-term outcomes after coronary artery bypass grafting surgery" (Supervisor: Stephen E. Fremes)

3:50 Michael Chang: "Optogenetic activation of interneurons triggers ICTAL events in *In vitro* and *in vivo* seizure models" (Supervisor: Taufik A. Valiante)

4:05 Christopher J.D. Wallis (SSTP): "Incidence density rates of treatment-related complications other than incontinence or erectile dysfunction after contemporary treatment for prostate cancer" (Supervisor: Robert K. Nam)

4:20 Closing remarks: James T. Rutka, Michael G. Fehlings

Friday May 8, 2015 – Windsor Arms Hotel, 18 St. Thomas Street, Toronto

Reception – 7 pm ♦ Dinner & Awards Ceremony – 8 pm ♦ Admission \$125 per person

Gallie Day 2015 is an accredited group learning activity as defined by the Maintenance of Certification Program of The Royal College of Physicians & Surgeons of Canada (7.0 credits)