



SHARPMINDS SKILLEDHANDS

Department of Surgery

39th Gallie Day

Friday May 10, 2013

Gallie-Bateman & McMurrich

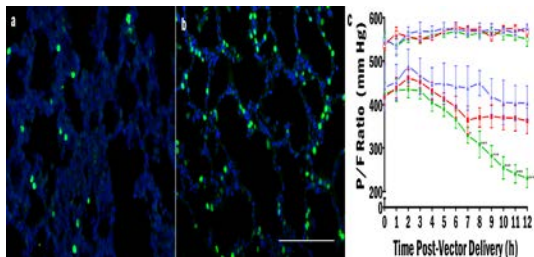
Research Presentations

**MaRS Centre South Tower
Lower Concourse, 101 College Street**

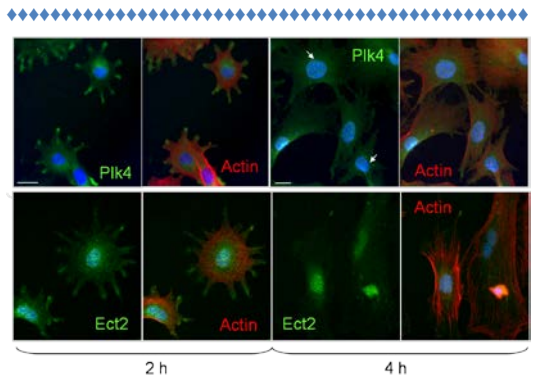
Gordon Murray Lecturer

John E. Niederhuber, M.D.

Executive Vice President, Inova Health System
CEO, Inova Translational Medicine Institute
CEO, Inova Comprehensive Cancer & Research Institute
Co-Director, Johns Hopkins Clinical Research Network, Baltimore, MD



J Yeung, S Keshavjee: Ex vivo gene therapy of injured donor lungs for transplantation results in less vector-associated inflammation. Increased cellularity/inflammation is present within in vivo AdGFP transduced lungs (a) compared to ex vivo AdGFP transduced lungs (b); GFP (green), DAPI (blue). Superior lung function is found in lungs transduced ex vivo compared to in vivo (c); Open points signify ex vivo gene transduction, solid points signify in vivo gene transduction. Control (blue), AdHIL-10 (red), AdGFP (green).



F Zih, C Rosario, O Brashavitskaya, K Kazazian, C Swallow: The novel oncogene Plk4 transiently localizes to cell protrusions in motile fibroblasts. Plk4 (green, upper panels) is seen in protrusions at 2h but back in centrioles (white arrows) by 4h after seeding. Ect2 (green, lower panels), an exchange factor that activates RhoA, similarly localizes to cell protrusions, consistent with signaling downstream of Plk4 being mediated through the Ect2/RhoA pathway to effect actin polymerization and promote cell invasion.

Friday May 10, 2013 MaRS Centre, Lower Concourse
7:30 a.m. Continental Breakfast and Registration
7:45 Poster 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. Benjamin A. Alman, Vice Chair Research

Gallie-Bateman and McMurrich Research Presentations
Session Chair: Cindi Morshead

8:15 Stephen C. Mack: “Effective epigenetic therapy for CIMP+ve Posterior Fossa Ependymomas” (Supervisor: Michael D. Taylor)
8:30 Marvin Hsiao (SSTP): “The numbers, rates, mechanisms and potential access to trauma care for road traffic injury deaths in India - A nationally representative mortality survey of 1.1 million homes” (Supervisors: Avery B. Nathens, Prabhat Jha)
8:45 Gurpreet S. Baht: “Rejuvenating bone through modulation of β -catenin” (Supervisor: Benjamin A. Alman)
9:00 Siba Haykal (SSTP): “Advances in tracheal tissue-engineering: Evaluation of the structural integrity, immunogenicity and recellularization of long-segment circumferential decellularized tracheal allografts for airway transplantation” (Supervisors: Thomas K. Waddell, Stefan O. Hofer)
9:15 Mehroz Ehsan: “Adiponectin limits microparticle-induced endothelial dysfunction: A novel vasculoprotective mechanism” (Supervisor: Subodh Verma)

9:30 Poster Judging – MaRS Centre Café & CR2 – Main Concourse

10:30 SYMPOSIUM: “Making It Personal: Individualized Care in Surgery”

Chair: Benjamin A. Alman, A.J. Latner Professor, Vice Chair Research
♦ **Donald Redelmeier, Director, Evaluative Clinical Sciences, Sunnybrook Health Sciences Centre**

“Personalized Decision Making”

♦ **Michael Szego, Clinical Ethicist, Centre for Clinical Ethics, University of Toronto**
“Ethical Issues Associated with Whole Genome Sequencing in the Paediatric Context”

♦ **Steven Gallinger, Professor, Division of General Surgery, Department of Surgery, University of Toronto & TGH, University Health Network**
“A Personalized Dent in the Armor of Pancreatic Cancer”

♦ **Philippe Bedard, Assistant Professor, Department of Medicine, University of Toronto; Division of Medical Oncology and Hematology, Princess Margaret Cancer Centre – University Health Network**

“Molecular Profiling of Advanced Solid Tumours”

12:00 pm Lunch and Poster Viewing

1:05 GORDON MURRAY LECTURE: “The Importance of the Tumor Microenvironment in Cancer Progression”

John E. Niederhuber, MD, Executive Vice President, Inova Health System; CEO, Inova Translational Medicine Institute; CEO, Inova Comprehensive Cancer & Research Institute; Co-Director, Johns Hopkins Clinical Research Network, Baltimore, MD

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

Gallie-Bateman and McMurrich Research Presentations

Session Chair: Michael Tymianski

3:05 Bheeshma Ravi (SSTP): “Total joint arthroplasty appears cardioprotective in patients with moderate-severe osteoarthritis: A propensity-score matched landmark analysis” (Supervisor: Gillian Hawker)

3:20 Tyler P. Kirwan: “Rapamycin treatment attenuates bladder hypertrophy during long-term outlet obstruction in vivo: Tissue, matrix, and mechanistic insights” (Supervisor: Darius J. Băgli)

3:35 Nir Lipsman (SSTP): “Magnetic resonance guided focused ultrasound (MRGFUS) for thalamotomy in treatment-refractory essential tremor” (Supervisor: Andres M. Lozano)

3:50 Jason S. Rockel: “Hedgehog regulation is required for interzone cell differentiation and β -catenin-mediated synovial joint morphogenesis” (Supervisors: Benjamin A. Alman, Gordon Keller)

4:05 Jennica Platt (SSTP): “Geographic variation in rates of immediate and delayed breast reconstruction in Ontario and the influence of plastic surgeon availability” (Supervisors: Nancy Baxter, Toni Zhong)

4:20 Closing remarks: James T. Rutka, Benjamin A. Alman

Friday May 10, 2013 –Windsor Arms Hotel, 18 St. Thomas Street, Toronto
Reception – 7 pm ♦ Dinner & Awards Ceremony – 8 pm ♦ Admission \$125 per person

Gallie Day 2013 is an accredited group learning activity as defined by the Maintenance of Certification Program of The Royal College of Physicians & Surgeons of Canada (5.5 credits)