

36th Gallie Day

Friday May 7, 2010

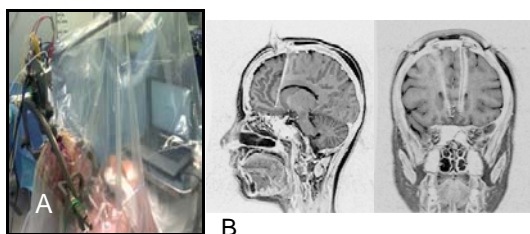
Gallie-Bateman and
McMurrich Research
Presentations

MaRS Centre South Tower Lower
Concourse, 101 College Street

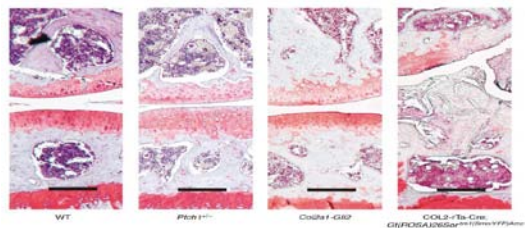
Gordon Murray Lecturer

Dr. Joseph P. Vacanti

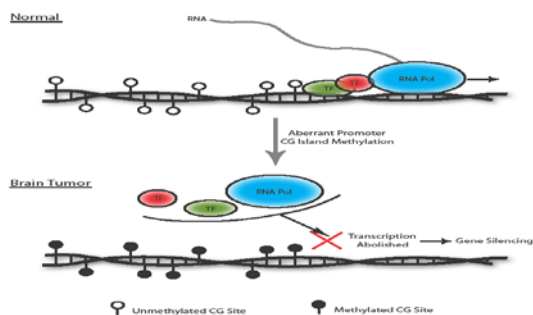
Harvard Medical School
Massachusetts General Hospital
Department of Pediatric Surgery, Boston



Adrian W. Laxton: (A) Intraoperative microelectrode recording (MER) of neurons in the subgenual cingulate cortex of a patient viewing a sequence of 50 IAPS images (with intervening fixation screens) on a computer monitor. (B) Postoperative MRI of one of the participants. The tips of the DBS electrodes are in the MER location.



Alvin C. Lin: Activation of Hh signaling predisposes to osteoarthritis in mice. Representative safranin O histological sections from knees of wild-type, *Ptch1*^{+/-}, *Col2a1-Gli2*-transgenic and *COL2-rtTA Cre;Gt(ROSA)26Sor* mice showing progressively worse histological findings associated with osteoarthritis (left to right).



Paul Kongkham: Epigenetic dysregulation secondary to DNA Cytosine Methylation contributes to brain tumour pathogenesis through aberrant tumour suppressor gene silencing.



Sharp minds: skilled hands

CELEBRATING EXCELLENCE IN SURGERY
THURSDAY, MAY 6, 2010

Reception 6 pm - Dinner 7:00 pm

Frontenac Ballroom * Westin Harbour Castle

****PLEASE NOTE: Gallie Day is an accredited group learning activity as defined by the Maintenance of Certification Program of The Royal College of Physicians and Surgeons of Canada - 5.5 credits****

Friday May 7, 2010 MaRS Centre, Lower Concourse

7:30 a.m. Continental Breakfast and Registration

7:30 Poster Setup - Collaboration Centre Main Concourse

Session Committee: Val Cabral, Andrea McCart and David Urbach

8:00 Opening Remarks - Auditorium

Dr. Richard Reznick, R.S. McLaughlin Professor and Chair

Dr. Ben Alman, Vice Chair Research

Decades of Surgical Research at the University of Toronto

Gallie-Bateman and McMurrich Research Presentations

Session Chair: Peter Dirks

8:15 Steven M. Strasberg, Washington Univ Sch of Med, St. Louis, MO

"The origin of the Surgeon Scientist Program at the University of Toronto - History and opportunity"

8:25 Shelia Singh, McMaster University, Hamilton, ON

"Brain tumour initiating cells: Why the cancer stem cell hypothesis matters to patients with brain tumors"

8:35 Scellig S.D. Stone (Andres M. Lozano, Supervisor)

"Augmenting adult hippocampal neurogenesis using targeted brain stimulation: Implications for memory networks"

8:50 Praphulla C. Shukla (Subodh Verma, Supervisor)

"BRCA1 is an essential regulator of heart function and survival following myocardial infarction"

9:05 Peter J. Evans, Orthopaedic & Rheumatologic Inst, Cleveland, OH

"Fruits or Roots"

9:15 Larissa Temple, Memorial Sloan-Kettering Cancer Ctr, NY, NY

"Patient centered outcomes in rectal cancer"

9:25 Douglas J. Cook (Michael Tymianski, Supervisor)

"Neuroprotection in the gyrencephalic brain: Effectiveness of the PSD-95 inhibitor NA-1 in treating experimental stroke in the cynomolgus macaque"

9:40 Poster Judging - MaRS Centre Café and CR2 - Main Concourse

Session Chair: Tirone David

10:30 Dan Theodorescu, Urologic Oncology, University of Virginia, Charlottesville, Virginia

"Translating metastasis biology into personalized therapy in cancer"

10:40 Charles H. Tator, Neurosurgery, Toronto Western Hosp - UHN

"Bernie said do it, so we did it, and developed something special"

10:50 Khaled Algarni (Terrence Yau, Supervisor)

"Trends in risk profiles and outcomes for isolated coronary artery bypass grafting procedures: What has changed over the last two decades"

11:05 Demitre Serletis (Taufik Vailiante & Peter Carlen, Supervisors)

"Complexity and multifractality in hippocampal epileptiform dynamics"

11:20 Paul W.M. Fedak, Dept of Cardiac Sciences, University of Calgary, Libin Cardiovascular Institute of Alberta, Calgary, Alberta

"Cardiac surgery innovations with biologic matrix"

11:30 Douglas Kondziolka, Univ of Pittsburgh Med Ctr, Pittsburgh, PA

"The Toronto Foundation for an Academic Career in Neurosurgery"

11:40 Jun Yin (Wolfgang Kuebler, Supervisor)

"Lung endothelial dysfunction in congestive heart failure. Role of impaired Ca²⁺ signalling and cytoskeletal reorganization"

11:55 Lunch and Poster Viewing

1:00 p.m. GORDON MURRAY LECTURE: "Tissue Engineering and Regenerative Medicine: From Science to the Surgical Armamentarium"
Dr. Joseph P. Vacanti, Harvard Medical School, Boston, MA

2:10 Poster Judging - MaRS Centre Café and CR2 - Main Concourse

Session Chair: Wayne Johnston

3:00 Liming Wang (Wolfgang Kuebler, Supervisor)

"A critical role for connexin 40 in hypoxia induced pulmonary vasoconstriction"

3:15 Aaron Nauth (Emil Schemitsch & Ru Li, Supervisors)

"Endothelial progenitor cells (EPCs) for fracture healing and angiogenesis: A comparison with mesenchymal stem cells (MSCs)"

3:30 Krishna K. Singh (Subodh Verma, Supervisor)

"BRCA1 improves endothelial function and limits atherosclerosis"

3:45 John S. Ikonomidis, Division of Cardiothoracic Surgery,

Medical University of S Carolina, Charleston, SC

"Basic science research in thoracic aortic aneurysms"

3:55 Joan Lipa, David Geffen School of Medicine, UCLA, Division of

Plastic and Reconstructive Surgery, Los Angeles, CA

"Expansion and contracture"

4:05 Rajiv Midha, Dept of Clinical Neurosciences, Faculty of Medicine, University of Calgary, Calgary, Alberta

"Experimental nerve repair: An odyssey from nerve grafts, to bioengineered tubes to cells"

4:15 Richard D. Weisel, Toronto General Research Institute

"Maturation of the SSP, inclusion of all Divisions"

4:25 - 6:30 pm Cocktail reception and Department of Surgery Awards Ceremony