

SHARPMINDS SKILLED HANDS

38th Gallie Day Friday May 4, 2012

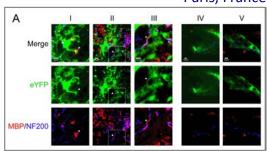
Gallie-Bateman & McMurrich
Research Presentations

MaRS Centre South Tower Lower Concourse, 101 College Street

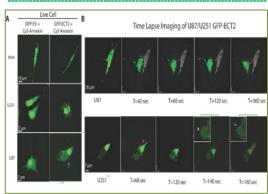
Gordon Murray Lecturer

Pr Philippe Menasché

Unité de Chirurgie Cardiaque Hôpital Européen Georges Pompidou Paris, France



Hawryluk et al: (A) I-III demonstrate injured spinal cord tissue transplanted with wild-type neural precursor cells (NPCs) while IV-V demonstrate tissue transplanted with shiverer NPCs unable to make myelin basic protein (MBP). III is a subset of II shown at higher power, as denoted by the white box. For I-III white arrows demonstrate sites suggestive of remyelination by transplanted cells. IV and V demonstrate that shiverer NPCs also closely approximate axons but that these axons are devoid of MBP staining, though MBP staining is seen elsewhere in the images. This suggests that shiverer NPCs might block remyelination by endogenous cells.



Weeks et al: Ectopic expression of GFP-ECT2 results in MAT. A. Live-cell imaging of NHA and astrocytoma cells transfected with GFP-ECT2 or GFP-EV and treated with annexin-V. Ectopic expression of GFP-ECT2 was sufficient to induce cytoplasmic localization in NHAs, however the morphology of NHA GFP-ECT2 cells remained unchanged, similar to GFP-EV controls. Expression of GFP-ECT2 in U87 and U251 astrocytoma cell lines resulted in cell rounding, cortical instability and bleb formation compared to GFP-EV. White arrow demarks annexin-V debris (dark blue), however cells remained negative for annexin-V. B. Time-lapse-imaging of U87 (upper) and U251 (lower) cells transfected with GFP-ECT2 resulted in an amoeboid migration pattern. Gray overlay image represents original cell location at T=0 and the red line represents total distance travelled over time-lapse sequence. In U251 cells expressing GFP-ECT2, ECT2 expression was noted at the trailing edge (T=60, red arrow), and within the sites of bleb retraction (inset of T=160, white arrow) but not in the expanding bleb (inset of T=140, white arrowhead).

Friday May 4, 2012 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: Thomas Lindsay

8:15 Julia Izrailit: "TRB3 regulates MAPK- and SMAD-dependant Notch activation in breast cancer" (Supervisor: Michael Reedijk) 8:30 Carlo Santaguida (SSP): "The role of TRPM7 channels in traumatic brain injury" (Supervisor: Michael Tymianski)

8:45 Uswa Shahzad: "Transmyocardial revascularization induces mesenchymal stem cell engraftment in ischemic hearts"

(Supervisor: Terrence Yau)

9:00 Nathan Perlis (SSP): "Radical cystectomy with perioperative chemotherapy vs. selective bladder preservation with radiation therapy for muscle-invasive bladder cancer: A decision analysis" (Supervisor: Antonio Finelli)

9:15 David Shih: "Genomic copy-number profiling identifies actionable targets in medulloblastoma subgroups" (Supervisor: Michael D. Taylor)

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

10:30 SYMPOSIUM: "Building Better Bodies: Regeneration and Tissue Engineering and Surgery"

Chair: Benjamin A. Alman, A.J. Latner Professor, Vice Chair Research
 Abdallah Daar, Chief Science & Ethics Officer, Grand Challenges
 Canada; Professor of Public Health Sciences and of Surgery, U of T

"Grand challenges and regenerative medicine"

• Rita Kandel, Chief, Dept of Pathology & Laboratory Medicine, Mount Sinai Hospital; Professor, Laboratory Medicine and Pathobiology, U of T

"Biological joint repair: From therapeutics to joint replacement"

•Michael Sefton, University Professor, IBBME, Michael E. Charles Professor, Dept of Chemical Engineering & Applied Chemistry, U of T "Vascularization of tissue constructs"

• Thomas Waddell, Pearson-Ginsberg Chair, Division of Thoracic Surgery, Thomson Family Chair in Translational Research, Dept of Surgery, U of T

"Regenerative medicine approaches for lung and airway diseases"

12:00 pm Lunch and Poster Viewing

1:05 GORDON MURRAY LECTURE: "Stem cells for the treatment of heart failure: What is still missing for a prime time use?"
Pr Philippe Menasché, Unité de Chirurgie Cardiaque
Hôpital Européen Georges Pompidou, Paris, France

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

Gallie-Bateman and McMurrich Research Presentations Session Chair: Donna McRitchie

3:05 Boris Zevin (SSP): "An evidence-based framework for the design, validation and implementation of a simulation based surgical training curriculum" (Supervisor: Teodor Grantcharov)

3:20 Atiqa Malik: "Recurrence of inguinal hernia in general and hernia specialty hospitals in Ontario, Canada" (Supervisor: David Urbach)

3:35 Francis Zih (SSP): "Polo-like kinase 4 enhances cancer cell motility and invasion" (Supervisor: Carol Swallow)

3:50 Claudia Faria: "Targeting the cMET pathway to treat medulloblastoma - towards a personalized therapy in pediatric brain cancer" (Supervisor: James Rutka)

4:05 Jonathan Yeung (SSP): "Ex vivo lung perfusion for evaluation and repair of donor lungs for transplantation" (Supervisor: Shaf Keshavjee)

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

Friday May 4, 2012 - Fairmont Royal York Hotel, Imperial Room
Reception – 7 pm Dinner & Awards Ceremony – 8 pm

100 Front Street West - Admission \$125 per person
surgery.admin@utoronto.ca or 416-978-2623

*** GD is an accredited group learning activity as defined

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