R.S. Mclaughlin Professor And Chair
Dr. J.T. Rutka (April 1, 2011)
Dr. D.A. Latter (Interim Chair July 1, 2010 to March 31, 2011)

Associate Chair And Vice-Chairs
Dr. B.R. Taylor    Associate Chair/James Wallace McCutcheon Chair in Surgery
Dr. D.A. Latter    Vice-Chair, Education
Dr. R.R. Richards  Vice-Chair, Clinical
Dr. B. Alman       Vice-Chair, Research/A.J. Latner Professor and Chair of Orthopaedics
Dr. A. Kapus       Associate Chair, Research

Surgeons In Chief
Dr. J.G. Wright    The Hospital for Sick Children/Robert B. Salter Chair in Surgical Research
Dr. J.S. Wunder    Mount Sinai Hospital/Rubinoff-Gross Chair in Orthopaedics
Dr. L.C. Smith     St. Joseph’s Health Centre
Dr. O.D. Rotstein  St. Michael’s Hospital
Dr. R.R. Richards  Sunnybrook Health Sciences Centre
Dr. L. Tate        The Toronto East General Hospital
Dr. B.R. Taylor    University Health Network/James Wallace McCutcheon Chair in Surgery
Dr. J.L. Semple    Women’s College Hospital

University Division Chairs
Dr. C. Morshead    Anatomy
Dr. C. Caldarone   Cardiac Surgery
Dr. A. Smith       General Surgery/Bernard and Ryna Langer Chair
Dr. A. Lozano      Leslie Dan Professor and Chair of Neurosurgery
Dr. B. Alman       A.J. Latner Professor and Chair of Orthopaedics
Dr. D. Anastakis   Plastic Surgery
Dr. T. Waddell     F.G. Pearson/R.J. Ginsberg Chair in Thoracic Surgery
Dr. S. Herschorn   Martin Barkin Chair in Urological Research
Dr. T. Lindsay     Vascular Surgery
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Chair’s Report

James T. Rutka

On April 1, 2011, I was extremely honoured to be installed as the RS McLaughlin Professor and Chair of the Department of Surgery at the University of Toronto. We are truly indebted to David Latter who served admirably as Interim Chair over the past year. Not only did David conduct the full range of activities of the Chair, but he also added significantly to the well-being of the Department by ensuring that we move towards the web-based CV program, by establishing a system by which faculty in community affiliated hospitals could attain appointments in the Department of Surgery, by obtaining the equipment required for teleconferencing from the Banting Institute across all fully affiliated and community affiliated sites, and by reviewing all practice plans in the Department to ensure that they conform to University standards. Thankfully, David has agreed to stay on as the Vice Chair of Education in the Department of Surgery.

One of my first tasks was to re-structure the Executive Committee with the Department. I am pleased to report to you that Ori Rotstein, Surgeon-in-Chief at St Michael’s Hospital, has agreed to serve as Associate Chair; Ben Alman, Chair of Orthopaedics, has agreed to remain as Vice-Chair of Research; Robin Richards, Surgeon-in-Chief at Sunnybrook will remain as Vice-Chair of Education; Robin McLeod has been recruited to lead a Best Practices portfolio as Vice Chair of Quality; and Avery Nathens has been placed in the position of Chair, Departmental Appointments Committee. With David Latter as Vice Chair of Education, this is a formidable team of executive members, and I truly look forward to forging new pathways with them in the leadership of the Department of Surgery. I also want to take this opportunity to thank Bryce Taylor who served over the past decade as Associate Chair and Chair of the Continuing Appointment Review Committee.

There have been some other important administrative changes in the Department. After serving indefatigably as Chair of the Promotions Committee for 10 years, Robin Richards has stepped down from this position. In his place, I am pleased to inform you that Sender Herschorn, Chair of Urology, has agreed to take over this important position. In the Surgical Skills Centre (SSC) at Mt Sinai Hospital, Helen MacRae has just stepped down as Director after serving in this capacity for the past 7 years. Following an extensive search process, I am delighted to announce that Oleg Safir from the Division of Orthopaedics will assume the position as Director of the SSC. One of our big challenges, and opportunities with the SSC will be to determine its relationship with several innovative skills and simulation centres that have been created at neighbouring affiliated hospitals such as the Li Ka Shing Institute at St Michael’s Hospital, and the Hospital for Sick Children.

The Reports on Education in the Department of Surgery from David Latter and Ron Levine are found in the next sections for your information, but I do wish to draw attention to our current emphasis on Undergraduate Medical Education (UME). After having served capably in the position of Director of UME for 7 years, David Backstein has decided to step down, and pursue his new position as Head of the Division of Orthopaedics at Mt Sinai Hospital. In his place, I am delighted to report to you that following a department-wide search, George Christakis has been appointed as the new Director of UME. The Department is committing additional resources to UME to continue to improve the curriculum for medical students at the University of Toronto. Mr. Shibu Thomas has been hired as the new UME co-ordinator in the Department who has replaced Carmela Calorendi who served in this role for almost 22 years.

At the Post-graduate level, there have been some new appointments of Program Directors. Andrew Pierre has become the new Program Director of Thoracic Surgery having taken over from Gail Darling who served for the past 12 years in this capacity; George Oreopoulos has now become the new Program Director of Vascular Surgery having taken over from Tom Lindsay who served the past 8 years; and Abhaya Kulkarni has become the new Program Director in Neurosurgery having taken over from Chris Wallace who has served over the past 12 years. As we gear up for the Royal College Review of our Residency Programs in 2013, all of the surgical subspecialty programs underwent formal internal reviews this past year. At the time of the writing of this report, all programs were considered to be in good shape heading into 2013. However, a problem which has reared its head is the scarcity of positions for subspecialty surgeons in the Province of Ontario and across Canada. The Department of Surgery will be working hard to correct this problem as we move into our Strategic Planning process for 2012. Finally, mention must be made of the innovative Competency Based Curriculum (CBC) in Orthopaedics which is in its 2nd year of activity. From all accounts, the CBC in Orthopaedics has been extremely successful, and will serve as a new paradigm for surgical education in the future.

The Surgical Spotlight is our vehicle for timely communications with our faculty and alumni around the world. We are truly fortunate that Martin McKneally has devoted himself to making the Spotlight as informative and newsworthy as possible. I know I look forward to seeing each and every issue with its myriad of surgical interest stories. In addition, we have added new electronic communications this year for our faculty and alumni with the production of our monthly newsletter, Excelsior and priority news vehicle, e-Clips. Watch for these in upcoming months and issues.
This year was another banner year for the Department of Surgery as of July 1st, 2010 include Abdollah Behzadi, Thoracics, New faculty hired in the Department of Surgery as of Professor. And Dimitri Anastakis, Oleh Antonyshyn, James Eubanks, Ron Kodama, Andy Smith, and David Urbach were successful at being promoted to Full Professor.

New faculty hired in the Department of Surgery as of July 1st, 2010 include Abdollah Behzadi, Thoracics, Credit Valley Hospital; Sunit Das, Neurosurgery, St Michael's; Osami Honjo, Cardiac Surgery, Sick Kids; Neelash Jain, General Surgery, NYGH; Shivay Jayarama, General Surgery, St Joseph’s; Philippe Garzon, General Surgery, Trillium; Richard Jenkinson, Orthopaedics, Sunnybrook; Rashid Jinnah, Orthopaedics, Trillium; Donald Jones, Thoracic Surgery, Credit Valley; Simon Kelley, Orthopaedics, Sick Kids; Atul Kesarwani, Plastics, TEGH; Glorianne Ropchan, Cardiac Surgery, UHN; Joan Lipta, Plastics, Sunnybrook; Christine Novak, Plastics [research], Toronto Rehab Institute; Simon Skeldon, Urology, Trillium; Michael Ko, Thoracics, St Joseph’s; Hany Sawires, General Surgery, TEGH; Eric Marmor, Neurosurgery, Trillium; Laura Snell, Plastics, Sunnybrook; Hong-Shuo Sun, Anatomy; Ivica Vucemilo, Vascular Surgery, Trillium; Gilbert Yee, Orthopaedics, Scarborough General; Conor Turley, Plastics, Trillium; and Behzad Taori, Orthopaedics, Trillium. In addition, 37 faculty were appointed on faculty from our community affiliate hospitals in the Toronto GTA.

Numerous awards were once again earned by many faculty in the Department of Surgery. While far too many to chronicle in exacting detail, highlights include: The Tovee Post-graduate Prize won by Bill Kraemer; the Tovee Undergraduate Prize won by Frances Wright; the DR Wilson Award for Resident Teaching won by Taiba Al-Rasheed; the Bernard Langer Surgeon-Scientist Award won by Tony Finelli; the George Armstrong-Peters Prize won by Michael Taylor; the Gallie Bateman Award won by Adrienne Weeks; the Shafie Fazel Award won by Mitesh Badiwala; the Charles Tator Mentoring Award won by Ben Alman; the Lister Prize by Tom Waddell; and the Zane Cohen Clinical Fellowship Achievement Award won by Ed Hickey. Additional notable awards include the WT Aikins Faculty Teaching Award to Dee Ballyk; the Roscoe Reid Graham Scholarship in Surgical Science received to Osami Honjo; the Ross Fleming Surgical Educator Award to Tom Lindsay; the Herbie Doctor of the Year Award at Sick Kids to Joao Pippi Salles; and the DR Wilson Award from the Royal College of Physicians and Surgeons to John Murnaghan.

I am very pleased to announce that Marc Jeschke and the multi-disciplinary team in the Ross Tilley Burn Centre at Sunnybrook Health Sciences Centre received American Burn Association (ABA) verification this year. This makes the University of Toronto only the second centre outside of the United States to receive this honour. Mark Bernstein was installed as the inaugural Wilkins Barrick Chairholder in International Surgery. This $5 million chair was established at UHN in memory of Greg Wilkins, late CEO of Barrick Gold Corporation, and will enable Mark to continue his incredible international work in neurosurgery spanning numerous countries where he has instructed neurosurgeons how to perform craniotomies under local anesthesia, and has lectured the junior neurosurgeons and residents in these countries.

With assistance from our Senior Advancement Officer at the University of Toronto, Darina Landa, the Department of Surgery was on target to receive over $2.1 million in generous donations to various funds and fellowships. These included donations from IAMGOLD Corporation in PRS, Astellas Pharmaceuticals in Urology, the Bobechko Foundation in Orthopaedics, the Miller Tavern and the Shane Baghai Group of Companies for the Surgical Oncology Fund. The review of our research portfolio by Ben Alman, Vice-Chair Research, can be found on the accompanying pages. In brief, the Department of Surgery received more than $32 million in research funding this past year – a staggering accomplishment given the difficult fiscal times. The Surgeon Scientist Program [SSP] continues to thrive with 6 new residents joining the program, and 19 continuing on with their research studies. More than 90% of those enrolled in the SSP have received external salary support. In an SSP Trainee Survey conducted by Ben for the years 1984-2011, it was shown that of 202 SSP graduates now in practice, more than two-thirds are working in Academic Institutions, and two-thirds of these are working in Toronto. I should like to thank Tom Waddell, Andrew Howard, and Steven Gallinger for producing a “white paper” on the future of the Surgeon Scientist in the Department of Surgery. Many of the recommendations from this document will be followed to ensure that surgeons interested in pursuing academic careers in surgery and science receive the necessary support required to be successful.

Fall 2011 was busy for us as we launched a strategic planning initiative which will carry over into 2012. Our last Strategic Plan, entitiled “Breaking through the Boundaries”, was conceived and written in 2004 by former RS McLaughlin Chair, Richard Reznick and Urology Professor Michael Jewett. We have identified five pillars of activity to support the Department of Surgery over the next 5 years: 1) Research; 2) Education; 3) Faculty Development; 4) Best Practices/Quality; and 5) Integration. Cutting across these 5 themes will be global impact, innovation, advancement, and social responsibility. I am grateful to my Executive Committee for the outstanding work they have done thus far on the Strategic Plan, and I look forward to reporting to you next year with the new directions in which this plan will be leading us.

Sincerely,

James T Rutka, MD, PhD
RS McLaughlin Professor and Chair
Research

Ben Alman, Vice-Chair, Research
/ A.J. Latner Professor and Chair in Orthopaedic Surgery

Research endeavors by clinical faculty, non-clinician faculty, trainees, and students continues to move forward to high levels of research excellence.

Our high impact journal publications continue to grow by numbers. Our faculty has given research presentations throughout the globe and participated in over a hundred national and international research meetings. The increased competitiveness of research funding from the Canadian Institutes of Health Research (CIHR), the Canadian Cancer Society Research Institute (CCSRI), and other funding agencies continues. Despite this, our department members continue to receive increasing support from these agencies. Benjamin Alman, Nancy Baxter, Gregory Borschel, Sean Cleary, Michael Fehlings, Geoff Fernie, Anna Gagliardi, Steven Gallinger, Reg Gorczyński, Ab Guha, Sevan Hopyan, Keith Jarvi, Marc Jeschke, Shaf Keshavjee, Hans Kreder, Wolfgang Kuebler, Wey Liang Leong, Mingyao Liu, Andres Lozano, R. Loch Macdonald, Melinda A. Musgrave, Averi Nathens, Sandro Risoli, Ori D. Rotstein, James Rutka, Emil Schemitsch, Hong-Shuo Sun, Michael D. Taylor, Michael Tymianski, Subodh Verma, Cari Whyne, Thomas Waddell and Thomas Willett, were among the great number of faculty who received new grants this year. Our total research funding continues to exceed that of even many of the Universities in Canada, this year topping $32,000,000.

The Surgeon-Scientist Program continues to be strong, with over thirty residents participating this year. Over 92% of our Surgeon-Scientist Program trainees successfully received full or partial salary support from external granting agencies. Johnson & Johnson Medical Products funding support for the Surgeon-Scientist Program provided funding for 2010-2011 to four trainees namely: Maryse Bouchard, Ivan Diamond, Kim Tsoi and Jonathan Yeung.

The theme for Gallie Day this year was “Computers and Robots in Surgery”. The day included a symposium entitled “Making Surgeons Obsolete: Computers and Robotics in Surgery.” The symposium Chair was Benjamin Alman (A.J. Latner Professor, Vice-Chair Research). Participants included James T. Rutka (Chair, Department of Surgery), whose talk was “Discovery, Invention and Innovation in Surgery;” Ian McKillop (J.W . Graham Research Chair in Health Information Systems, Public Health Program and Executive Director, University Health Research Office of Research, University of Waterloo), “Fostering Innovation: Step One – Check the Water;” Christian Veillette (Assistant Professor, Orthopaedic Surgery, U of T), and ‘Forget EBM: The Emerging Science of Collective Intelligence.’ They gave insightful talks into how to incorporate innovation into our academic surgical practices, and showed how using computer technology can improve patient outcome. For instance, the use of computer-assisted collective intelligence can be used to identify the best treatments for patients. Inderbir S. Gill [Director, USC Institute of Urology; Professor and Chair, Catherine and Joseph Aresty Department of Urology; Associate Dean (Clinical Innovation), Keck School of Medicine, University of Southern California, Los Angeles, California] gave an entrancing Gordon Murray Lecturer entitled, “Minimally Invasive Surgery: Poster-child or Impostor?”


Amparo Wolf won the McMurrich Award, 1st prize, [for research by a trainee not in the surgeon-scientist program] for “Hexokinase 2 is a key mediator of aerobic glycolysis and promotes tumor growth in human glioblastoma multiforme” [Sameer Agnihotri, Johann Micallef, Joydeep Mukherjee, Nesrin Sabha, Rob Cairns, Cynthia Hawkins [Abhijit Guha, supervisor]]; 2nd prize was a 5-way tie [this is the first time this has happened] and went to Sameer Agnihotri: “A GATA4 regulated tumour suppressor axis is disrupted in glioblastoma” [Supervisor: Abhijit Guha]; Aaron Gajadhar: “In situ proximity ligation-based analysis reveals aberrant dimerization and activation of epidermal growth factor receptors prevalent in glioblastoma multiforme” [Abhijit Guha, supervisor]; Vedant Arun: “A novel NF1-LRPPRC interaction reveals a role in RNA granules” [Joseph C.Wiley, Harpreet Kaur [Abhijit Guha, supervisor]]; Crystal A. Ruff: “Stem cell-based transplantation strategies for sub-cortical remyelination” [Hui Ye, Liang Zhang [Michael G. Fehlings, supervisor]; and Nesrin Sabha: “The impact of IDH1 mutations on progression-free and overall survival in human low and intermediate

Faculty research awards went to Antonio (Tony) Finelli [Bernard Langer Surgeon-Scientist Award, awarded to an outstanding graduate of the Surgeon-Scientist Program in the Department, who shows the greatest promise for a career in academic surgery), Michael D. Taylor [George-Armstrong Peters Prize, awarded to a young investigator who has shown outstanding productivity during his initial period as an independent investigator as evidenced by research publications in peer reviewed journals, grants held, and students trained], Benjamin A. Alman [Charles Tator Surgeon-Scientist Mentoring Award, to recognize individual supervising participants in the SSP who emulate Professor Tator’s qualities, namely excellence in research, commitment to SSP mentoring and dedication to promotion of Surgeon-Scientists] and Thomas Waddell [Lister Prize, awarded to an investigator who has shown outstanding and continuing productivity of international stature as evidenced by research publications, grants held, students trained and other evidence of stature of the work produced]. The first Shafie Fazel Award was presented to Mitesh Badiwala by Shafie’s wife [widow] Nathalie Fazel, Zane Cohen Clinical Fellowship was awarded to Ed Hickey, cardiac surgery clinical fellow at Sick Kids Hospital. William [Bill] Kraemer received the Tovee Postgraduate Prize, and Frances Wright received the Tovee Undergraduate Prize. At the Gallie day dinner, we had an award accepted using Skype [another first] and had a wonderful display of our department member’s artwork again. The scope and breadth of the creative artistic efforts from our departmental members was quite amazing. Thanks to Darrell Ogilvie Harris for organizing the art show.

Faculty accomplishments in the past year were extraordinary. Again there were too many awards and honors to list all of them, and most of the awards are listed in the activities of the individual hospitals and divisions. At the 2011 International Spinal Cord Medicine and Rehabilitation Conference, Charles Tator received the 2011 ASIA Lifetime Achievement Award for his significant contribution and dedication to the field of spinal cord injury care. Michael Jewett was the recipient of two awards at the American Urological Association Annual Scientific Meeting 2011. Dr. Jewett received the AUA Distinguished Contribution Award 2011 for his outstanding contributions to science and the treatment of urological malignancies and the Society of Urologic Oncology Medal provided to an individual for specific achievement and contributions in the field of urologic oncology. Joao L. Pippi Salle was honoured with the Herbie Doctor of the Year Award for 2010 recognizing all of his contributions to underprivileged children needing care at Sick Kids from all over the world. Tom Waddell and Alison McGuigan were awarded the NSERC-CIHR collaborative Health Research Program: Engineering Improved Tracheal Replacement Tissue. Ralph Manktelow was the recipient of the Canadian Society of Plastic Surgeons Lifetime Achievement Award. The list is endless and the recognitions are too many to mention. Our entire surgical research community deserves a share of congratulations.

The Departmental Research Committee continues its strong work on expanding the breadth of research activities in the Department, establishing links to emerging research areas, improving the links with the non-clinician scientists in the Department, developing standardized evaluations for faculty, and optimizing the strengths of Gallie Day and research educational activities. In November 2011, there will be a second non-clinician scientist retreat organized by Andras Kapus and Val Cabral for November 2011. The Committee worked on a white paper to examine the best environment to maintain our high level of research excellence among our clinical faculty in the coming decades. This work will be used as a starting point in the upcoming departmental strategic planning sessions. Research will always play a leading role in our department and we have made astonishing accomplishments in the past year. There is no doubt in the upcoming years our research activities will continue to expand, with new avenues of investigation being developed and improvements in our research infrastructure to increase the breadth and depth of our work, ultimately improving the outcome for our patients.

Special thanks to Val Cabral for her co-ordination of all aspects of the Departmental research activities.
The Department of Surgery at the Postgraduate level is the largest in Canada with 280 residents and 234 clinical fellows. There have been many accomplishments and successes in the 2010-2011 academic year.

There are 11 surgical programs: 6 CaRMS entry and 5 subspecialty programs after general surgery. The backbone of the 11 surgical programs is the Program Director and their administrative assistant. It is a huge thankless job to coordinate and maintain each of these surgical specialties.

There have been some changes this year. Dr. David Latter in Cardiac Surgery, Dr. Chris Wallace in Neurosurgery, Dr. Thomas Lindsay in Vascular Surgery and Dr. Bill Kraemer in Orthopaedic Surgery have finished their term as Program Directors. The new Program Directors are Dr. Gideon Cohen for Cardiac Surgery, Dr. Abhaya Kulkarni for Neurosurgery, Dr. George Oreopoulos for Vascular Surgery and Dr. Peter Ferguson for Orthopaedic Surgery. These new Program Directors will continue to maintain their respective programs at a very high level and will also bring new ideas to their respective specialties.

Dr. Richard Reznick stepped down as chairman after 8 years to become the Dean at Queen’s University. Dr. David Latter was acting interim chairman for a one-year period and did a superb job and there was nearly a seamless transition to the new chairman. Dr. Jim Rutka began his position as chairman in April of 2011. Dr. Rutka is a world renowned neurosurgeon. He has many initiatives planned to take the Department of Surgery to an even higher level.

Our surgical positions for all of our CaRMS entry specialty programs are sought after by medical students from across Canada. This year all CaRMS entry surgical positions were filled in the 1st reiteration. Most of these positions were filled with our top ranked applicants. Many of the surgical specialties also take IMG’s (International Medical Graduates) and visa trainees from around the world.

The first two years of training in surgery is known as Core Surgery. Besides attending specialty-specific academic endeavors, the Core Surgery residents attend the Principles of Surgery (POS) lectures to prepare them for the POS Royal College Exam. These weekly seminars are coordinated by Dr. Robert Mustard. Dr. Mustard also organizes practice exams. The high success rate of our students at the POS Exam is a testament to all of Dr. Mustard’s hard work.

Another important part of the postgraduate curriculum in all specialties is the Surgical Skills Lab at the Mount Sinai Hospital. All PGY1 residents attend a one year surgical skills courses where they learn fundamental surgical skills. Each of the surgical specialties also run their own courses where surgical skills specific to their specialty are taught. Lisa Satterthwaite is the Manager of this unique skills lab. Dr. Helen MacRae has been the Director of the Surgical Skills Lab for the last ten years. Dr. MacRae has made our Surgical Skills Lab at the University of Toronto one of the best and most productive Surgical Skills Labs in North America. Dr. MacRae has stepped down after ten years as Director.

There are a number of academic days to enhance the educational experience of the surgical resident. In July the Core Surgery residents attend “The Surgeon in Society” where medical legal issues are discussed. This is run by Dr. John Bohnen and Dr. Ron Levine. Dr. John Murnaghan runs “Residents as Teachers” for the PGY1 and PGY3 residents. This is a workshop to teach our residents to be better teachers. There is an orientation day organized by Dr. Ron Levine for all of our new first year residents. All of our first year residents attend the ATLS course coordinated by Dr. Jameel Ali at St. Michael’s Hospital.

Case logging on POWER is now mandatory for all surgical residents. All but one of the surgical specialties is using POWER case logging. The Program Directors can monitor the operating experience of the learner at each hospital and can compare the experience from one hospital to another.

PGCoreEd is a series of interactive modules based on the CanMEDS Roles. Each module takes 4 to 5 hours to complete and there is an exam at the end of each module. The results of the exams are provided to the resident, Program Director and Director of Postgraduate Education. Successful completion of 5 modules was required for all residents finishing their PGY2 year.

The University of Toronto, the Royal College of Physicians and Surgeons and the Ministry of Health have all mandated an increased community experience for our residents. This mandate is called Distributed Medical Education. To meet this mandate the Department of Surgery has increased the number of residents going to community hospitals. At the present time residents are going regularly to St. Joseph’s Health Centre, Toronto East General Hospital, North York General Hospital, Humber River Regional Hospital, William Osler Heath Centre, Credit Valley Hospital, Trillium Health Centre and South Lake. The feedback from residents rotating through these community hospitals has been excellent.

The Competency Based Curriculum in Orthopaedic Surgery continued for the academic year 2010-2011. Three new residents were accepted into the program and thus far it seems to be extremely successful due to the hard work of the Division of Orthopaedic Surgery. Educators from around the world are awaiting the results of this program.
There was a retreat for new faculty in May that was coordinated by Dr. Ron Levine. It was highly successful and the plan is to continue this retreat. The Department of Surgery will be alternating it on a yearly basis with a faculty development day on how to be a better teacher.

The fellowship programs in the Department of Surgery are extremely important. Not only do the fellows learn important skills that they take back to their countries of origin, but they all bring their experiences from around the world to our residents and medical students. At the present time we have 234 fellows in the Department of Surgery. The fellowship committee under the leadership of Dr. David Latter has moved to formalize all the fellowships in the Department of Surgery with definitive goals, objectives and uniformity of salaries for each fellowship. In an effort to improve the social environment for our clinical fellows and their families the Department hosts an annual BBQ in August specifically inviting spouses and children so that that families can get to know each other.

The Women in Surgery group under the leadership of Dr. Melinda Musgrave met three times this year. This group discusses issues of finding the balance of family life with a surgical career. It is well attended by female medical students, residents and faculty.

Dr. Bill Kraemer was awarded the 2011 Bruce Tovee Award for Postgraduate Teaching. The 2011 D.R. Wilson Award for Resident Teaching of medical students was won by Dr. Taiba Al-Rasheed.

The running of the Department of Surgery with 280 residents, 234 fellows and 265 faculty members is a huge endeavor. This is masterfully done by Tess Weber and her assistant Robert Gardin.
The 2010-2011 year saw continued academic success of students enrolled in the Department of Surgery’s undergraduate program. Our students excelled in comparison to international benchmarks on standardized examinations such as the National Board of Medical Examiners shelf examination. In addition, this year saw the incorporation and consolidation of the new eight-week surgical curriculum.

Despite these successes, many challenges clearly face our program. Students have expressed a desire for more direct exposure to surgical-faculty supervisors in order to gain higher quality clinical experiences, over a more prolonged period of time. They also wish for more direct responsibility in patient care and broader exposure to surgical issues relevant to primary care physicians. Despite the “Crash Course” which has provided fundamental technical skills, students continue to experience inadequate opportunities in the operating room.

While much of the past year was spent documenting and verifying our educational strengths in advance of the 2012 Faculty of Medicine accreditation process, it is clear that undergraduate surgical education at the University of Toronto needs to continue to evolve. To this end, many significant changes are planned for the way we teach and evaluate students in the coming years. Under the guidance of the new Director, Dr. George Christakis, I am sure we will modify and improve the surgical clerkship and remain among the strongest programs in North America.

As this is my final annual report I would like to thank the entire faculty and associated staff for making the past eight years highly fulfilling and always interesting. In particular, I would like to thank Carmela Calorendi for her ever present, highly effective administration of the program and for the guidance and support she provided me with through the years.
OVERALL CEPD GOALS

- Promote best practices in continuing education and professional development [including Faculty Development, CHE Professional Development]
- Foster scholarship and research in continuing education
- Broaden the scope and inclusiveness of continuing education [including international, interprofessional]
- Reinforce infrastructure and funding base [including COI, industry relations]

2010-11 ACTIVITIES

- 25 CE events run through the CEPD office, either fully or partially with accreditation only
- 16 live meetings, 4 faculty development, 3 web-based and 2 research-based
- Superb success with enrollment in the hundreds for several courses, such as the Update in General Surgery, Urology Update 2010, etc.
- Many faculty members involved as Chair and faculty in CE events nationally and internationally outside of the CEPD jurisdiction

OBJECTIVES FOR 2011-12

- Establish a CE Working group for the Department consisting of representatives of each of the Surgical Divisions
- Encourage all Divisions to run or accredit courses through CEPD office.
- Catalogue the National and International CE that is done outside of the CEPD office
FACULTY APPOINTMENTS
In January 2011, Michael Wiley completed his term as Chair of the Division of Anatomy. We are ever thankful for his outstanding leadership, commitment and energy over the past 10 years.

Dr. Hong-Shuo Sun joined the Division in July 2010 and holds a tenure-stream Assistant Professorship. Since his arrival Dr. Sun has successfully acquired funding from the Heart and Stroke Foundation, NSERC and CFI. This is quite an achievement in light of the bleak research funding climate that we currently face.

FACULTY GRANTS

The Canadian CAM Research Fund (Holistic Health Research Foundation of Canada) awarded $4,858 for the study “Biomechanical and cellular changes within the rat gastrocnemius muscle and calcaneal tendon post tenotomy: Do traumael injections make a difference?” (with K. Sauks)

“The effect of a three-dimensional scapular-humeral mobilization technique and protocol on the reduction of hemiplegic shoulder pain” with D. Richardson was awarded from the Ontario Stroke System. A $35,160 two year grant.

Paulo Koeberle: A CFI Infrastructure Operating Grant for $35,000 for support of the study “Mechanisms of central nervous system degeneration after injury”.

The Canadian Institutes of Health Research (CIHR) awarded 3 years of funding for the project entitled “The role of matrix metalloproteinases in adult CNS neuroprotection” with M Fehlings. ($257,217).

Cindi Morshead: A 3 year grant “Building a 3-D retina” with Shoichet M, Morshead C, MacDonald J, Boyd S from the National Sciences and Engineering Research Council/Canadian Institutes of Health Research, Collaborative Health Research Projects (NSERC/CIHR, CHRP) Program. ($595,000).

Research Projects (NSERC/CIHR, CHRP) Program.

“Engineering stem cell delivery to the injured spinal cord” [with M. Shoichet and D. van der Kooy] from the Department of Defense (U.S.A) ($100,000 for 1 year).

An Ontario based CFI “Ontario Initiative in personalized stem cell medicine” for >$10,000,000 to develop stem cell based therapeutics for application to regenerative medicine.

The Canadian Institute of Health Research for the proposal “In vivo monitoring of neural recovery following stem-cell therapies in an animal model of stroke” [with G. Stanicz and N Lobaugh] for $458,000 over 3 years.

Hong Sun: A 3 year Grant in Aid from the Heart and Stroke Foundation for his studies on the “Role of KATP channels in stroke” ($128,200).

A Discovery Grant from Natural Sciences and Engineering Research Council of Canada [NSERC] “TRP channels in neuronal development.” Awarded for 5 years.

FACULTY HONOURS AND AWARDS
The Division of Anatomy teaches over 2500 students each year across various Faculties and Departments, undergraduate, graduate and continuing education programs. We continue to celebrate the tremendous teaching achievements of our faculty.

Michael Wiley was awarded the Ontario Council of University Faculty Associations Teaching Award; the Harry Whittaker Memorial Teaching Award, Faculty of Medicine as well as the coveted President’s Teaching Award at the University of Toronto.

Barbara Ballyk was awarded the Aikens Award, the Faculty of Medicine’s most prestigious award for sustained commitment to and excellence in undergraduate teaching.

GRADUATE STUDENT ACHIEVEMENT, HONOURS AND AWARDS
Dave Piccin (Morshead, supervisor) was the recipient of an Alan Wu award at IMS Research Day.

Wenjun Xu (PhD candidate in Morshead lab) and Kate Sauks (PhD candidate in Agur lab) were awarded the James H. Research Fellowship in Anatomy.

Wenjun Xu was also awarded the Carlton and Marguerite Smith Medical Research Fellowship.

Shoeb Ahsan (Morshead, Supervisor) successfully defended his MSc. Thesis

“Investigation of adult retinal precursor cell behaviour in response to soluble factors and varying substrate stiffness in two and three dimensional scaffolds.”
The Division of Cardiac Surgery enjoys a reputation for excellence in terms of clinical care and research, with one of the largest combined clinical volumes in North America. The Division has made strong advances in the development of new surgical strategies including complex hybrid aortic procedures, trans-catheter aortic valve replacement, and hybrid management for neonatal single ventricle palliation. Our basic science, translational, and clinical research publications remain strong with a large proportion of the staff maintaining peer-reviewed funding for their research agendas.

The cardiac surgery residency training program continues to attract top candidates from across Canada and passed its recent internal review under the guidance of our Program Director, Dr. Gideon Cohen. We also developed the post of Fellowship Director with Dr. Stephanie Brister to improve the quality of our clinical fellowships across our four constituent hospitals.

The year is also notable for evolution in leadership with the appointment of Dr. David Latter as the Chief of Cardiac Surgery at St. Michael’s Hospital. A search was also recently initiated for the position of Chief of Cardiac Surgery at the Toronto General Hospital/University Health Network to find a successor for Dr. Tirone David who continues to have a well-deserved reputation as the premier cardiac surgeon in the world.

The 15th annual Terence Donnelly Cardiac Residents Research Day was held on June 11, 2011 and was attended by cardiac surgical residents from every program in Canada. This event is an annual highlight for aspiring surgeon-scientists among the Canadian residency programs and is generously supported by Mr. Terence Donnelly and organized by Dr. Lee Errett. The event was honored with two Visiting Professors: Dr. Ivan Rebyeka, Professor, University of Alberta and Dr. Marc Ruel, Professor, University of Ottawa Heart Institute [details below].

RECRUITMENT

Osami Honjo was recruited as a staff cardiac surgeon at The Hospital for Sick Children in July 2010 after completing his fellowship in cardiac surgery at The Hospital for Sick Children and St. Michael’s Hospital. Dr. Honjo’s clinical practice focuses on open heart surgery in neonates and infants, surgical palliation for single ventricle patients, mechanical cardiopulmonary support in pediatric population, and surgery for patients with adult congenital heart diseases.

Dr. Honjo’s research focuses on seeking clinical predictors/factors that influences outcome, which improve the quality of surgeons’ decision making.

Fuad Moussa was recruited as a staff cardiac surgeon at Sunnybrook Health Sciences Centre in July 2010. Dr. Moussa attended medical school at McGill, completed general surgery training and cardiothoracic residency in Miami, Florida. He then became a fellow and subsequently a clinical associate at Sunnybrook Health Sciences Centre. Dr. Moussa’s clinical practice focuses on off-pump coronary artery surgery with a special interest in minimally invasive coronary surgery. Dr. Moussa’s academic focus is in teaching, particularly on the use of simulation for resident education. He is currently enrolled in at-distance Masters of Education.

PROMOTIONS/APPOINTMENTS

Christopher Caldarone was promoted to Senior Associate Scientist at The Hospital for Sick Children Research Institute.

Osami Honjo was appointed as an Associate Scientist in The Hospital for Sick Children Research Institute.

David Latter was appointed Chief of the Division of Cardiac Surgery at St. Michael’s Hospital. He succeeded Lee Errett who was instrumental in building this division at St. Michael’s into a powerful academic program with the strategic recruitments of Subodh Verma and Mark Peterson.

Vivek Rao was appointed Director of the Cardiac Business Unit at the Peter Munk Cardiac Center/UHN and Chair of the Physician Payment Review Board in MOHLTC.

Hugh Scully was appointed President of the UHN-MSH Health Practitioners’ Funding Group and was appointed a member to the UHN-MSH, AMO Management Committee. Dr. Scully presented the 2010 Bigelow Lecture at the Canadian Cardiovascular Congress.

FACULTY HONOURS/AWARDS

Christopher Caldarone was appointed to the Board of Directors for the Society of Thoracic Surgeon as the Canadian Director and was appointed Managing Director of the CHSS Data Center by the Congenital Heart Surgeons Society.

Osami Honjo received the University of Toronto Roscoe Reid Graham Scholarship in Surgical Sciences

Hugh Scully received the Canadian Medical Association’s Medal of Service, the Annual Lifetime Achievement Award from the Canadian Cardiovascular Society, and presented the Bigelow Lecture at the 2010 Canadian Cardiovascular Congress.

Subodh Verma received the Howard Morgan Scientist Award from the International Society of Heart Research and was co-recipient of the Dean A.L. Chute Award (The Silver Shovel). Dr. Verma was named Male Professional of the Year from the Indo-Canadian Chamber of Commerce. Under Dr. Verma’s supervision, Dr. Praphulla Shukla is a Vivian Thomas Young Investigator Finalist for his work.
entitled “MicroRNA-145 Targeted Therapy Reduces Atherosclerosis and Induces Features of Plaque Stability.” Eight abstracts submitted from Dr. Verma’s lab were accepted to the 2011 AHA program.

Richard Weisel was appointed Chairman of the Innovation Fund Provincial Oversight Committee and Member of CIHR Review Committee. Dr. Weisel maintains his membership with the Executive Committee of the RED-CABG Trial the Scientific Advisory Committee of the LeDucq Foundation.

FACULTY GRANTS
Stephanie Brister holds a grant from the Canadian Institutes of Health Research.

Christopher Caldarone holds a grant from the Heart and Stroke Foundation of Ontario and is a co-investigator on grants from the LeDucq Foundation and Children’s Heart Foundation. Dr. Caldarone manages the finances of the CHSS Datacenter.

Gideon Cohen continues to hold two grants from the Cardiothoracic Surgery Network (NIH/CIHR).

John Coles continues to hold grants from the Heart and Stroke Foundation of Ontario and the Canadian Institutes of Health Research.

Christopher Feindel holds two grants from the Heart and Stroke Foundation of Ontario.

Stephen Freem holds grants from the Canadian Institutes of Health Research, the Heart and Stroke Foundation, CANNeCTIN, the Schering-Plough Research Institute, Astra-Zeneca Research, and F. Hoffmann-la Roche Ltd.

Vivek Rao holds a grant from the Heart and Stroke Foundation of Canada.

Glen Van Arsdale holds two grants from the Heart and Stroke Foundation of Ontario.

Subodh Verma holds three grants from the Heart and Stroke Foundation of Canada and two from the Canadian Institutes of Health Research.

Richard Weisel continues to hold grants from the Heart and Stroke Foundation of Ontario, the Canadian Institutes of Health Research and the Canadian Foundation for Innovation.

Terrence Yau holds grants from the Heart and Stroke Foundation of Canada and the Heart and Stroke Foundation of Ontario.

RESIDENTS AND FELLOWS HONOURS/ AWARDS
Mitesh Badiwala received the inaugural Shafie S. Fazel Outstanding Resident Surgeon and Investigator Award from University of Toronto.

Mitesh Badiwala and his mentor, Vivek Rao received the 2010 Vivien Thomas Young Investigator Award from the American Heart Association for their work entitled “Epidermal Growth Factor-Like Domain 7 is a Novel Inhibitor of Neutrophil Adhesion to Coronary Artery Endothelial Cells Injured by Calcineurin Inhibition.”

Saswata Deb received the Sopman Humanitarian Award from the University Health Network and was accepted into the Surgeon Scientist Program.

Edward Hickey received the Zane Cohen Clinical Fellowship Achievement Award from University of Toronto.

Daniel Lodge received the Harrison Award from Sunnybrook Health Sciences Centre.

Bobby Yanagawa received the Heimbecker Award from the University of Toronto.

New Residents
The Division of Cardiac Surgery welcomes two new residents to the cardiac surgery training program: Mohammed Al Jughiman and Jordan Van Orman.

VISITING PROFESSORS
Dr. Gregory Hirsch, Cardiovascular Surgery, Queen Elizabeth II Health Sciences Centre, Dalhousie University presented the Bigelow Lecture, “Continuous Quality Improvement: Lessons Learned in Pursuit of Kaizen” on October 1, 2010.

Dr. Ivan Rebyka, Professor, University of Alberta presented "The Making of a Pediatric Surgeon" and Dr. Marc Ruel, Professor, University of Ottawa Heart Institute presented "The Why and How of Being a Surgical Young Investigator: Tips from a Recent Victim" at 15th Annual Terence Donnelly Cardiac Residents Research Day on June 11, 2011.
The Division of General Surgery continued to grow and become increasingly integrated over the course of the 2010-2011 academic year.

DIVISIONAL GROWTH AND DEVELOPMENT

It may be cogently argued that the most important thing that a university-wide division of general surgery can do is to connect the talent, productivity and potential of the individuals and individual units across the city. Viewed through this lens, there continues to be evidence that the Division of General Surgery at the University of Toronto is growing and developing. Across the city there are a number of very talented and productive individuals. When these groups get together, the effect is particularly positive. Examples abound but the recent focus on combining the trauma enterprise of St. Michael’s Hospital and Sunnybrook Health Sciences Centre is a good example. Led by Drs. Avery Nathens and Homer Tien, there has been an increased focus on developing a combined approach to trauma care and trauma academics in Toronto. Importantly, the appointment of Mary Chen as University of Toronto Trauma Program Advisory Committee Research Manager has begun to catalyze an ongoing integration of the two units.

A further example is the connection that continues to evolve between minimally invasive surgery (MIS) experts across the city. Dr. Allan Okrainec has energetically led the MIS Fellowship as this program continues to become increasingly competitive and attracts superb applicants from around the world. Most importantly, the training program was recently assessed and received full accreditation by the Fellowship Council. Other U of T leaders such as Dr. John Hagen have worked in a steadfast manner to increase the profile of minimally invasive surgery through the development of citywide MIS and obesity rounds and, by extension, knitted together a citywide community.

The 2010-11 academic year also saw the realization of the Ontario Peritoneal-Based Malignancy Program (PBMP) which is a collaborative, inter-institutional, interdisciplinary program based at the Mt. Sinai Hospital. This program will allow Ontario residents to get state of the art treatment for this complex malignancy and it dovetails beautifully with the research programs of investigators such as Drs. Andrea McCart at the Mt. Sinai Hospital.

The General Surgery Residency program proudly graduated the following newly minted surgeons who have gone on to diverse “next steps” in their careers:

<table>
<thead>
<tr>
<th>Name</th>
<th>Where Are They Now?</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ali, Kaes</td>
<td>Breast Fellowship-U of T</td>
</tr>
<tr>
<td>Bhojani, Faizal</td>
<td>MIS Fellowship-U of T</td>
</tr>
<tr>
<td>Elgadi, Khaled</td>
<td>Clinical Associate-NYGH-Moving to Northern Ontario</td>
</tr>
<tr>
<td>Eskicioglu, Cagla</td>
<td>Colorectal Fellowship at Lahey Clinic, Boston</td>
</tr>
<tr>
<td>Hariri, Farzad</td>
<td>Clinical Associate-Trillium</td>
</tr>
<tr>
<td>Ibrahim, Amir</td>
<td>Clinical Associate-Toronto Western Hospital</td>
</tr>
<tr>
<td>Kapila, Varun</td>
<td>Vascular fellowship - U of T</td>
</tr>
<tr>
<td>Nenshi, Rahima</td>
<td>MIS/Surgical Oncology Fellowship - U of T</td>
</tr>
<tr>
<td>Orzech, Neil</td>
<td>MIS fellowship - Cleveland Clinic</td>
</tr>
<tr>
<td>Shawyer, Anna</td>
<td>Pediatric Surgery Fellowship-McMaster University</td>
</tr>
<tr>
<td>Simpson, Jory</td>
<td>Breast fellowship - U of T</td>
</tr>
</tbody>
</table>
The new residents starting in the 2010-2011 class came from diverse medical schools as always. In a very competitive year, the University of Toronto was very lucky to attract its most highly ranked applicants. The new class includes the following:

<table>
<thead>
<tr>
<th>Name of Resident</th>
<th>Medical School and Year of Graduation</th>
</tr>
</thead>
<tbody>
<tr>
<td>Abramowitz, Daniel</td>
<td>Queens University, 2011</td>
</tr>
<tr>
<td>Byrne, James</td>
<td>Trinity University of Dublin, 2011</td>
</tr>
<tr>
<td>Cherniak, William</td>
<td>University of Calgary, 2011</td>
</tr>
<tr>
<td>Connor, Ashton</td>
<td>University of Toronto, 2009</td>
</tr>
<tr>
<td>Elmi, Maryam</td>
<td>University of Toronto, 2011</td>
</tr>
<tr>
<td>Ergun, Suzan</td>
<td>McGill University, 2011</td>
</tr>
<tr>
<td>Gomez, Jaramillo, David</td>
<td>Javeriana University, Bogota 2007</td>
</tr>
<tr>
<td>Greenberg, Joshua</td>
<td>University of Toronto, 2011</td>
</tr>
<tr>
<td>Maggisano, Melinda</td>
<td>Trinity University of Dublin, 2011</td>
</tr>
<tr>
<td>Mutabdzic, Dorotea</td>
<td>University of Toronto, 2011</td>
</tr>
<tr>
<td>Pannell, Dylan</td>
<td>Queens University, 2007</td>
</tr>
<tr>
<td>Pooni, Amandeep</td>
<td>University of Toronto, 2011</td>
</tr>
<tr>
<td>Qureshi, Adnan</td>
<td>University of the Americas, 2011</td>
</tr>
<tr>
<td>Ramji, Karim</td>
<td>University of Alberta, 2009</td>
</tr>
<tr>
<td>Seemann, Natasha</td>
<td>University of Western Ontario, 2011</td>
</tr>
<tr>
<td>Strickland, Matt</td>
<td>Northern Ontario School of Medicine, 2010</td>
</tr>
<tr>
<td>Szasz, Peter</td>
<td>University of Toronto, 2011</td>
</tr>
<tr>
<td>Wong-Chong, Nathalie</td>
<td>University of Toronto, 2011</td>
</tr>
<tr>
<td>Yang, Teng-Chih Tony</td>
<td>University of Toronto, 2011</td>
</tr>
<tr>
<td>Simpson, Jory</td>
<td>Breast fellowship - U of T</td>
</tr>
</tbody>
</table>

Promotion within the Faculty of Medicine is the ultimate measure of individual academic growth and contribution. In the Division of General Surgery, six were promoted to Associate or Full Professor:

<table>
<thead>
<tr>
<th>Name of Resident</th>
<th>Medical School</th>
<th>Promoted Position</th>
</tr>
</thead>
<tbody>
<tr>
<td>Urbach, David</td>
<td>UHN</td>
<td>Promoted to Professor</td>
</tr>
<tr>
<td>Smith, Andy</td>
<td>SHSC</td>
<td>Promoted to Professor</td>
</tr>
<tr>
<td>Azzie, Georges</td>
<td>HSC</td>
<td>Promoted to Associate</td>
</tr>
<tr>
<td>Gagliardi, Anna</td>
<td>UHN</td>
<td>Promoted to Associate</td>
</tr>
<tr>
<td>Grantcharov, Teodor</td>
<td>SMH</td>
<td>Promoted to Associate</td>
</tr>
<tr>
<td>Reedijk, Michael</td>
<td>UHN</td>
<td>Promoted to Associate</td>
</tr>
</tbody>
</table>

TEACHING

In the teaching domain, it is noteworthy that Dr. Frances Wright won the 2011 Tovee Award for Undergraduate Teaching Excellence.

Additionally, Dr. Najma Ahmed and colleagues formally announced the plan to proceed with a modified competency-based curriculum starting in January 2012. This represents a bold innovation in residency training and takes advantage of the substantial body of educational research that has been done in this university department for the last many years by Dr. Teodor Grantcharov and others.

The teaching impact of the Division extends into continuing education. The 51st Update in General Surgery took place at the Fairmont Royal York Hotel and was a huge success, attracting of over 500 registrants.

The continuing education offerings of the division also extend to the Best Practices in General Surgery (BPGS) program. This program championed by Dr. Robin McLeod continues to grow in stature across the city. Hospital administrators have invested in the BPGS initiative and the program continues to expand its range of quality issues that it addresses. The expectation is that the BPGS program will gradually disseminate and impact the quality of surgery throughout the province. Similarly, the Evidence-Based Reviews in Surgery (EBRS) which has been developed and championed through the efforts of Dr. McLeod and her team represent a major tangible teaching contribution from the Division.

Two new faculty were appointed to the “core” general surgery units. Dr. Anand Govindarajan returned to the University of Toronto after a two year surgical oncology fellowship at Memorial Sloan Kettering Cancer Centre. He will join the team at Mt. Sinai and contribute to the ongoing development of the PBMP and other GI surgical oncology at Mt. Sinai and Princess Margaret Hospital. Similarly, Dr. Paul Karanicolas, a graduate from the University of Western Ontario residency program and Memorial Sloan Kettering Cancer Centre Fellowship program, was recruited to the University of Toronto. He took on a position as a Hepatobiliary surgeon at Sunnybrook Health Sciences Centre and the Odette Cancer Program. His academic expertise is in clinical trials.
RESEARCH
Research continues to flourish within the Division. There were 12 General Surgery residents in the Surgical Scientist training Program (SSP) during the 2010-11 academic year. Graduates from the program during that time included:

<table>
<thead>
<tr>
<th>Resident</th>
<th>Supervisors</th>
</tr>
</thead>
<tbody>
<tr>
<td>Elisa Greco, MEd (OISE)</td>
<td>Dr. Allan Okrainec</td>
</tr>
<tr>
<td></td>
<td>Dr. Albert Matthieu</td>
</tr>
<tr>
<td>Bryan J. Wells, MSc (HPME)</td>
<td>Dr. David Urbach</td>
</tr>
<tr>
<td>Simon Yang, MSc (HPME)</td>
<td>Law, Calvin</td>
</tr>
</tbody>
</table>

Importantly, two general surgery residents won Gallie-Bateman awards:

Eisar Al-Sukhni - 2nd Prize - *Diagnostic accuracy of MRI for assessment of T-category, nodal metastases and circumferential resection margin involvement in patients with rectal cancer: A meta-analysis* [Supervisor: Dr. Robin McLeod]

Barbara Haas - 3rd Prize - *Survival of the fittest: The hidden cost of under triage of major trauma* [Supervisor: Dr. Avery Nathens]

The 34th Annual Assembly of General Surgeons held on May 26th, 2011 at the Sutton Place Hotel was an extraordinary success. The Assembly highlights the scientific and academic achievements of the division as well as celebrating the graduating resident class. Professor Michael Solomon from the University of Sydney was the Bruce Tovee lecturer and highlighted a day that celebrated our University of Toronto Fellowships. Importantly, this was a homecoming for Professor Solomon who trained in the Colorectal Fellowship at the University of Toronto and has gone on to become a world leader in colorectal cancer.

Several awards were garnered by General Surgery faculty over the past year. A full list can be seen in the Departmental reports in this volume.
The Division of Neurosurgery continued in its tradition of strong academic performance in its first year under the leadership of a new Chair and Residency Program Director. Our 66 faculty and residents published over 250 papers in top-tier journals including *Nature* and the *New England Journal of Medicine*. We established a Neurosurgical Education Cabinet to further enhance our world-class residency training program. Our residents captured three of four McKenzie Prizes, the most prestigious neurological resident awards in the country. The year culminated with the establishment of the $5.5M Greg-Wilkins Barrick Chair in International Surgery at UHN and the appointment of Mark Bernstein as the inaugural chairholder, representing the largest ever gift in the history of our Division.

**RECRUITMENT**

Sunit Das is an outstanding neurosurgeon who we recruited to the Department as a Surgeon-Scientist and to the surgical staff at St. Michael’s Hospital. Dr. Das’ clinical interest is in the surgical management of malignant brain tumours, with research interests in the biology of stem cells in the normal adult brain and in primary brain tumours. Past funding support from the Howard Hughes Medical Institute reflects the high level of excellence that he brings to our Division.

Nicholas Phan was appointed as a Surgeon-Investigator in the Department and to the surgical staff at Sunnybrook Health Sciences Centre. After his residency in Toronto, Dr. Phan completed a 2-year clinical fellowship in neurotrauma at the UCSF. He returns to us as arguably one of the best trained trauma neurosurgeons in the country. Dr. Phan’s research is focused on the development of medical and surgical protocols for the treatment of severe traumatic brain injury.

**PROMOTIONS**

James Eubanks [affiliate scientist] has been promoted to Full Professor.

Moghan Hodaie now holds the rank of Associate Professor.

Gelareh Zadeh has been promoted to the rank of Assistant Professor.

**FACULTY AND RESIDENT GRANTS**

Karen Davis received a 5-year Canadian Institutes of Health Research Grant for her work on “Pain-Attention Interactions and the Descending Pain Modulation System.”

Karen Davis received a 3-year grant from Workplace Safety and Insurance Board (WSIB) for her work on “Pre-existing patient factors associated with sensorimotor recovery, chronic pain, and brain plasticity following surgical repair of peripheral nerve injuries.”

Michael Ellis and Peter Dirks were awarded a grant from the Ontario Ministry of Health/Ontario Stroke System to support a pilot study of a prospective pediatric cerebrovascular disease database at The Hospital for Sick Children.

Michael Fehlings was awarded a 1-year CIHR Proof of Principle grant for his project entitled “Commercial development of bioengineered therapeutic strategy for spinal cord injury.”

Michael Fehlings was awarded a 2-year McEwen Acceleration Award from the McEwen Centre for Molecular Medicine for his project, “iPS neural stem cells and bioengineered strategies to treat chronic spinal cord injury.”

Michael Fehlings was awarded a Hansjörg Wyss Foundation Award for his project “Intervertebral disc-derived multipotent stem cell rescue of the injured spinal cord.”

Howard Ginsberg and Cari Whyne received a Commercialization grant from MaRS Innovation for their project entitled: Spinous Process Less INvasive Extendable fusion.

Ab Guha has received a 5-year CIHR grant for his work “Oncogene-containing microvesicles as mediators and messengers of tumor progression.”

Ab Guha received a 2-year grant from the Cancer Research Society for his work on “Aberations in EGFR in Human GBMs: Novel Diagnostic and Biomarker Strategies.”

Ab Guha received a 2 year grant from B.R.A.I.N Child for his work on Receptor Tyrosine Kinase Expression, Activations and Inhibition in High Grade Pediatric Gliomas.

Ab Guha received a one-year grant from Brain Tumour Foundation of Canada for his work on the” Role of Peroxisomes in Gliomas.”

Clement Hamani received a 4-year team grant from
the Canadian Institutes of Health Research (CIHR) and the ERA-NET project for his work describing the pathophysiology to promote focal therapy in the treatment of schizophrenia - an animal experimental study.

**Clement Hamani** received a 4-year CIHR operating grant for his work on “Antidepressant effects of deep brain stimulation and the serotonergic system.”

The Stereotactic and Functional Neurosurgery Program at Toronto Western Hospital [Andres Lozano] was awarded a 1-year Fellowship Grant by the Neurosurgery Research and Education Foundation (NREF). The grant was made possible by funding from Codman & Shurtleff.

**Loch Macdonald** received a 2-year grant from the Heart and Stroke Foundation of Ontario, for his work entitled "Endothelial nitric oxide synthase after subarachnoid hemorrhage."

**James Rutka** received a research grant for his work entitled "The Role of Dysregulated HGF/c-Met pathway Signalling in Medulloblastoma Dissemination" from the Brain Tumour Foundation of Canada.

**Charles Tator** and **Karen Davis** received a 2-year grant from Services Incorporated Foundation for their work on post-concussion syndrome in professional athletes: A multidisciplinary study.

**Jeff Wilson** was selected for a Cervical Spine Research Society Resident/Fellow grant for his project entitled, “Determinants of outcomes from traumatic spinal cord injury: Development of a novel classification system to facilitate clinical trials and improved therapeutic strategies.”

**Victor Yang** received a CIHR operating grant for his project on "Optical Coherence Tomography for Intraoperative Imaging During Skull Base Neurosurgical Procedures."

**Gelareh Zadeh** received a B.R.A.I.N.child grant for her work "Identifying non-invasive biomarkers of response to combinatorial antiangiogenic and radiation therapy."

**Gelareh Zadeh** received a grant from the Brain Tumor Foundation of Canada for her work on "Identifying genetic profile of bone invading meningiomas."

**RESIDENTS AND FELLOWS HONOURS/AWARDS/POSITIONS HELD**


**David Cadotte** was awarded the prestigious Starr Medal.

**David Cadotte** was the recipient of two UoT Postgraduate Awards, the Miriam Neveren Memorial Award and the Joseph M. West Family Memorial Fund.

**Douglas Cook** won the 2011 CNSS McKenzie first prize for Basic Science for his manuscript entitled “Extending the therapeutic window for reperfusion after stroke in nonhuman primates using a PSD-95 inhibitor.”


**Mike Ellis** received a Travelling Fellowship from the American Association of Neurological Surgeons/ Congress of Neurological Surgeons Section on Pediatric Neurological Surgery (Children’s Hospital Boston, January-February 2011.)

**Greg Hawryluk** won the 2011 CNSS McKenzie second prize for Basic Science for his manuscript entitled “Understanding How a Cell Transplantation Paradigm Leads to Functional Recovery From Spinal Cord Injury: The Importance of Remyelination.”

**Greg Hawryluk** received 3rd place for the Gallie-Batemat Prize for his work entitled "Remyelination is the key mechanism underlying functional recovery from spinal cord injury following neural precursor cell transplantation."

**Gregory Hawryluk** was “Top Gun” at the Brain Tumour Debulking, Top Gun Challenge, 2011 American Association of Neurosurgeons Annual Meeting, April 10-13, 2011 in Denver, Colorado.

**Betty Kim** was selected as this past year’s Royal College Fellowship Winner.

**Betty Kim** was awarded by the EANS-CNS as one of five residents in North America to attend the EANS-CNS course on Brain Tumors held in Halkidiki, Greece in September, 2010.

**Adrian Laxton** won the 2011 Canadian Neurosurgical Society KG McKenzie Memorial Prize for Clinical Neuroscience Research. His manuscript submission was entitled ‘A Phase I Trial of Deep Brain Stimulation of Memory Circuits in Alzheimer Disease.’

**Scellig Stone** was awarded the American Academy of Neurosurgery resident award for his PhD-related work on deep brain stimulation inducing neurogenesis. This international award is the most prestigious given to a resident by a neurological body, and we are proud that it has been conferred once again to a resident from the University of Toronto.

**Adrienne Weeks** received 1st place for the Gallie-Batemat Prize in the competition for her work entitled “ECT2 and RASAL2 mediate mesenchymalamoeboid transition in human astrocytoma cells.”

**Jeff Wilson** was awarded a 2-year fellowship from the Christopher Reeve Foundation for his project entitled, “Determinants of outcomes from traumatic spinal cord injury: Development of a novel classification system to facilitate clinical trials and improved therapeutic strategies.”
FACULTY HONOURS/AWARDS/POSITIONS HELD


Mojgan Hodaie was awarded the Wightman-Berris Award for postgraduate education.

Abhaya Kulkarni was named the new Residency Program Director after a rigorous search and selection process.

Andres Lozano was recipient of the 2010 Winn Prize Award from the Society of Neurological Surgeons. He also became the Chair of the Division of Neurosurgery.

James Rutka served as the President of the American Association of Neurological Surgeons. He was also appointed Chair of the Department of Surgery at UofT, the first Department of Surgery Chair from Neurosurgery; and was elected to Fellowship in the Canadian Academy of Health Sciences (CAHS).

Charles Tator was the recipient of the 2011 Global Impact Award, given to UHN staff members who have been leaders in medicine and science, and whose past work have led to improvements in health care well beyond our borders.

Michael Taylor received the George Armstrong-Peters Prize for outstanding achievements in research by a surgical faculty at the early stages of their career. He also ranked #2 in the Toronto Star’s list of the biggest scientific discoveries of 2010.

Michael Tymianski was awarded a Tier 1 Canada Research Chair in Translational Stroke Research. This prestigious appointment recognizes outstanding Canadian scientists. Michael joins the ranks of only a select few surgeons who have attained this level of achievement in their research careers. He also received an ORF grant from the Ministry of Research and Innovation for 5 years for TRPM7 Inhibitors for the treatment of stroke and myocardial ischemia.

Gelareh Zadeh received the Annual Clinician Scientist Award at the American Society for Therapeutic Radiation and Oncology (ASTRO) Annual Meeting.

VISITING PROFESSORS

E. Harry Botterell Professorship
We were pleased to receive Professor Matthew Howard III as the 28th Botterell Visiting Professor on Nov. 18-19, 2010. The visit included case presentations by the residents chaired by Taufik Valiante and the Horsey Prize competition for clinical research chaired by Mojgan Hodaie.

William S. Keith Professorship
On June 9-10, 2011, we welcomed Dr. Nelson Oyesiku to Toronto as our 36th Annual Keith Visiting Professor. Dr. Oyesiku delivered three lectures, including The Royal College of Physicians and Surgeons of Canada Lecture as well as an excellent talk on “What you should know about publishing in NEUROSURGERY,” given in his capacity as the journal’s Editor-in-Chief.

Marshall Lectureship
This past year’s Marshall Lecture was held on April 27, 2011 at Toronto Western Hospital. Dr. Andres Maas, Professor and Chairman of the Dept. of Neurosurgery, University Hospital Antwerp, Belgium spoke on “Achievements, failures and future direction of clinical research in TBI.”

Tator-Turnbull Lectureship
The 10th Annual Charles H. Tator-Barbara Turnbull Lectureship in Spinal Cord Injury took place on November 12, 2010. Our Visiting Lecturer was Dr. V. Reggie Edgerton, Professor and Vice-Chair of Integrative Biology and Physiology at the Brain Research Institute, UCLA.

Krembil Neuroscience Centre Grand Rounds
This year’s Krembil Neuroscience Centre Grand Rounds were held in conjunction with the University of Toronto City-Wide Neurosurgery Rounds on February 17, 2011 at Toronto Western Hospital. Our speaker was Jack El-Hai, author of “The Lobotomist” and contributor to The New Yorker and Scientific American.

Sunnybrook Hospital City-Wide Rounds
Dr. Evandro de Oliveira was our Visiting Professor for City-Wide Rounds held at Sunnybrook Hospital on April 9, 2011. Dr. Oliveira is a master microneurosurgeon who for many years performed neuroanatomical work with Dr. Rhoton.

DIVISION FIRSTS
In the Fall of 2010, our Division created its first Neurosurgical Education Cabinet, in charge of maintaining and enhancing the standard of excellence that our residency program is recognized for around the world. Joining Residency Program Director Abhaya Kulkarni were Eric Massicotte as Director of Undergraduate Education for the Division of Neurosurgery, Julian Spears as Associate Residency Program Director, and Todd Mainprize as Fellowship Director for the Division of Neurosurgery, thereby providing balanced representation across our Division’s hospitals.

In a new tradition for our Division, we combined the annual William S. Keith Professorship dinner with a graduation ceremony for our PGY6 residents. Andres Lozano, Abhaya Kulkarni and Keith Professor Nelson Oyesiku presented our graduating residents with mounted photographs taken with their mentors. Two new endowed chairs were planned or established during this academic year:

[1] A fundraiser for an Endowed Chair for the Division Chief of Neurosurgery at Toronto Western Hospital,
and [2] Awarding the Greg Wilkins-Barrick Chair in International Surgery to Mark Bernstein as the inaugural Chair. The latter represents the largest ever gift to our Division and is a well-deserved recognition of his work in Neurosurgery at the University of Toronto.

ROYAL COLLEGE FELLOWSHIPS

The following residents successfully passed their 2011 FRCSC fellowship examinations: Ryan DeMarchi, Zul Kaderali, Paul Kongkham and Adrian Laxton.

The Division of Neurosurgery has passed the test of leadership change this past year. We continue to be a premiere program with special stature globally, one that the world looks to for leadership on clinical and academic fronts. Our research productivity as measured by papers, citations and impact is stellar. Our residents are consistently recognized with the top trainee awards in our discipline. I thank each of our faculty, residents and fellows for their outstanding contributions to our academic excellence.
Our academic footprint is a measure of how we impact orthopaedics internationally. It is a measure of the impact of our publications, the number of our trainees who develop successful academic careers outside of Toronto, and how our work improves the outcome for the patients we treat. We have one of the world’s largest academic footprints, having ranked third in the world in peer-reviewed publications last year, and this accomplishment is in no small part due to our strong focus on research.

The University of Toronto’s Division of Orthopaedic Surgery is continuing in its long history of excellence in clinical care, teaching, and research. Our faculty’s renewed focus on innovation and integration has resulted in new education, research, and clinical advances. I am proud of how well our division members are working together on inventing the future of Toronto Orthopaedics.

RECRUITMENT
We welcomed two new recruits this academic year, Richard Jenkinson and Simon Kelley. Richard has a clinical practice focused on trauma and lower limb reconstruction and an academic focus on education. Simon’s pediatric orthopaedic practice focuses on limb reconstruction and hip surgery with a research focus on stem cell technologies and how they may be used to enhance limb regeneration. We all welcome Richard and Simon to our faculty.

PROMOTIONS
Congratulations to our faculty who were successful at academic promotion this year at the university. Peter Ferguson and Unni Narayanan were promoted to Associate Professor. Thanks also to our division member, Robin Richards, who chaired the Departmental Promotions Committee.

RESEARCH GRANTS
The past several years have seen the development of new technologies and research paradigms that have improved the quality and clinical applicability of our research work. These developments are associated with growth in the size of the biomedical research community and the expense of undertaking high quality research studies. Indeed there has been tremendous growth in the Toronto research community over the past decade. Unfortunately, national research funding has not kept pace with the increased costs associated with undertaking this high quality research. Despite these challenges, we continue to maintain research funding at a high level, garnering a total of more than $6 million dollars this year.

RESIDENT/FELLOWS HONOURS/AWARDS/POSITIONS HELD
The Lawson Award for Best Academic Resident, as adjudicated by a committee, went to Om Sharma, and the Meisami Award for Most Compassionate Resident, as selected by the faculty, went to Syndie Singer. The R.I. Harris Award for the best presentation during Graduation Day went to Ali Zahrai. Recognized for best sports medicine talk was Bob Jackson. The award for Best Paediatric Paper went to Nick Yardley, Harsha Malempati and Om Sharma respectively. The James Waddell Award for the Best POY 4 Resident went to Christopher Geddes. Tim Daniels received the Divisional Award for Best Teacher as selected by the residents.

Jas Chahal, an orthopaedic fellow who graduated from our program last year, got an Honorable Mention for his presentation: “The multi-ligament quality of life questionnaire (ML-QOL): Development and preliminary testing of measurement properties in patients with multi-ligament knee injuries” [supervisor Aileen Davis].

VISITING PROFESSORS
Leo Donnan [Melbourne], Jane Aubin [U of T], Mohit Bhandari [Hamilton], Herb Schwartz [Nashville, Tennessee], Peter Choong, [Melbourne], Stefan Lohmander [Lund, Sweden], Martin Boyer [Saint Louis] and Shafige Pirani [UBC] all visited Toronto this year and gave University wide grand rounds.

Our Graduation Day Visiting Professor was Richard Gelberman, the Fred C. Reynolds Professor and Chairman of the Department of Orthopaedic Surgery at Washington University Medical School in St. Louis, Missouri. He gave a fabulous and very insightful “Nerve Repair” talk as his Salter lecture. Graduating residents presented their research work during the main Graduation Day activities.

FACULTY HONOURS/AWARDS/POSITIONS HELD
Two of our faculty members each received university-wide education awards: David Backstein was recipient of the Dean A.L. Chute Award (The Silver Shovel) Award, for Excellence in Postgraduate Medical Education; and the Innovation in Postgraduate Education Award went to Albert Yee.

Bill Kraemer received the Tovee Postgraduate Prize for his educational achievements and Ben Alman earned the Charles Tator Award for his training of surgeon scientists at Gallie Day this year.

Our faculty received a large number of awards this past year and these are listed elsewhere in this annual report.
DIVISION’S FIRSTS
We completed the second year of our competency-based curriculum. This pilot program, approved by The Royal College of Physicians and Surgeons of Canada and funded by the Ontario Ministry of Health and Long Term Care, is the only entirely competency-based residency training program that we are aware of in the world. I want to take this opportunity to thank all of our faculty members who worked on this initiative. Markku Nousiainen, our newly appointed Associate Program Director, and Peter Ferguson, our newly appointed Residency Program Director, and Connie Johnson, the administrative coordinator for the program, have done a phenomenal job in running the day to day aspects. By all measures, this program has been a great success, with residents in the program achieving levels of competency in a single year that would have taken several in the traditional stream. Some of the components have been so overwhelmingly successful, such as the initial module that we incorporated this into our training program for all residents this July. Our third cohort of trainees entered the program this year, and we are looking forward to reporting our results of this very innovative educational program. There is worldwide interest in this program, and I am delighted that the first peer-reviewed publications on the outcome of this novel training approach were published this past year. This is the first such curriculum, which will likely be a fundamental improvement over the current residency training model.

The Toronto Musculoskeletal Centre (a university-wide extra-departmental unit) was initiated this year. While the centre crosses all institutions and departments across the broad University of Toronto and its affiliated hospitals community, the centre has two nodes at Sunnybrook Hospital and Mount Sinai Hospital. The centre will focus on developing initiatives to help translating research from bench to bedside, to the backyard. It will develop a new graduate education program, provide seed funding for interdisciplinary research, and help with the recruitment of new MSK researchers to Toronto. Its ultimate goal is to develop new and improved methods of treating patients with orthopaedic and other musculoskeletal conditions. Our division members will be able to use the centre infrastructure to develop multi-centre research and to help develop new interdisciplinary work.

Sevan Hopyan and Cari Whyne, as co-Chairs of our research committee continue to do a fabulous job overseeing and mentoring the residents who entered their integrated research and clinical year. Their participation in this novel combined clinical and research training program has facilitated the ability of our trainees to participate in high level research, resulting in an overall increase in our research productivity.

LEADERSHIP CHANGES/PROGRESSIONS
This past year, Bill Kraemer stepped down as our Residency Program Director. He did a stellar job over the past five years, maintaining a top-notch residency, recruiting stellar new residents, achieving a high pass rate at The Royal College examination, and instituting the competency-based curriculum. Our program, however, is in great hands with Peter Ferguson as our newly appointed Program Director. One of his initiatives will be to take the best aspects of the competency-based curriculum and the traditional curriculum to develop a new residency-wide comprehensive orthopaedic curriculum.

Our multi-site clinically-based programs continue to mature. Albert Yee (Sunnybrook) has been doing a great job (along with Michael Fehlings, Neurosurgery-TWH) as co-Director of the UofT Spine Program. This program is not only integrating spine care, education and research across orthopaedics but also between orthopaedics, neurosurgery and other disciplines treating the spine.

Tim Daniels (SMH) is the inaugural head of our foot and ankle program. The program arose following an external review of foot and ankle care, education, and research, undertaken last year. It will work to develop a Toronto-wide foot and ankle education program (including a city-wide fellowship program), coordinate care between foot and ankle specialists in the GTA, and to encourage new research in this field.

Darrel Ogilvie Harris (UHN and Women’s) was selected as Interim Head of our Sports Program. This program united clinicians from several of our hospitals and developed shared clinical resources for outpatient care at Women’s College Hospital towards the development of an innovative comprehensive sports clinical, education, and research program.

FURTHER DEVELOPMENTS
We worked to develop a renewed strategic plan for our division this past year, entitled “Innovation and Evolution: Inventing the future of Toronto Orthopaedics.” Over the next five years we will focus on [1] establishing the best orthopaedic training program in the world; [2] leveraging the newly established Toronto Musculoskeletal Centre to develop world class innovations in patient care based on high quality research; [3] increasing clinical coordination of orthopaedic clinical care delivery among the Toronto hospitals; and building stronger relationships with alumni. I am delighted that our faculty has decided on such lofty goals, and am looking forward to the accomplishments we will achieve as we implement measures towards achieving these goals.
The Division of Plastic and Reconstructive Surgery has continued to experience growth and development over the past academic year. We remain the largest academic Division of Plastic and Reconstructive Surgery in North America and have become a top choice for some of the world’s leading plastic surgery researchers, educators, clinicians and students. Our faculty, trainees and alumni continue to make significant contributions to and lead in the areas of plastic surgery research, education and clinical practice.

RECRUITMENT

Linda Dvali was appointed as the new Division Head to the Toronto East General Hospital as of April, 2011. Dr. Dvali’s teaching expertise and leadership skills will strengthen the residents’ rotation experience at the Toronto East General Hospital and continue to build a strong relationship with the University of Toronto.

Atul Kesarwani was appointed as part-time Lecturer at the University of Toronto. Dr. Kesarwani trained in General Surgery in Ottawa and obtained his Plastic Surgery training at the University of Toronto. He has been on Active Staff at the Toronto East General Hospital since 1988 and Division Head from 1994-2005.

Laura Snell was recruited to the Sunnybrook Health Sciences Centre as an Assistant Professor on September 1, 2010. Dr. Snell’s practice of surgery includes a special expertise and interest in oncology reconstruction with a major focus in breast reconstruction. Dr. Snell will take on the leadership role of Journal Club Coordinator for the Division as of July 1, 2011.

Joan Lipa was recruited to the Sunnybrook Health Sciences Centre as an Associate Professor on January 4, 2011. Dr. Lipa is partnering with Dr. Snell to develop the Breast Reconstruction and Oncologic Reconstructive Service and Research Group at Sunnybrook Health Sciences Centre. They are able to offer immediate reconstruction at Sunnybrook through a coordinated effort with Surgical Oncologists at the Odette Cancer Program. Dr. Lipa’s practice of surgery includes a special expertise and interest in oncology reconstruction.

Christine Novak was recruited as an Associate Professor with the Division of Plastic and Reconstructive Surgery, Department of Surgery, as a Scientist at the Toronto Rehabilitation Institute and a Research Associate at the University Health Network in the Hand Program (Toronto Western Hospital) and the Wharton Head & Neck Centre. She has a Bachelor of Science (Honours Kinesiology) from the University of Waterloo, a Bachelor of Science in Physical Therapy and a Master of Science degree from the University of Toronto. In 2010, she completed her PhD at the Institute of Medical Science at the University of Toronto and the title of her dissertation was Biomedical and Psychosocial Factors Associated with Pain and Disability after Peripheral Nerve Injury. Her research focus has been in the area of clinical outcomes and assessment of patients with musculoskeletal disorders, particularly nerve injury and nerve compression. As a physiotherapist, her clinical practice has focused on the management of patients with upper extremity nerve related pathologies.

PROMOTIONS

Oleh Antonyshyn and Dimitri Anastakis were promoted to Full Professor.

Toni Zhong was promoted to Assistant Professor.

FACULTY AND RESIDENT GRANTS


Kate Saaks, Nancy McKee, Anne Agur and Paulo Koeberle: Research endeavour entitled, “Biochemical
and Cellular Changes: Injections Make a Difference within the Rat Gastrocnemius Muscle and Calcaneal Tendon Post Tenotomy. Do Traumeel Injections Make a Difference?,” funded by Canadian CAM Research Fund - Holistic Research Foundation of Canada for $4,858 in 2010.


Cho Pang: Research endeavour entitled, “Pharmacological Preconditioning and Post-Conditioning of Human Skeletal Muscle Against Hypoxia (Ischemia)/Reoxygenation (Reperfusion) Injury In Vitro.” Received Miscellaneous/Industrial funding for $105,000 from April 2010-March 31, 2011.

Greg Borschel and Tessa Gordon: Research endeavour entitled, “Nerve Research Centre at the Hospital for Sick Children in Toronto,” funded by Canada Foundation for Innovation, Leaders Opportunity Fund 26497 for $649,322 from July 2010-August 2015.

Greg Borschel, Alex Bilbily, Matthew Wood and Tessa Gordon: Research endeavour entitled, “Use of a Tissue Engineered Nerve Graft to Improve Nerve Regeneration.” Received Comprehensive Research Experience for Medical Students (CREMS) funding for $2,750 from 2010-2010.

Greg Borschel, Daniel Ennis, Matthew Wood and Tessa Gordon: Research endeavour entitled, “Use of Microspheres to Enhance Neuromuscular Junction Formation Following Nerve Injury.” Received Comprehensive Research Experience for Medical Students (CREMS), Summer Program 2010 funding for $2750 from 2010-2010.

Tessa Gordon and Kelvin Jones: Research endeavour entitled, “Exercise Using Neuromuscular Electrical Stimulation Slows the Progression of ALS in the SOD1 Mouse.” Received an ALS Operating Bernice Ramsey Discovery Grant for $50,000 from 2010-2011.

Kelvin Jones and Tessa Gordon: Research endeavour entitled, “Promoting Protection of Functionality Intact Motor Units in Amyotrophic Lateral Sclerosis (ALS).” Receiving funding for $146,784 from 2010-2015.

Marc Jeschke: Research endeavour entitled, “Characterization of Hepatic Dysfunction Post-Burn.” Received a CFI funded grant for $1,000,000.


RESCENTS HONOURS/AWARDS/ POSITIONS HELD

Siba Haykal: Enrolled in the PhD Program at the Institute of Medical Science. CIHR Training Program in Regenerative Medicine Scholarship.

Siba Haykal: Awarded the 2011 Vanier Canada Graduate Scholarship (Vanier CGS) which was created to attract and retain world-class doctoral students and to brand Canada as a global centre of excellence in research and higher learning. It is worth $50,000 per year for three years.

Siba Haykal: Awarded the Postgraduate Research Award (PGME) for her project entitled, “Determining the Immunogenicity of Decellularized Tracheal Allografts.” It is worth $9,990.

Siba Haykal: Best Basic Science Paper Award 2010-2011 for “Evaluating the Extracellular Matrix Components of Decellularized Tracheal Allografts for Airway Transplantation.”

Siba Haykal: Received third place at the Gallie-Bateman competition for 2010-2011 for “Evaluating the Extracellular Matrix Components of Decellularized Tracheal Allografts for Airway Transplantation.”

Kristen Davidge: Best Clinical Paper Award for “Qualitative Assessment of Patient Experiences Following Sacrectomy and Reconstruction,” 2010-2011.

Karen Cross: Recipient of the Dr. Leo Mahoney Resident Teaching Award 2010-2011.

Karen Cross: Mentor Canada, Johnson and Johnson Medical Companies Prize for Best Clinical Paper Award 2010-2011 for “Multiphoton Imaging of Acute Thermally injured Tissue: A Preliminary Assessment of an Emerging Technology.”

Kunaal Jindal: Mentor Canada, Johnson and Johnson Medical Companies Prize for Best Clinical Paper Award 2010-2011 for “Results of Primary Orbital Fracture Repair: An Analysis of Morphological Outcomes.”

Infusion Rate on Postoperative Complications Following Microsurgical Breast Reconstruction,” co-supervised by Drs Toni Zhong and Stefan Hofer. This work was accepted for publication in Plastic and Reconstructive Surgery.

Taiba Al-Rasheed: Recipient of the Dr. R. Wilson Award 2011. This award was presented to Dr. Al-Rasheed on May 6, 2011 at the Gallicie Dinner and is given to surgical residents who are rated highly by undergraduate students as being outstanding teachers.

Taiba Al-Rasheed: Awarded The Educational Foundation of the CSPS 2011 funding towards the Operation Rainbow Mission to India from March 2–12, 2011 ($2,500).

FELLOWS HONOURS/AWARDS /POSITIONS HELD

Abdullah Kattan: Received the 2010 Lindsay Research Award presented at the 8th Annual Lindsay-Thomson Pediatric Plastic Surgery Symposium for “Does Active Range of Motion in Children with Obstetrical Brachial Plexus Palsy Diminish Over Time?”

Tatiana Cypel: Successfully defended her MSc thesis entitled, “In Vitro Assessment of Osteoblast Behaviour in Infants with Craniosynostosis.”

FACULTY HONOURS/AWARDS /POSITIONS HELD

Kyle Wanzel: Arnis Freiberg Faculty Teaching Excellence Award 2011.

Toni Zhong: William K. Lindsay Faculty Research Mentor Award 2011.

Toni Zhong: Conferred an M.H.S. degree in Clinical Epidemiology by the School of Public Health, Harvard University during this academic period and awarded with one of two Outstanding Paper Presentations by the American Society for Reconstructive Microsurgery (ASRM) at the 2011 Annual Meeting in Cancun, Mexico for the project entitled, “Peri-operative Fluid Considerations to Minimize Early Postoperative Complications in Free Flap Breast Reconstruction.” She will also take on the roles of Breast Reconstruction Fellowship Coordinator and Clinical Fellowship Coordinator in the Division as of July 1, 2011.

Dr. Melinda Musgrave: Donald J. Currie Undergraduate Teaching Award 2011 from St. Michael’s Hospital.

Ralph Manktelow: In December 2011, Dr. Ralph Manktelow formally retired from his Associate position at St. Joseph’s Hospital. Dr. Manktelow was honoured by the International Federation of Societies for Surgery of the Hand (IFSSH) at their International Congress in Seoul in November 2010. He was named a pioneer of Hand Surgery. This is the highest international recognition available to a hand surgeon.

James Mahoney: Received 2nd place in the Young Investigators Award at the Society for Advanced Wound Care for his team’s work on lower extremity complications entitled, “A Needs Assessment of Intervention to Reduce the Risk of Wound Complications Following Saphenous Vein Harvesting.” The team consisted of Jiayi Hu, Laura Teague, Rosanne Nisenbaum, Lisa Bunn and James Mahoney.

Ron Zuker: Host Chair for the May 22–27, 2011 IPRAS meeting in Vancouver.


Dimitri Anastakis: The Wightman-Berris Academy Award for Individual Teaching Excellence, 2010-2011, Faculty of Medicine, University of Toronto. Dr. Anastakis is also the Surgeons as Educators Course Chair for the American College of Surgeons, Division of Education for the period November 2010 to Present. He was the Vice-President of the Associate for Surgical Education Executive Commission from Apr 23, 2010 - Mar 22, 2011 and is the incumbent President elect.

VISITING PROFESSORS

2011 Hoyle Campbell Visiting Professor
This year’s Hoyle Campbell Visiting Professor was Dr. Joseph E. Losee. Dr. Losee is a Professor of Surgery and Pediatrics in the Division of Plastic and Reconstructive Surgery at the University of Pittsburgh Medical Center. He has been the Program Director for the Residency Training Program in Plastic Surgery for nearly a decade. He is the Chief of the Division of Pediatric Plastic Surgery at Children’s Hospital of Pittsburgh of UPMC, where he is also the Director of the interdisciplinary Pittsburgh Cleft-Craniofacial Center. As well, he is the Program Director for the Pediatric Plastic and Craniofacial Surgery Fellowship. Dr. Losee serves on the Board of Directors of four national societies in Academic Plastic Surgery, including the American Society of Plastic Surgery and the Association of Academic Chairmen in Plastic Surgery. He edited, “Comprehensive Cleft Care,” the authoritative text on Cleft Surgery and authored over 70 peer-reviewed articles and 20 book chapters. His basic science research is focused on bone and suture regulation, as well as skull defects in infants.

Recently, Dr. Losee assembled a team and received University of Pittsburgh IRB approval for Face Transplantation. As well, he has become the PI of the Hand Transplantation Program at UPMC. Visiting Professor events were held on Thursday, February 17th, for the Visiting Professor and Senior Residents only. Friday, February 18th 2011 was dedicated to the Annual Division of Plastic and Reconstructive Surgery Research Day for all faculty, residents, fellows and alumni at the St. Andrew’s Club and Conference Centre and was sponsored by our various corporate partners.

9th Annual R.T. Manktelow Hand and Microsurgery Lectureship
This year’s Ralph T. Manktelow Hand Surgery Day was held on October 15, 2010. This year’s Visiting Professor was Professor Steven Hovius, Chief of the Division of Plastic and Reconstructive Surgery, Erasmum MC, Rotterdam, the Netherlands. Dr. Hovius’ keynote address was entitled, “Things I Used To Do (Reflections on Treatment of Hands).” Organizers were Dr. Linda Dvali and Dr. Stefan Hofer.
3rd Advanced Craniomaxillofacial Conference
The 3rd Advanced Craniomaxillofacial Conference was held on October 29th and 30, 2010 and was jointly chaired by Drs. Oleh Antonyshyn and Chris Forrest. This unique two-day event attracted over 100 registrants and featured live craniomaxillofacial surgery from Sunnybrook Health Science Centre and The Hospital for Sick Children performed by Plastic Surgery, Oral-Maxillofacial Surgery, Ophthalmology and Head and Neck Otolaryngologists. For the first time, live surgery was streamed over the internet and attracted the attention of over 400 additional registrants from all across the globe.

7th Annual Lindsay-Thomson Symposium in Paediatric Plastic Surgery
7th Annual Lindsay-Thomson Symposium in Paediatric Plastic Surgery was held on November 4, 2010. Dr. Bryan Sommerlad was the 2010 Vale Visiting Professor from Great Ormond Street Hospital in London and is world renowned for his cleft work. He was the invited guest speaker at the 2010 Lindsay Thomson Pediatric Plastic Surgery Symposium and spoke on “Clefts: A Universal Challenge”.

Surgical Services Grand Rounds for Ethics Week
Surgical Services Grand Rounds for Ethics Week was held at the Hospital for Sick Children on November 12th, 2010. Dr. Maria Siemionow from the Cleveland Clinic was the visiting Guest Lecturer. She was able to share her extensive experience with composite tissue allotransplantation and present the first case of near-total facial transplant that she performed at the Cleveland Clinic in 2008.

Continuing Medical Education
11th Annual Toronto Breast Symposium
The 11th Annual Toronto Breast Symposium was held on April 14, 2011 at the Sutton Place Hotel and welcomed Visiting Professors: Dr. Fritz E. Barton, Jr. of Dallas, Texas, Dr. Steven Fagien of Boca Raton, Florida and Dr. Constantino G. Mendieta of Coconut Grove, Florida. This symposium was chaired by Dr. Mitch Brown and co-chaired by Drs. Brett Beber and Kyle Wanzel.

41st Annual Aesthetic Plastic Surgery Symposium
The 41st Annual Aesthetic Plastic Surgery Symposium was held from April 15th - 16, 2011. Visiting Professors included: Dr. Steven Fagien, Boca Raton, Florida as the University of Toronto Visiting Professor; Dr. Fritz E. Barton Jr., Dallas, Texas as the Walter J. Peters Lecturer; and Dr. Constantino G. Mendieta, Coconut Grove, Florida as the W.R.N. Lindsay Visiting Professor. Both symposia were well attended and the quality of the lectures was outstanding. This symposium was co-chaired by Dr. Frank Lista and Dr. Tom Bell.

2nd Annual Division of Plastic and Reconstructive Surgery Research Day
2nd Annual Division of Plastic and Reconstructive Surgery Research Day was held on February 18, 2011 at the St. Andrew’s Club and Conference Centre. This mini-symposium was well attended with 80 attendees which included faculty, residents, fellows and alumni. For the first time this year, the annual Research Day was CEPD accredited. What was most notable this year during the Research Day was the evaluative process from supervisors of the projects, the compilation of feedback from the visiting professor and two judges, and the fact that 75% of the resident presenters received recognition awards for their high caliber research.

DIVISION FIRSTS
First Biannual Pediatric Upper Extremity Symposium
The first Biannual Pediatric Upper Extremity Symposium was held on October 14, 2010. Professor Steven Hovius, Chief of the Division of Plastic and Reconstructive Surgery, Erasmus MC, Rotterdam, The Netherlands, was the inaugural invited lecturer. The event was the first of its kind and was a true multidisciplinary meeting with 80 registrants from the field of plastic surgery, orthopedic surgery, occupational therapy, physiotherapy and interventional radiology from the academic centers in Ontario with an interest in the pediatric upper extremity. This event was held at the Arts and Letters Club on Elm Street in Toronto. The course co-ordinators were Dr. Christopher Forrest and Dr. Stefan Hofer.

Plastic Surgery School
Plastic Surgery School was implemented in September 2010 as the Division’s first Academic Half Day for the Senior Residents. Academic sessions are considered mandatory protected time for the residents. Most of these sessions are designed for senior residents, however some of the sessions are designed for both senior and junior residents. Plastic Surgery school takes place on Mondays from 8:00-11:00 a.m. and includes Resident Seminars, Ethic sessions, Surgical Skills sessions, and CanMEDS seminars/workshops. Each of these sessions, as well as all academic activities, have been formally evaluated, with feedback sent directly to the facilitators to use to create change where necessary as it relates to improved teaching methods.

CanMEDS Workshop
Several faculty have assigned roles for implementing and incorporating the teaching of each of the seven CanMEDS roles. Seminars/lectures/assignments have been implemented into the training program for each of these roles. Dr. Melinda Musgrave organized and executed an exceptionally unique two-part workshop. The first part was an all day workshop held on November 8, 2010 which entailed completing an online survey entitled, “Insights Evaluator” prior to the start of this workshop. At the outset of this workshop, senior residents took on assigned projects and a dinner presentation followed during Part II of the workshop scheduled last April 6, 2011, with faculty in attendance. All papers presented were then submitted for publication.
Graduation Gala Event
The combined celebration of 90 Years of Plastic Surgery in Toronto was one of the highlights of the past year, and the Grand Banking Ballroom of One King West Hotel was the venue of this Division Graduation Gala Event held on June 18, 2011.

IAMGOLD & AMREF Project
The Division of Plastic and Reconstructive Surgery, with a major donation from IAMGOLD Corporation, began a project in East Africa to evaluate the need for reconstructive surgery in the region. The project is in direct partnership with the African Medical Research and Foundation (AMREF) based in Nairobi, Kenya. Dr. Leila Kasrai is leading the project in collaboration with Dr. Shahla Yekta, a global health researcher and co-founder of Mind the Health Gap.

Royal College Fellowships
Amer Al-Kudmani successfully passed his RCPSC fellowship examination.
Mary-Helen Mahoney successfully passed her RCPSC fellowship examination.
Karen Wong successfully passed her RCPSC fellowship examination.

The Division of Plastic and Reconstructive Surgery at the University of Toronto remains a powerhouse of accomplishment in research, education and clinical service. Thanks to past plastic surgery leadership and faculty, our division has been positioned favorably. With 47 faculty members, the Division of Plastic and Reconstructive Surgery is one of the largest academic plastic surgery centres in North America.
The academic year 2010-2011 saw continued growth
with numerous recruitments and transitions for our
Division. It continues to have the largest clinical
activity of any thoracic program in Canada. These
sites include Toronto General Hospital (TGH) and the
community hospitals, St. Joseph’s Hospital, Toronto
East General Hospital and, new in 2011, Trillium/
Credit Valley Thoracic program in Mississauga (Drs.
Jones and Behzadi). St. Joseph’s Hospital in Toronto
recruited Dr. Michael Ko who graduated last year
from our training program. Dr. Ko has replaced Dr.
Yaron Shargall who moved to St. Joseph’s Hamilton.
In Hamilton, the recruitment of Dr. Shargall will mark
the beginning of an important collaboration between
the University of Toronto, Division of Thoracic Surgery,
and its counterpart at McMaster University. Dr. Shargall
was joined by Dr. Christian Finley, who also graduated
from our program last year. The Toronto East General
Hospital recruited Dr. Najib Saheedhine from SUNY at
Syracuse to our faculty. Dr. Safieddine is a graduate of
the University of Toronto program and completed a
fellowship in Minimally Invasive Thoracic Surgery in
Los Angeles with Rob McKenna. Finally, the Division
of Thoracic Surgery at Toronto General Hospital
(University Health Network) hired Dr. Marcelo Cypel
after an international search for a Surgeon-Scientist with
research and clinical interests in lung transplantation
and extra-corporeal life support. Dr. Cypel completed
general surgery and thoracic surgery training in Brazil
before coming to Toronto, where he completed his MSc
working on Ex Vivo Lung Perfusion under Dr. Shaf
Keshavjee. He also finished further fellowship training
at TGH in thoracic surgery and lung transplantation.
The American Association for Thoracic Surgery awarded
Dr. Cypel with the prestigious Michael DeBakey
Research Scholarship as the most promising young
faculty member in North America. Effective 2011-
12, Drs. Robert Zeldin and Andrew Pierre will both
assume their new academic rank of Associate Professor,
a promotion acknowledging their contributions to
education.

EDUCATION
Dr. Sameena Uddin completed her training successfully
this year and has taken a clinical position in
Mississauga. Fellows graduating from our program
included Dr. Masaki Anraku, who is now Assistant
Professor at Keio University in Japan; Dr. Masaaki
Sato, who has joined the University of Kyoto, to extend
our long-term collaboration with this important group.
Both Dr. Anraku and Dr. Sato trained in Toronto for
many years, gaining experience in advanced laboratory
research, thoracic surgery, and lung transplantation.
Dr. Eero Sihvo returned to his position as Deputy-Chief,
Thoracic Surgery, in Finland after training here in
thoracic surgery and lung transplantation.
Dr. Isabelle Schmitt-Opitz returned to her faculty
position at the University of Zurich in Switzerland
following her specialization training in mesothelioma
and surgery for chronic thromboembolic pulmonary
hypertension. Dr. Gustavo Fortunato returned to his
faculty position in Brasil after completing training in
lung transplantation. Dr. Nona Zeitlin is back in her
faculty position in Israel after spending time with
us training in both lab research and clinical thoracic
surgery.

After more than 10 years of stewardship, Dr. Gail
Darling passed the reins of the Thoracic Surgery
Residency Program Directorship to Dr. Andrew Pierre
while Dr. Maurice Blitz has assumed the important
role of Associate Director, Undergraduate Education
for Integrated Medical Education. Dr. Sameena Uddin
earned the FG Pearson Award for Best Resident/Fellow
Teacher. On the other hand, Dr. Andrew Pierre received
the RJ Ginsberg Award for Best Postgraduate Teacher.
The GE Darling Award for Excellence in Under-graduate
Teaching went also to Dr. Andrew Pierre. The 7th
Annual Pearson Day, high-lighting the breadth of clinical
and basic science research activity in the division, was
a tremendous success with Dr. Valerie Rusch, Chief
of Thoracic Surgery at Memorial-Sloan Kettering, New
York as the Visiting Professor.

RESEARCH
During Pearson Day, Sarah Gilpin was recipient of
an award for Best Basic Science Paper for The role
of bone marrow-derived progenitor populations in lung
disease [supervisor, Dr. Thomas Waddell] and Marcelo
Cypel received an award for Best Clinical Research
Paper for his project entitled Results of ex-vivo perfusion
[supervisor, Dr. Shaf Keshavjee].

Overall, the clinical research activity of the Division
stays strong as it continues to be a major Canadian
contributor to multi-centre clinical trials and a
developer of several innovative trials, including neo-
adjuvant therapies for lung, mesothelial, and esophageal
cancers, and CT screening for mesothelioma and
recurrent lung cancer. The Latter Thoracic Research
Laboratories remains very successful with grant capture
and publications. Drs. Keshavjee, Liu, Waddell, de
Perrot, Hwang [Pathology], and Yasufuku work in areas
of lung injury and repair, tissue regeneration, lung
trans-plantation and thoracic oncology, especially image-
guided therapeutics and nanotechnology.

Major highlights for 2010-2011 include the Young
Investigator Award, from the American College of Chest
Physicians going to Dr. Takahiro Nakajima for his work on molecular assessment of lung cancer [supervisor, Dr. K Yasufuku]; the publication of our clinical trial of “Normothermic Ex vivo lung Perfusion in Clinical Lung Trans-plantation” in the New England Journal of Medicine [Cypel et al, NEJM, 364(15):1431-1440] and the presentation of our single center study comparing endobronchial ultrasound to cervical mediastinoscopy as the opening plenary paper at the 2011 American Association for Thoracic Surgery meeting [Yasufuku et al, JTCVS in press].
ACADEMIC PROMOTION

Dr. Ron Kodama was promoted to Professor and 
Drs. Lesley Carr, Tony Finelli, Kirk Lo, and Vasu Venkateswaran were promoted to Associate Professor.

HIGHLIGHTS

SickKids
Dr. Joao Pippi-Salle continued as the Site Chief of Urology at Sick Kids.

He was an invited speaker, surgeon, and visiting professor at many locations around the world. These included Germany, Bahrain, Israel, United States, and Canada.

Dr. Darius Bagli continued his basic research in bladder diseases with projects funded by the CIHR, PSI, Kidney Foundation, AUA Foundation, and the Society for Pediatric Urology. He is also supervising research fellowships with funding from the Society for Pediatric Urology and the AUA Foundation. He was also invited to lecture in Denmark, the USA, and Canada.

He continued as Deputy Chief of Surgery at Sick Kids and staff coordinator of Urology Resident Research.

Dr. Walid Farhat continued his work in tissue engineering with projects funded by The Sick Kids Foundation and the Dean’s Fund. He participated in projects funded by the Ontario Research Fund and Canadian Foundation for Innovation (Disruptive technologies in pediatric and fetal intervention) and the Center for Computer-Assisted Intervention and Innovation. He organized and directed the Fifth Annual North American Pediatric Fellows Laparoscopy Course. He was an invited speaker to Denmark, Canada, and the U.S.

Dr. Armando Lorenzo continued his work in Clinical Epidemiology and minimally invasive pediatric surgery. He continued his research work in projects funded by the Hospital for Sick Children Inaugural Innovation Fund, PSI, and the Medical Council of Canada.

He was an invited speaker in Denmark, Canada, and the U.S. He was selected to participate in the First European Association of Urology and Canadian Urological Association Academic Exchange with a tour of academic centres in Sweden, UK, Spain, Italy, and Austria.

Sick Kids fellow Dr. Bryce Weber with Drs. Lorenzo, Bagli, and Farhat won the Kelm Hjalmars Third Prize Clinical Poster at European Society of Pediatric Urology meeting in Denmark.

Mount Sinai Hospital
Dr. Ethan Grober continued his work on male infertility at Mount Sinai and Women’s College.

His research includes his projects in infertility and education with grants from PSI Foundation, Royal College of Physicians and Surgeons of Canada, MARS Innovation, CIHR, Canadian uro-Oncology Group, and the Association for Surgical Association.

He was an invited speaker in the U.S. and Canada.

Dr. Keith Jarvi, site Chief at MSH, continued the Male Infertility Program and as Director of the The Murray Koffler Urologic Wellness Centre (MKUWC). He was an invited speaker in the U.S. and Canada.

He continued with his work and research in Infertility with projects funded by the NIH, Ontario Institute for Cancer Research, CIHR, Canadian Uro-Oncology Group, MaRS Innovation, Canadian Cancer Society Research Institute, Institut Merieux, Canadian Uro-oncology Group, PSI, and with non-peer review grants from GSK and Pierre Fabre Medicaments.

Dr. Kirk Lo continued his basic research in infertility with a new multi-year grant funded by the National Institutes of Health and in projects funded by CIHR, MaRS Innovation, Canadian Cancer Society Research Institute, Canadian Uro-oncology Group, and PSI.

He organized the resident and fellow presentations for the Annual Robson Research Day. He was promoted to Associate Professor.

He was an invited speaker in the U.S. and Canada.

Dr. Alexandre Zlotta continued in his position as Associate Editor of European Urology, one of the premier journals in urology.

He was invited speaker and/or Visiting Professor to Spain, Greece, Belgium, Austria, Brazil, U.S., and Canada.

He continued his research with funding from Ontario Institute for Cancer Research, CIHR, Canadian Cancer Society Research Institute, Canadian Uro-oncology Group, and non-peer review funding from GSK and Pierre Fabre medicaments.

Sunnybrook
Dr. Lesley Carr continued her work as an investigator in an industry grant for the use of muscle stem cells in stress urinary incontinence as well as research in overactive bladder and interstitial cystitis with projects funded by Allergan, Astellas, and Pfizer. Dr. Carr was in charge of Journal Seminars for Urology residents.

She won the Michael Jewett Faculty Postgraduate Teaching Award.
She was promoted to Associate Professor.

**Dr. Sender Herschorn** continued as University Chair and Martin Barkin Chair in Urology.

He continued his clinical research in urinary incontinence, neurogenic bladder overactivity, and erectile dysfunction with projects funded by Allergan, Astellas, and Johnson and Johnson (Contura). He was an invited speaker and lecturer in Brazil, Morocco, U.S., and Canada.

He also directed the 18th annual U of T Urology Update.

He was elected Past-President of the Canadian Urological Association. He was the Scientific Chair and Co-Chair of the combined International Continence Society and International Urogynecologic Association Meeting held in Toronto in August 2010. He was Chair of the Committee on Prostatic Urethral Stenosis After Treatment for Prostate Cancer at the International Consultation on Urethral Stricture Disease in Morocco.

**Dr. Laurence Klotz** continued his research in Uro-oncology. He continued as Chair of the CURC and the World Uro-Oncology Federation, (WUOF), and the International Urological Research Society.

He continued his many peer-reviewed research projects as well as initiated new work in prostate cancer with funding from NCIC, Prostate Cancer Canada, CIHR, Ferring, Astra-Zeneca. He was guest speaker and visiting professor in China, UK, Switzerland, Austria, the U.S., and Canada.

He was Honorary Professor at Peking University and Guest Editor of Urologic Oncology.

**Dr. Ron Kodama** site Chief at Sunnybrook, organized the 8th Annual Resident Basic Science Course in February. He also directed the annual Urology Fair 2011.

He won the AW Bruce Faculty Undergraduate Teaching Award and was a committee member in the International Consultation on Urethral Stricture Disease in Morocco.

**Dr. Robert Nam** continued his work on his peer-reviewed projects and also received new grants. His funding is currently from NCIC and CIHR.

He was an invited speaker in Australia, and the U.S.

He was elected Vice-President of the medical staff at Sunnybrook.

**Dr. Vasundara Venkateswaran** was promoted Associate Professor. She continued her basic research in prostate cancer with funding from CIHR, Prostate Cancer Canada, Ferring, and AstraZeneca.

She won a Best Poster award at the Society for Urologic Oncology meeting in Washington, DC. Two of her graduate students, Avi Vandersluis and Natalie Venier won CIHR Masters Awards.

**UHN - TGH and PMH**

**Dr. Neil Fleshner** continued as site Chief at the UHN. He continued his clinical and basic research in prostate cancer with many major peer-reviewed grants from CIHR, OICR, CPCRF, Canadian Cancer Society Research institute, Prostate Cancer Canada Research Foundation, Prostate Cancer Research Foundation, NIH, and Pfizer, Merck-Frosst, and GSK.

He was an invited speaker at meetings in Canada and France. He was on the Scientific Committee of the 4th World Congress on Controversies in Urology in Paris, France.

He continued as the holder of the Love Chair in Prostate Cancer Prevention at the Princess Margaret Hospital.

**Dr. Michael Jewett** continued his clinical and research work in many peer-reviewed funded projects in Uro-Oncology. The Funding is from CIHR, OICR, Princess Margaret Hospital Foundation, Kidney Foundation, NSERC, Pfizer, and Merck-Frosst.

He continued as the Wyeth/CIHR Clinical Research Chair in Oncology.

He was an invited speaker and/or visiting professor in Germany, the U.S. and Canada.

He won the Faculty Postgraduate Teaching Award (Surgical) and major awards that included the AUA Distinguished Contribution Award, the CUA Award, and the Society of Urologic Oncology Medal for 2011.

**Dr. Michael Robinette** continued as the major individual contributing to the Multi-organ Transplant Program at the UHN, specifically in kidney transplants.

**Dr. John Trachtenberg** continued his active research into novel therapies for prostate cancer with grants from CIHR, PMH Foundation, Prostate Cancer Canada, NCIC, and Merck-Frosst. He was an invited speaker in Austria, the U.S., and Canada.

He co-chaired the 20th Annual Issues and Controversies in Whistler, BC.

**Dr. Tony Finelli** continued his funded research projects in renal cancer and in men with negative biopsies for prostate cancer. Funding is from CIHR, Canadian Cancer Society Research Institute, Merck-Frosst, and Pfizer.

He was an invited speaker in Russia, France, and Canada.

He was promoted to Associate Professor and won the Faculty Postgraduate Teaching Award (Clinical).

**Dr. Andrew Matthew**, clinical psychologist, continued his work in outcomes after prostate cancer therapy. The PMH Foundation funds his projects. He was an invited speaker in the region of Toronto.

**UHN - TWH**

**Dr. Magdy Hassouna** continued his basic and clinical work in neurourology and neuromodulation. Research funding was received from the Ontario Neurotrauma Foundation, and CIHR.

He was an invited speaker in Brazil, Saudi Arabia, UK, U.S. and Canada.

**Dr. Sidney Radomski** continued his role as the Urology Co-ordinator in the Surgical Skills Lab and director of the weekly postgraduate urology resident seminars. He continued his work in incontinence, overactive bladder and erectile dysfunction. Grants funding is from Allergan.

He continued as the Assessor of Educational Performance for the Department of Surgery.
St. Michael’s Hospital

Dr. John Honey, site Chief at St. Michael’s, continued his work as Director of Endourology and the Stone Treatment Centre at SMH.

He continued his clinical research studies in lithotripsy. Grant funding was from Ontario AFP Innovations Fund, Sanofi-Aventis, and LMA Urology USA. He was course director at a hands-on course at the American Urological Association (AUA) Meeting in San Francisco. He was guest speaker in the U.S.

Dr. Kenneth Pace continued his work in clinical epidemiology, stone disease, and minimally invasive surgery. Grant funding is from Ontario AFP Innovations Fund, Sanofi-Aventis, and LMA Urology USA.

He continued as the Fellowship Coordinator for the Division of Urology.

He continued in the American Urological Association Leadership Program. He won Best Poster awards at the European Association of Urology Meeting in Vienna, the Northeast Section AUA Meeting in Pittsburgh, the CUA Meeting in Montreal, and University of Toronto Health Policy, Management and Evaluation Annual Research Day and best endourology presentation at the CUA in Montreal.

He won the Faculty Postgraduate Teaching Award (Clinical) and was promoted to Associate Professor.

Dr. Robert Stewart continued as Urology Residency Program Director and Director of Undergraduate Surgery Education at SMH. He continued as the principal urologist in the kidney transplantation program.

He won the Faculty Postgraduate Teaching Award (Surgical).

ACADEMIC EVENTS & AWARDS

The Annual Charles J. Robson Research Day was held on April 7. The Visiting Professor was Dr. Larry Goldenberg, Chief of the Department of Urological Sciences at the University of British Columbia in Vancouver.

There were 42 presentations. Resident Clinical winner was Dr. Raj Satkunasivam; Resident Basic/Translational Dr. Sean Skeldon; Fellow Clinical winner was Dr. Trustin Domes; Fellow Basic/Translational winner was Dr. Alexandra Colquhoun. Honorable Mention Dr. Andrei Drabovich.

The Patrick Harty Award for Excellence in Patient Care was awarded to Dr. Elias Wehbi.

The Resident Undergraduate Teaching Award went to Dr. Steve Kim and the Fellowship teaching awards went to Drs. Michael Ordon and Bryce Weber.

The PGY-5s Drs. Dean Elterman, James Wong, Paul Toren, and Elias Wehbi, successfully completed their Royal College Examinations.

VISITING PROFESSORS

Guests this year were Drs. William Steers from the University of Virginia in Charlottesville VA; Gamal Ghoniem from the Cleveland Clinic, Florida; Manoj Monga from the University of Minnesota in Minneapolis MN; Jeffrey Caddedu from the University of Texas Southwestern Medical School in Dallas TX; Gerald Andriole from Washington University in St. Louis MO; Misop Han from John Hopkins in Baltimore MD; Andrew Stephenson from the Cleveland Clinic, Cleveland OH; Marshall Scott Lucia from the University of Colorado in Denver CO; Wayne Hellstrom from Tulane University in New Orleans LA; and Gerald Brock from the University of Western Ontario in London ON.
INTRODUCTION
Dr. Lindsay was re-appointed for a second term as Chair of the Division of Vascular Surgery following an external review. Dr. Tanner was appointed as the Chair of the Negotiating committee for the OMA’s next contract with the Ministry of Health and Long Term Care.

The Division is preparing for the start of the Royal College direct five year entry program with the first recruits due to begin in July 2012. A Divisional committee met to search for an new Program Director after Dr Lindsay completed a decade in this job. Dr. George Oreopoulos was appointed Program Director effective July 1, 2011.

Dr. Ameli the Division’s most senior member began a retirement plan that saw the recruitment of Dr. Tony Moloney to the Division at St Michael’s Hospital.

At Sunnybrook the first recipient of the Maggisano Chair was chosen to be Dr. Robert Maggisano.

At UHN Dr. Roche-Nagle coordinated membership in the Vascular Study Group of New England and the successful entry of data into what has become the Society of Vascular Surgery’s Patient Safety Organization. UHN is the first site outside of the USA to join and participate in submission of data for analysis of quality improvement.

ADMINISTRATION
Dr. Johnston completed his term as R. Fraser Elliott Chair in Vascular Surgery and a new chair will be named after a search is conducted. Dr Johnston remains the co-editor of the 7th edition of Rutherford’s Vascular Surgery. He is the Chair of the SVS Document Oversight Committee. Dr. Lindsay completed his term on the SVS Documents Oversight Committee. Dr. Rubin continues as the Chairman and CEO of the MSH /UHN Academic Medical Organization, and continues to represent all AHSC AFP Governance Chairs in Ontario on the Academic Medicine Steering Committee. Dr. Rubin in Program Medical Director of the Peter Munk Cardiac Centre and is Co-Chair of Ontario Expert Panel on Multiple Sclerosis. He completed a 4 year term as Chair of the SVS Audit Committee, a 5 year term as a member of the University of Toronto Department of Surgery Finance Committee and a 9 year term as Head of the Division of Vascular Surgery at UHN. Dr. Tanner was appointed as the Chair of the Negotiating Committee for the OMA’s next contract with the Ministry of Health and Long Term Care. Dr. Andrew Dueck is Head of the Vascular Surgery Tariff Committee at the OMA and co-organized the VITO and Toronto EndoVascular Symposium with Dr. Wooster in 2011. Dr. Dueck was the Program Chair for the 2010 CSVS meeting in Vancouver and continues on the Education Committee. Dr. Lossing was Appointed Director of Telemetry at St. Michael’s Hospital and is a member of the executive committee and the Secretary of the Medical Staff association at St Michael’s. He also began the University Tele-EVAR Rounds.

Dr. Lindsay with colleagues from across the province and Kori Kingsbury, the CEO of the Cardiac Care Network, developed a business case for the Ontario Ministry of Health and Long Term Care for a provincial Vascular Surgery quality of care strategy. This was accepted and Drs. Dueck and Lindsay are members of the Cardiac Care Network’s Vascular Surgery working group along with Dr. Johnston who is the co-chair of the committee with Kori Kingsbury. The aim is to develop a provincial strategy for Vascular Surgery. This initiative is to develop and implement improvements to the quality and accessibility of care for vascular conditions across the province with the ability to influence with adequate hospital funding to ensure best practice.

Dr. Papia continues his work in patient safety with multiple initiatives at Sunnybrook and beyond with presentations to multiple provincial sites of the Ontario Hospital Association across the province. He has taken on the position of National Faculty Lead – Surgical Safety Checklist Intervention, Safer Healthcare Now and the Canadian Patient Safety Institute.

EDUCATION
Dr. Oreopoulos has successfully completed an Interventional Radiology Fellowship within the UHN IR Division at University of Toronto and was formally cross appointed to the Division of Interventional Radiology at University Health Network and the Department of Medical Imaging at the University of Toronto. Drs. Cardella, Ben Musa and Huseynova all completed their Royal College fellowships in June 2011. Dr Cleanthis completed his fellowship in Vascular Surgery in September and accepted a Consultant post in London, England.

RESEARCH
Dr. Campbell with his co-investigators Drs. Donnelly and Muradali were awarded Innovation Funding for a project on fistula maturation. Dr. Rubin continues to hold three independent basic science operating grants from CIHR. In addition, he completed a 4 year term as Chair of the Grant Review Panel for the Foundation for Accelerated Vascular Research, San Francisco. Dr. Wooster and Dr. Dueck are recipients of a two year Royal College of Physicians and Surgeons of Canada Award assessing health competency in practice with Elizabeth Wooster. Dr. Tse was awarded Ontario Centers
of Excellence funding for a project of in situ fenestration of EVAR grafts using Radiofrequency.

AWARDS

Dr. Lindsay was awarded the Ross Fleming Surgical Educator Award at the University Health Network in May 2011.

Dr. Wooster was awarded best research paper at the Canadian Association of Continuing Health Education.

Dr. Roche Nagle was the recipient of the John L. Provan Educational Award.

EXTERNAL VISITS AND VISITORS

The Division was extremely active at the Canadian Society for Vascular Surgery meeting presenting eight papers (32%) at the September 2010 meeting. Drs Johnston and Lindsay were active in the 2011 Winnipeg Vascular and Endovascular symposium. Dr. Wooster presented at the 2011 Society for Vascular Surgery annual meeting and well as numerous other national and international meetings. Dr. Rubin presented at the European Cardiology Congress in Stockholm, and was a visiting Professor at Goethe University, Frankfurt. Dr. Papia gave invited Grand Rounds at the Cleveland Clinic on the use of Checklists and Bundles to improve healthcare.
Highlighting the past academic year for the Surgical Alumni Association (SSA) was a major event entitled “SHARP MINDS – SKILLED HANDS,” marking the 25th anniversary of the Surgeon Scientist Program (SSP) and celebrated with a special dinner. The event coincided with the Department of Surgery’s Gallie Day. The evening was a resounding success. It featured a video that will be used in future presentations of the SSP, sold 54 tables, attended by 435 guests, and generated net profits of over $60,000 for the SSP. At this event, Dr. Richard Reznick, Chair of the Department, announced that he was leaving his post at UofT to become the Dean of the School of Medicine, Faculty of Health Sciences at Queen’s University in Kingston. Then the period between his resignation, the Surgical Alumni Association entered into a quiet period as the search process began for his successor.

Spring of 2011 ushered in with the announcement of Dr. James T. Rutka as the next Department of Surgery Chair. Liaison with Dr. Rutka and staff resumed and an active year has evolved, centered around the emerging new strategic plan for the Department of Surgery.

The Association intends, once again, to support the Department Chairman in rolling out this plan and will be actively involved in planning and participating in an event, based on this, by early Spring 2012.

In the meantime, the Surgical Alumni Database has been integrated with the Alumni Database of the Faculty of Medicine. Our mailing lists are ready and the first meeting of the SAA with the new Department Chair has been scheduled.

Your Surgical Alumni Association is, once again, prepared to provide strong support to the Department and its new Chair, Dr. James Rutka.
Office of International Surgery
Andrew Howard, Director

OVERVIEW
The Office of International Surgery is founded on the belief that improving access to surgical care in low income countries has a great potential to reduce the global burden of disease. The role of a University Department of Surgery within the global health field should be a scholarly role, emphasizing education and research. Provision of clinical care supports these activities within some of our projects.

ONGOING PROJECTS

Ptolemy Library Project
Through a partnership with the University of Toronto Libraries, the Office of International Surgery continues to provide free full text access to the University of Toronto Library to surgeons and surgical trainees in low income countries. Our librarians, Sandra Kendall at Sidney Liswood Library, and Warren Holder and Sian Mickle at Robarts, have trained clinicians and librarians in Ethiopia and the scope of the project will be expanded to cover the needs of the Toronto Addis Ababa Academic Collaboration (TAAAC). This collaboration is currently under review for a major CIDA grant.

Surgery in Africa Reviews
We continue to publish narrative reviews on a broad range of surgical topics focusing on clinically relevant aspects of surgery in resource constrained settings. Contact andrew.howard@sickkids.ca if you are interested in writing a review. Reviews, dating back to 2005, are online at www.ptolemy.ca/members. A plan for the coming year is to put on a series on surgical critical care and trauma. The College of Surgeons of East, Central, and Southern Africa now uses our reviews as a mandatory component of their residency curriculum.

Bethune Round Table on International Surgery
This annual Canadian academic meeting is one of the first to focus on surgical aspects of global health. Montreal, in partnership with the Canadian Network for International Surgery www.cnis.ca was the site of the 2011 meeting. In 2012, the University of Toronto will host the meeting on May 25 to 27th. Canadian surgeons and doctors from across the country attend the event to share information on what works in all the different avenues of Canadian involvement in global health and surgery.

Toronto Addis Ababa Academic Collaboration
Many departments at U of T are linking with AAU to strengthen the teaching and academic collaboration at both institutions. CIDA is currently reviewing the project for future substantial funding.

Global Health Education Institute
The department of surgery is a participant, in conjunction with anaesthesia and obstetrics, in teaching residents from across U of T who are taking the Global Health Education Institute course directed by Dr. Barry Pakes, and emergentologist from Sunnybrook. A skills lab sessions has been added to the 2011 course, dates are October 20th through October 22, 2011.

Bethune Scholarship
Dr. Maryse Bouchard of orthopaedics received the inaugural Bethune Scholarship in International Surgery and has completed and defended a Master's thesis on access to orthopaedic implants in Uganda. This initiative, led by Mme. Adrienne Clarkson, aims to promote training opportunities for our residents interested in pursuing international surgery in a scholarly fashion throughout their careers.

Chair in International Surgery
Dr. Mark Bernstein is the inaugural Greg-Wilkins-Barrick Chair in International Surgery. This chair, stems from a gift to the Toronto General and Western Hospital Foundation in memory of Greg Wilkins, late CEO of Barrick Gold Corporation. Dr. Bernstein’s international work has spanned many countries, with a particular focus on Africa and Indonesia. He has taught many novel and sustainable neurosurgical techniques including craniotomy under local anaesthesia and is responsible for the first ever such procedure in several countries. He has taken residents, nurses and other colleagues with him on these missions and brought back fellows and trainees in a spirit of bilateral exchange and cooperation. Dr. Bernstein will add to this work and expand to other geographical areas including Latin America.
The Hospital For Sick Children

James Wright, Surgeon-in-Chief / Robert B. Salter Chair in Surgical Research

HEADS OF DIVISION

Dr. G. Van Arsdell  Cardiac Surgery
Dr. J. Langer  General Surgery
Dr. J.M. Drake  Neurosurgery
Dr. B. Alman  Orthopaedics
Dr. C. Forrest  Plastic and Reconstructive Surgery
Dr. J. Pippi Salle  Urology

The Department of Surgery at The Hospital for Sick Children has had a productive year. Dr. James Wright continues to lead the Canadian Paediatric Surgical Wait Time Project. The project, funded by Health Canada until March 31, 2011, measures wait times for children’s surgery in 11 surgical subspecialties. In June 2011, the project contributed high-level findings to the Wait Time Alliance ‘Report Card on Wait Times’ for the second year and reported in the CMAJ their finding that 27% of children exceed nationally developed access targets. The project currently focuses on generating benchmark reports and supporting knowledge sharing for its participating hospitals, while moving towards a self-sustaining model.

Targeted funding from the Ministry of Health and Long Term Care continues to make a substantial impact on wait time for surgery at SickKids. While waits are still not ideal, the percentage of children who exceed nationally developed access targets has dropped from a high of 47% in 2007 to 15% in 2011. None of the children waiting for cardiac surgery and children requiring dental treatment under anesthesia exceeded their access targets.

NEW STAFF

New recruits include Dr. Simon Kelley of the Division of Orthopaedics, Dr. Osami Honjo of the Division of Cardiac Surgery, and Dr. Martin Koyle, former Division Head at Seattle Children’s, of the Division of Urology.

DEPARTURES

Dr. Peter Kim of the Division of General and Thoracic Surgery departed to become Vice-President of the Sheikh Zayed Institute for Pediatric Surgical Innovation at the Children’s National Medical Center in Washington. Dr. Osman Al-Radi, Division of Cardiac Surgery, returned to his home country Saudi Arabia.

APPOINTMENTS & PROMOTIONS

Dr. Georges Azzie, Division of General and Thoracic Surgery, was promoted to Associate Professor. Dr. James Drake, Division of Neurosurgery, has been appointed as interim lead of the Centre for Image-Guided Innovation and Therapeutic Intervention (discussed more below). Dr. James Rutka, Division of Neurosurgery, was appointed Chair of the Department of Surgery for a five-year term commencing April 1, 2011. Dr. Kulkarni, Division of Neurosurgery, was selected as the new Residency Program Director. Dr. Kellie Leitch, Division of Orthopaedics, was elected MP for Simcoe-Grey and appointed as the Parliamentary Secretary to the Minister of Human Resources and Skills Development and to the Minister of Labour. Dr. Unni Narayanan, of the Division of Orthopaedics, was promoted to Associate Professor. Dr. Christopher Caldarone, Division of Cardiac Surgery, was promoted to Senior Associate Scientist by The SickKids’ Research Institute in July 2010. Dr. Osami Honjo, Division of Cardiac Surgery, was appointed Associate Scientist in the Physiology and Experimental Medicine Program by the SickKids’ Research Institute in June 2011.
DIVISION OF CARDIAC SURGERY

The Heart Centre (in which the division is a key participant) held a three-day symposium attended by over 200 individuals, many from around the world. The division co-hosted, with Division of Cardiology, this International Symposium which focused on the treatment of Hypoplastic Left Heart Syndrome. Division members were also key participants in American and overseas conferences including the American Heart Association Annual Meeting and the American Association for Thoracic Surgery Annual Meeting. SickKids’ cardiovascular surgeons hold one US patent US9232188B2 [April 12, 2011] for: Modulation of the integrin-linked kinase pathway to promote cardiac stem cell proliferation and self-renewal and eight external peer reviewed grants: three Heart and Stroke; two CIHR; one Children’s Heart Foundation; one Research Innovation Foundation and one Leducq Foundation. There were 28 peer reviewed publications.

DIVISION OF GENERAL AND THORACIC SURGERY

The Centre for Image-Guided Innovation and Therapeutic Intervention (CIGITI) (www.cigiti.com), originally established by a team headed by Dr. Peter Kim, continued to develop innovative technologies focused on paediatric and fetal applications in image-guided surgical intervention, simulation for educational applications, and miniaturized robotic surgery. With Dr. Kim leaving for the United States, CIGITI will be looking for a new director. In the meantime, Dr. Sharifa Himidan will continue in her role as Medical Director of the Centre. Dr. Priscilla Chiu continues her work as co-principle investigator on a $20 million CIRM-CSRC grant in support of novel treatments to target cancer stem cells. Dr. Jack Langer has continued to develop the SickKids Obesity Management Program (STOMP), which ultimately performs 10-15 bariatric surgical procedures per year. Dr. Langer not only sits on the provincial Bariatric Surgery Steering Committee, but is also the Director of the Canadian Association of Paediatric Surgeons and has been nominated as the next President-elect of that organization. Drs. Georges Azzie and Ted Gerstle established a pediatric simulator for teaching laparoscopic skills in neonatal patients, which is being validated at several major pediatric surgical meetings and will soon be adopted by pediatric surgical training programs world-wide. Drs. Azzie and Gerstle are involved in a number of important initiatives in Africa, developing training programs and surgical expertise. Dr. Azzie continues to develop an innovative tele-mentoring program teaching minimal access surgical skills to surgeons in Botswana. Dr. Gerstle is co-principal investigator on a grant from the Canadian International Development Agency (CIDA) which provides $420,000 over three years for healthcare leadership development in Tanzania and Ethiopia. Dr. Gerstle has also taken on the role of Surgical Director at the new Children’s Hospital in Qatar as part of the partnership with SickKids International. Dr. Paul Wales continues to advance the treatment of intestinal failure through the Group for Improvement of Intestinal Failure and Treatment (GIFT), and is involved in translational studies using a porcine model of short bowel syndrome in order to develop novel medical and surgical approaches to this problem. Dr. Annie Fecteau served as Chair of the American Pediatric Surgical Association Ethics committee. Members of the Division published 52 papers and hold eleven grants.

DIVISION OF NEUROSURGERY

It has been a very active year for the Division of Neurosurgery. The numerous accomplishments include appointments, promotions, visiting lecture invitations, 53 publications and much more. Dr. James Drake, Head of Neurosurgery and Senior Associate Scientist, Neurosciences & Mental Health, has been appointed as interim lead of the Centre for Image-Guided Innovation and Therapeutic Intervention (CIGITI) based at SickKids. He continues as an Executive Member and PI with the Hydrocephalus Clinical Research Network. He travelled the world as an invited speaker on many occasions and has published articles on an ongoing basis as noted in this report.

Dr. James Rutka was appointed as Chair of the Department of Surgery for a five-year term commencing April 1, 2011. This is a tremendous and historical achievement for our Division. He will be the first Department of Surgery Chair from Neurosurgery.

One of the highlights of the year was the American Association and Neurological Surgeons (AANS) meeting in Denver where Toronto shone under the presidency of Dr. Jim Rutka. Dr. Rutka gave a spectacular presidential address on discovery in neurosurgery. Toronto featured prominently in the various invited workshops, plenary sessions and presentations. He has become Past President of the AANS; Member of the Finance Committee; Strategic Planning Committee; the Van Wagenen Fellowship Committee and Neurosurgery PAC; Chair of the Nominating Committee.

James Rutka was elected to Fellowship in the Canadian Academy of Health Sciences (CAHS).

He too has travelled the world as an invited speaker and continues to publish articles on an ongoing basis.

Drs. Peter Dirks and Mike Ellis were awarded a grant from the Ontario Ministry of Health/Ontario Stroke System to support a pilot study of a prospective pediatric cerebrovascular disease database at the Hospital for Sick Children, Toronto. Dr. Dirks, as Keynote Speaker at the World Cancer Stem Cell Summit, spoke about ‘A stem cell view of brain cancer: Implications for developing new therapies’. Boston, MA, December 8, 2010. Invitations continue to pour in to present his work in various cities around the world. His work continues to be published and highlighted.

Dr. Abhaya Kulkarni was selected as the new Residency Program Director after a rigorous search.

He continues as Director of the Gamma Knife Program. He also has a large role as PI with the Hydrocephalus Clinical Research Network, working diligently to produce projects and reviews that will benefit patients throughout North America and the world. He continues to publish works in peer review publications.

Dr. Michael Taylor ranked #2 on the Toronto Star’s list of the biggest scientific discoveries of 2010. He was
instrumental in the completion and publication of a landmark study on the subject of Medulloblastoma in the Journal of Clinical Oncology. He continued to circle the globe as a guest speaker.

DIVISION OF ORTHOPAEDICS

Dr. Simon Kelley joined the Division of Orthopaedics in July 2010. His medical training was in the United Kingdom. He was the inaugural Trans Canada Pediatric Orthopaedic Fellow, pending six months in Montreal, Toronto and Vancouver. His area of expertise is in limb deformity. Dr. Kelley will also be undertaking research on the molecular mechanisms of skeletal differentiation, and will be completing a PhD as part of this work.

Dr. Ben Alman has been named the Interim Director of the Toronto Musculoskeletal Centre of the University of Toronto. This is an extra departmental unit focusing on interdisciplinary translation research. The centre will be developing a collaborative graduate program, a new mechanism for research funding and will help recruit new MSK researchers to Toronto.

Dr. Kellie Leitch was awarded the Order of Ontario for providing a national voice on Children’s Health.

Dr. James Wright was awarded the inaugural Sickkids’ President’s Award “for his outstanding leadership, commitment to high quality and performance, and dedication to improving access to surgical services for children across the country.”

The Division of Orthopaedics is continuing to build the Bone Health Centre. This centre focuses on the care of children with musculoskeletal conditions requiring multidisciplinary care, and in the development of collaborative research. The centre is on the verge of beginning its first clinical trial, using a cell therapy approach to disorders.

Members of the division continue their successful research efforts. The division boasts four faculty members who hold CIHR funding as Primary Investigators, making them the highest proportion of CIHR funded orthopaedic surgeons in any one division in the country. The division members jointly have presented over 50 talks worldwide, published over 55 peer-reviewed papers and secured funding for 10 new grant proposals during the past academic year.

DIVISION OF PLASTIC AND RECONSTRUCTIVE SURGERY

Dr. Ron Zucker was the Chair of the Organizing Committee for the 16th Congress of the International Confederation of Plastic, Reconstructive and Aesthetic Surgery that was held in Vancouver last May. This was a highly successful meeting with over 1700 registrants from all around the world with significant participation from all division members. Dr. Greg Borschel was successful in obtaining a three-year CIHR funding in a highly competitive competition investigating opportunities to improve peripheral nerve recovery after injury. Dr. Borschel also received funding from NEPS and CFI during the past academic year. The division organized two educational exchanges via the SickKids-Operation Smile program and had visits from two trainees from West Bengal and three trainees from Assam in India. The division hosted four CME events in 2010 including the Advanced Craniofacial Surgery Symposium, Pediatric Upper Extremity Symposium, the Lindsay-Thomson Pediatric Plastic Surgery Symposium and the Composite Tissue Allotransplantation Symposium. During the past academic year, division members published 18 papers, presented 25 scientific papers and participated in 36 invited lectures.

DIVISION OF UROLOGY

Dr. Joao L. Pippi Salle was appointed Herbie Doctor of the Year. He was an invited speaker at many locations around the world including Israel, Germany and the United Arab Emirates. Dr. Darius Bagli was awarded a Physicians’ Services Incorporated Foundation two-year grant in collaboration with Dr. Armando Lorenzo for $140,000 – E coli-induced alterations in the uroepithelial epigenome as a marker for UTI risk. He was also supervisor to Dr. Haddad for his Society for Pediatric Urology grant $37,000 on Role of Sex Steroids in Perioperative Management of Hypospadias initial human cell studies in Vitro. Karen Aitken defended and was awarded her PhD; Dr. Bagli was her supervisor through the Institute of Medical Sciences. In June 2010, Dr. Armando Lorenzo was granted outstanding reviewer for the Journal of Urology. In January 2011, Dr. Lorenzo was awarded a European Association of Urology Travel Scholarship which he participated in March 2011 for three weeks; countries visited were Italy, Sweden, England, Austria and Spain. In August 2010, Dr. Walid Farhat ran his 4th annual successful Pediatric Urology Laparoscopy course for Fellows at SickKids. In April 2011, Dr. Farhat was awarded third prize for a clinical poster at the European Society for Pediatric Urology on Impact of Biofeedback on Self-Esteem in Children with Voiding Dysfunction: A randomized controlled trial for which he was PI. Urology had 18 invited lectures nationally and internationally, over 15 published peer-reviewed papers and awarded three new grants from The Physicians’ Services Incorporated Foundation, American Urological Association, and the Society for Pediatric Urology.

EDUCATION

The Department of Surgery continues to have an active education program training 50 fellows and 93 residents originating from 31 countries worldwide.

RESEARCH

Of 40 surgeons, 21 have funded research programs. The Department is engaged in a wide variety of clinical and basic research supervising 17 research fellows, 23 Masters and 12 PhD students.
Division Of Cardiac Surgery

Dr. O. Al-Radi Assistant Professor  Dr. G.S. Van Arsdell Professor (Division Head)
Dr. C. Caldarone Professor  Dr. W.G. Williams Professor
Dr. J.G. Coles Professor  Dr. C. Wittnich Professor
Dr. O. Honjo Assistant Professor

PUBLICATIONS


**INVITED VISITS**


Caldarone CA: Congenital Cardiac Anesthesia Society, USA, March 2011. Invited Speaker: Ischemic Preconditioning: An interesting concept or a clinical reality?

Coles J: American Academy of Pediatrics, San Francisco, California, USA, October 2010. Invited Speaker: Recurrent pulmonary vein stenosis: Catheter intervention, surgery or transplant?

Coles J: International Society for Stem Cell Research, Toronto, Ontario, Canada, May 2011. One of 7 Presenter(s): ILK induces stress in mouse heart and promotes expansion of resident cardiac stem cells.

Honjo O: Hypoplastic Left Heart Syndrome and Other Functionally Univentricular Heart Disease Symposium. Toronto, Ontario, Canada, June 2011. When to attempt repair of the regurgitant tricuspid valve?


Van Arsdell GS: Tsinghua International Symposium on Advancement of Cardiovascular Surgery and Cardiology, Beijing, China, April 2011. Invited Lecturer/Presenter: Single or biventricular repair.

Wittnich C: Canadian Veterinary Medical Association (CVMA), Annual Meeting, Calgary, Alberta, Canada, August 2010. A Canadian veterinarian’s experience from hurricane Katrina.

Wittnich C: Canadian Veterinary Medical Association (CVMA), All Hazards Training CVR, Hull, Ontario, Canada, March 2011. Practical medical field facts for disaster response.

**RESEARCH AND INVESTIGATIONS**

A transatlantic network to define the mechanisms, mediators and clinical applications of remote ischemic preconditioning. Redington AR, Caldarone CA: Leducq Foundation. [$6,523,095 July 2010-June 2011]

Age-dependent vulnerability of developing brain to cardiopulmonary bypass-associated hypoperfusion and ischemia in neonates and infants undergoing congenital heart surgery. Honjo O: University of Toronto, Roscoe Reid Graham Scholarship in Surgical Science. [$75,000 2010-2013]


Assessment of heavy metal toxins in Canadian marine mammals. Wittnich C: Oceanographic Environmental Research Society (OERS) Grant. [$5,000 2010–2011]


Development and validation of a pediatric risk evaluative clinical index in the surgical environment (PRECISE) to predict adverse clinical outcomes after pediatric cardiac surgery. Caldarone, C: Heart and Stroke Foundation. (Junior Personnel Award for Amusha Jegatheeswaran.) [$150,000 July 2011–June 2011]

Emerging team in pulmonary veins stenosis. Coles J: HSC Labatt Family Heart Centre Innovation Fund. [LFHC Catalyst Award.] [$32,000 July 2010-July 2011]


Selective generation of cardiac progenitor cells and cardiomyocytes from mouse embryonic stem cells. Van Arsdell GS, Riazi A: Heart and Stroke Foundation. [$140,000 July 2010-June 2011]


## Division Of General Surgery

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<tr>
<th>Name</th>
<th>Position</th>
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<tbody>
<tr>
<td>Dr. G. Azzie</td>
<td>Assistant Professor</td>
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<tr>
<td>Dr. P.P.L. Chiu</td>
<td>Assistant Professor</td>
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<td>Dr. S.H. Ein</td>
<td>Associate Professor</td>
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<tr>
<td>Dr. A.H. Fecteau</td>
<td>Associate Professor</td>
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<td>Dr. J.T. Gerstle</td>
<td>Associate Professor</td>
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<tr>
<td>Dr. S. Himidan</td>
<td>Assistant Professor</td>
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<td>Dr. P.C.W. Kim</td>
<td>Professor</td>
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<tr>
<td>Dr. J.C. Langer</td>
<td>Professor (Division Head)</td>
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<tr>
<td>Dr. P. Wales</td>
<td>Associate Professor</td>
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## PUBLICATIONS


Wales PW: Trauma (Pediatric Trauma Essentials.) Audio-Digest General Surgery: August 2010: 57(15).


**INVITED VISITS**

Azzie G: Bethune Round Table Conference on International Surgery, Montreal, Quebec, Canada, June 2011. One of 5 Presenters: Recommendations for a contextually appropriate surgical training program in Botswana.


Chiu PPL: Canadian Association of Pediatric Surgeons Annual Congress, Saskatoon, Saskatchewan, Canada, September 2010. One of 3 Presenters: Improved outcomes associated with delayed surgical repair for congenital tracheal stenosis infants less than one year of age.


Fecteau A: Canadian Society of Transplantation - Pediatric Ethics Symposium, Quebec City, Quebec, Canada, March 2011. Guest Speaker: When does Transplant Patient need a Parentectomy?


Himidan S: Genomics and Health Initiative, 5th Advisory Committee Meeting, NRC Program - VR Systems for Surgical Oncology, Boucherville, Quebec, Canada, May 2011.


Wales P: Women’s and Children’s Health Research Institute, Edmonton, Alberta, Canada, November 2010. Poster Presentation: Bacterial profile changes in the gastrointestinal tract of short bowel neonatal piglets.


Wales P: The Montreal Children’s Hospital, McGill University Health Centre, Montreal, Quebec, Canada, February 2011. Visiting Professor/Distinguished Speaker/Presenter: Short bowel syndrome – the future is bright.


Wales P: Canadian Paediatric Society 88th Annual Conference, Quebec City, Quebec, Canada, June 2011. Abstract: Prevalence of intestinal and liver failure after necrotizing enterocolitis.


RESEARCH AND INVESTIGATIONS


Parenteral omega-3 fatty acids for treatment of intestinal failure associated liver disease: A translational research study. Wales P; Turner J, Pencharz P; Ball R; Field C; Van Aerde J, Clandini, T: Canadian Institutes of Health Research. ($264,169 2011–2014)

Pediatric Acute Liver Failure (PALF) Registry with accompanying NAC Study - A double-blinded randomized control trial of N-acetylcysteine for pediatric acute liver failure not due to acetaminophen. Fecteau A, Ng VL: National Institute of Health (NIH). ($54,000 2010–2011)


HONOURS RECEIVED

Azzie G: POWER Teacher for Outstanding Contribution to Postgraduate Teaching, General Surgery, The Hospital for Sick Children, Faculty of Medicine, Department of Surgery. 2010

Langer J: Pediatric Surgery Resident Teaching Award, General Surgery, Department of Surgery, Faculty of Medicine, Sickkids. (Postgraduate MD, Clinical Fellow). Best teacher. January 2010.

Langer J: James C. Fallis Teaching Award, General Surgery [Multi-level Education], Department of Surgery, Faculty of Medicine, The Hospital for Sick Children. 2010.


Langer J: John R. Lilly Visiting Professor, General Surgery, University of Colorado, Faculty of Medicine, Department of Surgery, Multi-level Education – Specialty: Surgery. July 2010.

Wales P: POWER Teacher of the Year [Multi-level Education, Specialty: Department of Paediatrics], Paediatric Medicine, Department of Pediatrics, Faculty of Medicine, The Hospital for Sick Children. 2010.

Wales, P: Terry Fox Senior Secondary Wall of Fame, Terry Fox Senior Secondary School, Port Coquitlam, British Columbia, Canada. Awarded to a graduate of Terry Fox Senior Secondary who exemplifies the determination and commitment to change that Terry Fox did. 2011.
Division Of Neurosurgery

Dr. M. Dennis  Professor
Dr. P.B. Dirks  Professor
Dr. J.M. Drake  Professor (Division Head)

Dr. A.V. Kulkarni  Associate Professor
Dr. J.T. Rutka  Professor
Dr. M.D. Taylor  Associate Professor

PUBLICATIONS


**INVITED VISITS**

Dennis M: First International workshop on Hemispherectomy, Utrecht, Netherlands, September 2010. Keynote Speaker: Cortical plasticity and hemispherectomy in the 1970s: What were we thinking?

Dennis M: Karolinska Institute, Stockholm, Sweden, November 2010. Guest Lecturer: Gene, brain, and behaviour in spina bifida.


Dirks PB: Institut de Recherche En Immunologie et en Cancerologie (IRIC)/, Universite de Montreal, Montreal, Quebec, Canada, January 2011. The aberrant self renewal and differentiation of brain tumor stem cells.

Dirks PB: Gordon Research Conference on Stem Cells & Cancer, Ventura, California, USA, February 2011.


Dirks PB: American Association for Cancer Research (AACR), Orlando, Florida, USA, April 2011.

Dirks PB: Milan, Italy, April 2011. New Molecular Insights into the Brain Tumor Stem Cell Phenotype.


**Drake JM:** Japanese Society of Neurosurgery, 69th Annual Meeting, Fukuoka, Japan, October 2010. Choosing the best CSF diversion strategy in pediatric patients.

**Drake JM:** International Congress on Early Onset Scoliosis, Toronto, Ontario, Canada, November 2010. Syrinx, chiari, tether - need for treatment.

**Kulkarni AV:** International Federation of Neuroendoscopy, Tokyo, Japan, December 2010. Outcome in hydrocephalus.

**Rutka JT:** Cornell Medical College, Elsberg Lecture, New York, New York, USA, September 2010. Rolandic epilepsy surgery: Choosing between seylla and charybdisi.

**Rutka JT:** New Jersey Medical School, 2010 Harry Kaplan Sponsored Lecturership in Neurosurgery, New Jersey, USA, September 2010. Distinguished Speaker: Medulloblastoma: One disease, two or more?

**Rutka JT:** University of Wisconsin, Grand Rounds, Madison, Wisconsin, USA, September 2010. (1) Neurosurgical leadership, (2) Building a brain tumor center, (3) Medulloblastoma: Once disease, two or more?

**Rutka JT:** Congress of Neurological Surgeons, San Francisco, California, USA, October 2010. (1) Cases and Coffee with the Masters, (2) Pediatric brain Tumor treatment and strategies

**Rutka JT:** McMaaster University, Hamilton, Ontario, Canada, October 2010. (1) Effective surgical leadership: Why it matters, (2) Medulloblastoma: One Disease, two or more?

**Rutka JT:** The Society of Neurological Surgeons, Research Update in Neuroscience of Neurosurgery (RUNN) Course, Boston, Massachusetts, USA, October 2010. Medulloblastoma-from a difficult past to a promising future.

**Rutka JT:** 2010 Pediatric Section Meeting, Cleveland, Ohio, USA, December 2010. Neurosurgical leadership: A pediatric neurosurgeon’s perspective.


**Rutka JT:** Texas Annual Neurosurgical Society Meeting 2011, Dallas, Texas, USA, February 2011. (1) Pediatric Neurosurgical Oncology: What You Need to Know, (2) Strategic Planning and the Future of the AANS, (3) Medulloblastoma: One disease Four or More.

**Taylor MD:** Children’s Oncology Group Fall Meeting, Translational Medicine Committee, Dallas, Texas, USA, September 2010. (1) Intra and Intertumoral heterogeneity: Just how many medulloblastomas are there anyways? (2) Practical subgrouping of medulloblastoma.

**Taylor MD:** Duke University, Preston Robert Tisch Brain Tumour Center Seminar, Durham, North Carolina, USA, October 2010. Intra and intertumoral heterogeneity in pediatric medulloblastoma.

**Taylor MD:** American Academy of Neurological Surgery, Pebble Beach, California, USA, November 2010. Medulloblastoma Comprises Four Distinct Diseases.

**Taylor MD:** Institut de recherches cliniques de Montreal, Quebec, Canada, November 2010. Inter and Intratumoral Heterogeneity in childhood medulloblastoma.

**Taylor MD:** Massachusetts General Hospital, Tenth Annual Frye Halloran Brain Tumor Symposium, Boston, Massachusetts, USA, November 2010. Molecular subgrouping of medulloblastoma through transcriptional profiling and copy number determination.

**Taylor MD:** Society for Neuro-Oncology, 15th Annual Scientific Meeting, Montreal, Quebec; Canada, November 2010. Adolescent and adult medulloblastoma: evolving understanding of biology and changes in therapeutic approach: molecular genetics.

**Taylor MD:** Sonntag Foundation Annual Retreat, Yulee, Florida, USA, February 2011. The myth of medulloblastoma. Intra and intertumoral heterogeneity across space and time.


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**RESEARCH AND INVESTIGATIONS**

Asymmetrical self renewal in normal and cancer stem cells of the human brain. *Dirks P. Canadian Institutes of Health Research (CIHR).* ($588,180  2008 - 2013)
Cellular and genetic basis of anaplastic medulloblastoma. Taylor M, Weiss W (UCSF), Wechsler-Reya (Sanford-Burnham Institute, San Diego): National Institutes of Health (NIH), USA. ($2,686,145 2011-2016)


Chemical Genomics of Brain Tumor Stem Cells. Dirks P, Many Other Collaborators: Ontario Institute for Cancer Research (OICR)/Terry Fox Selective Therapeutics. ($305,000 2009 - 2012)

Clinician-Scientist Phase II Award [Renewal]. Taylor M: Canadian Institutes of Health Research (CIHR). ($150,000 2010 - 2013)

CO2 Incubator. Rutka J: Private Recipes Limited, b.r.a.i.n.child. ($18,748 2010 - 2011)

Defining cancer stem cell and clonal heterogeneity in mouse brain tumours. Dirks P: Canadian Cancer Society. ($548,000 2009 - 2013)

Effects of dysregulated HGF/cMET signalling on cerebellar development and medulloblastoma formation. Rutka J: Private, b.r.a.i.n.child. ($23,645 2010 - 2011)

Funding for laboratory. Taylor M: Ontario Institute for Cancer Research (OICR), Cancer Stem Cell Initiative. ($263,290 2008 - 2011)


Genesis Project [Cancer Stem Cells]. Ontario Institute for Cancer Research (OICR), Dirks P, Many Other Collaborators. ($750,000 2008 - 2013)

Optimized delivery of small molecules designed to prevent spreading in a mouse model of Astrocytoma. Rutka J: Private Recipes Limited, b.r.a.i.n.child. ($23,000 2010 - 2011)

Role of histone lysine methylation in medulloblastoma and cerebellar development. Taylor M: Canadian Institutes of Health Research (CIHR). ($540,219 2010 - 2013)

Studying the role of RNA granule in paediatric brain tumors BC 10-29. Weeks A, Rutka J: Anonymous Private Individuals, b.r.a.i.n.child (Canadians). ($29,000 2010 - 2010)

Targeting brain cancer with novel drug therapies. Rutka J: Private Recipes Limited, b.r.a.i.n.child. ($25,000 2010 - 2012)


The role of aberrant HGF/cMET signaling in medulloblastoma. Rutka J: Canadian Cancer Society Research Institute. ($378,000 2008 - 2011)

The role of aberrant HGF/cMET signaling in medulloblastoma. Taylor M, Rutka J: National Cancer Institute of Canada (NCIC). ($378,000 2008 - 2011)

The role of isochromosome 17q in medulloblastoma. Rutka J, Dirks P, Taylor M, Tabori U: Pediatric Brain Tumor Foundation. ($1,198,800 2008-2011)

Tumour bank expansion: Rutka J: Brain Tumor Research Bank (BTRC). ($24,585.75 2009-2011)


Understanding the brain tumorigenic process: focus on cancer stem cells. Dirks P: National Cancer Institute of Canada (NCIC). ($564,000 2007-2011)

Zebrafish as a novel, tractable model of metastatic medulloblastoma. Taylor M, Scott I; David Pitblado 'New Ideas' Cancer Research Fund, The Hospital for Sick Children. ($50,000 2010 - 2011)

HONOURS RECEIVED


Taylor M: Bristol-Myers Squibb Oncology Scholar-In-Training Award, American Association of Cancer Research, USA. Clonal selection and parallel evolution during leptomeningeal dissemination of human and mouse medulloblastoma result in bicompartamental disease. 2010.
Division Of Orthopaedics

Dr. B.A. Alman  Professor [Division Head]
Dr. S. Hopyan  Assistant Professor
Dr. A. Howard  Associate Professor
Dr. S. Kelley  Assistant Professor
Dr. M.L. Murnaghan  Assistant Professor

Dr. U.G. Narayanan  Assistant Professor
Dr. J.H. Wedge  Professor
Dr. J.G. Wright  Professor
Dr. R. Zeller  Associate Professor

PUBLICATIONS


Bederman SS, McIsaac WJ, Coyte PC, Kreder HJ, Mahomed NN, Wright JG: Referral practices for spinal surgery are poorly predicted by clinical guidelines and opinions of primary care physicians. Medical Care: September 2010:48[9]: pp 852-858.


**INVITED VISITS**

Alman B: Institute for Frontier Medical Sciences at the University of Kyoto, Kyoto, Japan, September 2010. From development to pathology; Hedgehog signaling in osteoarthritis and chondrosarcoma.


Alman B: Southern Illinois School of Medicine, Springfield, Illinois, USA, October 2010. (1) Cutting the roots: How we can cure sarcomas by understanding stem cells, (2) Teaching orthopaedics “upside-down”: A competency based orthopaedic residence curriculum, (3) Building better bones: Developmental biology in orthopaedics, (4) Bigger is not better: Obesity in pediatric orthopaedics.


Alman B: McMaster University, Department of Surgery, Resident’s Research Day, Hamilton, Ontario, Canada, November 2010. Why is research important and the role of SSP trainees.


Alman B: Duke University School of Medicine, Raleigh, North Carolina, USA, January 2011. What development teaches about sarcoma: Hedgehog signaling in chondrocytes.


Alman B: Massachusetts General Hospital, Boston, Massachusetts, USA, January 2011. Don’t hedge your bets: Hedgehog signaling in development, osteoarthritis, and cartilage neoplasia.


Alman B: Gordon Research Conference on Cartilage Biology & Pathology, Ventura, California, USA, March 2011. From development to pathology: Hedgehog signalling in cartilage neoplasia and osteoarthritis.


Alman B: Yale School of Medicine, Orthopaedic Grand Rounds, New Haven, Connecticut, USA, March 2011. Steroids in muscular dystrophy: A case for basic science in orthopaedics.


Alman B: Children’s Hospital Medical Center, Department of Orthopaedics, Cincinnati, Ohio, USA, June 2011. Duchenne’s muscular dystrophy: A case for basic science in orthopaedics.

Alman B: University of Cincinnati, Orthopaedic Department, Grand Rounds, Cincinnati, Ohio, USA, June 2011. What’s the evidence that the evidence is right.

Hopyan S: 11th International Conference on Limb Development and Regeneration, Williamsburg, Virginia, USA, July 2010. One of 6 Presenter(s): Oriented cell motility and division underlie early limb bud morphogenesis.


Howard A: American Academy of Orthopaedic Surgeons (AAOS), San Diego, California, USA, February 2011. The adolescent elbow.


Howard A: Canadian Anaesthesiologists Society, Toronto, Ontario, Canada, June 2011. Guest Speaker: Paediatric trauma resuscitation: Whose specialty is it anyway?

Murnaghan L: Canadian Orthopaedic Association (COA) Basic Science Course, Montreal, Quebec, Canada, October 2010. Guest Speaker: Pediatric orthopaedics - fractures and infections.

Murnaghan L: Rocky Mountain Hospital for Children, Vail, Colorado, USA, January 2011. OCD MRI classification system & ROCK OCD journal club.


Wedge J: International Hip Dysplasia Institute, Mexico City, Mexico, August 2010. Presenter: (1) Technique of closed reduction for DDH, (2) The long-term results of Salter’s approach to DDH after walking age, (3) The spectrum of pathology in DDH and the required surgical techniques to treat variations in abnormal anatomy.

Wedge J: International Paediatric Orthopaedic Think Tank, Stockholm, Sweden, September 2010. (1) Neonatal hip screening is not effective - A new approach is required, (2) Habitual hip dislocation in Trisomy 21, (3) Closed or open reduction in DDH from 6 to 18 months.

Wedge J: Salter Society, Toronto, Ontario, Canada, October 2010. Presenter: Screening for DDH is not effective - A new approach as advocated by Bob Salter is required.

Wedge J: Tel Aviv Medical Centre/Dana Children’s Hospital, Tel Aviv, Israel, November 2010. (1) Universal screening DDH is not very effective - a new approach is required, (2) Closed versus open reduction in children with DDH from six to fifteen months of age, (3) The management of habitual dislocation of the hip in Trisomy 21, (4) Fifty years experience with Salter’s innominate osteotomy, (5) Variations in pathological anatomy in DDH, (6) Current concepts in the management of symptomatic hip dysplasia in adolescents and young adults, (7) Controversies in the diagnosis and management of DDH, (8) The enigma of Legg Perthes Disease, (9) The technique of closed reduction.

Wright J: International Paediatric Orthopaedic Think Tank (IPOTT), Annual Meeting, Stockholm, Sweden, September 2010. (1) Changing surgeons’ behaviour: The final challenge in evidence-based orthopaedics, (2) Enhancing perioperative services to improve access and reduce wait times for safe high quality care.

Wright J: Orthopedic Associations, Combined Meeting/Symposium, Glasgow, Scotland, United Kingdom, September 2010. Guest Speaker: What is currently going on in terms of quality in ABC countries (policy implications, pros and cons).


Wright J: Taming of the Queue Conference, Ottawa, Ontario, Canada, March 2011.

Zeller R: Socieded Colombiana de Cirugia Ortopedica y Traumatologia, Cartagena, Colombia, February 2011. Presenter: (1) Direct vertebral derotation: A new way to correct spinal torsion in scoliotic deformities, (2) Non fusion strategies in early onset scoliosis, (3) Less constraint leads to better results: The uniaxial screw fixation, (4) Surgical management of spinal deformities in spinal muscular atrophy.


Zeller R: International Paediatric Orthopaedic Think Tank, Stockholm, Sweden, September 2010. Presenter: Less constraint leads to a better results! The uniaxial screw fixation for scoliosis correction.

Zeller R: Quebec Orthopaedic Association, La Malbaie, Quebec, September 2010. Presenter: (1) Lumbar disk arthroplasty: The way of the future or a part of the past?, (2) Paediatric spondylolisthesis: Management.

**RESEARCH AND INVESTIGATIONS**


Beta-catenin in aggressive fibromatosis. Alman B: National Cancer Institute of Canada (NCIC). ($681,140 2008-2013)


Canada Research Chair, Canada. Alman B: Research Award, Specialty: Musculoskeletal Research, Tier II. Renewal ($500,000 2006-2011)


Child pedestrian injury in the City of Toronto: The role of the built environment and active school transportation. Howard A: Canadian Institutes of Health Research, Doctoral Award-Frederick Banting and Charles Best Canada. ($105,000 2011-2014)


Epigenetic determinatin of limb bud positional identity by Ezh2. Hopyan S: Transplant Centre, Hospital for Sick Children. ($80,000 2010 - 2011)


Hedgehog signalling in cartilage neoplasia and development. Alman B: Canadian Institutes of Health Research (CIHR). [$807,945 2008-2013]

Identifying the desmoid initiating cell. Alman B: Desmoid Tumor Research Foundation. [$65,000 2010-2011]


Molecular mechanisms in fracture and wound healing. Alman B: Canadian Institutes of Health Research (CIHR). [$931,675 2008-2013]

Molecular mechanisms in fracture and wound healing. Alman B: Canadian Institutes of Health Research (CIHR). [$484,962 2009-2014]

Nefopam as an agent to prevent and treat hyperplastic scars. Alman B: Canadian Institutes of Health Research (CIHR). [$159,975 2010-2011]


Topical nefopam efficacies studies. Alman B: MaRS Innovation. [$14,139 2010 - 2011]

Traffic and Road Injury Prevention (TRIP) Program for Canadian Children. Howard A, Snowdon A: Canadian Institutes of Health Research (CIHR), Transportation Safety Research Program for Canadians. [$1,600,000 2010 - 2015]

**HONOURS RECEIVED**

Alman B: Charles Tator Surgeon-Scientist Mentoring Award, University of Toronto, Department of Surgery, Annual Gailie Day. Awarded to the Faculty member within the department of surgery that has guided and mentored those in the Surgeon-Scientist program. 2011.

Alman B: Lodwick Award, Massachusetts General Hospital. For the best/most interesting paper published in the broad area of musculoskeletal medicine or biology during the calendar year. 2011

Wright J: President’s Award, The Hospital for Sick Children, Toronto, Ontario, Canada. Inaugural President’s Award for outstanding leadership, commitment to high quality and performance, and dedication to improving access to surgical services for children around the country. 2011
Division Of Plastic And Reconstructive Surgery

Dr. G. Borschel  Assistant Professor
Dr. H.M. Clarke  Professor
Dr. J.S. Fish  Associate Professor
Dr. D.M. Fisher  Associate Professor
Dr. C.R. Forrest  Professor (Division Head)

Dr. T. Gordon  Professor
Dr. C.Y. Pang  Professor
Dr. J.H. Phillips  Associate Professor
Dr. R.M. Zuker  Professor

PUBLICATIONS


**INVITED VISITS**


Clarke H: American Society of Plastic Surgical Nurses, Toronto, Ontario, October 2010. The delivery of health care in Canada - Does it work?

Clarke H: The First Annual Pediatric Upper Extremity Symposium, Toronto, Ontario, October 2010. Does the active range of motion of patients with obstetrical brachial plexus palsy diminish over time?

Clarke H: 11th Triennial Congress of the International Federation of Societies for Surgery of the Hand, Seoul, Korea, November 2010. (1) Paediatric hand surgery, (2) Further indications for primary nerve surgery in obstetrical brachial plexus palsy patients with excellent elbow recovery, (3) Final analysis of suprascapular nerve reconstruction either anatomically or via accessory nerve transfer.

Clarke H: Janeway Foundation Visiting Professorship in Surgical Paediatrics - Cleft lip rhinoplasty. Janeway Children’s Hospital, Saint John’s, Newfoundland and Labrador, Canada, November 2010. One of 2 Presenters: (1) An audit of primary palatoplasty; results from one surgeon and 485 cases over 10 years, (2) The relationships between cleft length, cleft width and cleft type in cleft palate.


Clarke H: 17th Annual Conference of Paediatric Orthopaedic Society of India, Chandigarh, India, February 2011. (1) Natural history of obstetrical brachial plexus palsy, (2) Primary and secondary reconstruction options for the elbow, wrist and hand.


Fish J: National Academy of Neuropsychology, 30th Annual Conference, Vancouver, British Columbia, Canada, October 2010. Poster Presentation to Patients/Public (with Grigorovich A, on behalf of the research team at SJRH. Preliminary results of the initial phase of the longitudinal research study): Long term neuropsychological sequelae following electrical injury.


Fish J: American Burn Association – Canadian Special Interest Group, Chicago, Illinois, USA, April 2011. (1) Podium Presentations [with Cross K]; (a) Quality care review of introducing aquacell AG in pediatric scald burn treatment, (b) Increased level of methemoglobin are a marker of tissue viability in a porcine burn model. (2) Poster Presentations: (a) A provincial, evidence-based rehab definitions framework, b) Executive functioning in electrical injury: High versus low voltage, (3) Sunrise Symposia Presentation: What’s new in the treatment of scald burns, (4) Podium Presentation [Con]: Pressure garments are not necessary for healed burns/grafts.

Fish J: International Confederation for Plastic and Reconstructive Surgery (IPRAS), Vancouver, Canada, May 2011. Presenter [with Cross k]: (1) Non-invasive measurement of edema in burn wounds over time utilizing near infrared spectroscopy (NIRS), (2) Increased levels of methemoglobin are a marker of tissue viability in a porcine burn model.

Fish J: Oatley Vigmond, Barristers and Solicitors, Toronto, Ontario, Canada, June 2011. Guest Speaker/Presentation to the legal field on the challenges of burns as people age: Burns in the aged.


Fisher D: American Society of Plastic Surgeons, Craniofacial Track, Toronto, Ontario, Canada, October 2010. One of 2 Presenters: (1) An audit of primary palatoplasty; results from one surgeon and 485 cases over 10 years, (2) The relationships between cleft length, cleft width and cleft type in cleft palate.

Fisher D: Janeway Children’s Hospital, Saint John’s, Newfoundland and Labrador, Canada, November 2010. Janeway Foundation Visiting Professorship in Surgical Paediatrics - Cleft lip rhinoplasty.

Fisher D: American Cleft Palate – Craniofacial Association, San Juan, Puerto Rico, April 2011. Presentations: (1) An audit of primary palatoplasty; results from one surgeon and 485 cases over 10 years, (2) Treatment of the cleft nasal deformity from birth through maturity.

Fisher D: Craniofacial Society of Great Britain & Ireland, Annual Conference, York, United Kingdom, April 2011. Principal Guest speaker/Keynote Lecture at the 22q11 Deletion Syndrome Symposium. (1) Surgery for VPI in 22q11 patients ‘The Toronto Experience’; (2) Anatomic subunit repair techniques, (3) Management of cleft lip and palate, (4) Surgeon’s Special Interest Group Meeting - Cleft rhinoplasty.


Forrest C: Seattle Children’s Hospital, Division of Plastic Surgery Grand Rounds, Seattle, Washington, USA, June 2011. The Hospital for Sick Children model of craniofacial care.


Zuker R: American Society of Plastic Surgeons, Toronto, Ontario, Canada, October 2010. Panel Member: Unilateral facial paralysis reconstruction with muscle transplantation innervated by the motor nerve to gracilis.


Zuker R: Cardiovascular and Interventional Radiological Society of Europe, Annual Meeting, Valencia, Spain, October 2010. One of 3 Presenters: Brachial pseudoaneurysm in the neonate, a case report.


RESEARCH AND INVESTIGATION


A transgenic rat expressing GFP in peripheral nerves. Borschel, G, Moore AM, Mackinnon S: Plastic Surgery Educational Foundation. ($10,000 2009-2010)

An optical imaging device for a rapid assessment of tissue viability and wound healing. Fish J, Sowa M: CRTI, Research and Technology Initiative. ($2,750,000 2011 – 2012)

An optical imaging device for a rapid assessment of tissue viability and wound healing. Fish J, Sowa M: Centre for Security Science. ($180,000 2011 – 2014)


GDNF microspheres for treatment of nerve injury in a rat model. Borschel G, Gordon T, Shoichet M: Canadian Institutes of Health Research (CIHR)/Natural Sciences and Engineering Research Council (NSERC). ($390,000 2010-2013)

How do side-to-side nerve grafts promote recovery after nerve injury? Borschel G, Gordon T: Canadian Institutes of Health Research (CIHR). ($1,000,000 2010-2015)

IAMGold Fellowship in peripheral nerve regeneration research. Borschel G, Gordon T: IAMGold, Inc. ($80,000 2011-2013)


Pediatric upper extremity function questionnaire. Borschel G, Ho E: Canadian Institutes of Health Research (CIHR). ($34,925 2010-2011)


HONOURS RECEIVED

Division Of Urology

Dr. D.J. Bagli  Professor
Dr. W.A. Farhat  Associate Professor
Dr. M.A. Koyle  Professor
Dr. A.J. Lorenzo  Assistant Professor
Dr. J.L. Pippi Salle  Professor (Division Head)

PUBLICATIONS


INVITED VISITS

Bagli D: Canadian Society for Life Science Research, Montreal, Quebec, Canada, August 2010. Mechanotransduction in bladder fibroproliferative disease.


Farhat W: Canadian Urological Association, Annual Meeting, Montreal, Quebec, Canada, June 2011. (A) Moderated Poster Presentations: (1) Dysfunctional voiding symptom score performance in pediatric patients with dysfunctional voiding enrolled in randomized trial investigating biofeedback, (2) Preputial grafts use during staged hypospadias repair in children with proximal hypospadias and severe ventral curvature, (3) Urinary tract findings in children with recurrent urinary tract infections and history of hypospadias surgery, (B) Podium Presentations: (1) Initial experience with laparoscopic nephrectomy for pediatric uro- oncology cases, (2) Patterns of presentation, diagnosis and gender assignment in a Canadian multidisciplinary clinic of disorders of sex development (dsd), (3) Outcome of a prospective randomized trial investigating effect of biofeedback on self-esteem in pediatric patients with dysfunctional voiding.

Koyle M: American Urological Association Annual Board Review Course, Dallas, Texas, USA, July 2010. Pediatric urological oncology and pediatric incontinence and voiding dysfunction.


Koyle M: 3rd World Congress of Pediatric Surgery, New Delhi, India, October 2010. Hypospadias: an evolutionary and personal approach.

Koyle M: National Conference and Exhibition of the American Academy of Pediatrics, Section on Urology, San Francisco, California, USA, October 2010. What is that? Interlabial and common concerns of the external genitalia in girls.

Koyle M: Emory University School of medicine, Atlanta, Georgia, USA, December 2010. External genitalia: Interlabial anomalies in female children.

Koyle M: Case Western Reserve University School of Medicine, Cleveland, Ohio, USA, December 2010. An historical assessment of surgery in the DSD patient: Is criticism in order?


RESEARCH AND INVESTIGATIONS

CIHR team in the effects of brominated flame retardants on reproductive health: Animal, human, ethical, legal and social studies human development, child and youth health. Goodyear C, Bagli D: Canadian Institutes of Health Research (CIHR). ($499,000 2009 - 2013)

Center for computer-assisted intervention and innovation (CCAII) [RE-02-022]. Farhat WA, Wright J, Kim P: Ontario Research Fund (ORF). ($3,395,000 2008 - 2012)


E. coli-induced alterations in the uroepithelial epigenome as a marker for UTI risk. Tölö C, Lorenzo A, Bagli D: The Physicians’ Services Incorporated Foundation. ($140,000 2010 - 2012)

Effect of sex steroids on wound healing in hypospadias. Ahmad H, Bagli D: Society for Pediatric Urology, Research Fellowships. ($30,000 2010-2011)

Epigenetic effects of uropathogenic e.coli in uroepithelial cells. Weber B, Bagli D: American Urological Association Foundation, Research Fellowship. ($40,000 2010-2011)

Epigenetic responses to uropathogenic e.coli urinary tract infection. Weber B, Bagli D: American Urological Association Foundation, Research Fellowship. ($37,000 2010-2011)

Epigenetic mechanisms in the development of hypospadias. Aitken K, Bagli D: American Urological Association Foundation, Research/PhD Fellowship. ($40,000 2010-2011)

Innovative project/clinical trials. Lorenzo A: The Hospital for Sick Children, Inaugural Innovation Fund. ($100,000 2008-2011)


Novel therapeutic approaches for obstructive bladder disease. Bagli D: Canadian Institutes of Health Research (CIHR). ($440,000 2009 - 2013)


Role of sex steroids in perioperative management of hypospadias: Initial human cell studies in vitro. Haddad A, Bagli D: Society for Pediatric Urology. ($37,000 2010 - 2011)

Uropathogenic e.coli effects on the uroepithelial epigenome as a marker for UTI propensity and recurrence. Tölö C, Bagli D: The Physicians Services Incorporated Foundation. ($180,000 2010 - 2012)

Uropathogenic e. coli-induced alterations in the uroepithelial cell epigenome as a marker for urinary tract infection risk. Lorenzo AJ, Tölö C: The Physicians’ Services Incorporated Foundation. ($170,000 2010 - 2012)


Validation of real-time, intra-operative, surgical competence (RISC) assessments linked to patient outcomes. The Physicians Services Incorporated Foundation. ($91,500 2009 - 2011)

HONOURS RECEIVED


Mount Sinai Hospital
Jay S. Wunder, Surgeon-in-Chief
Rubinoff-Gross Chair in Orthopaedic Oncology

HEADS OF DIVISION

Dr. C. Swallow  General Surgery
Dr. J.S. Wunder  Orthopaedics
Dr. K. Jarvi  Urology

DIVISION OF GENERAL SURGERY

Andrea McCart was promoted to Associate Professor in the Department of Surgery at the University of Toronto. The division has been very productive this past year having published 31 articles along with speaking internationally. Research funding has come from the American Society of Colon and Rectal Surgeons; Canadian Institutes of Health Research; Public Health Agency of Canada; Canadian Institutes of Health Research, Mesothelioma Applied Research Foundation, Samuel Lunenfeld Research Institute; Ethicon and Ethicon Endosurgery; National Cancer Institute of Canada; Ontario Institute of Cancer Research.

DIVISION OF ORTHOPAEDICS

Dr. David Backstein won the Aikens Award in the Course/Program Development category. Forty-four articles were accepted and published in journals. Research funding was received from Canadian Institutes of Health Research; Ontario Institute for Cancer Research; Institute of Musculoskeletal Health and Arthritis; Canadian Arthritis Network; McLaughlin Centre for Molecular Medicine; The Royal College of Physicians and Surgeons; Canadian Foundation for Innovation; Canadian Orthopaedic Foundation; The Physicians Services Incorporated Foundation; and University of Toronto.

DIVISION OF UROLOGY

Eighteen papers were published for the year 2010-2011. Research funding was awarded from National Institutes of Health; Ontario Institute for Cancer Research; Canadian Urological Association Scholarship Foundation; Canadian Institutes of Health Research; The Physicians Services Incorporated Foundation; The Royal College of Physicians and Surgeons of Canada; MaRS Innovation; Glaxo Smith Kline; Pierre Fabre Medicament; Canadian Cancer Society research Institute; Institut Merieux, and Association for Surgical Education, CESERT.
Division Of General Surgery

Dr. Z. Cohen  Professor
Dr. A.M. Easson  Assistant Professor
Dr. R. Gladdy  Assistant Professor
Dr. R.N. Gryfe  Assistant Professor
Dr. H.M. MacRae  Associate Professor
Dr. J.A. McCart  Associate Professor
Dr. R.S. McLeod  Professor
Dr. C.J. Swallow  Professor (Division Head)

PUBLICATIONS


INVITED VISITS


Cohen Z: 34th International Surgery Forum, Madrid, Spain, May 2011. (1) Controversies in pelvic pouch surgery; (2) Genetic and surgical consideration in FAP; (3) How are we training our resident surgeons? (4) Modern management of peri-anal Crohn’s Disease.


MacRae HM: Ground Rounds, University of Manitoba, Winnipeg, Manitoba, November 2010. Technical Skills Training: “What is Learned in the Sim Centre?”


MacRae HM: Lahey Clinic - LB Sanders Lectureship, Boston, Massachusetts, United States, May 2011. Technical Skills - what is the role of the Simulation Centre?

McLeod RS: Canadian Health Services Research Foundation, Mont Tremblant, Quebec, August 2010. (1) Engaging physicians in quality improvement initiatives; (2) Improving Quality of Care-the Good, the Bad and the Ugly!

McLeod RS: Royal College Gallie Lecture, Canadian Association of General Surgeons, Quebec City, September 2010. (1) Improving the quality of cancer surgery- The Cancer Care Ontario experience; (2) Best Practice in General Surgery; (3) Is appendectomy necessary? Let’s do journal club.

Swallow CJ: McGill University and McGill University Health Centre, Department of Surgery Grand Rounds, Montreal, Quebec, October 2010. Update on surgery for gastrointestinal stromal tumour in the context of multimodality therapy.


RESEARCH AND INVESTIGATIONS

A provincial audit to assess the quality of MRI for the staging of rectal cancer in Ontario. Al-Sukhni E, Kennedy ED, McLeod RS, Milot L, Fruitman M, Victor JC: American Society of Colon and Rectal Surgeons. ($20,000 2010 - 2011)


Discovery of targets for the prevention of invasion and metastasis of colorectal and breast cancers and sarcoma. Swallow, CJ, Woodgett J, Andrulis I, Wrana J, Dennis J: Samuel Lunenfeld Research Institute. ($1,000,000 2008 - 2011)

Evidence based reviews in surgery. McLeod, RS: Ethicon and Ethicon Endosurgery. ($275,000 1999 - 2011.)


Division Of Orthopaedics

Dr. D. Backstein  Associate Professor
Dr. R.S. Bell  Professor
Dr. P.C. Ferguson  Assistant Professor
Dr. A.E. Gross  Professor (Division Head)
Dr. O. Safir  Assistant Professor
Dr. J. Theodoropoulos  Lecturer
Dr. T. Willett  Lecturer
Dr. S.J. Wunder  Professor (Division Head)

PUBLICATIONS


Dickie CI, Parent AL, Chung PWM, Catton CN, Craig T, Griffin AM, Panzarella T, Ferguson PC, Wunder JS, Bell RS, Sharpe MB, O’Sullivan B: Measuring interfraction and intrafraction motion with cone beam computed tomography (CBCT) and an optical localization system(OLS) for lower extremity soft tissue sarcoma patients treated with preoperative intensity Modulated Radiation Therapy [IMRT]. International Journal of Radiation Oncology, Biology, Physics: December 2010: 78[5]: pp 1437-1444.


INVITED VISITS


Backstein D: American Academy of Orthopaedic Surgeons, Annual Meeting, San Diego, California, USA, February 2011. (1) Correlation between a painful stimulus rated by the visual analogue scale to knee society scores, (2) Revision total knee arthroplasty for component malrotation is highly beneficial, (3) Poster Presentations: (a) Acetabular alignment and primary arc of motion in THA for 28mm, 32mm, 36mm and 40mm heads, (b) THA in Down Syndrome patients: An improvement in quality of life.

Backstein D: Cleveland Clinic Arthroplasty Course: The Cutting Edge, Cleveland, Ohio, USA, March 2011. (1) Complex revision TKA – Toronto experience, (2) Knee osteotomy: Where, when and how, (3) Management of ligament instability in revision TKA – device and technique options.


**Backstein D:** Zimmer Canada, Montreal, Quebec, Canada, June 2011. (1) Chair: Addressing the difficulties of revision knee arthroplasty, (2) Presenter: (a) Revision total knee replacement using a hinge, (b) Total knee replacement using distal femoral replacement.

**Bell RS:** McGill Academic Health Network Retreat, Montreal, Quebec, Canada, August 2010. Integration lessons from the Toronto Academic Health Science Network.

**Bell RS:** Power Summit, Toronto, Ontario, Canada, September 2010. Quality.

**Bell RS:** Ontario Association of General Surgeons, 16th Annual Meeting, Toronto, Ontario, Canada, October 2010. The surgeon and hospital leadership: Acrimony or alignment?

**Bell RS:** Ontario Hospital Association Programs Conference, Toronto, Ontario, Canada, January 2011. Updates from the Most Responsible Physician Expert Panel.

**Bell RS:** Canadian Health Services Research Foundation, EXTRA Project and CEO Forum, Montreal, Quebec, Canada, February 2011. (1) Leadership and managing organizational politics, (2) Leadership in accountability in Canadian healthcare: Creating the momentum to improve quality.

**Bell RS:** Conference Board of Canada, Toronto, Ontario, Canada, April 2011. Lean methods and sustainability in Ontario hospitals.

**Bell RS:** C.D Howe Institute, Toronto, Ontario, Canada, June 2011. Outlook on health care policy: How Canada’s research hospitals serve as innovation engines for improving patients outcomes.

**Ferguson PC:** 16th Uruguayan Orthopaedic & Traumatology Congress, Montivedeo, Uruguay, September 2010. (1) Current approaches to management of bone metastases, (2) Evaluation and management of extremity soft tissue sarcomas - Staying out of trouble, (3) Rationale and design of a competency-based training curriculum in orthopaedics.

**Ferguson PC:** American College of Surgeons, Accredited Education Institutes Postgraduate Course, Toronto, Ontario, Canada, October 2010. Curriculum development for a competency-based program.

**Ferguson PC:** Ontario Orthopaedic Association, Toronto, Ontario, Canada, November 2010. Pitfalls of the biopsy.

**Ferguson PC:** Musculoskeletal Tumor Society Specialty Day, Session Moderator, San Diego, California, USA, February 2011. Complications of radiation in musculoskeletal oncology.

**Gross AE:** Israeli Clinical Fellows Reunion, Tel Aviv, Israel, July 2010. Invited Lecturer: (1) Articular defects of the knee, (2) Total hip replacement for dysplasia, (3) Revision hip arthroplasty, (4) Revision arthroplasty of the hip femoral side: The surgical technique and longterm results of proximal femoral allograft for massive proximal femoral bone loss, (5) Modified trochanteric slide.

**Gross AE:** Sociedad Antioquena de Ortopedia y Traumatologia (SAOT), First International Hip Course, Medellin, Colombia, October 2010.

**Gross AE:** Zimmer Institute, Montreal, Quebec, Canada, October 2010. Trabecular metal material in the hip and knee featuring the continuum acetabular system.

**Gross AE:** Zimmer Institute Bioskills Training, Parsippany, New Jersey, USA, November 2010. Zimmer revision hip arthroplasty solutions.

**Gross AE:** Case Western Reserve University School of Medicine and The Cleveland Orthopaedic Society, 46th Annual Mt. Sinai Reich Lectureship, Mt. Sinai Reich Lecturer, Cleveland, Ohio, USA, April 2011. Revision arthroplasty of the acetabulum with restoration of bone stock: Porous metals vs bone grafts.

**Murnaghan L:** 7th Annual Pediatric Emergency Medicine Conference (Continuing Education), Toronto, Ontario, Canada, October 2010. Acute knee and shoulder injuries in the growing athlete.

**Murnaghan L:** Canadian Orthopaedic Association (COA) Basic Science Course (Continuing Education), Montreal, Quebec, Canada, October 2010. Pediatric orthopaedics – fractures and infections.

**Murnaghan L:** Rocky Mountain Hospital for Children, Vail, Colorado, USA, January 2011. OCD MRI classification system and ROCK OCD journal club.

**Murnaghan L:** DANA Children’s Hospital, Tel Aviv, Israel, April 2011. (1) Hip arthroscopy in the pediatric patient, (2) Ossicles around the foot, (3) Osteochondritis dissecans of the capitellum in adolescent athletes.
Safir O: Serbian Orthopaedic & Trauma Association (SOTA) Conference, Belgrade, Serbia, October 2010. Use of proximal femoral allograft in hip revisions.


Wunder JS: Infinity Pharmaceuticals Investigator Meeting, Santa Monica, California, USA, May 2011. Rationale for hedgehog blockade for chondrosarcoma.


**RESEARCH AND INVESTIGATIONS**

*Senior investigator's name appears in italics*

A murine model of adynamic bone disease. Grynpas M, Alman B: Canadian Institutes of Health Research (CIHR). ($480,000 2010-2014)

Beyond bone mineral density: Assessment of bone health and fracture risk with the mechanical response tissue analyzer. Willett T, Grynpas M: Canadian Institutes of Health Research (CIHR). ($99,985 2010-2011)


Development and validation of a preclinical model of radiation impaired fracture healing. Willett T, Grynpas M, Ferguson P: Canadian Institute of Health Research (CIHR), Institute of Musculoskeletal Health and Arthritis [IMHA]. ($100,000 2010-2011)

Do advanced glycation endproducts accelerate osteoarthritis? Grynpas M, Kandel R, Dennis M, Willett T: Canadian Arthritis Network. ($50,000 2009-2011)


Hedgehog signaling in cartilage neoplasia and development. Wunder JS, Alman B: Canadian Institutes of Health Research. [($807,945 2008-2013]


Infrastructure for molecular genetics and thereapeutics in sarcoma. Andrulis IL, Andrulis IL, Swallow CJ, Wunder JS: Canadian Foundation for Innovation. [($390,188 2009-2010]


The sensitivity of bone fracture resistance to advanced glycation endproducts. Willett T: University of Toronto. [($10,000 2010-2011]

HONOURS RECEIVED

Backstein D: W.T. Aikens Award, Course/Program Development Category, University of Toronto, Ontario, Canada. 2010.

Gross AE: Meir Hospital Israel Medal of Merit Award. 2011.

Gross AE: The Frank Stinchfield Award 2011 from The Hip Society in recognition of pre-eminent excellence in the exposition and presentation of ‘Dislocation in Revision THA: Randomized Clinical Trial of 36/40mm vs 32mm Head.” 2011.
Division Of Plastic And Reconstructive Surgery

Dr. H.N. McKee  Professor

PUBLICATIONS


RESEARCH AND INVESTIGATIONS

Biochemical and cellular changes within the rat gastrocnemius muscle and calcaneal tendon post tenotomy. Do traumael injections make a difference? Agur A, Sauks K, McKee N, Koeberle P: Holistic Health Research Foundation of Canada, Canadian CAM Research Fund. [$4,858 2010-2011]

Division Of Urology

Dr. E.D. Grober  Assistant Professor
Dr. K. Jarvi  Professor (Division Head)
Dr. C.K. Lo  Assistant Professor
Dr. A. Zlotta  Professor

PUBLICATIONS


INVITED VISITS


Jarvi K: Centers for Disease Control and Prevention (CDC), USA, Atlanta, Georgia, USA, September 2010. Advancing men’s reproductive health in the United States: Current status and future directions meeting.


Lo KC: Life Quest Fertility Center, Toronto, Ontario, Canada, September 2010. Sperm DNA damage - Clinically relevant or waste of time.

Lo KC: American Society of Reproductive Medicine, Denver, Colorado, USA, October 2010. Stem cells in reproduction.
Lo KC: American Society of Andrology, Montreal, Quebec, Canada, April 2011. Are testicular sperm better than ejaculated sperm?


Zlotta A: American Urological Association, San Francisco, California, USA, 2010. (1) Comparison of molecular markers, sub-stage and the EORTC risk-score to predict clinical outcome of pT1 bladder cancer, (2) FGFR3 protein over-expression in the absence of a FGFR3 mutation is not associated with favorable disease characteristics in bladder cancer, (3) Is female gender a risk factor for absent detrusor muscle at transurethral resection of bladder tumor (TURBT)?, (4) Molecular markers show differences in biological potential per grade category for the WHO 1973 and 2004 classification systems. A large multi-center study with central pathology review in non-muscle invasive bladder cancer, (5) Patients with non primary pT1 nonmuscle invasive bladder cancer (NMIBC) treated with bacillus calmette-guerin (BCG) are at higher risk of progression compared to primary T1 tumors, (6) Surgeon-volume and outcome relation in transurethral resection of bladder tumour (TURBT), (7) T1G3 bladder cancer treated conservatively with BCG or with no BCG: Long-term follow up in 249 patients.


Zlotta A: McGill University, 10th Annual Canadian Senior Resident Urologic Oncology Course, Montreal, Quebec, Canada, October 2010. Use of intravesical therapy in non muscle invasive bladder cancer.


Zlotta A: Asociacion Espanola De Urologia, Rising Stars in Urology II, Grenada, Spain, March 2011. Hormonal therapy for prostate cancer and beyond: Why, how to and when to intervene?


Zlotta A: Canadian Urological Association (CUA), Montreal, Quebec, Canada, June 2011. Moderator of Poster Session 1 on Oncology – Prostate.

**RESEARCH AND INVESTIGATIONS**


Canadian Urological Association Scholarship. Grober E, Jewett MAS: Canadian Urological Association Scholarship Foundation. ($40,000 2009-2011)


Semien Proteomics - discovery of prostate cancer biomarkers. Lo KC, Jarvi K, Diamandis E: cy pres - (Judgement of the Honourable Mr. Justice John Brockenshire). ($600,000 2009-2014)


The past year has been a good one for the Department of Surgery at St. Joseph’s Health Centre. Despite the fiscal challenges facing all hospitals, St. Joseph’s Health Centre has been able to increase our volumes overall and the numbers of priority program cases.

The hospital became a centre of excellence in hepatobiliary surgery with the addition of Dr. Shiva Jayaraman in August 2009. Since that time, our HPB volumes have almost doubled and we have been recognized and given funding for this by Cancer Care Ontario.

In Thoracic surgery, Dr. Yaron Shargall left St. Joseph’s Health Centre in October 2010 to become the Head of the Division of Thoracic Surgery at St. Joseph’s Health Centre in Hamilton, Ontario. We were able to recruit Dr. Michael Ko, who joined us in November 2010. This allowed us to maintain our full compliment of three thoracic surgeons and therefore our level one status with Cancer Care Ontario.

The Bariatric program has continued to grow and we were able to perform approximately 180 gastric bypasses in the past year. This program has been highly successful and the plan is to grow it even further.

The teaching program within the department of surgery continues to increase in both resident and student numbers. The surgical faculty is very pleased with how this is going and would like to see more students coming to our institution as part of their core rotations in surgery.

**APPOINTMENTS AND PROMOTIONS**

Dr. Shiva Jayaraman joined the Division of General and Thoracic Surgery at St. Joseph’s in August 2010.

Dr. Michael Ko joined the Division of General and Thoracic Surgery at St. Joseph’s in November 2010.

**AWARDS**

Dr. Chris Compeau won the Ernie Spratt Award for teaching in the Division of General & Thoracic Surgery, St. Joseph’s Health Centre.

Dr. Michael Kliman won the Award for Resident Teaching in the Division of Orthopaedic Surgery, St. Joseph’s Health Centre.

Dr. Ron Levine won the Award for Resident Teaching in the Division of Plastic Surgery, St. Joseph’s Health Centre.

Dr. Umesh Jain won the Award for Resident Teaching in the Division of Urology, St. Joseph’s Health Centre.

**CONCLUSION**

Members of the Department of Surgery continue to work toward our vision of becoming the best community teaching hospital in Canada. We have residents and/or fellows in all of our surgical subspecialties and we continue to develop our teaching program.

Looking to the future, we plan to continue to provide excellence in teaching and clinical surgery.
Division Of General Surgery

Dr. C. Compeau  Assistant Professor
Dr. T.A. Harmantas  Assistant Professor
Dr. R.S. Hart  Lecturer
Dr. S. Jayaraman  Assistant Professor
Dr. D.R. Lindsay  Lecturer
Dr. L.C. Smith  Associate Professor
Dr. P.A. Sullivan  Lecturer

Division Of Orthopaedics

Dr. W.A. ElMaraghy  Assistant Professor
Dr. M. Kliman  Lecturer
Dr. M. Roscoe  Assistant Professor
Dr. G. Vincent  Assistant Professor
Dr. M. Wood  Lecturer

INVITED VISITS


HONOURS RECEIVED


Division Of Plastic Surgery And Reconstructive Surgery

Dr. C. Fielding  Lecturer
Dr. L. Kasrai  Assistant Professor (Division Head)
Dr. R.H. Levine  Professor
Dr. R.K. Wanzel  Assistant Professor

PUBLICATIONS


INVITED VISITS

Kasrai L: Craniofacial Society of Great Britain & Ireland Annual Conference, Guest Speaker, York, Great Britain, April 2011. Autogenous ear reconstruction.

Division Of Thoracic Surgery

Dr. M. Blitz          Assistant Professor
Dr. C. Compeau        Assistant Professor
                    (Division Head)
Dr. M. Ko            Assistant Professor

PUBLICATIONS


Division Of Urology

Dr. A. Chawla         Lecturer
Dr. U. Jain           Lecturer
Dr. A Marcuzzi       Lecturer (Division Head)
Dr. A. McLean        Lecturer
Academic year 2010-2011 was another exciting year for the Department of Surgery at St. Michael’s Hospital. After several years of anticipation, the Li Ka Shing Knowledge Institute’s completion and the move of Faculty into the building have been truly exhilarating. The Li Ka Shing Knowledge Institute is comprised of the Keenan Research Centre as well as the Li Ka Shing International Healthcare Education Centre. These two centres combined allows researchers, educators, and clinicians to work together to make new discoveries, generate novel therapies, develop innovative training programs, and helping translate knowledge into practice. Several of our researchers including Drs. Andras Kapus, John Marshall, Wolfgang Kuebler, Michael Cusimano, Tom Schweizer, Subodh Verma, Ori Rotstein, Avery Nathens and Katalin Szaszi have made the Li Ka Shing Knowledge Institute their new home for their research groups. This includes new “state of the art” research equipment in the Keenan Research Centre as well as the new Allan Waters Family Simulation Centre which is under the Medical Direction of Dr. Teodor Grantcharov.

In the spring we welcomed Dr. James Rutka as the new R.S. McLaughlin Professor and Chair position. Dr. Rutka has been a faculty member at the University of Toronto, Division of Neurosurgery for many years and is also the co-Director of the Arthur and Sonia Labatt Brian Tumor Research Centre at the Hospital for Sick Children. Our thanks to Dr. David Latter for his contributions as interim Chair prior to Dr. Rutka taking on his role. Dr. Ori Rotstein was appointed Associate Chair for the Department of Surgery at the University of Toronto. Dr. Rotstein completed his 10 years as Director of the Institute of Medical Science at University of Toronto. He has been honoured by this with a lectureship in his name: The Ori Rotstein Lecturer in Translational Research.

There were two new recruits to the Department. Dr. Sunit Das joins the Division of Neurosurgery from the University of Northwestern in Chicago. Dr. Das has a unique training background; he completed an undergraduate degree in literature and moved onto philosophy at Harvard where he decided to enter into neurosurgery. He completed his PhD at NIH, focusing his work on synaptic maturation and neural stem cell biology. Dr. Tony Moloney was recruited to the Division of Vascular Surgery. His expertise in endovascular surgery will add to the expertise of the division and the hospital. He is currently completing his Master’s degree in eHealth at McMaster University. As we move forward, the Department will be adding new faculty members to the Divisions of Vascular Surgery, Neurosurgery and General Surgery including trauma over the coming year.

On the education side, the St. Michael’s Hospital Physicians Teaching Awards were held in June; Dr. Melinda Musgrave won the Donald J. Currie Award for Undergraduate Education. Dr. Ralph George won the William Horsey Postgraduate Teaching Award. Dr. Tim Daniels won the Jameel Ali Continuing Education Award. At the University level, Dr. Subodh Verma was a co-recipient of the Dean A.L. Chute Award [The Silver Shovel] and Dr. Tim Daniels won the Orthopaedic Chairs teaching award. Dr. Subodh Verma was a co-recipient of the Dean A.L. Chute award for his teaching contributions to years 3 and 4 medical students. Drs Muller and Perrin both received teaching awards from the Squires-Hyland Trust. Over the past few years, we have initiated the popular ‘Pizza with the Professor’ sessions, these sessions give our 3rd year clerks the ability to chose and present a case they’ve seen while on rotation, gaining feedback from faculty members and experience in presentation skills. Many new exciting sessions are being implemented for the upcoming academic year.

Thanks to Dr. Rob Stewart for his leadership in undergraduate education. At the Annual Faculty Development event, Dr. Tim Daniels welcomed Dr. Bryce Taylor to speak about “Issues in Medical Leadership”. This annual program coordinated by Dr. Daniels has covered a range of faculty issues including communication, leadership, presentation styles and ethical issues in surgery. It is with pride of accomplishment to state that our faculty and residents have helped to move forward our education and research programs in a most exemplary manner and in addition have exhibited their ongoing commitment to providing compassionate care to our patients.
Division Of Cardiac Surgery

Dr. D. Bonneau  Associate Professor
Dr. LE. Errett  Professor
Dr. D.A. Latter  Associate Professor (Division Head)

Dr. M.D. Peterson  Assistant Professor
Dr. S. Verma  Associate Professor

PUBLICATIONS


INVITED VISITS


Peterson M: Canadian Cardiovascular Congress, Montreal, Quebec, Canada, October 2010. Population characteristics and final disposition for patients referred to a focused transcatheter aortic valve implantation clinic.


RESEARCH AND INVESTIGATIONS

Comparison of the inflammatory response to cardiopulmonary bypass between South Asians and Caucasians. Trop S, Verma S: Physicians’ Services Incorporated Foundation. ($20,000  2009-2011)

DJ-1 in signaling in human cardiac ischemia reperfusion. Yanagawa B, Verma S: Physicians’ Services Incorporated Foundation. ($20,000  2010-2012)


Li Ka Shing collaborative program. Verma S, Slutsky A, Mamdani M: Li Ka Shing Collaborative Program. ($3,000,000  2009-2012)

Neuregulin-1 as a novel treatment for endothelial dysfunction and atherosclerosis. Verma S, Heart & Stroke Foundation. ($160,000  2009-2011)

Neuregulin and endothelial function. Tang GHL, Verma S: Physicians’ Services Incorporated Foundation. ($20,000 2010-2011)


Role of the tumor suppressor gene BRCA 1 in adverse cardiac remodeling. Verma S, Parker TG: Canadian Institute of Health Research. [$330,367  2009-2012]


Traineeship in Atherosclerosis Program. Verma S: Canadian Rx&D companies. [$3,000,000  2006-2010]


HONOURS RECEIVED

Verma R: Canada Research Chair in Atherosclerosis (Tier 2). 2010.

Verma R: Howard Morgan Award from the International Academy of Cardiovascular Sciences. 2010.
Division Of General Surgery

Dr. N. Ahmed  Associate Professor
Dr. J. Ali  Professor
Dr. N. Baxter  Associate Professor
Dr. J.M.A. Bohnen  Professor
Dr. M.J. Burnstein  Associate Professor
Dr. R.L. George  Associate Professor
Dr. T. Grantcharov  Associate Professor
Dr. A. Kapus  Professor
Dr. S. Kitto  Assistant Professor

Dr. J. Koo  Associate Professor
Dr. W.M. Kuebler  Associate Professor
Dr. B. Lawless  Assistant Professor
Dr. J.C. Marshall  Professor
Dr. R.A. Mustard  Associate Professor
Dr. A.B. Nathens  Professor (Division Head)
Dr. O.D. Rotstein  Professor
Dr. K. Szaszi  Assistant Professor

PUBLICATIONS


INVITED VISITS


Ali J: The American Association for the Surgery of Trauma, Boston, Massachusetts, USA, September 2010. Journal of Trauma editorial board meetings.

Ali J: American College of Surgeons, Committee on Trauma, Washington, District of Columbia, USA, October 2010. Presentation of revised TEAM program for medical students to international ATLS meeting.

Baxter N: Northwest Society of Colon and Rectal Surgeons, Annual Meeting, San Jose, California, USA, August 2010. Do we need a rectal cancer surgery checklist?

Bohnen J: Credit Valley Hospital Medical Advisory Committee, University appointments for community physicians, Mississauga, Ontario, Canada, February 2011.

Bohnen J: Trillium Health Centre Medical Advisory Committee, University appointments for community physicians, Mississauga, Ontario, Canada, February 2011.


Kitto S: Cancer Care Ontario, HPB Expert Panel and Community of Practice Meeting, Toronto, Ontario, Canada, October 2010. Presenter: Enhancing the HPB community of practice.


Kitto S: Karolinska Institutet, PhD Workshop, Stockholm, Sweden, March 2011. (1) Online education in health and medical sciences teaching environments: Cautionary tales of teaching, learning and assessment, (2) Triangulation of qualitative research methods in medical education research.

Kitto S: Maastricht University, 13th Annual Educational Congress, Amsterdam, March 2011. Presenter: (1) Triangulation of qualitative research methods in medical education research, (2) Rigour in qualitative research: Issues to consider in medical education research.


Kitto S: Faculty Development in the Health Professions, Toronto, Canada, May 2011. Investigating the perceptions, attitudes and beliefs of staff anaesthetists related to multi-source feedback used for their performance appraisal.


Kuebler W: European Society of Cardiology, Fronties in Cardiovascular Biology, First Congress of the Council on Basic Cardiovascular Science, Berlin, Germany, July 2010. Cytoskeletal remodelling and impaired endothelial Ca2+ signaling in pulmonary hypertension.

Kuebler W: German Society for Microcirculation and Vascular Biology, Annual Conference, Berlin, Germany, July 2010. Hypoxic pulmonary vasoconstriction - is there a role for the endothelium?


**Kuebler W:** University of Chicago, Committee on Cell Physiology Seminar Series, Chicago, Illinois, USA, February 2011. Lung vascular barrier regulation - interdependency of NO and TRP channels.

**Kuebler W:** University of Denver, Research Methods in Cardiopulmonary Disease Seminar Series, Denver, Colorado, USA, February 2011. Real time microscopy in the intact lung.

**Kuebler W:** Experimental Biology, Washington, District of Columbia, USA, March 2011. (1) Endothelial apoptosis promotes lung tissue remodeling via activation of matrix metalloprotease, (2) Interplay between NO and TRP channels in lung vascular barrier regulation.

**Lawless B:** Respiratory Therapy Society of Ontario, Toronto, Ontario, Canada, September 2010. The role of respiratory therapists in an integrated model of critical care.

**Lawless B:** Ministry of Health and Long-Term Care, Innovation Showcase, Toronto, Ontario, Canada, November 2010. Chair, Critical Care and Emergency Medicine Panel and Presentations.


**Marshall J:** 50th Interscience Conference on Antimicrobial Agents and Chemotherapeutics, Boston, Massachusetts, USA, September 2010. Risk stratification in sepsis: The PIRO concept.

**Marshall J:** Feinstein Institute, Merinoff Symposium/Global Sepsis Alliance Inaugural Meeting, Manhasset, New York, USA, September 2010. Sepsis as a complication of other illness.


**Marshall J:** Montebello Roundtable on Complexity and Variability at the Bedside, Chateau Montebello, Quebec, Canada, September 2010. Iatrogenesis in the ICU: The interface between complex patients and simple technologies.

**Marshall J:** Changhai Hospital, Department of Anesthesiology and Intensive Care, Shanghai, China, October 2010. Visiting Professor: (1) InFACT: A global collaboration for critical care research, (2) Sepsis research: How can it be improved?

**Marshall J:** European Society of Intensive Care Medicine, 23rd Annual Congress, Barcelona, Spain, October 2010. (1) Building a research team, (2) Successful grant writing, (3) The concept of the run-in trial, (4) Should sepsis bundle be mandated?, (5) Manipulation of the host response in sepsis is harmful: Con.


**Marshall JC:** Xijing Hospital/Fourth Military Medical University, Xi’an, China, October 2010. Visiting Professor: The multiple organ dysfunction syndrome: Complex biology and complicated patients.

**Marshall J:** Critical Care Canada Forum, Toronto, Ontario, Canada, November 2010. (1) Sepsis research: Seven lessons from oncology, (2) PIRO: What is the status of clinical staging of critical illness?, (3) InFACT: Promoting global collaboration in critical care research.

**Marshall J:** Society of Critical Care Medicine, 40th Annual Congress, San Diego, California, USA, January 2011. Toll-like receptors: Recognizing danger in the innate immune system.


**Marshall J:** University of Pittsburgh School of Medicine, Department of Critical Care Medicine, Pittsburgh, Pennsylvania, USA, February 2011. Visiting Professor: (1) The caspase-8 survivalsome: Mechanisms of prolonged neutrophil survival in trauma and sepsis, (2) Catalyzing global collaboration in critical care research: The InFACT H1N1 initiative.


**Marshall J:** 8th National Congress on Advances in Anesthesiology and Resuscitation, Shanghai, China, March 2011. Sepsis: From basic biology to clinical management.

Marshall J: Korean Society of Critical Care Medicine (KSCCM), 31st Annual Conference/11th Joint Congress with JSCCM, Seoul, Korea, April 2011. (1) Severe H1N1 infection: An international perspective, (2) What have we learned from the H1N1 pandemic?, (3) Sepsis: Current therapy future prospects.


Nathens A: XXXVI National Congress in Surgery, Bogota, Colombia, July 2010. (1) What’s new in the management of intra-abdominal infection?, (2) Out with the old and in with the new? Evolving concepts in surgical site infection, (3) The ACS Trauma quality improvement program.

Nathens A: American Association for the Surgery of Trauma, Boston, Massachusetts, September 2010. Presentations: (1) Successful rescue of patients with serious complications: A characteristic of high performing trauma centers, (2) Variations in practice patterns of duplex ultrasound screening for deep vein thrombosis (DVT) in asymptomatic trauma patients: A recipe for disaster in benchmarking hospital quality, (3) Posts: (a) Comparison of hospital performance in trauma versus emergency and elective general surgery: Implications for acute care surgery quality improvement, (b) Effect of Trauma center Status on 30-day Outcomes after Emergency General Surgery, (4) Make up your mind: Regional variations in recognizing the need to transfer severely injured patients, (5) Ranking the factors affecting longterm functional outcomes after trauma: An application of structural equation modeling, (6) Peer-Reviewed Papers: (a) Successful rescue of patients with serious complications: A characteristic of high performing trauma centers, (b) Variations in practice patterns of duplex ultrasound screening for deep vein thrombosis (DVT) in asymptomatic trauma patients: A recipe for disaster in benchmarking hospital quality.


Rotstein OD: University of Manitoba, Faculty of Medicine, Resident and Fellow Research Day, Winnipeg, Manitoba, Canada, June 2011. A career as a clinician-scientist: On the verge of extinction or on the road to recovery?

RESEARCH AND INVESTIGATIONS

A feasibility study examining referral to community-based youth violence interventions for youth injured violence. Nathens A: Canadian Institutes of Health Research (CIHR). ($99,838 2010-2011)


Access to trauma care in Canada: A national comparison. Fowler RA, Nathans A: Canadian Institutes of Health Research (CIHR). ($92,500 2008-2011)


Assessing care of patients with major traumatic injuries. Bashaw SM; Baillie FG, Flemons WW, Ghalli WA, Hameed SM, Morrison LJ, Tallon JM, Travers AH, Turgeon AF, Avery N: Canadian Institutes of Health Research Grant. ($125,234 2008-2011)


Canada Research Chair in Trauma Systems Development. Nathens A: Canadian Institutes of Health Research (CIHR). ($500,000 2006-2011)


Characterization of the cardiac phenotype and experimental therapeutic approaches in animal models. Tschoepe C, Kuebler WM, Riad A: Deutsche Forschungsgemeinschaft (German Research Foundation). ($360,000 2008 - 2012)

CIHR emerging team: Colorectal cancer screening. Rabeneck L, Dobrow P, Ritvo S, Baxter N: Canadian Institutes of Health Research. ($1,735,300 2008-2013)


Crosstalk between the EGF and TNF receptors in kidney tubular cells. Szaszi K: Kidney Foundation of Canada. ($100,000 2009 - 2011)


Development of interfacility transfer criteria for major trauma. Nathens A: St. Michael’s Hospital Medical Services Association. ($33,750 2010 – 2011)


Establishing stakeholder research priorities for measuring the quality of trauma care. Gruen S, Straus S, Nathens A: Canadian Institutes of Health Research (CIHR). ($19,984 2010-2011)


Fate-determining mechanisms in the epithelium during fibrogenesis: The role of cell contacts. Kapus A, Heinz B: Canadian Institutes of Health Research. ($646,490 2010 - 2015)


From data to daily practice: An integrative approach to improving trauma centre access in rural regions. Gagliardi A, Nathens A: Canadian Institutes of Health Research. ($110,000 2010 – 2012)


Planning meeting for the PRECISE Phase III Resuscitation Trial. McIntyre L, Marshall, JC: Canadian Institutes of Health Research. ($12,500 2010)

Pulmonary embolism: Methodology, epidemiology & treatment in critical care study (PE-METRICS). Cook DJ, Marshall JC: Heart and Stroke Foundation of Canada. ($41,653 2010 - 2011)


Regulation of vascular permeability by sphingolipids. Kuebler WM, Uhlig S: Deutsche Forschungsgemeinschaft (German Research Foundation). ($145,000 2010 - 2013)


Structures and processes of care in colorectal cancer surgery (SPoCCS) study. Urbach DR, Baxter NN, Simunovic M, Gagliardi A: Canadian Institutes of Health Research. ($1,084,151 2008 – 2013)

Team in training for trauma: Developing an interdisciplinary, simulation-based human factors training curriculum for general surgery residents. Ahmed N, Hicks M: University of Toronto. ($6,825 2010 - 2011)
The Canadian Pandemic Research Preparedness Strategy: Steps towards a global ICU network to identify and characterize severe emerging respiratory infections, and build research capacity to rapidly respond to pandemic threats. Marshall JC, Burns K: Public Health Agency of Canada. ($228,000 2011)

The Collaborative H1N1 Adjuvant Therapy (CHAT) Trial: Rosuvastatin versus placebo as adjuvant therapy for severe H1N1 infection. Marshall JC, Burns KEA, Smith OM, Chant C, Rubenfeld G, Fowler RA: Canadian Institutes of Health Research. ($200,000 2009 - 2010)


The effect of screening colonoscopy use by primary care physicians on colorectal cancer incidence and mortality. Urbach DR, Baxter NN: Canadian Institutes of Health Research. ($89,000 2009 – 2011)


The young adult survivors of cancer study. Baxter NN: Canadian Institutes of Health Research. ($351,000 2009 – 2011)


Vasodilatory effect of RO50244118 in the pulmonary circulation. Kuebler WM: Hoffmann-LaRoche Inc. ($80,000 2009 - 2010)


**HONOURS RECEIVED**

**George RL:** William Horsey Postgraduate Teaching Award. June 2011.

**Lawless B:** Innovation in Leadership Award, University of Toronto, Health Policy, Management and Evaluation. October 2010.

**Marshall JC:** Specialized Complex Care Award, Discovery of Innovation, St. Michael’s Hospital. January 2011.
Division Of Neurosurgery

Dr. M.D. Cusimano  Professor  
Dr. S. Das  Assistant Professor  
Dr. H.J. Ginsberg  Assistant Professor  
Dr. R.L. Macdonald  Professor (Division Head)  
Dr. P.J. Muller  Professor  
Dr. R.G. Perrin  Associate Professor  
Dr. T.A. Schweizer  Assistant Professor  
Dr. J.S. Spears  Assistant Professor

PUBLICATIONS


INVITED VISITS


Macdonald RL: American Heart Association/American Stroke Association, International Stroke Conference, Magnesium and Aneurysmal Subarachnoid Hemorrhage Session, Los Angeles, California, USA, February 2011. Vasospasm basic research: What have we learned in the past decade and why is magnesium of interest?


Macdonald RL: American Association of Neurological Surgeons, 79th Annual Meeting, Denver, Colorado, USA, April 2011. (1) SAH induced changes in microglia and the impact on capillary function, (2) Diagnosis of delayed cerebral ischemia.

Perrin RG: Canadian Spine, Annual Meeting, Quebec City, Quebec, Canada, March 2011. Chair for Submitted Papers.


RESEARCH AND INVESTIGATIONS

Analysis of CONSCIOUS-1 Database. Macdonald RL: Actelion Pharmaceuticals. ($65,000  2009 - 2010)


Driving after stroke. Schweizer T: Heart and Stroke Foundation of Ontario, Centre for Stroke Recovery. ($25,000  2011 - 2013)

Effect of bilateral scalp nerve blocks on post-operative pain and discharge times in patients undergoing supratentorial craniotomy and general anesthesia. Rigamoni A, Cusimano MD: The Physicians’ Services Incorporated. ($120,000  2009 – 2011)


ENOS uncoupling as a potential target for treatment of delayed cerebral ischemia after subarachnoid hemorrhage. Macdonald RL, Sabri M: Brain Aneurysm Foundation. ($10,000 2010 - 2012)


Long-term potentiation after subarachnoid hemorrhage in rats. Macdonald RL: Institute of Medical Sciences. ($4,000 2011)


Neurocognitive, neuroimaging and functional profile of patients after aneurysmal subarachnoid hemorrhage. Macdonald RL, Schweizer T, Sherwin CL: Brain Aneurysm Foundation. ($15,000 2009 - 2010)


Platelet microthromboemboli, glutamate and brain injury after subarachnoid hemorrhage. Macdonald RL: Canadian Stroke Newtwork. ($7,000 2011)

Research start-up grant. Schweizer TA: St. Michael's Hospital. ($18,000 2007 - 2010)

Spineous process less invasive extendable (SPLINE) fusion - A less invasive extendable device for posterior spinal fusion. Ginsberg H, Whyne C, Singh D: MaRS Innovation - declined ($50,000 2010 - 2011)


Subarachnoid nimodipine treatment for vasospasm. Macdonald RL: New Jersey Commission on Science and Technology Edison Innovation Research and Development Fund, Co-Investigator, Chief Scientific Officer, Edge Therapeutics, Inc. ($500,000 2009 - 2012)

Team grant in traumatic brain injury and violence. Cusimano MD, Schweizer TA, Mann R, Tator C: Canadian Institutes of Health Research [CIHR]. ($1,733,131 2010 - 2015)

The fractionation and localization of attentional and language processing in the cerebellum. Stuss DT, Alexander MP, Schweizer T, Cusimano M: Canadian Institutes of Health Research. ($270,444 2006 - 2010)


HONOURS RECEIVED

Muller PJ: Squires-Hyland Trust Teaching Award, November 2010.

Perrin RG: Squires-Hyland Trust Teaching Award, September 2010.

Schweizer TA: Ontario Ministry of Research and Innovation Early Researcher Award, June 2011.
Division Of Orthopaedics

Dr. H. Ahn  Assistant Professor  Dr. M.D. McKee  Professor
Dr. E.R. Bogoch  Professor  Dr. E.H. Schemitsch  Professor (Division Head)
Dr. T.R. Daniels  Associate Professor  Dr. J.P. Waddell  Professor
Dr. J. Hall  Assistant Professor  Dr. D.B. Whelan  Assistant Professor

PUBLICATIONS


INVITED VISITS

Ahn H: Canada Medical Education, Canadian Orthopaedic Resident Trauma Review Course (CORR Trauma), Toronto, Ontario, Canada, November 2010. Podium Presentation: (1) Cervical spine trauma management, (2) Thoracolumbar trauma management.


Bogoch ER: Ajou University School of Medicine, Dr. Ye-Yeon Won, Seoul, Republic of Korea, April 2011. Fracture secondary prevention through fracture risk assessment in the orthopaedic clinic: Worldwide initiatives and considerations in Korea.

Bogoch ER: All India Institute of Medical Sciences, Dr. Rajesh Malhotra, New Delhi, India, April 2011. Fracture secondary prevention through fracture risk assessment in the orthopaedic environment.


Bogoch ER: Chung-Ang University College of Medicine, Dr. Yong-Chan Ha, Seoul, Republic of Korea, April 2011. Fracture secondary prevention through fracture risk assessment in the orthopaedic clinic: Worldwide initiatives and considerations in Korea.


Bogoch ER: Yonsei University College of Medicine, Dr. Kyu Hyun Yang and Dr. Seung Hwan Moon, Seoul, Republic of Korea, April 2011. Fracture secondary prevention through fracture risk assessment in the orthopaedic clinic: Worldwide initiatives and considerations in Korea.

Daniels TR: American Orthopaedic Foot and Ankle Society (AOFAS), 26th Annual Summer Meeting/Summer Course: Innovations in Foot and Ankle Surgery – The Future is Here, National Harbor, Maryland, USA, July 2010. Guest Faculty/Moderator: (1) Bone graft substitutes: Biology, science and clinical care, (2) Grafting for foot and ankle arthrodesis: substitutes are best!

Daniels TR: BioMimetic Therapeutics Satellite Symposium, National Harbor, Maryland, USA, July 2010. North American Foot and Ankle Pivotal Trial: An in-depth look at the study design, key endpoints and the implications for future work; e.g. CT as a new standard for evaluation fusion.

Daniels TR: Australian Shoulder and Elbow Society, 2010 Surgical Specialties: Controversies in Foot & Ankle Surgery, Gold Coast, Queensland, Australia, August 2010. (1) Prospective RCT comparing augment bone graft [rhPDGF-BB] with autologous bone graft in foot and ankle fusions, (2) Video on the double fusion [talonavicular + subtalar joints], (3) Outcomes of the pivotal biomimetics trial with practical applications, (4) TAR in valgus deformities, (5) Difficult TARs.


McKee MD: The Technical Cooperation Program (TTCP), Combat Casualty Care, St. Petersburg, Florida, USA, August 2010. COTS; prospective research in the trauma environment.

McKee MD: Foundation for Orthopaedic Research and Education (FORE), Annual Current Solutions in Orthopaedic Trauma, Ft Lauderdale, Florida, USA, October 2010. (1) Clavicle nonunions, (2) Supracondylar fractures in the elderly, (3) Proximal humeral fractures: Fix or replace, (4) BMP’s: What is the future?


McKee MD: Orthopaedic Trauma Association (OTA), Annual Specialty Day Meeting, San Diego, California, USA, February 2011. Intra-articular fractures of the upper extremity


Schemitsch E: Rubin Institute for Advanced Orthopaedics, Sinai Hospital of Baltimore, 4th Annual Hip Joint Course, Baltimore, Maryland, USA, August 2010. (1) Custom blocks for hip resurfacing, (2) Comparison studies of total hip arthroplasty and resurfacing.


Waddell JP: Societe Internationale de Recherche en Orthopedie et Traumatologie/Societe Internationale de Chirurgie Orthopedique et de Traumatologie (SICOT/SIROT), 7th Annual International Conference, ARTOF Symposium, Gothenburg, Sweden, September 2010. Moderator of Foot and Ankle Session/Trauma - Proximal femoral fracture session: Prosthetic replacement after femoral neck fracture - Total or hemiarthroplasty?


RESEARCH AND INVESTIGATIONS

A multicentre, randomized trial of conservative treatment versus operative plate fixation for acute, displaced fractures of the distal clavicle. Hall JA, McKee MD, Schemitsch EH: The Physicians Services Incorporated (PSI). ($110,000 2010 - 2012)

A multicentre, randomized trial of simple decompression vs anterior transposition of the ulnar nerve for acute displaced fractures of the distal humerus treated with plate fixation. Schemitsch EH, McKee MD: Orthopaedic Trauma Association. ($78,630 2010 – 2012)

A prospective randomized non-inferiority study to evaluate the safety and effectiveness of Cartiva synthetic cartilage implant in the treatment of first metatarsophalangeal joint osteoarthritis as compared to a control [M.O.T.I.O.N. study]. Daniels TR: Carticept Medical. ($65,000 2010 - 2011)


A randomized Evaluation of Emergent immobilization in External Rotation in the management of Acture interior Dislocations of the Shoulder (EERAADS). Whelan DB, Holty R: American Shoulder and Elbow Surgeons. ($20,000 2010 - 2012)

A randomized trial of cannulated screws vs sliding hip screws for femoral neck fractures. FAITH Investigators, Steering Committee, Schemitsch E: Canadian Institutes of Health Research (CIHR). ($1,780,737 2010 – 2014)

Ankle arthroplasty and ankle arthrodesis - Prospective gait analysis compared to controls. Daniels TR, Singer S, Kleijman S, Pinsker E, Khan R: Canadian Orthopaedic Association/Canadian Orthopaedic Residents Association (COA/CORA): BioMimetic Therapeutics Foot and Ankle Travel Award. ($3,000 2009 - 2010)

Augment Injectable Pivotal Trial. Daniels TR: BioMimetics. ($150,000 2009 - 2010)

Biomechanical properties of hydroset with and without tobramycin in the augmentation of lateral tibial plateau fractures. Ahn H, Schemitsch E: Stryker USA ($20,000 2009 - 2010)


Gait analysis of total ankle replacement patients. Daniels TR: Integra Life Sciences. ($3,000 2010)


Implementation and evaluation of collaborations between SHSC, AHSCs, Criticall and the LHIN in spinal care: A demonstration study to enhance acute spinal triage and patient care. Ahn H, Ginsberg H, Ee A, Fehlings M: Ministry of Health Innovation Fund ($60,000 2010)


Microfracture technique and its effectiveness for osteopenic vs sclerotic bone. Whelan DB, Marks P, Theodoropoulos J, Hurtig M: Canadian Arthritis Network. ($240,000 2009 - 2011)


Osteoporosis Exemplary Care Program. Bogoch ER: Alliance for Better Bone Health. ($20,000 2010).

Osteoporosis Exemplary Care Program Research Funding. Bogoch ER: Amgen Canada ($10,000 2010 - 2011)

Prevalence of abuse and intimate partner violence surgical evaluation. Praise Investigators, Steering Committee, Schemitsch E: Canadian Orthopaedic Foundation. ($20,000 2010 – 2011)


Setting a new benchmark for collaborative trials in trauma: The rationale, design, and execution of the study to prospectively evaluate intramedullary nails in tibial shaft fractures. SPRINT Investigators, Steering Committee, Schemitsch E: Kappa Delta Award. ($20,000 2010 – 2011)

The effect of late type endothelial progenitor cells on augmentation of angiogenesis and osteogenesis in a segmental bone defect model. Schemitsch EH, Li R: Orthopaedic Trauma Association. ($25,000 2010 – 2012)

Treatment of hallux rigidus: fusion or hemiarthroplasty - randomized trial. Daniels TR, Khan R: Carticept Medical ($10,000 2011).

What is the fracture patient’s role in receipt of osteoporosis investigation and treatment? Sale J, Beaton DE, Bogoch ER, Gignac MA, Hawker GA, Jaglal SB, Meadows LM: Canadian Institutes for Health Research (CIHR). ($60,000 2010 - 2011)

HONOURS RECEIVED

Daniels TR: Jameel Ali Continuing Education Award, June 2011.

Daniels TR: Orthopaedic Chair’s Teaching Award - for contributions to orthopaedic education | selected by the residents fo the Division of Orthopaedics, Department of Surgery, University of Toronto, April 2011.


Whelan D: American Orthopaedic Society for Sports Medicine (AOSSM) Travelling Fellowship Program (3 orthopaedic sport medicine surgeons selected annually for scientific and cultural exchange to Europe, Asia-Pacific or Latin America.) 2010.
Division Of Plastic And Reconstructive Surgery

Dr. J.L. Mahoney  Professor (Division Head)
Dr. M. Musgrave  Assistant Professor

PUBLICATIONS


INVITED VISITS


RESEARCH AND INVESTIGATIONS

Development of a diabetic foot website. Mahoney J, Sargeant R: J.P. Bickell Foundation. ($20,000 2011]


HONOURS RECEIVED

Mahoney JL: 2nd place, Young Investigators Award at the Society of Advanced Wound Care for: A needs Assessment of Intervention to Reduce the Risk of Wound Complications Following Saphenous Vein Harvesting, April 2011.

Musgrave MA: Donald J. Currie Award for Undergraduate Education, June 2011.

Musgrave MA: Nominee, FitzGerald Academy Award Clerkship Teacher Award, May 2011.

Musgrave MA: Nominee, FitzGerald Academy Master Teacher Award, May 2011.
Division Of Urology

Dr. R.J.D. Honey  Professor (Division Head)
Dr. K.T. Pace  Associate Professor
Dr. R.J. Stewart  Assistant Professor

PUBLICATIONS


INVITED VISITS


Pace KT: Canadian Urological Association, 4th Annual Course on Basic and Advanced Urology Laparoscopy Skills, Montreal, Quebec, Canada, June 2011. (1) Entering the hostile abdomen and dealing with intra-operative complications, (2) Robotic-assisted partial nephrectomy: Tips and tricks.

RESEARCH AND INVESTIGATIONS

A randomized, double-blinded placebo-controlled trial of alfuzosin [Xatral] following shock wave lithotripsy for renal and ureteric calculi (Investigator-initiated multi-centred randomized clinical trial). 

Pace KT, Honey RJ: Sanofi-Aventis. ($100,000 2009 - 2011)

The Canadian StoneBreaker Trial: A randomized, multicentre trial comparing the LMA stonebreaker and the Swiss LithoClastR during percutaneous nephrolithotomy. Chew B, Honey RJ, Pace KT: LMA Urology USA. ($13,000 2009 - 2011)


HONOURS RECEIVED


Pace KT: Best Poster at the American Urological Association Annual Meeting, Northeast Section, in Session [MP2 and MP3]. September 2010.


Pace KT: Best Endourology Presentation, Canadian Endourology Group, at the Canadian Urological Association Annual Meeting in Montreal, Quebec. June 2011.

Pace KT: Five Star Best Poster in session at the Canadian Urological Association Annual Meeting in Montreal, Quebec. June 2011.

Pace KT: Second Prize, Fellow Presentation (Clinical Category) at the Annual Charles Robson Research Day. April 2011.

Pace KT: University of Toronto, Urology Residents Clinical Teaching Award. June 2011.

Stewart RJ: Postgraduate Teaching Award, Division of Urology, University of Toronto. May 2011.
Division Of Vascular Surgery

Dr. F.M. Ameli  Associate Professor
Dr. V.M. Campbell  Assistant Professor
Dr. A.G. Lossing  Associate Professor
Dr. W. Tanner  Assistant Professor

INVITED VISITS

Lossing AG: Gore, Endoluminol AAA Conference, San Francisco, California, USA, November 2010.

RESEARCH AND INVESTIGATIONS

Fistula maturation study. Donnelly S, Muradali D, Campbell V: Innovation funds. [$73,500 2010 - 2012]
During 2010 – 2011 the M Wing expansion was completed and the Women and Babies Program was repatriated to the Bayview site. An updated Strategic Plan was adopted by the Board, and our Hospital benefited from an increment in its critical care capacity. The Department continued to benefit from incremental wait time funding and remained well-aligned with the Institution’s strategic focus. The “Drive to 95 (percent occupancy)” began to reduce occupancy to acceptable levels allowing the more reliable provision of surgical care. The Department continued to benefit from recruitment in strategic areas in a challenging resource environment.

NEW STAFF
Nick Phan was appointed as a Surgeon-Investigator in the Division of Neurosurgery with special interest in neuro traumatology. Laura Snell was appointed as a Surgeon-Investigator with special interest in breast reconstruction, having received a Master’s degree in Clinical Research Methods from Columbia University. Sunnybrook welcomed Joan Lipa back from UCLA in the Division of Plastic Surgery as a Surgeon-Investigator to augment our breast reconstruction capability. Giuseppe Papia joined the Division of Cardiac and Vascular Surgery and the Department of Critical Care Medicine as a Surgeon-Teacher with special interest in minimally invasive vascular reconstruction, patient safety and quality assurance.

RETIREMENTS AND SABBATICALS
Robin Richards completed a ten-year term as Chair of the Departmental Promotions Committee. Richard Holby stepped down as Chair of the Health Records committee. Andy Smith announced his intention to step down as Head of the Sunnybrook Division of General Surgery.

APPOINTMENTS AND PROMOTIONS
Lesley Carr was promoted to Associate Professor in recognition of her contributions to female urology. Vasu Venkateswaran was promoted to Associate Professor for her contributions to our understanding of the pathobiology of prostate cancer and its prevention. Oleh Antonyshyn was promoted to full professor in recognition of his pioneering contributions to craniofacial reconstruction. Ron Kodama was promoted to full professor for his contributions to education and expertise in urethral reconstruction. Andy Smith was promoted to full professor for his work in knowledge translation and the treatment of colo-rectal cancer. Markku Nousiainen, Andrew Dueck and Natalie Coburn had successful Continuing Appointment Reviews. Calvin Law was appointed leader of the Gastrointestinal Site Group of the Odette Cancer Centre. Andy Smith was appointed Chief of the Odette Cancer Centre and Regional Vice President of Cancer Care Ontario. Robert Maggisano was appointed as the Inaugural Maggisano Chair in Vascular Surgical Research. Homer Tien was promoted to the rank of Colonel in the Canadian Armed Forces.

Calvin Law was appointed as the inaugural recipient of the Hanna Family Research Chair in Surgical Oncology. Gideon Cohen was appointed Program Director in the University Division of Cardiac Surgery. Sender Herschorn was appointed Chair of the Departmental Promotion Committee. Markku Nousiainen was appointed Associate Program Director for the University Division of Orthopaedic Surgery with responsibility for the Division’s competency-based curriculum.

DIVISION OF CARDIAC AND VASCULAR SURGERY

The Division focused its activities on long-term outcome studies following valve replacement and cardiac revascularization, minimally invasive interventions, educational research and patient safety. Bernie Goldman remains active as the Chair of the MOHLTC Working Group on Stand Alone Angioplasty and a CPSO Surgical Panel.

DIVISION OF GENERAL SURGERY

Division members work in the fields of surgical oncology or trauma care. All Division members contribute to the acute care service which provides a positive learning environment for trainees and excellent continuity of care for patients. The Division’s academic interests include the determinants of outcome following surgical intervention for abdominal malignancy, innovative imaging techniques for the management of breast cancer, the role of transfusion in the management of trauma and the development of standardized protocols for surgical management. Natalie Coburn hosted an international study group of experts in gastric cancer in order to develop a consensus document. Homer Tien continued to lead the trauma program and Sandro Rizoli directed research in the Trauma, Emergency and Critical Care Program.
DIVISION OF NEUROSURGERY

The Division provides support for the trauma, cancer and brain science programs. A cooperative program with Imaging optimizes treatment for patients with intracerebral aneurysms.

DIVISION OF ORTHOPAEDICS

This large Division has interests in joint replacement, the management of orthopaedic trauma, the provision of spine care and soft tissue reconstruction. A surgical program funded by the WSIB was initiated at the Holland Centre for patients with shoulder, elbow, hip and knee problems. Albert Yee and Cari Whyne presented at University Rounds regarding their multidisciplinary research into the use of photodynamic therapy for the abatement of vertebral metastases. Paul Marks supervises a research program with peer review funding studying the factors contributing to the development of arthropathy following knee injury.

DIVISION OF PLASTIC AND RECONSTRUCTIVE SURGERY

Division members focus their activities in the areas of burn care, craniofacial deformity and trauma, and hand trauma. The Division looks forward to full staffing of the Ross Tilley Burn Centre and the outcome of the verification visit by the American Burn Association. The Division welcomed the enhanced ability to provide breast reconstruction afforded by the recruitment of Drs. Snell and Lipa.

DIVISION OF UROLOGY

The Division focuses its activities on urologic oncology, including survivorship issues, female urology and urethral reconstruction. Sender Herschorn continued as Chair of the University Division and Laurie Klotz was Chair of the World Uro Oncology Federation and Editor-in-Chief of the Canadian Urological Association Journal. The members of the Division travel extensively as visiting professors.

RESEARCH ACTIVITY AND AWARDS

Marc Jeschke received new research funding from the Physicians’ Services Incorporated (PSI) Foundation for a clinical trial investigating the effect of glucose modulation in severely burned patients. Marc Jeschke and Homer Tien received funding from the Canadian Armed Forces for the development of an artificial skin to treat burn patients. Rob Nam’s collaborative research group received a CIHR Emerging Team Grant in Regenerative Medicine and Nanomedicine to study microchip-based devices for the analysis of circulating prostate cancer markers.

OTHER AWARDS AND ACTIVITIES

Reviewers from the American Burn Association visited the Ross Tilley Burn Unit as part of an application by Sunnybrook for verification. If successful Sunnybrook would become only the second Institution outside the United States to receive such recognition.

Homer Tien and David Stephen received Marvin Tile Distinguished Service Awards. Robin Richards, Terry Axelrod and Gideon Cohen sat on the Board of ACMS. Albert Yee co-ordinated the second University Divisional Orthopaedic Fellowship Day. Joseph Schatzker gave the keynote address at this event. Bob Maggisano and Marv Tile were recognized by the Board for their 30 and 45 years of service respectively to Sunnybrook.

Sunnybrook surgeons value the support of the Institution in creating a rich surgical environment for the provision of patient care, teaching and research. Department members also appreciate the opportunities to provide leadership roles in our University Department and our Faculty. The Department recognizes and relishes the opportunity it has to provide specialized surgical care to patients from the Toronto Central Local Health Integrated Network, our surrounding Local Health Integrated Networks and the Province.

EDUCATIONAL ACTIVITY AND AWARDS

Andrew Dueck received a Peters Boyd Award for Clerkship teaching. Albert Yee received a Faculty Award for Excellence in Postgraduate Medical Education for Development and Innovation. Frances Wright received the Tovee Award for Undergraduate Education. Ben Pook (Division of Orthopaedics), Daniel Lodge (Division of Cardiac and Vascular Surgery) and Jennifer Muir (Division of General Surgery) won Harrison Awards. Veronica Wady was nominated for a Peters Boyd Teaching Award. Robin Richards was nominated for the W.T. Aikins Award for individual teaching performance in the large group category.

Darlene Fenech was appointed co-Director of the MMMD second year course for undergraduate medical students. John Murnaghan, Albert Yee, Terry Axelrod, Robin Richards, Ron Kodama and Frances Wright contributed to a retreat organized for New Faculty in the Department. Hans Kreder and David Stephen contributed to AO Courses on the management of pelvic and acetabular trauma.
Division Of Cardiac And Vascular Surgery

Dr. G.T. Christakis  Professor
Dr. G. Cohen  Associate Professor
Dr. A. Dueck  Assistant Professor
Dr. S.E. Fremes  Professor (Division Head)
Dr. B.S. Goldman  Professor

Dr. D.S. Rucey  Assistant Professor
Dr. R. Maggisano  Associate Professor
Dr. F.M. Moussa  Lecturer
Dr. G. Papia  Assistant Professor

PUBLICATIONS


INVITED VISITS


Dueck A: Canadian Institutes of Health Research, Toronto, Ontario, Canada, June 2011. Systemic Review of CCSVI and Multiple Sclerosis: Presentation to the CIHR expert panel on CCSVI.

Fremes SE: Medtronic, Peak Performance XX11, Minneapolis, Minnesota, USA, March 2011. Basic wire skills - Team approach to new technologies and programs.

Fremes SE: Canadian Cardiovascular Congress, Montreal, Quebec, Canada, October 2010. How to start a TAVI program.

Fremes SE: American College of Cardiologists (ACC.11), New Orleans, Lousiana, USA, April 2011. Late-breaking clinical trials II - Radial artery and saphenous vein patency more than five years following coronary artery bypass surgery: Results from the randomized multicentre Radial Artery Patency Study (RAPS).

Moussa FM: Contemporary Cardiac Care Conference, Niagara-on-the-Lake, Ontario, Canada, October 2010. Update on minimally invasive coronary artery bypass surgery.

RESEARCH AND INVESTIGATIONS

A multi-center, randomized, double-blind, placebo-controlled study evaluating the efficacy, safety and tolerability of 20 mg/kg dose of RO4905417 administered every four weeks for 32 weeks in patients undergoing coronary artery bypass graft surgery (CABG) (P-Selectin CABG - BP 25601). Carrier M, Fremes SE: La Roche. ($250,000 2011 - 2013)


FREEDOM Trial - Future revascularization evaluation in patients with diabetes mellitus: optimal management of multivessel disease. Fuster V, Fremes SE (Site PI) and the FREEDOM Study Investigators: National Heart, Lung and Blood Institute (NHLBI). ($162,000 2006 - 2011)


Surgical and pharmacological novel interventions to improve overall results of saphenous vein graft patency in CABG (SUPERIOR). Fremes SE, Novick R, Chu M, Singh SK: Canadian Institutes of Health Research/CANNeCTIN. ($100,000 2011 - 2013)

HONOURS RECEIVED


Division Of General Surgery

Dr. J.F. Boileau  Assistant Professor
Dr. F.D. Brenneman  Associate Professor
Dr. P.T.Y Chu  Associate Professor
Dr. N. Coburn  Associate Professor
Dr. D.S Fenech  Associate Professor
Dr. S.S. Hanna  Associate Professor
Dr. C.M.B. Holloway  Associate Professor
Dr. C.H.L. Law  Associate Professor
Dr. S. Rizoli  Associate Professor
Dr. T.M. Ross  Associate Professor
Dr. A.J. Smith  Associate Professor
Dr. H.C. Tien  Assistant Professor
Dr. L. Tremblay  Assistant Professor
Dr. F. Wright  Associate Professor

PUBLICATIONS


Tremblay LN, Scales D: Ultrasound-guided tracheostomy - not for the many, but perhaps the few.... or the one. Critical Care: April 2011: 15(2): p 147.


INVITED VISITS

Boileau JF: Stronach Regional Cancer Centre, Newmarket, Ontario, Canada, January 2011. The surgical management of locally advanced breast cancer (1hr).


Brenneman FD: Canadian Association of General Surgeons [CAGS], Breakfast with the Professor/ Acute Care Symposium, Quebec City, Quebec, Canada, September 2010. (1) Challenging trauma cases, (2) Hernia emergencies and closure of difficult abdomen.


Brenneman FD: Trauma Association of Canada, Calgary, Alberta, Canada, November 2010. TAC accreditation site visit.


Brenneman FD: Ross Memorial Hospital, Lindsay, Ontario, Canada, March 2011. OR teaching (preceptorship) - abdominal wall reconstruction.


Brenneman FD: Quinte HealthCare, Belleville, Ontario, Canada, May 2011. OR teaching (preceptorship) - abdominal wall reconstruction.

Brenneman FD: Northumberland Hills Hospital, Cobourg, Ontario, Canada, May 2011. OR teaching (preceptorship) - abdominal wall reconstruction

Brenneman FD: Dartmouth General Hospital, Dartmouth, Nova Scotia, Canada, June 2011. OR teaching (preceptorship) - abdominal wall reconstruction.

Brenneman FD: Trauma Association of Canada, Vancouver, British Columbia, Canada, June 2011. TAC accreditation of Vancouver Coastal Health Authority Regional Trauma System.

Coburn N: 11th Annual Mont Tremblant Anesthesia & Perioperative Medicine Conference, Mont Tremblant, Quebec, Canada, February 2011. (1) Panel Discussion: Should I cancel this case?, (2) Two papers that changed my care of the perioperative patient.

Coburn N: European Hepatopancreaticobiliary Association, Cape Town, South Africa, April 2011. Laparoscopic resection of segments 1, 2 and 3 of the liver.

Coburn N: International Gastric Cancer Association, 9th International Gastric Cancer Congress, Seoul, Korea, April 2011. North American Clinical Trials in Gastric Cancer.

Fenech DS: Canadian Association of General Surgeons, CSF Meeting, Quebec City, Quebec, Canada, September 2010. Best Practices in General Surgery - SSI prevention a before and after study.

Fenech DS: Canadian Society of Colon and rectal Surgeons and Candian Society of Surgical Oncologists, Postgraduate Course, Quebec City, Quebec, Canada, September 2010. Transanal excision for rectal cancer.

Fenech DS: Canadian Surgery Forum, Meet the Professor Breakfast, Quebec City, Quebec, Canada, September 2010. Complex problems in colorectal cancer.

Hanna SS: Dongtai Hospital, Dongtai, China, May 2011. Management of cholangiocarcinoma.

Hanna SS: Nanjing First Hospital, Nanjing, China, May 2011. Management of gallbladder cancer.


Law CHL: Bristol Meyers Squibb, Multidisciplinary Advisory Board Meeting, Toronto, Ontario, Canada, July 2010. Unresectable metastases - can this ever change?

Law CHL: Canadian HIPEC Collaborative, Montreal, Quebec, Canada, September 2010. Hyperthermic intraperitoneal chemotherapy - Multicentre collaboration and registry.

Law CHL: L'Universite de Montreal, Annual Colorectal Cancer Symposium 2010 - La Personnalisation du Traitement Du Cancer Colorectal par l'Approche Multidisciplinaire, Montreal, Quebec, Canada, September 2010. Multidisciplinary management of colorectal hepatic metastases - A new era.

Law CHL: Memorial University, St. John’s, Newfoundland, Canada, September 2010. (1) Neoadjuvant treatment options in pancreatic adenocarcinoma, (2) Multidisciplinary integrated care: Making it work for patients and for practitioners.

Law CHL: Oshawa-Scarborough Oncology Meeting, Pickering, Ontario, Canada, September 2010. Multidisciplinary management of neuroendocrine tumours [NETs].


Law CHL: Hong Kong College of Radiologists, 18th Annual Scientific Meeting, Aberdeen, Hong Kong, October 2010. Surgical treatment and multidisciplinary approaches to NETs management.

Law CHL: NET Alliance, Milan, Italy, October 2010. An update on national collaborations for NETs research.


Law CHL: Chennai Oncology Board, Chennai, India, November 2010. Advances in the surgical management of NETs.

Law CHL: Mumbai Oncology Board, Mumbai, India, November 2010. Advances in the surgical management of nETs.

Law CHL: New Delhi Oncology Board, New Dehli, India, November 2010. Advances in the surgical management of NETs.
Law CHL: Northern Ontario School of Medicine and the ThunderBay Oncology Group, Thunderbay, Ontario, Canada, November 2010. How to manage GISTs in the modern evolution of neoadjuvant, adjuvant and new molecular biomarkers.


Law CHL: McMaster University, Regional Oncology Rounds, Hamilton, Ontario, Canada, April 2011. Surgical state of the art for advanced neuroendocrine tumours.

Law CHL: NET Alliance National Collaborative, Toronto, Ontario, Canada, April 2011. Coming to a consensus on the RADIANT study data: Regional and national implications for Canada.


Law CHL: University of Ottawa, Champlain LHIN Regional Colorectal Cancer Surgery Workshop, Ottawa, Ontario, Canada, June 2011. The role of HiPEC in the management of colorectal peritoneal carcinomatosis.


Rizoli S: Medical School of Funchal, Visiting Professor, Madeira Island, Portugal, September 2010.


Rizoli S: The Royal College of Physicians and Surgeons of Canada, Canadian Surgery Forum, Quebec City, Quebec, Canada, September 2010. Lecturer: Whole blood is the key to survival in massive hemorrhage.

Rizoli S: Combat Casualty Resuscitation - Diagnosis and Intervention Symposium, Toronto, Ontario, Canada, October 2010. Thromboelastography in trauma.


Rizoli S: Brazilian College of Surgeons, II International Update Symposium on Surgery and Trauma, Rio de Janeiro, Brazil, March 2011. Visiting Professor and Lecturer: Coagulopathy in trauma.
Rizoli S: Brazilian National Academy of Sciences, II International Seminar on New Perspectives for Trauma Care in Major Disaster, Rio de Janeiro, Brazil, March 2011. Visiting Professor/Lecturer: Advances in the management of massive hemorrhage in trauma.

Rizoli S: Trauma Association of Canada, Annual Scientific Meeting, Banff, Alberta, Canada, April 2011. Chair of the Oral Paper Session.

Rizoli S: I Simposio Internacional de Trauma do Nordeste, Maceio, Brazil, May 2011. Lecturer: (1) Hemotherapy of the traumatized patient: when?, (2) Trauma and Technology

Rizoli S: The Wisconsin Surgical Club, Toronto, Ontario, Canada, May 2011. What is new in surgical bleeding?


Smith AJ: Canadian Surgery Forum, Quebec City, Quebec, Canada, September 2010. Tackling locally-advanced lesions.

Smith AJ: Cancer Care Ontario, South West LHIN, Grand Bend, Ontario, Canada, September 2010. Colorectal cancer disease pathway management.


Smith AJ: Colon Cancer Canada/Wellspring, Toronto, Ontario, Canada, November 2010. What’s new and innovative in the treatment of colorectal cancer?

Tremblay L: Medical Radiation Technologists of Central Ontario Education Day, November 2010. Trauma and pregnancy and you.

Tremblay L: Wayne State University, Detroit Trauma Symposium, Detroit, Michigan, USA, November 2010. (1) Radiation from diagnostic imaging - What is the risk?, (2) Ventilator induced lung injury.

Tremblay L: American Thoracic Society, Meet the Professor Session/State of the Art Course, San Diego, California, USA, March 2011. Managing surgical urgencies in the ICU.

Tremblay L: Trauma Association of Canada, Banff, Alberta, Canada, April 2011. (1) Challenging trauma cases, (2) Management options for complex open abdomens.

Wright F: Canadian Association of General Surgeons, Executive Committee, Quebec City, Quebec, Canada, September 2010. Multidisciplinary Cancer Conferences - Adoption of a standards document.

Wright F: Cancer Care Ontario, Colorectal Cancer Meeting, Toronto, Ontario, Canada, April 2011. Provincial MCC update.

Wright F: Canadian Society of Surgical Oncology, Toronto, Ontario, Canada, April 2011. Outcomes for deep melanoma >4mm: An analysis of 1731 cases.


RESEARCH AND INVESTIGATIONS

A randomized phase III trial of neoadjuvant therapy for patients with palpable and operable HER2-positive breast cancer comparing the combination of trastuzumab plus lapatinib to trastuzumab and lapatinib administered with weekly paclitaxel following AC accompanied by correlative science studies to identify predictors of pathologic complete response. Boileau JF, NSABP Collaborative Group: National Surgical Adjuvant Breast and Bowel Project. ($15,369 2010)

A randomized phase III trial of neoadjuvant therapy in patients with palpable and operable breast cancer evaluating the effect on pathologic complete response (pCR) of adding capecitabine or gemcitabine to docetaxel when administered before AC with or without bevacizumab and correlative science studies attempting to identify predictors of high likelihood for pCR with each of the regimens. Boileau JF, NSABP Collaborative Group: National Surgical Adjuvant Breast and Bowel Project. ($29,904 2010)


Career Scientist Award with the Ministry of Health and Long Term Care. Coburn NG: Ministry of Health and Long Term Care. ($420,000 2008 - 2013)


Improving interfacility transfers of trauma patients in southern Ontario using weekly telephone conferencing. Nathens A, Tien H, Tremblay L [Sunnybrook Physician Lead]. Rizoli S, Brennenman F: Academic Health Science Centres [AHSC]/Alternative Funding Plan, Innovation Fund. ($100,000 2010 - 2011)

Lumpectomy vs. mastectomy or contralateral prophylactic mastectomy: An exploratory study to understand why women with early breast cancer are now choosing more extensive surgery? Wright E, Covelli A, Baxter N, Fitch F: Canadian Breast Cancer Foundation. ($71,500 2010 - 2011)

Optimal Treatment of colorectal cancer metastases in the well but elderly patients. Law, CHL, Coburn NG: Colon Cancer Canada. ($50,000 2009 - 2010)

Outcomes in rare diseases: Advanced outcome analysis - A pooled data analysis. Law CHL, Singh SS, Coburn N: Novartis Oncology Inc. ($20,000 2010 - 2011)


Population based analysis of neuroendocrine tumours: Epidemiology, Processes of Care and Outcomes in Ontario. Singh S, Law CHL: The Dean's Fund, University of Toronto. ($10,000 2009 - 2014)

Population-based assessment of lymphadenectomy during radical cystectomy for bladder cancer in Ontario. Sharir S, Law CHL: University of Toronto, Faculty of Medicine, Deans Fund. ($10,000 2006 - 2011)


The Canadian Neuroendocrine Tumour (NET) Registry. Singh SS, Law CHL: Novartis Oncology Inc. ($25,000 2010 - 2011)


Treatment of Metastatic Colorectal Cancer in the Elderly. *Law CHL, Yang S: Colon Cancer Canada.* ($60,000  2009 - 2011)

**HONOURS RECEIVED**

**Coburn G:** Best Poster Award for “The Costs of Treating Gastric Cancer - A Systematic Review of the Evidence” (Mahar A, Coburn NG, Viola R, Johnson A), during the 9th International Gastric Cancer Association Meeting. April 2011.

**Coburn G:** Young Investigator Award - Supervisor (Korea) for “A Systematic Review of Preoperative Staging Techniques for Gastric Cancer (Cardoso R, Seevaratnam R, Leake P, Helyer L, Paszat L, Coburn NG). April 2011.

**Holloway CMB:** Best Paper in the Scientific Session “Whole-Specimen Histopathology Imaging for More Accurate Tumour Measurements” during the Pathology Informatics Meeting, Boston Massachusetts. September 2010.

**Law CHL:** European Society for Medical Oncology (ESMO) Best Poster Award for “Utility of Progression-free survival (PFS) as a Primary Endpoint in Clinical Studies of Advanced Neuroendocrine tumors (NET).” October 2010.

**Rizoli S:** Best Manuscript at the Eastern Association for the Surgery of Trauma 2011, 24th Annual Scientific Assembly, for “Permissive hypotension does not reduce regional organ perfusion compared to normotensive resuscitation: Animal study with fluorescent microspheres.” January 2011.

**Tremblay L:** Invitation to join Editorial Board for the Journal of Trauma and Acute Care Surgery. June 2011.


**Wright F:** Bruce Tovee Teaching Award for Undergraduate Teaching, awarded by Department of Surgery, University of Toronto. May 2011.
Division Of Neurosurgery

Dr. L. da Costa Jr.  Assistant Professor
Dr. M. Fazl          Assistant Professor
Dr. D.A. Houlden     Assistant Professor
Dr. T. Mainprize    Assistant Professor
Dr. F. Pirouzmand   Assistant Professor
Dr. M.L. Schwartz   Professor (Division Head)

PUBLICATIONS


INVITED VISITS

Houlden DA: Canadian Association of Neurophysiological Monitoring, 3rd Annual Meeting, Banff, Alberta, Canada, September 2010. Some of what I learned on my trip from the ICU to the OR and back.


RESEARCH AND INVESTIGATIONS


Molecular targeting of the RHO-GTPase pathway in human astrocytomas. Rutka J, Hynynen K, Mainprize T: Canadian Institutes of Health Research (CIHR). ($790,000 2010 - 2015)


Symptomatic carotid stenosis revascularization - what’s the hold up? da Costa L: Canadian Stroke Network. ($7,000 2010)
## Division Of Orthopaedics

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<tr>
<th>Name</th>
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<tr>
<td>Dr. M.K. Akens</td>
<td>Lecturer</td>
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<td>Dr. T.S. Axelrod</td>
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<td>Dr. H. Cameron</td>
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<td>Dr. J.C. Cameron</td>
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<td>Dr. G. Fernie</td>
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<td>Dr. J.A. Finkelstein</td>
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<td>Dr. M.H. Ford</td>
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<td>Dr. J.D. Gollish</td>
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<td>Dr. H. Hall</td>
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<td>Dr. R.M. Holtby</td>
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<td>Dr. R. Jenkinson</td>
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<td>Dr. H.J. Kreder</td>
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<td>Dr. B.E. Maki</td>
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<td>Dr. B.W. Malcolm</td>
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<td>Dr. P.H. Marks</td>
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<td>Dr. J.J. Murnaghan</td>
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<td>Dr. D. Nam</td>
<td>Assistant Professor</td>
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<td>Dr. M. Nousiainen</td>
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<td>Dr. R.R. Richards</td>
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<td>Dr. J. Schatzker</td>
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<td>Dr. D.G.S. Stephen</td>
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<td>Dr. M. Tile</td>
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<td>Dr. V. Wadey</td>
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<td>Dr. F. Webster</td>
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<td>Dr. I. Weiler</td>
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<td>Dr. C. Whyne</td>
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<td>Dr. C.S. Wright</td>
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<td>Dr. A.J.M. Yee</td>
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### PUBLICATIONS


- **Bederman SS, McIsaac WJ, Coyte PC, Kreder HJ, Mahomed NN and Wright JG**: Referral practices for spinal surgery are poorly predicted by clinical guidelines and opinions of primary care physicians. Medical Care: September 2010: 48(9): pp 852-858.


**INVITED VISITS**


Axelrod TS: University of South Florida (USF) - Health, Third Annual Current Concepts in Upper Extremity Restoration, Atlanta, Georgia, USA, April 2011. [1] Keynote Speaker: Evolution of plate...
techniques: Have we reached the end of development?, (2) Case-based discussion groups, (3) Forearm and galeazzi fractures: What do I need to know?, (4) Surgical approaches to the distal radius.


Cameron JC: Advanced Course on Osteotomies Around The Knee, Utrecht, The Netherlands, November 2010. (1) Distal femoral osteotomy - long term results, (2) Transverse plane deformities and rotational HTO, (3) Total knee arthroplasty with rotational correction.


Fernie GR: IBM, 2010 Research & Innovation Summit, Markham, Ontario, Canada, October 2010. Innovations in Rehab.


Fernie GR: Canadian Association on Gerontology, 39th Annual Scientific and Educational Meeting, Montreal, Quebec, Canada, December 2010. Optimal design of the built environment for older adults: Empirical evidence from a new state-of-the art research facility.


Fernie GR: The Regional Geriatric Program of Eastern Ontario, 2nd Annual Geriatric Refresher Day, Ottawa, Ontario, Canada, March 2011. (1) The development of technology to support positive aging, (2) The need for technology to support people with physical and cognitive impairments, and their family caregivers, living at home.


Fernie GR: Queen’s University, 13th Rehabilitation Research Colloquium, Kingston, Ontario, Canada, May 2011. Recent research being conducted at Toronto Rehab.

Fernie GR: Haifa University, Haifa, Israel, June 2011. The development of technology to help people age successfully, technology for ageing.

Fernie GR: Ministry of Health and Long-Term Care (Ontario), Toronto, Ontario, Canada, June 2011. Recent developments in solving important problems of hand hygiene, sleep apnea, falls and technology to support family caregivers.


Hall H: University of Saskatchewan College of Medicine, Saskatoon SK, September 2010. Assessing back pain in family practice.


Hall H: Prince George Hospital, Prince George, British Columbia, Canada, January 2011. A practical understanding of low back pain.


Hall H: University of Saskatchewan, Saskatoon/Prince Albert/Regina/Swift Current, Saskatchewan, Canada, March 2011. Low Back pain assessment and management.


Jenkinson RJ: Canadian Orthopaedic Resident Review in Trauma, Toronto, Ontario, Canada, November 2010. Pelvic fractures: Top ten things that you need to know.


Kreder HJ: Surgeon Fracture Symposium, Winnipeg, Manitoba, Canada, January 2011. (1) Moderator: Tibia, (a) Tibial plateau fractures, (b) Talus fractures, (c) Tibial pilon fractures.


Marks PH: International Cartilage Repair Society (ICRS), Barcelona, Spain, September 2010. (1) A randomized, multicenter clinical trial comparing BST-CarGel to microfracture in repair of focal articular cartilage lesions on the femoral condyle: Interim results from 41 patients, (2) Correlation of tissue histomorphometry with ICRS histology scores in biopsies obtained from a randomized controlled clinical trial comparing BST-CarGel versus microfracture, (3) ICRS histology scores of biopsies from an interim analysis of randomized controlled clinical trial show significant improvement in tissue quality at 13 months for BST-CarGel versus microfracture, (4) BST-CarGel treatment shows trend of improved collagen architecture and stratified hyaline structure compared to microfracture in 13 month biopsies from an interim analysis of a randomized controlled clinical trial, (5) Subcondral bone plate characteristics in human and animal bone: Implications for cartilage repair, (6) The influence of microfracture hole spacing and depth cartilage repair in chondral defects: Preliminary results.


Nam D: 2nd Annual Orthopaedic Acute Care and Beyond, Toronto, Ontario, Canada, June 2011. Shoulder Arthroplasty.


Stephen DGS: Manitoba Orthopaedic Society, 50th Annual Meeting, Winnipeg, Manitoba, Canada, October 2010. (1) Minimally invasive osteosynthesis, (2) Update on pilon fractures, (3) Update on femur fractures.


Whyne C: University of Leeds, Guest, Leeds, United Kingdom, November 2010. Oncological Engineering Workshop.


Yee AJM: Canadian Spine Society, 11th Annual Meeting, Symposia, Quebec City, Quebec, Canada, March 2011. Neurmonitoring and perioperative complications in spine surgical oncology.

Yee AJM: Cancer Hospital Chinese Academy of Medical Sciences, Beijing, China, June 2011. Visiting Professor: Translational research opportunities for the treatment of vertebral metastases.

**RESEARCH AND INVESTIGATIONS**


A randomized controlled trial of 1st MTP joint fusion compared to 1st MTP joint hemiarthroplasty in severe hallux rigidus. *Lau J, Stephen DJG: The Physicians’ Services Incorporated Foundation. ($73,000 2004 – 2010)*


Centre for Research in Image-Guided Therapeutics. *Hynnenen K, multiple collaborators including Whyne CM: Canada Foundation for Innovation, Research Hospital Fund Large Scale Institutional Endeavors. ($14,337,919 2008 – 2011)*


and Engineering Research Council, Collaborative Research and Training Experience (CREATE) Program. ($1,650,000 2009 – 2015)


Does an interactive on-line learning program, involving simulation, improve medical residents’ knowledge and skill to manage patients with inflammatory arthritis? - A Pilot Study. Wadey V, McDonald-Blumer H, Cividino A, Wessel J, Levy D, McIlroy J, Dauphine: University of Toronto, Dean’s Fund. ($25,000 2009 - 2012)

Effectiveness of winter footwear on various surface conditions for use by Canadian postal workers. Fernie GR: Workplace Safety and Insurance Board ($55,594 2010 - 2011)

Efficacy of a handrail cueing system designed to prevent falls by facilitating effective grasping. Maki BE, Middleton S: Ontario Neurotrauma Foundation. ($7,000 2011)


Identifying barriers to meeting the Ontario standards for time to treat hip fracture patients. Kreder HJ: Sunnybrook Medical Services Alternative Funding Plan Association. ($75,000 2009 - 2011)

Improvement in the methods of handling human waste to reduce the probability of cross-infection in healthcare institutions: problem analysis and concept development phase. Fernie GR, McGeer A: Ministry of Health and Long-Term Care. ($300,000 2009 - 2011)

Improving emergent care for bone health in vertebral disease - knowledge translation through ethnographic study of access, triage, and care delivery. Webster F, Yee AJ, Fehlings MG, Kreder HK, Gagliardi A: Canadian Institutes of Health Research. ($67,500 2010 - 2011)

Improving quality of care for Canadians at high-risk for fractures: A knowledge to action approach. Jaglal S: Canadian Institutes of Health Research. ($10,000 2011 - 2012)


Incidence of post-operative chronic pain after total hip and knee replacement - pilot study. Boljanovic-Susic D, Rachevitz M, Gollish JD, Woodhouse L: Sunnybrook Health Sciences Centre - PBR Award. ($10,000 2009 - 2010)

Instrumental activities of daily living and social roles following hip and knee replacement:


Modeling thin bone structures of the human skeleton. Whyne C: Natural Sciences and Engineering Research Council (NSERC). ($165,000 2006 - 2011)


Photodynamic therapy to enhance fracture healing. Akens M, Whyne C, Yee A, Nam D: Department of Defense [USA]. ($144,300 2010 - 2011)


Photodynamic therapy treatment to enhance fracture healing. Akens MK, Whyne CM, Nam D, Wilson BC, Yee AJM: Congressionally Directed Medical Research Programs [CDMRP] ($144,300 2010 - 2011)

Prospective randomized clinical pilot study to evaluate the effects of the medial distal locking plate for high energy intra articular fractures of the distal tibia. Stephen DJG, Kreder H, Schemitsch E, McKee M, Bulmer B: American Orthopaedic Foot and Ankle Society [AOFAS]. ($10,000 2005 - 2010]


RF Ablation for cancer cells pre-commercialization phase. Yee AJ, Whyne CM, Aken M: Ontario Centres of Excellence Grant. [$104,000 2010 - 2011]


The immune mediation of fracture repair. Nam D, Whyne C, Anderson M, Alman B: University of Toronto. ($10,000 2010 - 2012)

The immune system and fracture repair. Nam D: Sunnybrook Health Sciences Centre Research Institute. ($100,000 2009 - 2012)

The impact of photodynamic therapy on the biomechanical stability of the metastatic spine: Characterization independent and combined treatment effects with bisphosphonates and radiation therapy. Whyne CM, Yee A, Wilson, B, Burch S, Bisland S: Ontario Institute for Cancer Research. ($530,361 2008 - 2011)


Towards the development of a pervasive prompting system for older adults with dementia: Developing the COACH task guidance system for use in the home. Mihailidis A, Bouttilier C, Cameron J, Fernie GR, Naglie G: Canadian Institutes of Health Research [CIHR]. ($265,155 2009 - 2012)


Which patients are most likely to benefit from total joint arthroplasty and what do they need to know? Hawker GA, Badley E, Borkhoff C, Croxford R, Davis A, Dunn S, Gignac M, Jaglal S, Kreder HJ, Sale J: Canadian Institutes of Health Research. ($359,121 2008 - 2011)
HONOURS RECEIVED


Nam D: University of Toronto Roscoe Reid Graham Scholarship in Surgical Science. October 2010.


Yee AJM: 2011 Award for Excellence in Postgraduate Medical Education (Development and Innovation), University of Toronto, Faculty of Medicine. March 2011.
Division Of Plastic And Reconstructive Surgery

Dr. O. Antonyshyn  
Associate Professor

Dr. P. Binhammer  
Assistant Professor  
(Division Head)

Dr. R.C. Cartotto  
Associate Professor

Dr. J.A. Fialkov  
Assistant Professor

Dr. M. Jeschke  
Associate Professor

Dr. J. Lipa  
Associate Professor

Dr. S. Shahrokhi  
Lecturer

Dr. L. Snell  
Assistant Professor

PUBLICATIONS


INVITED VISITS


Antonyshyn O: European Association for Cranio-Maxillo-Facial Surgery, 4th International Conference on Advanced Digital Technology in Head and Neck Reconstruction, Freiburg, Germany, May 2011. 3D models for the design of craniofacial reconstructive procedures.


Lipa JE: Quality Medical Publishing Inc. (QMP), Fourth Annual Reconstructive Surgery Symposium, St. Louis, Missouri, USA, November 2010. (1) Faculty: (a) Decision making in implant Surgery, (b) Repositioning the nipple when incorrectly placed, (c) Nipple-areolar reconstruction, (d) Latissimus dorsi breast reconstruction; (2) Panelist: Different Approaches to Breast Reconstruction: Choosing the Right Technique: When to Choose Flap over Expander/Implant and When Fat Grafting is Appropriate, (3) Moderator: Finishing Touches: Revising the Reconstructive Mound.


RESEARCH AND INVESTIGATIONS


Assessment of Anabolic Agents/Exercise in burned children. Herndon DN, Jeschke MG: National Institutes of Health, F50 GM60338 Burn Center Grant. ($1,850,630 2009 - 2011)


Characteristics and Applicability of Amnion as a Wound Coverage Material and as a Biomatrix. Herndon DN, Jeschke MG: Clayton Foundation for Research. ($250,000 2006 - 2010)

Characterization of burn induced hepatic dysfunction. Jeschke M: National Institutes of Health Research (NIH: ($850,000 2010 - 2015)
Characterization of hepatic dysfunction post burn. Jeschke M: Canada Foundation for Innovation (CFI). ($1,000,000  2010)

Design of custom skin from cord lining and amniotic stem cells. Jeschke M: Carl C. Anderson Sr and Marie Joe Anderson Charitable Foundation. ($158,000  2008 - 2010)


Evaluation of a 3D facial fracture biomodel as a teaching tool for management of facial fractures. Antonyshyn O: Stryker Canada Education Grant. ($56,000  2011)


HONOURS RECEIVED


Division Of Urology

Dr. L.K. Carr  Assistant Professor
Dr. S. Herschorn  Professor
Dr. L.H. Klotz  Professor (Division Head)

PUBLICATIONS


**INVITED VISITS**


Klotz LH: Cornell Medical School/New York Hospital, New York, New York, USA, April 2011. LeFrak Lecture.

Klotz LH: European School of Oncology/Memorial Sloan-Kettering Cancer Center [MSKCC] Conference on Predictive Markers in Prostate Cancer, New York, New York, USA, April 2011. Role of biomarkers and PSA in active surveillance.


Klotz LH: Nanjing University, Nanjing, China, May 2011. Visiting Professor.


Klotz LH: Shangyuan University, Shangyuan, China, June 2011. Visiting Professor.

Klotz LH: Tianjin University, Tianjin, China, June 2011. Visiting Professor.

Nam RK: Urological Society of Australia and New Zealand, Melbourne, Australia, October 2010. Prostate cancer genetics and risk factors.

Nam RK: Memorial Sloan Kettering Cancer Center, New York, New York, USA, April 2011. Prostate cancer nomograms.

Venkateswaran V: Australian-Canadian Prostate Cancer Research Alliance [PCC/AC-PCRA], God Coast, Australia, August 2010. Metformin enhances the efficacy of androgen deprivation therapy in prostate cancer.

Venkateswaran V: AWIC Community and Social Services, Toronto, Ontario, Canada, April 2011. Diet, Exercise and Prostate Cancer.
RESEARCH AND INVESTIGATIONS

A multicenter, double-blind, randomized, placebo-controlled, parallel-group study of the safety and efficacy of a single treatment of botox (Botulinum Toxin Type A) purified neurotoxin complex followed by a repeat treatment with botox as applicable in patients with idiopathic overactive bladder with urinary urgency incontinence. Carr LK: Allergan. ($18,000 2010)

A multicenter, long-term follow-up study of the safety and efficacy of botox (Botulinum Toxin Type A) purified neurotoxin complex in patients with idiopathic overactive bladder with urinary incontinence. Carr LK: Allergan. ($20,000 2010)


A randomized, double-blind, parallel group, active-controlled, multicenter long-term study to assess the efficacy and safety of the beta-3 agonist YM178 [50mg qd and 100mg qd] in subjects with symptoms of overactive bladder. Carr LK: Astellas. ($5,000 2010)


Effect of desmopressin and in combination with docetaxel in prostate cancer. Klotz L, Venkateswaran V: Ferring Pharmaceutical. ($100,000 2010 - 2012)


Randomized trial of botulinum toxin A versus placebo in the management of overactive bladder. Herschorn A, Carr L: Allergan. ($30,000 2010)

Randomized trial of polyacrylamide gel versus collagen for female SUI. Herschorn S: Conura. ($25,000 2011)

Utilizing metformin to enhance the efficacy of androgen deprivation therapy in prostate cancer. Venkateswaran V, Klotz L, Fleshner N, Sugar L, Pollak M, Colquhoun A: Prostate Cancer Canada. ($119,996 2010 - 2012)

Utilizing metformin to enhance the efficacy of androgen deprivation therapy in prostate cancer. Venkateswaran V, Klotz L, Fleshner N, Sugar L, Pollak M, Colquhoun A: Canadian Institutes of Health Research, Institute of Nutrition, Metabolism and Diabetes - Bridge Funding Priority Funding. ($92,605 2010 - 2012)

HONOURS RECEIVED

Herschorn S: Chairman of Section on vesicourethral Stenosis after treatment for prostate cancer at the International Consultation on Urethral Stricture Disease. 2010.

Herschorn S: Co-Chairman and Scientific Committee Chairman of International Continence Society/International Urogynecologic Association Combine Meeting. 2010.


Klotz LH: Guest Editor, Urologic Oncology, December 2010.

Klotz LH: Honorary Professor, Peking University Wu Jieping Urology Center, June 2011.


Venkateswaran V: Best Poster for Abstract titled “The Use of Metformin to Enhance the Efficacy of Androgen Deprivation Therapy in Prostate Cancer,” at the Society of Urologic Oncology Meeting in Washington, DC, November 2010.
Toronto East General Hospital
Laura Tate, Surgeon-in-Chief

HEADS OF DIVISION

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<th>Heads of Division</th>
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<td>Dr. P. Bernick</td>
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Toronto East General continues to be a leading Community Teaching Hospital in Toronto as our teaching days have increased again this year with excellence recognized in TES scores. We are planning to increase our Bariatric case numbers from ninety to one hundred and twenty to meet the provincial targets this year. Patient safety continues to be at the forefront of our focus and information will be available on our website redesign. Surgical Site Infection data has been collected and distributed to each surgeon and post discharge surveys have been instituted to try and collect post-operative information. Antibiotic Stewardship has proved to be a very useful strategy in our Critical Care and Surgical In-patient Care, combining best practice and cost savings. Provincial funding of emergency department wait-times has affected our in-patient bed management strategies.

NEW STAFF

In the Spring of this year, Dr. Linda Dvali joined our Division of Plastic and Reconstructive Surgery as the new Division Head. Ryan Groll is also a recent recruit in the Division of Urology. Najib Saieddine, a Thoracic surgeon, new staff in the Division of General Surgery.

DEPARTURES

Tom Dickie has moved to Lakeridge Health Oshawa to become the Chief of Surgery.

APPOINTMENTS AND PROMOTIONS

Rob Zeldin, Division of General Surgery, has been promoted to Assistant Professor. Now holding the rank of Lecturer are Atul Kesarwani, Ryan Groll and Hany Sawires.

DIVISION OF GENERAL/THORACIC SURGERY

The Bariatric Initiative has been successfully implemented this year with Jamie Cyriac and Mary-Anne Aarts heading our team. Mary-Anne is the provincial lead in outcome analysis and our representative for Best Practices in General Surgery. Dr. Bernick chairs the General Surgery Tumour Board (MCC) and is the MCC Chair that oversees all tumor boards at TEGH. The Division of General Surgery has partnered with the Odette Cancer Centre Radiation Oncology Group which now attends a very successful Multidisciplinary Cancer Conference (MCC). Hany Sawires won the John Fowler Family Practice Resident Teaching Award 2011. TES Scores for Drs. Bernick, Gilas, Simone, Zeldin and Sawires were excellent. There is one full time and two part-time General Surgery Fellows this year. [Undergrad teaching days 136/ Postgrad 2345]. Dr. Bob Mackenzie has moved to Modified Active Staff and continues to see Breast Cancer patients and assist in the OR.

TEGH continues to be a Level 1 Thoracic Center with Cancer Care Ontario’s continued support for thoracic cases. Our relationship with the Royal Victoria Hospital Respirologists and Oncologists in Barrie has been working well. The Thoracic Surgery group and its administrators, in collaboration with the cancer centre at Royal Victoria Hospital in Barrie (RVH), has won the 2010 Cancer Care Ontario Quality Award. This was awarded for our work in setting up a partnership with RVH to deliver Thoracic Surgery services to the North Simcoe Muskoka LHIN and setting up a Diagnostic Assessment Unit at RVH. Simon Lu continues perform thoracic surgery at TEGH. Najib Saieddine is our newest Thoracic Surgeon and brings his expertise in minimally invasive surgery specifically VATS. Najib obtained his MD from the University of Western, General Surgery Fellowship from the University of Ottawa and Toronto, Thoracic Surgery Fellowship from the University of London and completed his Fellowship at Cedars Sinai Medical Center in California. He was recruited from State University of New York as an Assistant Professor. Rob Zeldin has been promoted to Associate Professor this year. Rob is also the Chairman of the Section of Thoracic Surgery.

DIVISION OF ORTHOPAEDICS

We have been working collaboratively to implement the Fractured Hip Initiative successfully. The Bruce Tevce Award for Postgraduate Education went to Bill Kraemer who also had outstanding TES scores this year. Receiving also excellent TES scores were Peter Weiler, Frank Mastrogiacomo, and Paul Wong. The Orthopedic TEGH Fellowship continues to rate as the highest Fellowship program at UofT. Dr. Wong is a member of the University Postgraduate Resident Committee.

[Undergrad teaching days 2344/ Postgrad 2916]
DIVISION OF AND RECONSTRUCTIVE PLASTIC SURGERY

We are looking forward to working with Linda Dvali, our successful candidate for Division Head. Linda will bring her expertise in teaching to the Division and increasing teaching commitments. She obtained her MD from Western, Plastic Surgery Residency in Toronto, Masters Science in Harvard and a Peripheral Nerve Fellowship with Susan MacKinnon at Washington University in St. Louis. Linda has been a cross-appointee at UHN-Orthopaedics/Hand Program since 2003. Brett Beber has been a member of the University Postgraduate Resident Committee and Wellness Director. Brett has a clinic and OR time at Women's College Hospital for Breast Reconstruction and was involved in ASCM II teaching this year. Atul Keswani has been promoted to Lecturer. He has been on active staff at TEGH since 1988 and we will now be able to support our resident teaching within TEGH. Undergrad teaching days 132/ Postgrad 372. Dr. Tate organized the 2nd Annual Rotman Advanced Health Leadership Program April 2011.

DIVISION OF UROLOGY

Multidisciplinary Tumour Boards have been regularly in place this year. It is the 10th year of our Endo-Urology Fellowship and PGY 4 Residents rotated electively. We are still in fundraising mode for the Da Vinci Robot. John Kell was a teacher for ASCM II this year. [Undergrad teaching days 41/ Postgrad teaching days 81]. The CCO Surgical Pathology Indicators Report, released in November 2010, was very complementary of our Pathology and Surgical teams. TEGH was the only hospital in the Central LHIN with 0% of discrete synoptic prostate cancer resection reports with positive pT2 margins. As noted earlier, Ryan Groll is our newest Urologist. Ryan obtained his MD from Toronto, a Masters of Science in Health Administration, Urology Residency and Endo-urology Fellowship also in Toronto. Ryan is helping us review our HSMR surgical data. TEGH, in collaboration with the Urology Service, established a continence group that has reduced catheter use in the hospital and will hopefully reduce risk of catheter related infections. John Kell is leading a safety initiative in catheter injury reduction.
■ Division Of General Surgery

Dr. M.A. Aarts  Assistant Professor  Dr. T. Gilas  Assistant Professor
Dr. P.E. Bernick  Assistant Professor
(Division Head)
Dr. J. Cyriac  Lecturer
Dr. J. Dickie  Lecturer

Dr. H. Sawires  Lecturer
Dr. C. Simone  Lecturer
Dr. R. Zeldin  Assistant Professor

**PUBLICATIONS**


**INVITED VISITS**


**HONOURS RECEIVED**


■ Division Of Orthopaedics

Dr. M. Catre, Jr.  Lecturer  Dr. P. Weiler  Assistant Professor
Dr. J.W. Kraemer  Assistant Professor
(Division Head)
Dr. G. Maistrelli  Associate Professor  Dr. P. Wong  Assistant Professor
Dr. F. Mastrogiacomo  Lecturer

**PUBLICATIONS**


**INVITED VISITS**


Maistrelli G: Fort Lauderdale Conference on Triathlon Family Cadaveric Training, Fort Lauderdale, Florida, January 2011. (1) Lecturer-Instructor: (a) Triathlon PKR design rationale, (b) Surgical video presentation of PKR surgical technique, (2) Cadaver Lab/Demo Instructor: Triathlon primary, revision and PKR cadaver training.
RESEARCH AND INVESTIGATIONS


HONOURS RECEIVED

Kraemer WJ: Bruce Tovee Postgraduate Teaching Award, May 2011.

Division Of Plastic And Reconstructive Surgery

Dr. B. Beber  Lecturer
Dr. L. Dvali  Assistant Professor
(Division Head)
Dr. A. Kesarwani  Lecturer
Dr. L.J. Tate  Assistant Professor

Division Of Urology

Dr. R. Groll  Lecturer
Dr. R.K. Singal  Lecturer (Division Head)
Dr. P. Vlaovic  Lecturer
HEADS OF DIVISIONS

- Dr. T.E. David: Cardiac Surgery
- Dr. L. Rotstein: General Surgery
- Dr. C. Wallace: Neurosurgery
- Dr. N. Mahomed: Orthopaedics
- Dr. S. Hofer: Plastic Surgery
- Dr. T. Waddell: Thoracic Surgery
- Dr. N. Fleshner: Urology
- Dr. T. Lindsay (Acting): Vascular Surgery

DIVISION OF CARDIAC SURGERY

Members of the Division of CVS remain academically very active with 37 peer-reviewed publications during the past academic year. Drs. Weisel, Li, Yau and Rao were successful in their grant applications to support their research laboratories. A successful fund-raising event on November 20, 2010 allowed for maintenance of our philanthropically funded transcatheter aortic valve implantation program and also creation of a new chair in heart valve diseases.

DIVISION OF GENERAL SURGERY

The Division of General Surgery at the University Health Network is a large Division with 20 Faculty covering three different sites, Toronto General, Toronto Western and Princess Margaret Hospitals. The focused areas of activity in the division include: at Toronto General, hepatobiliary surgery and transplantation. At Princess Margaret, the emphasis is on cancer of the breast, melanoma and endocrine oncology. At Toronto Western the focus is minimally invasive surgery including advanced minimally invasive techniques, colorectal oncology and bariatric surgery.

NEW FACULTY

Dr. Tim Jackson joined the faculty in the division of General Surgery having completed his residency training in the Department of Surgery at McMaster University and his Master Degree in Public Health and Fellowship training in Advanced Minimally Invasive Surgery at Harvard Medical School. Dr Jackson’s academic area of interest is quality assessment and quality control.

DEPARTURES

Dr. Richard Reznick has left this division in order to take on the position of Dean of the Faculty of Health Sciences at Queen’s University Medical School, Kingston, Ontario.

Dr. Bryce Taylor has retired from clinical practise as of May 1, 2011 but continues to be actively involved in the administration of the International Patient Program at University Health Network.

The Division of General Surgery at University Health Network is actively involved in the University of Toronto Bariatric Surgical assessment and treatment program. There is an assessment centre at the Toronto Western site as well as a Centre of Excellence for provision of Bariatric Surgical Care. The target for 2011 fiscal year is 300 bariatric surgical operations. Tied to this program has been the development of a quality initiative enrolling in the NSQIP [National Surgical Quality Improvement Program] Bariatric Surgical Module, in order to carefully monitor process and outcome in bariatric surgical operations. This adds a much needed element of academic rigor to this practise.

Our Division has also enrolled in the General Surgical Module of NSQIP which will allow for improvements in assessment of process and outcomes in General Surgery at our Centre and across the breadth of General Surgery. We are one of a very small number of Canadian Centres that are involved in this program and this will allow us to benchmark with other major teaching centres, predominantly those in the United States. Drs. Timothy Jackson and David Urbach are spearheading this initiative.

We have also initiated a Robotic Colorectal Surgery Program to perform minimally invasive robot assisted operations for cancers of the rectosigmoid. This will hopefully allow for these patients to have shorter hospitalizations, speedier recovery, and early return to normal activity.

The Hepatobiliary Surgery Oncology Program continues to flourish, under the leadership of Dr. Steven Gallinger. We perform over 300 major hepatobiliary pancreatic oncologic ablative procedures annually at University Health Network. Additionally, we have programs in place to monitor quality and outcomes in these patients and are actively involved in research in outcomes, multidisciplinary treatment, molecular biology and genetics of cancers of the liver, pancreas and colon.

PROMOTIONS

We are pleased to announce the promotion of Dr. Anna Galigiardi to Associate Professor within the Department of Surgery, and Dr. David Urbach to Professor of Surgery.
DIVISION OF NEUROSURGERY

The Division of Neurosurgery at UHN has undergone significant restructuring over this past academic year in preparation for growth and the hiring of 5 additional neurosurgeons to our faculty. Members of the Division have continued to excel clinically, in research, and in education. The Division, along with the UHN foundation, have committed funds to an Endowed Chair for the Division Chief of Neurosurgery at TWH.

Dr. Tymianski has been named a Canada Research Chair (Tier 1) in Translational Stroke Research, has completed a 14-site multi-center, randomized, double blinded clinical trial of a neuroprotectant initially discovered in his scientific laboratory, and has received a 5 year ORF grant for his scientific work on TRPM7 channels.

Dr. Michael Fehlings continues to work on translational and clinical aspects of cervical myelopathy, has published multiple papers on the topic, and has participated in the completion of two multicentre international clinical trials on cervical myelopathy. He was awarded the Hansjörg Wyss Foundation Award from AOspine International.

Dr. Andres Lozano was appointed as the Chairman of the division of neurosurgery at the University of Toronto. Among multiple awards, he was this year’s recipient of the 2010 Winn Prize Award from the Society of Neurological Surgeons.

Dr. Mark Bernstein was appointed as the inaugural Greg Wilkins-Barrick Chair in International Surgery. The Chair is the centerpiece of a $5.5 million gift from Barrick and the Wilkins family to the Toronto General & Western Hospital Foundation, in tribute to Greg Wilkins, Barrick’s late CEO.

Dr. Gelarch Zadeh was an Invited Speaker at multiple international meetings, received the Annual Clinician Scientist Award and the Best Abstract Award at the American Society for Therapeutic Radiation and Oncology (ASTRO) Annual Meeting, and a B.R.A.I.N. Scientist Award and the Best Abstract Award at the International Meetings, received the Annual Clinician Scientist Award and the Best Abstract Award at the American Society for Therapeutic Radiation and Oncology (ASTRO) Annual Meeting, and a B.R.A.I.N. Scientist Award and the Best Abstract Award at the American Society for Therapeutic Radiation and Oncology (ASTRO) Annual Meeting.

Dr. Mojgan Hodaie was awarded the Wightman-Berris Award for postgraduate education, May 12, 2011. She was also promoted to the rank of Associate Professor, and appointed as a member of the WFNS education Committee, and the AANS Neurosurgeons Editorial Board.


Dr. Fred Gentili has lectured at multiple international meetings on various aspects of neurological endoscopy and skull base neurosurgery. He continues to be a sought-after teacher, and trains multiple clinical fellows.

Dr. Charles Tator was the recipient of the UHN 2011 Global Impact Award, given to a UHN staff member who has been leaders in medicine and science, and whose past work has led to improvements in health care well beyond our borders. Dr. Tator was selected as this year’s recipient, in recognition of his pioneering research in spinal cord injury in Canada, and as an international leader in prevention of head injury.

In addition, trainees of UHN neurosurgeons continue to win major awards: Douglas Cook (1st prize; Supervisor – Dr. Michael Tymianski) and Gregory Hawryluk (2nd prize; Supervisor – Dr. Michael Fehlings) swept the Basic Neuroscience Research category of this year’s K.G. McKenzie Prize competition for their papers entitled “Extending the therapeutic window for reperfusion after stroke in non-human primates using a PSD-95 inhibitor” and “Understanding how a cell transplantation paradigm leads to functional recovery from spinal cord injury: the importance of remyelination”, respectively. Adrian Laxton (Supervisor – Dr. Andres Lozano) was awarded 1st Prize in the K.G. McKenzie Prize in Clinical Neuroscience Research competition for his work entitled “A Phase I trial of deep brain stimulation of memory circuits in Alzheimer’s disease”. The McKenzie Prizes are awarded by the Canadian Neurological Society for the best manuscript submitted to the Society by a neurosurgical resident who is the principal author on the work. In addition, Suneil Kalia (Supervisor – Dr. Andres Lozano) was 2nd author on a paper, authored by his wife Lorraine, entitled “Regulation of alpha-synuclein oligomerization and ubiquitinylation by molecular chaperones” that won the Andre Barbeau Memorial Prize.

DIVISION OF ORTHOPAEDICS

We recruited a new clinical epidemiologist to the division, Dr. Anthony Perrucio. Anthony completed his PhD in Epidemiology at the University of Toronto and finished a post-doctoral fellowship at Harvard. Anthony’s focus will be on clinical epidemiology health services research around patients with arthritis related disorders. He has published 15 peer-reviewed articles/chapters/abstracts over the past year and was appointed Co-Chair of the MSK working group for the Ontario Health Study.

Under the leadership of Dr. Christian Veillette the division has developed an integrated clinical outcomes measurements database called UHN DADOS. This is a web based health information platform that provides the core data management and outcomes research infrastructure for prospective data collection in clinical and translational research. It has currently been implemented within the UHN Orthopaedic and Spine programs; however, its capabilities are of benefit to additional programs, academic institutions and research communities across Ontario and world-wide.

The innovation aims to address three key problems that currently plague attempts to improve the quality of care, compare effectiveness of treatments and bridge the gap between research and clinical care: 1) Lack of standardization of outcome collection and reporting tools, 2) Spread of data across isolated/disparate institutional repositories, 3) Reliance on
costly, proprietary third-party vendors to deploy patient outcome reporting.

Under the leadership of Dr. Rajiv Gandhi the division has developed and instituted a clinical tissue biobank which captures and stores clinical specimens from patients undergoing surgery at the University Health Network. We have had a number of peer reviewed publications centred around this work in the past year. Working in collaboration with Dr. Mark Takahashi at the MaRS Discovery Center, the division has been looking at translational research projects looking at the impact of obesity and leptin adiponectins in the modulation of osteoarthritis and its impact at the time of surgery.

Under the leadership of Dr. Raj Rampersaud, the Division has implemented an integrated adverse events tracking program called ORTHOSAVES. The goal of this project is to capture adverse events in the intraoperative and in the perioperative period to provide an infrastructure for quality improvement and patient safety strategies. This is modelled after the program that Raj has developed in spine surgery called Spine AdVerse Events Severity system (SAVES).

Dr. Stephen Lewis was invited as one of ten founding members of the AO Spine’s Knowledge Forum on Deformity [an international group of spinal deformity surgeons]. He chaired International and a national spinal deformity courses and was the local host of the 17th annual International Meeting of Advanced Spine Techniques (IMAST).

Dr. Darrell Ogilvie-Harris has completed the first year as Head of the Sports Program in combination with Women’s College Hospital. The teaching curriculum for residents has been reorganised with a defined body of knowledge and formal testing with OSCE, MCQ, case write up and STACERS. The fellowship program consisted of combined staff/fellow rounds and formal teaching by the fellows. A bioskills lab (drylab) has been set up and incorporated into teaching rounds using a donation in kind of the old UHN arthroscopy equipment and generous support from Smith and Nephew. It is part of the “simulation laboratory” at WCH including anaesthesia and nursing.

The Division of Orthopaedics, in conjunction with the Arthritis Program at the University Health Network has launched a fundraising campaign called the ‘Arthritis Campaign’ with a target goal of raising 25 million dollars for research towards translational research in arthritis with a primary focus around osteoarthritis. To date, we have raised 15 million dollars towards this goal.

The Division at UHN will be working in collaboration with the MSK EDU and the McEwen Center for Regenerative Medicine at UHN to evolve and develop a focused program for regenerative strategies for osteoarthritis over the next three to five years.

Dr. Rod Davey was appointed co-chair of the Joint Health Disease Management Task Force for the Toronto Central LHIN. In Rod’s role he oversees the implementation and delivery of orthopaedic and associated services for patients undergoing hip and knee replacement, as well as hip fracture surgery in the Toronto Central LHIN. Rod’s other provincial roles of leadership includes sitting on the Toronto Central Wait Times Strategies Committee and on a task force looking at complexity of total joint patients and a task force looking at the discharge status of total joint patients in the Toronto Central LHIN.

Dr. Mark Erwin, a researcher within the Division of Orthopaedics at UHN, has been recognized with several recent research awards for his work on regenerative disc biology. His progress last year included his laboratory being able to suppress apoptosis and degeneration of intervertebral disc-derived chondrocyte-like cells in vitro. Furthermore, his lab has successfully differentiated disc-derived stem cells into chondrogenic, adipogenic, osteogenic and neurogenic lineages as well as successfully transplanted disc stem cells into the brain and spinal cord of animals.

DIVISION OF PLASTIC AND RECONSTRUCTIVE SURGERY

The Division of Plastic and Reconstructive Surgery at UHN has had a very productive year in the areas of education, research, publications and presentations and clinical outreach programs.

In the area of education, the TWH Hand Program collaborating with the Physiotherapy and Occupational Therapy Departments, University Health Network organized a 2-day Hand Surgery and Rehabilitation Symposium covering selected topics in hand surgery and rehabilitation. The First Paediatric Upper Extremity Symposium was organized by Drs. Stefan Hofer and Christopher Forrest and held in October 2010 with Guest Speaker, Professor Steven Hovius, from Rotterdam, The Netherlands and combined with the 8th Annual Ralph T. Manktelow Hand Symposium.

In terms of Research funding and collaboration, Divisional peer-reviewed funding was obtained from the following agencies: CBCF, CSPS, CIHR, PSIF, and PSEF/ASRM for projects ranging from basic science, new surgical biomaterials applications, quality of life outcomes, pain management and population-based studies.

Dr. Toni Zhong was awarded one of two outstanding paper presentations by the American Society for Reconstructive Microsurgery |ASRM| 2011 as well as the William K. Lindsay Faculty Research Mentor Award, Division of Plastic Surgery, University of Toronto 2011. In addition, Dr. Zhong was appointed as the Breast Cancer Reconstruction Fellowship Coordinator as well as the Clinical Fellowship Coordinator for the Division at the University of Toronto.

During the past academic year, division members published 19 peer-reviewed papers, presented 24 scientific papers and presented 15 invited lectures.

TWH – Hand Program

Dr. Brent Graham has stepped down as Director of the Hand Program after 12 years. Dr. Stefan Hofer has taken on this role and the Hand Program is currently working to recruit two new hand surgeons for strategic growth and further development in our expertise in microsurgery, peripheral nerve surgery, reconstructive carpal surgery and arthroscopy/minimally invasive wrist and hand procedures.
We are pleased to announce that Dr. Christine Novak has recently been recruited and appointed as an Associate Professor in the Division of Plastic & Reconstructive Surgery, Department of Surgery, as a Scientist at the Toronto Rehabilitation Institute and a Research Associate at the University Health Network in the Hand Program (Toronto Western Hospital).

Dr. Toni Zhong received a M.H.S. degree specializing in Clinical Epidemiology from the School of Public Health at Harvard University and she was also promoted to Assistant Professor in the Department of Surgery.

DIVISION OF THORACIC SURGERY

This year 2010-2011 has been a stellar period of advancement for our Division of Thoracic Surgery (DOTS). It continues to have the largest clinical activity of any thoracic program in Canada. We successfully recruited Dr. Marcelo Cypel after an international search for a Surgeon-Scientist with research and clinical interests in lung transplantation and extra-corpooreal life support. Dr. Cypel completed general surgery and thoracic surgery training in Brazil before coming to Toronto, where he completed his MSc working on Ex Vivo Lung Perfusion under Dr. Shaf Keshavjee. He then completed additional fellowship training at TGH in thoracic surgery and lung transplantation. Dr. Cypel has won the prestigious Michael DeBakey Research Scholarship as the most promising young faculty member in North America from the American Association for Thoracic Surgery. Dr. Andrew Pierre were promoted to Associate Professor for his contributions to education. Dr. Darling was appointed as the surgical lead for the thoracic site in the leading radiation oncology trials group, RTOG. Dr. Yasufuku was appointed to the lung site group for the CCO Program in Evidence-Based Care. Dr. Keshavjee was appointed to the Council of the AATS. Dr Waddell was appointed Chair of the AATS Research Committee and continued to serve on the Research Committee of the TSFRE and the Program Planning Committee for the Annual Meeting of the STS.

EDUCATION

Dr. Sameena Uddin successfully completed her completed her training this year and has taken a clinical position in Mississauga. Fellows graduating from our program included Dr. Masaki Anraku, who has returned as Assistant Professor at Keio University in Japan, Dr. Masaki Sato, who has joined the University of Kyoto, to extend our long-term collaboration with this important group. Both Dr. Anraku and Dr. Sato trained for many years in Toronto, including experience in both advanced laboratory research, thoracic surgery, and lung transplantation. Dr. Eero Silvo returned to his position as Deputy-Chief, Thoracic Surgery in Finland after training in thoracic surgery and lung transplantation. Dr. Isabelle Schmitt-Otitz returned to her faculty position at the University of Zurich in Switzerland after specialized training in mesothelioma and surgery for chronic thromboembolic pulmonary hypertension. Dr. Gustavo Fortunato returned to his faculty position in Brasil after completing training in lung transplantation. Dr. Nona Zeitlin returned to her faculty position in Israel after completing her time of training which included both lab research and clinical thoracic surgery.

RESEARCH AND ACADEMIC PRODUCTIVITY

Clinical and research activity together led to 49 peer reviewed primary publications with an additional 9 reviews or chapters. Division members also participated in a total of 36 invited visits. Overall, the clinical research activity of the Division remains very strong as the major Canadian contributor to multi-centre clinical trials and as developer of several innovative trials, including neo-adjuvant therapies for lung, mesothelial, and esophageal cancers, and CT screening for mesothelioma and recurrent lung cancer. The Latner Thoracic Research Laboratories continues to be very successful with grant capture and publications. Drs. Keshavjee, Liu, Waddell, de Perrot, Hwang (Pathology), and Yasufuku work in areas of lung injury and repair, tissue regeneration, lung transplantation and thoracic oncology, especially image-guided therapeutics and nanotechnology. Collectively, they attracted almost $2M in peer-reviewed research funding, excluding research contracts with corporate sponsors. Major highlights for 2010-2011 include: Dr. Takehiro Nakajima was awarded the Young Investigator Award from the American College of Chest Physicians for his work on molecular assessment of lung cancer (Supervisor, Dr. K Yasufuku), the publication of our clinical trial of “Normothermic Ex vivo lung Perfusion in Clinical Lung Transplantation” in the New England Journal of Medicine (Cypel et al, NEJM, 364(15):1431-1440) and the presentation of our single center study comparing endobronchial ultrasound to cervical mediastinoscopy as the opening plenary paper at the 2011 American Association for Thoracic Surgery meeting (Yasufuku et al, JTCVS in press).

DIVISION OF UROLOGY

The Division of Urology at the University Health Network continued to have an extremely productive year. We have published collectively over 40 peer reviewed manuscripts and many of our members continue to have peer reviewed grant funding.

Dr. Antonio Finelli continues his work in minimally invasive and robotic surgery at the UHN. From a research point of view, he continues to work on knowledge translation strategies and health services research as it applies to kidney and prostate cancers.

Dr. Neil Fleshner continues his clinical focus in prostate and bladder cancers. In 2011, he had a major presentation on the results of the REDEEM study which was a featured paper at GU ASCO, AUA and EAU meetings. He continues to run an active research program in prostate cancer prevention through the Love chair. He also leads the GU BIOBANK initiative.

Dr. Magdy Hassouna has had a successful year. He continues his clinical work which focuses on bladder neuromodulation for end stage bladder disease and chronic pelvic pain.

Dr. Michael Jewett continues his clinical work in genitourinary oncology. He maintains an active research program in kidney cancer through the Farquharson chair. This year Dr. Jewett was awarded medals of merit from the AUA, SUO and CUA.
Dr. Sidney Radomski continues his work in female urology and complex neuro-urology. He has been invited lecturer in many North American sites this year.

Dr. Michael Robinette continues his clinical devotion to kidney transplantation. He has also been the physician lead on the 123 Edward Street clinic.

Dr. John Trachtenberg continues his innovative academic work in prostatic diseases through the Fleck Tannenbaum Chair. His research in image guided focal therapy in prostate cancer has gained international interest and now in phase II testing.

Dr Alexander Zlotta continues his translational research in prostate and bladder cancer. In July, he will assume the directorship of our uro-oncology fellowship program. This program has blossomed into a world-class teaching program with 3 clinical and up to 9 research fellows per year.

**DIVISION OF VASCULAR SURGERY**

The Division remains active in clinical work, research, teaching and provides leadership at hospital, university and provincial levels. A focus of emerging expertise and innovation surrounds the application of endovascular aneurysm technology to repair aneurysms in all areas of the arterial tree. A collaborative partnership with Interventional Radiology in the use of branched and fenestrated endovascular devices for the arch, thoracic, thoracoabdominal, abdominal and iliac vessels is gaining strength as a signature program.

Dr. Rubin continues as Program Medical Director of the Peter Munk Cardiac Center, Chairman and CEO of the MSH-UHN Academic Medical Organization and Representative to the Provincial Academic Medical Steering Committee. In May of 2011 Dr. Thomas Lindsay was named Acting Division Head at UHN to succeed Dr. Rubin. Dr. George Oreopoulos completed a Fellowship in Interventional Radiology at the University of Toronto and will become a joint member of the Division of Medical Imaging. Dr. Leonard Tse is embarking on his own research program after having completed his Master’s degree under the supervision of Dr. Cristina Amon in the Department of Engineering at the University of Toronto. Dr. Roche-Nagle has lead the Quality of Care initiative within the Division through membership in the New England Vascular Study Group.

Dr. Rubin continues with funding for 3 CIHR grants. New grants were obtained by Dr. Douglas Wooster and Dr. Leonard Tse. The Division was responsible for the publication of 10 peer reviewed articles. Dr. Johnston with his co-author Dr. Jack Cronenwett published the revised Rutherford Textbook of Vascular Surgery.

Dr. Lindsay was awarded the Ross Fleming Surgical Educator award at the University Health Network in May 2011.

The Division was extremely active at the Canadian Society for Vascular Surgery meeting presenting seven papers at the 2010 meeting and was active in the 2011 Winnipeg Vascular and Endovascular symposium. Dr. Wooster presented at the 2011 Society for Vascular Surgery annual meeting and well as numerous other national and international meetings.
Division Of Cardiac Surgery

Dr. J.S. Brister  Associate Professor
Dr. R.J. Cusimano  Associate Professor
Dr. T.E. David  University Professor *(Division Head)*
Dr. C.M. Feindel  Professor
Dr. R. K. Li  Professor

Dr. A.C. Ralph-Edwards  Lecturer
Dr. V. Rao  Professor
Dr. G. Ropchan  Associate Professor
Dr. H. Scully  Professor
Dr. R. D. Weisel  Professor
Dr. T.M. Yau  Professor

PUBLICATIONS


INVITED VISITS

Brister SJ: Canadian Cardiovascular Congress, Montreal, Quebec, Canada, October 2010. Interesting developments and clinical trials.


David TE: Hartford Hospital, The Henry Low Heart Centre, 26th Annual Cardiovascular Symposium, Hartford, Connecticut, USA, October 2010. What’s new in cardiac surgery?

David TE: The Chinese University of Hong Kong/Prince of Wales Hospital, Department of Surgery, Division of Cardiothoracic Surgery, Shatin, NT, Hong Kong, October 2010. Tricuspid valve repair or replacement?

David TE: Friedrich-Schiller University Jena, University of Heart Center Thuringen, Jena, Germany, January 2011. Visiting Professor: Heart Valve reconstruction. Lessons from the master.


David TE: Cleveland Clinic Hospital, Visiting Professor, Cleveland, Ohio, USA, May 2011. The Hancock II bioprosthesis for aortic valve replacement - the gold standard in bioprosthetic durability?


David TE: Association of Cardiac Surgeons, XXVII Meeting, Montreal, Quebec, Canada, June 2011. Invited Speaker: Long-term results of valve-sparing root reconstruction in Marfan syndrome.


Feindel CM: Canadian Cardiovascular Society, Montreal, Quebec, Canada, October 2010. Determinants of variation in revascularization practices in Ontario (VRPO).

Feindel CM: Canadian Cardiovascular Society, Montreal, Quebec, Canada, October 2010. Workshop: Variation in Revascularization practices in Ontario: Clinical and non-clinical factors and outcomes.


Li R-K: Medical College of National Cheng Kung University, Minipigs in Biomedical Research Meeting, Guest Speaker, Tainan, Taiwan, August 2010. Swine model in cardiovascular research.

Li R-K: National Tsing Hua University, Department of Chemical Engineering, Hsinchu, Taiwan, August 2010. Tissue engineering in cardiovascular research.

Li R-K: Universita Di Roma “Tor Vergata”, Adult Progenitor Cell Standardization, Rome, Italy, December 2010. (1) Chairman of Round Table, (2) Guest Speaker: Feasibility of allogeneic bone marrow cells for cell therapy to repair damaged myocardium after myocardial infarction/ Which strategies to govern adult progenitor cells differentiation?

Li R-K: Cardiovascular Research Foundation, Sixth International Conference on Cell Therapy for Cardiovascular Disease, Moderator, New York, New York, USA, January 2011. Allogeneic cells, molecular agents, and specialty products.


RESEARCH AND INVESTIGATIONS

**Acadesine to reduce perioperative ischemic injury. Yau T, Weisel RD: Schering-Plough.** ($100,000 2009 - 2010)


An angiogenic progenitor cell niche in the uterus: Potential implications for cell therapy. *Li R-K: Canadian Institutes of Health Research.* ($618,120 2008 - 2013)


**Anaconda trial. Wasowicz M, Yau TM: Innovations Fund.** ($91,722 2010 - 2011)


Facilitators and barriers to effective discharge following open heart surgery: Patients’ and nurses’ experiential accounts. *Lapum J, Fredericks S, Mincevski V, Yau T: Ryerson New Faculty.* ($10,000 2010 - 2012)

Harnessing the immune system to achieve cardiac restoration by allogeneic cell transplantation. *Li R-K: Canadian Institutes of Health Research.* ($698,984 2010 - 2015)

Inflammation, infection, trauma and repair cluster - Canada Research Chair in Cardiac Regeneration. *Li R-K: Canadian Institutes of Health Research.* ($1,400,000 2006 - 2014)


The design and planning of a randomized controlled trial to evaluate a tailored cardiovascular surgical patient education intervention in reducing post-hospital discharge complications and readmission rates. Fredericks SM, Yau TM: Canadian Institutes of Health Research. ($140,000 2011 - 2013)

The effect of acadesine on clinically significant adverse cardiovascular and cerebrovascular events in high-risk subjects undergoing coronary artery bypass graft (CABG) surgery using cardiopulmonary bypass. Yau TM: Schering-Plough Research Institute. ($250,000 2009 - 2011)


HONOURS RECEIVED

Li R-K: CPAC Professional Achievement Award, Chinese Professionals Association of Canada (CPAC), October 2010.

Scully H: Medal of Service (Top Award), Canadian Medical Association, August 2010

Scully H: Annual (Lifetime) Achievement Award (Top Award), Canadian Cardiovascular Society. October 2010.

Weisel RD: Chairman Innovation Fund Provincial Oversight Committee and Showcase, November 2010.
Division Of General Surgery

Dr. M.S. Cattral
Professor

Dr. T. Cil
Assistant Professor

Dr. S. Cleary
Assistant Professor

Dr. J. Escallon
Associate Professor

Dr. A.R. Gagliardi
Assistant Professor

Dr. S. Gallinger
Professor

Dr. A. Ghanekar
Lecturer

Dr. R.M. Gorczynski
Associate Professor

Dr. D. Grant
Professor

Dr. P.D. Grieg
Professor

Dr. T. Jackson
Assistant Professor

Dr. W.L. Leong
Assistant Professor

Dr. D.R. McCready
Professor

Dr. I.D. McGilvray
Associate Professor

Dr. C.A. Moulton
Assistant Professor

Dr. A. Okrainec
Assistant Professor

Dr. R.M. Gorczynski
Professor (Division Head)

Dr. M. Selzner
Assistant Professor

Dr. D. R. Urbach
Associate Professor

Dr. H. Weizel
Associate Professor

Dr. L. Wright
Assistant Professor

Publications


Gagliardi AR, Wright FC: Exploratory evaluation of surgical skills mentorship program designs and outcomes. The Journal of Continuing Education in the Health Professions: October 2010: 30[1]: pp 51-56.


INVITED VISITS

Cil T: McMaster University, Centre for Minimally Invasive Surgery/Cancer Care Ontario, Sentinel Lymph Node Biopsy in Breast Cancer Course, Hamilton, Ontario, Canada, September 2010. Why perform sentinel lymph node biopsy?


Gagliardi AR: Canadian Partnership against Cancer, Montreal, Quebec, Canada, June 2011. Plenary Speaker: Planning for guideline implementation. Responding to distress: Implementing guidelines into routine practice workshop.


Gallinger S: Eastern Canada Colorectal Cancer Consensus Conference (EC5) 2010, Ottawa, Ontario, Canada, October 2010. Chemotherapy and biologics with regard to surgery.


Gallinger S: Canadian Surgery Forum CAGS/CHPBS Symposium: Colorectal Metastases- What Every Surgeon Should Know in 2010, Quebec City, Quebec, Canada, September 2010. Pushing the boundaries of resectability.


Gorczynski RM: Montreux, Switzerland, October 2010. Do MPLA and rapamycin share a common mechanism of action, through altered fetal hemoglobin induction and altered REDOX levels?
Gorczynski RM: Montreux, Switzerland, January 2011. Do MPLA and rapamycin alter REDOX levels in stem cell microenvironments and can control bone metabolism.


Grant D: The Transplantation Society, Vancouver, British Columbia, Canada, August 2010. World-wide morbidity and mortality of living donor liver transplantation.


Grant D: Munich University, Department of Surgery, Munich, Germany, November 2010. Pediatric liver transplantation.

Grant D: Zurich University Hospital, Zurich, Switzerland, December 2010. Role of living donor liver transplantation for hepatocellular carcinoma.

Grant D: Asia Pacific Society, Busan, Korea, January 2011. Living liver donor safety and outcomes: Canadian experience.

Grant D: International Pediatric Transplant Association, Plenary Session, Montreal, Quebec, Canada, June 2011. Plenary Session: Debate: Tolerance: Hope or hype?


McCready DR: Ontario Association of Radiologist (OAR), Breast MRI - Detection and Diagnosis of Breast Cancer in the 21st Century, Toronto, Ontario, Canada, October 2010. Surgeon’s view on breast MRI.

Moulton C-A: Association for Medical Education in Europe, Glasgow, United Kingdom, September 2010. Advances in understanding self-assessment.


Moulton C-A: Karolinska Hospital, CME, Stockholm, Sweden, February 2011. Qualitative research methodology in research practice.

Moulton C-A: Oresund Symposium, Copenhagen, Denmark, February 2011. Slowing down when you should: Key to expert performance.

Moulton C-A: Rigshospitalet Hospital, Copenhagen, Denmark, February 2011. Slowing down when you should: key to expert performance.

Moulton C-A: Clinical Training Centre, Karolinska Institute, Stockholm, Sweden, February 2011. Staying out of trouble in automaticity.


O’Brien C: Jackson Laboratories, Bar Harbour, Maine, USA, October 2010. Colon cancer in murine models and humans III.


Okrainec A: Donestk National Medical University, Donestk, Ukraine, September 2010. The history of telesimulation and its potential role in the Ukraine and Russia.


Okrainec A: Korle-Bu Teaching Hospital, Accra, Ghana, November 2010. (1) Intraoperative considerations in laparoscopy, (2) The role of laparoscopy for managing intra-abdominal emergencies.


Wei AC: Update in General Surgery, University of Toronto, Toronto, ON, April 2011. Liver Metastasectomy: Where is the line in the sand?

Wright L: Canadian Society for Transplantation, Annual Meeting, Vancouver, British Columbia, Canada, August 2010. (1) co-chaired and organized debate, (2) Co-author on one paper: Should Canada share organs with foreign nationals?


Wright L: Canadian Society of Transplantation, Annual Scientific Meeting, Mont Tremblant, Quebec, Canada, March 2011. Co-chair of Ethics Forum.

RESEARCH AND INVESTIGATIONS


Assessment of Risk for Colon Tumors in Canada (ARCTIC). Zanke B., Hudson T, Gallinger S, and 8 others: Ontario Research Fund [ORF]. ($2,200,000 2010 - 2013)

Association between allergy history, immunologic genetic variants and pancreatic cancer risk. Cotterchio M, Gallinger S, Greenwood C: Canadian Institutes of Health Research [CIHR]. ($625,293 2010 - 2013)


Bridging the information gap between patients and physicians for the treatment of colorectal cancer. Kennedy E, Gagliardi AR, Urbach D R: Colon Cancer Canada. ($45,000 2008 - 2010)


Characterizing factors that influence physical activity promotion in primary care by realist systematic review. Gagliardi AR, Abdallah F, Barnsley J, Ciliska D, Faulkner G: Canadian Institutes of Health Research. ($99,455 2011 - 2012)


CIHR Team in Interdisciplinary Research on Colorectal Cancer. McLaughlin J, Gallinger S, and 25 others: Canadian Institutes of Health Research. ($3,627,210 2006 - 2011)

CLP Research Gene expression studies and altered immunoregulation during aging following injection of MPLA in humans. Gorczynski R: CLP Research. ($200,000 2010 - 2012)


Developing capacity for knowledge translation: Identifying and evaluating factors that improve the effectiveness of practice guideline implementation. Gagliardi A: Canadian Institutes of Health Research. ($300,000 2008 -2013)

Developing interprofessional knowledge exchange capacity for health services research. Gagliardi AR, Paige CJ, Dobrow MJ: Canadian Institutes of Health Research. ($24,093 2010 - 2011)


Development of an integrated surgical skills course- supporting complex communication and procedural skill acquisition. Tabak D, Moulton CA, MacRae H, LeBlanc V: NESTCL. ($68,000 2008 - 2010)


Early Researcher Award. Moulton CA: Ministry of Research and Innovation. ($105,000 2011 - 2013)


Evaluating compliance with enhanced recovery after surgery procedures at a network of teaching hospitals. Okrainec A, Aarts MAW, Chung FT, Siddiqui NT, Gagliardi AR, McLeod RS: Colon Cancer Canada. ($35,000 2010 - 2011)


Evaluation of an online CME resource for sentinel lymph node biopsy. Cill T, Tail G, McCready DR: University of Toronto, Faculty of Medicine, Continuing Education Research and Development. ($4,654 2010 - 2011)


Expansion of the Gattuso Rapid Clinic for Breast Cancer. McCready DR: Slaight and Gattuso Family Foundation and Princess Margaret Hospital Foundation. ($2,000,000 2009 - 2018)


Gattuso Rapid Diagnostic Clinic for Breast Cancer. *McCready DR: Telus Corporation. ($500,000 2010)


Guideline implementation: Developing collaborative capacity for rapid cycle research and application. *Gagliardi AR, Bombardier C: Canadian Institutes of Health Research. ($322,000 2011 – 2014)


Identification and development of therapeutic agents targeting solid tumor stem cells. *Wainberg Z, Pan J, Noel BC, O’Brien C, Dirks P, Kombhum H, Eaves C, Mak T, Slamon D: California Institute of Regenerative Medicine (CIRM)/Canadian Institutes of Health Research/Genome Canada-combined Canada-California grant. Each group receives 20 million dollars over 4 years. Of the money coming to Canada, approximately 800,000-1,000,000 dollars per year will be received. This grant involves a group of senior investigators in Toronto, San Francisco, and Los Angeles. ($3,500,000 2010 – 2014)


Improving post-transplant outcomes in Hepatitis C: Identifying biomarkers and therapeutic targets. *Selzner N, McGilvray I: Roche Organ Transplantation Research Foundation. ($100,000 2011 – 2012)


Judgments and health innovation: How do upstream knowledge transfer and exchange among stakeholders contribute to the design of innovations. Lehoux P, Denis J, Miller F, Urbach DR, Williams-Jones B: Canadian Institutes of Health Research. ($528,453 2010 - 2013)


Life Sciences research in space simulation using a bed rest model. Gorczynski R, [with Dr. Hughson et al]: Joint initiative of Canadian Institutes of Health Research: Canadian Space Agency (CIHR-CSA). ($200,000 2009 - 2012)

Molecular pathogenesis of Hepatitis C viral infection. McGilvray I, Heathcote J: Canadian Institutes of Health Research. ($377,000 2009 - 2012)

mRNA expression analysis of cultures from eOSTEO mission [flown in space September 2007]. Gorczynski R: Canadian Space Agency (CSA). ($200,000 2010 - 2013)

Non-alcoholic fatty liver disease: Role of fatty acid composition and gene expression. Allard J, McLaughay I, Guindi M, Therapondos G: Canadian Institutes of Health Research. ($354,783 2008 - 2011)

Normothermic ex vivo liver perfusion as a novel strategy to assess and repair marginal grafts. Selzner M: Roche Organ Transplant Research Foundation (ROTRF). ($300,000 2010 - 2013)


Pressures on surgeons to "measure up" with their effects on surgical judgment. Moulton CA, Matimianakis T, Kitto S, Murnaghian L: Physicians Services Inc. ($98,000 2011 - 2013)

Prioritizing research on interventions to prevent and reduce surgical device-based adverse events. Gagliardi AR, Urbach D, Lehoux P, Ross S, Ducey A: Canadian Institutes of Health Research. ($24,628 2011 - 2012)

Quantifying the effect of notch inhibition on tumor-initiating cells in early phase clinical trials of gamma-secretase inhibitor (Roche R04929097) in advanced, triple negative breast cancer and other solid malignancies. Reedijk M, Tsao M, Sui L, Ailles L, Oza A: Ontario Institute for Cancer Research. ($720,000 2010 - 2012)

Randomized clinical trials for breast cancer. McCreary DR: National Adjuvant Breast and Bowel Project (NSABP). ($21,100 2010)


Role and Regulation of Cancer Stem Cells in HCC: Implications for Liver Transplantation. Ghanekar A: Multi-Organ Transplant Program Academic Enrichment Fund. ($100,000 2009 - 2011)
Role of CD200:CD200R interactions in regulation of cardiac transplant survival [H & S]. Gorczynski R: Heart and Stroke Association. ($290,000  2010 - 2013)

Role of sCD200 in diagnosis, prognosis and treatment in CLL. Gorczynski R: Canadian Institutes of Health Research. ($550,000  2010 - 2015)

Role of sCD200 in predicting graft rejection in liver transplant recipients. Gorczynski R: Physicians Services Inc. (PSI). ($185,000  2010 - 2012)

Role of immediate dendritic cell precursors in allograft rejection and tolerance. Cattral MS: Heart and Stroke Foundation. ($230,082  2008 - 2011)

Slowing down when you should: A new model of expert surgical judgment. Moulton CA, Regehr G, MacRae H: Physicians’ Services Incorporated. ($41,000  2007 - 2010)

Storage, assessment, and repair of liver grafts for transplantation using ex vivo liver perfusion. Selzner M: Astellas Academic Enrichment Fund. ($100,000  2010 - 2012)


The prevalence and correlates of cancer-related fatigue in colorectal, breast and prostate cancer survivors. Jones JM, Howell D, Catton P, Fleschner N, McCreaddy DR, Olson K: Canadian Institutes of Health Research. ($100,000  2010 - 2011)


HONOURS RECEIVED

Escallon J: Wightman-Berris Academy Excellence in Teaching Award. 2011


Moulton C-A: Best Poster Presentation [CREMS Scholar Category], February 2011.

Moulton C-A: Consortium of Bioethics Education - Favourites Reading List Author, April 2011.


Moulton C-A: Early Researcher Award, Ministry of Research and Innovation, May 2011.

Division Of Neurosurgery

Dr. M. Bernstein       Professor
Dr. K. D. Davis        Professor
Dr. J. Eubanks         Associate Professor
Dr. M. Fehlings        Professor
Dr. F. Gentili         Professor
Dr. A. Guha            Professor
Dr. C. Hamani          Assistant Professor
Dr. M. Hodaie          Assistant Professor
Dr. W. Hutchison       Associate Professor
Dr. K. Johnston        Assistant Professor
Dr. A. Lozano          Professor
Dr. E. Massicotte      Associate Professor
Dr. C. Tator           Professor
Dr. M. Tymianski       Professor
Dr. T. Valiante        Assistant Professor
Dr. A. Velumian        Assistant Professor
Dr. M.C. Wallace       Professor (Division Head)
Dr. G. Zadeh           Lecturer

PUBLICATIONS


INVITED VISITS

Bernstein M: Cleveland Clinic Ethics Symposium, Cleveland, Ohio, USA, October 2010. Ethical issues around awake brain surgery.


Bernstein M: Medical University of South Carolina, South Carolina, USA, November 2010. Thomas Pitts Lectureship.

Bernstein M: Tokyo Rosai Hospital, Tokyo, Japan, December 2010. Visiting Professor.

Bernstein M: University of Ibadan, University College Hospital, Ibadan, Nigeria, February 2011. Visiting Professor - Deception, surgeon, qualitative research”.

Bernstein M: Korle Bu Teaching Hospital, University of Ghana, Accra, Ghana, January 2011. Visiting Professor - "Patient safety and errorin the world of the surgeon”.


Davis KD: International Association for Study of Pain (IASP), Montreal, Quebec, Canada, August - September 2010. (1) Session Chair of Joint Neuropathic Pain and Orofacial Pain Special Interest groups, (2) Neuropathic pain: Focus on oro-facial mechanisms and quantitative sensory testing. A tribute to Professor Ronald Dubner.

Davis KD: Society for Neuroscience, 40th Annual Meeting, Nanosymposium Chair, San Diego, California, USA, November 2010. (1) Nanosymposium Chair, (2) Seeing and feeling pain.


Fehlings MG: University of California San Francisco, Sonoma, California, USA, July 2010. Neurosurgery 2010 in the Wine Country: (1) New concepts in the pathophysiology and treatment of cervical spondylotic myelopathy, (2) Repair and regeneration of the injured spinal cord - What is new on the horizon?


Fehlings MG: Congress of Neurological Surgeons, San Francisco, California, USA, October 2010. Invited talk: Current management of spinal cord injury.

Fehlings MG: University of California Los Angeles, David Geffen School of Medicine, Los Angeles, California, USA, October 2010. Dawson Memorial Lectureship: Repair and regeneration of the injured spinal cord from molecule to man.


Fehlings MG: Rick Hansen Foundation and Queensland Office of Health and Medical Research, Bridging the Gap Breakfast Event, Brisbane, Australia, November 2010. Translational research in spinal cord injury: Where are the Opportunities?


Fehlings MG: Federation of Spine Associations, Spine Special Day at the American Association of Orthopaedic Surgeons (AAOS) Meeting, San Diego, California, USA, February 2011. (1) The spinal cord, (2) Early decompression: Safety and efficacy?


Fehlings MG: Seoul National University Bundang Hospital, 3rd Spine Centre Symposium of Spinal Disorder, Seoul, South Korea, February 2011. (1) High cervical fractures and injuries, (2) Spinal cord injury.


Fehlings MG: American Association of Neurological Surgeons, Denver, Colorado, April 2011. Management of patients with CNS hemorrhage who have a medical need for anticoagulation.


Fehlings MG: NeuroDevNet, Keynote Address, Toronto, ON, May 2011. Repair and regeneration of the brain with stem cells in cerebral palsy: Hope or hype?


Fehlings MG: University of Medicine and Dentistry of New Jersey, New Jersey Medical School, Newark, New Jersey, USA, May 2011. Repair and regeneration of the injured spinal cord from a translational perspective: What’s hot? What’s new?


Guha A: Society of Neurooncology, Inaugural Victor Levin Award Lecture, Montreal, Quebec, Canada, November 2010. Perspectives of a clinician-scientist and a cancer patient.

Hamani C: University of Rochester, Division of Neurosurgery, Rochester, New York, USA, November 2010. Translational research on deep brain stimulation for depression.

Hamani C: British Stereotactic and Functional Neurosurgery Group, Bristol, United Kingdom, March 2011. Subgenual cingulum DBS: Clinical and translational aspects.

Hamani C: Charité University, Department of Psychiatry, Berlin, Germany, April 2011. Translational research on deep brain stimulation.

Hamani C: University of Amsterdam, Department of Psychiatry, Amsterdam, Netherlands, May 2011. Translational research on deep brain stimulation.

Hamani C: Asian-Australasian Society for Stereotactic Functional Neurosurgery, Jeju, South Korea, June 2011. DBS and memory.


Hamani C: University of Maastricht, Department of Neuroscience, Maastricht, Netherlands, November 2010. Translational research on deep brain stimulation.


Lozano AM: Consorci Universitat International Menendez Pelayo de Barcelona (CUIMPB), Centre Ernest Barcelona Summer Course - Brain and Cognition V: Cognitive Enhancement, Barcelona, Spain, July 2010. Guest Speaker, Electrical stimulation of the brain and cognitive enhancement in humans with mental pathologies.


Lozano AM: Clinical Neuroscience Center Inauguration Conference, Haifa, Israel, October 2010. Guest Speaker: Neurosurgical approaches.


Lozano AM: University of Rochester, Deep Brain Stimulation: Motor Systems and Beyond Symposium, Rochester, New York, USA, October 2010. Guest Speaker: Modulation of cognitive circuits with DBS.


Lozano AM: Stanford University, Department of Neurosurgery, Neuromodulation Symposium, Guest Lecturer, Stanford, California, USA, February 2011. Deep brain stimulation for cognitive enhancement.

Lozano AM: University of Virginia, Charlottesville, Virginia, USA, February 2011. Visiting Professor, Surgery for psychiatric disorders: Dubious past and hope or hype for the future.


Lozano AM: Boston Society of Neurology and Psychiatry, Denny Brown Lecturer, Boston, Massachusetts, USA, May 2011. DBS for depression.


Lozano AM: Quebec Symposium on Neurodegenerative Diseases Therapeutics, Plenary Lecturer, Quebec, Quebec, Canada, May 2011. Plenary Lecture: Modulating the activity of human brain circuits with deep brain stimulation.


Lozano AM: National Hospital for Neurology and Neurosurgery, Guest Lecturer, Queens Square, London, United Kingdom, June 2011. Guest Lecturer: Functional neurosurgery; From movement to mood to memory.


Tator CH: Community Foundation of Kingston and Area, Kingston, Ontario, Canada, October 2010. Making our community safer.

Tator CH: Kingston General Hospital, Neurosciences Rounds, Queen’s University, Maitland Baldwin Memorial Lecturer, Kingston, Ontario, Canada, October 2010. What do you know about concussions?

Tator CH: Mayo Clinic Ice Hockey Summit, Action on Concussion, Rochester, Minnesota, USA, October 2010. Effective implementation of concussion education across sectors in ice hockey.


Tator CH: University of Washington, Harborview Medical Center, 9th Annual Harborview Medical Center Spine Symposium, Seattle, Washington, USA, October 2010. (1) A brief history of research in spinal cord injury: A personal journey. (2) Spinal cord injury research where do we go from here?


Tymianski M: Canadian Society for Clinical Investigators (CSCI)/Clinician Investigator Trainee Association of Canada (CITAC), Annual Conference and Young Investigators Forum, Ottawa, Ontario, Canada, September 2010. Guest Speaker: Work + Research - Clinician Scientist perspective.


Tymianski M: Kyoto University, Biomembrane and Channels GCOE Symposium, Kyoto, Japan, December 2010. Guest Speaker: Progress on the effects of TRPM7 and TRPM2 inhibition on ischemic cell damage.


Tymianski M: International Stroke Conference, Los Angeles, California, USA, February 2011. Moderator: Junior Investigator Session II.


Tymianski M: State University of New York (SUNY), Upstate Medical University, Department of Neurosurgery, Neuro Research Day 2011, Guest Speaker, Syracuse, New York, USA, April 2011. Neuroprotection in acute ischemic stroke.

Tymianski M: University Hospital, Department of Clinical Neurosciences, Geneva, Switzerland, May 2011. Guest Speaker: (1) PSD95 inhibitors for procedurally induced and acute ischemic strokes, (2) EC-IC bypass in moy-a-moya and steno-occlusive disorders.


Valiante T: McMaster University, Medical School, PGME Multidisciplinary Academic Day, Hamilton, Ontario, Canada, February 2011.

Wallace C: International Society of Radiographers and Radiological Technologists (ISRRRT), 11th Annual Interventional Neuroradiology Symposium, Toronto, Ontario, Canada, September 2010. Surgical management of small size (<3mm) ruptured aneurysms.


Zadeh G: MacMaster Hospital, Annual Thoracic Oncology Meeting-Cancer Centre Event, Niagara-on-the-Lake, Ontario, Canada, April 2011. Approach to the management of oligometastatic disease in lung cancer.


**RESEARCH AND INVESTIGATIONS**

A bioengineered approach to enhance recovery following severe traumatic spinal cord injury [PSI# 10q2119]. Fehlings MG, Shoichet M: The Physicians’ Services Incorporated Foundation. ($154,800 2010 - 2012)

A cellular and molecular strategy to unlock the regenerative reservoir of the notochordal cell: A novel approach to treat intervertebral disc degeneration. Erwin WM, Fehlings MG, Irman R: AOSpine International. ($30,000 2010 - 2011)

A clinical evaluation for the management of patients with chronic or recurrent treatment resistant major depressive disorder with deep brain stimulation. Kennedy S, Lozano AM: St. Jude Medical Inc. ($480,000 2009 - 2011)

A combinatorial strategy to optimize neural repair and plasticity after chronic spinal cord injury [KB1-0807-2]. Karimi S, Fehlings MG, Rossignol S: Christopher and Dana Reeve Foundation. ($149,495 2009 - 2010)


Adult derived neural precursor cells transplanted into the acutely injured spinal cord promote recovery of somatic and autonomic nerve function. Sathunendararajah K, Fehlings MG: Ontario Neurotrauma Foundation. ($90,000 2009 - 2011)


Antidepressant effects of deep brain stimulation in animal models: Symptom specificity and mechanisms of action. Nobrega J, Hamani C: Ontario Mental Health Foundation. ($150,000 2009 - 2011)


Attenuated NMDA receptor development in MeCP2-deficient mice: Relevance to Rett syndrome. Eubanks JH, Zhang L, Broottie J: Canadian Institutes of Health Research. ($610,225 2006 - 2011)


Canada Research Chair in Neuroscience Tier 1. Lozano, AM: Canada Instutes for Health Research. ($1,400,000 2005 - 2012)

Cardiovascular research. Tymianski M: Pfizer, The Jean Davignon Distinguished Cardiovascular, Metabolic Search Award. ($100,000 2010)


Clinician scientist fellowship, Phase I. Gelareh Z: Canadian Institutes of Health Research. ($75,000 2009 - 2010)

Commercial development of bioengineered therapeutic strategy for spinal cord. Shoichet MS, Fehlings MG: Canadian Institutes of Health Research. ($159,996 2010 - 2011)

COSAR-hUTC delivery of HAMC carrier for spinal cord injury treatment. Tator CH, Shoichet M: Johnson & Johnson Pharmaceutical Research & Development, LLC. ($110,000 2010)


Deep brain stimulation in an animal model of depression. Hamani C, Nobrega J: National Alliance for Research in Schizophrenia and Depression (NARSAD), Young Investigator Award. ($60,000 2010- 2012)


Development of small molecule inhibitors of TRPM7 for myocardial ischemia. Tymianski M: Pfizer Cardiovascular Research Award: The Jean Davignon Distinguished Cardiovascular-Metabolic Research Award. ($100,000 2010)


Diffusion-based tractography and structural brain imaging in trigeminal neuralgia: Correlation with quantitative sensory testing and response to treatment. Hodaie M, Davis K: The Physicians’ Services Incorporated Foundation. ($154,000 2009 - 2011)

Diffusion-based tractography and structural brain imaging in trigeminal neuralgia: Correlation with quantitative sensory testing and response to treatment. Hodaie M, Davis KD: Physicians’ Services Incorporated Foundation. ($154,000 2009 - 2011)

Discovery of biomarkers to guide individualized therapy of brain metastases. Menard C, Zadeh G: Canadian Brain Tumor Foundation. ($25,000 2010 - 2011)

Dopamine and synaptic plasticity in human substantia nigra pars reticulata. Hutchinson WD, Dostrovsky JO, Moro E, Hodaie M, Lozano AM: Canadian Institute of Health Research (CIHR). ($490,745 2009 - 2014)


Evaluation of effective stimulation parameters for seizure control in rats with thalamic deep brain stimulators, using a pilocarpine seizure model. Hodaie M, Lozano A: University of Toronto, Dean’s Fund New Staff Grant. ($9,800 2005 - 2010)

Examination of the neuroprotective role of IgG for spinal cord injury. Fehlings MG: Baxter Healthcare Corporation. ($125,000 2010 - 2012)

Examination of the neuroprotective role of IgG for spinal cord injury. Nguyen DH, Fehlings MG: Canadian Institutes of Health Research. ($17,500 2009 - 2010)


Examining the molecular profile of bone invading meningiomas. Zadeh G: Brain Tumor Foundation of Canada. ($25,000 2011 - 2012)


Global Blueprint for stem cell innovation, translation & commercialization. Fehlings MG: SCI Solutions Network. ($276,000 2010)

Global Blueprint for translation of stem cells into patients with spinal cord injury. Fehlings MG, Baptiste D: Ontario Neurotrauma Foundation. ($55,000 2010)


Human studies of pain perception. Davis KD, Tenenbaum HC, Diamant NE: Canadian Institutes of Health Research. ($726,452 2007 - 2012)


Investigation of induced pluripotent stem cells, derived by novel, non-viral transposition reprogramming, as a regenerative strategy for spinal cord remyelination [NHG-99090]. Fehlings MG, van der Kooy D, Nagy A: Canadian Institutes of Health Research. ($299,424 2009 - 2012)

Investigation of induced pluripotent stem cells, derived by novel, non-viral transposition reprogramming, as a regenerative strategy for spinal cord remyelination. Salewski R, Fehlings MG: Ontario Neurotrauma Foundation. ($46,000 2009 - 2011)


Investigations of the expression, activation and functional relevance of receptor mediated targets of nilotinib in pediatric high-grade gliomas. Guha A, Hawkins C: Novartis. ($15,000 2011 - 2012)


Microenvironment induced molecular heterogeneity in glioblastoma multiforme [GBM]. Guha A: Canadian Institutes of Health Research. ($125,000 2008-2012)

Minimally invasive drug delivery strategy for acute spinal cord injury repair. Shoichet M, Tator CH: Canadian Institutes of Health Research (CIHR). ($156,004 2008-2012/$50,000 Dr. Tator’s Portion)

Neural Development and Repair Network [NeuroDevNet]. Goldowitz D, Fehlings MG, et al [over 70 names]: Networks of Centres of Excellence. ($19,572,000 2009 - 2014)


Neuroprotective approaches to enhance recovery in cervical spondylotic myelopathy [MOP-97852]. Fehlings MG: Canadian Institutes of Health Research. ($378,105 2009 - 2012)

Neuroprotective and regenerative bioengineered approaches for the treatment of spinal cord injury. Austin JW, Fehlings MG: Canadian Institutes of Health Research. ($150,000 2009 - 2012)

New emerging team in spinal cord injury research. Fehlings MG: Krembil Foundation. ($1,500,000 2006 - 2011)


Non-invasive MRI biomarkers of response to combinatorial therapy with SUTENT and RT. Menard C, Zadeh G: Canadian Association of Radiation Oncology (CARO), RACZER Award. ($20,000 2009 - 2010)


North American clinical trials network for the treatment of spinal cord injury. Fehlings MG, Tator CH: Christopher Reeve Foundation. ($178,000 2010)

On-line international educational courses in neurosurgery. Hodaie, M: The Integra Foundation/Foundation for International Education in Neurological Surgery [FIENS]. ($4,000 2010 - 2011)

Pain-attention interactions and the descending pain modulation system. Davis KD: Canadian Institutes of Health Research. ($626,420 2010 - 2015)


PiggyBac-induced pluripotent stem cells for regeneration following spinal cord injury. Salewski R, Fehlings MG: Canadian Institutes of Health Research. ($117,850 2011)


Pre-clinical evaluation of nilotinib in vestibular schwannomas. Guha A: Novartis. ($11,000 2009 - 2010)

Pre-clinical studies on neurological function after spinal cord injury exploring cell transplantation as a potential therapy. Fehlings MG: Create Cord Blood Bank Inc. ($365,829 2011 - 2014)

Protein nitration in traumatic and ischemic brain damage. Tymianski M: Canadian Institutes of Health Research. ($668,700 2006 - 2011)


Regenerative medicine strategies of spinal cord repair. Fehlings, MG, Morshed C, Shoichet MS, Stanisz G, van der Kooy D, Tator CH: Krembil Neuroscience Centre. ($1,500,000 2006 – 2011/ $50,000 Dr. Tator’s portion).

Regenerative medicine strategies for spinal cord injury repair with integration of stem cell biology, nanotechnology, bioengineering, imaging approaches and neurosurgical application. Fehlings MG: Krembil Foundation. ($1,500,000 2011 - 2014)


Rick Hansen Spinal Cord Injury Registry (RHSCIR), SCI Solutions Network (SCISN). Fehlings MG: Rick Hansen Foundation. ($120,000 2009 - 2011)


Role of bone marrow derived cells in brain tumor angiogenesis. Zadeh G: B.r.a.i.n.child. ($30,000 2010)

Role of TRM7 channels in myocardial ischemia. Tymianski M: Heart and Stroke Foundation of Ontario. ($377,015 2010 - 2013)

Role of TRPM channels in ischemic brain damage. Tymianski M: Canadian Institutes for Health Research [CIHR]. ($900,000 2008 - 2013)
Schering-Plough Canada Unrestricted Educational Grant: Canadian Virtual Brain Tumor Bank. Guha A: Merck-Schering Plough Canada. (§25,000 2010-2011)

Signal processing of EEG for detection and classification of clinical brain states. Valiante TA, Bardakhjian B, Carlen P: Mitacs-Accelerate Cluster Award. (§60,000 2011-2012)

Spatial and temporal characterization of hippocampal memory processes: Studies in the normal brain and individuals with medial temporal-lobe epilepsy and excisions. Valiante T, McAndrews MP, Cohn M, Protzner A: Canadian Institutes of Health Research. (§240,000 2009-2012)

Spinal cord regeneration. Tator CH: Canadian Paraplegic Association. (§46,230 2010-2011)


The impact of age on inflammation, neural apoptosis and axonal survival after spinal cord injury in man [FA2-0802-2], Furlan JC, Fehlings MG, Dietrich WD, Noreenberg M, Croud S: Christopher and Dana Reeve Foundation. (§120,057 2009-2011)

The ischemic axon: cross-talk with myelin in K+ channel terms [T 6328]. Fehlings MG, Velumian AA: Heart and Stroke Foundation. (§253,167 2008-2011)

The living myelin sheath: Functional organization and role in dynamic modulation of axonal function in CNS. Velumian AA, Fehlings, G: Natural Sciences and Engineering Research Council of Canada [NSERC]. (§125,000 2008-2013)

The mammalian sirtuin Sirt3: Mediator of longevity. Eubanks J: Canadian Institutes of Health Research. (§50,000 2009-2010)


Toronto Western Hospital Spinal Program. Fehlings MG: DePuy Spine, Johnson & Johnson Medical Products, a division of Johnson & Johnson, Inc. (§160,000 2009-2010)


Translational stroke research. Tymianski M: Canada Research Chairs Grant, Tier I. (§200,000 2010-2017)


TRPM7 Inhibitors for the treatment of stroke and myocardial ischemia. Tymianski M: Ministry of Research and Innovation, Ontario Research Fund-Research Excellence Round 5. (§1,474,417 2011-2016)

Unilateral pedunculopontine deep brain stimulation in progressive supranuclear palsy. Moro E, Hamani C, Lozano A, Strafella A, Chen R: CurePSP Foundation. (§192,600 2009-2011)

University of Toronto Spine Collaborative (UTSpineLINK). Fehlings MG: Ministry of Health and Long-Term Care. (§98,010 2009-2011)

Unrestricted educational grant. Guha A: Merck-Schering Plough Canada/Canadian Virtual Brain Tumour Bank. (§25,000 2010-2011)
HONOURS RECEIVED


Fehlings MG: Inaugural recipient of The Gerry and Tootsie Halbert Chair in Neural Repair and Regeneration, June 2011.

Fehlings MG: 3rd Place Clinical Science Award from the Cervical Spine Research Society for his paper, Anterior vs. posterior surgical approaches to treat cervical spondylotic myelopathy: Outcomes of the prospective multicenter AOSpine North America CSM study in 280 patients, December 2010.


Tator CH: American Spinal Injury Association (ASIA), Lifetime Achievement Award, for his contribution to the world of spinal cord injury care, presented at the International Congress on Spinal Cord Medicine and Rehabilitation in Washington, District Columbia, June 2011.

Tator CH: Appreciation Award of the Ontario Women’s Hockey Association for outstanding contributions to the OWHA for over 20 years, and for the work in the areas of research prevention and management of spinal and brain injuries, May 2011.

Tator CH: Dr. Tator was named One of Canadas Top Sports Personalities, in the Globe and Mail’s Sports Power 50 List, February 2011.

Tator CH: Global Impact Award, University Health Network, June 2011.

Tator CH: Maitland Baldwin Memorial Lecturer, Queen’s University, Kingston, Ontario, October 2010.

Tator CH: Outstanding Achievement Award, The Medico-Legal Society of Toronto, in recognition of significant contributions to the society, the professions and the community at large, May 2011.

Tymianski M: Pfizer Cardiovascular Research Award: The Jean Davignon Distinguished Cardiovascular - Metabolic Research Award. $100,000.00, July 2010.


Zadeh G: Clinician Scientist Award from the American Society for Radiation Oncology, October 2010.
Division Of Orthopaedics

Dr. R.J. Davey  Associate Professor
Dr. W.M. Erwin  Assistant Professor
Dr. R. Gandhi  Assistant Professor
Dr. B.A. Graham  Assistant Professor
Dr. J. Lau  Assistant Professor
Dr. S.J. Lewis  Assistant Professor
Dr. N.N. Mahomed  Professor (Division Head)

Dr. K. Marshall  Assistant Professor
Dr. D. Ogilvie-Harris  Associate Professor
Dr. Y. Rampersaud  Associate Professor
Dr. K. Syed  Lecturer
Dr. C.H. Veillette  Assistant Professor
Dr. H.P. von Schroeder  Associate Professor

PUBLICATIONS


INVITED VISITS

Davey JR: Division of Orthopaedic Surgery, Wascana Club, Regina, Saskatchewan, July 2010. Triathlon Design Rationale. Triathlon TS Revision TKA.


Erwin WM: American Association of Orthopaedic Medicine, Denver, Colorado, USA, August 2010. The use of growth factors and stem cells in orthopaedic medicine.

Erwin WM: University of British Columbia, Vancouver, British Columbia, Canada, September 2010. Regenerative medicine applications to intervertebral disc disease.


Lau JTC: University of Michigan, 10th Annual Foot & Ankle Lectureship, Ann Arbor, Michigan, USA, September 2010. Assessment and treatment of accessory navicular and tarsal coalition.

Lau JTC: Third Military Medical University, 1st Annual Foot and Ankle Conference, Chongqing, China, October 2010. (1) Ankle fracture revisions and syndesmotic injuries, (2) Surgical treatment of diabetic foot complications. (3) Hallux rigidus: Fusion or replacement?


Lau JTC: Canadian Orthopaedic Resident Forum, Calgary, Alberta, Canada, April 2011. Foot & Ankle Review.

Lau JTC: Third Military Medical University, 1st Annual Foot and Ankle Conference, Chongqing, China, October 2010. Surgical treatment of diabetic foot complications.

Lewis SJ: Glenrose Rehabilitation Hospital, Edmonton, Alberta, Canada, November 2010. (1) Acute and chronic management spine trauma patients, (2) Planning osteotomies: The science of spinal alignment, available algorithms, and how to determine the necessary re-alignment for the pediatric deformity patient, (3) Pros and cons of reductions in high grade spondylolisthesis.


Marshall KW: Delhi, India, July 2010. Multimodal non-arthroplasty management of knee OA.


Rampersaud YR: Medtronic, Sunnyvale, California, USA, August 2010. Course Chairman: Current Techniques in Minimal Access.


Rampersaud YR: University of Louisville, Department of Orthopaedic Surgery, Louisville, Kentucky, USA, January 2011. Comparative effectiveness for surgical management of spinal stenosis.


RESEARCH AND INVESTIGATIONS


A multi-centered randomized controlled study on vanguard regenerex tibial tray in total knee arthroplasty. Syed K, Mahomed N, Gandhi R, Davey JR: Biomet Canada. ($360,000 2009-2013)


Biological effects of DRS upon intervertebral disc nucleus pulposus cells. Erwin W: Skoll Foundation. ($120,000 2009-2010)


Fluid Lavage of Open Wounds (FLOW): A multi-center, blinded, factorial trial comparing alternative irrigating solutions and pressures in patients with open fractures. Bhandari M, Syed K, Guyatt G, Tanetta P, Schemitsch E, Liew S: United States Army Institute of Surgical Research Orthopaedic Trauma Research Program (OTRP); Association internationale pour l’Osteosynthése Dynamique (AIOD); Canadian Institutes of Health Research. ($50,000 2010-2011)


Identification of loci and genes in patients with osteoarthritis in hip and knee. Syed K, Mahomed N, Gandhi R, Davey J: Toronto Western Hospital, Department of Orthopedic Surgery. ($5,000 2010-2011)


Intervertebral disc-derived multipotent stem cell rescue of the injured spinal cord. Erwin WM, Fehlings MG: AO-Spine. ($30,000 2011-2012)

Minimal Access Ambulatory Spine Surgery Research and Education Program. Rampersaud YR: Toronto General and Western Foundation. ($1,000,000 2007-2012)
Open and arthroscopic stabilization for anterior shoulder instability in Ontario. Ogilvie-Harris D, Wasserstein D, Dwyer T, Mahomed N, Gandhi R, Veillette C: University Health Network, Division of Orthopaedics. ($25,000 2011)


Regenerative approach to the treatment of intervertebral disc disease. Erwin W: Skoll Foundation. ($624,000 2010 - 2013)

HONOURS RECEIVED

Division Of Plastic And Reconstructive Surgery

Dr. D. Anastakis  Associate Professor
Dr. P. Bray  Assistant Professor
Dr. B. Graham  Assistant Professor
Dr. S. Hofer  Associate Professor
[Division Head]

Dr. C. Novak (PhD)  Associate Professor
Dr. H.P. von Schroeder  Associate Professor
Dr. T. Zhong  Lecturer

PUBLICATIONS


INVITED VISITS

Anastakis DJ: International Federation of Societies for Surgery of the Hand, 11th Triannual Congress, Seoul, South Korea, October 2010. (1) Chair, Oral Presentations, (2) Cutting your nerve changes your brain.

Anastakis DJ: American Association for Hand Surgery (AAHIS) / American Society for Peripheral Nerve (ASPN) / American Society for Reconstructive Microsurgeons (ASRM), 41st Annual Meeting, Cancun, Mexico, January 2011. (1) Abstract /Poster Session Moderator, (2) Instructional Course Chair: Cortical plasticity and changes with nerve injury.


RESEARCH AND INVESTIGATIONS


Defining the structural integrity of decellularized tracheal allografts. Haykal S, Hofer SOP, Waddell T: The Physicians’ Services Incorporated Foundation. ($19,000 2010 - 2011)


Impact of psychosocial factors and treatment choice on return to work in carpal tunnel syndrome. Binhammer PA, Dvali LT, von Schroeder HP, Anastakis DJ: American Foundation for Surgery of the Hand. ($16,000 2009 - 2010)


Pre-existing patient factors associated with sensorimotor recovery, chronic pain, and brain plasticity following surgical repair of peripheral nerve injuries. Davis KD, Anastakis DJ, Katz JD: Workers’ Safety and Insurance Board, Research Advisory Counsel. ($348,273 2011 - 2014)


HONOURS RECEIVED

Anastakis DJ: The Wightman-Berris Academy, Award for Individual Teaching Excellence 2010-2011, University of Toronto, Faculty of Medicine, May 2011.


Zhong T: William K. Lindsay Faculty Research Mentor Award, Division of Plastic Surgery, University of Toronto, June 2011.
Division Of Thoracic Surgery

Dr. G. Darling  Professor
Dr. M. de Perrot  Associate Professor
Dr. S. Keshavjee  Professor
Dr. M. Liu  Professor
Dr. M. McKneally  Professor
Dr. A. Pierre  Assistant Professor
Dr. T. Waddell  Professor (Division Head)
Dr. K. Yasufuku  Assistant Professor

PUBLICATIONS


INVITED VISITS


Keshavjee S: Beth Israel Medical Center, Newark, New Jersey, September 2010. State-of-the-art in lung transplantation: Molecular diagnostics and ex vivo organ repair.


Keshavjee S: Chinese University of Hong Kong and Prince of Wales Hospital, Hong Kong, China, November 2010. Dr. Anthony PC Yim Visiting Professor in Minimally Invasive Surgery and Innovative Technology: (1) Ex vivo repair and regeneration of lungs for transportation, (2) Surgical management of end stage pulmonary disease.


Keshavjee S: Canadian Society of Transplantation, Mont Tremblant, Quebec, March 2011. Expanding the lung donor pool through gene therapy.


Waddell TK: Vienna Medical University, Vienna, Austria, December 2010. Visiting Professor.


Waddell TK: University of Colorado, Denver School of Medicine, 8th Vail Cardiothoracic Transplantation Meeting, Vail, Colorado, USA, January 2011. Humoral immunity in lung transplantation.


Waddell TK: University of Maryland, 2nd Annual Hales Lung Conference, Maryland, Baltimore, USA, May 2011. Regenerative medicine approaches to the lung and airway.

Waddell TK: Kyoto University, Kansai Association for Thoracic Surgery, Osaka, Japan, June 2011. Lung regeneration.


Yasufuku K: EUS 2010, Shanghai, China, November 2010. 1) Faculty - EBUS training course - EUS 2010/Lectures: [a] Why is mediastinal staging important?, [b] EBUS-TNA results, 2) Hands-on training instructor.


Yasufuku K: Lahey Clinic, Interventional Pulmonology, The 28th Year, Burlington, Massachusetts, USA, April 2011. (1) Faculty/Introductory Course Lecturer: EBUS II - TBNA Scope: Thoracic ultrasound for pulmonologist, (2) EBUS live case moderator, (3) Hands-on workshop (EBUS-TBNA), EBUS case studies.


RESEARCH AND INVESTIGATIONS

Cell replacement therapy for cystic fibrosis. Waddell T: Canadian Cystic Fibrosis Foundation. ($245,000 2010 - 2012)


Ex-vivo gene repair of injured donor lungs for transplantation. Keshavjee S: Wyeth Pharmaceuticals/Canadian Institutes of Health Research, Rx&D Clinical Research Chairs: Transplantation ($1,100,000 2008 - 2013)


Impact of recipient lung gene expression profiles on primary graft dysfunction incidence and survival after lung transplantation for pulmonary fibrosis. de Perrot M, Keshavjee S, Mura M, Anraku M: Multi-Organ Transplant, Academic Enrichment Fund. ($100,000 2009 - 2011)


Lung progenitor cell profiling in the development of bronchiolitis obliterans syndrome. Waddell TK: Roche Organ Transplant Research Foundation. ($212,000 2011 - 2014)

Molecular and genomic diagnostic to improve outcomes in lung transplantation(GL2-01-019). Keshavjee S: Ministry of Health. ($1,750,000 2010 - 2015)

Molecular diagnostic strategies for the selection of donor lungs for transplantation. Keshavjee S: Roche Organ Transplantation Research Foundation (ROTRF). ($300,000 2009 - 2012)


Research in thoracic intervention. Yasufuku K: Olympus Medical Systems Corporation/University Health Network. ($250,000 2010 - 2011)


The role of bone marrow progenitors in lung regeneration. Waddell, TK: Canadian Institutes of Health Research (CIHR). ($685,000 2007 - 2012)

The role of galectin-3 in xenograft rejection. Waddell TK: Heart and Stroke Foundation of Ontario. ($275,934 2007 - 2010)

Tissue remodelling and the immune response in obliterative bronchiolitis after lung transplantation. Keshavjee S: Canadian Cystic Fibrosis Foundation. ($270,000 2009 - 2012)

Translational and clinical studies in mesothelioma. de Perrot M, Feld R, Tsao M: Imperial Oil Foundation. ($500,000 2009- 2014)


HONOURS RECEIVED

Waddell TK: Lister Prize, Department of Surgery, University of Toronto, June 2011.
Division Of Urology

Dr. A. Finelli     Assistant Professor
Dr. N. Fleshner   Professor (Division Head)
Dr. M. Hassouna   Professor
Dr. M. Jewett     Professor
Dr. A. Matthew   Assistant Professor
Dr. S. Radomski  Professor
Dr. M. Robinette  Associate Professor
Dr. J. Trachtenberg  Professor

PUBLICATIONS


INVITED VISITS

Finelli A: Congress of the Russian Association of Oncological Urology, Moscow, Russia, October 2010. (1) The role of preoperative tyrosine kinase inhibitor therapy. (2) What’s new in kidney cancer?


Finelli A: Kidney Research Network of Canada (KCRNC), 3rd Canadian Kidney Cancer Forum, King City, Ontario, Canada, January 2011. (1) Imaging studies with neoadjuvant targeted therapy, (2) Kidney cancer quality of care indicators workshop report.


Fleshner NE: Canadian Urology Association, Montréal, Quebec, Canada, June 2011. Use of 5 alpha reductase inhibitors in clinical practice.


Hassouna MM: Johnson & Johnson, New Jersey, USA, October 2010. Transdermal stimulation for sacral nerves in rodent animal-model.


Hassouna MM: The Brazilian Neuromodulation Society, Goania, Brazil, November 2010.


Hassouna MM: Canadian Neuromodulation Society, Vancouver, British Columbia, Canada, June 2011. Chair of Session on Pelvic Neuromodulation


Jewett MAS: 1st International Kidney Cancer Coalition Meeting; Expanding Circles in Supporting Kidney Cancer, Frankfurt, Germany, September 2010. Registries, tumour banks, genetics and other research projects.


Jewett MAS: Regina Family Practice Symposium, Regina, Saskatchewan, Canada, March 2011. Benign prostate hypertrophy.


Jewett MAS: Canadian Urological Association, Annual Meeting, Montreal, Quebec, Canada, June 2011. Non-risk adapted surveillance in clinical stage I non-seminomatous germ cell tumours (NSGCT): The Princess Margaret Experience.

Matthew AG: Prostate Cancer Canada Network (PCCN), Toronto, Ontario, Canada, November 2010. Psychosocial aspects of prostate cancer.

Matthew AG: York University, Department of Psychology, Toronto, Ontario, Canada, February 2011. Health psychology and oncology.


Matthew AG: Canadian Association of Psychosocial Oncology, Toronto, Ontario, Canada, May 2011. Loss of sexual health and intimacy in patients/couples following radical prostatectomy.


Trachtenberg J: Prostate Cancer Canada Network, 2010 National Prostate Cancer Conference, Toronto, Ontario, Canada, September 2010. Recent research and medical advances.


RESEARCH AND INVESTIGATIONS


A multicentre, double-blind, randomized, placebo-controlled, parallel-group study of the safety and efficacy of a single treatment of BOTOX followed by a treatment with BOTOX as applicable in patients with idiopathic overactive bladder with urinary incontinence. Radomski SB: Allergan. ($45,000 2010-2011)

A multicentre, long-term follow-up study of the safety and efficacy of BOTOX in patients with idiopathic overactive bladder with urinary incontinence. Radomski SB: Allergan. ($60,000 2010-2013)


Canadian BRCA1/2 Prostate Cancer Network. Bristow R, Trachtenberg J, Sridhar S, Narod S: Prostate Cancer Canada. ($20,000 2009 - 2010)


Farquharson Chair in Kidney Cancer Research. Jewett MAS: Princess Margaret Hospital Foundation. ($5,000,000 2006 - 2016)


In bore robotic assisted image - guided focal ablation of prostate cancer. Trachtenberg J, Haider M, Goldenberg A, Kucharczyk W: Princess Margaret Hospital Foundation / Barry Rose Foundation. ($1,000,000 2008 - 2010)


Krescent postdoctoral fellowship. Jewett MAS, Gallie BL: Kidney Foundation of Canada. ($165,000 2009 - 2012)


Princess Margaret Hospital GU biobank REDUCE specimen project. Fleshner N, Evans A, Bristow R: Prostate Cancer Research Foundation. ($150,000 2010 - 2011)
Prostate Cancer Prevention Clinic. *Trachtenberg J, Matthew AG, Horsburgh S: The Princess Margaret Hospital Foundation. [$1,000,000 2005 - 2011].*


Reduction in progression among men on watchful waiting using dutasteride. *Fleshner N, REDEEM Study Group: Glaxo Smith Kline. [$8,000,000 2006 - 2011]*


The development of a prostate cancer prevention clinic (Phase II). *Trachtenberg J, Horsburgh S, Matthew A, Ritvo P, Squire J: The Princess Margaret Hospital Foundation. [$1,000,000 2005 - 2011]*

The prevalence and correlates of cancer-related fatigue in colorectal, breast and prostate cancer survivors. *Jones J, Fleshner N: Canadian Institutes of Health Research. [$100,000 2010 - 2011]*


Utilizing metformin to enhance the efficacy of androgen deprivation therapy in prostate cancer. *Venkateswaran V, Fleshner N, Klotz L: Prostate Cancer Canada. [$119,996 2010 - 2012]*

Utilizing metformin to enhance the efficacy of androgen deprivation therapy in prostate cancer. *Venkateswaran V, Fleshner N, Klotz L: Canadian Institutes for Health Research. [$92,605 2010 - 2012]*

Wyeth/Canadian Institutes of Health Research Clinical Research Chair in Oncology. *Jewett M: Canadian Institutes of Health Research. [$1,100,000 2008 - 2013]*

**HONOURS RECEIVED**

*Finelli A:* Faculty Postgraduate Teaching Award Clinical, Division of Urology, Department of Surgery, University of Toronto, June 2011.

*Jewett MAS:* Distinguished Contribution Award (awarded for outstanding contributions to the science and treatment of urological malignancy), American Urological Association. May 2011.

*Jewett MAS:* Chair, Canadian GU Cancers Survivorship Conference 2011 “Foster the Partnership”, January 2011.

*Jewett MAS:* Chair, Canadian Kidney Cancer Forum 2011, January 2011.

*Jewett MAS:* Society of Urological Oncology Medal awarded for significant contribution to the field of urological malignancy, specifically in kidney and testicular cancer, May 2011.

*Jewett MAS:* Canadian Urological Association Award, in recognition of outstanding contributions to the advancement of the art and science of Urology in Canada and beyond as a clinician teacher and leader throughout his career, June 2011.

*Jewett MAS:* University of Toronto Postgraduate Teaching Award – Surgical, in recognition of being instrumental in the individual development of postgraduate trainees, a role model during their training and having the greatest impact on their development as urologist and physicians, June 2011.

*Matthew AG:* Moderated Poster Award: First Place, June 2011.
Division Of Vascular Surgery

Dr. K.W. Johnston  Professor
Dr. T. Lindsay  Professor (Division Head)
Dr. G. Oreopoulos  Assistant Professor
Dr. G. Roche-Nagle  Assistant Professor

Dr. B. Rubin  Professor
Dr. L.W.H. Tse  Assistant Professor
Dr. L. Wooster  Professor

PUBLICATIONS


INVITED VISITS


Lindsay TF: Instituto Nacional De Ciencias Medicas Y Nutricion Salvador Zubiran, Mexico City, Mexico, February 2011. (1) Aortic aneurysm rupture, (2) EVAR fenestrated and branched cases.


Rubin BB: Goethe University, Frankfurt, Germany, September 2010. (1) Role of microsomal prostaglandin E2 synthase-1 in left ventricular remodeling, (2) State of the art - role of prostaglandins in left ventricular remodeling after myocardial infarction.

Tse LWH: University of Manitoba, Winnipeg Vascular & Endovascular Symposium, Winnipeg, Manitoba, Canada, April 2011. Angiosome concepts.

Tse LWH: Les Entretiens Vasculaires du Quebec (EVXXIX), Montreal, Quebec, Canada, June 2011. Heparin induced thrombocytopaenia in the presence of a heparin bonded bypass graft [presented by Fellow, Dr. M. Wheatcroft].


RESEARCH AND INVESTIGATIONS


Complement mediated organ injury following ruptured abdominal aortic aneurysm: Human and animal investigations leading to pilot intervention studies. Lindsay TF: The Physicians’ Services Incorporated Foundation. ($80,000 2010 - 2011)


Endovascular stent graft measuring - an online education tool. Roche-Nagle G: John L. Provan Education Award. ($5,000 2010)


Role of Group V and Group X secretory phospholipase A2 in the innate immune responses to pulmonary bacterial infection. Rubin B: Canadian Institutes of Health Research. ($388,520 2009 - 2013)

Role of Group V and Group X secretory phospholipases A2 in myocardial infarction. Rubin B: Canadian Institutes of Health Research. ($428,342 2009 - 2013)


HONOURS RECEIVED

Johnston KW: First George Louridas Memorial Lecture, April 2011.

Lindsay TF: Ross Fleming Surgical Educator Award, for Excellence in Surgical Education - presented by University Health Network, April 2011.

Roche-Nagle G: 2nd Place Case Competition for Entry: Heparin induced thrombocytopaenia in the presence of a heparin bonded bypass graft (Wheatcroft MD, Greco E, Tse L, Roche-Nagle G) at Entretiens Vasculaires XXIX, June 2011.


Roche-Nagle G: 2011 Allied Health Research Funding Award for project - Participation in Acute Rehabilitation and its implications following lower extremity amputation: A mixed-methods study, February 2011.

Wooster DL: Canadian Society for Vascular Surgery Sigvaris President’s Award, September 2010.
Women’s College Hospital
John Semple, Surgeon-in-Chief

HEADS OF DIVISIONS

Dr. M.H. Brown  Associate Professor  
Dr. T. Cil  Assistant Professor  
Dr. E. Grober  Assistant Professor  
Dr. G.Y. Hiraki  Assistant Professor  
Dr. L. Lickley  Professor  
Dr. L. Murnaghan  Assistant Professor  
Dr. J. Theodoropoulos  Lecturer

Surgical programs, with a focus in Ambulatory Care, continue to be a dominant theme in the evolving structure of Women’s College Hospital as this institution continues to progress as an Academic Ambulatory Surgical Centre that is fully integrated with the hospital’s primary ambulatory strategic plan and current services. Women’s College Hospital is a designated facility for ambulatory surgery in the Toronto Central LHIN. Women’s College is developing a fully academic affiliated site for inter-professional research and education in ambulatory surgery focused on minimally invasive and specialized ambulatory procedures in subspecialty areas of cancers common in women, including Breast Cancer/ Breast Reconstruction and Thyroid Cancer. Women’s College continues to develop a citywide focus in Orthopaedic Sports Medicine and building surgical strength in our core programs of Urology, Orthopaedics, Plastic Surgery and General Surgery.

NEW STAFF

Twenty three surgeons from eight different hospitals now work at Women’s College Hospital in our key areas. We are actively recruiting in orthopaedics, plastic surgery and general surgery.

DEPARTURES

Dr. George Hiraki retired from the Department of Surgery at Women’s College Hospital after over 40 years of service. He has been a major figure in our Department of Surgery and was well recognized for his wide scope of practice and his passion for teaching.

ORTHOPAEDIC SPORTS MEDICINE

Dr. Darrell Ogilvie-Harris has been appointed Director of the University of Toronto, Department of Surgery Orthopaedic Sports Medicine Program. Since WCH has become one of the primary hubs for orthopaedic sports medicine within this city-wide network and a primary training site for orthopaedic residents in this subspecialty, Dr. Ogilvie-Harris spends considerable time with us.

DIVISIONAL ACTIVITIES

Dr Ethan Grober successfully passed his three-year review. Having six different research grants keeps him busy.

Dr. Mitch Brown chaired the 11th Annual Toronto Breast Surgery Symposium held this past April. Women’s College Hospital continues to host international candidates under the Allergan Breast Reconstruction clinical fellowship.

EDUCATION

Women’s College provides a unique surgical education setting because of its ambulatory mandate. Currently being developed is an ambulatory curriculum with learning objectives specific to ambulatory surgery. The experience rated by undergraduate, resident, fellows and CME is excellent. Teaching volumes have steadily increased over the transition period. A Simulation Education Centre has been established in a multidisciplinary content, with a primary contribution by Orthopaedic Surgery.

Women’s College is now the primary rotation for Orthopaedic Sports Medicine residents at the University of Toronto Orthopaedic Sports Medicine.

Rounds are now broadcast around the province via the Ontario Telemedicine Network.

RESEARCH

The seven core surgeons at Women’s College Hospital hold a total of 13 active research grants through 2010-2011. They are engaged in a variety of clinical and basic research. Several of them supervise residents and fellows in projects and graduate degree programs.
Division Of General Surgery

Dr. T. Cil  Assistant Professor
Dr. G.Y. Hiraki  Assistant Professor
Dr. L. Lickley  Professor

INVITED VISITS

Cil T: McMaster University, Centre for Minimally Invasive Surgery/Cancer Care Ontario, Sentinel Lymph Node Biopsy in Breast Cancer Course, Hamilton, Ontario, Canada, September 2010. Why perform sentinel lymph node biopsy?

RESEARCH AND INVESTIGATIONS

Evaluation of an online CME resource for sentinel lymph node biopsy. Cil T, Tait G, McCready DR: University of Toronto, Faculty of Medicine, Continuing Education Research and Development. ($4,654 2010 - 2011)

Division Of Orthopaedics

Dr. L. Murnaghan  Assistant Professor
Dr. J. Theodoropoulos  Lecturer

PUBLICATIONS


INVITED VISITS


Theodoropoulos J: International Skeletal Society, Athens, Greece, September-October 2010. (1) MRI and meniscal pathology, (2) Ankle arthroscopy.


RESEARCH AND INVESTIGATIONS


Division Of Plastic And Reconstructive Surgery

Dr. M.H. Brown  Associate Professor
Dr. J.L. Semple  Professor

PUBLICATIONS


INVITED VISITS


RESEARCH AND INVESTIGATIONS


Division Of Urology

Dr. E. D. Grober  Assistant Professor

PUBLICATIONS


INVITED VISITS


RESEARCH AND INVESTIGATIONS

Canadian Urological Association Scholarship. Grober E, Jewett MAS: Canadian Urological Association Scholarship Foundation. [$40,000 2009-2011]


Validation of real-time, intra-operative, surgical competence [RISC] assessments linked to patient outcomes. Grober ED, Jewett MAS, Lorenzo A. Association for Surgical Education. CESERT. [$25,000 2010 - 2012]
Division Of Anatomy
Cindi Morshead, Chair

Dr. A. Agur  Professor
Dr. B. Ballyk  Senior Lecturer
Dr. P. Koeberle  Assistant Professor
Dr. J. Laprade  Lecturer

Dr. C.M. Morshead  Associate Professor
Division Head
Dr. H-S Sun  Assistant Professor
Dr. I.M. Taylor  Professor
Dr. M.J. Wiley  Professor

PUBLICATIONS


**INVITED VISITS**

Koeberie PD: International Society for Eye Research, XIX Biennial Meeting, Montreal, Quebec, Canada, July 2010. Role of caspase-6 in retinal ganglion cell apoptosis and axon regeneration.


Morshead C: Canadian Institutes of Health Research, Café-Scientifique, Toronto, Ontario, Canada, November 2010. Adult stem cells and regenerative medicine: Separating hope and hype.

Morshead C: York University, Public Lecture sponsored by Learning Unlimited, Toronto, Ontario, Canada, February 2011. The truth about stem cells.


Morshead C: Festival of International Conferences on Caregiving, Disability, Aging and Technology (FICCDAT), Advances in Neurorehabilitation, Toronto, Ontario, Canada, June 2011. Enhancing brain repair: The molecules, the behavioural and the aged brain.


Sun H-S: International Union of Basic and Clinical Pharmacology (IUPHAR), World Congresses of Pharmacology, Denmark, July 2010. Award Recipient.

**RESEARCH AND INVESTIGATIONS**


Bioengineered cell delivery systems. Tator C, Morshead C, Shoichet M: Collaborative Health Research Projects (CHRP), Natural Sciences and Engineering Council of Canada (NSERC), Canadian Institutes of Health Research (CIHR). ($658,000 2011-2014)

Biomechanical and cellular changes within the rat gastrocnemius muscle and calcaneal tendon post tenotomy. Do traumael injections make a difference? Sauks K, Agur A: Holistic Health Research Foundation of Canada, Canadian CAM Research Fund. ($4,858 2010-2011)


Engineering stem cell delivery to treat spinal cord injury. Nagy A, Morshead C, Shoichet M: Department of Defense (DOD), USA. ($100,000 2010-2011)

Focal adhesion kinase: A pivotal role in CNS apoptosis and regeneration: Koeberle PD: Canadian Institutes of Health Research. ($450,000 2011-2014)


Repairing the injured spinal cord. Morshead C, Fehlings M, and 4 others: Krembil Foundation. ($1,500,000 2011-2014)

Role of TRPM7 and TRPM2 channels in neuronal development and regeneration. Sun HS: Natural Sciences and Engineering Research Council of Canada (NSERC). ($28,000/year 2011-2016)
The effect of a three-dimensional scapular-humeral mobilization technique and protocol on the reduction of hemiplegic shoulder pain. 


The impact of ATP-sensitive potassium channels on stroke in diabetes and their therapeutic implications. 

Sun HS: Heart and Stroke Foundation of Ontario (Canada). ($128,720 2011-2013)

The role of extracellular matrix interactions in adult CNS neuroprotection. 

Koeberle PD: Canadian Institutes of Health Research. ($247,217 2008-2011)

HONOURS AND AWARDS

Agur A: Best Presentation Award for “High precision surface reconstruction of human bones from point-sample data. Data and creation of a three-dimensional representation of the wrist at the 2011 Summit on Human Simulation (ISHS) in Florida. 2011.


Sun H-S: Marlene Reimer Brain Star of the Year Award, Canadian Institutes of Health Research (CIHR), Institute of Neurosciences, Mental Health and Addiction (INMHA) Canada. 2010.
Research In Education

Dr. R.R. Sonnadara  Assistant Professor
Dr. N. Woods  Assistant Professor

PUBLICATIONS


INVITED VISITS


RESEARCH AND INVESTIGATIONS


## Cross Appointments

<table>
<thead>
<tr>
<th>Name</th>
<th>Department</th>
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<tbody>
<tr>
<td>Dr. A.J. Baker</td>
<td>(Anaesthesia)</td>
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<td>Dr. B. Bapat</td>
<td>(Laboratory Medicine and Pathobiology)</td>
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<td>Dr. P. Birek</td>
<td>(Dentistry)</td>
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<td>Dr. A. Campbell</td>
<td>(Medicine)</td>
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<td>Dr. J. Carson</td>
<td>(Family and Community Medicine)</td>
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<tr>
<td>Dr. W.A. Cassar-Demajo</td>
<td>(Anaesthesia)</td>
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<td>Dr. A. Daar</td>
<td>(Public Health Sciences)</td>
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<td>Dr. A. Damyanovich</td>
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<td>Dr. J.E. Davies</td>
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<td>Dr. A.D. DePetrillo</td>
<td>(Obstetric and Gynaecology)</td>
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<td>Dr. E. Diamandis</td>
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<td>Dr. R.J. Eby</td>
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<td>Dr. V.L. Fornasier</td>
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<td>Dr. J. Freeman</td>
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<td>Dr. R. Gilbert</td>
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<td>Dr. M. Greenberg</td>
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