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Dr. J.L. Semple
Women’s College Hospital

University Division Chairs

Dr. M.J. Wiley
Anatomy

Dr. R.D. Weisel
Cardiac Surgery (until June 30, 2009)

Dr. C. Caldarone
Cardiac Surgery (effective July 1, 2009)

Dr. Z. Cohen
General Surgery | Bernard and Ryna Langer Chair (until June 30, 2009)

Dr. A. Smith
General Surgery | Bernard and Ryna Langer Chair (effective July 1, 2009)

Dr. J.T. Rutka
Leslie Dan Professor and Chair of Neurosurgery

Dr. B. Alman
A.J. Latner Professor and Chair of Orthopaedic Surgery

Dr. D.J. Anastakis
Plastic Surgery

Dr. S. Keshavjee
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

Richard K. Reznick
R.S. McLaughlin Professor and Chair

This marks the seventh time I have written this report as Chair of this Department and as in the past there is no lack of things for me to comment upon. It has been a year filled with financial challenges and yet we have managed to have another fantastic year with many research, academic and clinical achievements to celebrate. As always, I am exceptionally grateful to our faculty for being so dedicated and our Department’s senior executive for their continuing wise counsel and support.

This past year we have continued an aggressive pace of recruitment with the addition of 18 new appointees to the Department. I would like to welcome the following individuals:

Margaret Akens (research SHSC), Tulin Cil (general surgery UHN-PMH), Leodante da Costa (neurosurgery SHSC), Ralph George (general surgery SMH), Anand Ghanekar (general surgery UHN-TGH and HSC), Rebecca Gladdy (general surgery MSH), Clement Hamani (neurosurgical research UHN-TWH), Sharifa Himidan (general surgery HSC), Judi Laprade (anatomy), Bernard Lawless (general surgery SMH), Todd Mainprize (neurosurgery SHSC), Diane Nam (orthopaedic surgery SHSC), Catherine O’Brien (general surgery UHN-TGH), Giuseppe Papia (cardiac and vascular surgery SHSC), Ranil Sonnadara (research Surgical Skills Centre), Leonard Tse (vascular surgery UHN-TGH), Kazuhiro Yasufuku (thoracic surgery UHN-TGH), and Toni Zhong (plastic surgery UHN-TGH).

We have also had a successful year with respect to promotions. Promoted to the rank of Full Professor were Drs. Chris Caldarone, Gail Darling, Peter Dirks, Andras Kapus, Peter Kim, Ron Levine, James Mahoney, Sid Radomski, Carol Swallow and Doug Wooster. Promoted to the level of Associate Professor were Drs. Gideon Cohen, Marc De Perrot, Annie Fecteau, Ted Geristle, Raja Rampersaud, Paul Wales and Frances Wright. Finally, elevated to the rank of Assistant Professor were Drs. Vern Campbell, Martin Roscoe and Wayne Tanner. The standards for promotion in our department and at our university are as stringent as any other institution I know and I would like to congratulate each and every one of our promotees.

This past year saw our faculty win a huge number of external and internal awards, too many to list in this column. However, I would like to make specific mention of a few. Two surgeons received two of the highest educational awards offered by our Faculty: Dr. Shaf Keshavjee (the Colin B Woolf Award for excellence in Long-Term Contributions to CME) and Dr. Chris Wallace (the Aikens Award for Excellence in Postgraduate Medical Education). Other prestigious awardees include Marvin Tile who was appointed as a Member of the Order of Canada and Robert Cartotto who won The Royal College of Physicians and Surgeons Medal in Surgery. Peter Dirks, James Rutka, Michael Taylor et al received a $1 million dollar grant from Pediatric Brain Tumor Foundation. Geoff Fernie was inducted into the Terry Fox Hall of Fame. Andres Lozano received the March of Dimes Jonas Salk Award and was elected as Fellow to The Royal Society of Canada (now known as the Academies of Arts, Humanities and Sciences of Canada.) Charles Tator was elected to the Canadian Medical Hall of Fame and Michael Taylor was named as one of the Top 40 Under 40.

This past year, we lost two dear and respected colleagues. A mention of their passing does not do justice to the magnitude of their contributions. Suffice it to say, we will all miss and remember with respect and fondness, Michael Baida (general surgery), Philip Klotz (urology) and Leslie Farkas (plastic surgery).

This past year we have also seen the transfer of divisional leadership from Zane Cohen to Andy Smith in General Surgery and from Richard Weisel to Chris Caldarone in Cardiac Surgery. I cannot thank Zane and Richard enough for all of their contributions in their respective divisions. I would also like to congratulate the following individuals in their new leadership roles: Karen Davis, Associate Director of the Institute of Medical Science; Yaron Shargall, Associate Director, Undergraduate Education for Distributed Learning; and Michael Fehlings and Albert Yee, Inaugural Co-Directors of the University of Toronto Spine Program.

Our educational programs continue to flourish under the terrific leadership of David Latter, Ron Levine,
David Backstein, Sid Radomski, Nikki Woods and now Yaron Shargall. We have close to 200 fellows in our eight clinical divisions from over 59 countries around the world. Allan Okrainec and Georges Azzie have extended our educational outreach by teaching laparoscopy in Botswana using a telesimulation program. I think it is fair to say that when it comes to educational research we can reliably claim to be amongst the world’s best.

Our research mission continues to do well and, under Ben Alman’s leadership, we continue to make great gains in the quality and quantity of the enterprise. Departmental funding for research last year alone was $33 million in external grants and contracts.

We also continue to make fundraising a top priority for the Department. This past year $1.4 million was raised, thanks to the hard work of Nancy Collett. We are actively working towards creating new relationships with donors and creating fellowships. Neil Fleshner was named the inaugural Love Chair in Prostate Cancer Prevention Research at University Health Network and Michael Jewett became the inaugural Anna-Liisa Parquharson Chair in Kidney Cancer Research and Shaf Keshavjee received the F.G. Pearson and R.J. Ginsberg Chair in Thoracic Surgery.

Our surgical-scientist program is flourishing and I am pleased to announce that this year marks 25 years since its inception. I am very excited to announce that we are planning on celebrating the program and its successes in a gala event next year. We should all be justifiably proud of this program which trains between 35-40 surgeon scientists each year, is the engine behind a huge number of scholarly publications, and which provides us with phenomenal “home grown” talent for recruitment.

In the following paragraphs I would like to mention four new initiatives that have taken place in the last academic year. These programs have the potential to bring innovation to the department and are efforts that illustrate just what can be accomplished when our university and our teaching hospitals band together across the city to push forward change.

This year we launched the University of Toronto Collaborative Bariatric Program. There has been overwhelming evidence, accrued in the last decade, that obesity is an epidemic in North America. This chronic disease poses an enormous health care burden to our society and surgery can save lives. With only 300 cases being done in Toronto and almost 1000 patients leaving the province, a made in Ontario solution was needed. The formula for success was to put together a program that would build on the initial success at Humber River Regional Hospital, make a dent in the number of cases we need to do, not cannibalize any one hospital and take advantage of our University of Toronto collaborative spirit. And that is exactly what was done. We brought six institutions together, developed a proposal to the ministry and received a funding agreement to perform 900 cases per year in Metro Toronto. Ultimately we will focus on interdisciplinary team care, keeping our eye on the research and training balls while delivering high quality coordinated surgical care. This initiative is a prime example of a cross departmental / cross hospital endeavour that highlights the co-participation possible in our academic enterprise between our fully affiliated and partially affiliated teaching hospitals.

Since 2002/2003 we have been planning and dreaming of developing a new approach to residency training. I am ecstatic to report that we have started such program this past July. With extraordinary dedication from Bill Kraemer, Peter Ferguson, Ben Alman and a virtual army of orthopaedic educators, we have put together a modular competency-based curriculum that has no parallel in the world. We have accepted 3 exceptional residents who will experience an orthopaedic residency program in a very different way from anyone before them. If the program is successful, they will be followed by three residents in 2010, three more the year after and so on. The program has received generous financial support from the Ministry of Health and Long Term Care. This support will enable us to truly push the limits of a new vista in residency education. The initial feedback of the program has been positive and we look forward to the potential of expanding it to other divisions.

The third new initiative relates to the establishment of a University of Toronto Spine Program. This program, which will bring together the spine surgeons from 4 hospitals, will be co-led by Michael Fehlings and Albert Yee. Its mandate is multi-factorial: to coordinate educational programs, to harmonize fellowships, to facilitate multi-institutional trials and to act as an advocacy group for spinal surgery in Toronto.

Finally, Don Berwick, from the Institute of Healthcare Improvement (IHI) recently heralded the surgical checklist project of the World Health Organization as one of the most significant advances in the last 30 years. Bryce Taylor and I had the good fortune to be involved in this project, promoting Toronto General Hospital as one of eight pilot sites around the world. Through Bryce’s indefatigable efforts, he orchestrated the use of the checklist in 1000 patients, 500 without the checklist and 500 with it. The results, which we published in the New England Journal, were staggering and showed significant reductions in morbidity and mortality in the checklist group.

Despite the financial crisis, despite provincial deficits, despite endowment challenges, we have not been idle. Quite the contrary, we have been creative, on budget, successful in research and education, and have forged ahead with our plans to be one of the most innovative and successful departments on the continent. I am personally grateful to each and every member of the Department for their hard work, dedication and incredible encouragement and enthusiasm for the initiatives we are undertaking.
Research

Benjamin Alman
Vice-Chair / A.J. Latner Professor and Chair in Orthopaedic Surgery

Research accomplishments by faculty clinician and non-clinician scientists carry on the departmental research endeavors and hold its strong tradition of research excellence. In addition to engaging in phenomenal research, they established new grounds to reinforce their research in education, clinical epidemiology, applied engineering, and fundamental biology.

There are over 40 non-clinician scientists in the department, each proving that their work is not only recognized internally but nationally and internationally. To name a few, Geoff Fernie was inducted into the Terry Fox Hall of Fame, Karen Davis was appointed Associated Director for the Institute of Medical Science and elected to the Johns Hopkins Society of Scholars. Glenn Regehr won the 2008 Award for Outstanding Achievement in the Evaluation of Clinical Competence by the Medical Council of Canada. Andras Kapus was promoted to Full Professor.

Despite the challenges encountered on a yearly basis to successfully receive funding for research, our productivity is growing at an astounding speed. There have been hundreds of publications from our faculty members, including many in the highest impact journals. Our faculty has given research presentations throughout the globe and participated in over a hundred national and international research meetings. Notwithstanding the increased competitiveness of research funding from the Canadian Institutes of Health Research, the department continues to receive increasing support from this agency, with over to $9,482,295 in funding received this past academic year. Our total research funding continues to exceed that of even many of the Universities in Canada, exceeding $33,000,000 this year. This funding is not limited to one division or one hospital, but is distributed throughout the faculty, showing the strong integration of research throughout the entire department.

The Surgeon Scientist Program continues to grow, with over thirty residents participating this year. Over 80% of our Surgeon Scientist Program participants were successful in receiving full or partial salary support from external granting agencies. Johnson & Johnson Medical Products continues to support the Surgeon Scientist Program, providing funding to four trainees for 2008-09 (Wigdan Al-Sukhni, Patricia P.S. Lee, Demitre Serletis, Adrienne C. Weeks.)

The theme for this year’s Gallie Day was surgical education. The day included a symposium entitled “Competent Cutting: From Concept to Implementation of Competency Based Education and Training (CBET)” Symposium Chair was J. Ted Gerstle (Program Director, Division of Pediatric and Thoracic Surgery, The Hospital for Sick Children/University of Toronto.) Participants included Richard Reznick (Chair, Department of Surgery), Jason Frank (Associate Director, Specialty Standards, Policy & Development, Office of Education, RCPSC), and William Kraemer (Program Director, Division of Orthopaedic Surgery, University of Toronto.) They gave persuasive talks on the new potential role of competency based training in surgery, the perspective of the RCPSC, and development and implementation of a competency-based curriculum in orthopaedic surgery.

The Gordon Murray Lecturer, Oscar Traynor, Director of Education at the Royal College of Ireland Department of Surgical Training, gave a captivating lecture entitled, “Surgeons are born, not made. Right.”

There were 10 platform presentations and 50 poster presentations from trainees who were members of the Surgeon Scientist Program or non-residents training in research with our departmental faculty members. The Gallie Bateman Awards (for Surgeon Scientist Program participants), the McMurrich Awards and the Wyeth Awards (for any trainee working with a member of the faculty of surgery) were judged for both platform presentations and poster presentations. The diversity of the topics and types of trainees highlighted the diverse, yet high quality, research being conducted in our department. There was a much larger than usual attendance, and for much of the day there was a standing room only crowd.

The Gallie Bateman Award for best work by a trainee in the Surgeon Scientist Program went to Paul Kongkham – “A combined epigenetic and genetic genome-wide screen identifies SPINT2 as a novel tumour suppressor gene in medulloblastoma” (Supervisor: Dr. James T. Rutka), 2nd prize to Adrian W. Laxton – “Single neurons in the human subgenual cingulated differentiate emotion
categories” (Supervisor: Dr. Andres M. Lozano), 3rd prize to Kristen Davidge – “Function and health status following soft tissue reconstruction for limb preservation in extremity soft tissue sarcoma” (Supervisors: Drs. Jay S. Wunder and Aileen Davis).

There was a tie for first place for the McMurrich Award, given for the best fundamental science work by any level trainee working with a member of our department. This went to Carla Rosario – “The tumor suppressor Plk4 regulates cell motility and cytokinesis via RhoA-dependent remodeling of the actin cytoskeleton” (Supervisor: Dr. Carol Swallow) and Alvin C. Lin – “Modulating hedgehog signaling can attenuate the severity of osteoarthritis” (Supervisor: Dr. Benjamin A. Alman). Second place was awarded to Louisa Ho – “Genetic events involved in the progression of enchondroma to chondrosarcoma” (Supervisors: Drs. Jay S. Wunder & Benjamin A. Alman). There was a two-way tie for third place: Phedias Diamandis – “Heterogeneous and equilibrating lineage primed states coordinate asynchronous gene activation in neural stem cells pools” (Supervisor: Dr. Peter B. Dirks); András Masszi – “Interplay between myocardin-related transcription factor and SMAD3: A critical checkpoint during epithelial-myofibroblast transition” (Supervisor: Dr. András Kapus).

The Wyeth Awards for best clinical epidemiology or education-based research poster was awarded to Jaskarndip Chahal – “Generalization ligamentous laxity as a predisposing factor for primary anterior shoulder dislocation” (Supervisor: Dr. Daniel B. Whelan); and Syndie Singer – “Ankle arthroplasty and ankle arthrodesis – A prospective gain analysis” (Supervisor: Dr. Timothy Daniels.)

Faculty research awards went to Sevan Hopyan (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), Robert Nam (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), Glenn Regehr (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 Abhijit Guha (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).

Faculty accomplishments in the past year were beyond belief. 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. Some of the highlights from the past year include: Peter Kim who holds over $3.5 million in grants from the Ministry of Research and Innovation and $5.4 million from the Canadian Foundation for Innovation; Geoff Fernie received over $2.5 million, and Richard Weisel received over $7.5 million from CIHR. Charles Tator was elected to the Canadian Medical Hall of Fame, and Michael D. Taylor was named to Canada’s Top 40 under 40 list for 2009.

The Departmental Research Committee continued 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 reorganizing Galie Day and research educational activities. A non-clinician scientist retreat is being organized by Andras Kapus and Val Cabral for this year end.

Research will always play a leading role in our department and we have made extraordinary 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 2008-2009 academic year was rich in educational achievement for our Department. The 6 direct entry programs (Cardiac Surgery, General Surgery, Neurosurgery, Orthopedic Surgery, Plastic Surgery, and Urology), and our 5 subspecialty surgical programs (Thoracic Surgery, Vascular Surgery, Pediatric General Surgery, Colorectal Surgery, and General Surgery Oncology) all continue to produce the finest surgeon graduates. The Program Directors and the Program Coordinators of our 11 programs merit recognition of their efforts. This list includes: Dr. David Latter and Ms. Willa Hart of Cardiac Surgery, Dr. Najma Ahmed and Ms. Miriam Strzinar of General Surgery, Dr. Chris Wallace and Ms. Sandi Amaral of Neurosurgery, Dr. Bill Kraemer and Mr. Dan Stojimirovic of Orthopedic Surgery, Dr. Mitch Brown and Ms. Cathy Pavlovic of Plastic Surgery, Dr. Robert Stewart and Ms. Antonella Iannaccio of Urology, Dr. Gail Darling and Ms. Lisa Spatafora of Thoracic Surgery, Dr. Thomas Lindsay and Ms. Leah Gabriel of Vascular Surgery, Dr. Ted Gerstle and Ms. Shannon Hannah of Pediatric General Surgery, Dr. Marcus Burnstein and Ms. Wendy Bell of Colorectal Surgery, and Dr. Carol Swallow and Ms. Jane Hanes of General Surgery Oncology. Dr. Ronald Levine, who serves as the Postgraduate Director, oversees this dedicated team.

All 6 of our direct entry program easily filled their PGY 1 CaRMS match positions. The majority of our matches were with our top-ranked applicants. The IMG program continues to grow. Visa trainees also continue to grow in numbers in our department. With Canadian medical graduates, international medical graduates and visa trainees, the department has 45 PGY 1 residents, with a total of 256 residents in training. This represents the largest training program in the country.

The Competency Based Curriculum in Orthopedic Surgery underwent final plans this past year. The Royal College sanctioned the initiation of this program set to begin in the 2009-2010 academic year. With this system, orthopedic residents will "graduate" from their training/education modules when they demonstrate proficiency in that module. Graduation will not be time-dependent, but rather proficiency dependent. Three PGY 1 orthopedic residents were selected to begin this novel training method for July 2009. Dr. Kraemer, the Program Director, and all the teaching surgeons of the Division of Orthopedics, deserve our full support as they undertake this exciting initiative which represents a truly significant change in the methodology of how we train surgeons.

In the spring of 2008 the Department began using a POWER-based, electronic case logging system for all of our residents’ OR cases. This will greatly facilitate how our Program Directors monitor what operating experiences our residents are getting. Discrepancies in operative experiences between residents, or between different rotation sites, will be readily visible and allow programs to take action to improve our surgery teaching.

The academic year 2008-2009 saw an expanded role of surgical resident teaching for our community based hospitals - Trillium Hospital [general surgery, cardiac surgery], Toronto East General Hospital [general surgery, plastic surgery], North York General Hospital [general surgery, pediatric general surgery], Humber River Regional Hospital [general surgery], Etobicoke General Hospital [general surgery, orthopedic surgery].

The University of Toronto Surgical Skills Centre at Mount Sinai Hospital continues to offer excellent teaching of surgical skills to our residents. Dr. Helen MacRae [Director], and the skills centre manager, Lisa Satterthwaite, and her team work hard to assist the acquisition of surgical skills by our trainees in an environment outside of the OR. All PGY 1s and 2s take the Principles of Surgery Core Surgery Lecture Series which is managed by Dr. Robert Mustard. The high success rate of our students at the Principles of Surgery Exam is a testament to the hard work of all who participate in the preparation of the Core Surgery Lectures for PGY 1s and 2s, and the POS practice exam. All PGY 1s also take the Advanced Trauma Life Support course.

A series of education days such as Orientation for PGY 1s [run by Dr. Ron Levine], Surgeon in Society [run by Dr. Ron Levine], and Surgeon as Teachers for PGY 1s and 3s [run by Drs. Nicki Woods and John Murnaghan], are given to our residents to better prepare them for their careers in surgery. Beginning in 2009 Ron Levine does an exit survey with every graduating resident.

The new PAIRO agreement went into effect July 1, 2009. The Department of Surgery believes the effects of the new
“home by 2 hours post call” provision will significantly affect the ability of our residents to achieve competence in highly technical surgery and complex surgical problem management. Accordingly, the Department has asked for a department-wide exemption from this ill-conceived restriction on surgical resident education. In the fall of 2009, meetings between our Department, PAIRO and CAHO will take place to further discuss the impact of this educational restriction and how the Department of Surgery will manage the education of our residents.

The Surgeon Scientist Program continues to deliver world class educations in basic science research, clinical epidemiology, and education research. These SSP residents earn higher level degree MSc or PhDs. The achievements of our surgeon scientist residents are celebrated at our annual Gallie Day.

The Surgeon Scholar Program continues to be successful. In this program surgical resident students can pursue scholarly achievement in non "scientific," non traditional fields of study, such as MBA, law, or other fields.

Our Postgraduate Web Evaluation and Registration system (POWER) is proving to be effective in its mandate to insure that all postgraduate student evaluation and teacher evaluations are done in a timely and effective fashion. It has improved our ability to track performance achievements of students and teachers by allowing the systematic review of Intraining Evaluation Reports (ITERs) of students, and the Teaching Effectiveness Scores (TES)s of our teachers. It is only with a better understanding of our strengths and weaknesses that we can improve our teaching. Dr. Nicki Woods, the department’s Director of Education Evaluation, assists us in achieving our educational mission.

The Department of Surgery has approximately 150 clinical fellows and some 30-40 research fellows at any one time. Three quarters of our clinical fellows are international in origin. The University of Toronto, Department of Surgery, clinical fellowship is highly valued. How well these surgeons are trained, and perform in their subsequent surgical positions, directly reflects on our Department. On November 4, 2008, the Department hosted the Clinical Fellow’s Education Day. The event was well attended by over 40 fellows, who heard insightful talks from Drs. Allan Okrainec and Andrew Howard on subjects related to International Surgery.

In an effort to improve the social environment of our clinical fellows and their families, the Department hosts an annual BBQ in August specifically inviting spouses and children so that families can get to know each other. The event has grown each year and the feedback from fellows and their spouses has been very positive.

The Centre for Faculty Development is a resource that members of our faculty continue to use. Department members enroll in the various workshops, Stepping Stones Program, or the Education Scholars Program. In May 2009 the Centre for Faculty Development put on two outstanding workshops specifically designed for surgeons as teachers.

In other faculty development initiatives, Martin McKneally organized an excellent workshop meeting on leadership.

The Leadership Day was held at the Vaughan Estates on April 24, 2009. Approximately 20 surgeon leaders from our Department availed themselves of this opportunity. The notable speakers from the faculties of The Rotman School of Management and Harvard University included Jim Fisher, Brendan Calder, Miles Shore and Joe D’Cruz.

Continuing Medical Education continues to play a major role in our Department’s activities. For the academic year 2008-2009 our Department hosted over 20 major CME events. Many of the CME programs are the major CME event for their specialties in Canada. As well, they attract surgeons from around the world. The Department will be initiating a search for a new CME Director in the fall of 2009 who we hope will bring novel scholarship initiatives to our CME activities.

The Department had many notable education award winners for the academic year 2008-2009. With the risk of missing significant achievements, I congratulate and list these winners:

- Calvin Law: 2009 Bruce Tovee Award for Postgraduate Teaching, Department of Surgery
- Yaron Shargall: 2009 Bruce Tovee Award for Undergraduate Teaching, Department of Surgery
- Melise Keays: 2009 D.R. Wilson Award for Resident Teaching of Medical Students, Department of Surgery
- Marcelo Cypel: 2009 Zane Cohen Clinical Fellowship Achievement Award, Department of Surgery
- Glenn Regehr, The Medical Council of Canada’s Award for Outstanding Achievement in the Evaluation of Clinical Competence.
- Michael Cusimano: The John Provan Award for Excellence in Surgical Education
- Rod Davey: Postgraduate Individual Teaching Excellence Award, Wightman-Berris Academy
- Michael Fehlings: Allied Health Individual Teaching Excellence Award, Wightman-Berris Academy
- Ronald Kodama: Clinical Teaching Supervision Award, Peters-Boyd Academy
- Thomas Lindsay: Undergraduate Individual Teaching Excellence Award, Wightman-Berris Academy
- Sidney Radomski: Postgraduate Individual Teaching Excellence Award, Wightman-Berris Academy
- Julian Spears: Donald J. Currie Undergraduate Teaching Award, St. Michael’s Hospital
- Daniel Whelan: William Horsey Postgraduate Teaching Award, St. Michael’s Hospital
- Lee Errett: Jameel Ali Continuing Education Award, St. Michael’s Hospital
- Yaron Shargall: Best Clinical Teaching Awards, Surgery, St. Joseph’s Hospital
- Lloyd Smith: 2008 Ernie Spratt Teaching Award, Division of General Surgery, St. Joseph’s Hospital
- Robert Cartotto: 2009 Arnis Freiberg Faculty Teaching Excellence Award, Division of Plastic Surgery
• Shaf Keshavjee: 2007-2008 Colin Woolf Award for Excellence in Long Term Contributions to Continuing Medical Education

• Lee Errett: 2009 Award for Excellence in Postgraduate Medical Education in the category of Development and Innovation.

• Michael Wiley: 2009 recipient of Harry Whittaker Memorial Award Excellence in Teaching

• Chris Wallace: 2009 Award for Excellence in Postgraduate Medical Education in the category of Teaching Performance/Mentorship/Advocacy

• John Bohnen Fitzgerald Academy Hall of Fame Award

• Chris Compeau Surgery, Family Medicine Resident Teaching Awards, St. Joseph’s Hospital

The Banting Postgraduate office has hired Corina Salajan as a Surgical Education Assistant, to assist the Department members in their educational duties. Tess Weber, the Postgraduate Coordinator and Robert Gardin continue to deftly manage all the issues of our postgraduate office. Carmela Calorendi looks after the undergraduates.
Undergraduate Education

David Backstein
Director

The past academic year in Surgical Undergraduate Education was one of significant curricular consolidation as well as modification, in anticipation of the enlarging medical school class size.

The 2008 LMCC examination results verified the strength of our undergraduate program as the University of Toronto moved into the top quartile across the country. The Department of Surgery continues to be an academic leader at the Faculty of Medicine as the results of the surgical component of the LMCC exceeded those of the remainder of the examination as a whole.

This was the first full year of the newly configured Department of Surgery Undergraduate Education Committee. I would like to thank all divisional representatives for their efforts in strengthening our program.

This year saw our rotation-specific educational objectives come online as part of the “My Practice Portfolio” software. Five core objectives have been developed by each of the Division’s committees. Students must now verify electronically that they have achieved all of these objectives on each rotation. This program will help confirm that the educational experience achieved by all students at all site is comprehensive and at the same bring our program in compliance with the LCME ED-2 objectives.

Dr. John Murnaghan successfully ran the annual Residents as Teachers Day in both summer and winter sessions once again this year. These two days are focused on optimizing undergraduate teaching by our junior and intermediate level surgical trainees.

Dr. George Christakis was appointed clerkship coordinator at Sunnybrook Hospital. We look forward to working with Dr. Christakis and thank Dr. Robin Richards for his many years of contribution in this role.

As usual, our Surgical Education administrative staff was pivotal in running another successful academic year. Our thanks go to Michelle Domey [SMH], Liz Doherty [UHN], Ranita Yap [Sunnybrook] and Carmela Caloreindi [Banting] for their tireless efforts.

Congratulations were extended at Gallie Day this year to Dr. Yaron Shargal [Division of Thoracic Surgery] as he was awarded the E. Bruce Tovee Award for excellence in undergraduate teaching.

There are several major changes on the horizon for surgical undergraduate education. Clerkship curricular renewal is set to commence in 2011. This will mean an eight week surgical rotation *prior to the elective period* for all students. There is a “selective” period planned for the CaRMS which will be used for novel and longitudinal methods of surgical teaching. This will be both a significant opportunity and challenge for our department. We plan to take advantage of these changes to strengthen the program and further improve the quality of education we provide. Stay tuned.
The past academic year began with the Division hosting the 25th Annual Meeting of the American Association of Clinical Anatomists from July 15th to 18th. In large part due to Anne Agur’s organizational skills and relentless effort, the meeting was a wonderful scientific and social success. Several hundred anatomists from around the world attended and the Division was well represented by its faculty and graduate students through many platform and poster presentations. In conjunction with the annual meeting, the Association sponsors a ‘Short Course.’ Together with Nancy McKee from the Division of Plastic Surgery and Pat McKee from the Department of Occupational Therapy, Anne organized a very successful session on Clinical Anatomy of the Hand: Selected Surgical Procedures and Orthotic Intervention.

After 24 consecutive years as the Director for one of the most well-received courses in the pre-clerkship part of the undergraduate medical program, this was Ian Taylor's last year as the Course Director of Structure and Function. Testimony to Ian's success in developing and delivering this course are the numerous teaching awards he has garnered over the years, including the Aikens Award, the E. Mary Hollington Award, and the Harry Whittaker Memorial Teaching Award.

New faculty appointments in the Division this year were Drs. Reena Talwar and Judi Laprade. Dr. Talwar is an oral surgeon, cross-appointed from the Faculty of Dentistry. She is the Director of the anatomy course for dental students. Dr. Laprade has contributed to teaching anatomy and neuroanatomy on a part-time basis for several years, but has now accepted a full time appointment in the Lecturer stream. The Division also has a search currently underway to fill a tenure stream appointment at the level of Assistant Professor.

**PROMOTIONS, HONOURS, AND AWARDS**

Cindi Morshead was awarded tenure and promoted to Associate Professor. Cindi was also the George Armstrong Peters award winner and Lecturer for the November University Rounds, speaking on her research into the potential role of adult neural stem cells in the repair of CNS injuries. Anne Agur was elected President of American Association of Clinical Anatomists. Anne will serve as President-elect from 2009 to 2011 and President from 2011 to 2013. Ian Taylor received the E. Mary Hollington Award for teaching with distinction in the preclerkship. This is the twelfth time Ian has won this award. Mike Wiley was chosen by the first year medical class to receive the Harry Whittaker Memorial Teaching Award and Anne Agur was recognized by the Department of Physical Therapy with the Award for Excellence in Teaching and Mentoring Physical Therapy students.
PROMOTIONS
Dr. Lee Errett was promoted to Professor of Surgery.
Dr. Robert Cusimano was promoted to Associate Professor of Surgery.

APPOINTMENTS
Dr. Christopher Caldarone was appointed Chair of the Division of Cardiovascular Surgery after Dr. Richard Weisel ended his tenure as Chair in May 2009. Dr. Weisel will continue his valuable contributions to the division through several avenues, including the newly created position of Academic Mentor to Cardiac Surgery Residents of the University of Toronto.

VISITING PROFESSORS
Over the past academic year the division has had three visiting professors: Dr. Joseph Bavaria, Vice-Chief, Division of Cardiovascular Surgery, University of Pennsylvania Health System presented his lecture “Radical and revolutionary trans-catheter aortic valve surgery: The good, bad, and ugly” at the University Rounds on May 29, 2009. Dr. Hartzell Schaff of Mayo Clinic in Rochester Minnesota and Dr. Sam Lichtenstein of St. Paul’s Hospital in British Columbia lectured at the Terrence Donnelly Cardiac Surgery Residents Research Day on May 23, 2009. Dr. Tirone David gave the Bigelow lecture on October 3, 2008.

ACADEMIC ACHIEVEMENTS
Dr. Subodh Verma holds a Tier II Canada Research Chair in Atherosclerosis at the University of Toronto.
Dr. Verma was also awarded in the CIHR Proof of Principle (Phase I) program.
Dr. Tirone David received the William Glenn Award from the American Heart Association.
Dr. Lee Errett received the Jameel Ali Award in Continuing Education in Surgery.

CARDIAC SURGICAL RESIDENCY PROGRAM
Dr. Gilbert Tang was the North American recipient of the Ted Diethrich endovascular traveling fellowship and he received the Postgraduate Medical Trainee Leadership Award from University of Toronto. Dr. Mitesh Badivala was the recipient of the Vanier Canada Graduate Scholarship for The Role of Epidermal Growth Factor-Like Domain 7 and Immunosuppressive Strategies in Attenuating Transplant Related Vascular Injury. It was ranked the 10th out of 673 applications. Dr. Khaled Algarni was accepted for Health Administration Master Program at Health Policy, Management and Evaluation (HPME). Dr. Anusha Jega received a three-year Junior Personnel Fellowship award from the Heart & Stroke Foundation of Canada (HSFC) and was appointed the Kirklin/Ashburn Fellow in the Congenital Heart Surgeons Society Datacenter at the Hospital for Sick Children.
**TRAVEL**

Dr. Christopher Caldarone traveled to Henan Province in China with a team from the Hospital for Sick Children. The team taught surgical techniques in congenital heart disease and has established a long-term relationship with university hospitals in Xingxiang and Zhengzhou.

Dr. Glen Van Arsdell traveled to Chengdu, China in February 2009 where he led a team with Children’s HeartLink at West China Hospital.

**GRANTS**

Dr. Caldarone holds two Heart & Stroke Foundation of Ontario grants and a LeDuc Foundation grant.

Dr. Coles holds two Heart & Stroke Foundation of Ontario grants and a Canadian Institutes of Health Research grant.

Dr. Feindel holds two Heart & Stroke Foundation of Ontario grants.

Dr. Van Arsdell holds three Heart & Stroke Foundation of Ontario grants.

Dr. Subodh Verma holds two Heart & Stroke Foundation of Ontario grants, three Canadian Institutes of Health Research grants, one grant from The Physicians’ Services Incorporated Foundation, and one Ministry of Research and Innovations (Ontario) grant.

Dr. Weisel holds two Heart & Stroke Foundation of Ontario grants.

Dr. Brister holds a Canadian Institutes of Health Research grant.
Division of General Surgery

Andy Smith
Bernard and Ryna Langer Chair

This past academic year was momentous for the Division of General Surgery. Many achievements and milestones were notable, but the most important highlight of the year was marking the end of Dr. Zane Cohen’s 10 years of exceptional leadership. Recruitment and academic development of faculty continued at a robust pace within the Division.

NEW FACULTY

Expansion of the Division was due to recruitment in many of our hospitals. Increasingly such recruits are the result of a formal search process. The Division continues to embrace appointment of qualified individuals in community based hospitals to help achieve our academic mission of teaching a growing and increasing range of learners. The list of new faculty this year includes:

Fulltime or Part-Time

The newcomers include seven Fulltime faculty staff, as follows: Dr. Tulin Cil (Assistant Professor/UHN-PMH and WCH), Dr. Ralph George (Associate Professor/SMH); Dr. Anand Ghanekar (Lecturer/UHN-TGH), Dr. Rebecca Gladdy (Assistant Professor/MSH), Dr. Bernard Lawless (Assistant Professor/SMH), Dr. Catherine O’Brien (Assistant Professor/UHN-TGH/MSH/PMH), Ranil Sonnadara (PhD/Assistant Professor/Research Scientist-MSH Surgical Skills Centre); two Part-time Assistant Professors, namely: Dr. Mary-Anne Aarts at TEGH and Dr. Sharifa Himidan to The Hospital for Sick Children and North York General Hospital.

Adjunct Faculty

The Division also welcomed two new Adjunct faculty members: Dr. Saul Mandelbaum (Lecturer/SGH) and Dr. Jason Pennington (Lecturer/TWH).

PROMOTIONS

Continuous high level academic achievement in the Division is evident in the output of papers and grants documented in this report and acknowledged through awards. The highest honour bestowed by the Department and Faculty is promotion and members of the General Surgery Division who were promoted in the past academic year were: Dr. Allan Okrainec [UHN-TWH] to Assistant Professor; Drs. Annie Fecteau [HSC], Theodore Gerstle [HSC], Frances Wright [SHSC] and Paul Wales [HSC] to Associate Professor; Drs. Peter Kim [HSC] and Carol Swallow [MSH] to Full Professors.

GENERAL SURGERY TRAINING PROGRAMS

The General Surgery residency is the largest of the 4 accredited training programs in General Surgery. The program has benefitted significantly from the energetic leadership of Najma Ahmed. Najma and the General Surgery faculty have helped guide another excellent group of residents to success at the Royal College and entry into diverse careers in surgery. The 2009 graduates from General Surgery included: Anna Bendzsak, Jonathan Cardella, Anand Govindarajan, Khumar Huseynova, Zane Jackson, Pavi Kundhal, Alex Mihailovic, Lynn Mikula, Fahima Osman, Zaid Yasser and George Zogopoulos.

The other accredited programs are General Surgical Oncology (Carol Swallow), Pediatric General Surgery (Ted Gerstle) and Colorectal Surgery (Marcus Burnstein).

At the end of the 2008-2009 year, we welcomed the new Resident class. University of Toronto was able to attract 12 of our highest ranked students from across the country. It is noteworthy that not all of the programs across Canada were as fortunate and the team, led by Dr. Ahmed, responsible for recruiting individuals to our program, deserve a great deal of credit. It is a testament to the excellence and breadth of our program and the superb individuals within it that we are able to attract such high quality students to the program. The following are new Residents in the General Surgery Program beginning July 2009: Nathalie Adabachie, Reena Baweja, Wiley Chung, Daffolyn [Rachel] Fels Elliot, Arash Kashfi, Ahmed Kayssi, Karineh Kazazian, Kenneth Leung, Aaron Lo, Grace Ma, Emily Partridge, Jossie Swett Cosentino, David Wang, Sydney Wong, Roman Zassoko and Nathan Zilbert.
REFLECTIONS ON THE PAST DECADE

It is appropriate, at this time, to reflect on the accomplishments of the Division over the last 10 years. Dr. Zane Cohen provided outstanding leadership for the Division and the list of achievements for the Division is, in large part, due to his guidance and support of our diverse and exceptional faculty. Many achievements during the last 10 years bear mention but a few notable highlights are mentioned below.

1) The establishment of the Bernard and Ryna Langer Chair in General Surgery. This happened in 2004 during Zane Cohen’s first term as Chairman and has had significant impact. This endowed Chair has been used to help the Division with recruiting and retention and has provided bridge funding for research, to fund visiting professorships, to provide support to the Program Director’s office and other vital academic activities. In addition, it has been a fitting tribute to the tremendous contributions to the Division and the Department by Dr. Bernard Langer. It is noteworthy that a significant portion of this Chair was derived from monies contributed by the Faculty in our Division of General Surgery.

2) The extraordinary growth and continued excellence of the Update Course in General Surgery. The 3-day course has grown in size as well as profile to the point where it is now the largest General Surgery meeting in Canada. The Update attracted nearly 500 registrants from across the province, country and beyond. It is an excellent way to highlight the faculty at the University and is an important educational event for a wide range of surgeons. In 2010 the Update will celebrate its 50th anniversary.

3) The Surgical Skills Centre. Drs. Cohen and Helen MacRae have led the development of the Skills Centre such that it is now one of the finest surgical skills centres in the world. In 2006, the centre was doubled in size and today more than 2,500 students pass through the centre each year.

In addition to these very tangible successes during Dr. Cohen’s term, it is also worth mentioning that there has been significant attention paid to residency issues and progress has been made in the quality of our training programs. In 2003-2004 the General Surgery Residency Program faced challenges of attrition and decreased Resident morale. Issues such as this are of constant concern, but the state of the union is much better presently. We have succeeded in establishing a much stronger sense of camaraderie and unity amongst our residents. The development of guidelines for rotations, designation of base hospitals and the introduction of social events to improve morale are components of the improvements of recent years. One of the major themes in the development of the changes in the program has been strong reliance, championed by Zane, on a “bottom-up” approach to solving problems. Residents have played a key role in the change process.

Finally, an improved sense of unity exists across our large Division and its many contributing hospital divisions. It is arguably greater now than it has ever been. Increasingly, there are efforts to develop and nurture programs that represent University-wide initiatives. One example is the multidisciplinary and multi-institutional obesity program spanning six University of Toronto hospitals. Organization of this effort relied on the input of many of our MIS specialists and Dr. Richard Reznick played a key role in helping organize this complex initiative. The second example is the Best Practices in General Surgery (BPiGS) initiative led by Dr. Robin McLeod. This initiative continues to be a catalyst for quality improvement across our hospitals and also provides important academic initiatives in understanding quality improvement and knowledge translation. The years to come will feature further examples of our combined efforts as a U of T faculty or “team.”
Division of Neurosurgery

James T. Rutka
Leslie Dan Professor and Chair

RESIDENT ACHIEVEMENTS

Fellows of the Royal College of Surgeons of Canada
The following neurosurgery residents completed the program and passed their Royal College Examinations in May, 2009: Dr. Charles Matouk, Dr. Ann Parr and Dr. Sarah Woodrow.

Resident Research Awards [International/National]
Several residents received externally funded fellowships and awards during the year:

David Cadotte was awarded a 2009-10 Congress of Neurological Surgeons/Synthes Spine Fellowship. He was also awarded a two-year fellowship from the Ontario Neurotrauma Foundation in Spinal Cord Injury Research.

Douglas Cook was the recipient of the 2nd Annual Literary Award.

Greg Hawryluk was awarded a 2008-2009 Resident/Fellow research grant from the Cervical Spine Research Society. He also received the First Place Award in basic science, Eastern Canada category at the Canadian Surgical Forum, Halifax, Nova Scotia on September 13, 2008; the Chisholm Memorial Fellowship and the Edward Christie Stevens Fellowship. Aside from these, he was appointed to the Brain Trauma Foundation's "Algorithm for the Management of Post-Traumatic Intracranial Hypertension" Committee.

Kathryn Howe received the Sopman Humanitarian Award.

Betty Kim received the Chisholm Memorial Fellowship, the Neveryen (Miriam) Memorial Prize, the Timposters Fellowship, and the Joseph M. West Family Memorial Prize from the University of Toronto; successfully defended her PhD in the Institute of Biomaterials and Biomedical Engineering; received the Brain Star Award from the Canadian Institutes of Health Research/Institute of Neuroscience, Mental Health and Addiction, February, 2009; awarded also the 2009 Canadian Research Award for Specialty Residents from The Royal College of Physicians and Surgeons of Canada (RCPSC)/Canadian Society for Clinical Investigation (CSCI) and the Professional Association of Interns and Residents of Ontario (PAIRO).

Ann Parr was awarded the Cahill Fellowship, a fellowship sponsored by Synthes Spine, which is awarded annually by the American Association of Neurological Surgeons/Congress of Neurological Surgeons (AANS/CNS) Section of Disorders of the Spine and Peripheral Nerves to one U.S. or Canadian trained neurosurgical resident.

Demitre Serletis received the Edward Christie Stevens Fellowship and the Joseph M. West Family Memorial Prize from the University of Toronto, and a research fellowship from the American Academy of Neurological Surgeons/Neurosurgery Research and Education Foundation.

Shobhan Vachhrajani has been appointed the 2009-2010 National Neurosurgery Resident Representative to the Canadian Neurological Sciences Federation (CNSF) and the Canadian Neurosurgical Society (CNSS).

Adrienne Weeks received a National Cancer Institute of Canada (NCIC) Terry Fox Foundation Post MD Research Fellowship Award.

Resident Research Awards [University of Toronto]
Ratan Bhardwaj won 2nd place in both the Horsey Prize and the Morley Prize.

David Cadotte received the Warren Ho Memorial Scholarship.

D.J. Cook was the first placer in the Morley Prize and received the first prize award as a Graduate Student, Toronto Western Research Institute Award.

Kathryn Howe received the Sopman Humanitarian Award.

Paul Kongkham won first prize in the Gallie-Bateman Award for best resident research paper and presentation at Gallie Day.

Adrian Laxton received the second prize Gallie-Bateman Award and also received the 3rd place award for oral competition as a Graduate Student, Toronto Western Research Institute Award.

Nir Lipsman took the first place in the Horsey Prize.

Demitre Serletis came in 2nd place in the Poster Competition as a Graduate Student, Toronto Western Research Institute Award.
Victor Yang received the AR Hudson Annual Resident Teaching Award.

**FACULTY ACHIEVEMENTS**

**Honours and Awards**

Peter Dirks was promoted to full Professor in the Division of Neurosurgery, Department of Surgery and has also been awarded a Canadian Cancer Research Society Grant.

Karen Davis has been appointed Associate Director, Institute of Medical Science effective January 1, 2009.

Michael Fehlings has been appointed Director of the University of Toronto Neurosciences Program; appointed to the Editorial Board of the American Journal of Neuroprotection and Neuroregeneration; appointed as the inaugural co-Director of the newly formed University of Toronto Spine Program; and re-appointed as Chairman of the Editorial Board of the Journal of Neurosurgery Spine. He was the celebrated researcher at the 2008 AANS Annual Meeting in Chicago. He was also awarded two-years of funding from the Ministry of Health and Long-Term care; awarded two grants from the Spinal Cord Injury Solutions Network/Rick Hansen Foundation; received an award from the Cervical Spine Research Society; received a one-year grant from the Rick Hansen Man-in-Motion Foundation; awarded a 3-year operating grant from CHIR; selected for the “Outcomes Award” from the AANS/CNS Section on Disorders of the Spine and Peripheral Nerves.

Howard Ginsberg received an Ontario Research Commercialization Program grant from the Ministry of Research and Innovation.

Ab Guha received one-year of bridge funding from CIHR.

Clement Hamani received a Young Investigator Award/grant from the National Alliance for Research on Schizophrenia and Depression (NARSAD)

Andres Lozano is the recipient of the 2008 Jonas Stalk Award; has been designated as a key opinion leader in the area of “Deep Brain Stimulation;” ranked first when compared to all the other authors using the same keyword; and received a grant from the Dystonia Medical Research Foundation.

Loch Macdonald and Douglas J. Cook received a 2-year grant from the Brain Aneurysm Research Foundation; and has been appointed to the Editorial Board of the Journal of Neurosurgery

James Rutka was awarded a grant from Brain Tumour Foundation of Canada; was the Honored Guest of the Congress of Neurological Surgeons Annual Meeting, New Orleans 2009; was chosen as November’s Researcher of the Month by the Ontario site of the Canadian Cancer Society; was appointed as Director at Large for the Canadian Cancer Society effective August 2009; received an Institute Grant with Michael Taylor and Peter Dirks from the Pediatric Brain Tumor Foundation of the United States; and was elected to the position of President-Elect, for the American Association of Neurological Surgeons.

Julian Spears is this year’s recipient of the Donald J. Currie Undergraduate Teaching Award.

Charles Tator and Michael Fehlings successfully renewed their Christopher and Dana Reeve Foundation grant for an additional year. Dr. Tator was also inducted into the Canadian Medical Hall of Fame on April 27, 2009 in Montreal.

Michael Taylor has been elected to the Advisory Board (Neuro-oncology) of the journal, Child’s Nervous System; received a $1 million research grant from the Pediatric Brain Tumor Foundation; named one of Canada’s Top 40 under 40; and has been appointed as an Associate Investigator at The Center for Applied Genomics at Sick Kids.

Chris Wallace is the recipient of a 2009 Award for Excellence in Postgraduate Medical Education in the category of Teaching Performance Mentorship/Advocacy.

**U. OF T. NEUROSURGERY LECTURESHIPS**

Professor Manfred Westphal, Hamburg, Germany. Botterell Lectureship

Dr. Jerry Silver, Case Western Reserve University, Cleveland, Ohio. Charles H. Tator-Barbara Turnbull Lectureship

Dr. Juha Hernesniemi, Helsinki, Finland. Keith Lectureship

Dr. Paul Steinbok, B.C. Children's Hospital, Vancouver, BC. Hendrick Lectureship

Dr. Ralph Dacey, Washington University in St. Louis. Annual Marshall Lecturer

Dr. Jeffrey Wang, UCLA. U of T SpineFest Visiting Professor

Dr. Eka Wahjoepramono and Dr. Julius July, Indonesia, Visiting International Speakers.
City-Wide Rounds
Dr. Jean-Pierre Farmer, McGill University, Montreal, Quebec, The Hospital for Sick Children.
Dr. Paul McCormick, Columbia University, Toronto Western Hospital.
Dr. Jeffrey Bruce, Columbia University, Sunnybrook Health Sciences Centre.
Dr. Steven Giannotta, University of Southern California, St. Michael’s Hospital.

COURSES OFFERED AT THE SURGICAL SKILLS CENTRE
Lougheed Microvascular Course. Dr. Art Day, September 30-October 3, 2008
Lougheed Microvascular Course. Dr Ian Fleetwood, Dalhousie University March 30-April 3, 2009
Surgical Epilepsy Course, May 9, 2009. Dr. Taufik Valiante Course Leader.
Spine Course, June 15-17, 2009. Dr. Eric Massicotte Course Leader.

PUBLICATIONS BY NEUROSURGERY FACULTY AND RESIDENTS: 210

VISITING PROFESSORSHIPS BY U OF T FACULTY: 129

NEW FACULTY APPOINTMENT
Leo da Costa, Sunnybrook Health Sciences Centre
Todd Mainprize, Sunnybrook Health Sciences Centre
The 2008-2009 academic year marked a time of strengthening of our division’s plans to better integrate fundamental research into the orthopaedic division, and to develop a new educational curriculum. We had a record number of new recruits the past three years, and these individuals are already working to improve our clinical, educational, and academic output. We welcomed two new recruits this academic year, Diane Nam and Jeremy Hall. Both are well known to most of the faculty as former residents in our program. Diane is an accomplished musician, having played with the Toronto Symphony Orchestra. In addition to all of these accomplishments, she has a master’s degree and is completing postdoctoral training into the role of immune modulators in bone repair. She will be working at Sunnybrook, treating trauma, with a special interest in the upper extremity and will continue her research into the fracture repair mechanisms. Jeremy has been working as a clinical associate the past few years at St. Mike’s. He is developing a research program using new image-guided approaches to trauma. Jeremy’s practice will focus on trauma, especially of pelvic fractures. We all welcome Diane and Jeremy to our faculty. Congratulations to our faculty who were successful at academic promotion this year at the university. Raja Rampersaud was promoted to Associate Professor while Martin Roscoe was promoted to Assistant Professor.

Nizar Mahomed has been appointed as Division Head in Orthopaedic Surgery at UHN, effective February 1, 2009. Nizar is well known to everyone within our division and at UHN, having been the Program Medical Director in Musculoskeletal Health and Arthritis for several years. We wish Nizar continued success in his new role as a Division Head. At the same time, our sincere thanks to Rod Davey who has served as the Orthopedic Division Head for the last twelve years. During that time, the division has grown tremendously and has become a most sought-after rotation in orthopedic training. Rod was instrumental in recruiting several young academics to the division which is now one of the finest in the UofT family. Rod will continue as the Medical Director of the TWH operating rooms and Associate Surgeon-in-Chief at the TWH site.

Sevan Hopyan and Cari Whyne, as co-Chairs of our Research Committee are working hard at organizing the first cohort of residents who will enter their integrated research and clinical year. These residents can use this time towards a graduate degree in the Surgeon-Scientist Program, thus providing a new path for an integrated graduate research training program.

The division continues to excel in publications and presentations, and faculty members had over 250 publications or presentations this academic year. Research funding remains steady, but given the current realities of CIHR funding, our divisional members are continuing to seek alternative funding sources. We had a record number of divisional awards on Gallie Day this year. Jas Chahal (supervised by Danny Whelan) received first place in the Wyeth competition for Best Non-Bench Research. Syndie Singer (supervised by Tim Daniels) received second place for The Wyeth Award. Two graduate students working in labs, headed by our divisional faculty, received McMurrich awards (for bench research undertaken by trainees not in the Surgeon-Scientist Program); Alvin Lin received first place (supervised by Ben Alman) and Louisa Ho received second place (supervised by Jay Wunder and Ben Alman). Although she is in plastic surgery, Kristen Davidge who received third place in the Gallie Bateman competition (for trainees in the Surgeon Scientist Program) has Aileen Davis and Jay Wunder as co-authors. Sevan Hopyan, our co-chair of our research committee, received the Langer Award for most promise for a starting faculty member who is a graduate of our Surgeon Scientist Program. In addition to the various awards we received, Bill Kraemer spoke at the symposium on competency based education. This was the largest attendance ever for a Gallie Day symposium, and Bill did a fabulous job speaking about designing and implementing a competency based residency program.

Our Graduation Day Visiting Professor was Robert Bell, the CEO of UHN-Toronto General Hospital. He gave a fascinating glimpse into the history of sarcoma treatment (“If Terry Fox Presented Today - 25 Years of Progress in MSK Oncology”) as his Salter lecture. Graduating residents presented their research work during the main Graduation Day activities.

The Lawson Award for Best Academic Resident, as adjudicated by a committee, went to Daniel Penello; and the Meisami Award for Most Compassionate
Resident, as selected by the faculty, went to Bill Ristevski. The R.I. Harris Award for the Best Presentation at Graduation Day went to Aaron Nauth. The James Waddell Award for the Best PGY 4 Resident was awarded to Christopher Peskun. David Stephen received the Divisional Award for Best Teacher as selected by the residents.

John Semple (WCH Toronto), Michael Goldberg (Seattle Children’s Hospital, Rang Professorship), Aileen Davis (Toronto), Bruce A. Levy (Mayo Clinic Rochester, MN), Peter Waters (Children's Hospital Boston, Salter Visiting Professorship), Shekhar Kumta (Department of Orthopaedics and Traumatology, Musculoskeletal Oncology, The Chinese University of Hong Kong), Thomas Byrd (Nashville Sports Medicine and Orthopaedic Center), some of whom were Toronto visitors, gave university-wide grand rounds.

There were a large number of awards that our faculty received this past year. There are too many to mention here, but they are listed elsewhere in this annual report. Marvin Tile received a special award by being named to the Order of Canada. We now have four divisional members who have received this honor, more than any other orthopaedic division in the country. The competency-based curriculum was approved by the The Royal College of Physicians and Surgeons of Canada as an alternate stream in the orthopaedic residency training program and the pilot project with three residents commences on July 1, 2009. Peter Ferguson was appointed an Associate Program Director and will be working to oversee this stream of our program. We are not aware of any other residency training program that has trialed an entirely competency-based curriculum. We look forward to reporting the results and anticipate supporting the assertion that it is the quality of time and not the quantity that matters in residency training.

In order to better integrate clinical care, education and research in subspecialties, we started two new programs this year. Albert Yee (Sunnybrook) has been appointed (along with Michael Fehlings, Neurosurgery – TWH) as co-Director of the U of T Spine Program. On June 19th of this year we held the inaugural Spine Professorship Day with Jeffery Wang from UCLA as an invited speaker. This program will not only integrate the 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 new Foot and Ankle Program. The program arose following an external review of foot and ankle care, education, and research, undertaken earlier this year. The new program 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 Greater Toronto Area, and encourage new research in foot and ankle.

Toronto was very well represented at the Annual COA Conference 2009 in Whistler, BC: Robin Richards gave the R.I. Harris Lecture. Ben Alman gave the J. Edouard Samson Award Lecture. Jas Chahal won the J.A. Nutter Award at this year’s CORA meeting for the Best Paper presented, Generalized Ligamentous Laxity as a Predisposing Factor for Primary Anterior Shoulder Dislocation (supervised by Danny Whelan). Emil Schemitsch was selected as the second President-elect of the Canadian Orthopaedic Association.

The University of Toronto’s Division of Orthopaedic Surgery is continuing in its long history of excellence in clinical care, teaching, and research. The division has been working towards developing the first competency-based curriculum, increasing participation in research activities by its faculty and trainees, improved integration of clinical care across the city, and in the development of novel improved educational approaches to clinical training.
The Division of Plastic Surgery has enjoyed continued growth and further development during the past academic year. We are the largest academic Division of Plastic and Reconstructive Surgery in North America and have become the first choice for the world’s leading plastic surgery researchers, educators, clinicians and students. Our faculty, alumni and trainees continue to make significant contributions to and lead in the areas of plastic surgery research, education and clinical practice.

RECRUITMENT

Derek Ford was appointed to the Department as Lecturer. Dr. Ford’s clinical interests include general plastic and reconstructive surgery and aesthetic surgery. Dr. Ford has a strong interest in teaching and will make significant contributions to our aesthetic training program.

Toni Zhong was recruited to Toronto General Hospital as a Surgeon-Investigator. Her clinical interests include complex reconstruction post-oncologic ablation and the treatment of difficult cutaneous malignancies. Dr. Zhong is currently pursuing her Masters of Science in Clinical Epidemiology at the Harvard School of Public Health.

PROMOTIONS TO FULL PROFESSOR

Ronald Levine

James Mahoney

FACULTY AND RESIDENT GRANTS

Dimitri Anastakis: The Physicians’ Services Incorporated Foundation

Oleh Antonyshyn, Jeffrey Fialkov: 3M Pharmaceuticals

Oleh Antonyshyn: Outcomes Grant Funding; Educational Foundation of the Canadian Society of Plastic Surgeons

Paul Binhammer: Canadian Society of Plastic Surgery

Mitchell Brown, Toni Zhong: ASPS/PSEF National Endowment Fund

Linda Dvali and Brent Graham: Physicians’ Services Incorporated

Jeffrey Fialkov: Stryker Corporation

Joel Fish: Electrical Injury Research Foundation (3x)

Christopher Forrest and Tatiana Cypel: Komedyplast/PSEF

Stefan Hofer: Nuts Ohra Foundation; Vanderes Foundation; Dutch Cancer Foundation

James Mahoney: AO Foundation; AO Research Fund; Programs for Assessment of Technology in Health (PATH) Research Institute

Christine Novak, Dimitri Anastakis: American Association for Hand Surgery

Ryan Neinstein, James Mahoney, Melinda Musgrave: Physicians’ Services Incorporated Foundation; Canadian Society of Plastic Surgeons

Cho Pang: Canadian Institutes of Health Research

Cho Pang, Christopher Forrest: Canadian Institutes of Health Research

Cho Pang, Christopher Forrest, Peter Neligan: Canadian Institutes of Health Research

Cho Pang, Christopher Forrest, Stefan Hofer, Toni Zhong: Canadian Institutes of Health Research

Cho Pang, Peter Durie, Tanja Gonska, Christine Bear: HSC Research Institute Seed Grant

John Semple: Ontario Research Development Challenge Fund (ORDCF); Canadian Breast Cancer Foundation

Herb von Schroeder: Workers Safety and Insurance Board

Toni Zhong, Stefan Hofer, Mitchell Brown, John Semple, Brett Beber: Plastic Surgery Educational Foundation

Ronald Zuker: Donner Foundation; Cooper Foundation

Ronald Zuker, Ralph Manktelow: Josie Walther Fund
**FACULTY HONOURS/AWARDS/ APPOINTED POSITIONS**

**Dimitri Anastakis:** Appointed Secretary, Association for Surgical Education; appointed Clinical Lead, WTIS for Plastic and Reconstructive Surgery, MHLTC

**Paul Binhammer:** Distinguished Education Award for Outstanding Contributions to Surgical Skills Education, Surgical Skills Centre, MSH

**Robert Cartotto:** Arnis Freiberg Faculty Teaching Excellence Award 2009

**Howard Clarke:** President-elect, American Society for Peripheral Nerve

**Joel Fish:** Appointed Chief Medical Officer, St. John’s Rehabilitation Hospital

**David Fisher:** Best Chapter [Bilateral Cleft Lip] in Plastic Surgery: Indications and Practice. 2008

**Derek Ford:** Appointed Director, Residents Aesthetic Training Program; appointed Coordinator of the Aesthetic Plastic Surgery Fellowship

**Christopher Forrest:** ASMS Traveling Scholar

**Arnis Freiberg:** Canadian Society of Plastic Surgeons Time Achievement Award

**Ronald Levine:** Appointed Director of Postgraduate Surgical Education, Department of Surgery

**James Mahoney:** William K. Lindsay Faculty Research Mentor Award 2009

**Melinda Musgrave:** Appointed Undergraduate Plastic Surgery Education Coordinator

**John Semple:** Best Poster Award at the Canadian Breast Cancer Research Alliance Meeting; Zeiss Award for Best ‘Podium Presentation’ at the Canadian Society of Plastic Surgery

**John Semple, GW Moore:** Publication in New England Journal of Medicine 'Ozone Exposure and Mortality.

**RESIDENTS HONOURS/AWARDS/ POSITIONS HELD**

**Karen Cross:** John Edward DeToro Award, Division of Plastic Surgery

**Kristen Davidge:** 3rd Prize for the Gallie-Bateman Award Poster Presentations and Best Basic Science Award, Division of Plastic Surgery

**Siba Haykal:** Mentor Medical Systems Canada Graduate Scholarship in Plastic Surgery

**Mary-Helen Mahoney:** Best Clinical Paper Award, Division of Plastic Surgery

**Karen Wong:** Best Clinical Paper [Woodhouse Award], CSPS

**VISITING PROFESSORS**

**2009 Hoyle Campbell Visiting Professor**

This year’s Hoyle Campbell Visiting Professor was Dr. Donald LaLonde from Dalhousie University. Dr. Lalonde is well known and respected by the Canadian Plastic Surgery community for his collaborative leadership style, innovation, and drive for excellence.

Don has served many important leadership roles in Plastic Surgery. As Chair of the Plastic Surgery Specialty Committee of The Royal College of Physicians and Surgeons of Canada since 2004, he has helped reshape the education of Canadian Plastic Surgeons.

**7th Annual R.T. Manktelow Hand and Microsurgery Lectureship**

This year’s Ralph T. Manktelow Hand Surgery Day was held on October 17, 2008. This year’s visiting professor was Dr. Peter Gropper, Clinical Professor of Orthopaedic Surgery at University of British Columbia.

**6th Annual Lindsay-Thomson Symposium in Paediatric Plastic Surgery**

The 6th Annual Lindsay-Thomson Symposium in Paediatric Plastic Surgery was held on September 25, 2008. Dr. Gordon Wilkes, University of Alberta, Edmonton gave the INCO-Vale Lecture in Pediatric Craniofacial Surgery.

**CONTINUING MEDICAL EDUCATION**

The 39th Annual University of Toronto Symposium on Aesthetic Plastic Surgery held from April 17-18, 2009 took place at The Sutton Place Hotel. Visiting Professors included Dr. Grady Core of Birmingham, Alabama as the University of Toronto Visiting Professor; Dr. Mark Jewell of Eugene, Oregon as the University of Toronto Aesthetic Visiting Professor, and Dr. Renato Saltz of Salt Lake City, Utah as the W.R.N. Lindsay Visiting Professor.

The 9th Annual Toronto Breast Surgery Symposium, held on April 16, 2009, welcomed Visiting Professors Dr. Dennis C. Hammond of Grand Rapids, Michigan and Dr. Richard J. Warren of Vancouver, British Columbia.

**ROYAL COLLEGE FELLOWSHIPS**

**Daniel Martin** successfully passed his RCPSC fellowship examination.

The Division of Plastic Surgery at the University of Toronto remains a powerhouse of accomplishment in research, education and clinical service. I wish to thank our faculty for their hard work and on-going cooperation and collaboration during the past academic year.
CLINICAL ACCOMPLISHMENTS

The Division of Thoracic Surgery continues to have the largest clinical activity of any thoracic program in Canada. We continue to serve as the primary tertiary referral centre for most of Ontario and a quaternary referral centre for Canada. The Toronto Lung Transplant Program continues to be an international leader in clinical activity and outcomes, performing over a hundred lung transplants a year. The End Stage Lung Diseases Program, a multi-disciplinary endeavor with the Respiratory Division, continues to grow with integrated and innovative approaches to diseases such as emphysema, pulmonary fibrosis and pulmonary hypertension. The Foregut Program focuses on clinical and academic endeavors related to diseases of the esophagus and proximal stomach. The Thoracic Surgery team has continued to expand activity and expertise in early diagnosis, staging and treatment of early thoracic malignancies, and has continued to advance minimally invasive surgery, for the management of both benign and malignant thoracic conditions. This year marks the initiation of the Thoracic Interventional Program at UHN, under the leadership of Dr. Kazu Yasufuku. This program includes an animal operating suite for research, development and testing of new technologies, as well as a teaching center to train surgeons in these new technologies. Also part of this program is the construction of a state of the art Thoracic Interventional Suite at UHN for early diagnosis, staging and treatment of patients with lung and esophageal cancer. This includes modalities such as endobronchial ultrasound (EBUS), endoesophageal ultrasound (EUS), photodynamic therapy, brachytherapy autofluorescence and narrow band imaging as well as endoscopic surgery.

TEACHING AND RESEARCH

The University of Toronto continues to be the largest and most comprehensive training program in the country for Thoracic Surgery, providing residency training within the Royal College Program and fellowship training to numerous surgeons from all over the world, under the coordination of Dr. Gail Darling, Thoracic Surgery Residency Program Director and Dr. Andrew Pierre, Thoracic Surgery Fellowship Director. The FG Pearson Award for Best Resident/Fellow Teacher was awarded to Dr. Najib Safieddine. The RJ Ginsberg Award for Best Postgraduate Teacher was awarded to Dr. Andrew Pierre. The GE Darling Award for Excellence in Undergraduate Teaching was also awarded to Dr. Andrew Pierre. The 5th Annual Pearson Day was a tremendous success – highlighting the breadth of clinical and basic science research activity in the division. The Pearson Day Visiting Professor was Dr. Claude Dechamps, Chief of Surgery, Mayo Clinic, Rochester, Minnesota. The award for Best Basic Science Paper was awarded to Dr. Jonathan Yeung for his project entitled “Ex-vivo delivery of IL-10 for repair of donor lungs” (Supervisor, S. Keshavjee). The award for Best Clinical Research Paper was awarded to Dr. Christian Finley for his project entitled “Treatment choices and outcomes of patients with manometrically diagnosed achalasia” (Supervisor, G. Darling). This year, Dr. Keshavjee was awarded the Colin R. Woolf Award for Long Term Contributions to Continuing Education, recognizing his contributions and longstanding leadership of the Annual Toronto Thoracic Surgery Refresher Course. The Latner Thoracic Research Laboratories continue to be very successful with grant capture and publications. The principal investigator, namely: Keshavjee, Liu, Waddell, de Perrot and Hwang (Pathology) work in areas of lung injury and repair, tissue regeneration, lung transplantation and thoracic oncology. Drs. Keshavjee, Liu and Waddell each maintain highly ranked CIHR operating grants, for their respective research projects. Drs. Marc de Perrot and David Hwang (Pathology) have continued to add significant strength and activity in the group with grant capture and research productivity. Our laboratory program continues to provide an exciting and productive research training environment for graduate students and residents in the Surgical-Scientist Program (MSc, PhD) and for numerous postgraduate fellows from all over the world. Dr. Keshavjee has been awarded the Wyeth Pharmaceutical/CIHR R & D Clinical Research Chair in Transplantation for studies on “Ex-vivo Gene Repair of Injured Donor Lungs for Transplantation.”
Our Clinical Research Program also continues to be very productive. Members of our group are significantly involved in clinical trials in lung cancer, benign and malignant esophageal disease, and lung transplantation, with our division members being principal or co-principal investigators on a number of national and international multicentre trials.

**RECRUITMENT, PROMOTION AND HONOURS**

We continue to rebuild the Division with strong recruits and increased cross division academic and service initiatives between the three University hospital divisions, namely: Toronto General Hospital, St. Joseph’s Health Centre and the Toronto East General Hospital. Dr. Kazuhiro Yasufuku has been appointed to the position of Assistant Professor in the Division of Thoracic Surgery, UHN. Dr. John Dickie, recently recruited to Toronto East General Hospital, has been appointed to the position of Lecturer in the Division of Thoracic Surgery.

Dr. Maurice Blitz, recently recruited to St. Joseph’s Health Centre, has also been appointed as Lecturer in the Division of Thoracic Surgery.

**Promotion:** Dr. Gail Darling was promoted to the position of Full Professor and Dr. Marc de Perrot was promoted to the position of Associate Professor in the Division of Thoracic Surgery at UHN.

**ADDITIONAL INFORMATION**

The Visiting Professors to the Division of Thoracic Surgery for 2008-09 academic year were as follows:

**September 19, 2008**
Dr. Thomas Rice, Head, Section of General Thoracic Surgery
Department of Thoracic and Cardiovascular Surgery, Cleveland Clinic, Cleveland, Ohio

**October 10, 2008**
Dr. John Mayo, Director Advanced Cardiac Imaging, Department of Medical Imaging and Professor of Radiology & Cardiology, Vancouver General Hospital, University of British Columbia

**June 5, 2009**
Dr. Claude Deschamps, Division of General Thoracic Surgery, Mayo Clinic, Rochester, Minnesota

**LATNER THORACIC SURGERY VISITING PROFESSOR 2008-2009:**

**October 21-22, 2008**
Dr. David Wilkes
Dr. Calvin H. English, Professor of Medicine, Division of Pulmonary and Critical Care Medicine, Indiana University School of Medicine, Indianapolis, Indiana, USA

**April 1, 2009**
Dr. Bartley Griffith, Professor of Surgery, University of Maryland, School of Medicine, Baltimore, Maryland, USA

**April 14 - 16, 2009**
Dr. Daniel Weiss, Associate Professor of Medicine, Pulmonary and Critical Care, University of Vermont College of Medicine, Burlington, Vermont, USA.
Division of Urology

Sender Herschorn
Martin Barker Chair in Urological Research

ACADEMIC PROMOTION

**Dr. Sidney Radomski** was promoted to Professor.

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 Qatar, Bosnia, the United Kingdom, Brazil, Egypt, the United States and Canada.

He chaired the very successful Annual Sick Kids Pediatric Urology Symposium.

**Dr. Darius Bagli** continued his basic research in bladder diseases with projects funded by the Research Institute at Sick Kids ([Determinants of carcinogenesis in bladder augmentation in a novel animal model](https://example.com)) and CIHR ([Novel therapeutic approaches for obstructive bladder disease](https://example.com)) as well as previous projects. He also lectured in the United States and Brazil.

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 funded projects. He participated in new projects funded by the Ontario Research Fund and Canadian Foundation for Innovation ([Disruptive technologies in pediatric and fetal intervention](https://example.com)).

He organized and directed the Third Annual North American Pediatric Fellows Laparoscopy Course.

He was an invited speaker in Edmonton and Kuwait.

**Dr. Armando Lorenzo** continued his work in Clinical Epidemiology and minimally invasive pediatric surgery. He was an invited speaker in Chile and the U.S. He won the Michael A.S. Jewett Award for Excellence in Postgraduate Teaching in the Division of Urology.

**MSH**

**Dr. Ethan Grober** received a Canadian Urological Association Scholarship Award for his project entitled Intra-Operative Objective Structured Assessment of Technical Skill (OSATS): Correlation with Operative and Clinical Patient Outcomes. He is also working on a video-atlas of male reproductive and sexual medicine (funded by Eli Lilly.)

He was an invited speaker in Calgary.

**Dr. Keith Jarvi**, site chief at MSH, continued the Male Infertility Program and as Director of the Murray Koffler Urologic Wellness Centre [MKUWC]. Dr. Jarvi again organized with **Dr. Kirk Lo** the Annual Robson Research Day Resident and Fellow scientific presentation contest. He was an invited speaker in Montreal and Calgary.

He continued work on his funded projects in Infertility. A new project has been funded by the Canadian Uro-Oncology Group ([Identification of prostate cancer biomarkers in semen](https://example.com)).

**Dr. Kirk Lo** continued his basic research in infertility with a project entitled "Semen proteomics – discovery of prostate cancer biomarkers" funded by a private donor. He was Program Chair of the section on Circumcision and HIV/HPV infection at the American Society of Andrology Meeting in Philadelphia.

He won the A.W. Bruce award for Postgraduate Teaching in the Division of Urology.

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

He was invited speaker and/or Visiting Professor to Turkey, Switzerland, Portugal, Sweden, Brazil, Russia, Spain, Israel, places in Canada and the U.S.

He was funded by the Ontario Institute for Cancer Research for a project entitled "A proteomic and genetic biomarker panel for improving PSA performance," by CIHR for ([Clinical significance of calcium ion transport in prostate cancer](https://example.com)). He continued work on other projects.
Dr. Lesley Carr continued her work as an investigator in an industry grant for the use of muscle stem cells in stress urinary incontinence. Dr. Carr was in charge of Journal Seminars for Urology residents.

Dr. Sender Herschorn continued as the Martin Barkin Chair in Urology.

He continued his clinical research in urinary incontinence, neurogenic bladder overactivity, and erectile dysfunction. He was an invited speaker and a lecturer in North America, France, Sweden, Korea, Taiwan and Turkey. He also directed the 16th annual U of T Urology Update. He chaired the 4th International Consultation on Urinary Incontinence Section on Male Surgery for Incontinence in Paris.

He became President-elect of the Canadian Urological Association.

Dr. Laurence Klotz, site chief at Sunnybrook, continued his research in uro-oncology. He carries on as Chair of the CURC and the World Uro Oncology Federation [WUOF].

His many peer-reviewed research projects continues as well as his initiated new work in prostate cancer which receives funding from NCIC, Ontario Cancer Research Network, CURC, CPCRF, CIHR. He was a guest speaker and a visiting professor in North America, Switzerland, Japan, Mexico, Israel and Chile.

He served a one-year term as President of the Canadian Urological Association.

Dr. Ron Kodama organized the 6th Annual Resident Basic Science Course in February. He also directed the annual Urology Fair 2009. He won a Special Recognition Postgraduate Teaching Award for excellence in residency teaching. He was a Visiting Professor at the Eastern Virginia Division of Urology in Norfolk, Virginia.

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 a visiting professor and/or speaker in Florida and at UWO in London, Ontario.

He received the George Armstrong Peters Research Award from the Department of Surgery and the Faculty Postgraduate Teaching Award-Surgical from the Division of Urology.

Dr. Vasundara Venkateswaran continued her basic research in prostate cancer projects funded by CIHR, CPCRF, and NCIC. She was an invited speaker to the 4th PacRim Breast and Prostate Cancer Meeting in Whistler, British Columbia.

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 DOD (CDMRP), Ontario Cancer Research Network, CIHR, OICR, CPCRF, CUA/CUOG, Department of Defense, and NIH.

He was invited speaker at meetings in the United States and abroad. He was on the Scientific Committee of the 2nd World Congress on Controversies in Urology in Lisbon, Portugal.

He became the first 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, including one under the CUA/CUOG Bayer Kidney Cancer Fellowship award for renal cell carcinoma. His other projects are funded by CIHR, ORCP ‘BioDiscover’ Stage I Business and Development, and the Ontario Institute for Cancer Research.

He remains the Wyeth/CIHR Clinical Research Chair in Oncology.

He was an invited speaker and/or Visiting Professor in Canada, the United States, Brazil, The Netherlands and Germany. He won the Best of Posters Award and the Best Paper Award at the EAU Meeting in Stockholm. He became Chair, Canadian Kidney Cancer Forum and Chair of the Steering Committee of the Kidney Cancer Research Network of Canada. He was awarded Honorary Membership in the American Urological Association for lifetime contributions in nerve-sparing lymphadenectomy for testis cancer and management of small renal cell carcinomas.

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 PMH, NCIC, NIH, CPRF, Health Technology Exchange, NCIC/SWOG, and industry. He was an invited speaker and a Visiting Professor in North America and elsewhere.

He co-chaired the 16th Annual Issues and Controversies in Prostate Care in Cancun, Mexico.

Dr. Tony Finelli continued his funded research projects in renal cancer and in men with negative biopsies for prostate cancer. He was an invited speaker in Canada, U.S., Colombia and Portugal.

Dr. Andrew Matthew, clinical psychologist, passed his 3-year review and continued his work in outcomes after prostate cancer therapy. His projects are funded by the PMH Foundation and CIHR.
Dr. Magdy Hassouna continued his basic and clinical work in neurourology and neuromodulation. He received funding from the Ontario Neurotrauma Foundation and industry.

He won the A.W. Bruce Faculty Undergraduate Teaching award in Urology.

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 peer-review and industry funded grants in incontinence, overactive bladder and erectile dysfunction.

He continued as the assessor of educational performance for the Department of Surgery.

He was appointed Full Professor.

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. He was course director of a hands-on course at the American Urological Association (AUA) meeting in Chicago, Illinois. He was guest speaker in Shanghai, China.

Dr. Kenneth Pace continued his work in clinical epidemiology, stone disease, and minimally invasive surgery. He continued as the Fellowship Coordinator for the Division of Urology. He was guest speaker at meetings in the U.S. and Shanghai, China.

He won the Urology Residents Clinical Teaching Award.

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

ACADEMIC EVENTS & AWARDS

The Annual Charles J. Robson Research Day was held on April 2nd. The Visiting Professor was Dr. Yves Fradet, Professor of Urology at Laval University in Quebec City.

There were over 25 presentations. Resident Clinical winner was Paul Toren; Resident Basic/Translational was won by Robert Hamilton; Honourable Mention went to Natalie Venier; Fellow Clinical winner was Nathan Lawrentchuk; Fellow Basic/Translational winners were Robert Abouassaly and Bas van Rijn.

The Patrick Harty Award for Excellence in Patient Care was awarded to Dr. Robert Hamilton.

The PGY-5s, namely Drs. Ryan Groll, Jason Lee, Rohan Shahani and Bryce Weber, passed their Royal College Examinations.
INTRODUCTION

The division has had an active academic year in all areas. Dr. Leonard Tse was recruited to UHN in October, 2008 and is pursuing a Masters degree at the Institute of Biomaterials and Biomedical Engineering with Dean Cristina Amon as his supervisor. Dr. Giuseppe Papia, a graduate of our program in 2008, returned from a fellowship at the Cleveland Clinic to join the Division of Cardiac and Vascular Surgery and the Critical Care Medicine program at Sunnybrook Health Science Center as an Assistant Professor in April 2009. Three members of the Division were promoted this year, Dr. Wooster to Professor and Drs. Campbell and Tanner to Assistant Professor.

ADMINISTRATION

Dr. Johnston continues as R. Fraser Elliott Chair in Vascular Surgery and is the co-editor of the 7th edition of Rutherford’s Vascular Surgery. He is the Chair of the Society of Vascular Surgery (SVS) Document Oversight Committee and a member of the SVS executive committee. Dr. Daryl Kucey completed his term as the President of the Canadian Society for Vascular Surgery at the October 2008 meeting in Saskatoon. Dr. Lindsay completed his term as a member of the Vascular Surgery Examination Board at The Royal College of Physicians and Surgeons. He was appointed to the SVS Document Oversight Committee. Dr. Rubin continues as the Chairman and CEO of the MSH /UHN Academic Medical Organization and the UHN/MSH Health Practitioners Funding Group. In addition, Dr. Rubin continues to represent all AHSC AFP Governance Chairs in Ontario on the Academic Medicine Steering Committee. Dr. Tanner continues as the Head of the Section of Vascular Surgery at the OMA and was elected to the OMA Board of Directors to head and represent the Surgical Assembly of the OMA. Dr. Andrew Dueck has been appointed to the executive of the Schulich Heart Center, the Hybrid Operating Room Committee and has begun a successful interventional peripheral occlusive disease program at Sunnybrook. He and Dr. Maggisano have been instrumental in Sunnybrook’s achieving Ministry of Health funding for the EVAR program. Dr. Dueck is the Vascular Surgery representative on the tariff committee at the Ontario Medical Association. Dr. Rubin continues his Society for Vascular Surgery commitment as a member of the Research and Education Committee and Chair of the Audit Committee. Dr. Lindsay remains a member of the Editorial Board of the Annals of Vascular Surgery and a key reviewer for the Journal of Vascular Surgery. Dr. Maggisano has been awarded the Marvin Tile award for sustained and long term contribution to the Department Surgery and Sunnybrook Hospital. Dr. Maggisano has been instrumental in achieving funding for the EVAR program at Sunnybrook initially though private donations and now from the Ontario Ministry of Health.

EDUCATION

Dr. Oreopoulos has successfully completed his first year of the Educational Scholars program and continues as the coordinator of the Vascular Surgical resident seminar series.

RESEARCH

Dr. Rubin holds three independent basic science operating grants from CIHR. In addition, he was named Chair of the Grant Review Panel for the Foundation for Accelerated Vascular Research, San Francisco. Dr. Lindsay’s PSI grant to study complement activation in ruptured abdominal aortic aneurysm in both humans and animals continues. Dr. Cinà was awarded the Cook Award from the CSVS in September 2008. Dr. Tse was awarded a University of Toronto Fellowship, Institute of Biomedical Engineering, the Barbara and Frank Milligan Graduate Fellowship and an NSERC CGS-M Award to continue his graduate studies. Dr. Wooster is the recipient of a two Royal College of Physicians and Surgeons of Canada awards one for CanMEDs and one for faculty development.

AWARDS

Dr. Johnston was awarded the Lifetime Achievement Award of the Society for Vascular Surgery at the June 2009 meeting in Denver. The Lifetime Achievement Award is the highest honor that the Society for Vascular Surgery bestows on one of its members. Selection for this honor recognizes an individual’s outstanding and sustained contributions both to the profession and to the Society for Vascular Surgery.
Dr. Johnston is the 10th recipient and the first Canadian over the past 21 years. Previous awardees include, Michael E. DeBakey. Dr. Cinà was inducted Knight Grand Cross of the The Nights Hospitallers of the Sovereign Order of Saint John of Jerusalem (Knights of Malta). The Ecumenical Order. Dr. Heather Cox, a first year vascular trainee, won second place in the CONCOURS PAUL-CARTIER resident competition at the May 2009 meeting of The Entretiens Vasculaires XXVII meeting in Montreal, Quebec for a paper titled Approaches to Inadvertent Branch Coverage During EVAR: Case Report and Review.

EXTERNAL VISITS AND VISITORS

Dr. Ameli was an invited guest at the 9th Annual Conference on Vascular Surgery of China in Tainan, Shandong Province of the People’s Republic of China in September 2008. He was a Visiting Professor at the Qianfoshan Hospital, part of the Clinical School of Shandong University. Dr. Lindsay was an invited speaker at the XVIII Waterford Surgical Meeting and the Manitoba Chapter of the American College of Surgeons meeting.

Drs. Johnston, Lindsay and Wooster presented at the Winnipeg Vascular Surgery course in April 2009. Dr. Wooster was an invited guest at the University of Rochester Vascular Course in May 2009 and was a visiting professor at University of Southern California in April. Dr. Cinà was an endovascular surgery preceptor in Palermo, Messina and during the PIVETAL Course at the University of Catania in Italy in May 2009. Dr. Johnston was a guest lecturer at the Cleveland Clinic in June 2009.
Dr. Martin Barkin (6T0) assumed the role of President of the Steering Committee of the Surgical Alumni Association in 2008, succeeding Dr. Charles Tator. New steering committee members were appointed from across the Department and four major activities were undertaken to serve the aims of the association: to help build the Department of Surgery’s capacity for excellence in research, education and clinical practice through advancement activities. The association is a means to help build and maintain relationships with alumni in order to maintain and strengthen their relationship with the University. It also serves a fundraising role, raising funds for the Surgeon Scientist Program as an example.

Activity one entailed updating and strengthening the Department’s database of those who can be considered alumni of the program which includes trainees, past residents, fellows as well as faculty. This meant collaboration with the Faculty of Medicine to plan improved data integration with the University.

Activity two was an exercise in establishing a strong case for inclusion in, and support of, the association in order to build and maintain ongoing ties to the Department.

Activity three was the planning for a major event to coincide with Gallie Day in May 2010 to celebrate the great accomplishments of the Department and specifically to honour the 25th anniversary of the Surgeon Scientist Program at the University of Toronto. Coinciding with this goal of re-engaging alumni for this upcoming celebration is the opportunity to establish increased endowment funding for our Surgeon Scientist Program to help ensure its long term success.

Activity four was to step up the role of the association in financially supporting the Department’s activities. This is particularly relevant as we continue to have access to graduate student endowment matching funds (GSEF) which serve to virtually triple donations to the Surgeon Scientist Program. Activities included a mail solicitation and an education evening in soliciting philanthropy specifically geared to surgeons and given by Mr. George Fierheller. Alumni across all of the surgical Divisions play a crucial role in continuing to help us build on our proud tradition of excellence in the Department. All are invited and encouraged to return in May 2010 to celebrate the Department’s great history and promise for the future.
Success and productivity continue to characterize the activity of surgical oncologists at the University of Toronto. Notable achievements are evident in all aspects of the academic mandate including education, research and implementation of changes in health care.

Fellowship communities are a cornerstone of the surgical oncology community at UofT. Particularly notable this year is that Dr. Carol Swallow is coming to the end of more than a decade of leadership of the General Surgical Oncology Fellowship. During her tenure as Program Director, we have witnessed considerable changes in the Fellowship that have been paralleled by significant gains in the General Surgical Oncology community in general.

Over the last decade there has been increasingly close and collegial collaboration between the departments of surgical oncology at Sunnybrook and at Mount Sinai Hospital/UHN/PMH in training fellows. Dr. Swallow successfully led the transitioning of the surgical oncology training program from a Royal College “accreditation without certification” program to a certification specialty program. This development catalyzed similar changes in other programs across the country. In addition, the Toronto program has been recognized by, and included as one of, the Society of Surgical Oncology (USA) training programs and provides one of the highest volumes of cases for Fellows of any programs in the SSO. The program continues to attract and train high quality international trainees who either have or will return to their home countries to improve the quality of cancer care and act as testimonials to the caliber of the surgical oncology training they received in our program. Recent trainees from Singapore, Ireland, Jamaica and Switzerland are but a few that are examples. The diversity of our fellows is wide and overall their activity has increased the quantity and quality of our research in the surgical oncology communication in general. Ultimately, Carol’s leadership of the Fellowship Program has helped establish a legacy of clinical excellence, critical thinking and progress in surgical oncology education.

In the research domain, the output of our faculty is extensive and broad in nature. Perusal of Divisional publication lists in this report reflects this and it is particularly noteworthy that an increasing amount of the work in surgical oncology is not only multidisciplinary in nature, but multi-institutional as well. It is very common to see research effort that comes not from a single academic health science centre but rather multiple units and this reflects a University of Toronto accomplishment rather than simply that of one of our component institutions. Much of the work is notable but particular attention is deserved for Dr. Robert Nam’s urologic oncologic work. Dr. Nam won The Royal College medal for his paper entitled “Expression of the TMPRSS2: ERG fusion gene predicts cancer recurrence after surgery for localized prostate cancer.” In this work, Nam and colleagues showed for the first time that a hybrid gene was an independent predictor for prostate cancer progression amongst patients who had surgery. This will have important clinical implications in how we treat patients with prostate cancer.

Our surgical oncologists continue to lead on the provincial scene and in guiding cancer care in our LHINS. Examples of UofT leadership include the implementation of Thoracic surgery standards and quality improvement, initiatives in mediastinal staging (Dr. Gail Darling) and HPB standards and their implementation that has been led by Dr. Steven Gallinger. Drs. May Lynn Quan, Dr. Ralph George and Dave McCready have played crucial roles in improving sentinel lymph node biopsy guidelines and care throughout Ontario. Dr. Neil Fleshner and colleagues have engaged and begun leading the Prostate Cancer Working Group to improve oncologic outcomes in prostate cancer surgery. Dr. Frances Wright continues to lead with research efforts around understanding tumour boards and their consistent implementation across Ontario. Dr. Robin McLeod and colleagues continue to push colorectal cancer quality improvement in innovative and effective ways.

Finally, the Hanna Family Chair in Surgical Oncology Research has reached its goal of $3 million dollars in funding and the holder of the Chair will be named in the 2009-2010 academic year.

Overall, there is much to be proud of when one reflects on the ongoing activity of our surgical oncologists at the University of Toronto.
On June 18, 2009, the Office of Continuing Education and Professional Development of the Faculty of Medicine launched a new website [http://www.cepd.utoronto.ca](http://www.cepd.utoronto.ca) that will be hosting the BeBo [Better Education for Better Outcomes] Bulletin, a monthly newsletter filled with interesting educational tips. The site also provides Course Directors access to innovative educational techniques and research to accelerate knowledge transfer.

Continuing Medical Education continues to play a major role in our Department’s activities. For the academic year 2008-2009 our Department hosted over 20 major CME events. Many of the CME programs are the major CME event for their specialties in Canada. As well, they attract surgeons from around the world. The Department will be initiating a search for a new CME Director in the fall of 2009 who we hope will bring novel scholarship initiatives to our CME activities.

In the next couple of pages is a Table of CME Events during the academic period 2008-09.
<table>
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<th>DESCRIPTION</th>
<th>START DATE</th>
<th>END DATE</th>
<th>LOCATION</th>
<th>DEPT</th>
<th>DIRECTOR</th>
<th>CREDITS</th>
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<tbody>
<tr>
<td>Pediatric Urology Laparoscopy Course</td>
<td>August 15, 2008</td>
<td>August 16, 2008</td>
<td>Surgical Skills Facility - Mount Sinai Hospital</td>
<td>Surgery</td>
<td>Walid Farhat</td>
<td>RCPSC (13.0)</td>
</tr>
<tr>
<td>The Inaugural Canadian Intraoperative Neurophysiological Monitoring Symposium</td>
<td>October 3, 2008</td>
<td>October 4, 2008</td>
<td>Delta Chelsea Hotel</td>
<td>Surgery</td>
<td>David Houlden</td>
<td>RCPSC (9.0)</td>
</tr>
<tr>
<td>Craniofacial Symposium</td>
<td>October 9, 2008</td>
<td>October 11, 2008</td>
<td>Intercontinental Toronto Yorkville</td>
<td>Surgery</td>
<td>Oleh M. Antonyshyn, Christopher R. Forrest</td>
<td>RCPSC (22.0)</td>
</tr>
<tr>
<td>Colorectal Guidelines Listserv</td>
<td>October 14, 2008</td>
<td>February 20, 2009</td>
<td>Web-Based</td>
<td>Surgery</td>
<td>Robin McLeod</td>
<td>RCPSC (11.5)</td>
</tr>
<tr>
<td>Advanced Reconstructive Urologic Laparoscopy Course</td>
<td>October 24, 2008</td>
<td>October 24, 2008</td>
<td>UofT Surgical Skills Centre, Mount Sinai</td>
<td>Surgery</td>
<td>Kenneth Pace</td>
<td>Cancelled</td>
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<tr>
<td>Urology Update 2008</td>
<td>October 25, 2008</td>
<td>October 26, 2008</td>
<td>Fairmont Royal York Hotel</td>
<td>Surgery</td>
<td>Sender Herschom</td>
<td>RCPSC (14.0)</td>
</tr>
<tr>
<td>Update in Surgical Oncology 2007</td>
<td>October 31, 2008</td>
<td>October 31, 2008</td>
<td>Metro Toronto Convention Centre, North Building</td>
<td>Surgery</td>
<td>Andrew J. Smith</td>
<td>RCPSC (6.0)</td>
</tr>
<tr>
<td>EBUS - Endobronchial Ultrasound Training Course</td>
<td>November 7, 2008</td>
<td>November 7, 2008</td>
<td>Toronto Medical Discovery Tower, MaRS</td>
<td>Surgery</td>
<td>Shaf Keshavjee</td>
<td>RCPSC (7.0)</td>
</tr>
<tr>
<td>Heart Care St. Michael's and Toronto General CV Surgery Day</td>
<td>January 31, 2009</td>
<td>January 31, 2009</td>
<td>La Gala Banquet Centre</td>
<td>Surgery</td>
<td>Vivek Rao</td>
<td>RCPSC (3.5)</td>
</tr>
<tr>
<td>Cancer Care Ontario's Surgical Oncology Program Prostate Cancer List Serve</td>
<td>March 23, 2009</td>
<td>June 19, 2009</td>
<td>Web-Based</td>
<td>Surgery</td>
<td>Robin McLeod</td>
<td>RCPSC (11.0)</td>
</tr>
<tr>
<td>Vascular Education Day</td>
<td>March 27, 2009</td>
<td>March 27, 2009</td>
<td>University of Toronto - 89 Chestnut</td>
<td>Surgery</td>
<td>Douglas Wooster</td>
<td>AMA (7.5)</td>
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<tr>
<td>Division of Orthopaedic Surgery UofT Graduation Day</td>
<td>April 1, 2009</td>
<td>April 1, 2009</td>
<td>The Great Ballroom, UofT Conference Centre</td>
<td>Surgery</td>
<td>William Kraemer</td>
<td>RCPSC (5.0)</td>
</tr>
<tr>
<td>25th Annual Upper Extremity Update 2009</td>
<td>April 3, 2009</td>
<td>April 3, 2009</td>
<td>University of Toronto Conference Centre</td>
<td>Surgery</td>
<td>Robin Richards</td>
<td>RCPSC (6.0) AMA (6.0)</td>
</tr>
<tr>
<td>Update in General Surgery 2009 - 50th Annual Course for Practising Surgeons</td>
<td>April 16, 2009</td>
<td>April 18, 2009</td>
<td>Westin Harbour Castle</td>
<td>Surgery</td>
<td>Zane Cohen</td>
<td>RCPSC (16.0) AMA (16.0)</td>
</tr>
<tr>
<td>9th Annual Breast Surgery Symposium</td>
<td>April 16, 2009</td>
<td>April 16, 2009</td>
<td>Sutton Place Hotel</td>
<td>Surgery</td>
<td>Mitchell Brown</td>
<td>RCPSC (7.0) AMA (7.0)</td>
</tr>
<tr>
<td>39th Annual Symposium on Aesthetic Plastic Surgery</td>
<td>April 17, 2009</td>
<td>April 18, 2009</td>
<td>Sutton Place Hotel</td>
<td>Surgery</td>
<td>Walter Peters</td>
<td>RCPSC (13.0) AMA (13.0)</td>
</tr>
<tr>
<td>Surgical Leadership Day</td>
<td>April 24, 2009</td>
<td>April 24, 2009</td>
<td>Sunnybrook Vaughan Estate</td>
<td>Surgery</td>
<td>Martin McKneally</td>
<td>RCPSC (5.0)</td>
</tr>
<tr>
<td>Department of Surgery Gallie Day</td>
<td>May 8, 2009</td>
<td>May 8, 2009</td>
<td>MaRS Auditorium</td>
<td>Surgery</td>
<td>Richard Reznick</td>
<td>RCPSC (5.5)</td>
</tr>
<tr>
<td>International Surgery Bethune Round Table</td>
<td>May 22, 2009</td>
<td>May 24, 2009</td>
<td>Bahen Centre, 40 St. George St.</td>
<td>Surgery</td>
<td>Andrew W. Howard</td>
<td>RCPSC (13.0)</td>
</tr>
<tr>
<td>EBUS Hands-On, Live Animal Course</td>
<td>June 11, 2009</td>
<td>June 11, 2009</td>
<td>Toronto Medical Discovery Tower, MaRs</td>
<td>Surgery</td>
<td>Shaf Keshavjee</td>
<td>RCPSC (7.0) AMA (7.0)</td>
</tr>
<tr>
<td>Thoracic Refresher Course</td>
<td>June 12, 2009</td>
<td>June 13, 2009</td>
<td>Sutton Place Hotel</td>
<td>Surgery</td>
<td>Shaf Keshavjee</td>
<td>RCPSC 14.5) AMA (14.5)</td>
</tr>
</tbody>
</table>
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 Orthopaedic Surgery
Dr. C. Forrest Plastic Surgery
Dr. J. Pippi Salle Urology

The Department of Surgery was reviewed in my fifth year by Drs. Richard Azizkhan, from Cincinnati Children’s Hospital, and Baxter Willis, from Children’s Hospital of Eastern Ontario. The review was highly positive and placed SickKids among the best children’s hospitals in the world.

SickKids continues to lead the Canadian Paediatric Surgical Wait Time project. Stage II of the project, funded by Health Canada, is measuring wait times for children’s surgery in all clinical areas at 16 paediatric academic health science centres and now 7 community partners. The project has also developed surgical indications for orchidopexy under sponsorship of the Canadian Urologic Society and the Canadian Association of Paediatric Surgeons. The project is also performing a capacity analysis and sharing learning on efficiency initiatives for children’s hospitals across Canada.

Targeted funding from the Ministry of Health and Long Term Care continues to make a substantial impact on wait time for surgery. While waits are still not ideal, the number of children waiting has dropped from over 3,000 to just under 2,000.

With the assistance of the SickKids Foundation we have raised over $7.5 million allowing us to open two state of the art operating rooms as well as retrofitting an existing OR to facilitate minimally invasive surgery.

NEW STAFF
No new staff came to SickKids in 2008. However, searches for Plastic Surgery, Orthopaedic Surgery and Urology are complete and new recruits will be arriving in 2009.

DEPARTURES
Dr. William Cole, former Head, Division of Orthopaedic Surgery left SickKids after a highly successful clinical, teaching, and research career to become Surgeon in Chief at Stollery Children’s Hospital in Edmonton, Alberta.
Dr. Leslie Farkas, Associate Professor, Division of Plastic Surgery passed away in October 2008 after a career in craniofacial anthropometry that spanned 40 years. Dr. Farkas joined the Division of Plastic Surgery in 1968 as a researcher and became an internationally respected figure in the field of craniofacial measurements, leaving a body of work including 244 papers and 4 textbooks.
APPOINTMENTS AND PROMOTIONS
Dr. Darius Bagli, Division of Urology, was promoted to Senior Associate Scientist in the Research Institute. Dr. Christopher Caldarone, Division of Cardiovascular Surgery, was promoted to Professor and appointed Chair of the Division of Cardiovascular Surgery, University of Toronto. Dr. Peter Dirks, Division of Neurosurgery, was promoted to Professor. Drs. Annie Fecteau, Ted Gerstle, Paul Wales Division of General and Thoracic Surgery, were promoted to Associate Professor. Dr. Sevan Hopyan, Division of Orthopaedic Surgery, was reclassified to Scientist in the Program of Developmental and Stem Cell Biology, Research Institute. Dr. Peter Kim, Division of General and Thoracic Surgery, was promoted to Professor. Dr. Abhaya Kulkarni, Division of Neurosurgery, was promoted to Associate Professor, University of Toronto and Scientist, Research Institute.

DIVISION OF CARDIAC SURGERY
Dr. Van Arsdell led a multidisciplinary team to Chengdu, China for operative, anesthesia, ICU, and nursing education. Dr. Caldarone was appointed Chair of the Division of Cardiovascular Surgery, University of Toronto. Dr. Caldarone became a member of the American Association for Thoracic Surgery and Dr. Al-Radi became a member of the Society of Thoracic Surgeons. Each of the three senior Division members continues to hold Heart and Stroke Grants; 6 funded grants in total. Dr. Coles holds a CIHR grant. Members of the Division published 24 papers.

DIVISION OF GENERAL AND THORACIC SURGERY
Dr. Jack Langer was elected Chair of the Nominating Committee of the American Pediatric Surgical Association. Dr. Langer also participated in the establishment of a newly funded complex obesity program, which will include bariatric surgery for adolescents. 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. Drs. Georges Azzie, Ted Gerstle, and Doruk Ozgediz (pediatric general surgery fellow) are all involved in significant initiatives in Africa developing training programs and surgical expertise. Drs. Ted Gerstle, Annie Fecteau, and David Grant, in collaboration with members of the Division of Oncology, hosted a highly successful international symposium on the role of transplantation in the management of children with liver tumours. Dr. Peter Kim will receive $2.2 million in support of the establishment of the Centre for Image-Guided Innovation and Therapeutic Intervention (CIGITI) (www.cigiti.com) at SickKids. Dr. Kim’s team is developing three new innovative technologies with paediatric and fetal applications: minimally-invasive endoscopic manipulators, a natural orifice anastomotic device and magnetic resonance-guided high-intensity focused ultrasound. This new award builds on the team’s ongoing and groundbreaking work at the Center for Computer-Assisted Innovation and Intervention (CCAII) at SickKids on smart medical tools, imaging and simulation development.

DIVISION OF NEUROSURGERY
Dr. Peter Dirks received the Terry Fox Young Investigator Award, National Cancer Institute of Canada. Dr. Michael Taylor was named one of Canada’s Top 40 under 40 in Neurosurgery, appointed as an Associate Investigator at The Center for Applied Genomics at SickKids and received the Bernard Langer Surgeon-Scientist Award in the Department of Surgery, University of Toronto. Members of the Division published 70 papers, presented 57 invited lectures and currently hold 25 funded and non-funded grants.
DIVISION OF ORTHOPAEDIC SURGERY

Members of the Division of Orthopaedic Surgery continue to be acknowledged for their achievements during this academic year. Dr. Ben Alman received the 2008 J. Edouard Samson Award given by the Canadian Orthopaedic Foundation. This award recognizes the best orthopaedic research over a five-year period at a Canadian Centre. Dr. Sevan Hopyan was the recipient of the 2009 Angela S.M. Kuo Young Investigator Memorial Award presented by the Pediatric Orthopaedic Society of North America to an outstanding young researcher to help promote a long-term research career.

The Division of Orthopaedic Surgery hosted three academic sessions over the past year. Dr. Peter Waters, from Boston Children’s Hospital, was the 2008 Robert B. Salter Visiting Professorship Lecturer. Dr. Michael Goldberg, from Shriners Hospital Seattle, was the 2009 Mercer Rang Visiting Professorship Lecturer. His visit was scheduled back-to-back with the Salter Society Meeting. The Division was selected as one of the premier hosts of the Scoliosis Research Society’s Traveling Fellowship; a first for a Canadian institution, due in part to their strong scoliosis program and highly regarded surgeons.

The Bone Health Centre, spearheaded by Orthopaedics, will be the source for genetic sample collection used to discover underlying hereditary and genetic markers for commonly seen orthopaedic problems. We are also actively recruiting patients for the Ontario iPS facility for further basic science research into the mechanisms of disease. Members of the Division of Orthopaedic Surgery published 46 peer-reviewed publications and 11 grants were funded during this academic year.

DIVISION OF PLASTIC SURGERY

Dr. Hugh G. Thomson [Professor Emeritus] received the Lifetime Achievement Award from the Canadian Society of Plastic Surgery. This is the highest award the society can bestow on any member. Dr. Christopher Forrest completed the Advanced Health Care Leadership Program at the Rotman School of Business. Dr. Forrest received grant funding from the Canadian Institutes of Health Research (CIHR) with Drs. Cho Pang and Stefan Hofer [UHN] and from the Physicians’ Services Incorporated (PSI). Dr. Howard Clarke was appointed President of the American Society of Peripheral Nerve and became a member of the Sunderland Society that recognizes international expertise in peripheral nerve. Dr. Ronald Zuker was appointed President of the International Plastic, Reconstructive and Aesthetic Society Planning Committee for the bi-annual meeting in Vancouver, 2011. Members of the Division published 12 papers and presented 14 invited lectures.

DIVISION OF UROLOGY

Dr. Darius Bagli successfully completed two grants, “Novel Therapeutic Strategies for Obstructive Bladder Disease” from CIHR and “Identification of Novel Therapies for Obstructive Bladder Disease” from the Kidney Foundation. Dr. Walid Farhat was awarded the A.W. Bruce Faculty Undergraduate Teaching Award 2008 from the University of Toronto. Dr. Armando Lorenzo completed his Master’s Degree in Clinical Epidemiology at the University of Toronto and received the Michael Jewett Teaching Award from the Division of Urology.

EDUCATION

The Department Surgery continues to have an active education program training 54 fellows and 83 residents originating from 30 countries worldwide.

RESEARCH:

Of 34 surgeons, 16 have funded research programs. The Department is engaged in a wide variety of clinical and basic research supervising many research fellows, 20 Masters and 17 PhD students.
Division of Cardiac Surgery

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

PUBLICATIONS


**INVITED VISITS TO OTHER HOSPITALS/UNIVERSITIES**


**Caldarone C**: American College of Cardiology, Orlando, Florida, March 2009. Presenter: Hybrid approach to stage I palliation.

**Caldarone C**: American Association of Thoracic Surgery, Boston, Massachusetts, May 2009. (1) Postgraduate course: Multi-institutional studies: Lessons learned from the CHSS studies, (2) Invited discussant: Mechanical mitral valve prostheses in children don’t deserve their ill repute.

Caldarone C: Arkansas Children’s Hospital, University of Arkansas for Medical Sciences - College of Medicine, Little Rock, Arkansas, February 2009. (1) Preconditioning, mitochondria and apoptosis, (2) Hybrid strategies in single ventricle palliation.


Van Arsdell GS: West China Hospital, Children’s Heart Link, Mission in Chengdu, February 2009.

Van Arsdell GS: Medical University of South Carolina, Charleston Symposium on Congenital Heart Disease, Charleston, South Carolina, November 2008. Repairing double outlet right ventricle.

RESEARCH AND INVESTIGATIONS  
Senior Investigator’s Name Appears in Italics

A transatlantic network to define the mechanisms, mediators and clinical applications of remote ischemic preconditioning. Redington AR, Caldarone CA: Leducq Foundation. ($6,523,095 2006 - 2011.)


Assessment of heavy metal toxins in Canadian marine mammals. Wittnich C: Oceanographic Environmental Research Society (OERS), Seed Grant. ($15,000 2005 - 2009.)


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 CA: Heart & Stroke Foundation, Junior Personnel Award for Anusha Jegatheeswaran. ($150,000 2008 - 2011.)

Gender and sex hormones in the heart. Wittnich C: Heart & Stroke Foundation of Ontario. ($270,000 2004 - 2009.)

Late functional status and health-related quality of life in a cohort of survivors with pulmonary atresia intact ventricular septum from the Congenital Heart Surgeons Society study. McCrindle, BW, Caldarone CA: The Children’s Heart Foundation. [$86,308 2007 - 2009.]

Oxygen stress in the newborn heart. Wittnich C: Heart & Stroke Foundation of Ontario. [$320,000 2002 - 2008.]

Role of integrin-linked kinase (ILK) in tetralogy of fallot. Coles JG: Canadian Institutes of Health Research. [$400,700 2008 - 2012.]

Selective generation of cardiac progenitor cells and cardiomyocytes from mouse embryonic stem cells. Van Arsdell GS, Riazi A: Heart & Stroke Foundation. [$140,000 2008 - 2010.]


The role of sex hormones in myocardial hypertrophy. Wittnich C: Heart & Stroke Foundation of Ontario. [$270,000 2004 - 2008.]

HONOURS RECEIVED


INVITED VISITS TO OTHER HOSPITALS/UNIVERSITIES


Grant D: Israel Transplant Society, Tel Aviv, Israel, January 2009. Liver donor liver transplantation.


Grant D: Canadian Transplantation Society, Banff, AB, March 2009. Liver donor liver transplantation.

Kim PCW: King Abdullah Medical City, Visiting Professors Program, Riyadh, Kingdom of Saudi Arabia, November 2008. Fetal Alert Network: Conception to transition.


Langer JC: Medical University of Graz, International Pediatric Surgery Week, Graz, Austria, March 2009. Should all children be operated on by a pediatric surgeon?


Langer JC: Canadian Medical Network, Port of Spain, Trinidad, October 2008. The use of telehealth to enhance international surgical activities.

Langer JC: Crohn’s and Colitis Foundation of Canada, Toronto, ON, November 2008. The role of the surgeon in the management of IBD: Living well with inflammatory bowel disease.

RESEARCH AND INVESTIGATIONS

Senior Investigator’s Name Appears in Italics

Centre for Computer-Assisted Intervention and Innovation (CCAII). Kim PCW: Ministry of Research and Innovation. ($10,200,000 2008 - 2012.)

Effect of nitrous oxide exposure during surgery on the homocysteine concentrations of children. O’Connor DL, Lugrinbuehl I, Wales PW, Pichardo D: Mead Johnson/Heinz/ Weston Endowment for Nutrition/Metabolism Research. ($12,043 2009 - 2010.)


Functional outcomes after pediatric liver transplantation. Ng VL, Fecteau AH: National Institutes of Health (NIH) 1 R01 HD045694-01A1. ($125,000 2005 - 2010.)


Pediatric acute liver failure (PALF) registry with accompanying N-acetylcysteine (NAC) study [A double-blinded randomized control trial of N-acetylcysteine for pediatric acute liver failure not due to acetaminophen]. Ng VL, Fecteau AH: National Institutes of Health [NIH] U01 KD 072146-01. ($54,000 2005 - 2010.)


Research hospital fund: Centre for image-guided innovation and therapeutic intervention (CIGITI). Kim P [Section Leader], Wright J, Rossant J, Babyn P, Lymer J: Canadian Foundation for Innovation. Total Awarded $227,000,000. ($12,500,000 2008 - 2012.)

Short bowel syndrome: Neonatal piglet models. Turner J, Wales PW, Pencharz PB, Ball R: The Hospital for Sick Children Foundation and the Canadian Institutes of Health Research/Institute of Human Development, Child and Youth Health [CIHR/IHDCYH], New Investigator Grants Program. ($125,379 2008 - 2010.)


The effect of intestinal continuity on circulating levels of glucagon-like peptide - 2 (GLP-2) in children. Wales PW, Drucker DJ: University of Toronto, Faculty of Medicine, Dean’s Fund. ($9,983 2004 - 2009.)

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  Assistant Professor

PUBLICATIONS


Dirks PB: University of Michigan, Cellular and Molecular Biology (CMB) Fall Short Course, Ann Arbor, Michigan, November 2008. Beyond the hype of cancer stem cells.

Dirks PB: Institute of Molecular Pathology - Institute of Molecular Biotechnology GmbH (IMP-IMBA-BI) Meeting on Stem Cells, Vienna, Austria, December 2008. The heterogeneity of brain tumor stem cells.

Dirks PB: Max Delbruck Center for Molecular Medicine, Berlin, Germany, December 2008. Tracking the cancer stem cells in human and mouse brain tumors.
Drake JM: University of British Columbia, Department of Neurosurgery, Neuroscience Day, Vancouver, British Columbia, March 2009. (A) Visiting Professor: (1) CSF diversion with shunts in pediatric hydrocephalus - Why have we failed?, (2) CSF shunt infection - La Bete Noire, (B) P.D. Moyes Lecturer: Endoscopic third ventriculostomy for pediatric hydrocephalus - The latest technology, but is it better?

Drake JM: University of Utah, School of Medicine, Department of Neurosurgery Grand Rounds, Salt Lake City, Utah, March 2009. Marion L. Walker Visiting Professor: Optimizing cerebrospinal fluid (CSF) diversion strategies in pediatric patients.

Drake JM: Harvard University, Department of Neurosurgery Grand Rounds, Boston, Massachusetts, April 2009. Visiting Professor: Optimizing CSF diversion strategies in pediatric patients.


Drake JM: Congreso Latinoamericano de Neurocirugia (CLAN), 33rd Meeting, Bogota, Colombia, October 2008. Speaker: Optimizing cerebrospinal fluid (CSF) diversion for pediatric patients.


Drake JM: Cornell Weil Medical School, Division of Neurosurgery, Course and Workshop on Intracranial Endoscopy, New York, New York, November 2008. Invited Faculty: Course on endoscopic third ventriculostomy


Kulkarni A: American Association of Neurological Surgeons (AANS), Trauma Section, North American Senior Resident Course on Neurotrauma and Critical Care, Toronto, ON, March 2009. Guidelines for pediatric head injury management.


Rutka JT: Acibadem University School of Medicine, Istanbul, Turkey, July 2008. (1) How to build a brain tumor centre, (2) Pediatric neurosurgery oncology - lesson learned.


RESEARCH AND INVESTIGATIONS
Senior Investigator's Name Appears in Italics

Asymmetrical self renewal in normal and cancer stem cells of the human brain. Dirks P: Canadian Institutes of Health Research. ($588,180 2008 - 2013.)


Characterization of nanoparticle delivery across the blood brain barrier. Rutka JT: Brain Tumour Foundation of Canada. ($2,450,000 2009.)


Multiple genetic events converge to target histone 3 lysine 9 methylation in pediatric medulloblastoma. Taylor MD: Sontag Foundation. ($500,000 2007 - 2010.)

Mutation of neuronal differentiation genes in medulloblastoma. Taylor MD: National Cancer Institute of Canada. ($600,442 2007 - 2012.)


Quality of life in children with hydrocephalus. Kulkarni AV: SickKids Research Institute. ($55,000 2009.)
Role of hedgehog signaling in the pathogenesis of medulloblastoma. Rutka JT, Taylor MD: National Cancer Institute of Canada. ($450,000 2005 - 2008.)

Social outcomes in pediatric traumatic brain injury. Dennis M (Toronto Site), Yeates K (Ohio Site), Taylor HG: National Institutes of Health. ($1,000,000 2005-2010.)

Spina bifida: cognitive and neurobiological variability. Dennis M (Toronto Site), Fletcher J [PI-Houston Site]: National Institutes of Health. ($1,600,000 2005 – 2010.)

The effect of hospital admissions on children with hydrocephalus. Kulkarni AV: University of Toronto, Department of Surgery, RR Graham Scholarship. ($75,000 2007 – 2010.)

The influence of postoperative systemic oxygen transport on neurologic outcomes in infants undergoing the Norwood procedure with a modified Blalock-Taussig shunt or a right ventricle-pulmonary artery shunt. Van Arsdell G, Li J, Dennis M: Heart & Stroke Foundation. ($236,000 2007 – 2011.)

The influence of postoperative systemic oxygen transport on neurologic outcomes in infants undergoing single ventricle palliation with Norwood and Hybrid management strategies. Caldarone C, Dennis M: Heart & Stroke Foundation. ($120,000 2007 – 2011.)

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

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

The role of cytoskeletal GTPases in astrocytoma migration. Rutka JT: Canadian Institutes of Health Research. ($500,000 2004 - 2009.)

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

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


**HONOURS RECEIVED**

Division of Orthopaedic Surgery

Dr. B.A. Alman  Professor [Division Head]
Dr. S. Hopyan  Assistant Professor
Dr. A. Howard  Associate Professor
Dr. U.G. Narayanan  Assistant Professor
Dr. R.B. Salter  University Professor
Dr. J.H. Wedge  Professor
Dr. J.G. Wright  Professor
Dr. R. Zeller  Associate Professor

PUBLICATIONS


of injury in youth hockey: Study. 

Howard A: Fan 590 [Radio Station], Toronto, ON, March 2009. A systematic review of the association between body checking and injury in youth ice hockey.


Howard A: The Star, Toronto, ON, March 2009. Study links checking to fractures in youth hockey.


Howard A: The Star, Toronto, ON, June 2009. 7 stages of healthy bones: Skeletal changes through the years require constant adjustments in diet, exercise and behaviour to fight off bone disease. Here’s a look at how to keep bones healthy through the different stages of life.


Narayanan UG: University of Alberta, Faculties of Physical Education and Recreation/Education/Nursing and the Alberta Heritage Foundation for Medical Research, 14th International Interdisciplinary Conference on Qualitative Health Research, Banff, AB, October 2008. Concerns, needs and expectations of parents and caregivers of children with severe cerebral palsy: What do health care providers need to know.


Narayanan UG: University of Alberta, Qualitative Institute, Ontario Association of Children’s Rehabilitation Services, Annual Conference, Waterloo, ON, October 2008. The hip in cerebral palsy.


Wright JG: Spina Bifida Association, First World Congress of Spina Bifida Research and Care, Orlando, Florida, March 2009. What we know about evidence-based medicine (EBM) today for individuals with musculoskeletal problems in myelomeningocele.


Barriers to use of pediatric ankle x-ray rules. Boutis K, Narayanan U: University of Toronto, Department of Pediatrics, Creative Professional Grant. ($7,000 2007 - 2008.)

Beta-catenin in aggressive fibromatosis. Alman BA: National Cancer Institute of Canada (NCIC)-Canadian Cancer Society (CCS) Research Grant. ($681,140 2008 - 2013.)

Boosters seat legislation and injury rates by province among 4 to 9 Year olds in Canada. Howard A, MacPherson A, Rothman L, Lee P: Ontario Neurotrauma Foundation, Summer Student Grant. ($7,000 2008 - 2009.)


Cancer stem cell: Musculoskeletal tumour project leader and clinical outcomes project leader. Alman BA, Dick J [OICR - Cancer Stem Cell Program Head]: Ontario Institute for Cancer Research. ($759,000 2008 - 2012.)


 indirect vertebral derotation (DVD) for spinal deformities in children and adolescents.

Zeller R: 2nd International Congress on Early Onset Scoliosis & Growing Spine [ICEOS], Montreal, PQ, November 2008. How we best measure broadly defined issues of outcomes with expandable rods: Did I help this child?


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Development of a computer adaptive test - patient-reported outcome measure for children with physical disabilities. Tucker C (Philadelphia, PA); Gorton G (Springfield, MA); Narayanan UG (Toronto, ON), Bagley A (Sacramento, CA); Bjornson K (Seattle, WA); Stout J and Novacheck T (St. Paul, MN): American Academy of Cerebral Palsy and Developmental Medicine, Research Grant. ($22,325 2008 - 2009.)


Hedgehog signaling in cartilage neoplasia and development. Wunder JS, Alman BA: Canadian Institutes for Health Research (CIHR). ($807,945 2008 - 2013.)

Identifying the desmoid initiating cell. Alman BA: Desmoid Tumor Research Foundation. ($270,000 2006 - 2009.)


Mammalian limb development. Hopyan S: University of Toronto, Faculty of Medicine, Dean’s Fund New Staff Grant. [$10,000 2007 - 2012.]

Mammalian limb development. Hopyan S: March of Dimes, Basil O’Connor Starter Scholar Research Award Grant. [$150,000 2008 - 2010.]

Modulating hedgehog and beta-catenin signalling in osteoarthritis. Alman BA: Canadian Institutes of Health Research (CIHR), Operating Grant. ($380,000 2006 - 2009.)

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

Molecular pathology of cartilage neoplasia. Wunder JS, Alman BA: Canadian Institutes for Health Research (CIHR). ($560,000 2003 - 2008.)

Oriented cell division as a driving force for cell movement into the nascent limb bud. Hopyan S: Pediatric Orthopaedic Society of North America, Angela Kuo Awards. ($29,614 2009 - 2010.)


Provincial data regarding booster seat legislation, use, and injuries. Howard A, Snowdon A: Auto21 Knowledge Translation Grant. ($12,500 2009 - 2010.)


Safety and efficacy of botox injection in alleviating post-operative pain and improving quality of life in lower extremity limb lengthening and deformity correction: A multicenter, randomized, double-blinded, placebo-controlled study. Hamdi R (PI), Narayanan G (Toronto Site PI) and multiple collaborators: Clinical Outcomes Studies Advisory Board (COSAB) of Shriners Hospitals for Children. [$220,000 2007 - 2010.]

School playground surfacing: A randomized prospective comparison of injury rates on sand versus wood chip surfaces. Howard AW: Canadian Institutes of Health Research, New Investigator Award. ($250,000 2004-2009.)


HONOURS RECEIVED

Alman BA: J. Edouard Sampson Award [$15,000], presented by the Canadian Orthopaedic Foundation. February 2009.
Division of Plastic Surgery

Dr. H.M. Clarke  Professor  
Dr. D.M. Fisher  Assistant Professor  
Dr. C.R. Forrest  Professor  (Division Head)  
Dr. C.Y. Pang  Professor  
Dr. J.H. Phillips  Associate Professor  
Dr. R.M. Zuker  Professor  

PUBLICATIONS


INVITED VISITS TO OTHER HOSPITALS/UNIVERSITIES


Fisher DM: Operation Smile, Santa Cruz, Bolivia, South America, February 2009. (1) Guest Speaker, (2) Surgery demonstration.


Fisher DM: Operation Smile, Bolpur, India, November 2008. Volunteer plastic surgeon assigned as Field Medical Director.

Forrest CR: Association for Osteosynthesis and Synthese Maxillofacial, Salt Lake City, Utah, January 2009. Lecture: Monobloc distraction. AO challenges and advances in the management of craniomaxillofacial trauma and reconstruction focus: Distraction osteogenesis.


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**RESEARCH AND INVESTIGATIONS**

*Senior Investigator’s Name Appears in Italics*


Educational exchange with Cleft Centre, Kolkata, India. Zuker R, Cleft Centre (Kolkata, India): *Donner Foundation*. ($230,000 2007 - 2008.)


Palatal fistulae in the cleft lip and palate child: Classification and algorithm for management. Zuker R: *Cooper Foundation, Supporting a Clinical Fellowship and a Research Project*. ($100,000 2008 - 2009.)


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**HONOURS RECEIVED**

Clarke HM: Senior Fellow, Massey College, University of Toronto. April 2009.


PUBLICATIONS


**INVITED VISITS TO OTHER HOSPITALS/UNIVERSITIES**

Bagli DJ: University of Michigan, Disorders of Sexual Differentiation Research and Quality Improvement Symposium, Ann Arbor, Michigan, April 2009. Invited speaker.


Lorenzo AJ: Nationwide Children's Hospital, Pediatric Urology Research Rounds, Columbus, Ohio, April 2009. Antibiotic prophylaxis discontinuation in children with vesicoureteral reflux: Analysis of the Hospital for Sick Children experience and critical review of the literature.


Pippi Salle JL: The Mostar University Clinical Hospital, 6th International Pediatric Surgery Symposium, Mostar, Bosnia, Herzegovina, April 2009. New developments in the management of hypospadias.


RESEARCH AND INVESTIGATIONS
Senior Investigator’s Name Appears in Italics

Biologically enhanced fascia lata graft for soft tissue repair. Farhat W, Derwin K: Cleveland Clinic Foundation (Biomedical Research and Technology Transfer Program-part of Ohio’s Third Frontier Initiative). ($225,000 2005 - 2008.)


HONOURS RECEIVED

A major focus within Mount Sinai Hospital and particularly our Department of Surgery has been around efforts at improving patient safety and outcomes. This has been hastened by public reporting of many safety indicators by the Ministry of Health. Efforts to improve patient outcomes may be best exemplified by Dr. Robin McLeod’s Best Practices in General Surgery (BPIGS) program which has brought together all the University of Toronto teaching hospitals to standardize practice guidelines across general surgery. Another important safety initiative involved introduction of a new expanded surgical safety checklist following a multi-centre WHO study in the New England Journal of Medicine showing decreased patient morbidity and mortality. We are working towards replacing our current surgical safety checklist with an expanded version promoted by the Canadian Patient Safety Institute (CPSI). This was facilitated by holding educational patient safety rounds for the entire surgical program.

Both our surgical oncology and arthroplasty groups once again provided leadership within the Toronto Central LHIN by successfully increasing surgical volumes beyond our target and improving patient wait times. We also continued to make internal resource changes to facilitate accessibility for patients requiring emergency surgery, as part of the provincial Surgical Efficiency Target Program (SET).

While working on the new surgical safety checklist, the hospital received full approval by Accreditation Canada, including recognition as having 3 particular areas of Leading Practice that will be listed on the Accreditation Canada website, one of which was our multidisciplinary Sarcoma Program. This program is known nationally and internationally for best patient outcomes, development and implementation of new treatment strategies and translational research. In further support of our Sarcoma Program which is the largest in the country, Cancer Care Ontario established a Sarcoma Expert Panel made up largely of individuals from our hospital program to make recommendations to Cancer Care Ontario (CCO) and the Ministry of Health to inform improvements in provision of care and case funding.

NEW STAFF, ADMINISTRATIVE APPOINTMENTS AND LECTURESHIPS

Dr. Rebecca Gladdy was recruited back to Mount Sinai Hospital and the Lunenfeld Research Institute after completing a surgical oncology fellowship at Memorial Sloan Kettering Cancer Centre in New York. Rebecca is a MD, PhD clinician scientist who will have a major laboratory commitment dealing with sarcoma translational genetics, and a limited clinical practice focusing on retroperitoneal sarcoma. The aims of Rebecca’s research are: identifying targeted therapeutic agents for sarcoma using high-throughput screening, developing mouse models of sarcoma as a tool to validate genomic data and for pre-clinical drug testing, and translating laboratory findings to patient care via clinical trials. Rebecca was awarded an American Surgical Association Foundation Career Development Award as well as an Ontario Institute for Cancer Research (OICR) New Investigator Award. Rebecca’s recruitment will support the Surgical Oncology Group, the Sarcoma Program as well as help further improve integration between the hospital and the Lunenfeld Research Institute.
Dr. Toni Zhong was a combined recruit to the Division of Plastic Surgery at the University Health Network together with the Department of Surgery at Mount Sinai Hospital. Toni completed her plastic surgery residency training at the University of Western Ontario during which she won numerous research and clinical awards. Her fellowship in Microvascular and Reconstructive Surgery at Memorial Sloan Kettering Cancer Center in New York City was supported by a Zeiss Canada Microsurgery Scholarship. Toni’s recruitment will primarily support our surgical oncology programs, although she has a particular interest in functional and aesthetic outcomes after breast reconstructive surgery. To support her main research focus of developing a validated patient-reported outcome measure for evaluation of health-related quality of life following breast reconstructive surgery, she is currently pursuing her Masters of Science in Clinical Epidemiology at the Harvard School of Public Health.

Dr. Carol Swallow was appointed Head of the Division of General Surgery after an international search, following Dr. Robin McLeod’s completion of a very successful 10-year term building the division. Carol is a well known surgeon-scientist specializing clinically in management of retroperitoneal sarcoma and advanced colorectal cancer, and with a research program studying molecular genetics of genome instability and cancer metastasis. Carol is Program Director of the University of Toronto Surgical Oncology Fellowship Training Program which under her leadership previously received accreditation by the Society of Surgical Oncology.

Dr. Irving Rosen in the Division of General Surgery helped facilitate a philanthropic donation by Mr. Mark Daniels and the Head and Neck Cancer Foundation of Canada to establish the Rosen-Daniels Visiting Professorship in Surgical Oncology Translational Research. Our inaugural lecturer was Professor Shekhar Kumta from the Department of Orthopaedic Surgery, University of Hong Kong. He presented on: Computer - Assisted Sarcoma Surgery: Redefining the Boundaries; Improving Outcomes for Giant Cell Tumor of Bone: Novel Therapeutic Targets; and Management of Locally Advanced Sarcomas. This lectureship will rotate annually and be shared by the oncology groups in the Mount Sinai Hospital Department of Surgery.

Research productivity in terms of publications, peer-reviewed funding, and invited lectureships remained at an all time high for our department. Some of the highlights include:

Division of General Surgery
Zane Cohen completed a very successful term as Chair of the Division of General Surgery at the University of Toronto. Robin McLeod was awarded the Angelo and Alfredo De Gasperis Families Chair in Colorectal Cancer and IBD Research. Robin had an outstanding year as Surgical Lead for Quality Improvement at Cancer Care Ontario. Her broad mandate has included regionalization of high intensity services across the province based on quality of care data and widespread introduction of Multi-disciplinary Cancer Conferences (MCC) based on engagement of the larger surgical oncology community. Robin also received numerous grants including: CIHR for knowledge translation; NCI with Carol Swallow for improving gastric cancer survival; and PSI with Helen MacRae for evaluating web-based versus standard journal clubs. Helen MacRae obtained additional funding for assessment and evaluation of technical skills, further supporting her role as Director of the University of Toronto Surgical Skills Centre. Carol Swallow was promoted to Full Professor. Andrea McCart was part of two large successful multi-institutional grants aimed at investigating new biotherapeutic approaches for the treatment of cancer including oncolytic viruses, one from CIHR for $1.8M and another from OICR for $10M.

Division of Orthopaedic Surgery
Peter Ferguson was appointed Associate Program Director in Orthopaedic Surgery and will play a major role in the roll-out, development and evaluation of the new Competency-Based Curriculum (CBC) pilot project starting July 1, 2009. Peter also became the Sarcoma Site Group Leader at Princess Margaret Hospital. Oleg Safir became the lead for developing the first clinical module for the CBC residency training initiative. David Backstein continued to improve the medical school’s surgical curriculum in his leadership roles as Director of Undergraduate Education and Director of the Surgical Clerkship for the Department of Surgery. Oleg Safir and David Backstein continued their research programs in training and evaluation with five peer-reviewed grants, three of which came from the Network of Excellence in Simulation for Clinical Teaching and Learning [NESCTL]. Jay Wunder was the Sarcoma Lead in a $760,000 Cancer Stem Cell grant from the Ontario Institute for Cancer Research. John Theodoropoulos, appointed at both Mount Sinai and Women’s College Hospitals in the sports program, was a co-applicant on a grant from the Canadian Arthritis Network investigating repair of cartilage defects.

Division of Urology
Ethan Grober became Chair of the Andrology Special Interest Group of the Canadian Fertility and Andrology Society. Ethan received a Canadian Urological Association scholarship, as well as funding from both The Physicians’ Services Incorporated Foundation [PSI] and the Royal College of Physicians and Surgeons of Canada for his investigations into acquisition and evaluation of surgical skills. Kirk Lo was awarded the A.W. Bruce Faculty Undergraduate Teaching Award. Kirk was also nominated as Program Chair for the Society for the Study of Male Reproduction and the American Society of Reproductive Medicine. Alex Zlotta was an invited speaker at no less than ten international urologic oncology meetings. He also received over $1M in grant funding, including a CIHR grant investigating the kallikrein family in prostate cancer, and two others together with Keith Jarvi involving PSA screening [OICR] and calcium ion transport in prostate cancer [CIHR].
Division of General Surgery

Dr. Z. Cohen
Professor

Dr. A.M. Easson
Assistant Professor

Dr. R.A. Gladdy
Assistant Professor

Dr. R. Gryfe
Assistant Professor

Dr. I.H. Koven
Associate Professor

Dr. H.M. MacRae
Associate Professor

Dr. J.A. McCart
Assistant Professor

Dr. R.S. McLeod
Professor

Dr. I.B. Rosen
Professor

Dr. C.J. Swallow
Professor [Division Head]

PUBLICATIONS


INVITED VISITS TO OTHER HOSPITALS/UNIVERSITIES


MacRae HM: National Institute of Medical Science and Nutrition, Department of Surgery and Service of Colorectal Surgery (Chairman Salvador Zubiran), International Colorectal Meeting, Mexico City, Mexico, February 2009. Round table of select topics in colorectal surgery: (1) Current concepts in the management of colon cancer, (2) Laparoscopic sigmoidectomy in diverticular disease, (3) Sexual dysfunction in rectal surgery, (4) Surgical management of perineal Crohn’s disease, (5) Total colectomy: How I do it.


McLeod RS: Louisville Surgical Society, Louisville, Kentucky, January 2009. Evidence-based practice in surgery - Can we do better?

McLeod RS: University of Louisville, School of Medicine, Department of Surgery, Section of Colon and Rectal Surgery, Louisville, Kentucky, January 2009. Translating evidence into practice: The Cancer Care Ontario experience.

McLeod RS: American College of Surgeons, Puerto Rico Chapter, Puerto Rico, February 2009. 29th F.L. Raffucci Honored Lecture: Evidence in surgery - Can we do better?


McLeod RS: Cambridge Research Institute, Cambridge, United Kingdom, May 2009. (1) Outcome following surgery for rectal cancer, (2) Sexual function and fertility issues following ileal pouch anal anastomosis [IPAA].


RESEARCH AND INVESTIGATIONS

Senior Investigator’s Name Appears in Italics


Assessment of the relief of symptoms after the drainage of ascites: An evaluation of four questionnaires. Easson AM, Bezjak A, Ross S, Wright J: Dean’s Fund New Staff Award. [$10,000 2008 - 2009.]

Associated Medical Services fellow in end of life care. Easson AM: Associated Medical Services. [$125,000 2004 - 2009.]

Combined oncolytic virotherapy and targeted radiotherapy for peritoneal carcinomatosis. McCart JA, Reilly RM, Fish EN: Canadian Institutes of Health Research. [$325,000 2007 - 2010.]


Functional genetics and selective therapies in sarcoma. Gladdy RA: Ontario Institute for Cancer Research, Clinician Investigator Award. [$350,000 2008 - 2013.]

Gene genetic mechanisms of sarcomagenesis. Gladdy RA: American Surgical Association Foundation Fellowship, Career Development Award. [$150,000 2008 - 2010.]


Interdisciplinary research on the determinants and impact of colorectal cancer: Molecular genetic factors, risk modifiers and population health. McLaughlin J, Gryle R [Team Leader]: Canadian Institutes of Health Research, Team Grant for Molecular Epidemiological Studies of Patient Outcome and Response to Treatment ($203,706 over 3 years). [$3,627,210 2006 - 2010.]


Plk4 and chromosomal instability. Swallow CJ, Dennis JW: Canadian Institutes of Health Research. [$447,000 2006 - 2009.]

Randomized controlled trial comparing the effectiveness of a web-based journal club to a standard journal club format to teach critical appraisal skills. McLeod RS, MacRae H, Brasel K: The Physicians’ Services Incorporated Foundation. ($93,000 2008-2009.)


**HONOURS RECEIVED**

**Cohen Z:** Honouree-Paul Penna Downtown Jewish Day School. June 2009.

**Gladdy RA:** Award of Courage, Groin Sarcoma Fellow, Memorial Sloan-Kettering Cancer Centre. July 2008.

**McLeod RS:** Angelo and Alfredo de Gasperis Families Chair in Colorectal Cancer and Inflammatory Bowel Disease (IBD) Research. October 2008.
Division of Orthopaedic Surgery

Dr. D. Backstein  
Associate Professor

Dr. R.S. Bell  
Professor

Dr. B.M. Deheshi  
Lecturer

Dr. P.C. Ferguson  
Assistant Professor

Dr. A.E. Gross  
Professor

Dr. O. Safir  
Assistant Professor

Dr. J. Theodoropoulos  
Lecturer

Dr. J.S. Wunder  
Professor (Division Head)

PUBLICATIONS


**INVITED VISITS TO OTHER HOSPITALS/UNIVERSITIES**


**Backstein D:** University of Ottawa, Department of Surgery, Grand Rounds, Ottawa, ON, November 2008. A new model for technical skills development.


**Bell RS:** Canadian Health Services Research Foundation, Kananaskis, AB, February 2009. Becoming a leader for the use of research-based evidence in healthcare organizations.

**Bell RS:** Gulf Cooperation Council Conference on Patient Safety, Manama, Bahrain, April 2009. Making patient safety a strategic priority.
Bell RS: Economic Club, Toronto, ON, May 2009. Our public healthcare system - value for money and getting more value.

Bell RS: Ontario Hospital Association Convention, Toronto, ON, November 2008. Good governance is essential for improving hospital safety and quality.


RESEARCH AND INVESTIGATIONS
Senior Investigator’s Name Appears in Italics


Effect of bench model training on cognitive learning in the operating room. Backstein D, Syed K: Physicians’ Services Incorporated. [$32,000 2008.]


Wunder JS: Kyoto University, Kyoto, Japan, July 2008. From development to chondrosarcoma: Hedgehog signaling in chondrocytes.


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


The educational value of pre-training fundamental technical skills in surgical clerkship. Backstein D, Dubrowski A, Kurahshi A: Education Development Fund. ($20,000 2007 - 2008.)

**HONOURS RECEIVED**

Division of Urology

Dr. E.D. Grober  Assistant Professor
Dr. K. Jarvi  Professor [Division Head]
Dr. K.C. Lo  Assistant Professor
Dr. A.R. Zlotta  Professor

PUBLICATIONS


INVITED VISITS

Grober ED: Solvay Pharma/Primary Care Physicians of the Greater Toronto Area, Toronto, ON, March 2009. Testosterone replacement therapy: An emerging link between metabolic syndrome and type 2 diabetes.


Lo KC: Canadian Cancer Society, Toronto, ON, April 2009. Bladder Cancer.


Zlotta AR: Belgian Association of Urology (BAU), Brussels, Belgium, October 2008. Prostate cancer: How do we see the future? Diagnosis and screening. Clinical cases on when to do a biopsy and to explain the results to the patients.


Canadian Urological Association scholarship. Grober E, Jewett MAS: Canadian Urological Association Scholarship Foundation. ($40,000 2008 - 2009.)


Male sexual and reproductive medicine digital patient resource program. Grober E, Jarvi K: Eli Lilly Canada Inc. ($10,000 2009.)

Male reproductive and sexual medicine digital video atlas. Grober ED, Jarvi KA: Lilly Canada. ($10,000 2008.)


Semen proteomics - discovery of prostate cancer biomarkers. Lo KC, Jarvi K, Diamandis E: Cyp pres - [Judgement of the Honourable Mr. Justice John Brockenhurst]. ($60,000 2009.)


Honours Received

The past year has been a good one for the Department of Surgery at St. Joseph’s Health Centre. The increased funding in the areas of cancer surgery, along with hip and knee replacement, has helped to significantly reduce wait times and increase patient satisfaction. The hospital has been designated as a Level I Thoracic Centre and we are eagerly awaiting the arrival of Dr. Maurice Blitz, who will become our third thoracic surgeon.

In the spring of 2009, the Ministry of Health announced support for a University of Toronto collaborative program in bariatric surgery. St. Joseph’s Health Centre is integrally involved in this program and the plan will be for us to do 180 bariatric surgical procedures annually. In the first year, which began April 1/09, we are planning to do 90 surgeries.

The teaching program of the Department of Surgery continues to increase in both residents and students. We are now receiving clinical clerks in general surgery as part of their core rotation.

The hospital has also approved the construction of two additional advanced MIS suites and we are planning for construction next year.

**APPointments and Promotions**

Dr. Martin Roscoe was promoted to Assistant Professor in the Division of Orthopaedic Surgery, recognizing his contribution to teaching and clinical excellence.

Dr. George Vincent was appointed the Head of the Division of Orthopaedic Surgery at St. Joseph’s, effective July 1, 2008. He replaced Dr. Martin Roscoe whose term was finished.

**Awards**

Dr. Yaron Shargall won a Bruce Tovee Teaching Award for teaching undergraduate students. He also won the St. Joseph’s Teaching Award for Thoracic Surgery.

Dr. Tom Harmantas won the Ernie Spratt Award for resident teaching in the Division of General Surgery, St. Joseph’s Health Centre.

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

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

**Conclusion**

The Department of Surgery continues to work towards 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 further.

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

Dr. T.A. Harmantas  Assistant Professor (Division Head)
Dr. R.S. Hart  Lecturer
Dr. D.R. Lindsay  Lecturer
Dr. L.C. Smith  Associate Professor
Dr. P.A. Sullivan  Lecturer

Division of Orthopaedic Surgery

Dr. A.W. ElMaraghy  Assistant Professor
Dr. M. Kliman  Lecturer
Dr. M. Roscoe  Lecturer
Dr. G. Vincent  Assistant Professor (Division Head)
Dr. M. Wood  Lecturer

PUBLICATIONS


INVIDTED VISITS TO OTHER HOSPITALS/UNIVERSITIES


ElMaraghy AW: United Arab Emirates 7th International Conference on Anesthesia, Critical Care, and Pain Management, Dubai, United Arab Emirates, February 2009. (1) Damage control orthopaedics, (2) Variability in the choice of surgical setting and anesthetic technique for carpal tunnel release.


RESEARCH AND INVESTIGATIONS

Senior Investigator’s Name Appears in Italics

Morphometric assessment of acromial interaction with the clavicular hook plate. ElMaraghy AW, Devereaux MD: Synthes Canada Ltd. ($30,000 2007 - 2009.)

HONOURS RECEIVED


Shargall Y: The Bruce Tovee Teaching Award, Gallie Day - April 2009, University of Toronto, Department of Surgery
The Department has experienced another year of successes emanating from across our surgical programs.

We embraced change as the Chief Executive Officer of St. Michael’s Hospital, Mr. Jeff Lozon, decided to step down from his position of 17 years. Mr. Lozon left a legacy of unsurpassed leadership, innovation, generosity and compassion. Our new Chief Executive Officer, Dr. Robert Howard, has been appointed and will imprint his own signature on the position and the Institution.

In the clinical domain, our numbers of surgical cases and total hours of surgery increased over the prior year. Importantly, considerable innovation has been added to the operating room environment. Our endovascular cases have increased threefold with the arrival of Claudio Cina to our faculty. We have initiated a percutaneous aortic valve program under the leadership of Mark Peterson and our surgical robotics program headed by John Honey is thriving. Our clinical programs have been buttressed by the addition of new faculty in important areas: Ralph George who will lead our Breast Centre and Bernard Lawless to our trauma program with an academic focus on health care delivery in Trauma/Critical Care.

Our research efforts have been bolstered by targeted recruitment of researchers to complement the work of our existing scientists and clinician-scientists. Two such recruits, Katalin Szaszi and Wolfgang Kuebler, were successful in grant accrual including recent CIHR competitions. Dr. Subodh Verma was awarded a CIHR and several Heart and Stroke Foundation of Canada awards.

Awards, honours, invited lectures were plentiful and are articulated in our individual hospital report. Notably, Nancy Baxter was successful in obtaining a Tier 1 Cancer Care Ontario Research Chair awarded in Health Services. Locally, St. Michael’s Hospital hosted its Annual Physicians Education Achievement Day. Our Faculty has been recognized for their excellence in teaching by receiving a number of recognition awards. Dr. Danny Whelan received the William Horsey Post-graduate Teaching award and Dr. Julian Spears was awarded the Donald J. Currie Teaching award for Undergraduate Teaching. The newly created Jameel Ali Award in Continuing Education in Surgery was awarded to Dr. Lee Errett for his sustained contribution to the success of the Annual Terrence Donnelly Day. Dr. Teodor Grantcharov was appointed the Director of the Allan Waters’ Family Patient Simulation Centre and Dr. Timothy Daniels was named Head of the University Foot and Ankle Program. We enthusiastically look forward to the opening of the Li Ka Shing Knowledge Institute in fall 2010. The Knowledge Institute will bring together leading edge research and new models of education to shape the future of surgery and medicine and bring advances to patient bedsides faster than ever before. Faculty members promoted to the level of Full Professor were Drs. James Mahoney and Andras Kapus. Promoted to the level of Assistant Professor were Drs. Vern Campbell and Wayne Tanner.

As we enter the new academic year, we look forward to the opportunities that arise out of the innumerable challenges of our profession.
Division of Cardiovascular Surgery

Dr. D. Bonneau  Associate Professor
Dr. L.E. Errett  Professor  (Division Head)
Dr. D.A. Latter  Associate Professor
Dr. M.D. Peterson  Assistant Professor
Dr. S. Verma  Associate Professor

PUBLICATIONS


### INVITED VISITS


**Latter DA:** Centennary Hospital Cardiologists, Toronto, ON, April 2009. Mitral valve disease.

**Peterson MD:** Rouge Valley Health System - Cardiovascular/Cardiology, Rouge Valley Centenary, Scarborough, ON, October 2008. Endovascular aortic procedures.

**Peterson MD:** Canadian Cardiovascular Society, Canadian Perspectives on the European Society of Cardiology/American Heart Association (ESC/AHA’08), Toronto, ON, November 2008. SYNergy between PCI with TAXus and cardiac surgery (SYNTAX) study: Revascularization strategies for multi-vessel coronary disease.

**Peterson MD:** St. Mary’s General Hospital, Grand Rounds, Kitchener, ON, November 2008. Endovascular and aortic surgery: A paradigm shift in surgical practice?

**Verma S:** The International Academy of Cardiology, Toronto, ON, July 2008. Angiotensin converting enzyme (ACE2) is a novel regulator of endothelial function and atherosclerosis.


### RESEARCH AND INVESTIGATIONS


**A prospective study to compare the functionality of high density lipoprotein (HDL)-cholesterol to limit endothelial dysfunction in South Asian versus Caucasian patients with atherosclerosis.** Verma V, Teoh H: Heart & Stroke Foundation of Ontario. [$50,000 2008 - 2010.]

**Angiotensin converting enzyme (ACE2) and atherosclerosis.** Levitt K, Verma S: The Physicians' Services Incorporated Foundation. [$20,000 2008 - 2009.]


**Plasma renin activity and cardiovascular outcomes in the heart outcomesc prevention evaluation (HOPE) study.** Verma S, Gupta M, Lonn E, Yusuf S: Novartis Pharmaceuticals Canada Inc. [$230,345 2008 - 2010.]

**Primary cARe AuDIt of Global risk Management (PARADIGM Study).** Gupta M, Verma S: Astrazeneca Canada. [$3,360,000 2008 - 2009.]
Rodent cardiovascular and physiological investigations. Verma S. Canada Foundation for Innovation and Ontario Research Fund for Research Infrastructure Funding. ($259,000 2007 - 2009.)


Telomerase regulation by C-reactive protein. Verma S: Canadian Institutes of Health Research. ($330,000 2005 - 2008.)

Traineeship in atherosclerosis program. Verma S: Canadian research and development (Rx&D) companies. ($1,200,000 2006 - 2010.)

**HONOURS RECEIVED**


**Errett LE**: University of Toronto 2009 Award for Excellence in Postgraduate Medical Education in Development/Innovation. March 2009.

Division of General Surgery

Dr. N. Ahmed  Assistant 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. Grancharov  Assistant Professor
Dr. A. Kapus  Professor
Dr. J. Koo  Associate Professor
Dr. W. 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 TO OTHER HOSPITALS/UNIVERSITIES**

Ali J: McMaster University, Department of Surgery, Trauma Division, Advanced Trauma Life Support Program Director, Hamilton, ON, January 2009. Instructor course on advanced trauma life support (ATLS).

Ali J: St. George’s University, Grenada, January 2009. (1) Advanced trauma life support course for physicians, (2) Prehospital trauma life support (PHTLS) program for ambulance personnel.


Ali J: University of Manitoba, Department of Surgery, Advanced Trauma Life Support Program Director, Winnipeg, MB, February 2009. Instructor course on advanced trauma life support (ATLS).


Ali J: All India Institute of Medical Sciences, Ansari, Nagar, New Delhi, April 2009. (1) Provider and instructor courses: Promulgation of inaugural advanced trauma life support, (2) Second advanced trauma life support.

Ali J: University of West Indies, Mount Hope, Trinidad and Tobago/Barbados, West Indies, July 2008. External examiner for emergency medicine program.


Ali J: American College of Surgeons, International ATLS Meeting, San Francisco, California, October 2008. (1) Instructor course on advanced trauma life support (ATLS), (2) Presentation of curriculum for new ATLS instructor course and telemedicine ATLS project to American College of Surgeons.

Ali J: American College of Surgeons and Fujairah Hospital, Abu Dhabi, United Arab Emirates, October 2008. (1) Instructor provider for ATLS course, (2) Educator for two advanced trauma life support (ATLS) instructor courses, (3) Lecture at symposium on emergency and trauma.


Ali J: Fujairah Hospital, 2nd Emirates Emergency Surgery and Trauma Conference, Fujairah, United Arab Emirates, November 2008. Chairman of three sessions and keynote speaker: (1) Issues in trauma resuscitation in the emergency department, (2) Advanced trauma life support - Historical perspectives and lessons learned, (3) Inaugural instructor course on advanced trauma life support (ATLS) for (a) Physicians from India, (b) Physicians from United Arab Emirates.

Ali J: Queen Elizabeth Hospital, Dalhousie University, Nova Scotia, November 2008. Instructor course on advanced trauma life support (ATLS).


Baxter N: University of Madison, Update in Colon and Rectal Surgery, Madison, Wisconsin, April 2009. (1) Optimizing standards in the surgical management of rectal cancer, (2) Should colon cancer be resected laparoscopically? What is the evidence?


Bohnen JMA: Canadian Association of General Surgeons (CAGS), Canadian Surgery Forum, Halifax, NS, September 2008. (1) Serious soft tissue infections, (2) Surgical jeopardy [invited contestant], (3) Whither generalism: Is there a problem for surgery training?

Bohnen JMA: Janes Surgical Society, Jackson’s Point, ON, September 2008. Surgery 25 years later... Are we better?

Burnstein MJ: University of Calgary, Calgary, AB, March 2009. Visiting Professor: (1) Rectal cancer: Have we perfected operative management?, (2) Royal College examination preparation for final year residents, 3) Case presentations with final year residents.


Burnstein MJ: Lahey Clinic Medical Center, Division of Colon and Rectal Surgery, 6th Annual Lahey Clinic Alumni Professorship, Boston, Massachusetts, November 2008. Visiting Professor: Rectal cancer management - A Canadian perspective.

George RL: Memorial University of Newfoundland, Department of Surgery, Residents Research Day, St. John’s, NL, October 2008. (1) Visiting Professor, (2) Judge of resident research presentations, (3) Guest Speaker: Surgeons who have won the Nobel prize: Emphasis on Canadian winners.


Marshall JC: Society of Critical Care Medicine, 38th Critical Care Congress, Nashville, TN, February 2009. Sepsis: What does infection have to do with it?


Marshall JC: Canadian Critical Care Trials Group, Resident Research Education Day, Picton, ON, June 2009. The role of research in critical care practice.


Marshall JC: European Society of Intensive Care Medicine, 21st Congress, Lisbon, Portugal, September 2008. (1) Maintenance of gut integrity: The role of enteral nutrition, (2) We need a biologic definition of sepsis, Pro.


Rotstein OD: Dalhousie University, Department of Surgery, Grand Rounds, Halifax, NS, January 2009. Fluid resuscitation strategies following trauma.


Rotstein OD: The Canadian Society for Clinical Investigation, Annual Conference and Young Investigators Forum, Toronto, ON, September 2008. Mentoring of clinician-investigators: A joint responsibility of faculty and funders - What can the faculty do to help this process?


Rotstein OD: Ontario Association of General Surgeons, Annual General Meeting, Toronto, ON, November 2008. Wait time initiative: Is the wait strategy working?


RESEARCH AND INVESTIGATIONS
Senior Investigator’s Name Appears in Italics

Graduate Scholarship - Doctoral. Hill A, Nathens AB, Fowler RA [Supervisors]: Canadian Institutes of Health Research/Frederick Banting and Charles Best Canada. ($105,000 2008 - 2011.)


Age of blood evaluation (ABLE) trial in the resuscitation of critically ill patients. Lacroix J, Blachman MA, Callum JL, Cook DJ, Fergusson DA, Hebert PC, Marshall JC, McIntyre LL, Skrobik Y, Tinmouth AT: Canadian Institutes of Health Research. ($1,040,668 2008 - 2012.)

Application for a calibrated densitometer and microcentrifuge for studies on epithelial cell physiology and pathology. Szaszki K, Kapus A: National Sciences and Engineering Research Council [NSERC], Equipment grant. ($32,000 2008 - 2009.)


Canada Research Chair in Trauma Systems Development. Nathens AB: Canadian Government. ($500,000 2006 - 2011.)


CIHR emerging team: Colorectal cancer screening. Rabeneck L, Dobrow M, Paszat L, Ritvo P, Stukel T, Baxter NN: Canadian Institutes of Health Research. ($1,735,300 2008 - 2013.)
Clinical research network for the treatment of acute lung injury (ALI) and acute respiratory distress syndrome (ARDS) (2.5% effort). Nathens AB: National Institutes of Health. ($9 2006 - 2012.)


Expression, localization and function of epithelial ion transporters under physiological and pathological conditions. Kapus A: National Sciences and Engineering Research Council (NSERC) of Canada. ($160,000 2007 - 2009.)

High contrast, large field of view optical coherence tomography. Fraser J, George R, Yang V: Canadian Imaging Network Ontario. ($114,400 2007 - 2009.)


Mechanisms of macrophage priming for LPS signaling by oxidative stress. Rotstein OD: Canadian Institutes of Health Research. ($110,162 2005 - 2010.)


PROphylaxis of ThromboEmbolism in Critical Care Trial [PROTECT]. Cook DJ, Marshall JC: Canadian Institutes for Health Research. ($4,800,000 2005 - 2009.)


Regulation of epithelial paracellular permeability by apical transport processes. Szaszi K: National Sciences and Engineering Research Council, Operating Grant. ($180,000 2006 - 2011.)

Regulation of intercellular contacts in kidney tubular epithelium. Szaszi K: Kidney Foundation of Canada, Kidney Research Scientist Core Education and National Training (KRESCENT) Program, New Investigator Award, Kidney Foundation of Canada. ($180,000 2007 - 2010.)


The role of the cell contact-cytoskeleton-nucleus axis in epithelial-mesenchymal transition of kidney tubular cells. Kapus A, Szaszi K: Kidney Foundation of Canada. ($100,000 2007 - 2009.)

Trauma system design: An evaluation of structure and process. Nathens AB, Morrison L, Rubenfeld G: Canadian Institutes of Health Research. ($139,287 2008 - 2009.)

Treatment and survivorship in young adults with Cancer. Baxter NN, Urbach D, Rabeneck L: Ontario Ministry of Research and Innovation, Early Researcher Award. ($190,000 2007 - 2012.)
HONOURS RECEIVED


Mustard RA: Recognized for Outstanding Contribution to General Surgery Residency Training at the University of Toronto during the Annual Assembly of General Surgeons and Residents. June 2009.
Division of Neurosurgery

Dr. M.D. Cusimano  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
Dr. W.S. Tucker  Associate Professor

PUBLICATIONS


INVITED VISITS TO OTHER HOSPITALS/UNIVERSITIES

Cusimano MD: Xinxiang Medical University in China, Visiting Professor, Xinxiang, China, November 2008.

Ginsberg HJ: University of West Indies, Neuroscience Symposium, Montego Bay, Jamaica, January 2009. (1) Decision making in thoracolumbar trauma, (2) Update of surgical treatment of thoracic disc herniation.


Macdonald RL: Drezel University, College of Medicine, Department of Neurosurgery/Allegheny General Hospital, Pittsburgh, Pennsylvania, November 2008. Visiting Professor: Delayed neurological deterioration after subarachnoid hemorrhage.

Perrin RG: Buffalo State University, Division of Neurosurgery/Millard Fillmore Hospital, Buffalo, New York, June 2009. Canadian, Eh?


RESEARCH AND INVESTIGATIONS


3-D computer simulator of spinal fusion surgery. Ginsberg H, Whyne C: Stryker Canada. [$15,000 2006 - 2008.]

A driving simulator study of brain tumour patients with focal cerebellar lesions. Cusimano M, Schweizer TA, Cantelmi D: Brain Tumour Foundation of Canada. ($25,000 2008 - 2009.)

Bicyclists’ injuries and the cycling environment [BICE]. Teschke K (UBC-Vancouver), Cusimano M (Toronto Lead Investigator), Chipman M, Friedman S: Heart & Stroke Foundation. ($329,000 2007 - 2008.)

Bicyclists’ injuries and the cycling environment [BICE]. Teschke K (UBC-Vancouver), Cusimano M (Toronto Lead Investigator), Chipman M, Friedman S: Canadian Institutes of Health Research. ($250,000 2007 - 2008.)


Calcium channels in cerebral vasospasm. Macdonald L: Physicians’ Services Incorporated. ($158,000 2007 - 2009.)


Cerebral infarction as a surrogate endpoint for outcome after subarabachoid hemorrhage. Macdonald RL, Tan A (Queen’s University medical student): Canadian Stroke Network. ($7,000 2009.)


Cognitive deficits after experimental subarachnoid hemorrhage. Macdonald RL, Levine A (University of Western Ontario undergraduate student): Institute of Medical Science. ($4,800 2009.)


Cognitive neuroscience research lab. Schweizer TA: St. Michael’s Hospital, Research Start-Up Grant. ($18,000 2007 - 2010.)


Currently investigating novel strategies for intra-operative navigation during spinal instrumentation surgery. Ginsberg H, Cobbold R: National Sciences and Engineering Research Council [NSERC]-$15,000 and DePuy Spine (subsidiary of Johnson and Johnson)-$30,000. ($45,000 2006 - 2008.)

Design and testing of a novel posterior spinal fusion device providing a less invasive and faster alternative to current techniques. Ginsberg H, Whyne C, Singh D: Canadian Institutes of Health Research. [$105,000 2009 - 2012.]

Development of a prediction model for intracranial aneurysm recanalization risk after endovascular treatment. Spears J: Heart & Stroke Foundation. ($64,000 2008 - 2009.)


Endothelial and neuronal nitric oxide synthase expression after subarachnoid hemorrhage. Macdonald RL, Sabri M: St. Michael’s Hospital. ($4,000 2008.)

Endothelial and vascular smooth muscle differential gene expression in microcirculatory vasospasm following subarachnoid hemorrhage. Macdonald RL, Cook DJ: Brain Aneurysm Foundation, Research Grant. ($10,000 2008 - 2010.)

Evaluations of natalizumab as continuous therapy (ENACT) trial: Evaluating neuroprotection in aneurysm coiling therapy. Macdonald RL: St. Michael’s Hospital. ($3,900 2008 - 2010.)

Hippocampal radiosurgery exposure and memory. Menard C, Cusimano MD: Brain Tumor Foundation. ($22,950 2007 - 2008.)

Importance of vasospasm in determining outcome after subarachnoid hemorrhage. Macdonald RL, Khezri N (University of Toronto medical student): Comprehensive Research Experience for Medical Students (CREMS), Summer Program. ($4,000 2009.)


International study of clinical and radiographic events in the management of medium and large cerebral aneurysms. Spears J: Heart & Stroke Foundation, Clinician-Scientist Phase I Award, Renewed Grant. ($192,000 2008 - 2009.)

Neurobehavioural effects of subarachnoid hemorrhage on rats. Macdonald RL, Tarig A: Institute of Medical Sciences. ($4,000 2008.)
Pedicle screw insertion cadaver and simulator study. 
Ginsberg H, Whyne C, Massicotte E, Martin A: St. Michael’s 
Hospital, Trauma and Neurosurgery Multi-Disciplinary 
Small Grant Program. ($2,000 2008 - 2009.)

Preventing recurrence of chronic subdural hematomas. 
Macdonald RL, Tang E: St. Michael’s Hospital. ($4,000 2009.)

Simulated driving performance following brain damage. 
Schweizer TA, Slutsky A: ACCELERATE Ontario, 
Ontario’s Graduate Research Internship Program. [$15,000 
2008 - 2009.]

Spinous process less invasive extendable [SPLINE] fusion - 
A less invasive extendable device for posterior spinal fusion. 
Ginsberg H, Whyne C, Devin Singh D: Ministry of Research 
and Innovation, Ontario Research Commercialization 
Program, Proof of Principle Phase 1 Grant. [$10,000 
2007 - 2008.]

The fractionation and localization of attentional and language 
processing in the cerebellum. Stuss DT, Alexander MP, 
Schweizer TA, Cusimano M: Canadian Institutes of Health 
Research, MOP-79491. [$270,444 2006 - 2010.]

Treatment of subarachnoid hemorrhage with human 
($60,000 2006 - 2009.)

Youth Science and Technology Outreach Program (YSTOP). 
Slutsky AS, Kohn M, Cusimano MD, O’Campo P, Yardy 
G, O’Neil J, Dunn J, Dias M, Falk M, Kidd M, Omeara P, 
Gobin S, Vernon S, Barker S, Evans T, Naik V: Ministry of 
Innovation. ($89,575 2007 - 2010.)

**HONOURS RECEIVED**

Spears JS: Alan R. Hudson Neurosurgery Resident Teaching 
Award. May 2009.

Spears JS: Donald J. Currie Undergraduate Teaching 
Award. June 2009.

Tucker WS: Canadian Medical Association Life Membership 
Award. March 2009.

Division of Orthopaedic Surgery

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

PUBLICATIONS


Daniels TR: Foot and ankle history and examination. Audio-Digest Orthopaedics: October 2008: 31(10).


internal fixation versus total elbow arthroplasty for displaced intra-articular distal humeral fractures in elderly
ahead of print: September 26, 2008.

Nousiainen MT, McConnell AJ, Zdero R, McKee MD, Bhandari M, Schemitsch EH: The influence of the number
of cortices of screw purchase and ankle position in Weber C ankle fracture fixation. Journal of Orthopaedic Trauma:

Olsen M, Davis ET, Gallie P, Waddell JP, Schemitsch EH:
The reliability of radiographic assessment of femoral neck-
and implant angulation in hip resurfacing arthroplasty.

Olsen M, Davis ET, Waddell JP, Schemitsch EH:
Imageless computer navigation for placement of the
femoral component in resurfacing arthroplasty of the hip.
The Journal of Bone and Joint Surgery [British Volume]:

Olsen M, Gamble P, Chiu M, Turnia N, Boyle RA,
Schemitsch EH: Assessment of accuracy and reliability in
preoperative templating for hip resurfacing arthroplasty.

Payandeh JB, McKee MD: Chapter 41: Fracture
dislocations of the elbow with complex instability. In:
Operative Techniques in Orthopaedic Surgery: [Ramsey
M, Williams G, eds.] Lippincott Williams and Wilkins,

Poolman RW, Swiontkowski MF, Fairbank JC,
Schemitsch EH, Sprague S, de Vet HC: Outcome
instruments: Rationale for their use. Journal of Bone and

Schemitsch EH, Bhandari M, McKee MD, Zdero R,
Tornetta 3rd P, McGeehe JB, Hawkins RJ: Orthopaedic
surgeons: Artists or scientists? Journal of Bone and Joint

Smythe HA, Bogoch ER: Common measures and analytic
techniques provide flawed assessments of pain: Modeled
data and hip replacement study. Journal of Rheumatology:
December 2008: 35: pp 2400-2405. E-published ahead of
print: November 15, 2008.

SPRINT [Study to Prospectively Evaluate Reamed
Intramedullary Nails in Patients with Tibial Shaft
Fracture] Investigators: Statistical issues in the design
and analysis of expertise-based randomized clinical trials.
Statistics in Medicine: December 2008: 27[30]: pp 6583-
6596.

SPRINT [Study to Prospectively Evaluate Reamed
Intramedullary Nails in Patients with Tibial Shaft
Fracture] Investigators including McKee MD: Randomized
trial of reamed and unreamed intramedullary nailing of
tibial shaft fractures. The Journal of Bone and Joint Surgery

Whelan DB: Should first-time shoulder dislocators be
stabilized surgically? In: Evidence Based Orthopedics –
The Best Answers to Clinical Questions: [Wright JG
[principal], Whelan DB [Section, eds.]] Saunders Elsevier,

Whelan DB, Dainty KN, Chan D, Mohtadi NG: Autograft
choice in anterior cruciate ligament reconstruction:
Should it be patellar tendon or hamstring tendon? In:
Evidence Based Orthopedics – The Best Answers to
Clinical Questions: [Wright JG [principal], Whelan DB
[Section, eds.]] Saunders Elsevier, Philadelphia,

Whelan DB, Levy B, Stannard JP, Fanelli GC, Stuart
MJ, Boyd JL, MacDonald PA, Marx RG: Controversies
in the treatment of knee dislocations and multiligament
reconstruction. Journal of the American Academy of

Wong J, El Beheiry H, Rampersaud YR, Lewis S, Ahn H,
De Silva Y, Abrishami A, Baig N, McBroom RJ, Chung F:
Tranexamic acid reduces perioperative blood loss in adult
patients having spinal fusion surgery. Anesthesia and

Zdero R, Olsen M, Bougherara H, Schemitsch EH:
Cancellous bone screw purchase: A comparison of
synthetic femurs, human femurs, and finite element
analysis. Proceedings of the Institution of Mechanical

Zdero R, Olsen M, Elfatori S, Skrinskas T, Nourhosseini H,
Wynie C, Schemitsch EH, Von Schroeder H: Linear
and torsional mechanical characteristics of intact and
reconstructed scapholunate ligaments. Journal of

Zdero R, Olsen M, Elfatori S, Skrinskas T, Schemitsch EH,
Wynie C, Von Schroeder H: A biomechanical assessment
of the coupling of torsion and tension in the human
scapholunate ligament. Proceedings of the Institution

Zdero R, Schemitsch EH: The effect of screw pullout rate
on screw purchase in synthetic cancellous bone. Journal
of Biomechanical Engineering: February 2009: 131[2]:
pp 024501.

Złowodzki M, Tornetta 3rd P, Haidukewych G, Hanson BP,
Petrisor B, Swiontkowski MF, Schemitsch EH,
Giannoudis PV, Bhandari M: Femoral neck fractures:
Evidence versus beliefs about predictors of outcome.
INVITED VISITS TO OTHER HOSPITALS/UNIVERSITIES

**Ahn H:** Association for Osteosynthesis (AO), Las Vegas, Nevada, January 2009.  Spine trauma and regenerative spine Course.


**Ahn H:** Mohit Bandari, Mississauga, ON, November 2008.  Principles and practise of clinical research course – Evidence-based medicine.

**Ahn H:** Stryker Spine, USA, Fort Lauderdale, Miami, November 2008.  North South debate: Spinal surgery.

**Ahn H:** Stryker, Toronto, ON, December 2008.  Canadian orthopaedic trauma review course for residents.

**Bogoch ER:** World Federation of Public Health Associations, 12th World Congress on Public Health, Istanbul, Turkey, April 2009.  Strategies for fracture secondary prevention in Canada.


**Bogoch ER:** University of Calgary, Division of Orthopaedic Surgery, Academic Half Day, Calgary, AB, September 2008.  (1) Osteoporosis: The epidemic, implications and solutions, (2) Fracture intervention programs, (3) Osteoporosis: What’s in it for our patients?

**Daniels TR:** University of Rochester, Grand Rounds, Rochester, New York, April 2009.  Visiting Professor: Ankle arthritis: Outcomes of ankle fusion versus ankle arthroplasty.

**Daniels TR:** Smith and Nephew, Fox Harb’r, NS, September 2008.  Keynote Speaker: Update in trauma treatment of interesting fractures: Lower limb fractures - (1) Hindfoot fracture cases (Talus and calcaneus), (2) Complications: My worst cases.

**Daniels TR:** University of Rochester School of Medicine, Rochester, New York, September 2008.  TAR: The Toronto experience [Agility to STAR to Hintegra and Mobility] – Why mobile-bearing is so great.

**Daniels TR:** University of Manitoba, 48th Annual Manitoba Orthopaedic Symposium, ORTHO 2008, Winnipeg, MB, October 2008.  Keynote Speaker: (1) Update on surgical management of end-stage ankle arthritis, (2) Update on surgical management of forefoot deformities.


**McKee MD:** American Academy of Orthopaedic Surgeons/Orthopaedic Trauma Association (AAOS/OTA), Extremity War Injury Symposium IV, Washington, DC, January 2009.  Participant in breakout groups.

**McKee MD:** Saudi Orthopaedic Association, Second Annual Meeting, Jeddah, Saudi Arabia, January 2009.  (1) Fractures of the clavicle, (2) Total elbow arthroplasty (TEA) for fractures of the distal humerus, (3) Bone morphogenetic proteins (BMPs) in trauma, (4) Adult sequelae of paediatric elbow trauma.

**McKee MD:** Orthopaedic Trauma Association, Boston, Massachusetts, April 2009.  Orthopaedic Trauma Fellows Course 2009: Prospective research: Why and How?

**McKee MD:** San Francisco General Hospital, Department of Orthopaedics, 4th Annual San Francisco Orthopaedic Trauma Course, San Francisco, California, April 2009.  (1) Clavicle fractures, (2) Bone morphogenetic protein (BMP) and proximal tibial fractures, (3) Case discussions - Upper extremity, (4) Distal radial plating lab.

**McKee MD:** Landstuhl Regional Medical Center, Grand Rounds, Landstuhl Germany, September 2008.  Clavicle fractures.

**McKee MD:** Orthopaedic Trauma Association and the United States Armed Forces, Landstuhl, Germany, September 2008.  Landstuhl visiting scholar programme.


**Schemitsch EH:** Orthopaedic Research Society/Orthopaedic Trauma Association, Las Vegas, Nevada, February 2009.  (1) Co-organizer of joint workshop: Bone morphogenetic proteins (BMPs) current evidence and future solutions, (2) Role of BMPs: Nonunions should they be standard of care.

Schemitsch EH: University of California San Francisco, Orthopaedic Trauma Course, San Francisco, California, April 2009.  (1) Supracondylar humerus fractures, (2) Workshops: (a) Proximal humerus fracture plating, (b) Proximal tibia plating with bone morphogenetic proteins (BMP-7), (c) Tibia fracture nailing with blocking screws, (d) Indications for advanced radiographic studies, (3) Selecting an osteobiologic metaphysis, (4) Wound irrigation: Optimal pressure and solution.


Schemitsch EH: KLEOS, Toronto, ON, June 2009.  (1) Live surgery - Birmingham mid-head resection [BMHR], (2) Comparison of mechanics between the Birmingham hip resurfacing [BHR] and BMHR: What is the evidence?


Schemitsch EH: Australian Orthopaedic Association, Trauma and Spine Injury, Summer Meeting, Melbourne, Australia, August 2008.  Guest Speaker: (1) Workshop intramedullary nailing, (2) Periprosthetic fractures around the hip, (3) Intervventional management of fragility fractures.

Schemitsch EH: Greek Orthopaedic Association, Athens, Greece, August 2008. Guest Speaker: (1) Basic principles in the treatment of tibia fractures, (2) Overview of bone substitutes.

Schemitsch EH: John Hunter Hospital, Grand Rounds, New Castle, Australia, August 2008.  (1) Current concepts in the management of open fractures.


Schemitsch EH: Canadian Orthopaedic Association, Clinical Research Course, 2nd Principles, Toronto, ON, November 2008.  (1) Course Chair, (2) Session moderator, (3) Practical breakout sessions, (4) Study protocols: The bare bones, (5) Writing your paper for publication: Do’s and don’ts, (6) Lessons learned from the OP-1 randomized trial.

Schemitsch EH: Osteosynthesis and Trauma Care Foundation, Practical Solutions for Difficult Fractures of the Elbow, Foot and Ankle, Toronto, ON, November 2008.  (1) Course co-Chair, (2) Moderator, (3) Lab demonstrator, (4) Case discussions, (5) Comminuted distal humerus fracture.


Waddell JP: International College of Surgeons, XXXVI Biennial World Congress, Vienna, Austria, December 2008. (1) Classification and primary measures [trauma-open fractures I], (2) Infection after open fractures [trauma-open fractures II].


Whelan DB: University of Minnesota and TRIA Orthopedic Center, Bloomington, Minnesota, June 2009. Evidence-based medicine for posterior lateral corner repair versus reconstruction.


RESEARCH AND INVESTIGATIONS

Senior Investigator’s Name Appears in Italics

A prospective randomized controlled pilot clinical study to evaluate the safety and efficacy of GEM OS2 injectable B-TCP/Collagen Matrix Plus rhPDGF-BB. Ahn H, Montanera W: Biomimetics. ($140,000 2007 - 2008.)

A prospective randomized trial investigating the effect of a novel reamer irrigator aspirator on the incidence of fat embolism and respiratory function during intramedullary nailing of femoral shaft fractures. Schemitsch EH, McKee MD: Orthopaedic Trauma Association. ($49,000 2006 - 2008.)


A randomized trial comparing a novel reamer irrigator aspirator to standard reaming for treatment of femoral shaft fractures. Schemitsch EH, McKee MD: Orthopaedic Trauma Association. ($65,000 2006 - 2008.)

A randomized trial of cannulated screws versus sliding hip screws for femoral neck fractures. FAITH Investigators [Bhandari M, Schemitsch EH [Co-Investigator, Steering Committee Member]: National Institutes of Health (NIH). $1,372,763 2008 - 2010.)

A randomized trial of cannulated screws versus sliding hip screws for femoral neck fractures. FAITH Investigators [Bhandari M, Schemitsch EH [Co-Investigator, Steering Committee Member]: Canadian Institutes of Health Research. ($1,260,267 2008 - 2010.)

A randomized trial of fluid lavage in open wounds. FLOW Investigators [Bhandari M, Petrisor B, Schemitsch EH [Co-PI, Steering Committee Member]: McMaster University, Department of Surgery. ($12,630 2008 - 2010.)

A randomized trial of fluid lavage in open wounds. FLOW Investigators [Bhandari M, Petrisor B, Schemitsch EH [Co-PI, Steering Committee Member]: Canadian Institutes of Health Research. ($1,748,487 2009 - 2013.)

A randomized trial of fluid lavage in open wounds. FLOW Investigators [Bhandari M [PI], Petrisor B, Schemitsch EH [Co-PI and Steering Committee]: Osteosynthesis and Trauma Care Foundation. ($50,000 2008 - 2010.)
A randomized trial of fluid lavage in open wounds. *FLOW Investigators [Bhandari M, Petrisor B, Schemitsch EH (Co-Investigator, Steering Committee-United States Department of Defence)]*: Orthopaedic Trauma Research Program. ($593,924 2008 - 2010.)

A randomized trial of fluid lavage in the treatment of open wounds. *FLOW Investigators [Bhandari M [PI], Petrisor B, Schemitsch EH (Co-PI and Steering Committee)]:* Orthopaedic Trauma Association. ($48,000 2006 - 2008.)

A randomized trial of hemiarthroplasty versus total hip arthroplasty for femoral neck fractures. *HEALTH Investigators [Bhandari M, Schemitsch EH (co-Investigator, Steering Committee Member)]: National Institutes of Health (NIH).* ($540,708 2008 - 2012.)

A randomized trial of hemiarthroplasty versus total hip arthroplasty for femoral neck fractures. *HEALTH Investigators [Bhandari M, Schemitsch EH (Co-Investigator, Steering Committee Member)]: Canadian Institutes of Health Research.* ($139,423 2008 - 2010.)

A randomized trial of non-operative versus operative treatment of acromioclavicular joint injuries. *McKee MD, Schemitsch EH, Canadian Orthopaedic Trauma Society: Osteosynthesis and Trauma Care Foundation.* ($50,000 2007 - 2009.)

A randomized trial of non-operative versus operative treatment of acromioclavicular joint injuries. *McKee MD, Schemitsch EH, Canadian Orthopaedic Trauma Society: Orthopaedic Trauma Association.* ($40,000 2007 - 2009.)

A randomized trial of total hip arthroplasty versus hemi arthroplasty for femoral neck fractures. *Health Investigators [Bhandari M, Schemitsch EH (Co-Investigator, Steering Committee Member)]: Canadian Institutes of Health Research.* ($139,423 2008 - 2010.)


Data collection and analysis from the Ontario Osteoporosis Strategy Post-fracture Osteoporosis Coordinator Program in Ontario fracture clinics. *Bogoch ER, Beaton DE: Province of Ontario Ministry of Health and Long-Term Care.* ($325,000 2008 - 2009.)

Development of a fellowship in surgical navigation. *Schemitsch EH: Stryker.* ($50,000 2006 - 2008.)


Effect of mesenchymal stem cell-based gene transfer of VEGF and eNOS on healing of a segmental bone defect. *Nauth A, Li R, Schemitsch EH: Orthopaedic Trauma Association.* ($10,000 2008 - 2009.)

Effect of multiple and delayed administrations of cell-based vascular endothelial growth factor (VEGF) gene therapy administrations on a segmental bone defect. *Qamirani E, Li R, Schemitsch EH: Osteosynthesis and Trauma Care Foundation.* ($10,000 2008 - 2010.)


Gait analysis of total ankle replacement patients. *Daniels TR: Interga Life Sciences.* ($60,000 2008.)

Gait analysis of total ankle replacement patients. *Daniels TR: Interga Life Sciences.* ($60,000 2009.)

GEM-OS1 randomized clinical trial. *Daniels TR: BioMimetics.* ($100,000 2008 - 2009.)

Implementation and evaluation of collaborations between Sunnybrook Health Sciences Centre, AHSCs, Critical and the LHIN in spinal care: A demonstration study to enhance acute spinal triage and patient care. *Ahn H, Ginsberg H, Yee A, Fehlings M: Ministry of Health Innovation Fund.* ($60,000 2009 - 2011.)


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

Osteoporosis exemplary fracture care program. *Bogoch ER: Alliance for Better Bone Health (Procter and Gamble Pharmaceuticals Canada Inc.)* ($200,000 2008 - 2009.)


Regulation of VEGF expression during cell-based gene therapy for bone healing. Schemitsch EH, Li R: Osteosynthesis and Trauma Care Foundation. [$50,000 2008 - 2011.]


To brace or not to brace in stable thoracolumbar burst fractures: A pilot prospective randomized controlled trial. Wai E, Ahn H: Physicians’ Services Incorporated. [$25,000 2007 - 2008.]

**HONOURS RECEIVED**

**Daniels TR:** Resident Program Director for St. Michael’s Hospital. July 2008.

**Daniels TR:** Wyeth Award, Second Place awarded during Gallie Day to Syndie Singer in a competition for best non-bench research: Ankle arthroplasty and ankle arthrodesis - Prospective gait analysis compared to controls [Supervisor: Timothy R. Daniels]. May 2009.


**McKee MD:** Medal of Excellence from the Canadian Forces, Chief of Defence. September 2008.

**McKee MD:** United States Navy Corpsman Medal. September 2008.

**McKee MD:** Winquist Cup Award - Top teaching group, Orthopaedic Trauma Association (OTA) Residents Course 2009. October 2008.

**Schemitsch EH:** Best Scientific Paper: International Society for Fracture Repair (by SPRINT Investigators, including Schemitsch EH). July 2008.

**Schemitsch EH:** Gold Medal Award ($5000.00) to SPRINT Investigators from The Royal College of Physicians and Surgeons of Canada (RCPSC). January 2009.

**Schemitsch EH:** Iscas Olympus Best Paper Award from The International Society for Computer Aided Surgery. June 2009.

**Schemitsch EH:** The Edwin G. Bovill Award for Best Paper to SPRINT Investigators [including Bhandari M, Schemitsch EH, Tornetta P, Swiontkowski M, Sanders D, Guyatt G] at the Orthopaedic Trauma Association, Annual Meeting 2007. July 2008.

**Whelan DB:** William Horsey Postgraduate Teaching Award in recognition of time spent with residents/fellows, using unique educational approaches, stimulating curiosity in the field and for serving as a role model. June 2009.

**Schemitsch EH:** Trial to re-evaluate ultrasound in the treatment of tibial fractures. Trust Investigators [Guyatt G (PI), Bhandari M, Busse J, Sanders D, Schemtsch EH (Co-PI and Steering Committee)]: Canadian Institutes of Health Research/Smith and Nephew. ($2,025,469 2007 - 2010.)


**Use of a novel scaffold to accelerate fracture healing. Kuzyk P, Schemitsch EH, Davis J: Osteosynthesis and Trauma Care Foundation. [$10,000 2007 - 2009.]**

Division of Plastic Surgery

Dr. J.L. Mahoney  Professor [Division Head]
Dr. M.A. Musgrave  Assistant Professor

PUBLICATIONS


INVITED VISITS TO OTHER HOSPITALS/UNIVERSITIES


Mahoney JL: North American Center for Continuing Medical Education [NACCME], The Symposium on Advanced Wound Care and the Wound Healing Society, Spring Symposium, Dallas, Texas, April 2009. (1) Quality of life following pressure wound reconstruction, (2) The impact of diabetic foot wounds on patient health-related quality of life: Validation of the Cardiff wound impact schedule.


RESEARCH AND INVESTIGATIONS
Senior Investigator’s Name Appears in Italics

Are chest compressions safe for the patient with sternal plates? Investigation using human cadaveric model. 
Mahoney JL, McKay D: Association for Osteosynthesis (AO) Foundation. ($5,000 2006 - 2009.)


Innovation proposal: Chiropody rapid response service. Ray J, Sargeant R, Mahoney JL, Leiter L: Ministry of Health and Long-Term Care, Innovation Fund. ($63,000 2009 - 2010.)

Negative pressure wound therapy (NPWT) for the treatment of chronic pressure wounds. Mahoney JL, Goeree R, Teague L: Programs for Assessment of Technology in Health (PATH) Research Institute. ($250,000 2008 - 2009.)

Sternal closure stability using the sternal fixation system. Mahoney JL: Association for Osteosynthesis (AO) Research Fund, Stettbachstrasse 6, 8600 Dubendorf (Switzerland). ($35,000 2007 - 2008.)

**Divisions of Urology**

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

**PUBLICATIONS**


INVITED VISITS TO OTHER HOSPITALS/UNIVERSITIES


RESEARCH AND INVESTIGATIONS
Senior Investigator’s Name Appears in Italics

A randomized, double-blinded placebo-controlled trial of alfuzosin (Xatral) in the management of distal ureteral calculi. Pace KT, Honey RJ, Chisholm D, Laroche B: Investigator-initiated multi-centred randomized clinical trial, funded by Sanofi-Aventis. ($100,000 2007 - 2009.)

HONOURS RECEIVED

Pace KT: Urology Residents Clinical Teaching Award, University of Toronto. June 2009.
Division of Vascular Surgery

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

PUBLICATION


INVITED VISITS TO OTHER HOSPITALS/UNIVERSITIES


Cina C: Santa Sofia Hospital, Palermo, Italy, May 2009. Proctoring Dr. Silvio Licata in endovascular repair of aortic aneurysms.
Cina C: University of Catania, Catania, Italy, May 2009. 
(1) Traditional open surgery for thoracoabdominal aortic 
surgery: The Canadian experience, (2) Fenestrated 
branched stent grafting versus hybrid procedures for 
thoraco-abdominal aneurysms. The pro fenestrated 
branched stent grafting, (3) Aortic arch debranching, 
(4) Identifying the patient at risk and strategies to minimize 
the risk of paraplegia.

Cina C: University of Messina, Messina, Italy, May 2009. 
Magistral Lecture: Ischemia of the spinal cord during 
thoracoabdominal aortic aneurysm repair: Identification of 
surgery at risk and techniques for prevention.

Cina C: Casa di Cura Francesco Basile, Catania, Italy, 
September 2008. Endovascular repair of complex aortic 
surgery. Updates in vascular surgery.

Cina C: The Australia-New Zealand Vascular Society, 
(1) Fenestrated stent grafting versus hybrid procedures for 
thoraco-abdominal aneurysms, (2) Identifying the patient 
at risk and strategies to minimize the risk of paraplegia, 
(3) The use of the Anaconda system in the management of 
aneurysmal disease: The Canadian experience and answer 
your questions.

Cina C: The Italian Vascular and Endovascular Society, 
Padova, Italy, November 2008. Debranching of the thoracic 
aorta for endovascular repair of arch aneurysms.

Cina C: San Raffaele Hospital, 3rd Aortic Surgery 
Meeting, Milan, Italy, December 2008. (1) Workshop in 
endovascular thoracic surgery. How I do it?, (2) Fenestrated 
and branched endografts for the treatment of juxtarenal 
and thoraco-abdominal aortic aneurysms. How I do it, 
(3) Canadian experience with the Anaconda system for 
EVAR controversies and updates in vascular surgery.

Lossing AG: Society for Vascular Nursing, Denver, 
Colorado, April 2009. The gender factor in aortic 
aneurysms: Reviewing the evidence.

Tanner W: The Rocky Mountain Traumatological Society, 
Public health care – the Canadian version.
During 2008-2009 Sunnybrook experienced significant growth in its physical plant with the opening of an expanded Emergency Room facility and construction of four new floors on M Wing. The Department benefited from incremental wait time funding for hip and knee arthroplasty and the performance of surgical oncologic procedures. Strategic focusing continued to occur and the Department remained well aligned with the Hospitals’ areas of emphasis.

NEW STAFF
Leo da Costa was appointed as a Surgeon-Investigator in the Division of Neurosurgery with a special interest in vascular neurosurgery. Todd Mainprize was appointed as a Surgeon-Investigator in the Division of Neurosurgery with a special interest in neuro oncology. Diane Nam was appointed as a Surgeon-Scientist in the Division of Orthopaedic Surgery. Dr. Nam’s clinical interest is in the upper extremity and she will study the immunology of fracture healing in the laboratory. Giuseppe Papia was appointed as a Surgeon-Teacher in the Division of Cardiac and Vascular Surgery and cross-appointed in the Department of Critical Care Medicine with a special interest in patient safety and percutaneous vascular surgical procedures.

Fuad Moussa was appointed as a Surgeon-Teacher in the Division of Cardiac and Vascular Surgery with a special interest in off-pump and minimally invasive coronary arterial procedures.

APPOINTMENTS AND PROMOTIONS
Markku Nousiainen was promoted to Assistant Professor upon completion of his MEd degree at OISE. Gideon Cohen was promoted to Associate Professor for his contributions to the surgical treatment of atrial fibrillation and cardiac valvular surgery. Frances Wright was promoted to Associate Professor in recognition of her contributions to knowledge translation in surgical oncology.

Andy Smith was appointed to succeed Zane Cohen as Chair of the University Division of General Surgery. George Christakis was appointed Co-Ordinator of Undergraduate Education. Sandro Rizoli was appointed Chair of the Blood Transfusion and Tissue Bank Committee.

EDUCATIONAL ACTIVITY AND AWARDS
David Stephen presented at the 10th Annual Chicago Trauma Symposium. Andy Smith was the Chair and Natalie Coburn, Darlene Fenech, Claire Holloway, Calvin Law,
May Lynn Quan and Frances Wright presented at the Update in Surgical Oncology held in October. The staff of the Holland Centre held a successful symposium, also in October, on optimizing functional outcome following total joint replacement focusing on total knee arthroplasty. Robin Richards co-Chaired and Terry Axelrod, Stewart Wright, Richard Holtby, Paul Binhammer and Diane Nam presented at the 25th Annual Upper Extremity Update held in April. Fred Brenneman, Claire Holloway, Calvin Law, May Lynn Quan, Sandro Rizoli, Ted Ross, Andy Smith and Frances Wright presented at the 49th Annual Update in General Surgery held in April. Albert Yee, Cari Whyne, Hamilton Hall and Joel Finkelstein presented at the Inaugural University of Toronto SpineFEST Visiting Professorship.

Markku Nousiainen received a Canadian Orthopaedic Research Legacy award to study training femoral neck insertions skills to surgical trainees comparing computer assisted surgery to conventional fluoroscopic technique. Veronica Wadey received Dean’s Funding for her educational research and was appointed an Associate Scientist in the Sunnybrook Research Institute.

Rob Cartotto received the Arnis Frieberg Resident Teaching Award, an award decided by the closed ballot of the residents enrolled in the University of Toronto Postgraduate Training Program in Plastic Surgery. David Stephen received the Orthopaedic Chair’s Resident Teaching Award as voted by the orthopaedic trainees. Calvin Law received the Tovee Award for postgraduate teaching at Gallie Day. Paul Binhammer received the University of Toronto Surgical Skills Centre Distinguished Education Award for his outstanding educational contributions at the Centre. Peter Chu received a Peters-Boyd PBL Teaching Award and Calvin Law was nominated for a Peters-Boyd Academy Award. Richard Backstein (Plastic Surgery), Alexandra Mihailovic (General Surgery), Christopher Peskun (Orthopaedic Surgery) and Karen Wong (Plastic Surgery) received Harrison Awards for their teaching.

RESEARCH ACTIVITY AND AWARDS

Natalie Coburn received a Career Scientist Award from the Ministry of Health and Long Term Care. Claire Holloway and her colleagues received a CIHR operating grant for her breast cancer research. Paul Marks collaborated with colleagues in a strategic NSERC grant studying the restoration of joint function through subchondral delivery of therapeutics and also received a Canadian Arthritis Network Grant studying outcomes after microfracture repair of cartilage defects. Darlene Fenech, Andy Smith, Natalie Coburn, Calvin Law, May Lynn Quan, Frances Wright and Anna Gagliardi presented posters at the Society of Surgical Oncology meeting in March in Phoenix. Rob Cartotto, Shar Shahrokhi, Joel Fish, Manuel Gomez and colleagues delivered multiple presentations at the annual general meeting of the American Burn Association.

Hans Kreder, Homer Tien and Albert Yee received innovation funding from the Sunnybrook Alternative Funding Plan Association for health care delivery studies. Laurie Klotz, Vasu Venkateswaran, Robert Nam, Cari Whyne and Albert Yee continued their laboratory research studies. Robert Nam received the George-Armstrong Peters Prize for outstanding productivity during his initial period as an independent investigator at Gallie Day. Robert’s work was featured in the Annual Report of the National Cancer Institute of Canada.

OTHER AWARDS AND ACTIVITIES

Sandro Rizoli was appointed to the Anna Maria de Souza Chair of Trauma Research in recognition of his research contributions in the field. Barry McLellan, Robert Nam and Jeff Gollish participated in the Sunnybrook Schulich Advanced Leadership Program. Robin Richards delivered the RI Harris lecture “Orthopaedic Surgery – The Journey of a Lifetime, Lessons Learned Along the Way” at the Annual General Meeting of the Canadian Orthopaedic Association. Albert Yee was appointed as one of the inaugural co-Directors of the University of Toronto Spine Program, an integrated effort supported by the Divisions of Neurosurgery and Orthopaedic Surgery and the Department.

Fred Brenneman led a successful initiative to establish an Acute Care General Surgical Service. Andy Smith received funding from Sanofi-Aventis Canada for a project aimed at standardizing the management of colorectal cancer. Lesley Carr completed her term as President of the Medical-Dental Midwifery Staff Association. Sender Herschorn, Ted Ross and Mike Schwartz were recognized for their 30 years of service to Sunnybrook. Sandro Rizoli and Robert Maggisano received Tile Awards for their outstanding service to the Department. Marvin Tile was named a member of the Order of Canada for his contributions worldwide to the treatment of pelvic and acetabular trauma.

RETIRED AND SABBATICALS

Anna Gagliardi accepted a position at the Toronto General Research Institute and May Lynn Quan gave notice that she would be accepting a position at the University of Calgary.

CONCLUSION

As the year concluded a Search Committee was being formed for the Goldman Chair in Cardiac Surgery. Ongoing efforts were underway to staff the Ross Tilley Burn Unit. The Department looked forward to working with the Institution in implementing the Strategic Plan recognizing the need to focus its activity while performing “heavy lifting” for patients in the Province requiring specialized surgical procedures. The Department remains thankful for the opportunity it has to play a leadership role in our Institution, our University Department, our Faculty, the Toronto Central Local Health Integrated Network, our surrounding Local Health Integrated Networks and the Province.
Division of Cardiac and Vascular Surgery

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

PUBLICATIONS


INVITED VISITS TO OTHER HOSPITALS/UNIVERSITIES


Goldman BS: The Royal Canadian Institute, 160th Anniversary Dinner, Toronto, ON, April 2009. Healing more than Hearts: Science that heals.

Goldman BS: Medtronic of Canada Ltd., Toronto, ON, July 2008. Reflection of cardiac surgery and the medical device industry.


Goldman BS: Canadian Cardiovascular Society, Toronto, ON, October 2008. Looking back, Looking forward: The view from now.

CABG off or on pump revascularization study (CORONARY). Lamy A, Yusuf S, Taggart D, Murkin J, Fremes SE. Canadian Institutes of Health Research. ($6,580,411 2007 - 2014.)


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.)


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. Wang XL, Fremes SE. Schering-Plough Research Institute, a Division of Schering Corporation. ($80,000 2009 - 2011.)


**HONOURS RECEIVED**

Division of General Surgery

Dr. F.D. Brenneman Associate Professor
Dr. P. Chu Associate Professor
Dr. N. Coburn Associate Professor
Dr. D.S. Fenech Associate Professor
Dr. A.R. Gagliardi Associate Professor
Dr. S.S. Hanna Associate Professor
Dr. C.M.B. Holloway Associate Professor
Dr. C.H.L. Law Associate Professor
Dr. M.L. Quan Associate Professor
Dr. S. Rizoli Associate Professor
Dr. T.M. Ross Associate Professor
Dr. A.J. Smith Associate Professor (Division Head)
Dr. H.C. Tien Assistant Professor
Dr. L. Tremblay Assistant Professor
Dr. F. Wright Associate Professor

PUBLICATIONS


INVITED VISITS TO OTHER HOSPITALS/UNIVERSITIES


Brenneman FD: Grand River Hospital, Tri-City Emergency Medicine Conference, Kitchener, ON, March 2009. Interesting trauma cases.


Brenneman FD: Grey Bruce Regional Hospital, Owen Sound, ON, November 2008. OR teaching - Advanced laparoscopic ventral hernia repair techniques.


Holloway CMB: Cancer Care Ontario Surgical Oncology Network, Toronto, ON, October 2008. Difficult questions in the management of breast disease.


Law CHL: William Osler Health Centre Oncology Group, Brampton, ON, February 2009. (1) Advances in the multidisciplinary treatment of hepatic metastases from colorectal cancer, (2) Multidisciplinary management of colorectal liver mets: Old rules, new technologies and uncharted territory.


Law CHL: Hepatobiliary Surgery Consultants, Advisor Board Meeting, Toronto, ON, November 2008. Where are we headed in the surgical management of hepatic metastatic colorectal cancer?

Law CHL: Central Local Health Integration Network, Southlake Oncology Rounds, Newmarket, ON, December 2008. The modern management of hepatic metastatic colorectal cancer.


Quan ML: Cancer Care Ontario, Toronto, ON, June 2009. Quality of sentinel node biopsy in Ontario: Research update.

Quan ML: University of Calgary, CityWide General Surgery Rounds, Calgary, AB, September 2008. Quality indicators in surgery: Academic exercise or tool for improvement?


Tien HC: Canadian Forces Health Services, Montreal, PQ, December 2008. The epidemiology of combat injuries.


Wright F: McMaster University, Ontario Melanoma Update, Mississauga, ON, April 2009. Pre-operative staging and post operative surveillance for melanoma patients.

RESEARCH AND INVESTIGATIONS

Senior Investigator's Name Appears in Italic


Bridging the information gap between patients and physicians for the treatment of colorectal cancer. Kennedy E, Gagliardi AR, Urbach DR: Colon Cancer Canada. ($45,000 2008 - 2010.)

Bridging the information gap between patients and physicians for the treatment of colorectal cancer. Kennedy E, Gagliardi AR, Urbach D: Canadian Institutes of Health Research. ($99,124 2009 - 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.)


Crisis in the general surgery workforce: Identifying barriers to career satisfaction and opportunities to manage attrition among resident and practicing general surgeons. Ahmed N, Gagliardi AR, Pandya A, Teodoro L: Canadian Association of General Surgeons. ($10,000 2008 - 2009.)


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, implementing and evaluating self-audit as a knowledge translation strategy for practice-based learning and practice guideline implementation. Gagliardi AR, Finelli A, Brouwers MC, Marlow BA, Campbell CM, Silver IL: Canadian Institutes of Health Information. ($49,223 2009 - 2010.)


Establishing stakeholder priorities for research on quality improvement planning and implementation. Gagliardi AR, Shojaei K, Straus SE, Baker GR, Silver IL: Canadian Institutes of Health Research. ($15,000 2009 - 2010.)


Exploring mentorship as a strategy to build capacity for knowledge translation research and practice. Gagliardi AR, Bell M, Levinson W, Straus SE, Leslie K, Morrison L, Tourangeau A, Rotstein O, Silver I: Canadian Institutes of Health Information. ($83,765 2009 - 2010.)

Exploring the cancer-related information needs of general surgeons. Gagliardi A, Smith AJ, Wright FC: University of Toronto, Faculty of Medicine, Grant Miller Cancer Research Grant. ($20,000 2006 - 2011.)

Factors influencing lymph node staging practice in colorectal cancer. Gagliardi AR, Wright FC, Smith AJ: University of Toronto, Faculty of Medicine, Dean’s Fund New Staff Grant. ($9,797 2006 - 2009.)


How does collegial interaction address the oncology information needs of community-based general surgeons? Gagliardi A, Wright FC, Smith AJ: University of Toronto, Grant Miller Cancer Research Grant. ($20,000 2006 - 2009.)


Mentoring for continuous professional development of surgical skills: Qualitative study to establish performance measures. Gagliardi G, Wright F: University of Toronto Continuing Medical Education and Development Grant. ($3,937 2007 - 2008.)

Multidisciplinary Cancer Conferences: Exploring obstacles and facilitator to their establishment and function. Wright FC, Look Hong N, Gagliardi AR, Bronskill S, Paszat LP: Colon Cancer Canada. ($5,000 2006 - 2008.)

Population-based assessment of lymphadenectomy during radical cystectomy for bladder cancer in Ontario. Sharir S, Law CHL [Senior Mentor for Project]: University of Toronto, Faculty of Medicine, Dean’s Fund. ($10,000 2006 - 2011.)


Quality of breast cancer sentinel lymph node biopsy practice in Ontario. Quan ML, Gagliardi A, Wright F, McCready D, Urbach D: Canadian Breast Cancer Foundation, Ontario Chapter. ($350,000 2007 - 2009.)


Surgical Care of Gastric Cancer Patients in Ontario: A Population-based study. Coburn NG, Law CHL, Swallow CJ, Rabeneck L: University of Toronto, Connaught Grant Funds. ($23,000 2007 - 2008.)


The implementation of sentinel lymph node biopsy for breast cancer in rural Ontario: A question of quality and cost. Wells B, Quan ML [supervisor], Urbach D: National Cancer Institute of Canada, Clinical Research Personnel Award. ($41,000 2008 - 2009.)


The processes of care and outcomes in colorectal cancer in the United States and Canada - A population-based study. Law CHL, Coburn NG, Tan J: Colon Cancer Canada. ($45,000 2008 - 2010.)

The quality of sentinel node biopsy for breast cancer in low volume Ontario hospitals. Wells B, Quan ML [supervisor]: Canadian Breast Cancer Foundation. ($71,000 2008 - 2009.)


HONOURS RECEIVED

Chu P: Sunnybrook Hospital Peters-Boyd Academy Teaching Award. May 2009.


Chu P: Tyndale University and Seminary Leadership Award. May 2009.


Law CHL: Bruce Tovee Award, Postgraduate Education, Department of Surgery, University of Toronto. May 2009.

Rizoli S: Marvin Tile Award from Sunnybrook Health Sciences Centre, Department of Surgery. December 2008.

Tien HC: Centre for Health Services Sciences (CHSS) Safety Scholar Award. May 2009.


Wright F: Recipient of Ministry of Health Funding for Multidisciplinary Cancer Conference Coordinators for the Province for ($300,000/year) and a one-time funding of MCCs in the province ($185,000). January 2009.
Division of Neurosurgery

Dr. L. da Costa  Assistant Professor
Dr. M. Fazl  Associate 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 TO OTHER HOSPITALS/UNIVERSITIES

**Fazl M:** Peterborough Country Medical Society, Peterborough, ON, May 2009. Indications for surgery for low back pain.

**Houlden DA:** Charles E. Henry Society, April 2009. Instructional Course: Somatosensory evoked potential (SSEP), electroencephalography (EEG) and transcranial doppler (TCD) in carotid endarterectomy.

**Houlden DA:** Canadian Neurological Sciences Federation, Halifax, NS, June 2009. Instructional Course: Intraoperative electrophysiology.

**Houlden DA:** Serbian Neurological Society, 1st Congress of Serbian Neurosurgeons, Nis, Serbia, October 2008. Somatosensory evoked potential (SSEPs) in comatose patients with head injuries.


**Schwartz ML:** Serbian Neurosurgical Society, Nis, Serbia, October 2008. Radiosurgery for arteriovenous malformations.
Division of Orthopaedic Surgery

Dr. M.K. Akens  Lecturer
Dr. T.S. Axelrod  Professor
Dr. H.U. Cameron  Associate Professor
Dr. J.C. Cameron  Assistant Professor
Dr. G.R. Fernie  Professor
Dr. J.A. Finkelstein  Associate Professor
Dr. M.H. Ford  Assistant Professor
Dr. H. Hall  Professor
Dr. R.M. Holthy  Assistant Professor
Dr. H.J. Kreder  Professor (Division Head)
Dr. B.E. Maki  Professor
Dr. B.W. Malcolm  Assistant Professor
Dr. P.H. Marks  Associate Professor
Dr. J.J. Murnaghan  Associate Professor
Dr. D. Nam  Assistant Professor
Dr. M. Nousiainen  Assistant Professor
Dr. R.R. Richards  Professor
Dr. J. Schatzker  Professor

PUBLICATIONS


Axelrod TS: Cleveland Case Western Reserve, MetroHealth, Cleveland, Ohio, May 2009. Duncan Visiting Professor: (1) Scaphoid fractures and non-unions, (2) The evolution of distal radius fracture.


Cameron HU: British Orthopaedic Association, Orthopaedic Meeting, United Kingdom, September 2008. The oblong socket.


Fernie GR: Mayo Clinic, Rochester, Minnesota, May 2009. Scott Named Visiting Professor: What is needed to conduct a successful program in the application of technology to geriatrics?

Fernie GR: Glenrose Rehabilitation Hospital, 2nd Bi-Annual The Greying Nation Conference 2009: Keeping Ahead of the Wave, Edmonton, AB, June 2009. (1) Videoconference: Overview of iDAPT [Intelligent Design for Adaptation, Participation and Technology], (2) Solutions for everyday living.


Hall H: University of Saskatchewan, Saskatoon, SK, February 2009. The patient with pain disorder: What the surgeon needs to know.


Hall H: Bronson Hospital, Bronson Neurological Services, Kalamazoo, Michigan, May 2009. Keynote Presentation: What we know and where we go from here.


Hall H: CBI Health Group, Lethbridge, AB, June 2009. Seven minute back examination.


Kreder HJ: Association Internationale pour l’Osteosynthese Dynamique (AIOD), Canadian Joint Symposium, Whistler, BC, February 2009. (1) Controversies regarding the interface in total hip replacement: ceramic, metal, cross-linked polyethylene, (2) Emerging trends and controversies in hip and knee arthroplasty, (3) Moderator: Controversies in total hip fixation, (4) Panelist: [a] Controversial primary total hip arthroplasty topics, [b] Interactive surgeon case reviews on primary total hip replacement problems, (c) Interactive surgeon case reviews on primary total knee replacement problems, (d) Interactive surgeon case reviews on revision total knee replacement problems, (e) Periprosthetic acetabular fracture management, (f) Bilateral total knee replacement controversies, (g) Periprosthetic fractures around a total knee replacement, (h) Panelist: Interactive surgeon case reviews on revision total knee replacement problems, (i) Periprosthetic fractures around a total knee replacement.


Marks PH: Swiss Radiologic Society, Annual Meeting, Switzerland, June 2009. Quantitative magnetic resonance (MR) imaging evaluation of the cartilage thickness and subchondral bone area in patients with ACL-reconstruction 7 years after surgery.


Stephen DGS: American Association of Orthopaedic Surgeons (AAOS), Advanced Course - Fractures of the Pelvis and Acetabulum, Barcelona, Spain, June 2009. (1) Classification of pelvic fractures, (2) Open reduction internal fixation - sacroiliac (ORIF SI) joint fracture dislocations, (3) Reduction and fixation techniques AC/AW.


Stephen DGS: Association for Osteosynthesis (AO), Basic Principles and Techniques Course for Residents, Brunswick, New Jersey, September 2008. (1) What AO has to offer, (2) Tibial plateau fractures.


Stephen DGS: Synthes USA, Fall Annual Meeting, Trauma, Tuscon, Arizona, November 2008. (1) Surgeon clinical debates: (a) The fractured clavicle - To operate or not to operate: Conservative, (b) Femoral neck fractures - Best solution arthroplasty, (2) Group discussions.


Yee A: Spinal Cord Injury Solutions Network/Pre-Canadian Spine Society Annual Meeting of the Acute Practice Network-Pre-Hospital Care Committee [with Dr. M. Fehlings as Chair and Drs. H. Ahn and A. Yee as co-Chairs], Gatineau, PQ, March 2009. Pre-hospital care update in spinal cord injury: Update on results of a systematic review.


**RESEARCH AND INVESTIGATIONS**

*Senior Investigator’s Name Appears in Italics*

A biomechanical assessment of floor and overhead lifts using one or two caregivers for patient transfers. Fernie GR: Workplace Safety and Insurance Board. [$61,088 2007 - 2009.]

A novel delivery system for bone morphogenetic protein (BMP2) to enhance ACL graft integration. Richards R, Yee A, Roberston C: The Physicians’ Service Incorporated Foundation. [$80,000 2008 - 2009.]


Biomechanical implications of a novel cancer treatment in the spine for the Teachers’ Science and Technology Outreach Program [TSTOP]. Whyne C: Ministry of Research and Innovation [MRI], Ontario. [$9,270 2008 - 2009.]


Bone stability and tumor burden in mixed osteolytic/osteoblastic spinal metastases [funding declined]. Whyne CM, Yee A, Finkelstein JA: Canadian Breast Cancer Foundation. [$379,862 2008 - 2012.]

Bone stability and tumor burden in the metastatic spine: implications of variable disease patterns. Whyne CM, Yee AJ (co-Principal Applicants), Finkelstein JA (co-Investigator), Probyn L (Collaborator): Canadian Institutes of Health Research, Renewal Operating Grant [Primary Institutions: Cancer Research; Other Institutions: MSK Health and Arthritis]. [$379,862 2008 - 2012.]}

Centre for Research in Image-Guided Therapeutics. Hynynen K, Multiple Collaborators including Whyne CM: Canada Foundation for Innovation, Research Hospital Fund Large Scale Institutional Endeavours. [$14,337,919 2008 - 2011.]

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Clinical trial of novel technology to improve hand hygiene (year 1). Fernie GR: Ministry of Health and Long-Term Care, Health Research Grants. ($177,165 2008 - 2009.)

Cloud nine. Fernie GR: Ontario Research Commercialization Program (ORCP) - BioDiscovery Toronto. ($50,000 2008 - 2009.)

Control of balance reactions in the complex environments of daily life: Effects of age-related changes in visual processing and the development of novel approaches for fall prevention. Maki BE, McIlroy WE, Fernie GR, Pratt JW: Canadian Institutes of Health Research (CIHR). ($886,113 2004 - 2010.)


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.)

Intelligent multiple user mounted hand hygiene dispenser. Fernie GR: Ontario Research Commercialization Program (ORCP) - Technology Transfer Toronto. ($50,000 2008 - 2009.)
Laboratories and workspaces for scientists and graduate students engaged in the iDAPT research program at Toronto Rehabilitation Institute [tentatively approved pending final administrative approval]. Fernie GR, Boutillier C, Bradley D, Colangelo A, Cott C, Davis A, Maki BE, McIlroy WE, McKeever P, Naglie G: Canadian Foundation for Innovation [Research Hospital Fund]. $17,631,726 2004 - 2010.


Modeling thin bone structures of the human skeleton. Whyne C: Natural Sciences and Engineering Research Council (NSERC). ($165,000 2006 - 2011.)

New radiofrequency ablation device of soft tissue and malignant tumor ablation. Yee AJM, Whyne W, Gofeld M, Akens MK, Shah K, Godara N: Ontario Centres of Excellence [OCE] [OCE Funds $220,000; Baylis $335,000]. ($555,000 2009 - 2010.)


Pedicle screw insertion simulator study. Ginsberg H, Whyne C, Massicotte E, Martin A: St. Michael's Hospital, Trauma/Neurosurgery Program, Internal Multi-Disciplinary Small Grant Program. ($2,000 2008 - 2009.)


Predicting acetabular fracture prognosis through quantitative weight-bearing area damage evaluation. Lubovsky O, Whyne C, Kreder H, Beek M: Osteosynthesis and Trauma Care Foundation. ($10,000 2009.)


Rehabilitation Engineering Research Center on universal design and the built environment at Buffalo. Steinfeld E: National Institute on Disability and Rehabilitation Research [NIDRR]. ($5,538,000 2005 - 2009.)


Risk factors and indicators that predict the progression of osteoarthritis after knee injury. Marks PH, Hurtig M, White L, Weller I: Canadian Institutes of Health Research. ($300,000 2004 - 2009.)

Role of peripheral vision in the control of stepping and grasping reactions. Maki BE, King E: Toronto Western Research Institute/University Health Network/University of Toronto, Graduate Student Scholarship-Ontario Student Opportunity Trust Funds (OSOTF) Award, Vision Science Research Program. ($18,900 2007 - 2008.)

Role of spatial memory in the control of grasping reactions. Maki BE, Cheng K: Toronto Western Research Institute/University Health Network/University of Toronto, Graduate Student Scholarship-Ontario Student Opportunity Trust Funds (OSOTF) Award, Vision Science Research Program. ($18,900 2007 - 2008.)

Role of spatial memory in the control of grasping reactions. Maki BE, Cheng K: Toronto Western Research Institute/University Health Network/University of Toronto, Graduate Student Scholarship-Ontario Student Opportunity Trust Funds (OSOTF) Award, Vision Science Research Program. ($18,900 2008 - 2009.)

Safe activities following elective total hip replacement [SafeT]. Weller IM, Corey PN, Gignac MA, Gollish JD, Hawker GA, Kennedy DM, Kreder HJ, MacDonald SJ: Canadian Institutes of Health Research. ($930,000 2007 - 2012.)

Spinous process less invasive extendable fusion - a less invasive extendable device for posterior spinal fusion. Ginsberg H, Whyne CM, Singh D: Ministry of Research and Innovation [MRI], Ontario. ($10,000 2008.)


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, Boutilier C, Cameron J, Fernie GR, Naglie G: Canadian Institutes of Health Research (CIHR). ($265,155 2009 - 2012.)

Training femoral neck screw insertion skills to surgical trainees: Computer-assisted surgery versus conventional fluoroscopic technique. Nousiainen M, Kreder H. Canadian Orthopaedic Research, Legal Award for Research Study. ($20,000 2008 - 2009.)

Use of video games to improve processing of visual information needed for balance control: Development and pilot testing of a new approach to falls prevention. Maki BE, McKay S: Ontario Neurotrauma Foundation, Summer Internship Program. ($12,000 2008.)

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


Whyne C: Best Paper Award [with I Moss, K Woodhouse and A Yee], University of Toronto, Orthopaedic Research Day. January 2009.
Division of Plastic 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. J.S. Fish  Associate Professor
Dr. S. Shahrokhi  Lecturer

PUBLICATIONS


INVITED VISITS TO OTHER HOSPITALS/UNIVERSITIES


Antonyshyn O: Association for Osteosynthesis (AO) Challenges and Advances in the Management of Cranio-Maxillofacial Trauma and Reconstruction, Focus: Orthognathic Surgery, Quebec City, PQ, September 2008. (1) Alloplastic augmentation of the chin and face, (2) Orthognathic reconstruction of the post-traumatic patient.


Cartotto RC: American Burn Association, Annual Meeting, San Antonio, Texas, March 2009. (1) Postgraduate Course A: Urine output is not the end point of resuscitation, (2) Research Symposium: What’s new in mechanical ventilation of acute lung injury (ALI) and acute respiratory distress syndrome (ARDS) in burn patients?


Fish JS: Workplace Safety Insurance Board, CEO/President and Senior Team, Toronto, ON, February 2009. Electrical injury program for specialty care.

Fish JS: Canadian Standards Association and Electrical Safety Authority, Electrical Injury and Safety Meeting, Toronto, ON, May 2009. Delivered the keynote address.

Fish JS: International Society of Burn Injuries, Montreal, PQ, September 2008. (1) Change over time in survival among older adults with burn injury: A ten-year analysis of the National Burn Repository of the American Burn Association, (2) Effectiveness of a prevention program for electrical burn injuries due to the use of multi-meters, (3) Vimentin immunostaining: Is there a utility in burn depth determination?


Fish JS: Hydro One CEO, Toronto, ON, November 2008. Electrical injury program.

Defining psychological recovery following electrical injury and the longitudinal outcomes. Fish J, Atkins J: Electrical Injury Research Foundation. ($60,000 2007 - 2010.)


Finite element modeling of the human craniofacial skeleton. Fialkov J, Whyne C: Stryker advanced cranio-maxillofacial (ACMF) forum. ($60,000 2009 - 2011.)

Prospective study of imiquimod in the treatment of patients with positive margins following surgical excision of basal cell carcinoma and squamous cell carcinoma. Barnes EA, Assaad D, Antonyshyn O, Barnes EA, Fialkov J, Choo R, Breen D: 3M Pharmaceuticals. ($150,000 2006 - 2009.)
HONOURS RECEIVED

Binhammer P: Education Award, University of Toronto Surgical Skills Centre. May 2009.

Cartotto RC: 2009 Arnis Freiberg Faculty Excellence in Teaching Award, Division of Plastic Surgery, University of Toronto. March 2009.

Fialkov JA: Osteosynthesis and Trauma Care Foundation, Biomechanical Research Fellowship, Zuchwil, Switzerland. October 2008.
Division of Urology

Dr. L.K. Carr  Assistant Professor
Dr. S. Herschorn  Professor
Dr. L.H. Klotz  Professor [Division Head]
Dr. R.T. Kodama  Associate Professor
Dr. R.K. Nam  Associate Professor
Dr. V. Venkateswaran  Assistant Professor

PUBLICATIONS


**INVITED VISITS TO OTHER HOSPITALS/UNIVERSITIES**


**Herschorn S:** Korean Continence Society, Annual Meeting, Seoul, South Korea, May 2009. Guest Speaker: (1) Update on overactive bladder pharmacotherapy, (2) Update on management of male lower urinary tract symptoms (LUTS), (3) Update on surgical treatment of post-radical prostatectomy incontinence.

**Herschorn S:** University of British Columbia, Department of Urology, Vancouver, BC, May 2009. Visiting Professor: (1) Challenges in major urologic reconstruction, (2) Advances in therapy of male lower urinary tract symptoms (LUTS).

**Herschorn S:** Canadian Urological Association, Annual Meeting, Toronto, ON, June 2009. Moderator of educational forum on post-radical prostatectomy incontinence.

**Herschorn S:** Taichung Medical Symposium, Taichung City, Taiwan, June 2009. Prevalence and impact of overactive bladder/lower urinary tract symptoms (OAB/LUTS): From the global to Asian perspective.

**Herschorn S:** Tainan Chi-Mei Medical Centre, Tainan City, Taiwan, June 2009. Treatment outcomes for patients with overactive bladder (OAB).

**Herschorn S:** International Consultation on Urological Diseases (UCID) and Societe Internationale Urologie, 4th International Consultation on Urinary Incontinence, Paris, France, July 2008. Surgery for urinary incontinence in males.


**Herschorn S:** Midland Family Practitioners, Midland, ON, November 2008. Overactive bladder in men.

**Herschorn S:** Turkish Urological Association, Biennial Meeting, Antalya, Turkey, November 2008. (1) Female pelvic reconstructive surgery, (2) How to avoid sling complications, (3) What has changed in 10 years in stress incontinence?

**Klotz LH:** Swiss Association of Multi-Disciplinary Oncology (SAMO), Lucerne, Switzerland, January 2009. Guest Speaker: Micronutrients and prostate cancer prevention.

Klotz LH: Gifu University, Gifu, Japan, February 2009. Guest Speaker: Active surveillance for prostate cancer.

Klotz LH: Hiroshima University, Higashi, Hiroshima City, Japan, February 2009. Guest Speaker: Active surveillance for prostate cancer.


Klotz LH: Takamatsu University, Takamatsu, Kagawa, Japan, February 2009. Guest Speaker: Active surveillance for prostate cancer.


Kodama RT: Queen’s University, Kingston, ON, February 2009. (1) Quest examiner, (2) Lecture: Urinary reconstruction and lower urinary tract trauma.

Kodama RT: Canadian Academy of Urologic Surgeons, Toronto, ON, June 2009. President and Moderator: The undergraduate curriculum and our shortlists.


Nam RK: National Cancer Institute of Canada: Prostate Cancer Research Initiative Research Retreat, King City, ON, January 2009. Prostate cancer genetics.


Nam RK: American Society of Clinical Oncology, GenitoUrinary Cancer Symposium, Orlando, Florida, February 2009. Should I have a prostate biopsy, doc.


A phase III, randomized, double-blind, parallel group, placebo-controlled, multicenter study to assess the efficacy and safety of beta-3 agonist YM178 [25mg qd and 50mg qd] in subjects of overactive bladder. Herschorn S: Astellas Pharma. [$20,000 2009.]

A placebo-controlled randomized, 12-week, dose-ranging, double-blind study versus placebo using tolterodine as a study calibrator, to evaluate efficacy and safety of SSR240600C in women with overactive bladder including urge urinary incontinence. Herschorn S: Sanofi. [$15,000 2008 - 2009.]


Coral study (fosamax versus placebo in patients initiating therapy with LHRH analogues). Investigator-initiated [by Klotz L] multicentre trial, with funds provided to CURC by Abbott Laboratories Canada. Funds include per patient reimbursement ($500,000) and project management costs ($300,000). Klotz L: Canadian Urology Research Consortium (CURC). [$800,000 2005 - 2008.]


Dutasteride versus placebo in patients initiating intermittent androgen deprivation. Investigator-initiated [by Klotz L] multicentre trial, with funds provided to CURC by Glaxo Smith Kline US. Funds include per patient reimbursement ($500,000) and project management costs ($300,000). Klotz L: Canadian Urology Research Consortium (CURC). [$800,000 2006 - 2009.]
ETS gene translocations as biomarkers of prostate cancer. Seth A, Nam R: National Cancer Institute of Canada (NCIC). ($619,500 2008 - 2013.)

Impact of combination antioxidants on MRI markers of cell proliferation and hypoxia among men on active surveillance with early stage prostate cancer. Fleshner NE, Haider M, Venkateswaran V: Canadian Urological Association (CUA)/Abbott Grant Competition. ($25,000 2007 - 2008.)

Impact of combination antioxidants on MRI markers of cell proliferation and hypoxia among men on active surveillance with early stage prostate cancer. Fleshner NE, Haider M, Venkateswaran V: Prostate Cancer Research Foundation of Canada. ($60,000 2007 - 2008.)

Individual risk assessment for prostate cancer using risk factors, tumour markers and new biomarkers. Nam RK, Narod S: Canadian Institutes of Health Research. ($708,000 2006 - 2009.)


Phase 1 evaluation of the feasibility and safety of MRI guided transurethral ultrasound therapy for localized prostate cancer, Grant No. 019437. Klotz L, Chopra R, Bronskill M, Sugar L: National Cancer Institute of Canada. ($154,000 2008 - 2010.)

Randomized, double-blind, double-dummy, placebo-controlled, parallel group, multicentre trial to evaluate the efficacy and safety of fesoterodine in comparison to tolterodine ER in patients with overactive bladder. Herschorn S: Pfizer. ($15,000 2008 - 2009.)

SELECT [Selenium and Vitamin E Cancer Prevention] Trial of Prostate Cancer: A randomized trial. Funded at $170,000,000 over 10 years. Colman C, many co-investigators from the South Western Oncology Group including Klotz LH: National Institutes of Health. ($170,000 1999 - 2009.)

VECTOR: A randomized double-blind study to assess the safety and efficacy of solifenacin succinate (Vescare) in comparison to oxybutynin for overactive bladder patients. Herschorn S: Astellas Canada. ($15,000 2007 - 2008.)

Virtue male sling study: Prospective, non-randomized, multi-center global clinical trial. Herschorn S: Coloplast Corporation. ($15,000 2009.)

HONOURS RECEIVED


Kodama RT: Postgraduate Resident Teaching Award, Special Recognition by the University of Toronto, Department of Surgery, Division of Urology. June 2009.

Nam RK: Faculty Postgraduate Teaching Award-Surgical, Division of Urology, University of Toronto. June 2009

Nam RK: George Armstrong-Peters Research Award, Department of Surgery, University of Toronto. June 2009
The Surgical Department of the Toronto East General Hospital has 20 active surgeons including 3 urologists, 5 orthopedic surgeons, 5 general surgeons including 4 thoracic surgeons and 3 plastic surgeons, and one orthopedic surgeon on modified active staff.

OVERVIEW

Public access to newly collected provincial data in regards to infection rates, mortality rates, wait times and greater accountability for efficiency will continue to affect the perception of TEGH and influence our elective practices. Toronto East General Hospital has continued its focus on developing surgical oncology expertise. We have added a Surgical Oncologist, Dr. Hany Sawires, to join our General Surgery Division. Our Department has grown strategically this year in the development of the Thoracic Surgery Level 1 Initiative. Dr. John Dickie has joined our staff to grow our Thoracic Surgery Level 1 commitment. A recent joint venture with Barrie’s Royal Victoria Hospital is being developed to further develop a shared model of thoracic care similar to our arrangement with Sunnybrook Health Science Center. Our Division of Urology was highlighted in the CCO prostate surgical resection margin data as Best Practice. We continue to integrate the Safer Health Care Now initiatives and use the OR Checklist in all ORs and will be participating with the Rotman School of Management in developing a web based tool for implementation. The University of Toronto Bariatric Initiative will involve TEGH and Dr. Mary-Anne Aarts will be the outcome analysis lead for all Ontario. Increased teaching requests and excellence in teaching scores have been recognized again this year.

GENERAL SURGERY

Dr. Jamie Cyriac and Mary-Anne Aarts, our two fellowship trained MIS surgeons with Bariatric Surgical Training, are involved in the planning and implementation of the Bariatric Initiative. Dr. Rob Zeldin is focusing completely on thoracic surgery. Paul Bernick is the new Head of the Division of General Surgery and Medical Director of Surgical Education. TES scores for Drs. Zeldin, Cyriac, Bernick and MacKenzie are excellent. Dr. MacKenzie will continue to take call over the summer and plans to continue working in the Breast Time to Treat Clinic this coming year.

We undertook our first search in a strategy for developing new surgical recruits in line with University processes. Dr. Hany Sawires was our successful candidate and he will start in September 2009 with a special interest in Surgical Oncology. Drs. Jamie Cyriac and Paul Bernick have privileges at Women’s College Hospital (WCH) for endoscopy.

Dr. Cyriac will be doing ASCM II teaching this year for the medical students. Drs. Jamie Cyriac and Paul Bernick have privileges at Women’s College Hospital (WCH) for endoscopy.
THORACIC SURGERY

Dr. John Dickie has moved from Peterborough to join our Thoracic Surgeons in this Level 1 Center. He will also be a support for our pacemaker service. We plan to start our partnership with Royal Victoria Hospital in Barrie and the North Simcoe/Muskoka LHIN this year. With 3 fulltime and 1 part-time thoracic surgeons, we will provide thoracic surgical services to TEGH, Sunnybrook Health Sciences Centre, Odette Cancer Centre, North York General Hospital and Royal Victoria Hospital. We continue to work closely within the University Division of Thoracic Surgery to provide teaching and training to undergraduate and postgraduate trainees. We will take on our first Thoracic Fellow in January 2010.

UROLOGY

Peter Vlaovic became a Lecturer at the University of Toronto this year. Peter has also been teaching medical students at the ASCM II level. Dr. Bob MacMillan has retired and moved to British Columbia. We continue to fundraise actively for operating costs for the Da Vinci Robot. Our MIS capabilities have grown. Recent CCO best practice research has found that the quality of our prostate surgical resections have set the standard in provincial benchmarking. The Endourology Fellowship is in its 8th year. Tumour Boards have been arranged with the Radiation Oncologists at Sunnybrook and we are working to set up a multidisciplinary clinic at TEGH.

ORTHOPEDICS

Peter Weiler has been successful in implementing changes to our OR schedule to address patient flow and standardization for total joint replacement. Recently released University of Toronto Surgical Teaching Effectiveness Scores [TES] for Postgraduate teaching has applauded Drs. Mastrogiacomo and Kraemer as outstanding. TES scores for Fellowship teaching have made TEGH the highest scoring hospital in the University of Toronto, thanks to a strong orthopedic surgical division! Dr. Mastrogiacomo received a perfect score of 20.

Dr. Bill Kraemer is the Program Director for the Orthopaedic Residency Training Program, University of Toronto. Dr. Paul Wong is a member of the University Postgraduate Resident Committee.

PLASTIC SURGERY

We continue our search for a Division Head. Dr. Beber and Dr. Tate continue to be increasingly involved in the educational activity of the University Division and will be teaching our first resident in Plastic Surgery this July. We look forward to reaching the standards of teaching that our General Surgery and Orthopedic colleagues have developed here at TEGH. Dr. Beber participates in ASM teaching and is a member of the University Postgraduate Resident Committee. Dr. Tate was enrolled in the Advanced Health Leadership Program through the Rotman School of Management this Spring and is looking forward to using the new skills to manage change and support innovation in these challenging times within the Department.
Division of General Surgery

Dr. M.A. Aarts  Assistant Professor
Dr. P.E. Bernick  Assistant Professor (Division Head)
Dr. J. Cyriac  Lecturer
Dr. T. Gilas  Assistant Professor
Dr. R.L. Mackenzie  Assistant Professor
Dr. C. Simone  Lecturer
Dr. R. Zeldin  Assistant Professor

PUBLICATIONS


INVITED VISITS TO OTHER HOSPITALS/UNIVERSITIES

Simone C, Zeldin R: Royal Victoria Hospital, Annual Stakeholders Conference on Cancer Care, Barrie, ON, June 2009. Thoracic surgical partnership between TEGH and RVH/LHIN 12.

Division of Orthopaedic Surgery

Dr. M. Catte, Jr.  Lecturer
Dr. W. Kraemer  Assistant Professor
Dr. G. Maistrelli  Associate Professor
Dr. F. Mastrogioacomo  Lecturer
Dr. P. Weiler  Assistant Professor (Division Head)
Dr. P. Wong  Assistant Professor

Division of Plastic Surgery

Dr. B. Beber  Lecturer
Dr. L. Tate  Assistant Professor (Division Head)

Division of Urology

Dr. R. MacMillan  Assistant Professor
Dr. R. Singal  Lecturer (Division Head)
Dr. P. Vlaovic  Lecturer
Surgical Programs and Critical Care, one of the seven programs at University Health Network, was active clinically and academically in the 2008-2009 year. Surgeons faced challenges of meeting volumes and wait times, and at the same time faced budgetary constraints that reduced elective surgery. Provincial mandates to clear emergency departments impacted significantly in terms of in-patient bed pressures and particularly on staff who tried every day to do more with less. Nevertheless, the academic mandates of teaching and research remained foremost in our objectives. The completed planning process (GATES – Growing Academically, Technologically, Efficiently and Safely) was articulated, and the 11 objectives were phrased along the lines of the organizational purpose statement “We are a caring, creative and accountable academic hospital transforming healthcare for our patients, our community and the world.” UHN surgical teams adopted the safe surgery checklist, and applied it to each of the 25,000 operations performed. Our participation was an important factor in the checklist publication in The New England Journal of Medicine in January 2009, and was instrumental in beginning the dissemination of this tool across Canada. The Clinical Speciality Supply Chain contract in collaboration with the Ministry of Health and the Ministry of Finance in Ontario was officially signed and will act as a model for supply chain efficiency for other organizations.

The multi-purpose operating room (MPOR) was completed and at the end of the academic year was in the process of decommissioning in preparation for advanced EVAR and percutaneous cardiac procedures – significant advances in the care of patients with complex cardiovascular disease. At the same time, functional plans were being put into place for the adjacent guided therapeutics (GTX) operating room at the TGH site which will also be a fertile ground for advances in the combination of imaging and interventions in operating room settings.

Toni Zhong was recruited as a microvascular specialist in the area of plastic and reconstructive surgery, and Anand Ghanekar became the latest member of a strong
transplantation team. The Transplantation Program was strengthened significantly by its designation as an “institute” at the University of Toronto with strong medical and surgical leadership. Catherine O’Brien was recruited as a surgeon-scientist in the Division of General Surgery with a special interest in stem cell research, and Gelareh Zadeh was recruited to the Division of Neurosurgery with expertise in surgical oncology. Kazuhiro Yasufuku was recruited from Chiba, Japan as an outstanding new member of the Division of Thoracic Surgery with an interest in transplantation and innovative approaches to the diagnosis of intrathoracic malignancies.

Shaf Keshavjee continued as Chair of Thoracic Surgery, Tom Lindsay as Chair of Vascular Surgery and Dimitri Anastakis as Chair of Plastic Surgery at the University of Toronto. Richard Weisel completed his term as Chair of Cardiac Surgery with the appointment of Dr. Chris Calderone as the incoming Chair. Michael Fehlings was appointed as the first Director of a University of Toronto Neuroscience Program, and Nizar Mahomed was appointed as Division Head in Orthopedics following outstanding contributions by Rod Davey for the last 12 years.

In the academic year, Drs. Marc de Perrot and Raja Rampersaud were promoted to Associate Professor and Drs. Gail Darling, Sydney Radomski and Douglas Wooster were promoted to Full Professor.

The members of the Department of Surgery at UHN continued to be very active in both basic and clinical research. A comprehensive assessment of research output showed that 1,560 surgical services articles and reviews were published in the last four years, averaging 12.0 per investigator. Eighty papers appeared in journals with a JIF of greater than 10, with 187 manuscripts published in journals with JIF’s between 5 and 10. In virtually all surgical divisions, the proportion of cited papers was significantly higher than those of the Mayo Clinic, and overall 20% of papers were highly cited.

The Belinda Stronach Chair in Breast Cancer Reconstructive Surgery was announced and will be awarded eventually to the successful candidate of an international recruitment search process to be conducted soon.

The members of the department were active in teaching at all levels. In general, teaching scores at the fellowship, resident and clerkship levels were strong, and teaching awards were given as follows: Wightman-Berris awards were given to Gail Darling, Stephanie Brister and Eric Massicotte, and Allan Okrainec was the 2009 recipient of the Ross Fleming Surgical Educator Award.

Dr. Wayne Johnston was given a Lifetime Achievement Award by the Society of Vascular Surgery, and Dr. Richard Weisel was awarded the prestigious American Association for Thoracic Surgery Scientific Achievement Award. Dr. Shaf Keshavjee made significant contributions during the year with his ex-vivo perfusion techniques for lung transplantation, which drew significant attention internationally. Dr. Barry Rubin, in addition to his clinical and academic productivity, remained as President of the Academic Medical Organization, a significant contribution to academic life for University of Toronto surgeons.
Division of Cardiac Surgery

Dr. S.J. 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  
Associate Professor

Dr. H.E. Scully  
Professor

Dr. R.D. Weisel  
Professor

Dr. T.M. Yau  
Associate Professor

PUBLICATIONS


Farahmand P, Lai TY, Weisel RD, Fazel S, Yau T, Menasche P, Li RK: Skeletal myoblasts preserve remote matrix architecture and global function when implanted early or late after coronary ligation into infarcted or remote myocardium. Circulation: September 2008: 118[14Suppl]: pp S130-S137.


IN VITED VISITS TO OTHER HOSPITALS/UNIVERSITIES

Cusimano RJ: Peking University/Affiliated People’s Hospital, Beijing, China, January 2009. (1) Heart transplant - A surgeon’s guide, [2] Pacemaker implantation methods, (3) The role of the cardiac surgeon in cancer treatment, (4) The secrets of safe off-pump coronary artery bypass (OPCAB.)


Cusimano RJ: Medtronic of Canada, Cardiac Innovator’s Meeting, Toronto, ON, July 2008.


Li R-K: Fundação Cardiovascular São Francisco de Assis Verdade é Jesus, 3rd International Symposium of Cell Therapy, Curituba, Brazil, October 2008. Speaker: Mesenchymal stem cells after myocardial infarction.


Rao V: Medtronic Canada, XXth Peak Performance, Lake Louise, AB, February 2009. Twenty-five year experience with the Hancock II bioprosthesis.


Rao V: Canadian Institutes for Health Research, Young Investigator Forum, Ottawa, ON, May 2009. Innovations in mechanical circulatory support.


Rao V: University of Wisconsin, Division of Cardiothoracic Surgery, Madison, Wisconsin, September 2008. The operating room as a laboratory.


Weisel RD: American Heart Association, New Orleans, Louisiana, November 2008. Current status of cellular therapies for heart failure - is there significant progress being made?


An angiogenic progenitor cell niche in the uterus: Potential implications for cell therapy. Li RK: Canadian Institutes of Health Research. ($681,120 2008 - 2013.)

Autologous tissue-engineered grafts for congenital heart surgery. Li RK: Canadian Institutes of Health Research. ($647,655 2003 - 2008.)

Cardiac regeneration by cell transplantation. Weisel RD, Fazel S: Heart & Stroke Foundation. ($212,216 2006 - 2009.)

Cardiac regeneration: Improving the response to injury. Weisel RD, Fazel S: Heart & Stroke Foundation. ($231,726 2007 - 2010.)

Epidermal growth factor like-7 (EGFL-7), rapamycin and transplant vasculopathy. Rao V, Delgado D: Heart & Stroke Foundation of Canada. ($122,030 2008.)


Inflammation, infection, trauma and repair cluster - Canada Research Chair in Cardiac Regeneration. Li RK: Canadian Institutes of Health Research. ($1,400,000 2006 - 2014.)

Matrix modulation is required to restore cardiac function after cell therapy. Li RK: Heart & Stroke Foundation of Ontario. ($185,740 2007 - 2009.)


The interplay of recruited stem cells and the matrix after myocardial infarction: Shifting the balance toward repair. Li RK, Fazel S: Canadian Institutes of Health Research. ($738,073 2004 - 2009.)


**HONOURS RECEIVED**

**Brister SJ:** Wightman-Berris Academy Individual Teaching Award (Postgraduate Medicine). May 2009.

**David TE:** The William Glenn Award from the American Heart Association. November 2008.


**Weisel RD:** Guest Section Editor for Seminars in Thoracic and Cardiovascular Surgery. August 2008.

**Weisel RD:** Scientific Achievement Award of the American Association of Thoracic Surgeons. June 2009.
Division of General Surgery

Dr. M.S. Catrall  Professor
Dr. S.P. Cleary  Assistant Professor
Dr. J. Escallon  Associate Professor
Dr. S. Gallinger  Professor
Dr. A. Ghanekar  Lecturer
Dr. R.M. Gorczynski  Professor
Dr. D. Grant  Professor
Dr. P.D. Greig  Professor
Dr. E.D. Kennedy  Assistant Professor
Dr. W.L. Leong  Assistant Professor
Dr. D.R. McCready  Professor
Dr. I.D. McGilvray  Assistant Professor
Dr. C. Moulton  Assistant Professor
Dr. C.A. O’Brien  Assistant Professor
Dr. A. Okrainec  Assistant Professor
Dr. T.P. Penner  Lecturer

Dr. M. Reedijk  Assistant Professor
Dr. R.K. Reznick  Professor
Dr. L.E. Rotstein  Professor (Division Head)
Dr. B.R. Taylor  Professor
Dr. D.R. Urbach  Associate Professor
Dr. A.C. Wei  Assistant Professor
Dr. L. Wright  Assistant Professor

PUBLICATIONS


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**INVITED VISITS TO OTHER HOSPITALS/UNIVERSITIES**

**Catral MS:** Dalhousie University, Atlantic Transplant 2008, Halifax, NS, October 2008. State of the art of pancreas transplantation.

**Catral MS:** McMaster University, Department of Immunology, Hamilton, ON, November 2008. New insights into dendritic cell ontogeny.

**Cleary SP:** Canadian Association of General Surgeons, Canadian Surgical Forum, Halifax NS, September 2008. Laparoscopic cholecystectomy revisited.


**Gallinger S:** Queen’s Cancer Research Institute, Department of Oncology Lecture Series, Updated on HPB Surgical Oncology, Kingston, ON, November 2008. Colorectal liver metastases and pancreas cancer genetics.

**Ghanekar A:** University of Wisconsin Hospital and Clinics, Madison, Wisconsin, September 2008. Liver transplantation for hepatocellular carcinoma: The University of Toronto experience.

**Grant D:** Israel Transplant Society, Tel Aviv, Israel, January 2009. Live donor liver transplantation.

**Grant D:** British Gastroenterology Society, Glasgow, Scotland, March 2009. Intestine transplantation update.

**Grant D:** Canadian Transplantation Society, Banff, AB, March 2009. Live donor liver transplantation.

**Greig PD:** University of Calgary, Department of Surgery, Division of General Surgery, City Wide Rounds, Calgary, AB, January 2009. Invited Professor: Approach to the new liver tumor.

**Greig PD:** Harvard Medical School’s Academy Center for Teaching and Learning, Boston, Massachusetts, April 2009. [1] At the Shapiro Institute for Education and Research during the Fellows Seminar Series: Readiness of the student to take the reigns: A surgeon’s perspective, [2] During the Medical Education Grand Rounds: Learning through teaching: Reflections of a surgeon/teacher, [3] At Beth Israel Deconess Medical Centre during the Transplant Rounds: (a) Fellowship training following surgical residency: Caveat emptor, (b) Living donor liver transplantation.


**Kennedy ED:** Surgical Outcomes Club, Fourth Annual Scientific Sessions, San Francisco, California, September 2008. Shared decision making: A strategy to maintain warranted and resolve unwarranted practice variation.

**Kennedy ED:** Cancer Care Ontario, Colorectal Cancer Symposium, Toronto, ON, December 2008. Disease pathway management initiative.

**Kennedy ED:** Colorectal Cancer Association of Canada, Rectal Advisory Board Workshop, Montreal, PQ, December 2008. Raising the standards of care in rectal cancer.

**McCreary DR:** Roswell Park Cancer Institute, Buffalo, New York, May 2009. Visiting Professor: Breast conservation without irradiation: Legendary quest or defable reality?


**McGilvray ID:** Centre hospitalier de l’Université de Montréal (CHUM), Combined Transplant Rounds, l’Hôpital Saint-Luc, Montreal, PQ, January 2009. Living donor liver transplantation: The Toronto translational experience.

**McGilvray ID:** Dalhousie University, Halifax, NS, February 2009. Living donor liver transplantation at the University of Toronto: Transplantation and translation.

**McGilvray ID:** University of Alberta, Transplantation Rounds, Edmonton, Calgary, November 2008. Genomics of hepatitis C virus infection.

**Moulton C:** Loma Linda University Medical Center, 5th Annual Program Directors’ Retreat, Palm Springs, California, September 2008. Slowing down when you should: A new model of expert judgment.

**Moulton C:** Henry Ford Health System, Detroit, Michigan, November 2008. Perspectives in self-regulation: Slowing down when you should, a new model of expert judgment.

**Moulton C:** Kingston General Hospital, Medical Grand Rounds, Kingston, ON, November 2008. Liver metastases for colorectal cancer: Pushing the envelope.

**Moulton C:** Queen’s University, Cancer Research Institute, Update on Hepato-Pancreatic-Biliary Surgical Oncology, Kingston, ON, November 2008. Colorectal liver metastases and pancreas cancer genetics.


Okrainec A: Hospital San Vincente de Paul, University of Antioquia, Grand Rounds, Medellin, Colombia, August 2008. The use of simulation and telesimulation in surgical education.

Okrainec A: Nueva Granada University, Central Military Hospital, Grand Rounds, Bogota, Colombia, August 2008. Telesimulation in Colombia: How did we get here, where are we going?


Okrainec A: McGill University, Annual Minimally Invasive Surgery Day, Montreal, QC, November 2008. First year’s experience with the use of telesimulation for teaching surgical skills in the developing world.


Reznick RK: Pan American Robotics Symposium, Houston, Texas, February 2009. See one, simulate 100, do 100, train one.


Reznick RK: University of Massachusetts, Medical School, Worcester, Massachusetts, May 2009. H. Brownell Wheeler Lecturer: Transformative thinking or a surgeon educator gone mad?

Reznick RK: University of Rochester, Rochester, New York, May 2009. James A. deWeese Visiting Professor: 120 Years after Halsted: Are we ready to ditch the tried and true?

Reznick RK: Canadian Academy of Urological Surgeons, Annual Meeting, Toronto, ON, June 2009. Surgery as a career in 2009 - The challenges.

Reznick RK: Hong Kong Academy of Medicine, Hong Kong, June 2009. Surgical training: Turn it upside down?


Reznick RK: Hong Kong University and Chinese University of Hong Kong, Hong Kong, November 2008. Overseas advisor of accreditation team.

Reznick RK: University of Alberta, Department of Surgery, First Annual Retreat on Education and Professionalism, Grand Rounds Lecture, Edmonton, AB, November 2008. See one, practice 1,000, do one.


Taylor BR: Royal Jubilee Hospital, Victoria, BC, February 2009. Safe surgery saves lives Canada.


Taylor BR: Canadian Patient Safety Institute, Canada’s Forum on Patient Safety and Quality Improvement, Toronto, ON, April 2009. Hot topics session: Safe surgery saves lives.


Taylor BR: Association of Canadian Universities and Colleges, Department of Anesthesia, Annual Meeting, Vancouver, BC, June 2009. The surgical checklist - is it for real?

Taylor BR: Canadian Anesthesiologist’s Society, Annual Meeting, Patient Safety Symposium, Vancouver, BC, June 2009. Safe surgery checklist - but I’m already doing that!

Taylor BR: L’Hôpital Maisonneuve-Rosemont, Department of Surgery, Grand Rounds, Montreal, Quebec, June 2009. La liste de contrôle...pourquoi et comment?

Taylor BR: Memorial University, Grand Rounds, St. John’s, NL, June 2009. Is the surgical checklist making a difference?

Taylor BR: Ministry of Health and Long-Term Care, Toronto, ON, June 2009. Surgical safety checklist mandatory public reporting. Expert advice meeting. Background research and implementation experience.

Taylor BR: Operating Room Nurses Association of Canada (ORNAC), Annual Conference, St. John’s, NL, June 2009. The safe surgery checklist...supporting implementation.


Taylor BR: Canadian Patient Safety Institute, Board of Directors Meeting, Ottawa, ON, December 2008. The surgical checklist: Experience and results.


RESEARCH AND INVESTIGATIONS

Senior Investigator’s Name Appears in Italic


Altered immune function with aging. Gorczynski RM, Terzioglou E: *Turkish Science Foundation.* [$300,000 2006 - 2008.]


Biomarkers following liver transplantation. McGilvray I, Levy G: *Novartis Pharmaceuticals.* [$400,000 2006 - 2008.]


Cancer risk evaluation (CaRE) program. Zanke B, Gallinger S, Hudson T, Kustra R: *National Cancer Institute of Canada, Program Project.* [$300,000 2007 - 2010.]


CIHR Fellowship. Sandhu L, Urbach DR: *Canadian Institutes of Health Research.* [$40,000 2008 - 2010.]

CIHR team in interdisciplinary research on colorectal cancer. McLaughlin J, Gallinger S, and 25 others: *Canadian Institutes of Health Research.* [$68,000 2008.]


Combined surgical resection of intra-and-extra-hepatic metastases from colorectal cancer: Effect on patient outcomes and correlation with stem cell markers. Wei AC, Gallinger S, Moore M, Dick J: *Connaught New Staff Matching Grant, University of Toronto.* [$15,000 2008 - 2010.]


Development of an integrated surgical skills course supporting complex communication and procedural skill acquisition. Tabak D, Moulton C, MacRae H, LeBlanc V: *The Network of Excellence in Simulation for Clinical Teaching and Learning (NESC TL).* ($68,000 2008.]


Formation and evaluation of a rapid diagnostic clinic for breast cancer. McCready DR: Slaitgh and Gattuso Family Foundation. ($12,500,000 2008 - 2018.)


Identifying and characterizing colon cancer initiating cells. Dick J, Gallinger S: Canadian Institutes of Health Research, Fellowship Salary Support for 4 years. ($220,000 2005 - 2009.)


Improving breast cancer care with a rapid diagnostic clinic. Heisey R, Semple J, Cit T, Lord B, McCready D: Women’s College Hospital, Alternate Funding Plan, Innovation Funding Competition. ($30,000 2009.)

Improving the quality of magnetic resonance imaging [MRI] reporting for rectal cancer staging in Ontario. Kennedy E, Smith A, McLeod R: Care Services Improvement Partnership (CSIP), Innovation Grant. ($186,582 2009 - 2011.)


Mechanism(s) for immunoregulation induced in aging by interactions of lipopolysaccharide (LPS) and hemoglobin. Gorczynski R: CLP Research Institute. ($300,000 2005 - 2009.)

Molecular pathogenesis of hepatitis C virus infection. McGilvray I, Heathcote J: Canadian Institutes of Health Research. ($100,000 2009 - 2010.)

Non-alcoholic fatty liver disease: Role of fatty acid composition and gene expression. Allard J, McGilvray I, Guindi M, Therapondos G: Canadian Institutes of Health Research. ($354,783 2008 - 2011.)


Ontario laparoscopy telesimulation initiative. Okrainec A: Ministry of Health and Long Term Care, Innovation Fund. ($185,674 2009 - 2011.)

Ontogeny of tolerogenic tumor dendritic cells. Cattral M, Diao J: Canadian Institutes of Health Research. ($100,000 2009.)

Pancreatic cancer linkage consortium. Petersen GM, Gallinger S, and 27 others: National Institutes of Health. ($7,000,000 2002 - 2008.)


Portal-venous hemodynamics after extended hepatectomies: Implication for postoperative morbidity/mortality and disturbance in intestinal barrier function. [PortaPressTor].

Moulton C, Guba M, Gallinger S: Colon Cancer Canada Grant. (31,700 2008 - 2009.)

Positive emission tomography in colorectal adenocarcinoma metastases (PET CAM) [$1200/case]. Gallinger S, Moulton CA: Ministry of Health and Long Term Care, Ontario Clinical Oncology Group. ($180,000 2005 - 2010.)


Randomized clinical trials for breast cancer. McCready DR [PMH Site Principal Investigator]: National Adjuvant Breast and Bowel Project (NSABP). (47,700 2008.)

Role and regulation of cancer stem cells in hepatocellular carcinoma (HCC): Implications for liver transplantation. Ghanekar A: Multi-Organ Transplant Program Academic Enrichment Fund. ($100,000 2009 - 2011.)


Role of immediate DC precursors in allograft rejection and tolerance. Cattral MS: Multiorgan Transplantation Academic Enrichment Fund Competition. ($100,000 2008 - 2010.)

Role of immediate dendritic cell precursors in allograft rejection and tolerance. Cattral MS: Heart & Stroke Foundation. (230,082 2008 - 2011.)

Role of immediate dendritic cell precursors in immunity and tolerance. Cattral MS: Canadian Institutes of Health Research/Astellas. ($850,000 2005 - 2010.)

Slowing down when you should: A new model of expert surgical judgment. Moulton C, Regehr G, MacRae H: Physicians' Services Incorporated. (41,000 2007 - 2009.)

Social, prognostic and therapeutic factors associated with breast cancer survival in Canada and the US: Health care access and effectiveness in diverse urban and rural areas, 1985-2010. Gorey KM, McCready DR, Holowaty E: Canadian Institutes of Health Research. (374,000 2004 - 2009.)


The association of cigarette smoking and genetic polymorphisms in carcinogen metabolizing enzymes with pancreatic cancer risk. Cleary SP, Grant Miller Research Grant: University of Toronto. ($20,000 2008.)

The impact of positron emission tomography (PET) imaging prior to liver resection for colorectal adenocarcinoma metastases (CAM) - PETCAM: A prospective multicenter randomized clinical trial. Moulton C, Gallinger S: Ministry of Health Ontario. ($980,000 2005 - 2010.)

The role of cancer stem cells in hepatocellular carcinoma progression and recurrence: Implications for immunosuppression after liver transplantation. Ghanekar A, Guba M: Wyeth Pharmaceuticals. (100,000 2008 - 2010.)


Therapeutic notch inhibition in breast cancer; toward identifying a predictive test and a mode of action. Reedijk M: Canadian Breast Cancer Foundation. (198,836 2008 - 2010.)


Using patient and physician perspectives to develop treatment decision-making tools that support patient-centered care for colorectal cancer. Kennedy E, Urbach D, Gagliardi A: Canadian Institutes of Health Research. ($99,124 2009 - 2010.)

Validation and characterization of candidate germline familial pancreas cancer tumor suppressor genes. Gallinger S: Princess Margaret Hospital Foundation, Invest in Research Program. ($100,000 2009.)


HONOURS RECEIVED


Ghanekar A: Canadian Institutes of Health Research, Phase 1 Clinician Scientist Training Award. April 2009.

Okrainec A: Ross Fleming Surgical Educator Award for Excellence in Surgical Education, from the University Health Network. April 2009.
PUBLICATIONS


Tator CH: Concussions are brain injuries and should be taken seriously. Canadian Journal of Neurological Sciences: May 2009: 36[3]: pp 269-270.


Bernstein M: University of California Los Angeles (UCLA), Los Angeles, California, January 2009. Visiting Professor: (1) Experience empowers innovation: Outpatient brain tumour surgery, (2) What brain surgeons can learn from chatting to patients: A qualitative journey.


Bernstein M: Tokyo Women’s Medical University, Tokyo, Japan, March 2009. Invited Lecturer: Experience empowers innovation: Outpatient brain tumour surgery.

Bernstein M: Queen’s University, Department of Surgery, Kingston, ON, April 2009. William Ersil Visiting Professor: (1) Ethical challenges in clinical research, (2) Qualitative research for surgeons: A different journey of inquiry.


Bernstein M: Canadian Neurological Sciences Federation, 44th Annual Congress, Halifax, NS, June 2009. The voices of patients: What brain doctors can learn by talking with patients.

Bernstein M: All India Institute of Medical Sciences, Delhi, India, October 2008. Visiting Professor: Ethical issues in clinical research.

Bernstein M: Amrita Institute of Medical Sciences, Cochin, India, October 2008. Visiting Professor: Awake and outpatient craniotomy.


Bernstein M: McGill University and University de Montreal, Institut de recherches cliniques de Montreal (ICRM), Montreal, PQ, November 2008. Invited Speaker: Ethics in clinical research: Myth, mystery or missing in action.

Davis KD: Ghent University, Department of Experimental Clinical and Health Psychology, Special Interest Meeting on Symptom, Perception, Illness Behaviour and Disability, Bellem, Belgium, September 2008. Common and unique brain mechanisms of pain and attention: The impact of individual variability in brain imaging of pain and attention.

Eubanks JH: Italian Association for Rett Syndrome Meeting, Milan, Italy, June 2009. (1) Altered prevalence but preserved distribution of NMDA receptor subunits in the McCP2-null mouse brain, (2) Mouse models are critical tools for developing treatments for Rett syndrome.

Eubanks JH: Advances in Epilepsy Care Conference, Toronto, ON, August 2008. Progress towards prospective gene therapy treatments for Rett syndrome?

Eubanks JH: University of Victoria, Department of Biology, Victoria, BC, August 2008. Are we making progress towards correcting the behavioural deficits of Rett syndrome?


Fehlings MG: Christopher Reeve Foundation, Houston, Texas, February 2009. Update on the GRASSP outcome measure development.


Fehlings MG: American Association of Neurological Surgeons/Congress of Neurosurgical Surgeons (AANS/CNS), Joint Section on Neurotrauma and Critical Care, Toronto, ON, March 2009. (1) Role and timing of decompression for acute spinal cord injury: STASCIS trial update, (2) Toronto research - New horizons.


Fehlings MG: Open Medical Institute, Salzburg Weill Cornell Seminar: Neurosurgery Spine and Trauma, Salzburg, Austria, May 2009. (1) Repair and regeneration of the injured spinal cord, (2) Management of cervical spondylotic myelopathy: From basic science to recent clinical trials.

Fehlings MG: Canadian Neurological Sciences Federation, Halifax, NS, June 2009. Treatment option #2 - Early surgical decompression.


Fehlings MG: Canadian Institutes of Health Research, Cafe Scientific, Toronto, ON, October 2008. Panel member: Regenerative medicine: Can it diminish the economic demands on our health care system?


Fehlings MG: Toronto Rehabilitation Institute, Toronto, ON, November 2008. (1) Chair of Workshop: Update on hot pharmacological, bioengineered and cellular therapies for spinal cord injuries, (2) Speaker: Drugs: Where we are/what is coming?


Gentili F: University of Tanta, Department of Neurological Surgery, Tanta, Egypt, March 2009. The evolution of skull base surgery from open to minimally invasive techniques.


Gentili F: American Association of Neurosurgeons/Brigham and Women’s Hospital, Department of Neurosurgery/Brainscience Foundation (jointly), 6th International Congress on Meningioma and the Cerebral Venous System, Boston, Massachusetts, September 2008. (1) Moderator and Speaker: Video seminar endoscopy and minimally invasive surgery for meningiomas, (2) Moderator of breakfast seminar: Orbital and ventricular meningiomas, (3) Panelist: Seminar on tuberculum sella meningiomas.


Guha A: Ontario Institute of Systems Biology, Ottawa, ON, April 2009. Collapsin response mediator (CRMP1) in glioblastoma multiforme (GBMs).


Karimi-Abdolrezae S: University of Shiraz, Department of Anatomy, Shiraz, Fars Iran, January 2009. Adult neural stem cells for the repair of the central nervous system.


Lozano AM: European Association of Neurosurgical Societies-Societe Francaise de Neurochirurgie (EAANS-SFNC), Marseille Neurosurgery 2009 Joint Annual Meeting, Marseille, France, March 2009. Speaker: (1) Where have we been, where are we and where are we heading?, (2) Anatomopathological bases of psychiatric surgery.

Lozano AM: Emory School of Medicine, Emory Neurosciences Symposium in Honour of Dr. Mahlon Delong, Atlanta, Georgia, April 2009. Speaker: DBS for tremor and PD: New applications.


Lozano AM: Sixth International Congress on Mental Dysfunctions and Other Non-Motor Features in Parkinson’s Disease and Related Disorders, Dresden, Germany, October 2008. Deep brain stimulation (DBS) in motor and non-motor disorders.


Massicotte EM: Canadian Neurological Sciences Federation, Halifax, NS, June 2009. Chairman: Spine course - What is new in neurosurgery?


Tator CH: Professor Giorgio Brunelli of Studio Congress/Fondazione per la Ricerca sulle Lesioni del Midollo Spinale, 7th International Symposium on Experimental Spinal Cord Repair and Regeneration, Brescia, Italy, February 2009. Neural stem cells for spinal cord repair.


Tymianski M: University of the Philippines, Department of Neurosciences/Philippine General Hospital, Manila, Philippines, March 2009. (1) Natural history of hemorrhage and the surgical management of brain arteriovenous malformations, (2) Non-excitotoxic mechanisms of ischemic brain damage: The future of ischemia therapy, (3) Surgical management of complex brain aneurysms, (4) The road from bench-to-bedside in the treatment of ischemic stroke.

Tymianski M: Ottawa Hospital, Department of Neurosurgery, General Campus, Ottawa, ON, October 2008. Evaluating neuroprotection in aneurysm coiling therapy (ENACT) - a multi-center phase IIb clinical trial of a PSD-95 inhibitor.

Tymianski M: University of Kentucky, Kentucky Spinal Cord Injury Research Center, Departments of Neurological Surgery and the Department of Anatomy/Neurobiology, Louisville, Kentucky, October 2008. Speaker: Excitotoxic and non-excitotoxic mechanisms of ischemic brain damage.


Tymianski M: L'Hôpital de l'Enfant-Jésus du Centre hospitalier affilié universitaire de Québec (CHA), Department of Neuroradiology, Quebec City, PQ, December 2008. ENACT: Evaluation neuroprotection in aneurysm coiling therapy - a multi-center phase IIb clinical trial of a PSD-95 inhibitor.


Abnormal involuntary movements (AIMs) and synaptic plasticity in human basal ganglia. *Hutchison WD, Elijah C, Dostrovsky JO, Lozano AM, Hodaie M: Christopher and Dana Reeve Foundation.* [($149,495  2008 - 2010.)]

Fehlings MG, Rossignol S: *Christopher and Dana Reeve Foundation.* [($149,495  2008 - 2010.)]

Abnormal involuntary movements (AIMs) and synaptic plasticity in human basal ganglia. *Hutchison WD, Elijah C, Dostrovsky JO, Lozano AM, Hodaie M: Michael J. Fox Foundation for Parkinson’s Research.* [($534,110  2006 - 2009.)]


Antidepressant effects of deep brain stimulation in animal models: Symptom specificity and mechanisms of action. *Nobreja J, Hamani C (co-applicant): Ontario Mental Health Foundation.* [($150,000  2009 - 2011.)]

Association for Osteosynthesis (AO) Spine North America Fellowship Program, 2-Year Merit Award. *Fehlings MG, Massicotte EM, Rampersaud YR, Lewis S: Association for Osteosynthesis (AO) Spine North America.* [($150,000  2007 - 2009.)]

Attenuated NMDA receptor development in MeCP2-deficient mice: Relevance to Rett syndrome. *Eubanks JH, Zhang L, Brodtich J: Canadian Institutes of Health Research.* [($610,225  2006 - 2011.)]

Building the University Health Network (UHN) advanced therapeutics research platform. *Paige C, Fehlings MG, Davis KD, (one of 35 principle investigators across 7 themes): Canada Foundation for Innovation, Research Hospital Fund Large Scale Institutional Endeavours (RHF-LSIE).* [($92,255,967  2008 - 2012.)]


Canada Research Chair in Neuroscience, Tier 1. *Lozano AM: Canadian Institutes for Health Research.* [($1,400,000  2005 - 2012.)]

Congress of Neurological Surgeons (CNS) Wilder Penfield Clinical Investigator Scholarship awarded to Dr. Dwarkanath Srinivas [Supervisor: Lozano A]. *Congress of Neurological Surgeons.* [($10,000  2008.)]


Cancer Research Society (CRS) Group Grant to the University Health Network (UHN) and the Hospital for Sick Children (HSC). *Dick J: Ontario Institute for Cancer Research.* [($80,000  2008 - 2012.)]


Enhancing access of the spinal cord injury community to translational clinical research trials [R008-06]. *Fehlings MG: Rick Hansen Foundation.* [($106,361  2009.)]
Evaluation of effective stimulation parameters for seizure control in rats with thalamic deep brain stimulators, using a pilocarpine seizure model.  *Hodaie M, Lozano A: Dean’s Fund New Staff Grant.*  ($9,800 2005 - 2010.)

Examination of the key imaging and clinical determinants of outcome after traumatic spinal cord injury  [R003-07].  *Fehlings MG: Rick Hansen Man in Motion Foundation.*  ($132,796 2007 - 2008.)

Fellowship to J. Buttigieg: Characterization of the physiological incorporation of oligodendroglial precursor cells in the injured spinal cord.  *Buttigieg J, Fehlings MG: Ontario Neurotrauma Foundation.*  ($90,000 2009 - 2011.)

Fellowship to K. Satkunendrarajah: Adult derived neural precursor cells transplanted into the acutely injured spinal cord promote recovery of somatic and autonomic nerve function.  *Satkunendrarajah K, Fehlings MG: Ontario Neurotrauma Foundation.*  ($90,000 2009 - 2011.)

Fellowship to YC Wu: Define the therapeutic window of riluzole for the treatment of spinal cord injury: Aim at protection for axons and oligodendrocytes.  *Wu YC, Fehlings MG: Ontario Neurotrauma Foundation.*  ($45,000 2009 - 2010.)

From research to clinic, the translational step with functional magnetic resonance imaging of the human spinal cord  [spinal fMRI].  *Stroman P, Fehlings M, Mikulis D, Pokrupa R, Smith K: Rick Hansen Foundation.*  ($97,015 2008 - 2009.)


Functional magnetic resonance image and cognitive functions following mild traumatic brain injury.  *Pitto A, Johnston K: Canadian Institutes of Health Research.*  ($359,000 2006 - 2011.)

GATA4 and GATA6 as prognostic indicators of glioblastoma multiforme patients.  *Guha A: Radiation Therapy Oncology Group [RTOG], Translational Research Seed Grant.*  ($15,000 2008 - 2009.)

Glioblastoma multiforme biomarkers.  *Siu KWM, Guha A, Jorg Grigull A: Canadian Institutes of Health Research, One-Year Bridge Funding.*  ($100,000 2009.)


Human studies of pain perception.  *Davis KD, Tenenbaum HC, Diamant NE: Canadian Institutes of Health Research.*  ($726,452 2007 - 2012.)


Microenvironment induced molecular heterogeneity in glioblastoma multiforme (GBM).  *Guha A: Canadian Institutes of Health Research, Grant No. 171871.*  ($125,000 2008 - 2012.)


Molecular mechanisms of neuronal injury.  *Tymianski M, Twelve investigators across Canada: Canadian Stroke Networks.*  ($91,000 2006 - 2008.)


Neurophysiology of human subthalamic nucleus.  *Dostrovsky JO, Hutchison WD, Lozano AM: Canadian Institutes of Health Research.*  ($625,000 2004 - 2009)

Neuroprotection of the injured spinal cord using an anti-apoptotic molecule delivered through a novel bioengineered drug delivery system.  *Fehlings MG, Shoichet MS: The Physicians’ Services Incorporated Foundation.*  ($147,000 2008 - 2010.)

Neuroprotection: Preventing cell death and neuronal damage from stroke.  *Tymianski M: Canadian Stroke Networks.*  ($71,430 2006 - 2008.)

New emerging team in spinal cord injury research.  *Fehlings MG: Krembil Foundation.*  ($1,500,000 2006 - 2011.)

North American Clinical Trials Network for the treatment of spinal cord injury [CTN4-2008 F-T].  *Fehlings MG, Tator CH: Christopher Reeve Foundation.*  ($195,200 2008.)
North American Clinical Trials Network for the treatment of spinal cord injury (CTN5-2009 F-T).  
Fehlings MG, Tator CH: Christopher Reeve Foundation.  ($121,500 2009.)

NREF/AANS Research Fellowship Award to H. Francis Farhardi: Transcriptional programming of the myelin basic protein gene following spinal cord injury in the mouse.  
Fehlings MG, Farhardi HF: Neurosurgery Research and Education Foundation (NREF) of the American Association of Neurological Surgeons [AANS].  ($70,000 2007 - 2009.)

Fehlings MG: Ontario Neurotrauma Foundation.  ($400,000 2007 - 2009.)

Optimizing neural repair and plasticity after chronic spinal cord injury: A combined approach with adult neural precursor cells, inhibition of glial scar and active rehabilitation.  
Karimi S, Fehlings M, Rossignol S: Christopher and Dana Reeve Foundation.  ($150,000 2009 - 2011.)

Phase I trial of riluzole in patients with acute spinal cord injury [SIR-P].  
Fehlings MG: Association of Osteosynthesis (AO) Spine International.  ($258,000 2008 - 2010.)

Protein nitration in traumatic and ischemic brain damage.  
Tymianski M: Canadian Institutes of Health Research.  ($668,710 2006 - 2011.)

Protein nitration in traumatic brain injury.  
Tymianski M, Lau A: Canadian Institutes of Health Research/Institute of Neurosciences, Mental Health and Addiction [INMHA] Doctoral Award.  ($61,500 2006 - 2008.)

Regenerative approach to intervertebral disc research.  
Fehlings MG: Synthes Spine Company, L.P.  ($210,000 2008 - 2009.)

Regenerative medicine strategies for spinal cord injury repair: Integration of stem cell biology, nanotechnology, bioengineering approaches and neurosurgical application.  
Fehlings M, Tator CH: Canadian Institutes of Health Research.  ($1,500,000 2004 - 2009.)

Regenerative medicine strategies for spinal cord injury repair: Integration of stem cell biology, nanotechnology, bioengineering approaches and neurosurgical application (RMF-72552).  
Fehlings MG, Morshed C, Shoichet M, Stanisz G, Tator CH, van der Kooy D: Canadian Institutes of Health Research [CIHR].  ($1,500,000 2004 - 2009.)

Regulation and function of kallikreins in spinal cord injury and repair.  
Scarisbrick IA, Blaber M, Fehlings MG: National Institutes of Health.  ($1,654,708 2008 - 2013.)

Regulation of antiretroviral drug transport and metabolism in the brain.  
Bendayan R, Valiante T: Canadian Institutes of Health Research.  ($234,198 2005 - 2008.)

Role of TRPM channels in ischemic brain damage.  
Tymianski M: Canadian Institutes for Health Research, MOP-89720.  ($900,000 2008 - 2013.)

Role of TRPM channels in ischemic brain damage.  
Tymianski M: Canadian Institutes for Health Research, IAO-86309.  ($41,513 2008.)

Spinal cord repair.  
Fehlings MG, Morshed C, Shoichet M, Tator C, van der Kooy D: McLaughlin Centre for Molecular Medicine.  ($100,000 2008 - 2009.)

States of mind: Emerging issues in neuroethics.  
Baylis F, Bernstein M, Fine A, Glannon W, Kimmelman J, Reid L: Canadian Institutes of Health Research.  ($1,375,000 2006 - 2011.)

Strategies to activate endogenous neural stem cells after spinal cord injury.  

Studentship award to James Rowland.  
Rowland J, Fehlings MG: Multiple Sclerosis Society of Canada.  ($36,000 2007 - 2009.)

Studentship to A. Karpova: The development of standardized, objective MRI assessments and prognostic model for non-traumatic cervical spinal cord injury due to cervical spondylosis.  
Karpova A, Fehlings MG: Ontario Neurotrauma Foundation.  ($23,000 2009 - 2011.)

Studentship to R. Salewski: 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.)

Summer Studentship awarded to Newton Cho: Examination of the neuroprotective role of IgG for spinal cord injury.  
Cho N, Fehlings MG: Canadian Institutes of Health Research.  ($4,950 2009.)

Surgical versus conservative treatment of metastatic epidural spinal cord compression (MESCC). Quality of life and cost-effectiveness outcomes.  

Targeting postsynaptic density proteins in the treatment of CNS injury.  
Tymianski M: National Institutes of Health.  ($1,610,000 2004 - 2009.)

Tasker Chair in Functional Neurosurgery.  
Lozano AM: Radionics Inc.  ($15,000 1998 - 2008.)

The bilateral motor representation of the dominant subthalamic nucleus in Parkinson’s disease.  


The ischemic axon: Cross-talk with myelin in K+ channel terms (T 6328).  
The living myelin sheath: Functional organization and role in dynamic modulation of axonal function in CNS. 

Velumian AA, Fehlings M.G: Natural Sciences and Engineering Research Council of Canada [NSERC]. ($125,000 2008 - 2013.)

The oscillation model of the basal ganglia. Chen R, Moro E, Lang A, Lozano AM: Michael J. Fox Foundation for Parkinson’s Disease. ($548,427 2006 - 2009.)


The role of somatosensory activity on cortical plasticity and functional motor outcomes following upper extremity peripheral nerve lesions. Davis KD, Anastakis D: The Physicians’ Services Incorporated Foundation. ($142,500 2007 - 2009.)

The role of TRP channels in the cellular mechanism of stroke and aging. Tymianski M, MacDonald JF: Canadian Institutes of Health Research. ($750,000 2004 - 2009.)


Tissue factor in tumor progression, angiogenesis. Rak J, Guha A: National Cancer Institute of Canada, Grant No. 018173. ($117,000 2007 - 2010.)

Towards the correction of Rett-like behaviour in MeCP2-deficient mice by exogenous gene transfer. Eubanks JH, Burnham WM, Snead III OC: Canadian Institutes of Health Research. ($585,685 2004 - 2009.)

Transforming neuropathic pain research in Canada. Salter MW, Davis KD, de Koninck Y, Mogil J, Zhuo M, Kapur S: Neuroscience Canada - Brain Repair Program. ($1,750,000 2004 - 2008.)


Transplantation of neural stem cells and tissue engineering approaches to repair chronic, severe spinal cord injury. Fehlings MG, Hawrylyuk G: Craig H. Nielsen Foundation. ($329,000 2006 - 2008.)

Transplantation of spinal cord derived adult neural stem/progenitor cells for axonal regeneration and myelination of the injured spinal cord. Tator CH: International Institute for Research in Paraplegia [IRP]. ($105,000 2007 - 2009.)

Treatment of stroke with peptide and small molecule inhibitors of NMDA receptor-PSD95 interaction. Tymianski M: Canadian Stroke Network. ($329,000 2006 - 2008.)

University of Toronto spine collaborative [UTSpineLINK]. Fehlings MG: Ministry of Health and Long-Term Care. ($98,010 2009 - 2011.)

Using transgenic glioma models to explore the role of inhibitors of apoptosis [IAPs] in glioblastoma multiforme [GBMs]. Guha A: Brain Tumor Society. ($75,000 2007 - 2009.)

Vanier Canada doctoral research scholarship awarded to James W. Austin: 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.)

HONOURS RECEIVED


Lozano AM: Designated as a key opinion leader in the area of Deep Brain Stimulation by Authoratory, a privately funded search engine. With over 7000 citations of publications in the this specific area to date, Lozano's rank is #1 when compared to all other authors using the same keywords. July 2008.


Tator CH: Inducted into the Canadian Medical Hall of Fame. April 2009.

Tator CH: The Social Responsibility Award [part of the Values in Action Awards Program of St. Michael's Hospital] for being one of the founders of TIPSY (Think First Injury Prevention Strategy for Youth). September 2008.

Division of Orthopaedic Surgery

Dr. J.R. Davey  Associate Professor (Division Head)
Dr. W.M. Erwin  Assistant Professor
Dr. R. Gandhi  Lecturer
Dr. B. Graham  Assistant Professor
Dr. J. Lau  Assistant Professor
Dr. S.J. Lewis  Assistant Professor
Dr. N. Mahomed  Associate Professor
Dr. K.W. Marshall  Assistant Professor
Dr. D.J. Ogilvie-Harris  Associate Professor
Dr. Y.R. Rampersaud  Associate Professor
Dr. K.A. Syed  Lecturer
Dr. C.J.H. Veillette  Associate Professor
Dr. H.P. von Schroeder  Associate Professor

PUBLICATIONS


INVITED VISITS TO OTHER HOSPITALS/UNIVERSITIES


Erwin WM: World Federation of Chiropractic, 10th Biennial Congress, Montreal, PQ, April 2009. Invited Speaker: Canadian Chiropractic Research Foundation (CCRF) scientist in disc biology: A view from the University of Toronto.


Rampersaud YR: OneSpine, Course, Cancun, Mexico, February 2009. (1) Best treatment option is kyphoplasty, (2) Ideal indications for minimally invasive procedures faculty, (3) Interspinous process decompression is the preferred treatment over simple decompression, (4) Transforaminal lumbar interbody fusion (TLIF) is preferred over any other surgical option to include anterior lumbar interbody fusion (ALIF), pars repair, axial lumbar interbody fusion (LIF), (5) Optimal treatment in multi-level cervical decompression and fusion.


Rampersaud YR: North American Spine Society, 23rd Annual Meeting, Toronto, ON, October 2008. (1) Direct cost per quality adjusted life years of surgical intervention for focal spinal stenosis compared to primary hip and knee replacement for osteoarthritis at two years post-intervention, (2) Intraoperative multimodality monitoring in adult spinal deformity: Analysis of a prospective series of 102 cases with independent evaluation, (3) Patient self-reported concerns in the period post-referral and prior to seeing a spine surgeon.


von Schroeder HP: Rehabilitation Solutions (Mississauga Site), Toronto, ON, July 2008. Guest Speaker: Physical examination of the wrist.

RESEARCH AND INVESTIGATIONS


An epidemiological investigation of the risk of lumbar disc herniation and cauda equina syndrome following chiropractic care. Cote P, Cassidy D, Boyle E, Rampersaud Y: Canadian Chiropractic Association Grant. [$400,000 2008 - 2010.]


Aptosis and molecular signaling in intervertebral disc notochordal cells cultured under hypoxic conditions. Erwin WM, Felings MG: Association for Osteosynthesis (AO) Spine North America. ($30,000 2008 - 2009.)

Assessment of informatics competency and information management strategies in surgical trainees. Veillette CJH, Kanampuza J: University of Toronto. [$10,000 2009.]


Harnessing collective intelligence for the management of subcapital hip fractures. Ahn J, Veillette CJH, Bernstein J: Orthopaedic Trauma Association. ($10,000 2009.)

Investigation of DRS-induced recovery of IL-1-induced degeneration of IVD NP cells. Erwin WM: Skoll Foundation. ($53,000 2007 - 2008.)

Measuring and understanding gender equity in access to care. Brown AD, Mahomed N: Canadian Institutes of Health Research. ($103,254 2006 - 2009.)


Regenerative medicine applications to the IVD. Erwin WM, Fehlings MG, Inman R: Synthes Corporation. ($210,000 2008 - 2010.)

Surgical treatment of focal spinal stenosis compared to hip and knee replacement. Rampersaud R: Canadian Spine Society. ($60,000 2007 - 2009.)


HONOURS RECEIVED

**Division of Plastic Surgery**

Dr. D.J. Anastakis  
Associate Professor

Dr. T.A. Bell  
Lecturer

Dr. P. Bray  
Assistant Professor

Dr. L.T. Dvali  
Assistant Professor

Dr. D. Ford  
Lecturer

Dr. B. Graham  
Assistant Professor

Dr. S.O.P. Hofer  
Associate Professor (Division Head)

Dr. R.T. Manktelow  
Professor

Dr. H.P. von Schroeder  
Associate Professor

Dr. T. Zhong  
Lecturer

**PUBLICATIONS**


**INVITED VISITS TO OTHER HOSPITALS/UNIVERSITIES**

Anastakis DJ: Association for Surgical Education/American College of Surgeons, 94th Annual Clinical Congress, San Francisco, California, October 2008. SERF workshop course instructor [postgraduate education].

Anastakis DJ: University of Lausanne [CHUV], Plastic Surgery Research Meeting, Lausanne, Switzerland, November 2008. Cortical plasticity following upper limb reconstruction. What every plastic surgeon needs to know.

Anastakis DJ: Hackensack University Medical Center, Department of Surgery, Hackensack, New Jersey, December 2008. Surgeons as educators.


Development of an injury severity score for hand trauma. Dvali LT, Graham B: Physicians’ Services Incorporated. ($33,000 2007 - 2009.)

Development of autologous tissue engineered vascularized adipose tissue for restoration of contour defects and breast reconstruction. Hofer SOP, van Osch G, Division of Experimental ENT, Erasmus University Rotterdam: Nuts Ohra Foundation. ($260,000 2006 - 2009.)

Mental imagery proficiency as a predictive marker of surgical skill in medical students. Okhowat A, Brydges R, Anastakis DJ, Reznick RK, Dubrowski A: Undergraduate Medical Education, University of Toronto. Distinction in Research Program. ($7,500 2007 - 2008.)


The role of somatosensory activity on cortical plasticity and functional motor outcomes following upper extremity peripheral nerve lesions. Anastakis DJ, Davis KD: The Physicians’ Services Incorporated Foundation. ($142,500 2007 - 2009.)

Vascularization of tissue engineered mucosa. Hofer SOP, Kanaar R, Eggermont A, Divisions of Genetics and Surgical Oncology, Erasmus Medical Center in Rotterdam: Vanderes Foundation. ($200,000 2006 - 2008.)


**INVITED VISITS TO OTHER HOSPITALS/UNIVERSITIES**

Darling GE: University of Nebraska, 3rd Annual Fall Midwest Thoracic and Gastrointestinal Oncology Conference, Omaha, Nebraska, November 2008. Lecture: Surgical options in the management of advanced stage lung cancer.


Mingyao L: National Chiao Tung University, College of Life Science, Hsinchu, Taiwan, May 2009. XB130, a novel adaptor protein in signal transduction and tumorigenesis.

Mingyao L: The First Affiliated Hospital of Zhengzhou University, Zhengzhou, Henan, China, October 2008. Critical care and molecular medicine.


Pierre AF: Canadian Association of Critical Care Nurses, Annual Meeting, Toronto, ON, April 2009. Percutaneous tracheostomy.


Yasufuku K: The University of Texas, MD Anderson Cancer Center, Interventional Pulmonology in Cancer Patients Workshop: An Intensive Hands-On Workshop, Houston, Texas, February 2009. (1) Autofluorescence bronchoscopy and narrow band imaging, (2) Hands-on teaching EBUS-TBNA.


RESEARCH AND INVESTIGATIONS
Senior Investigator’s Name Appears in Italics

A multi-center, randomized, double-blind, placebo-controlled, phase 3 study of single-agent tarceva (erlotinib) following complete tumor resection with or without adjuvant chemotherapy in patients with stage IB-IIIA non small cell lung carcinoma who have EGFR positive tumor (RADIANT). Keshavjee S, Darling G, Waddell T, de Perrot M, Pierre A, Johnston M: OSI Pharmaceuticals. ($200,000 2007-2008.)

A phase III randomized trial of lobectomy versus sublobar resection for small [less than or equal to 2 cm] peripheral non-small cell lung cancer [CALGB 140503, NCIC BRC.5]. de Perrot M, Waddell T, Darling G, Keshavjee S, Pierre A: National Cancer Institute of Canada, Clinical Trials Group. ($120,000 2008.)


Cell replacement therapy for cystic fibrosis. Waddell TK: Canadian Cystic Fibrosis Foundation. ($189,716 2007 - 2010.)

Development of a novel therapeutic strategy with pemetrexed and regulatory T cell depletion for malignant pleural mesothelioma: A translational research project. de Perrot M: Mesothelioma Applied Research Foundation. ($100,000 2008 - 2009.)


Ex-vivo perfusion for lung transplantation.  Keshavjee S: McEwen Centre Commercialization Award. ($125,000 2009 - 2010.)

GABAergic regulations of airway epithelium in asthma. Lu WY, Inman M, Liu M: Canadian Institutes of Health Research. ($675,414 2007 - 2012.)


Health-related quality of life in advanced lung disease and lung transplantation. Singer L: Canadian Institutes of Health Research. ($290,000 2007 - 2009.)


Lung transplant proposal.  Keshavjee K, Singer L: Canadian Cystic Fibrosis Foundation, CF Transplant Center Incentive Grant. ($60,241 2008.)

Lung transplant proposal.  Keshavjee S, Singer L: Canadian Cystic Fibrosis Foundation, CF Transplant Centre Incentive Grant. ($55,598 2009 - 2010.)

Molecular diagnostic strategies for the selection of donor lungs for transplantation.  Keshavjee S: Roche Organ Transplantation Research Foundation (ROTRF). ($300,000 2009 - 2012.)

Repair of damaged lungs for transplantation using an ex-vivo gene therapeutic strategy. Keshavjee S: Center for Gene Therapy of Cystic Fibrosis and Other Genetic Diseases, University of Iowa/National Institutes of Health, Pilot Grant. ($34,560 2006 - 2008.)

Research in immune tolerance and transplantation. Levy G: Canadian Foundation of Innovation. ($1,000,000 2004 - 2009.)


The role of bone marrow progenitors in lung regeneration. Waddell TK: Canadian Institutes of Health Research. ($565,000 2008 - 2013.)

The role of galectin-3 in xenograft rejection. Waddell TK: Heart & 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**

**Keshavjee S:** Colin Woolf Award for Excellence in Long-Term Contribution to Continuing Medical Education, University of Toronto. December 2008.

**Keshavjee S:** Pearson-Ginsberg Chair in Thoracic Surgery, Toronto General Hospital and Toronto Western Hospital Foundation. December 2008.

Division of Urology

Dr. A. Finelli  Assistant Professor
Dr. N.E. Fleschner  Professor (Division Head)
Dr. M.M. Hassouna  Associate Professor
Dr. M.A.S. Jewett  Professor
Dr. A.G. Matthew  Assistant Professor
Dr. S.B. Radomski  Professor
Dr. M. Robinette  Associate Professor
Dr. J. Trachtenberg  Professor

PUBLICATIONS


INVITED VISITS TO OTHER HOSPITALS/UNIVERSITIES


Jewett MAS: The Prostate Centre at Vancouver General Hospital/The University of British Columbia, University Health Network-Princess Margaret Hospital, Issues and Controversies in Prostate Care [ICPC] 2009, Cancun, Mexico, January 2009. (1) Moderator: What does a provincial agency provide to ensure high standards of care?, (2) Value of the biopsy in renal cell carcinoma.

Jewett MAS: University of Sao Paolo, Faculty of Medicine, Cancer Urologico, Sao Paolo, Brazil, March 2009. Visiting Professor: (1) At the Open Session on Renal Cell Carcinoma: (a) Talk: Update on renal cell carcinoma, (b) Presented during 3 Slides – 3 Minutes – Controversies: Treatment strategy in Von Hippel-Lindau, (2) At the Testicular Cancer session: Presented 3 Slides – 3 Minutes – Controversies: Sarcomatous transformation after chemo: Treatment, (3) Talk at the Conference: The role of PET-CT in urologic cancer, (4) Presented during Bladder Cancer - 3 Slides – 3 Minutes Controversies: Bleeding in inoperable patients: What can be done?


Matthew AG: Us Two!, Brampton, ON, February 2009. Sex, intimacy and prostate cancer.


Radomski SB: West Park Hospital, Medical Staff Association Meeting, Toronto, ON, January 2009. OAB in the elderly.


A randomized, double-blind study to assess the safety and efficacy of solifenacin (Vesicare) in comparison to oxybutynin for overactive bladder patients. Radomski SB: Astellas Pharma US, Inc. ($38,500  2007 - 2008.)

Application of selective nerve stimulation (SNS) signal in a spinalized rodent overactive bladder (OAB) model to understand the mechanism of sacral neuromodulation. Hassouna M: Ethicon; Johnson & Johnson. ($75,000  2008 - 2009.)

Applying a knowledge transfer intervention to reduce positive surgical margins following radical prostatectomy in Ontario. Finelli A, Fleshner NE, Sawka C, McLeod R, Evans A, Chin J, Lockwood G, Crossley C: Canadian Urological Association; Canadian Urological Oncology Group, and Abbott Oncology. ($15,000  2008 - 2009.)


Does directed self-audit of urologists stimulate reflection and improved lymph node retrieval in patients with bladder cancer? Finelli A, Gagliardi AR, Kulkarni GS, Fleshner NE: Continuing Education and Professional Development, Faculty of Medicine, University of Toronto. ($5,000  2008 - 2009.)


Effect of RANK ligand inhibition on metastatic prostate cancer. Trachtenberg J: Amgen. ($90,000  2008 - 2009.)


Genomic characterization of clinically distinct pathways of prostate carcinogenesis. van der Kwast T, Trachtenberg J: Prostate Cancer Research Foundation of Canada. ($60,000 2008 - 2010.)


Impact of combination antioxidants on MRI markers of cell proliferation and hypoxia among men on active surveillance with early stage prostate cancer. Fleshner N, Haider M, Venkateswaran V: Canadian Urological Association/Canadian Urologic Oncology Group (CUA/CUOG)/Abbott Prostate Cancer Research Grant. ($25,000 2007 - 2008.)

Impact of combination antioxidants on MRI markers of cell proliferation and hypoxia among men on active surveillance with early stage prostate cancer. Fleshner N, Haider M, Venkateswaran V: Prostate Cancer Research Foundation of Canada. ($60,000 2007 - 2008.)


Magnetic resonance (MR) guided robotic assisted surgery of prostate cancer. Trachtenberg J, Goldenberg A: Health Technology Exchange (HTx). ($100,000 2009 - 2010.)


Photodynamic therapy - Basic science studies: Project 3-prostate preclinical. Hetzel FW, Chen Q, Wilson BC, Trachtenberg J: National Institutes of Health (US), Program Project Grant. ($1,000,000 2002 - 2009.)


Prostate cancer prevention clinic. Trachtenberg J, Matthew AG, Horsburgh S: The Princess Margaret Hospital Foundation. ($1,000,000 2005 - 2011.)

Randomized study to investigate the efficacy and safety of treatment with dutasteride and tamsulosin once daily for 4 years on the improvement of symptoms and outcome of benign prostatic hyperplasia. Hassouna MH, Radomski S: Glaxo-Smith-Kline Pharmaceutical. ($15,000 2004 - 2008.)
Randomized trial of the effects of cholecalciferol on prostate cancer associated lesions and on cholecalciferol metabolites in prostate tissue. Veith R, van der Kwast T, Fleshner N, Klotz L: Canadian Institutes for Health Research. ($262,730 2006 - 2008.]

Reduction in progression among men on watchful waiting using dutasteride. Fleshner N [investigator initiated], REDEEM Study Group: Glaxo Smith Kline. ($8,000,000 2006 - 2011.)


The SELECT Trial. Trachtenberg J, Jewett M, Tshilias J: National Cancer Institute (USA), SouthWest Oncology Group (SWOG). ($250,000 2000 - 2009.)

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

Hassouna MM: A.W. Bruce Faculty Undergraduate Teaching Award. June 2009.


PUBLICATIONS


INVITED VISITS TO OTHER HOSPITALS/UNIVERSITIES


Lindsay TF: The Royal College of Surgeons of Ireland, The XVIII Waterford Surgical Meeting, Waterford, Ireland, October 2008. EVAR [Endovascular Repair] for ruptured abdominal aortic aneurysm [RAAA]: Can it really change outcomes?

Lindsay TF: American College of Surgeons, Manitoba Chapter, Winnipeg, MB, November 2008. Guest Speaker: Science and technology: Can it improve surgical outcomes?

Lindsay TF: Scarborough Family Practitioners Group, General Practitioners Workshop, Markham, ON, November 2008. Diffuse vascular disease and peripheral arterial disease.


Tse L: Le Entretiens Vasculaires du Québec Inc., The Entretiens Vasculaires XXVII, Montreal, PQ, May 2009. Approaches to inadvertent branch coverage during EVAR: Case report and review [prepared and presented by vascular resident, Dr. Heather Cox]. Dr. Cox won second place in the CONCOURS PAUL-CARTIER resident competition for this talk.

Wooster DL: University of Manitoba, Department of Surgery, Division of Vascular Surgery, Winnipeg Vascular and Endovascular Meeting, Winnipeg, MB, April 2009. Duplex ultrasound interpretation parameters: What numbers should we use?


Wooster DL: University of Southern California, Keck School of Medicine, Los Angeles, California, April 2009. (1) Resident Rounds - Discussion: Complications associated with hybrid endovascular grafts, (2) Vascular Grand Rounds: Perspectives on self-assessment in maintenance of certification, (3) Visiting Professor at the Surgical Grand Rounds: Perspectives on self-assessment in surgical practice.


Wooster DL: Cleveland Clinic Heart and Vascular Institute, Advances in Vascular Imaging and Diagnosis (AVID), New York, New York, November 2008. (1) Customizing the interpretation and reporting of the ankle brachial index (ABI) based on the referral indication, (2) More on screening for abdominal aortic aneurysm (AAA): One center’s experience on why and how to do it.


Wooster DL: University of Southern California, Keck School of Medicine, Los Angeles, California, April 2009. (1) Resident Rounds - Discussion: Complications associated with hybrid endovascular grafts, (2) Vascular Grand Rounds: Perspectives on self-assessment in maintenance of certification, (3) Visiting Professor at the Surgical Grand Rounds: Perspectives on self-assessment in surgical practice.


Wooster DL: Cleveland Clinic Heart and Vascular Institute, Advances in Vascular Imaging and Diagnosis (AVID), New York, New York, November 2008. (1) Customizing the interpretation and reporting of the ankle brachial index (ABI) based on the referral indication, (2) More on screening for abdominal aortic aneurysm (AAA): One center’s experience on why and how to do it.

Wooster DL: University of Manitoba, Department of Surgery, Division of Vascular Surgery, Winnipeg Vascular and Endovascular Meeting, Winnipeg, MB, April 2009. Duplex ultrasound interpretation parameters: What numbers should we use?


Wooster DL: University of Southern California, Keck School of Medicine, Los Angeles, California, April 2009. (1) Resident Rounds - Discussion: Complications associated with hybrid endovascular grafts, (2) Vascular Grand Rounds: Perspectives on self-assessment in maintenance of certification, (3) Visiting Professor at the Surgical Grand Rounds: Perspectives on self-assessment in surgical practice.

RESEARCH AND INVESTIGATIONS

Senior Investigator’s Name Appears in Italics

Complement activation following ruptured abdominal aortic aneurysm: Combining human observation with animal experimentation to establish a framework for human therapy. Lindsay TF: The Physicians’ Services Incorporated Foundation. ($161,000 2007 - 2009.)

Continuing education strategies in the implementation of clinical practice guidelines: Addressing a care gap. Wooster D, Dueck A, Wooster E, Moneley D: University of Toronto, Faculty of Medicine, Office of Continuing Education. ($5,000 2007 - 2008.)


HONOURS RECEIVED

Tse L: Barbara and Frank Milligan Graduate Fellowship ($5400). January 2009.


Tse L: Ontario Graduate Scholarship ($15,000) - Declined offer of award in order to accept NSERC CGS-M. April 2009.

Tse L: University of Toronto Fellowship, Institute of Biomedical Engineering ($5,000). September 2008.

Wooster DL: Chair, Continuing Professional Education Committee of the American College of Surgeons. October 2008.
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 interprofessional 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 focus in orthopaedic sports medicine and building surgical strength in Urology, Orthopedics, Plastic Surgery and General Surgery.

**NEW STAFF**

Dr. Tulin Cil came on staff in July 2008 in General Surgery with a focus on Breast Oncology. Dr Cil’s appointment is in partnership with UHN with activities at MSH and PMH. Dr. Cil has a master’s degree in education and will carry out her research in the Wilson Centre for Research in Education at UHN. Terri Stuart-McEwan has been recruited as the Clinical Director of Surgical Program. Terri has been instrumental in aligning our
surgical wait times and integration of our surgical oncology programs with Cancer Care Ontario. Women’s College will continue to actively recruit in surgical areas that are central to key programs.

**APPOINTMENTS AND ACTIVITIES**

The Department of Surgery at WCH has been awarded a Canadian Breast Cancer Foundation (Ontario Chapter) Chair in Breast Cancer Surgical Research. A search process is underway which we hope will attract the highest possible candidates for this exciting initiative. Overall, for a new Department of Surgery (3 years old) of which the majority of members still qualify as new recruits, we have had an excellent output in grant capture (9), manuscripts published (19) and invited lectures (17). Other activity highlights include Dr. Mitch Brown and Dr. John Semple who co-Chaired the 9th Annual Toronto Breast Surgery Symposium held this past April. Women’s College Hospital continues to host international candidates under the new Allergan Breast Reconstruction clinical fellowship. The Dept of Surgery was successful in two Women’s College Hospital Alternate Funding Plan, Innovation Funding Competition titled “Creating a coordinated and integrated approach to thyroid cancer assessment: Semple JL, Kelly C, Stuart-McEwan T – “Diagnosis & Treatment, A Rapid Diagnostic Assessment Centre” ($30,000) and “Improving breast cancer care with a rapid diagnostic clinic.” Heisey R, Semple J, Cil T, Lord B, McCready D: ($30,000 2009.)

Research in lymphedema continues to progress. Graduate Student, Amy Baker, co-supervised by Dr. Semple with Dr. Miles Johnston at the Sunnybrook Research Centre, won a prize for research awards at the 8th Annual Graduate Student Research Day, Women’s College Research Institute on May 7, 2009 for the paper presentation “Experimental Assessment of Autologous Lymph Node Transplantation and Lymphangiogenic Growth Factor Therapy as Treatments for Post-Surgical Lymphedema.”

In April 2009 we moved into our new Department of Ambulatory Surgery which is a newly renovated area on the 2nd floor of the hospital and provides surgical clinic area with 8 exam rooms and 2 state-of-the art minor procedure rooms. It also provides offices and administrative space for core and affiliate surgeons. This space will house much of the core surgical activities and programs of the Department of Ambulatory Surgery. Planning for a new WCH building is well underway with “shovel in the ground” expected for phase I to be in 2010. The WCH Department of Surgery looks forward to further exciting developments in recruitment and development in ambulatory surgical programs and continue to work towards innovative and quality initiatives.
Division of General Surgery

Dr. T. Cil  Assistant Professor
Dr. G.Y. Hiraki  Assistant Professor
Dr. L. Lickley  Professor

Division of Orthopaedic Surgery

Dr. J. Theodoropoulos  Lecturer

PUBLICATIONS


RESEARCH AND INVESTIGATIONS

Breast Cancer Prevention Trials. Lickley L, Messner S, Lenkov P: National Cancer Institute of Canada-Clinical Trials Group (NCIC-CTG) – ($36,900) and National Surgical Adjuvant Breast and Bowel (NSABP) Project ($60,012.60) given to Women’s College Hospital (centre for NSABP). ($96,912.00 2008 – 2009.)

Improving breast cancer care with a rapid diagnostic clinic. Heisey R, Semple J, Cil T, Lord B, McCready D: Women’s College Hospital, Alternate Funding Plan, Innovation Funding Competition. ($30,000 2009.)

Teaching the sensitive physical exam: An evaluation of student learning and retention. Cil T, Wright F, Woods N: Centre for Faculty Development at St. Michael’s Hospital, Education Development Fund. ($12,300 2008.)
Division of Plastic Surgery

Dr. M.H. Brown  Associate Professor
Dr. J.L. Semple  Professor

PUBLICATIONS

Eckhaus AA, Fish JS, Skarja G, Semple JL, Selton MV:  

Firth PG, Zheng H, Windsor JS, Sutherland AI, Imray CH, Moore GWK, Semple JL, Roach RC, Salisbury RA:  

Panchapakesan V, Brown MH:  

Semple JL, Moore GWK:  

Semple JL, Moore GWK:  

Snell L, Baxter N, Semple JL:  

INVITED VISITS TO OTHER HOSPITALS/UNIVERSITIES

Brown MH:  
Southeastern Society of Plastic and Reconstructive Surgeons/Northside Hospital/American Society of Plastic Surgeons, Atlanta Breast Surgery Symposium, Atlanta, Georgia, January 2009.  (1) Texture versus smooth surface implants: Trends and rationales, (2) Vertical scar mastopexy with autoaugmentation of the upper pole, (3) Panel of Experts Member : Problem cases in breast surgery.

Brown MH:  

Brown MH:  

Brown MH:  

Brown MH:  
Canadian Society of Aesthetic Plastic Surgery, Montreal, Quebec, September 2008. Faculty.

Brown MH:  

Brown MH:  

Brown MH:  

Brown MH:  

Brown MH:  

Brown MH:  

Semple JL:  
Canadian Standards Association, Toronto, ON, March 2009. Smoke plume safety issues.
**RESEARCH AND INVESTIGATIONS**

*Senior Investigator’s Name Appears in Italics*


Advanced Regenerative Tissue Engineering Centre (ARTEC). The ARTEC program is based at Sunnybrook Health Sciences Centre (SHSC) in partnership with University of Toronto and APOTEC Research Inc., Rimon Therapeutics, Elastin Specialties and matRegen. Multiple projects and principal investigators (PIs) from Engineering, Basic Science and Surgery receive funding. Funds also support new laboratory space at the Sunnybrook site, new hires and network development. Semple JL, Woodhouse K, Sefton M, Shoichet M, Dumont D, Midha R, Fish J: Ontario Research Development Challenge Fund (ORDCF). ($12,568,500 2003 - 2008.)

Division of Urology

Dr. E.D. Grober  Assistant Professor

**PUBLICATIONS**


**INVITED VISITS TO OTHER HOSPITALS/UNIVERSITIES**

Grober ED: Solvay Pharma/Primary Care Physicians of the Greater Toronto Area, Toronto, ON, February 2009. Testosterone replacement therapy: An emerging link between metabolic syndrome and type 2 diabetes.


**RESEARCH AND INVESTIGATIONS**

Senior Investigator’s Name Appears in Italics

Canadian Urological Association scholarship. Grober E, Jewett MAS: Canadian Urological Association Scholarship Foundation. [$40,000 2008 - 2009.]

Male reproductive and sexual medicine digital video atlas. Grober ED, Jarvi KA: Lilly Canada. [$10,000 2008.]

**HONOURS RECEIVED**

Division of Anatomy

Michael J. Wiley

Chair

Dr. A. Agur  Professor
Dr. B. Ballyk  Senior Lecturer
Dr. S. Karimi-Abdolrezaee  Assistant Professor
Dr. P. Koeberle  Assistant Professor
Dr. C.M. Morshead  Associate Professor
Dr. J.A. Saint-Cyr  Professor
Dr. I.M. Taylor  Professor
Dr. M.J. Wiley  Professor (Division Head)

PUBLICATIONS


INVITED VISITS


Karimi S: Shiraz University, Shiraz, Iran, January 2009. Functional repair and plasticity of injured spinal cord.


RESEARCH AND INVESTIGATIONS

Anatomy glove and video. McKee P, Agur A: Education Development Fund, Faculty of Medicine, University of Toronto. ($10,000 2008 – 2009).


Approaches to self-repair: Characterizing the endogenous responses of neural stem cells following brain injury. Morshead C: Premier’s Research Excellence Award (PREA). ($100,000 2004 – 2009.)


Development of an in situ 3D computer model to investigate movement/stability characteristics of lumbar back muscles. Agur A: Dean’s Fund University of Toronto. ($10,000 2004 - 2009.)


In vivo monitoring of neural recovery following stem cell therapies to treat stroke. Stanisz G, Morshead C, Lobough N: Canadian Institutes of Health Research (CIHR). [$450,000 2007-2010.]


Regenerative medicine strategies for spinal cord injury repair: Integration of stem cell biology, nanotechnology, bioengineering approaches and neurosurgical application. Fehlings M, Morshead C, Van der Kooy D, Tator C: Canadian Institutes of Health Research (CIHR) - New Emerging Teams Grant. ($1,500,000 2004 - 2007.)

Regulating adult neural stem cells using in vivo and in vitro manipulation. Morshead C: Canadian Institutes of Health Research (CIHR). ($330,000 2005 - 2008.)

Stem cells to treat stroke: Morshead C, Kolb B, Weiss S, Miller F, Corbett D: Canadian Institutes of Health Research (CIHR) – Network for Centres of Excellence - Stem Cell Network. ($985,000 2005 - 2008.)

Stem cells to treat stroke. Weiss S, Morshead C, Kolb B, Miller F, Corbett D: Canadian Institutes of Health Research (CIHR) – Network for Centres of Excellence – Canadian Stroke Network. ($985,000 2005 - 2008.)

The development of drug and cell delivery systems for use in stem cell based therapies to treat stroke. Morshead C, Shoichet M, Corbett D: Heart & Stroke Foundation. ($405,000 2008-2011.)

The role of extracellular matrix in adult CNS neurodegeneration. Koebel P: Connaught New Staff Grant. ($10,000 2007 - 2008.)

The role of extracellular matrix interactions in adult CNS neuroprotection. Koebel P: Dean's Fund, University of Toronto. ($10,000 2007 - 2010.)

The role of extracellular matrix interactions in adult CNS neuroprotection. Koebel P: Connaught New Staff Matching Grant. ($30,000 2007 - 2009.)

The role of matrix metalloproteinases in adult CNS neuroprotection. Koebel P, Fehlings M: Canadian Institutes of Health Research (CIHR). ($257,217 2008 - 2011)


HONOURS AND AWARDS

Agur A: Occupational Therapy Alumni Achievement Award. June 2009

Agur A: Recognition Award for Excellence in Teaching and Mentoring Physical Therapy Students. June 2009


Taylor I: Dr. E. Mary Hollington Award. May 2009.

Wiley M: Harry Whittaker Memorial Award, Faculty of Medicine. May 2009.
Research In Education

Dr. G. Regehr  Professor
Dr. H. Carnahan  Professor
Dr. R. Sonnadara  Assistant Professor

PUBLICATIONS


INVITED VISITS TO OTHER HOSPITALS/UNIVERSITIES


Regehr G: Behavioral and Social Sciences Teaching in Medical Education, Annual Meeting, Cardiff, United Kingdom, November 2008. Plenary Address: It’s Not a rocket science: Rethinking our metaphors for professions education research.


Woods NN: Meeting of Theory Oriented Researchers, Bayfield, ON, July 2008. Seeking the best of both worlds in expertise research.


Causal knowledge and clinical reasoning. Woods NN: Dean’s Fund New Staff Grant. ($9,978 2007 – present.)

Documenting and disseminating the daily educational innovations of clerks: A pilot project in surgery. Woods NN, Mylopoulos M, Regehr G: Education Development Fund for Innovation in Education. ($20,000 2007 – 2008.)


Teaching the sensitive physical exam: An evaluation of student learning and retention. Woods NN, Cil T, Wright F: Education Development Fund for Innovation in Education. ($14,000 2008 – present.)


Cross Appointments

Dr. A.J. Baker [Anaesthesia]
Dr. B. Bapat [Laboratory Medicine and Pathobiology]
Dr. P. Birek [Dentistry]
Dr. A. Campbell [Medicine]
Dr. J. Carson [Family and Community Medicine]
Dr. W.A. Cassar-Demajo [Anaesthesia]
Dr. A. Daar [Public Health Sciences]
Dr. A. Damyanovich [Medical Imaging]
Dr. J.E. Davies [Dentistry]
Dr. A.D. DePetrillo [Obstetric and Gynaecology]
Dr. E. Diamandis [Laboratory Medicine and Pathobiology]
Dr. R.J. Eby [Medicine]
Dr. V.L. Fornasier [Laboratory Medicine and Pathobiology]
Dr. A. Fox [Medical Imaging]
Dr. J. Freeman [Otolaryngology]
Dr. R. Gilbert [Otolaryngology]
Dr. M. Greenberg [Pediatrics]
Dr. M.D. Grynpass [Laboratory Medicine and Pathobiology]
Dr. P.J. Gullane [Otolaryngology]
Dr. B. Harvey [Public Health Sciences]
Dr. J. Irish [Otolaryngology]
Dr. J. Irvine [Psychiatry]
Dr. G. Jackowski [Laboratory Medicine and Pathobiology]
Dr. M.G. Johnston [Laboratory Medicine and Pathobiology]
Dr. R. Kandel [Laboratory Medicine and Pathobiology]
Dr. W. Kucharczyk [Medical Imaging]
Dr. M. Lee [Anatomy]
Dr. G.A. Levy [Medicine]
Dr. C. Lumsden [Medicine]
Dr. A. McDonald [Medicine]
Dr. J. McGlade [Medical Biophysics]
Dr. D.A.G. Mickle [Laboratory Medicine and Pathobiology]
Dr. M. Milner [Rehabilitation Sciences]
Dr. W. Montanera [Medical Imaging]
Dr. J. Mullen [Laboratory Medicine and Pathobiology]
Dr. S. Narold [Public Health Sciences]
Dr. M. Ojha [Rehabilitation Sciences]
Dr. K.P.H. Pritzker [Laboratory Medicine and Pathobiology]
Dr. P. Ritvo [Public Health Sciences]
Dr. A. Romaschin [Laboratory Medicine and Pathobiology]
Dr. J. Rutka [Otolaryngology]
Dr. A. Slutsky [Medicine]
Dr. D. Stewart [Psychiatry]
Dr. R. Talwar [Dentistry]
Dr. K.G. terBrugge [Medical Imaging]
Dr. T. van der Kwast [Laboratory Medicine and Pathobiology]
Dr. Q. Wan [Physiology]
Dr. I. Weller [Public Health Sciences]
Dr. L. White [Medical Imaging]
Dr. R. Willinsky [Medical Imaging]
Dr. L. Wilson-Pauwels [Bio-Medical Communications]
Dr. I. Witterick [Otolaryngology]