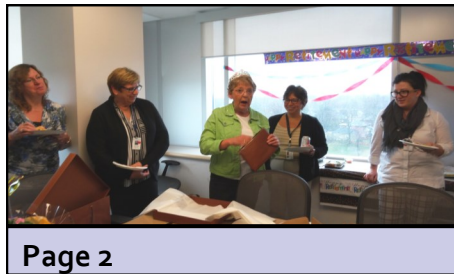


Western Urology News

Spring 2016

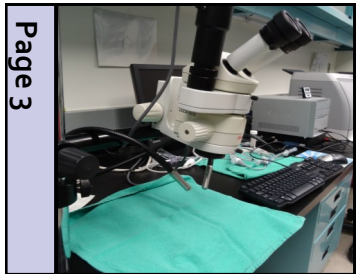


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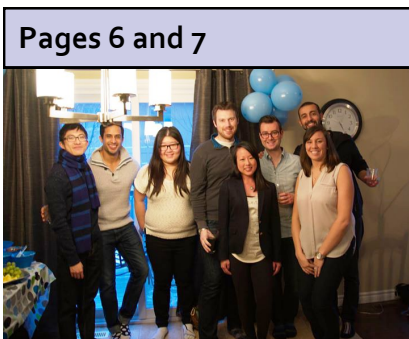


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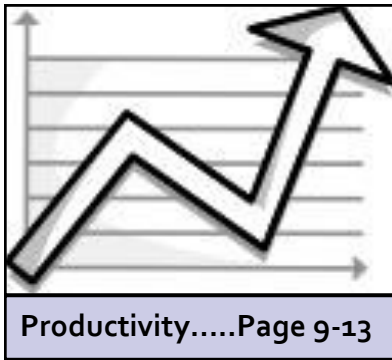
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Acknowledging Dr. John Denstedt's Tenure as Chair of the Department of Surgery



Dr. John Denstedt recently completed his successful tenure as Chairman of the Department of Surgery at Western University. This period in the Department's history was remarkable for its unprecedented growth and academic productivity. Over 50 clinical and basic science faculty were recruited to the Department during this period - an amazing statistic in an era marked by resource retraction and ongoing threats to academic medicine. This expansion of talent was experienced by all divisions within the department, and has resulted in programs with reputations that are the envy of surgical departments within Canada and beyond. This recruitment success did not happen by chance, but was the result of the vision and determination of Dr. Denstedt to grow the Department of Surgery into a group that could compete internationally with other programs to recruit the very best surgical talent. He did this by thoughtful assessment of the department's needs and the future direction of surgery, while forging collaborative relationships with the hospitals and university.

Dr. Denstedt's term was also notable for the evolution of a culture that facilitated academic productivity across the department in all facets of scholarly work. A number of important initiatives were undertaken during this time, including surgical education outreach activities in China and the Middle East, the creation of the Centre for Educational Research and Innovation (CERI), establishment of an Institute of Clinical Evaluative Sciences (ICES) node for London and a heightened level of research quality and impact. The academic bar was raised significantly during Dr. Denstedt's chairmanship.

The Division of Urology is very proud that one of our own has led the Department of the Surgery so skillfully this past 14 years, and we wish to thank Dr. Denstedt for his years of service and leadership.

Best Wishes to Linda Nott on Her Retirement!

After a career in healthcare spanning 40 years, Linda Nott retired April 1, 2016. Linda started her career as an operating room nurse working at the South Street campus of Victoria Hospital. She moved up the ranks eventually becoming the charge nurse for Orthopedics. After taking time off to raise her family she returned to healthcare as a clinical trials coordinator for the Division of Orthopedic Surgery at University Hospital. In 1994 she joined the Division of Urology at St. Joseph's Hospital as a research associate. During her 22 years working with our division, Linda became an indispensable cog in our division's research wheel. She supported clinical trial work serving as an important liaison with the university, granting agencies, industry and other research institutions.

Quite frankly, without Linda's attention to detail, work ethic and experience our Endourology program's academic productivity would never have been able to achieve all that it has. Linda was instrumental in mentoring a generation of Endourology fellows on the nuances of clinical research and helped prepare them for their academic careers. Her support to Drs. Denstedt, Pautler and Razvi in particular over the years was very much appreciated. Her no-nonsense approach to problem solving, research experience and sense of humor will be missed!

On behalf of the entire division we wish to thank Linda for her many years of devotion and service, and wish her and husband Peter a very enjoyable retirement!



Uro-Oncology Fall Review Update

Save the date!

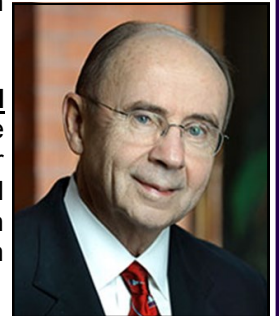
“Stratford with Dr. Pat Walsh, September 2016!”

The 2015 Annual UWO Uro-Oncology Fall Review was held at a new venue - Oakwood Inn, in Grand Bend, in September 2015 with Dr. Joel Nelson from Pittsburgh as one of the keynote speakers. Other guest speakers included Dr. Rodney Breau and Dr. Michael Leonard both from Ottawa and Dr. Andrew Evans, noted Uro-pathologist from the University of Toronto. The Uro-oncology speakers all gave thought-provoking and state-of-the-art lectures on prostate, bladder and kidney cancers. Dr. Leonard shared his experience of working at the Canadian Medical Protective Association and provided valuable insight for all Urologic practitioners.

The **2016 Uro-Oncology Review** will be our 20th Anniversary and will take place in **Stratford ON**, with the renowned **Dr. Patrick Walsh** from Johns Hopkins University as the keynote speaker. Dr. Walsh will give his personal account of the “discovery” of the neurovascular bundles and the development and refinement of his nerve sparing technique for radical prostatectomy. Still on a historic theme, Dr. Walsh will review the rich history of the Brady Urological Institute at Johns Hopkins University in Baltimore.



Dr. Andrew Stephenson from the Cleveland Clinic has also been confirmed as a guest speaker. Dr. Stephenson will share with us the vast Cleveland Clinic experience in Urologic Oncology. Other speakers are being confirmed, including our local multi-disciplinary faculty members.



Save the dates of **September 23-25, 2016**. It may be the last chance to informally meet and learn from Dr. Walsh, one of the most remarkable Urologists in the world.

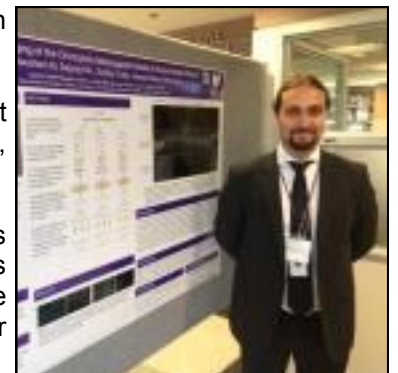
Division of Urology Researcher Dr. Sohrab Ali Qualifies for Western Masters' Thesis Competition

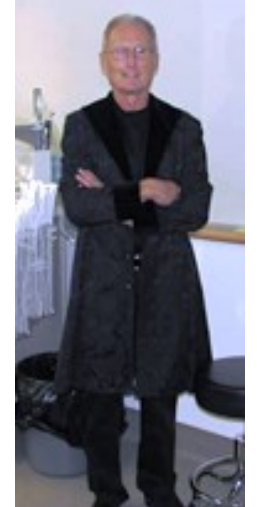
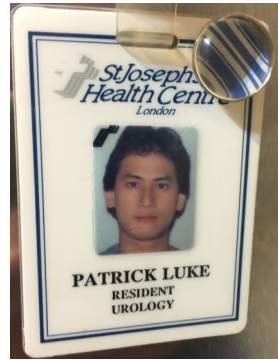
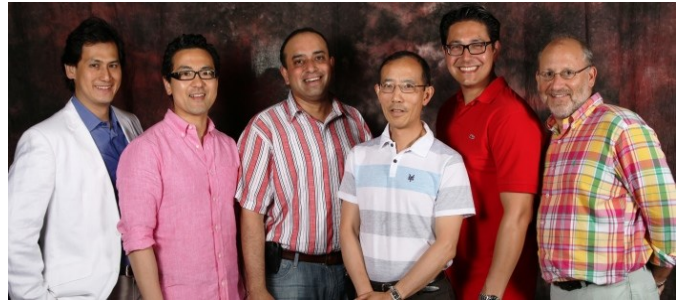
Communicating one's research in a short period of time is a daunting task for clinicians and researchers alike. The ability to assimilate and condense years' worth of data in a succinct and meaningful way can mean the difference between a successful or unsuccessful study. That is the basis for the “3-minute thesis competition”, a program devised to encourage advanced communication skills for scientific researchers. Originally developed in Queensland University, Australia, the competition has now spread to over 200 universities worldwide including Western.

Contestants perform in 3 heats, beginning with internal and then moving on to interfaculty competitions with the top 20 contestants moving onto a university wide event. Students have exactly 3 minutes and one static slide to make the most impact on an intelligent yet research lay audience. The competition is fierce, with contestants participating from many faculties across campus.

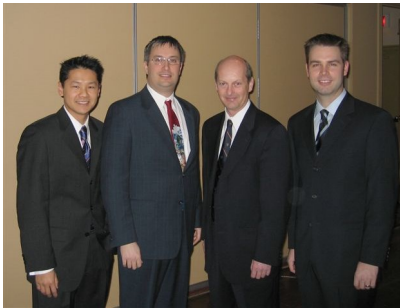
This year, Dr. Sohrab Ali, currently enrolled in the Masters' of Surgery program at Western and working in Dr. Hon Leong's laboratory, was successful in the first rounds, and in fact made it into the top 20 students across the entire university!

Dr. Ali found the experience invaluable and felt it definitely helped to hone his presentation skills. It was also an excellent opportunity to network with other students and to hear about the amazing research they are also involved in. On behalf of the Division of Urology we congratulate Dr. Ali on his achievement and for representing our research program so well.





THROWBACK THURSDAY!



ALUMNI SPOTLIGHT

Upon completing my urology training at Western in 1995 I found myself unemployed thanks to the then newly elected premier Mike Harris. My big dreams of practicing in Southern Ontario were stifled by the looming threat of Hospital closures. The vacant positions at various hospitals disappeared. I found my way East to Sydney, Nova Scotia more by accident than intention. The position was originally offered to my good friend and residency partner Dr. Charlie Williams. It seemed too good to be true, four days of operating room time per week and more work that I could imagine. I would be one of two urologists for an encashment population of 150,000. The hospital was not a year old and all the equipment was new and current. I started in my new position in January 1996. The work was non-stop and the pathology was endless. It was somewhat of a baptism by fire. I credited my ability to manage my new practice to my many mentors in London. What seemed like relentless, high-expectation training as a resident was a blessing in disguise.

In spite of my initial intentions of only relocating here as a temporary career move, I quickly became part of the establishment. In 1998 that was blessed with the arrival of my son, Quentin and then again in 2000 with my daughter Stephanie, my two greatest accomplishments.

Urologists came and went and the area continued to be chronically under-served. In late 2013 we finally built our complement to three, civilizing the pace. After 10 years in practice I became active in the hospital administration. I have been a member of and chaired various committees and held positions including the Chief of Surgery. In 2014, I was recognized by Prostate Cancer Canada Atlantic with the Local Hero Award for my contribution to the management of prostate cancer. In April 2015 I became Chief of Staff for the complex (4 hospitals) which has provided an interesting diversity to my practice.

The community in which I live is truly beautiful. I live amongst rolling hills surrounded by Ocean. The East Coast hospitality is real, and the lobster is delicious (best eaten cold). The people are friendly and appreciative, the community is safe. It has been a great place to raise a family. We have all the amenities including a ski hill, sailing, a Major Junior hockey team, and numerous world-class golf courses. Only three hours away is a race track where I can fulfill my obsession of Porsche Performance Driving. The only thing that has changed since residency is the horsepower.

I am grateful for the rewarding career that I have had, and the wonderful place that I live. I have to thank Charlie for declining this job! More so, I have a great deal of gratitude for my mentors; the late Jack Wyatt and Phil Hayman, Joe Chin, John Denstedt, Eric Shepherd, Jack Sales and Hassan Razvi, who prepared me well for what I have been able to do.

Thank you gentlemen, *Dale Miller*

Alumni News.... I am currently in my clinical year of a Uro-Oncology fellowship in Bethesda, Maryland and NIH. Raydelle (my niece) is headed to college with four acceptances already - she is deliberating between a few programs/places. Jayden is in middle school and starring in the school play and swimming competitively. We are all doing well. My fellowship is fantastic with more research, thought and learning than I could have imagined with the most fantastic teachers. *Shawna Boyle*



What's New With the Residents?

Nahid and Farah Punjani
August 1, 2015



Garson Chan and Jessica Szeto
August 2, 2015



Victor McPherson
and Jennifer Mutrie
August 22, 2015

Meet....Grayson Douglas Campbell born
February 20, 2016
to proud parents Jeff and Jillian



Victor McPherson who was awarded a PSI Foundation resident research grant in PGY3: "A window of opportunity study to evaluate the role of the combination of metformin and simvastatin as a neoadjuvant therapy in invasive bladder cancer". The grant is meant to help fund a pilot single arm phase II clinical trial evaluating the combination of metformin and simvastatin as neoadjuvant therapy in patients with invasive bladder cancer prior to cyst-ectomy. \$50,000 has been received so far, secured 3 separate grants to date.

Goodbye and Best Wishes!



It's hard to believe how fast 5 years have flown by. It has been a challenge, a great reward and certainly an experience that I won't soon forget. I feel very fortunate to have been able to complete my training at Western. I cannot express how grateful I am for the tremendous support and mentorship of all the staff and for the friendship of my co-residents. As I get ready to move to Calgary for a Reconstructive Urology fellowship I know I will always look back fondly on my time at Western. *Adiel Mamut*

As I sit writing this, I am still in disbelief that 5 years have come and gone. Residency has been so rewarding and challenging and it has taught me many things. Thank you to all the staff who believed in me and have always supported me. I am so fortunate to have been mentored by the best. I have made lasting friendships with many residents and I can't thank them enough for all their support. I won't forget that pizza and champagne Fridays can make a week better! To Kim and all the administrative staff, thank you for all the help. I will be moving on to an oncology fellowship at Yale and I am so excited for this next phase of my career. This is an adventure I'll never forget – thank you. *Stephanie Tatzel*



From the Program Directors

As we draw closer to the end of this academic year, we celebrate the success of another two of our fantastic residents who can now clearly see the end of their journey of residency training. Dr. Stephanie Tatzel and Dr. Adiel Mamut have both done an exceptional job throughout their five years in the program and have been great role models for all junior residents. Stephanie will be jumping south of the border to pursue a fellowship at Yale University in Oncology. Adiel is moving out west to pursue a fellowship in Genitourinary Reconstruction at the University of Calgary. We wish them all the best in these new adventures and know that they will continue to make us proud as they move forward with their careers! In this time of goodbyes, we are also delighted to welcome our three new PGY1 residents to the Western Urology family. Jeff Law will stay in London after completing medical school at Western, whereas Heena Singh and Samir Sami will be joining us from the University of Calgary. We look forward to working with them!

Each year, we build upon our thriving residency program to ensure that it meets the growing needs of our trainees to ensure their success as future urologists. As we get closer to the implementation of the Competency By Design evaluation paradigm set by the Royal College of Physicians and Surgeons of Canada, it will be increasingly important that we are prepared for this transition. We have proactively taken steps to implement new changes to our program so our residents are well prepared for their post-residency years. New for this year, we have implemented a hands-on cadaver surgery simulation lab, increased the clinical Urology exposure during the PGY2 year to nine months and enabled greater access to a wider range of community Urology rotations and electives in collaboration with our exceptional and dedicated colleagues in Windsor, Sarnia and Niagara. Several of our residents have been successful in a variety of research and clinical endeavors. Stephanie Tatzel (PGY5) was nominated for the Dr. John D. Brown Award which recognizes a postgraduate trainee who displays excellence in patient-centred care and who reflects the values and practices of Dr. John Brown, who always put his patients first. We congratulate Victor McPherson (PGY4) for being awarded a competitive provincial grant from the Physicians' Services Incorporated for his clinical randomized trial in muscle invasive bladder cancer. We applaud Jeff Campbell (PGY4), David Mikhail (PGY3) and Roderick Clark (PGY1) for being awarded travel grants from the Division of Urology to present their research at national and international conferences. Two of our residents are pursuing graduate degrees during their residency programs—Nahid Punjani (PGY2) is completing his Masters of Public Health in Clinical Epidemiology at Harvard University and Harmenjit Brar (PGY1) will be the first Urology resident to go through the Masters in Surgery program at Western University. We eagerly look forward to hearing about both of their successes.

As always, Kim Nitz, our Program Administrator, has helped to keep the ship sailing in the right direction and we thank her for all her hard work and dedication to our residency program. It has been an absolute pleasure to work closely with all of the residents this year and to always strive to improve our already fantastic program. We look forward to another year of success for our dedicated, caring and talented group of residents.

Alp Sener and Sumit Dave

Joining the team this year...

Jeffrey Law

(Western University)

Heena Singh

(University of Calgary)

Samir Sami

(University of Calgary)

Welcome !!



Fellows Update

One year ago, I was at the JK Wyatt Urology Research Day sitting next to one of you, reading this same section. In the mean time, I have finished my Endo-urology fellowship and moved back

to Belgium, where I started my practice in an academic hospital. My clinic and OR have been full from day one, thanks to the great colleagues and secretaries I have here—almost as good as the ones I had while in London. Next to them, I also miss Tom Horton’s ...a lot. My practice consists mainly of endourology, with about 70% stone disease. I continue to build on my experience and the great teachings of Dr. Denstedt, Dr. Pautler and Dr. Razvi and have even done a 15 French perc recently. My wife, once a nurse, now runs a store in children and baby’s clothing in Bruges together with a Belgian friend we met in Canada (www.littleadhemar.com) - we also ship to Canada :) Although they were already tremendously cute, this does benefit the general appearance of my daughters I am hoping to drop by London in the not to distant future.

Thomas Tailly



Over a year has gone by since I came back Italy to start a new job. I still remember the great sadness that I felt when I left Canada, leaving a piece of my heart in such a wonderful country. I am currently a consultant urologist at the University of Eastern Piedmont in Novara and my practice is urologic oncology and robotic surgery. Since I came back to Italy I started a whole new life with my partner Luisa, and we are currently looking for a nice house to start a family. I had such an amazing time in London, and I miss it every day. My experience at Western was great and it turned out to be a life fulfilling experience with memories that will never be forgotten! I recently met Dr. Chin at the EAU conference in Munich and we spent some time together visiting and remembering the days at Vic with Dr. Chin, Dr. Izawa, Dr. Power and the girls of the research team. I owe so much to those three amazing guys. Working with them helped me to consolidate the fundamentals of my current practice, including research, teaching and training of the residents. I wish all the best and good luck to all of you!

Michele Billia

Farewell to the Fellows

Andrology:

It has been a wonderful experience working here in London (SJHC) and I have learned many new things which I am sure will give my professional career new height and I am sad at the same time, as I will have to leave this great department and friends, and go back to my work at Hamad



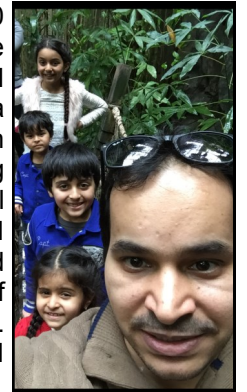
medical corporation (Qatar). I would like to take this opportunity to thank all my colleagues, especially Kim and Susan, for making my stay such a rewarding and worthwhile experience, and to let you all know how much I have enjoyed my time here. Thank you for all the support, insights, and help that you have provided me over the past year. Also I extend my heartfelt gratitude to Dr. Brock for his support, valuable advice, and the skills

that I learned from him. I will miss you all greatly, and I'd love to keep in touch.

Raidh Alzubaidi

Endourology:

WOW!! I cannot believe how fast two years can go by! I still remember the first day I came to work in July 2014 and everyone was so ready to help. I also remember when we had our fifth child, Fajer, on July 10 of that same year and how all were astonished by how big my family is. I guess I'm blessed to have such a lovely family and to have friends from all over the world – and now including the lovely country of Canada. We all enjoyed our stay in Canada and I particularly enjoyed working and learning under the super-vision of world renowned urologists, Dr. Denstedt, Dr. Razvi and Dr. Pautler. I



will miss working with all the urology staff - doctors, clinic and OR nurses, and the administrative staff. I will go back to Kuwait and start my career in Adan hospital and Sabah



Al-Ahmad Urology Tertiary center. My practice will be focused mainly on endourology & minimally invasive surgery including robotic surgery. I look forward to continuous clinical and research collaboration and support from my mentors on both personal and institutional levels. Finally, THANK YOU to all my Canadian mentors and friends.

Husain Alenezi

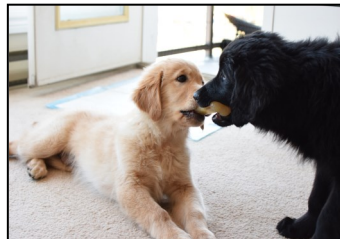
I am very excited to be moving to my hometown of St. Catharines to start my own practice with a fantastic group of urologists in Niagara in July. I have enjoyed my fellow-



ship and extra training with Dr. Pautler, Dr. Razvi, and Dr. Denstedt immensely and will miss all of the wonderful staff and residents in London greatly. On a personal note we have 2 exciting additions to our family – our lively and

dear puppies George and Sophie who are keeping us extremely busy and are both hoping to get a backyard when we move. Best wishes to everyone and please keep in touch!

Marie Dion



These lines are not enough to express my gratitude to all those who directly or indirectly contributed in two excellent and unforgettable years. Thank you very much Alp, Hassan, John, and Stephen for your teachings and sound advice. The time spent has allowed me to grow as a urologist. Thanks to all of the residents who made me feel at home, as well as all the department staff and the OR nurses. We will miss London for sure, and all the people we met here. We were a family of three when we first came to Canada, Yelile, Lucia and

Daniel... and we leave as a family of four, with Elias - our precious Canadian winter gift. Our destination is Monterrey, a large city in northeast Mexico, our hometown, to keep on working, apply what I've learned, and start my private practice... if you ever feel the need to escape the cold, come visit to Mexico...*Daniel Olvera-Posada*

Transplantation and Kidney Surgery:

I definitely enjoyed my time here in London. The team I worked with is absolutely phenomenal, they supported me all the way throughout the whole journey and taught me various methods that improved my career. I plan on returning to Doha, Qatar. We have an Organ Transplantation program in Doha, and I plan to expand it. Future goals include adding DCD and pancreas transplant programs. Finally, I would like to thank all of my fellow colleagues & friends in this faculty, which made my time here truly memorable.

Thanks, *Omar Ali*



Uro-Oncology:



I have had such a great time here at Western, first as a resident and now as a fellow. I am eternally grateful to Dr. Izawa, Dr. Chin, Dr. Power and Dr. Pautler for not only letting me stay as a fellow, but for their constant support and mentorship. I have been allowed to grow and develop so much this year, and as my time here grows shorter, each opportunity to learn from them becomes all that more invaluable. Thank you from the bottom of my heart. Thank you to Khurram for putting up with me this year. You have also taught me so much, and I wish you and your family all the best in your future endeavours! In terms of my plans for "next year", I am happy and excited to announce that I will be joining the Urology Department at Scarborough Hospital in July, and my practice will have an emphasis on Uro-Oncology. Also in terms of plans, Ryan, James and I will be welcoming one more into the family sometime this month (because you can never have too many things happening at once). In summary, I will miss everyone dearly and so please visit if you are ever in Toronto!

Kim-Chi Tran

Division Productivity 2015 (Jan-Dec)

Honours and Awards

Dr. Gerald Brock

- Vice President, Canadian Urological Association
- SMSNA Essay Prize, Sexual Medicine Society of North American Annual Meeting

Joseph Chin

- Reviewer of the Year, European Urology

Dr. John Denstedt

- Section's Distinguished Service Award, The NorthEastern Section of the American Urological Association
- Chair, Finance Audit Committee, American Urological Association

Dr. Jonathan Izawa

- Chair, Canadian Urological Association Scholarship Funds
- Chair, Redefining Residency: Competency-Based Medical Education and the Future of Postgraduate Training in Canada. Harvey Club of London.
- Chair, Scientific Council, Canadian Urologic Association

Dr. Patrick Luke

- Urology Residents' Teaching Award, Schulich School of Medicine & Dentistry

Dr. Hon Leong

- Prostate Cancer Canada/Movember Rising Star Award (#2)
- Lawson/Department of Surgery Institute Scientist Award

Dr. Stephen Pautler

- Southwest Regional Surgical Oncology Lead, Cancer Care Ontario

Dr. Nicholas Power

- Academic Medical Association of Southwestern Ontario (AMOSO) Provincial Innovation Award
- Surgery Clerkship Faculty Teaching Award, Schulich School of Medicine & Dentistry

Dr. Hassan Razvi

- Member, Board of Directors, Endourology Society
- Secretary-Elect, Canadian Urological Association
- President, Surgical Research Administration Inc.
- Best Poster, Dr. Robert Zhong Department of Surgery Research Day, Schulich School of Medicine & Dentistry, Western University

Dr. Gregor Reid

- 2015 Media Interviews: Superhuman Radio, Wired magazine, Health magazine, Good Housekeeping magazine, the American/Dutch magazine, The Optimist, Men's Journal, Townsend Newsletter USA, Globe and Mail, Good Life magazine, Focus Newsletter, Allergy Research Group USA, Next magazine, National Public Radio USA, CBC Marketplace

Dr. Blayne Welk

- Northeastern Section's Nominee for 2016 AUA Research Forum

Grants

Academic Medical Organization of Southwestern Ontario (AMOSO):

- Transplantation of Microbes of Fecal Origin for Prevention and Treatment of Metabolic Syndrome and Non Alcoholic Fatty Liver Disease* (\$116,000) PI: Silverman M, Co-Investigators: J. Burton, A. Rahman, et al
- Investigating drug resistance using the chick chorioallantoic membrane model* (\$97,500) PI: N. Power
- Western ambient temperature and health research (WeATHeR) program at ICES* (\$169,095) PI: D. Fraser, Co-Investigator: B. Welk

Canadian Cancer Society Research Institute:

- Identification and characterization of tumour-initiating cells in clear cell renal cell carcinoma* (\$191,800) PI: L. Ailes, Co-Investigators: H. Leong, H.J ewitt
- MR-guided focal laser thermal ablation for prostate cancer therapy*(\$419,820) PI: A.Fenster, Co-Investigators: J. Chin, G. Bauman, A. Machado
- Program for Image-guided Minimally Invasive Surgery and Therap (PI-MIST)* (\$2,274,483) PI: T.P eters, Co-Investigator: S. Pautler
- Nanocomposite coatings for advanced ureteral stent* (\$225,000) Co-Investigator: J. Denstedt
- Vaginal microbiome team* (\$75,000) PI: D. Money, Co-Investigator: G. Reid

Canadian Urologic Oncology Group. *Achieving the Oligometastatic State in End-Stage Prostate Cancer by Pharmacologic and Genetic Manipulation of Invadopodia formed by Tumor Cells* (\$50,000) PI: J.I zawa, Co-Investigators: K. Siddiqui, H. Leong, A. Chambers, J. Chin

Department of Surgery Internal Fund for Clinical Academics *Water jet dissection of cavernous nerves: nerve injury* (\$20,000) PI: S. Pautler, Co-Investigators: G. Brock, H. Alenezi, L. Deyoung

Publications

FirstKind Limited Research. *The effect of neuromuscular stimulation on post-transplant leg edema* (\$62,500) PI: **A.Sener**

Kimberly Clark Corporation. *Prebiotics for vaginal health* (\$60,000) PI: **G.Reid**

Lawson Health Research Institute (LHRI):

- i) *A window of opportunity study to evaluate the role of the combination of metformin and simvastatin as a neoadjuvant therapy in invasive bladder cancer* (\$20,000) PI: **J. Izawa**, Co-Investigators: V. McPherson, **J. Chin**, **N. Power**
- ii) *The impact of gut and renal microbiota on the Drosophila melangaster model of human nephrolithiasis* (\$15,000) PI: **J. Burton**, Co-Investigators: **H. Razvi**, **H. Leong**, S. Naushad

Masonic Foundation of Ontario. *Bone-specific drug delivery for advanced prostate cancer patients* (\$25,000) Co-PIs: **J.Chin** and **H.Leong**

Natural Sciences and Engineering Research Council (NSERC). *Deciphering Lactobacillus functionality* (\$33,000) PI: **G.Reid**

Ontario Neurotrauma Foundation (ONF). *Urohealth Summit 2016* (\$20,000) PI: **B.Welk**

Patient-Centred Outcomes Research Institute. *Patient reported outcomes for bladder management strategies in spinal cord injury* (\$2,702,708) PI: J. Myers, Co-Investigator: **B. Welk**

Physician's Services Incorporation Foundation:

- i) *Immunologic Impact of CORM in renal transplantation* (\$168,509) PI: **P. Luke**, Co-Investigator: R. Bhattacharjee
- ii) *A window of opportunity study to evaluate the role of the combination of metformin and simvastatin as a neoadjuvant therapy in invasive bladder cancer* (\$20,000) PI: **J. Izawa**, V. McPherson

Royal College of Physicians and Surgeons of Canada (RCPSC). *Harvey Club of London: Medical Artifact Collection at Wester - A 'past, present and future' look at medical history objects* (\$1,000) PI: **J.I zawa**

Saskatchewan Health Research Foundation, Collaborative Innovation Development Grant. *Prostate cancer microparticles as a next generation screening tool for prostate cancer: a pilot study* (\$23,000) PI: J. St.Onge, Co-Investigators: **H. Leong**, T.Burton

Schulich School of Medicine & Dentistry, Collaborative Research Seed Grant. *Peptides specific for glypican-3 as next-generation imaging tools for improved non-invasive imaging of hepato-cellular carcinoma* (\$41,680) PI: **H. Leong**, Co-Investigators: T. Lee, J. Koropatnick, L. Luyt, C. Pin

Society of Urodynamics, Female Pelvic Medicine & Urogenital Reconstruction (SUFU) Neuromodulation Grant. *A randomized trial of trans-cutaneous nerve stimulation for neurogenic bladder patients* (\$25,000) PI: **B.Welk**

St. Joseph's Health Care Foundation. *Determination of microbiome and metabolome biomarkers of kidney stone formation* (\$26,624) PI: **H.Razvi**

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