

Pathology Post

Fall 2012

Welcome

We would like to welcome our new graduate students who began our programs in September;

Kevin Cheung, MSc Candidate
Supervisor: Dr. Michael Strong

Richard Filek, MSc Candidate
Supervisor: Dr. Cindy Hutnik

Nathan Johnston, MSc Candidate
Supervisor: Drs. Wei-Ping Min and Xiufen Zheng

Michael Ruiz, MSc Candidate
Supervisor: Dr. Subrata Chakrabarti

Shayan Shekari, MSc Candidate
Supervisor: Dr. Michael Shkrum

Mena Gaed, MSc Candidate
(part-time)
Supervisors: Drs. Madeleine Moussa and Aaron Fenster

Oral and Maxillofacial Graduate Program

Dr. Jacqueline Cox, MSc Candidate
(part-time)
Supervisors: Drs. Tom Daley and Mark Darling

Pathologists' Assistants Graduate Program

Rebecca Mantha, Julie Montgomery, Satwinder Multani, Jenna Strong

Congratulations to our newly cross-appointed faculty members

Dr. Jonathan Izawa
- Associate Professor / MD - Home
Department of Surgery (LHSC VH E2-649)

Dr. Sunil Parapuram - Assistant
Professor / Institute Scientist - Home
Department of Ophthalmology

Dr. Sameer Elsayed, our newest
0.5 FTE Medical Microbiologist



Ana Pena
started her Masters degree in January 2013 in **Dr. S.**

Chahrabarti's lab. Ana was a lab tech student at Westervelt who did her placement in the Oral Pathology lab in 2011.

Congratulations



Congratulations to **Dr. Candace Gibson** - selected as winner of the Association of Faculties of Medicine Canada 2013 Infoway, e-Health Award.



Congratulations to **Dr. Zia A. Khan** - who received a promotion to Associate Professor with tenure effective July 1, 2013.

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Congratulations

Emily Keats received the Queen Elizabeth II Graduate Scholarships in Science and Technology 2012-2013.

Emily Keats abstract, entitled "High levels of glucose cause cell cycle arrest and skew the differentiation of mesenchymal progenitor cells", was accepted for platform presentation at the 15th CDA/CSEM Professional Conference and Annual Meetings, Vancouver, BC (October 2012).

Yuexiu Wu, PhD Candidate with Dr. Subrata Chakrabarti has completed her degree. The thesis is entitled: "Role of ERK5 in Diabetic Vascular Complications"(ETD#1749).

James Yip, MSc Candidate with Drs. Zhu-Xu Zhang and Tony Jevnikar has completed his degree. The thesis is entitled: "Regulation of NK cell-mediated tubular epithelial cell death and kidney ischemia-reperfusion injury by the NKR-P1B receptor and Clr-b" (ETD #2353).

Connor MacMillan, MSc Candidate with Drs. Ann Chambers and Alan Tuck has completed his degree. The thesis: The Role of non-canonical Wnt/planar cell polarity signaling in breast cancer progression (ETD#2356)

Dr. Tommy Fok, MSc Candidate with Dr. Mark Darling has completed his degree. The thesis: "Immunohistochemical Studies of Expression and Correlation of Osteopontin, CD44, and Integrin $\alpha V\beta 3$ in Selected Benign and Malignant Salivary Gland Tumours" (ETD#2344). The theses above have been published within the Scholarship@Western Electronic Thesis and Dissertation Repository.

<http://ir.lib.uwo.ca/etd/999>

Awards



Emily Keats (Supervisor **Dr. Zia A. Khan**) and **Michael Ruiz** (Supervisor **Dr. Subrata Chakrabarti**) were awarded the First Prize for Best Poster Presentation at the 3rd Annual Diabetes Research Day (November 13, 2012).

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Awards



This year's Dr. M. E. Kirk teaching award was presented to **Dr. Michael Shkrum**. The M. E. Kirk teaching Award was inaugurated in 2006 by the Department of Pathology at Western University, to commemorate Dr. Mary Ellen Kirk.

This annual teaching award is for excellence in resident education and is given by the residents to an individual who best exemplifies the following qualities with respect to resident education: dedication, enthusiasm, excellence, availability, approachability, knowledge and mentorship. Dr. Shkrum has undoubtedly demonstrated all these qualities and many more over the past few decades. Dr. Shkrum has remained a vital part of the Department of Pathology since 1985. He is currently a Professor in Pathology, Director of regional forensic pathology unit (Southwestern Ontario), Director and Principal Investigator, Motor Vehicle Safety (MOVES) research team and Medical Leader, autopsy services, London Health Sciences Centre, St. Joseph's Health Care, Ontario, Canada.

His love for teaching is appreciated and experienced not only by his own residents, but is well known across the province and country and has led to numerous invited lectures.

The 2012 London Pathology Associates Staff Awards were presented to **Lynn James** and **Sue Ford**. The pathologists have recognized the extraordinary efforts and contributions that these two have made to the department for many years. Lynn has anchored the Neuropathology Service, taking care of and introducing many new innovations to its administrative, educational and research aspects. Sue is extremely skilled in dealing with the vast array of tasks required in pathology reception. They both go "above and beyond the call of duty" to the benefit of all in the department. They always have a positive attitude, a very professional demeanor, and they are a pleasure to work with. Well done Sue and Lynn.



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Awards

Frederick N. Lewis Memorial Prize. Awarded annually to the student with the highest mark in the Pathology 3240a course. We had a tie in the academic year of 2012-2013, therefore the prize was awarded to both **Inhae Park** and **Mark Trinder**.

Announcements

Dr. Victor Prabhakaran has decided to step down as Medical Director, Clinical Laboratories in the Department of Pathology and Laboratory Medicine (London Laboratory Services Group). Dr. Prabhakaran will continue in his role as Medical Leader, Immunology & Biochemistry. Thank you Dr. Prabhakaran for your leadership and dedication to the labs over the past year.



Effective January 1, 2013, **Dr. Robert Lannigan** will assume the role of Medical Director, Clinical Laboratories. Dr. Lannigan

will oversee activities of Immunology & Biochemistry, Microbiology, Transplant Immunology, LHSC Pulmonary Function and Hematology.

Grants

Khan ZA and Chakrabarti S. The effects of curcumin and its synthetic analogues on chronic diabetic complications. Canadian Institutes of Health Research; China-Canada Joint Health Research Initiative. \$224,700.00

We were very pleased to have been awarded

Canadian Institutes of Health Research - \$756,000
A Randomized Clinical Trial of Selective Laser Trabeculoplasty - June 2012
(SLT) in Medically Uncontrolled Open Angle Glaucoma Patients - Funded
Who had Been Previously Treated with Complete SLT
Applicants: PI Dr. W. Hodge
Co Investigator: **Drs. C.M.L. Hutnik**

We have become internationally recognized for our work on selective laser trabeculoplasty in the management of glaucoma. This grant will further the worldwide understanding of this therapeutic modality.

Dr. Hutnik has invited some of her colleagues from across Canada to be involved which will render this RCT national and multi-centered. Patient enrollment begins in January 2013.

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Graduate News

Schulich - Pathology Lecture Series on Thursday, November, 15th. We would like to extend a thank you to **Dr. Zia Khan, Michael Ruiz, and Nathan Johnston** for presenting our graduate program to prospective graduate students. We would also like to thank Emily Keats and Wahab Khan for being available to speak with interested students.

We had a full house, and **Dr. Khan** gave an excellent presentation giving an overview of graduate school and our programs, and he clearly helped define expectations, giving data and statistics.

We even have had students requests for his PowerPoint presentation for future reference. Thanks so much Zia!!!

The Pathologists' Assistant Lecture will be held on Tuesday, January 22nd at 4:00 p.m. in Medical Sciences Building, room 148. Dr. Nancy Chan will be giving an overview of the program to prospective graduate students.

On October 25th, Dr. Nancy Chan and Tracey Koning travelled to Toronto to propose a partnership with the University of Toronto and to find out if they would be interested in taking two students in the 2nd year of the program. The University of Toronto has responded and has agreed to take two students in 2014. The PA Graduate Committee will be busy preparing for the new partnership.

Publications

Keller BA, Volkening K, Droppelmann CA, **Ang LC**, Rademakers R, Strong MJ.

Co-aggregation of RNA binding proteins in ALS spinal motor neurons: evidence of a common pathogenic mechanism. *Acta Neuropathol.* 2012 Nov;124(5):733-47.

Neumann M, Valori CF, Ansorge O, Kretzschmar HA, Munoz DG, Kusaka H, Yokota O, Ishihara K, **Ang LC**, Bilbao JM, Mackenzie IR. Transportin 1 accumulates specifically with FET proteins but no other transportin cargos in FTLD-FUS and is absent in FUS inclusions in ALS with FUS mutations. *Acta Neuropathol.* 2012 Nov;124(5):705-16.

Chen S, Chakrabarti R, **Keats EC**, Chen M, **Chakrabarti S**, **Khan ZA**. Regulation of vascular endothelial growth factor expression by extra domain B segment of fibronectin in endothelial cells. *Invest Ophthalmol Vis Sci.* 2012;53:8 333-8343.

Publications

Chetty R, Gill P, Govender D, Bateman A, Chang HJ, Deshpande V, **Driman D**, Gomez M, Greywoode G, Jaynes E, Soon Lee C, Locketz M, Rowsell C, Rullier A, Serra S, Shepherd N, Szentgyorgyi E, Vajpeyi R, Wang LM, Bateman A. International study group on rectal cancer regression grading: Inter-observer variability with commonly used regression grading systems. *Hum Pathol* 2012;43:1917-23.

Chetty R, Santos EB, Bateman A, Chang HJ, **Driman D**, Duthie F, Gomez M, Govender D, Jaynes E, Lee S, Locketz M, Mescoli C, Roswell C, Rullier A, Serra S, Shepherd N, Szentgyorgyi E, Vajpeyi R, Wang LM. A multi-centre survey on pathological processing of colorectal cancer treated by neoadjuvant chemoradiation. *Virchows Archiv* 2012;460:151-5.

Sey MS, Gregor J, Adams P, Khanna N, Vinden C, **Driman D**, Chande N. Wait times for diagnostic colonoscopy among outpatients with colorectal cancer: A comparison with Canadian Association of Gastroenterology targets. *Can J Gastroenterol* 2012;26: 894-896

Vilos GA, **Ettler HC**, Marks J, Viloas AG, Abu-Rafea B. Granulosa Cells in the Uterosacral Ligament: Case Report and Review of the Literature *J Minim Invasive Gynecol*. 2012 Sep;19(5):572-4.

Kleiman A, **Keats EC**, Chan NG, and **Khan ZA**. Elevated IGF2 prevents leptin induction and terminal adipocyte differentiation in hemangioma stem cells. *Exp Mol Pathol*. 2012;94:126-136.

Welten CM, **Keats EC**, **Ang LC**, and **Khan ZA**. Hemangioblastoma stromal cells show committed stem cell phenotype. *Can J Neurol Sci*. 39, 821-827, 2012.

Forte T, Lockwood GA, **McLachlin CM**, Fekete S, Bryant HE. A first look at participation rates in cervical cancer screening programs in Canada. *Curr Oncol* 2012 Oct;19(5):269-71.

Kirsch R, Messenger DE, Riddell RH, Pollett A, Cook M, Al-Haddad S, Streutker CJ, Divaris DX, Pandit R, Newell KJ, Liu J, Price RG, Smith S, **Parfitt JR**, **Driman DK**. Venous Invasion in Colorectal Cancer: Impact of an Elastin Stain on Detection and Interobserver Agreement Among Gastrointestinal and Nongastrointestinal Pathologists.

Roach EE, Chakrabarti R, **Park NI**, **Keats EC**, **Yip J**, **Chan NG**, and **Khan ZA**. Intrinsic regulation of hemangioma involution by platelet-derived growth factor. *Cell Death Dis*. 3: e328, 2012.

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Publications

Ramsay DA, Ramos Medina V, Palomo Gomez I, Palomo Rando JL. "Microscopic Forensic Pathology of Head Injury," in Practical Manual of Forensic Histopathology. Blanco Pampin J and Salguero Villadiego M (eds.), Nova, New York, 2012

MacMillian CD, Chambers AF, **Tuck AB**. Progression of early breast cancer to an invasive phenotype. Breast Cancer Metastasis and Drug Resistance - Challenges, Progress and Prospects. Chapter 8; pp 143, 2013.

Weir MM. A Review of Peritoneal Washings: Diagnostic Challenges and Pitfalls. Can J Pathol 2012 4:93-100.

Abstracts

Darling M, Wilkins E, Park N, Hashem N, and **Khan ZA**. Human kallikrein expression in mucoepidermoid carcinomas. Presented at the 2012 XXIX International Congress of the International Academy of Pathology, Cape Town, South Africa, 2012.

Keats EC and **Khan ZA**. High levels of glucose cause cell cycle arrest and modify Wnt signalling to skew the differentiation of mesenchymal progenitor cells. Presented at the 2012 CDA/CSEM Professional Conference and Annual Meetings.

Mortuza R. and **Chakrabarti S**. Glucosed exposed SIRT mediated alterations in microvascular endothelial cells. Presented at the 15th CSEM/CDA professional conference and annual meeting in October in Vancouver, BC.

Presentations

M. Tadros, B. Coleman, S. Haider, L. Johnston, H. Iacovides, **M. John**, K. Katz, N. Laffin, C. Lee, A. McGeer, S. McNeil, J. Powis, E. Rubinstein, S. Smith, K. Suh, G. Taylor, C. Watt, V. Williams A. Simor. Epidemiology, Outcome and Characterization of Isolates Associated with Methicillin Resistant Staphylococcus aureus (MRSA) Pneumonia in Canadian Hospitals. ID Week 2012, Infectious Disease Society of America (IDSA), San Diego, CA. October 17-21, 2012.

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Presentations

McLean, Carolyn. Case 1: Follow-up on gallbladder with cholelithiasis, "limy bile", and focal mucosal calcification. Case 2: Embryonal (undifferentiated) sarcoma of the liver. * Case Presentations. Scientific Presentation. Ontario Gut Club. 2012/11/30.

McLachlin CM. Update on national cervical screening activities. Invited Lectures. Continuing Medical Education. 2012/11/09.

Kirsch R, Messenger DE, Riddell RH, Pollett A, Cook M, Al-Haddad S, Streutker CJ, Divaris DX, Pandit R, Newell KJ, Liu J, Price RG, Smith S, **Parfitt JR, Driman DK.** Venous Invasion in Colorectal Cancer: Impact of an Elastin Stain on Detection and Interobserver Agreement Among Gastrointestinal and Non-Gastrointestinal Pathologists. Abstract Presented. International Academy of Pathology Meeting. 2012/10.

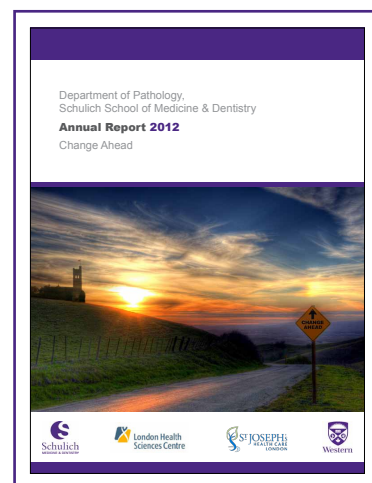
Parfitt, Jeremy. Dysplasia versus Adenoma in Surveillance of Cancer Patients with Inflammatory Bowel Disease. Invited Lectures. Continuing Medical Education. Southwestern Ontario Regional Surgical Association Annual Conference. 2012/11/16.

Other News

On November 22nd a Fifth Avenue Jewellery Party was held in the MSB Lobby. 10% of the proceeds went to the United Way!

Our very own **Linda Jackson** (Oral Pathology) was the winner of the hostess gift raffle!

Congratulations Linda!



The 2011/2012 Annual Report will be available the beginning of January.

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Other News



Way to go Pathology!

The "Food Drive Challenge" had the Department of Pathology winning the challenge by a landslide with a whopping 16822 points and a very generous donation to the London Food Bank.

Pathology beat out LHSC Diagnostic Imaging with 3501 points and LHSC Information Technology Solutions with 2542 points. Well done!



Department of Pathology's Annual Christmas Potluck took place on December 19th 2012.



SAVE the DATE for the Upcoming Cytopathology Symposium

"Practice of Cytopathology - Recent Advances"

Date: Saturday April 6, 2013

Time: 08:15 am - 3:30 pm

Location: London Health Sciences Centre - University Hospital

This meeting is organized by Department of Pathology, Western University and London Health Sciences Centre. Commercial sponsors are Hologic and LifeLabs.

Other News



Bonnie Adamson
President and Chief Executive Officer

Dear colleagues,

This afternoon, the Canadian Institute for Health Information (CIHI) publicly released the hospital standardized mortality ratio (HSMR) results for hospitals across Canada. This is the sixth year that CIHI is releasing these results. We strongly support the public reporting of quality indicators such as HSMR because we believe it will improve performance, enhance patient safety, and support transparency in Ontario hospitals

The HSMR for LHSC in 2011/2012 based on the methodology is 108. The HSMR for LHSC is trending down and is consistent with our Quality Improvement Plan goal for the year.

The HSMR is calculated as a ratio of the number of actual deaths to the number of statistically expected deaths. The HSMR is based on diagnosis groups that account for about 80 per cent of in-hospital deaths in Canada. This measure excludes patients whose most responsible diagnosis is palliative care. The HSMR is adjusted for various factors that may influence in-hospital mortality, such as patient demographics, co-morbidities, diagnosis and how the patient arrived at the hospital. HSMR compares a hospital's mortality rate with the national average and is an important tool in improving patient care.

Next Steps

The report will be shared with the Medical Advisory Committee and the Quality and Patient Safety Committee to examine the results and determine further quality improvement. There are 4 specific areas of focus:

- 1) Review Surviving Sepsis Campaign results and identify additional opportunities to improve management of patients with sepsis
- 2) Conduct patient cohort specific analysis to identify possible clinical care performance improvement opportunities
- 3) Assess and improve data quality as it applies to HSMR
- 4) Enhance current death review process

My goal is to ensure LHSC offers ultra-safe patient care and we are committed to implementing a number of strategies to reach the highest level of quality and patient safety possible. As always I believe the solutions to the challenges we face are in the hearts and minds of the people at LHSC and I welcome your ideas.

Other News



Please donate!

Because 1 in 9 women will develop breast cancer... I am busting a move for breast health, and I need your support.

We have all, in some way, been touched by breast cancer; a family member, friend, neighbour or colleague. Because of this, I am sure we can agree that these special people deserve a world-class Breast Health Centre that will offer less waiting, quicker answers and better care ... all in one location.

This is why I am dedicating my time and effort and am taking part in London's first ever Bust a Move for breast health on April 6, 2013.

Bust a Move is more than an event – it is a movement – that is spreading across the nation. It is an emotionally uplifting, personally rewarding and distinctly unique opportunity to support breast health in Southwestern Ontario. Funds raised through this event will be directed to the new Breast Care Centre at St. Joseph's Health Care London.

My goal is to raise \$1,000, so as a friend I am asking you to take Bust a Move with me and give generously to this life-saving cause.

Follow my link to visit my personal web page and help me in my efforts to support St. Joseph's Health Care Foundation.

<http://bustamove.kintera.org/faf/donorReg/donorPledge.asp?ievent=1022743&supid=372140073>

Mair Hughes

Remember to keep the
good news items coming!

Please send your submission to Susan Stewart
susan.stewart@schulich.uwo.ca
Department of Pathology
Schulich School of
Medicine & Dentistry Western University