

Pathology Post

Summer 2012

Welcome



Joanna Walsh, MD, Assistant Professor, Anatomical Pathologist. Dr. Walsh completed her residency in Ireland in 2011 and a fellowship in gastrointestinal and gynecological pathology at Mount Sinai Hospital in Toronto.



Martin Duennwald, PhD, Assistant Professor. Dr. Duennwald received his PhD at the Max-Planck Institute in Cologne Germany in 2001. He comes to us from the Boston Biomedical Research Institute in Massachusetts, where he has been researching the role of protein misfolding in ageing and other human diseases.

George Zahariadis, MD, Associate Professor, Medical Microbiologist, effective September 1, 2012. Dr. Zahariadis is coming to us from Alberta, where he was a Clinical Associate Professor at the University of Alberta and Medical Microbiologist at the University of Alberta Hospital, Stollery Children's Hospital Microbiology Laboratory and the Alberta Provincial Laboratory for Public Health.

Welcome to **Dr. William Stecho** (Western University 2012) and **Dr. David Marquez Garcia** (Facultad de Ciencias Medicas Matanzas "Juan Guiteras Gener") successful Anatomical Pathology PGY1 residents. Welcome to both of you!

Farewell



Nancy Conron retired after 25 years in the department. Former secretary to the Chair/Chief, her bubbly personality will be missed in the pathology hallways. Nancy has retired to a new home in Belleville Ontario on Lake Ontario. Her future plans include enjoying her young grandchildren and spending time on the water in her new peddle boat. Congratulations Nancy! We'll miss you.



To **Dr. Hector Li Chang** who after his success with the RCPSC exam, has moved on to complete a Fellowship at Toronto General Hospital – and

to Escort (Essie) Mwamwenda-Heinrich (AP3) who has transferred to the Northern School of Medicine in Sudbury for Family Medicine.

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Dr. Lee Cyn Ang - Schulich Excellence in Education Award (Postgraduate).



Mair Hughes - Dean's Award of Excellence for Staff.

Dr. M. Daria Haust was invited to attend "THE SIXTH M. DARIA HAUST LECTURE" of the Department of Pathology and Molecular Medicine at Queen's University on May 15th, 2012. The Lecturer, Dr. Michael F. Allard, Professor of Pathology at the University of British Columbia, spoke on: "Metabolic phenotype of the hypertrophied heart."

Dr. M. Daria Haust was reappointed at the rank of Professor to the Adjunct (Group 1) academic staff in the Department of Pathology & Molecular Medicine at Queen's University, Kingston, Ontario, for the 2012/2015 (three) academic years.

Dr. M. Daria Haust was awarded the Queen Elizabeth II Diamond Jubilee Medal of the Governor General of Canada at a special presentation ceremony of the Diamond Jubilee Gala, Roy Thomson Hall, Toronto, on June 18th, 2012.

We are delighted **Rui Ni** won the award for the Best Poster Presentation at the Department of Medicine's Research Day on May 24, 2012.

On July 21, **Mike Graves** received the Lloyd A. Kennedy Pathologists' Assistant Award at the Pathologists' Assistants Conference held during the 63rd Annual Scientific Meeting of the Canadian Association of Pathologists in Calgary. This award was established in 2007 and is funded by the Department of Pathology and Molecular Medicine at Queen's University and the Kingston General Hospital.

The award recognizes a Pathologists' Assistant in good standing who has made outstanding contributions to continuing professional development in the area of medical laboratory practice. Mike's knowledgeable and caring interaction with staff and students has certainly fostered a learning environment in our Department. He continues to play an integral role in ensuring the success of the Pathologists' Assistant Graduate Program. Congratulations to Mike!

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Drs. Alan Tuck and Subrata Chakrabarti would like to thank everyone for a wonderful Pathology Research Day 2012 and would like to congratulate the Winners.

Chair's Award for Best Presentation by a Resident - **Dr. Emily Filter**



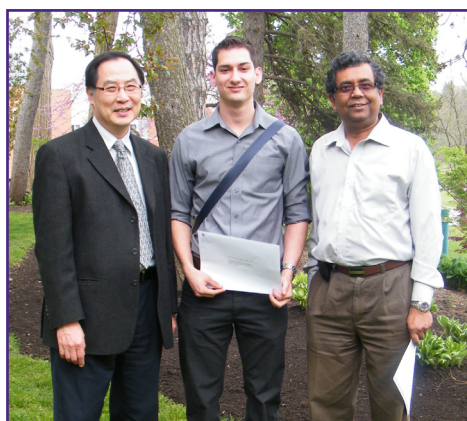
Second Place Award for Best Presentation by a Resident
- **Dr. Iram Siddiqui**



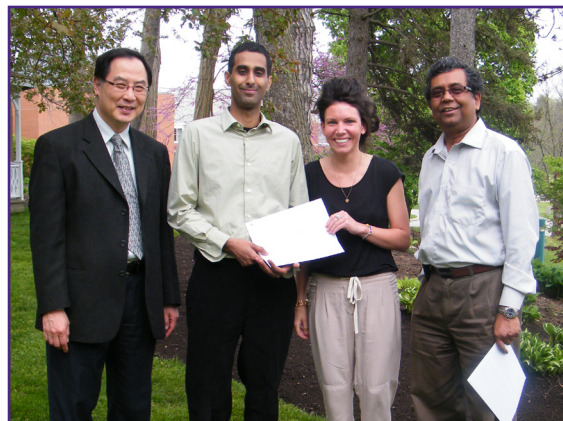
Dr. M. Daria Haust Award for Best Presentation by a Graduate Student
- **Emily Keats**



Second Place Award for Graduate Students - **Arthur Lau**



Poster Presentation Award for a Graduate Student - **Alex Pavlosky**



Dr. Cameron Wallace Graduate Student Award in Pathology
- **Wahab Khan & Emily Keats**

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As a memorial tribute to Harvey F. Sullivan, President and Chief Executive Officer of Victoria Hospital from 1986 to 1989, the former Victoria Hospital Foundation established the Harvey F. Sullivan Memorial Scholarship Program. This program is made possible through an endowment fund from the Harvey F. Sullivan Estate.

This year, **Dr. Jessica Shepherd's** son Dominic was awarded the Family Scholarship –

Dominic Shepherd Mohammed is currently enrolled in the

Bachelor of Science in Kinesiology program at Western University and aspires to be a sports physician. He is a member of the Scholars' Electives program, a prestigious supplementary academic module, where he works on a self-directed research project mentored by a cardiologist at London Health Sciences Centre.

As well he is a member of the Faculty of Health Sciences student council and the power to change program. On student council he is a part of a sub-committee that is creating a video to advertise the unique experience offered by the Faculty of Health Sciences and also assists with many council events throughout the school year. While in high school he was heavily involved in clubs, associations and athletics and won a variety of awards for his academic, athletic and volunteer accomplishments, including the Ontario Principal's Award for Student Leadership given to a graduating student who has shown leadership to the school throughout their four years. Mohammed has a great love of physical activity and dedication to sports, demonstrated by his years of involvement in competitive soccer as a player, coach, camp counselor and volunteer. In addition to his numerous hours volunteering with soccer-related activities Mohammed is also a volunteer at the London Intercommunity Health Centre where he works with youth who are immigrants to Canada. He also mentors and serves as a positive role model to two 13-year old boys as part of the Ethno-Racial Youth Mentorship program. He was nominated by the Rotary Club of London to be the London representative in the "Adventure in Citizenship" program where he spent a week in Ottawa gaining a deeper understanding of Canadian history and politics. Mohammed is described as a multi-talented young man with an extremely strong work ethic who shows outstanding leadership ability with a balance of firmness, empathy and willingness to help others.

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Graduate Student Research Excellence Rewarded



The School congratulates **Di Chen**, PhD Candidate in **Dr. Wei-Ping Min's laboratory**, was awarded the Gold medal at the 2012 Canadian Health Research Forum in Winnipeg, Manitoba. This event provided a venue for health research trainees across Canada to present their work, network and be recognized for the excellence of their contributions. This event features research posters, awards of excellence, tours and social events, and a symposium on a cross-disciplinary scientific themes by some of the world's leading scientists in that field. Di was one of 10 Schulich graduate students who attended this meeting.

http://umanitoba.ca/faculties/medicine/research_days/

Below is the link for the competition which was held in Manitoba: http://umanitoba.ca/faculties/medicine/research_days/CIHR.html

More than 125 trainees from 15 medical school across the country participate in this event and there are 12 gold medal winners this year. We are proud to have you as a grad student in The Department of Pathology!

Congratulations

Mike Trela (our Dentistry Storeskeeper) and his wife Mary Kate are the proud parents of their second child, a baby girl - Molly Jennifer, born on May 20th @ 9:00 pm. Both mom and baby are doing well.

Dr. Alan Tuck, has been promoted to Full Professor.

Dr. Weiping Min (Institute Scientist, Departments of Surgery and Pathology), promotion to Full Professor.

Dr. Chandan Chakraborty, promotion to Associate Professor and granting of tenure.

Dr. Tianqing Peng (Institute Scientist, Departments of Medicine and Pathology), promotion to Associate Professor and granting of sequential term appointment.

Wahab Khan (Knoll-Rogan laboratories), who passed his PhD comprehensive exam on May 24, 2012.

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Residents



Congratulations to **Dr. Murad Aturkustani**, Neuropathology, **Dr. Adina Irimies**, Anatomical Pathology and **Dr. Hector Li Chang**, all of whom successfully passed their RCPSC exams.

Research Based Program

Congratulations to; **Andrew Pepper**, PhD Candidate, Supervisor Dr. David White, completed his PhD Examination and is now doing his Postdoctoral Fellowship at the University of Alberta.

Edwin Chau, MSc Candidate, Supervisors Drs. Tom Daley and Douglas Hamilton completed his MSc degree and he is still in the Oral Maxiofacial Residency Program.

The students below have been awarded an Ontario Graduate Scholarship which is for one full year in the amount of \$15,000.00. They are;

Phaedra Henley, Supervisor **Dr. Jack Bend**

Wahab Khan, Supervisor **Dr. Joan Knoll**

Matthew Riopel, Supervisor **Dr. Rennian Wang**

Graduate Student Updates

To All Grads. The Graduate Student Publication of the Month is up, please send along congratulations to Gobi Thillainadesan--Biochemistry, Brandon Disher--Medical Biophysics, **Emily C. Keats** - Pathology, and Ernie Ho - Physiology & Pharmacology. Well done! Sincerely, Graduate Affairs
http://www.uwo.ca/schulich/gradstudies/current/student_research.html

Pathologists' Assistant Graduate Program



We have received notification from the National Accrediting Agency for Clinical and Laboratory Sciences (NAACLS) that our submitted Progress Report has been reviewed and has been accepted as Satisfactory, we will receive final notification when The Board of Directors meet in September. **Rebecca Ellis**, **Kathryn Greenall**, **Sonia Sant** and **Emily Wilkins** have completed their MSc degree requirements for our program. Both Rebecca and Emily were hired as PAs at the Grand River Hospital in Kitchener, Ontario. Katie, was hired as PA at Kelowna General Hospital, British Columbia. Sonia is taking some time off.

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Grants



Dr Wei-Ping Min, MD., PhD Professor of Surgery, Pathology, and Oncology. CIHR grant was successfully funded (\$305,000 over next three years) in the March competition.

The title is "Concurrent gene silencing of multiple TLR signaling pathways using targeted nanoparticles for DC-mediated immune tolerance in heart transplantation". Heart transplantation is currently the only possible procedure that is performed for the prevention of an end-stage heart failure. Implanted grafts, however, are identified as foreign invaders and are exclusively attacked by our immune systems, resulting in transplant heart rejection. While rejection can be prevented by the use of immunosuppressive drugs, these drugs possess many potential adverse effects and also reduce one's ability to fight against various infections and cancer, putting transplant patients at increased risk. Moreover, these anti-rejection drugs are toxic, expensive and need to be taken for the life time of the heart transplant patient. Thus, it is crucial to develop a new anti-rejection treatment without the need for and the continuous use of immunosuppressive drugs. The objective of this proposed research is to develop a new method to stop an immune response so that the transplanted heart graft will not be rejected. We proposed to use an advanced blocking method called siRNA to block the detector molecules. siRNA is 1000 times more powerful than any other methods that are being used in clinics and laboratories. First, we will create different siRNA that can specifically inhibit TLR genes. Next, we will test the efficacy of preventing graft rejection after blocking the detector TLR molecules. The recipients will be treated with siRNA following a heart transplantation. Finally, we will investigate the mechanism underlining siRNA-based anti-rejection in heart transplantation. The success of this study will lead to a new anti-rejection treatment, which does not require adhering to toxic and expensive immunosuppressive drugs on a daily basis. The patients will no longer suffer adverse effects of the drugs and will not live under possible occurrences of infections and cancers. Therefore, significantly improving the patient's quality of life after heart transplantation.

Gabril M. The Clinicopathological Characteristics, Immunohistochemical Profile and Prognosis of Clear Cell Papillary Renal Cell Carcinomas Pathology Internal Funds for Academic Development (PIFAD) \$5000.00 2012/05 - 2014/04

Tuck A. Improved models of human breast cancer via primary tissue tumor grafting: establishment of a city-wide resource for translational breast cancer research. London Regional Cancer Program Small Grants for Cancer Research and Training. \$22,696.00 2012/07 - 2013/07

Rizkalla K. Undergraduate Medicine Summer Student Project Schulich School of Medicine & Dentistry, Undergraduate Medical Education Office \$5000 2012/05 - 2012/08

Publications

Burneo JG. neurocysticercosis: a foreign parasite looking for a permanent resident status. Can J Neurol Sci 2012; 39 (3): 269-70

Caragea M, Allevato P, Hamm C, Xu, J, **Rizkalla K.** In-situ mantle cell lymphoma: a case report of a new entity in the field of haematopathology. Can J Pathol. 2012; 4(1) 29-31. IHC/FISH picture on J cover.

Casserly CS, Salmon A, **Ramsay DA,** Pelz DM, Lownie SP, Strong MJ. Multiple cerebral infarcts in patient with Moyamoya disease. Can J Neurol Sci. 2012 May;39(3):378-82

Chandok N, Speechley M, Ainsworth PJ, **Chakrabarti S,** Adams PC. The impact of population-based screening studies on hemochromatosis screening practices. Dig Dis Sci. 2012 May;57(5):1420-2

Chang HH, Leeper WR, Chan G, Quan D, **Driman DK.** Infarct-like necrosis: a distinct form of necrosis seen in colorectal carcinoma liver metastases treated with perioperative chemotherapy. Am J Surg Pathol. 2012 Apr;36(4):570-6.

Chen V, Duggan M, Khetani K, **McLachlin CM, Weir MM.** Celebration of Cytology in Canada: From the Last 50 Years to the Next. Can J Pathol 2012 14:50-3.

Hunter G, Young GB, **Ang LC.** Bickerstaff's Brainstem Encephalitis Presenting to the ICU. Neurocrit Care. 2012 May 24. [Epub ahead of print]

Keats E and **Khan ZA.** Unique responses of stem cell-derived vascular endothelial and mesenchymal cells to high levels of glucose. PLoS ONE 7: e38752, 2012.

Keats EC and **Khan ZA.** Vascular stem cells in diabetic complications: evidence for a role in the pathogenesis and the therapeutic promise. Cardiovasc Diabetol 11(1): 37, 2012.

Kleiman A, **Keats EC, Chan NG, Khan ZA.** Evolution of hemangioma endothelium Experimental and Molecular Pathology, 93 (2012) 264-272

Lehmann KJ, Jason R. Kovac JR, **Xu J,** Fischer MA. Isodicentric Yq mosaicism presenting as infertility and maturation arrest without altered SRY and AZF regions. J Assist Reprod Genet. 2012 Jun 24. [Epub ahead of print] PMID:22729464

Publications

Li Chang H, Leeper WR, Chan G, Quan D, **Driman DK**. Infarct-like Necrosis: A Distinct Form of Necrosis Seen in Colorectal Carcinoma Liver Metastases Treated With Perioperative Chemotherapy Am J Surg Pathol 2012;36:570–576)

Li R, X Zheng, I Popov, X Zhang, H Wang, M Suzuki, RD Necochea-Campion, PW French, D Chen, L Siu, RD Inman, and **Min W**. Gene silencing of IL-12 in dendritic cells inhibits autoimmune arthritis. J Translational Med 2012;10:19

Loeb I, Mok A, Lan Z, **Liu W**, **Garcia B**, Sener A. Supplemental hydrogen sulphide protects transplant kidney function and prolongs recipient survival following prolonged cold ischemia-reperfusion injury by mitigating renal graft apoptosis and inflammation BJU International

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.

Mandzia J, Andrade D, Jenkins M, Burneo JG. and the Western Evidence-Based Neurology Group Temporal Lobe Epilepsy and Hippocampal Stimulation

Martin CB, Mirsattari SM, Pruessner JC, Pietrantonio S, **Burneo JG**, Hayman-Abello B, Köhler S. Déjà Vu in Unilateral Temporal-Lobe Epilepsy is Associated with Selective Familiarity Impairments on Experimental Tasks of Recognition Memory Neuropsychology, 2012, In Press

Messenger DE, **Driman DK**, Riddell R, McLeod R, Kirsch R. Is venous invasion in colorectal cancer an under-reported finding among Canadian pathologists? Results of a population-based survey of Ontario pathologists Can J Pathol 2012;4:46-49

Murphy J, Kennedy EB, Dunn S, **McLachlin CM**, Fung Kee Fung M, Gzik D, Shier M, Paszat L. Cervical Screening: A Guideline for Clinical Practice in Ontario. J Obstet Gynaecol Can. 2012 May;34(5):453-8.

Murphy J, Kennedy EB, Dunn S, **McLachlin CM**, Fung Kee Fung M, Gzik D, Shier M, Paszat L. HPV Testing in Primary Cervical Screening: A Systematic Review and Meta-Analysis. J Obstet Gynaecol Can. 2012 May;34(5):443-52.

Pepper AR, Craig P, Hasilo CW, Melling J, Mazzuca DM, Vilck G, Guangyong Z, **White DJG**. The Islet Size to Oxygen Consumption Ratio Reliably Predicts Reversal of Diabetes Post-Transplant. Cell Transplantation. 2012 In Press.

Publications

Pepper AR, Welch I, Bruni A, MacGillivray A, Mazzuca DM, **White DJG**, Wall W. Establishment of a Stringent Large Animal Model of Insulin-Dependent Diabetes for Islet Auto-Transplantation: Combination of Pancreatectomy and Streptozotocin. *Pancreas*. 2012 In Press

Prout AP, Frasch MG, Veldhuizen R, **Hammond R**, Matuszewski B, et al. The Impact of Intermittent Umbilical Cord Occlusions on the Inflammatory Response in Pre-Term Fetal Sheep. *PLoS ONE* 7(6): e39043. doi:10.1371/journal.pone.0039043

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.

Sen S, **Chen S**, **Feng B**, Iglarz M, **Chakrabarti S**. Renal, retinal and cardiac changes in type 2 diabetes are attenuated by macitentan, a dual endothelin receptor antagonist *Life Sci*. 2012 Apr 13. [Epub ahead of print]

Sen S, **Chen S**, **Feng B**, **Wu Y**, Lui E, **Chakrabarti S**. Preventive effects of North American ginseng (*Panax quinquefolium*) on diabetic nephropathy *Phytomedicine*. 2012 Apr 15;19(6):494-505. Epub 2012 Feb 10

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Su Y, Huang X, Wang S, **Min W**, Yin Z, Jevnikar AM, Zhang ZX. Double negative Treg cells promote nonmyeloablative bone marrow chimerism by inducing T-cell clonal deletion and suppressing NK cell function. *Eur J Immunol*. 2012, 42(5):1216-25.

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Tellez-Zenteno JF, Ronquillo LH, Jette N, **Burneo JG**, Nguyen DK, Donner EJ, Sadler M, Javidan MM, Gross DW, Wiebe S; Canadian Epilepsy Surgery Study Group Discontinuation of antiepileptic drugs after successful epilepsy surgery: A Canadian survey *Epilepsy Res* 2012, May 5. [Epub ahead of print]

Publications

Tuck A. The use of Osteopontin as an Adjunct to CA125, for the detection of ovarian carcinoma in patients with a pelvic mass, in Epithelial Ovarian Cancer and Healthy Women International Journal of Fertility & Sterility

Vilos GA, Marks J, **Ettler HC**, Vilos AG, Prefontaine M, Abu-Rafea B. Uterine Smooth Muscle Tumors of Uncertain Malignant Potential: Diagnostic Challenges and Therapeutic Dilemmas. Report of 2 Cases and Review of the Literature. J Minim Invasive Gynecol. 2012 May;19(3):288-95.

Wang C, George B, **Chen S, Feng B**, Li X, **Chakrabarti S**. Genotoxic stress and activation of novel DNA repair enzymes in human endothelial cells and in the retinas and kidneys of streptozotocin diabetic rats Diabetes Metab Res Rev. 2012 May;28(4):329-37.

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Ward AD, Crukley C, McKenzie CA, Montreuil J, Gibson E, Romagnoli C, **Gomez JA, Moussa M**, Chin J, Bauman G, Fenster A. Prostate: Registration of Digital Histopathologic Images to in Vivo MR Images Acquired by Using Endorectal Receive Coil Radiology. 2012 Jun;263(3):856-64.

Xu J, Xenocostas A, Lazo-Langner A. Acute myeloid leukemia with promyelocytic morphology lacking RARA rearrangement and with double minutes, MY deletion and 2 cell lines of amplification of MY region: case report and literature review. J Hematopathol. 2012 July 4. DOI: 10.1007/s12308-012-0155-7.

Zhang ZX, **Min W**, Jevnikar AM. Use of RNA interference to minimize ischemia reperfusion injury. Transplant Rev 2012, 26 (2):140-55.

Zhu JX, **Gabril MY**, Sener A A. rare case of recurrent urinary obstruction and acute renal failure from cystitis cystica et glandularis. Can Urol Assoc J. 2012 Apr;6(2):E72-4.

Abstracts / Presentations / Posters

Burneo JG Epilepsy Summit: Go for Zero: A realistic Target for Patients with Epilepsy? 1. Debate: When should video-EEG be considered in a patient with epilepsy: early vs. late? (Early position) 2. Workshop: Semiology 2012/05/25

Burneo JG. Debate: Zero seizures can be achieved with the right antiepileptic treatment Canadian Neurological Sciences Federation 2012/06/08

Burneo JG. Update on Epilepsy 2012/06/13

Caragea M, McRae S, Marshall K, Joseph M. Utility of Endobronchial Ultrasound-guided Fine Needle Aspiration Biopsy (EBUS-FNAB) in Evaluating Lung Carcinomas, LHSC Experience and Lessons Learned. Residents Research Day Presentation 2012/05/04

Delport J. Comparison of two Rapid Membrane Immunoassays and the Illumigene LAMP for the detection of *Clostridium difficile* CACMID-AMI Canada 2012 Annual Conference, May 3-5, 2012, Vancouver, BC CACMID-AMI Canada 2012/05/03

Howie R, **John M**, Clark J. Assessing the impact of bedpan processing modifications and environmental cleaning education on hospital hand hygiene Community and Hospital Infection Control Association Canada 2012 National Education Conference, June 16-21, 2012, Saskatoon, Saskatchewan

Jacques, R, Shkrum MJ. Hospital Autopsy Quality Control and Assurance: The London Health Sciences Centre Experience Annual Pathology Research Day Department of Pathology, London Health Sciences Centre/Western University 2012/05/04

Joseph M. Skin rash - How to avoid a non specific diagnosis? A multidisciplinary approach. Invited lecture to primary care physicians at Chatham Kent Health Alliance, Chatham 2012/06/08

Khan WA, Chisholm RA, Taddayon SM, Subasinghe A, Samarabandu J, Johnston LJ, Norton PR, Rogan PK, **Knoll JHM**. Relating centromere topography in fixed human chromosomes to α -satellite DNA and CENP-B distribution. (Abstract, Session III, New Technologies, platform presentation). The 50th Annual Great Lakes Chromosome Conference. Toronto, May 17-18, 2012.

Milburn S, Conkey B, Peters G, Schofield S, Standon B, Stuart JI, **John MA**, **Lannigan R**, **Hussain Z**, **Delport J**. Comparison of Two Rapid Membrane Immunoassays and the Illumigene LAMP for the Detection of *Clostridium difficile*. American Society for Microbiology (ASM) 112th General Meeting, June 16-19, 2012, San Francisco, CA

Abstracts / Presentations / Posters

Milburn S, Conkey B, Peters G, Schofield S, Standon B, Stuart JI, **John M, Lannigan R, Hussain Z, Delport J.** Comparison of two Rapid Membrane Immunoassays and the Illumigene LAMP for the detection of *Clostridium difficile* American Society for Microbiology 112th General Meeting, June 16-19, 2012, San Francisco, CA

Milburn S, Conkey B, Peters G, Schofield S, Standon B, Stuart JI, **John M, Lannigan R, Hussain Z, Delport J.** Comparison of two Rapid Membrane Immunoassays and the Illumigene LAMP for the detection of *Clostridium difficile* CACMID-AMI Canada 2012 Annual Conference, May 3-5, 2012, Vancouver, BC

Navarro B, Zhang X, Zheng X, **Parfitt J,** Jevnikar A, Hernandez R, Wal WI, Min W, Quan D ICAM-1 shRNA Attenuates Liver Injury After Warm Ischemia Reperfusion International Liver Transplantation Society (ILTS) 2012/05

Siu, VM, **Xu, J.** 2012. A father with de novo PKD and a balanced t(16;19)(p13.3;q13.4) and the son had PKD and TSC and der(16); finding of de novo dormant condition needs consideration of possible balanced rearrangements. Abstract for 2012 ACMG Annual Clinical Genetics Meeting, March 27-31, 2012, Charlotte, NC.

Siu, VM, **Xu, J.** 2012. Two boys with gain of SORCS1 gene and developmental delay; is SORCS1 duplication clinically significant? Abstract for 2nd Annual ISCA Consortium Conference, Bethesda, MD, May 21-22, 2012

Xu, J. Cytogenomic aspect of morphologic acute promyelocytic leukemia without the classic t(15;17) translocation; diagnostic implication. Abstract for the 50th Great Lakes Chromosome Conference, Toronto. May 17-18, 2012

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Reminders

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**Pathology
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deadline is
coming up
this Friday
Sept. 14, 2012**



Remember to
keep the
good news
items coming!

Please send your submission to
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Western University