

COMMENTS FROM THE CHAIR

WHAT IS A PHYSICIAN SCIENTIST IN PATHOLOGY AND LABORATORY MEDICINE?

A physician scientist in Pathology and Laboratory Medicine is a laboratory physician who is trained in both scientific investigation and in pathology and/or laboratory medicine, with or without subspecialty training. The reason to train physician scientists is dual. On the one hand, the physician scientist brings the rigors of scientific investigation into the patient care arena and on the other hand, the physician scientist's contact with disease brings clinically relevant questions into the research arena to drive investigations into pathogenesis, prevention, diagnosis, prognosis and treatment of disease. In addition, physician scientists form a core group who can instill the core values of academic laboratory medicine into medical students and young trainees.

Who better to study disease than those who know it intimately? Who better to provide clinical care than those who have a facility with problem solving, hypothesis testing, and critical thinking? Both clinical care and research benefit enormously from this cross fertilization of knowledge and critical thinking. In fact, it is not uncommon that normal biological processes become better understood from the study of the pathobiology of disease. In addition, the physician scientist is perfectly suited to the role of a transmitter of basic and clinical knowledge, especially new and emerging knowledge. The linking of high quality teaching with innovative high impact research is a very powerful educational approach to prepare medical students and residents for self directed learning that will serve them throughout their career.

Health care is undergoing dramatic changes as biomedical research and technology allow us to critically explore prevailing paradigms and discover new knowledge to advance new paradigms. In addition, much more consideration is being given to social, cultural, and outcome parameters of health care delivery. Pathology and laboratory medicine has led the way in the past several years to chart the new frontiers of academic medicine - in teaching, research, and clinical care. In the clinical sphere, advanced laboratory technologies are being developed and adapted to diagnose disease earlier, more accurately and with a greater ability to predict outcomes. These new technologies provide laboratory physicians additional important information that improve clinical consultations to diagnose disease early and to direct therapy in ways which surpass anything that has been available until now. The clinical tissue and human biologic material that pathologists and laboratory physicians see on a daily basis in their clinical practice provide intellectual inspiration and direction to investigate mechanisms of human disease in novel and productive ways. These investigations have led to quantum leaps in knowledge and understanding of pathogenesis. By being at the crossroads of basic science and clinical medicine, pathologists are at the enviable position of understanding how to develop appropriate in vitro and in vivo models to investigate complex mechanisms of human disease. Phenotypes are studied, combining morphology and molecular biology, a powerful combination to understand genomic and proteomic function. Thus, laboratory physician scientists are in an excellent position to generate and effectively communicate new discoveries and state-of-the-art knowledge to the clinical arena. In fact, it is only through high quality research that health care costs will be controlled by reducing the burden of disease in the population.

Why Choose Pathology and Laboratory Medicine?

Medical students experience numerous disciplines during their training and are required to choose a speciality to train in, often before they have had the opportunity to obtain sufficient information and exposure to make a truly informed decision. The disciplines of pathology and laboratory medicine have distinct advantages in fashioning a successful physician scientist career that embraces research and patient care.

- The core values of the speciality are research and education.
- The speciality is at the interface of clinical care and basic science.
- The speciality is at the interface of translational research and clinical care.
- Pathologists and laboratory physicians are the custodians of human biologic material and thus have an understanding of how to use this material to generate new knowledge in the pathogenesis of disease, and in clinical practice.

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- Pathologists and laboratory physicians have the training to carry out anatomical, biomedical and molecular analyses of animal model systems, an essential tool to study human disease.
- The clinical practice of pathology and laboratory medicine requires numerous skills that are identical to those required in basic, translational, and clinical research.
- Pathology and laboratory medicine is a high-intensity, knowledge based speciality that requires life-long learning to provide similar to the requirements of a research investigator.
- There are many interfaces between pathology/laboratory medicine and industry, especially in the pursuit of prevention, diagnosis, prognosis, treatment and understanding of disease.

Avrum I. Gotlieb, MD, CM, FRCPC
Professor and Chair

AWARDS AND HONORS

FACULTY

International

- **Colin McKerlie** was appointed to the Editorial Board of *Toxicologic Pathology*, April 2006 - December 2008.
- **Dominic Pantalony** was awarded the “Distinguished Emeritus Status” by The American Society of Hematology for exemplary service and efforts in the advancement of the field of Hematology.
- **Hillar Vellend** is the recipient of the 2006 Clinical Teacher Award of the Infectious Diseases Society of America.

National

- **Khosrow Adeli** received the 2006 National Award for Outstanding Contributions to the Profession of Clinical Chemistry by the Canadian Society of Clinical Chemists, awarded at the CSCC Annual Meeting in Victoria BC.
- **Philip Gordon** has been selected by the Royal College of Physicians and Surgeons of Canada Regional Advisory Committee for Alberta, British Columbia, the Yukon and the Northwest Territories, as the recipient of the Prix d'excellence for 2006. This is in recognition of Dr Gordon's contributions to medical education, his profession and outstanding service to the Royal College.
- **Philip Gordon** received the 2006 Annual Award from the Department of Laboratory Medicine & Pathology, University of Alberta Hospital.
- **Avrum I Gotlieb** was recently elected as a Fellow of the Canadian Academy of Health Sciences. Members elected as Fellows are well recognized by their peers in Canada and internationally for their contributions to the promotion of health science. They will have demonstrated leadership, creativity, distinctive competencies and commitment to advance academic health sciences. Induction to the fellowship will occur in September 2006 in Ottawa.

Provincial / Local

- Barry A. McLellan, Chief Coroner for Ontario, announced **Michael Pollanen's** appointment as Chief Forensic Pathologist for the province of Ontario effective April 24,

2006. In this role, Dr Pollanen is responsible for maintaining high quality pathology services within the Provincial Forensic Pathology Unit (FPU) at the Office of the Chief Coroner and throughout the province. Dr Pollanen received his medical degree from the University of Toronto in 1999. He subsequently completed a residency in pathology at the University of Toronto in 2003. His residency training included a one-year period as Visiting Medical Examiner for the District of Columbia, Washington DC. Dr Pollanen has been on permanent staff as a Forensic Pathologist with the Office of the Chief Coroner since July 1, 2003. On July 22, 2004, he was appointed Medical Director of the FPU. He is an Associate Professor in the Department of Laboratory Medicine and Pathobiology (Department of Pathology) and the Department of Forensic Science at the University of Toronto. His expertise and opinion is sought after worldwide. In the past, he has been retained as an expert consultant by the following jurisdictions: Bermuda, the Democratic Republic of East Timor, the Kingdom of Cambodia, the Republic of Kazakhstan, the Republic of Uzbekistan, and the Republic of Ireland. He has also worked extensively, at the request of the federal Department of Foreign Affairs, on various assignments including assisting with the process of identification of victims of the Indian Ocean Tsunami (Phuket, Thailand).

- **Reinhold Vieth's** research and advocacy for higher daily doses of vitamin D is receiving increasing prominence. Dr Vieth was a featured speaker at the Canadian Cancer Society Conference on this subject, which was quoted in the Globe and Mail on Friday, March 10, 2006.

University of Toronto / Affiliated Hospitals

- **Khosrow Adeli** was awarded the 2006 Teaching Award from the DPLM Symposium on June 8th 2006.
- **JoAnne McLaurin** and her colleagues **David Westaway**, Howard Mount, Paul Fraser and Peter St George-Hyslop at the Centre for Research in Neurodegenerative Diseases have identified a drug that stops the amyloid β peptide – which causes toxic neural damage in brains affected by Alzheimer's disease – from accumulating. The results of the study, published in *Nature Medicine*, demonstrated improvement in memory and pathology among mice that had been genetically altered to have Alzheimer's disease. The group is cautiously optimistic that the same may hold true for humans. Based on the study's results, Health Canada has approved the drug for Phase 1 clinical trials, to determine whether the drug produces side effects in healthy humans.
- The keynote lectures of the Microbiology and Infectious Diseases Research Day will now officially be titled the “James L. Brunton Lecture”, to pay tribute to **Jim Brunton's** many years of service as the Head of Infectious Diseases, and his selfless contribution to the basic and clinical research in microbiology and infectious diseases in Toronto.

Department of Laboratory Medicine and Pathobiology

- **Yvan Bedard**, MSH, is the winner of the 2006 Distinguished Service Award.

- The 2006 departmental teaching awards as selected by the Education Committee are:
 - Graduate Teaching - **Mahmoud Khalifa**, SHSC
 - Undergraduate Teaching - **Michael Ohh**, MSB

STUDENTS AND TRAINEES

- **2006 Royal College of Physicians and Surgeons Fellowship Examinations in Anatomical Pathology**
Congratulations to our graduating trainees on their recent success at the RCPSC fellowship examinations:
 - **Khaldoon Aljerian**
 - **Mubarak Al-Shraim**
 - **Ahmed Arwini**
 - **Dina El Demellawy**
 - **Meagan Kennedy**
 - **Corwyn Rowsell**
 - **Ilan Weinreb**
- **Anita Bane** (Frances O'Malley/Irene Andrulis) received the Irish-North American Association of Pathologists award for her Platform presentation, *BRCA2 associated breast cancers exhibit a luminal phenotype despite their high histologic grade*, at USCAP, Atlanta GA, February 13, 2006.
- **Sarit Aviel-Ronen** (CIHR Fellow, Ming Tsao) has received the Pulmonary Pathology Society's Trainee Presentation Award for her poster presentation at 2006 meeting of the USCAP for the presentation, *Array-Chromosomal Genomic Hybridization (CGH) Study Comparing Bronchioloalveolar Carcinoma and Invasive Lung Adenocarcinoma*.
- **Edith MC Chow** (Jeremy Mogridge) won 3rd Prize for her poster, *The effect of anthrax lethal toxin on mRNA stability*, at the Microbiology & Infectious Diseases Research Day held March 31st 2006.
- **Alicia A. Tone** (Patricia Shaw) received an award at the Obstetrics & Gynecology Research Day 2006 for her project, *B3, the study of fallopian tube epithelium to identify early events of hereditary serous carcinogenesis* (Alicia A Tone, Heather Begley, Monika Sharma, Igor Jurisica, Joan Murphy, Barry Rosen, Theodore J. Brown, & Patricia A. Shaw). This presentation was also awarded the BC Foundation for Non-Animal Research Award (Graduate Student Prize) at the Third National Conference on Ovarian Cancer Research in Vancouver BC in May 2006.

10TH ANNUAL SYMPOSIUM ON ADVANCES IN LABORATORY MEDICINE AND 4TH LAURENCE E. BECKER SYMPOSIUM POSTER COMPETITION, JUNE 8TH, 2006:

- **MSc Students:**
 - 1st Place: **Vincent Wong**: *The validation of chromosome 1q specific BAC probes using fluorescence in situ hybridization.*
 - 2nd Place: **Jeanette Reyes**: *Sudden unexpected death in children (SUDC) of undetermined cause: A review of the pathological findings.*
- **PhD Students:**
 - 1st Place: **Maria Fabiana De Rosa**: *Inhibition of MDR-1 by adamantlyl-gb3, a globotriaosyl ceramide analogue.*

2nd Place: **Angela Rutledge**: *Glucosamine induces apolipoprotein b100 degradation via proteasomal and post-ER mechanisms.*

▪ Postdoctoral Fellow:

1st Place: **Georges Maire**: *RECQL4, a potential biological marker for genomic instability in osteosarcoma.*

2nd Place: **Maisa Yoshimoto**: *Gene pathway dysregulation in primary prostate cancer.*

▪ Resident or Fellow:

1st Place: **Sean Zhang**: *A direct immunofluorescence assay (DFA) for the detection of human metapneumovirus from nasal swabs in children.*

2nd Place: **M.L. Liang**: *Expression of p53, PDGFR- α , - β , PTEN, EGFR, and MIB-1 in paediatric high grade astrocytoma.*


▪ Medical Laboratory Technologist:

1st Place: **Susan Chilton-MacNeill**: *Application of an RT-PCR assay for tyrosinase to sentinel lymph node biopsies in paediatric melanoma patients.*

1st Place: **Yi-Li Yang**: *MLPA: A new technique for detection of large gene deletions and duplications*


2nd Place: **Farhad Gharabaghi**: *Comparison of Qiagen/Artus Realart[™] Influenza LC RT-PCR kit with direct immunofluorescence assay (DFA) and cell culture for detection of influenza in children.*

2nd Place: **Leslie Steele**: *The use of the multiplex ligation-dependent probe amplification assay in the identification of CFTR gene rearrangements.*






CLAMPS

Join us for the 1st Annual LMP BBQ
Thursday June 29, 2006
@
Toronto Centre Island (Olympic Island Park) at 12pm



RSVP to clampsmp@gmail.com

Come prepared to eat and play sports
Ferry at the foot of Bay St.
Cost \$6 round trip

APPOINTMENTS AND DEPARTURES

LMP STAFF

- **Rajkumar Vajpeyi** has been appointed Lecturer effective January 1st 2006. He is located in the Department of Pathology at the University Health Network.

ANNOUNCEMENTS

PROMOTIONS (JULY 1, 2006)

- **Full Professors**
 - **David Irwin**
 - **Tony Mazzulli**
 - **Frances O'Malley**
 - **John Semple**, Cross Appointee from Surgery
- **Associate Professors**
 - **Hong Chang**
 - **Greg Denomme**
 - **Valery Leytin**
 - **Tianru Jin**, Cross Appointee from Medicine
- **Assistant Professors**
 - **Nadia Ismiil**

CLAMPS 2006-2007 EXECUTIVE

President: **Alison Burgess**
 Vice President (Academic): **Sheron Perera**
 Vice President (Social): **Peter Azmi**
 Treasurer: **Miralem Mrkonjic**
 Secretary: **Kevin Donato**

LMP STUDENT UNION (LMPSU) - 2006-2007 EXECS

President - **Vinca Chow**
 Vice President Academics - **Cindy Lam**
 Vice President Finance - **Mayank Singal**
 Vice President Social - **Natalya Zhang**
 Communications Officer - **Alex Hui**
 ASSU Representative - **Amy Chen**
 Social Committee - **Alice Zhou, Vineet Joag, Phil Xue, Peter Yang**

William Anderson Memorial Lecture

Monday, September 11th 2006

MHC-Independent Mechanism of Self-Tolerance in Natural Killer Cells: A new definition of self

DR VINAY KUMAR
 Chair, Department of Pathology
 University of Chicago

- * Reception 4:00-5:00PM, 11th Floor Eaton Building, Toronto General Hospital
- * 2006 Anderson Memorial Lecture 5:00 PM

Presented by University Health Network - Toronto Medical Laboratories and MDS Inc.
 University of Toronto

IMPORTANT DATES

- **Anderson Memorial Lecture**, University Health Network, Monday September 11, 2006
 Lecturer: **Dr Vinay Kumar**
- **4th Annual DSR Sarma Lectureship in Oncologic Pathology**, Medical Sciences Building, UofT, Room 2172, Monday, November 6, 2006 at 4pm
 Lecturer: **Dr Morag Park**, Molecular Oncology Group, Royal Victoria Hospital

MEETING CALENDAR

- **Canadian Association of Pathologists**, St Johns NF, July 15-19, 2006
- **The International Skeletal Society 4th Annual Pathology Refresher Course: Non-Neoplastic And Neoplastic Conditions Of The Skeletal Tissues**, Vancouver BC, September 13 - 15, 2006
- **XXVI Congress of the International Academy of Pathology**, Montreal PQ, September 16-21, 2006
- **American Heart Association Meeting**, Chicago IL, November 12-15, 2006
- **USCAP**, San Diego CA, March 24-30, 2007
- **EB07 (ASIP)**, Washington DC, April 28-May 2, 2007
- **American Society for Microbiology Annual Meeting**, Toronto ON, May 20-24, 2007
- **CAP 2007**, Toronto ON, June 14-18, 2007

LMP Research

ONTARIO MINISTRY OF RESEARCH AND INNOVATION 2006 EARLY RESEARCH AWARDS (ERA, COMPETITION #1)

The University of Toronto recently honored the recipients of the Ontario Ministry of Research and Innovation 2006 Early Research Awards. We are extremely proud that 14 of the 64 awardees were from our Faculty of Medicine, 3 from LMP.

In order to be eligible for an award, a researcher at an Ontario university, college, hospital or research institute must be within the first five years of beginning an independent academic research career. The goal of this program is to improve Ontario's ability to retain the best and the brightest research talent. The accomplishments of these awardees are spectacular and their leadership potential is highly evident.

- **Colin McKerlie**
- **Janice Robertson**
- **Dean Rowe-Magnus**

GRANTS AWARDED

- **Jeannie Callum**. Clinical Service Grant, Regional Blood Coordinating Network for Central Ontario. MOHLTC, \$1,208,453.
- **David Hwang**. *Bacterial microfloral profiling of the lung in cystic fibrosis*. JP Bickell Foundation, \$64,134, 1 year.
- **David Hwang**. *Role of the pulmonary microflora in human lung transplantation*. Ontario Lung Association/Ontario Thoracic Society, \$43,650, 1 year renewable.
- **Duncan J Stewart**. *Genotype/Phenotype of endothelial progenitor cells in pulmonary arterial hypertension*. International Opportunities Program - Collaborative Research Project Award/CIHR Award, \$97,079.
- **Marc Grynbas**, Bazett-Jones D, Brumell J, **Fred Keeley***, Grinstein S, **Colin McKerlie**, **Howard Tenebaum***, Adamson SL, Zhen M, & Quaggin S. *Advanced*

bioimaging facility at MSH/SLRI. CIHR Research Resource Grant, September 2006 – August 2011, \$663,180.

- **Khosrow Adeli.** Ultracentrifuge with rotors. NSERC Equipment Grant 2006.
- **Khosrow Adeli.** Thermocycler. NSERC Equipment Grant 2006
- Peter Selby, **Bhushan M Kapur** et al. *Maternal opioid treatment: human experimental research.* National Institute on Drug Abuse, July 2004 - June 2009. US\$1,250,000.00.
- **Bhushan M Kapur** et al. *Fetal alcohol spectrum disorder: Perinatal mechanisms, treatment and diagnosis.* CIHR - New Emerging Teams, Early Life Events and First Episodes of Brain Disorders Asked for 1.5M over five years. Approved \$295,000 for first year.
- **Colin McKerlie,** Adamson SL, Aubin JE, Hu J, Hui CC, Nagy A, **Martin Post***, Rossant J, & Vidal SM. *Canadian Mouse Mutant Repository.* CIHR Research Resource Grant, September 2006-August 2011, \$519,036.
- **Philip Connelly*.** *Molecular mechanisms for oxidation of high density lipoproteins.* Heart and Stroke Foundation of Ontario. July 1 2006 - June 30, 2008, \$195,994.
- **Roslyn Devlin.** *Epidemiology of C. difficile at St Michael's Hospital.* St Michael's Hospital. 2006, \$2,000.
- **Yeni Yücel* & Neeru Gupta*.** *Vascular injury to vision brain center mimics normal tension glaucoma.* Glaucoma Research Society of Canada. 2006-2007, \$10,000.
- **Yeni Yücel* & Neeru Gupta*.** Human glaucoma: Blood vessels and perivascular pathology. Medical School Grant Program, Merck Frost. 2006-2007, \$69,500.
- **Yeni Yücel* & Neeru Gupta*.** *Novel vision testing paradigms for patients with glaucoma.* Canadian Glaucoma Clinical Research Council. 2006-2007, \$14,000.00.
- **Yeni Yücel* & Neeru Gupta*.** *Vascular injury to vision brain centers mimics normal tension glaucoma.* Glaucoma Research Society of Canada. 2006-2007, \$10,000.
- **Andrew Herzenberg** received a contract with Amgen for \$1.65 million in research infrastructure support. A large portion of this will be used to fund a Renal Molecular Diagnostic Centre for the Glomerular and Hereditary Renal Disease Group.
- A team of researchers and clinicians from The Hospital for Sick Children, Denmark and the United Kingdom have been awarded \$6.7 million by the Fondation Leducq under the Transatlantic Networks in Cardiovascular Research Program. The five-year grant will support the group's research into defining the mechanisms, mediators and clinical applications of remote ischemic preconditioning. This grant application was spearheaded by the Sick Kids group and will support the work of Andrew Redington, John Callahan, **Greg Wilson,** Christopher Caldarone and Brian McCrindle.

NCIC AWARD RECIPIENTS MARCH 2006

- **Rod Bremner*.** *Long-range BRG1-dependent regulation of interferon target genes.* Canadian Cancer Society Research Award, \$680,210.
- **Peter Dirks*.** *Cancer stem cells and cells of origin in experimental mouse brain tumors.* Canadian Cancer Society Research Award, \$423,000.

- **Daniel Drucker*.** *GLP-2 receptor activation and the control of cell growth.* Canadian Cancer Society Research Award, \$705,000.
- **Maria Rozakis-Adcock.** *Role of Tid1 in the regulation of pVHL tumor suppressor function.* Canadian Cancer Society Research Award, \$387,411.
- **Reinhold Vieth.** *Randomized trial of the effects of cholecalciferol on prostate cancer associated lesions and on cholecalciferol metabolites in prostate tissue.* Canadian Cancer Society Research Award (Prostate Cancer), \$262,730.
- **Herman Yeger.** *Reversing the malignant phenotype: the neuroblastoma model.* Canadian Cancer Society Research Award, \$298,763.
- **Li Zhang.** *The effect and mechanism of a novel adoptive immunotherapy for lung cancer using ex vivo expanded human DNT cells.* Canadian Cancer Society Research Award, \$705,000.

PATENT

- **Li Zhang** & Mei Han. *Method of ex vivo purification and propagation of human double negative T cells.* November 18, 2005.

LMP AT USCAP, ATLANTA GA, FEBRUARY 13, 2006

- N Ismiil, G Rasty, Z Ghorab, S Nofech-Mozes, I Ackerman, G Thomas, A Covens, & M Khalifa. *Adenomyosis involved by endometrial adenocarcinoma is a significant risk factor for deep myometrial invasion.*
- N Ismiil, G Rasty, Z Ghorab, S Nofech-Mozes, G Thomas, I Ackerman, A Covens, & M Khalifa. *Endometrial adenocarcinoma involving adenomyosis is more likely to invade the myometrium than adenocarcinoma occurring in the absence of adenomyosis.*
- K Craddock, B Bandarchi, & M Khalifa. *Blue nevus of the Mullerian Tract: Local Experience of a Rare Entity.*
- M Khalifa, C Rowsell, R Gladly, Y-J Ko, S Hanna, A Smith, & C Law. *Effect of postoperative chemotherapy on EGFR expression in colorectal adenocarcinoma.*
- C Rowsell, HJ Kahn, & W Hanna. *The expression of epithelial membrane antigen and D2-40 in invasive micropapillary carcinoma of the breast – role in pathogenesis.*
- WM Hanna & A Plotkin. *Her1 (EGFR) and Her2/neu expression in gastric carcinoma.*
- E Hsieh, A Plotkin, M Khalifa, M Khalil, & W Hanna. *Expression of Her1 and Her2 in MSI positive and negative colonic adenocarcinoma.*
- Z Ghorab, MA Khalifa, & HJ Kahn. *Adenomatoid tumors of the female and male genital tract express D2-40*
- S Nofech-Mozes, M Clemons, & W Hanna. *CISH is an alternative method to FISH in determining HER2/neu status on core biopsies.*
- S Nofech-Mozes, J Spayne, E Rakovitch, & W Hanna. *Biological markers as predictors of prognosis in DCIS*
- W Hanna, S Nofech-Mozes, & H Kahn. *Intratumoral heterogeneity of Her2/neu in Breast Cancer – A rare event or an overlooked phenomenon?*

- S Nofech-Mozes, C Holloway, & W Hanna. *How to reduce the rate of surgical excision following core biopsies showing atypia?*
- G Rasty, C Kepron, & C Sherman. *Expression of immunohistochemical markers in prenatal female and male gonads.*
- M Khalifa, G Rasty, N Ismiil, I Ackerman, G Thomas, A Covens, R Osborne, & S Nofech-Mozes. *Endometrial adenocarcinoma in premenopausal women: A clinico-pathologic study.*
- D El Demellawy & J Butany. *Arrhythmogenic right ventricular dysplasia/cardiomyopathy: A clinicopathological review.*
- V Nair, JW Butany, G Singh, & C Fiendel. *Pericardial valves - modes of failure.*
- SE Fischer, EP Diamandis, S Ezzat, & SL Asa. *SELDI-TOF Mass spectrometry analysis of normal, benign and malignant thyroid tissue.*
- T Kondo, S Murata, R Katoh, S Ezzat, SL Asa. *Expression of BRAFWT and BRAFV600e: Its significance in tumorigenesis of thyroid carcinomas.*
- S Hussein, CS Leung, L Kapusta, & JR Srigley. *Temporal trends and cancer prediction rates for atypical small acinar proliferation (ASAP) with or without associated high grade prostatic intraepithelial neoplasia (PIN)*
- B Djordjevic, A Tone, H Begley, J Murphy, B Rosen, J McLaughlin, S Narod, & PA Shaw. *An immunohistochemical comparison of ovarian cancers tested for germline BRCA1/BRCA2 mutations.*
- R Jastania, V Kukreti, K Chun, M Al Shraim, D Bailey, B Patterson, M Crump, S Boerner, & W Geddie. *Non-Hodgkin lymphoma showing abnormalities of C-Myc including dual translocations involving C-Myc and Bcl2: A clinicopathologic study.*
- S Aviel-Ronen, BP Coe, WL Lam, & MS Tsao. *array-chromosomal genomic hybridization (CGH) study comparing bronchioloalveolar carcinoma and invasive lung adenocarcinoma.*
- TJ Colgan, FP O'Malley, & RH Riddell. *Invited Workshop: The role of the histopathologist in the detection of adult hereditary carcinoma.*
- TJ Colgan, AA Renshaw, DR Mody, B Blond, M Walsh, & AT Moriarty. *Robustness of validation criteria in the College of American Pathologists. Interlaboratory Comparison Program in cervicovaginal cytology.*
- AL Bane, S Tjan, N Weerasooriya, IL Andrulis, & FP O'Malley. *BRCA2 associated breast cancers exhibit a luminal phenotype despite their high histologic grade (Platform presentation).*
- S Joshi, M Guindi, JJ Feld, HP Diennes, A Lohse, & EJ Heathcote. *Long term histological and clinical follow-up of anti-mitochondrial antibody (AMA) positive autoimmune hepatitis (AIH): another variant of autoimmune hepatitis or a well controlled overlap syndrome?*
- Frances O'Malley. *Co-Moderator, Proffered papers, Breast Pathology Section.*
- Jagdish Butany, SCVP Companion Meeting.

*Cross Appointee

LMP Education

RESIDENTS AND FELLOWS SECTION

Announcements

- Congratulations to Ahlam Awamleh and Nidal Obaidat, both clinical fellows at UHN, on the birth of their daughter Dima.

New Residents and Fellows

On behalf of the Department of Laboratory Medicine and Pathobiology we welcome our new residents and fellows:

- Suzy Abu-Abed (Anatomical Pathology)
- Heather Adam (Clinical Microbiology)
- Zohreh Afshar-Ghotli (General Pathology)
- Hameed Al Jawad (Clinical Fellow, UHN)
- Rasoul Alikhani Koupaie (Clinical Chemistry)
- Anwar Al Masri (Neuropathology)
- Huda Al Mohri (Medical Microbiology)
- Dilinuer Aximu (Clinical Fellow, MSH)
- Ben Beheshti (Anatomical Pathology)
- Blaise Clarke (Neuropathology)
- Karen Dallas (Hematological Pathology)
- Yanping Gong (Clinical Chemistry)
- Mina Jamali (Anatomical Pathology)
- Firouzeh Niakosari (Anatomical Pathology)
- Farahnaz Noroozinia (Research Fellow, UHN)
- Paranitharan Paranriubasingam (Clinical Fellow, Forensic Pathology)
- Carolyn Shiau (Anatomical Pathology)
- Pradeep Vaideeswar (Research Fellow)

Residents and Fellows Reception

We invite all new and returning residents and fellows to attend the Residents and Fellows Welcome Reception on Thursday July 13th in the Main Lounge at the Faculty Club, 41 Willcocks Street.

Compiled by Julia Bella.

GRADUATE STUDENTS SECTION

Thank You

As the outgoing President of CLAMPS 2005-2006 I would like to thank all the Executive Members of CLAMPS for their wonderful work this year. I truly appreciate it. I would also like to thank Dr Gotlieb and Dr Elsholtz for their advice and cooperation. CLAMPS has organized numerous academic and social events this year and I hope you enjoyed them all. If you have any suggestions on what kind of events you would like to see CLAMPS organize next year or you have general comments please e-mail CLAMPS at clampsmp@gmail.com.

It was a pleasure to act as the President of CLAMPS and I wish all the best to the newly elected President for the 2006-2007 school year, Alison Burgess. Congratulations!

Have a great summer,

Dorota Dajnowiec
CLAMPS President, 2005-2006

Thesis Defenses - PhD

- **Hani Kim** (Dwayne Barber). *Investigation of Molecular and Cellular Basis of Leukemia Mediated by Tyrosine Kinase Chromosomal Translocations.*

Thesis Defenses - MSc

- **Heather Basciano** (Khosrow Adeli). *Development and characterization of a novel animal model of diet-induced insulin resistant diabetes and metabolic Dyslipidemia: Mechanistic interactions between dietary fructose, fat and cholesterol, and the possible role of liver x receptor in the induction of metabolic syndrome.*
- **Athena Ypsilanti** (Isabelle Aubert). *The Septohippocampal Cholinergic System in Aging.*
- **Anna Shvets** (Gerald Prud'homme). *B7H4, a negative regulator of T cell immunity.*
- **Shannon Shan** (Eleftherios Diamandis). *Transcriptional up-regulation of human tissue kallikrein 6 in ovarian cancer.*
- **Naomi Crnko** (Pang Shek). *Neutrophil activation and apoptosis in traumatic brain injured patients following pre-hospital resuscitation with hypertonic saline.*
- **Brooke Murphy** (Aleksander Hinek). *Search for the mechanisms by which hyperthermia induces increased elastin deposition.*

Reclassification to PhD

- **Erick Ling** (Peter Dirks)
- **Godfrey Chang** (Rita Kandel)
- **Ian Watson** (Michael Ohh)

Compiled by Marika Michael.

UNDERGRADUATE STUDENTS SECTION**2006 Pathobiology Specialist Graduates**

- | | |
|-------------------|------------------|
| ▪ Emily Chan | ▪ David Rosa |
| ▪ Rhonda Cheng | ▪ Eva Seto |
| ▪ Michael Chui | ▪ Eric Tseng |
| ▪ Nazli Ghiasi | ▪ Christine Wong |
| ▪ Nasir Khan | ▪ Vincent Wong |
| ▪ Amber Liu | ▪ Dennis Yeung |
| ▪ Stephen Mack | ▪ Kelvin Young |
| ▪ Ashly Maughan | ▪ Taylor Zhou |
| ▪ Crystal Pinto | ▪ Yang Zhou |
| ▪ Michael Quejada | |

Compiled by Kitty Lo.

Hospital Reports**COMMUNITY/OTHER****Invited Lectures**

- **Viliam Lustig**. *Blood natriuretic peptides.* Plenary Lecture at the Second Conference of the Association of Romanian Laboratories, Timisoara, Romania, May 24, 2006.

Compiled by Viliam Lustig.

HOSPITAL FOR SICK CHILDREN**Visiting Professors/Invited Lectures**

- **Colin McKerlie**. *Canadian Mouse Mutant Repository: Archiving & distributing for mouse mutagenesis.* 3rd Annual Workshop of the Centre for Modeling Human Disease (CMHD), Toronto ON, June 2006.

Presentations

- Grasso F, Peltekova V, Engelberts D, Frndova H, **McKerlie C**, & Kavanagh BP. *Positive effects of negative ventilation.* 2006 American Thoracic Society, San Diego CA, May 2006.
- **McKerlie C**. *Canadian Mouse Mutant Repository.* 4th Meeting of the Federation of International Mouse Resources (FIMRe), Tsukuba, Japan, May 2006.
- Rossant J, Stanford W, Nagy A, **McKerlie C**, Rancourt D, Jefferies W, Lefebvre L, Ding H, & Hicks G. *NorCOMM - a Canadian genome-wide mouse mutagenesis consortium.* American Association for the Advancement of Science Annual Meeting, St Louis MO, February 2006.
- **Bhushan Kapur**, Sheldon Hershkop, & Dianne Rampersaud. *Drugs in oral fluids – A pilot study.* Presented at the annual conference of the Canadian Society of Addiction Medicine, Vancouver BC, October 21-23, 2005.

Compiled by Susan Cunningham.

MOUNT SINAI HOSPITAL**Invited Lectures**

- **Frances O'Malley** and colleagues have been honored by selection to present at the Plenary Session of the American Society of Clinical Oncology meeting in June 2006. The title of the paper to be presented is, *Prognostic & predictive value of topoisomerase II alpha in a randomized trial comparing CMF to CEF in premenopausal women with node positive breast cancer (NCIC CTG MA.5).*

Compiled by Theresa Pirogowicz.

SUNNYBROOK AND WOMEN'S COLLEGE**Announcements**

- Welcome is extended to **Corwyn Rowsell** who will be joining the department as of July 4, 2006.
- We welcome back **Sharon Nofech-Mozes** as Fellow for her 2nd year in the department.
- Congratulations to **Anna Plotkin** (Research Assistant) on the birth of her daughter, Julia, May, 2006.

Presentations

- **Wedad Hanna** attended/chaired the Ontario Pathology Consultant meeting (Roche) in Toronto June 16, 2006:
 - *Update on QA, guidelines, and funding*
 - *Her2/neu: As a predictive and prognostic factor in breast cancer*
- **Golnar Rasty**. *Fine Needle Aspiration Biopsy (FNAB).* Toronto Regional Sunnybrook Cancer Centre's Program Council, June 1, 2006.
- Burger AM, Amemiya Y, Kahn HJ, Narod SA, Hanna WM, & Seth AK. *A novel ring-type ubiquitin ligase BCA-2 correlates with outcome in invasive breast cancer.* Third International Conference on Ubiquitin, Ubiquitin-like

- Proteins and Cancer, The University of Texas MD Anderson Cancer Center, Houston TX, February 2006.
- Burger AM, Gao Y, Amemiya Y, Kahn HJ, Kitching R, Yang Y, Sun P, Narod SA, **Hanna WM**, & **Seth AK** (presenter). *Correlation of the ring-type ubiquitin ligase BCA2 with breast cancer survival*. 97th Annual Meeting of the American Association for Cancer Research, Washington DC, April 1-5, 2006.
 - Azmi P, Amemiya Y, & **Seth A**. *Disregulated Ring Type E3 Ligases in Breast Cancer: RNF11 and BCA2 modulate ubiquitination and cell signalling*. 97th Annual Meeting of the American Association for Cancer Research, Washington DC, April 1-5, 2006.
 - Gao Y, Syam S, Amemiya Y, Insogna K, & **Seth A**. *BCA3, a novel breast cancer associated protein interacts with Rac1 during cell migration*. Canadian Breast Cancer Research Alliance Reasons for Hope Fourth Scientific Conference, Montreal QC, May 6-8, 2006.
 - Amemiya Y, Burger AM, **Kahn HJ**, Narod SA, **Hanna WM**, & **Seth AK**. *A novel ring-type ubiquitin ligase BCA2 correlates with outcome in invasive breast cancer*. Canadian Breast Cancer Research Alliance Reasons for Hope Fourth Scientific Conference, Montreal QC, May 6-8, 2006

Compiled by Karen Laws and Daphne Mathias.

ST MICHAEL'S HOSPITAL

Presentations

- **Devlin R**. *Pandemic influenza: Preparedness not panic*. 2nd annual conference "A Focus on Nursing Excellence", April 7, 2006.
- **Gupta N**, Wang S, Girard E, Ang LC, & **Yücel Y**. *Horizontal cells of the retina are affected in human glaucoma and accumulate abnormal tau protein*. Annual Association for Research in Vision and Ophthalmology Meeting, Fort Lauderdale FL, May 1, 2006.
- **Lazarus A**. *How does intravenous immunoglobulin (IVIg) ameliorate autoimmune disease?* Department of Microbiology & Immunology, McGill University. Montreal QC, April 13, 2006.
- **Lazarus A**. *The discovery of the relevant molecular and cellular targets of IVIg in autoimmunity*. Hema-Quebec/Canadian Blood Services Joint Scientific/Medical retreat 2006, Montreal, QC, May 4, 2006.
- **Lazarus A**. *Inhibition of immune thrombocytopenic purpura (ITP) by an orally bioavailable inhibitor of SYK kinase activity*. Rigel Pharmaceuticals Inc, San Francisco CA, April 5, 2006.
- **Lazarus A**. *How does intravenous immunoglobulin (IVIg) ameliorate autoimmune disease?* St Michael's Hospital Research Rounds, Toronto ON, March 2006.
- **Leytin V**, Allen D, & **Freedman J**. *Rabbit model for studying in vivo viability of human platelet concentrates: Role of GPIb α and CD62*. 19th International Congress on Thrombosis, Tel Aviv, Israel, May 14-18, 2006.
- **Leytin V**, Allen D, Mykhaylov S, & **Freedman J**. *Platelet apoptosis can be triggered by pathologic high shear stresses*. 19th International Congress on Thrombosis, Tel Aviv, Israel, May 14-18, 2006.
- Liu J, Young TK, Zinman B, Harris SB, **Connelly PW**, & Hanely AJ. *Lifestyle variables, non-traditional cardiovascular risk factors, and the metabolic syndrome in an aboriginal Canadian population*. Obesity 2006;4:500-508.
- Lombardero M, Quintanar-Stephano A, Vidal S, Horvath E, **Kovacs K**, Lloyd RV, Scheithauer BW. *Pituitary autograft vascularization*. Exp Biol 2006;1284, San Francisco CA.
- **Ni H**. *Mouse model of fetal and neonatal alloimmune thrombocytopenia*. Hema-Quebec/Canadian Blood Services Joint Scientific/Medical Retreat 2006, Montreal, May 4, 2006.
- Quintanar-Stephano A, Organista A, Tinajero M, Gonzalez E, Garcia D, Sanchez IO, Chavira R, Berczi I, & **Kovacs K**. *Blockade of immune-cell vasopressin receptors by V1a antagonist inhibit the peak of the experimental autoimmune encephalomyelitis (EAE) in Lewis rats*. San Francisco CA; Exp Biol 2006.
- Rotondo F, Kovacs K, Horvath E, Bell CD, Lloyd RV, & Scheithauer BW. *Immunohistochemical nestin expression in nontumorous human pituitaries and pituitary tumors*. San Francisco CA; Exp Biol 2006;1088.
- Salehi F, **Kovacs K**, Cusimano MD, Bell CD, Rotondo F, & Scheithauer BW. *Nestin: immunohistochemical expression in vessels during the development and progression of pituitary infarction*. San Francisco CA; Exp Biol 2006;637.
- **Yücel Y**. *The evidence for glaucoma as a neurodegenerative disease*. Mapping the future of glaucoma. Global Glaucoma Summit, Beijing, China, March 23-26, 2006.
- **Yücel YH**, Darabie A, Wang S, Kaufman PL, & **Gupta N**. *Glutamate nmda receptor 1 subunit expression is increased in the lateral geniculate nucleus of experimental glaucoma*. Annual Association for Research in Vision and Ophthalmology Meeting, Fort Lauderdale FL, May 1, 2006.

Compiled by Dorothy Avery.

UNIVERSITY HEALTH NETWORK

Announcements

- **Avrum Gotlieb**. Abstract Reviewer. International Symposium on Atherosclerosis, Rome, Italy, June 2006.
- **Avrum Gotlieb**, **B Lowell Langille**, & **Myron Cybulsky**. Organizers, Cell Biology of Atherosclerosis Research Day (HSFO), Toronto ON, April 2006.

Invited Lectures

- **Sylvia Asa**. i) *The impact of molecular diagnostics on the management of the thyroid nodule*; ii) *Pituitary slide seminar*. Department of Pathology and Laboratory Medicine, Grand Rounds, Emory University, Atlanta GA, March 23, 2006.
- **Sylvia Asa**. i) *Pituitary adenomas: pathology, etiology and implications for therapy* and ii) *Journal Club discussion*. Division of Endocrinology Grand Rounds, McGill University, Royal Victoria Hospital, Montreal QC, March 30, 2006.
- **Avrum Gotlieb**. Keynote Speaker. *Biologic properties of heart valves*. 10th Annual Hilton Head Workshop and 2nd

Biennial Heart Valve Meeting, Hilton Head SC, March 3, 2006.

- **Avrum Gotlieb.** Basic Science Plenary Session: *The Delicate Balance between Vascular Cell Function and Dysfunction*. Vascular Access Symposium, St Michael's Hospital, Toronto ON, June 3, 2006.
- **Li Zhang.** *Role and mechanisms of double negative regulatory T cells in transplantation tolerance*. Department of Immunology and Microbiology, Dalhousie University, Halifax NS, November 21, 2005.

Presentations

Third National Conference on Ovarian Cancer Research, Vancouver BC, May 2006:

- Djordjevic B, Tone A, Begley H, Murphy J, Rosen B, McLaughlin J, Narod S, & **Shaw PA.** *An immunohistochemical comparison of ovarian cancers tested for germline BRCA1/BRCA2 mutations.*
- Seto K, Pinnaduwege D, Bull S, Colby S, Murphy J, Rosen B, **Shaw PA,** & I Andrusis. *Gene-Expression Profiling of Familial Ovarian Cancer.*
- Tone A, Begley H, Sharma M, Jurisica I, Murphy J, Rosen B, Brown T, & **Shaw PA.** *The study of fallopian tube epithelium to identify early events of hereditary serous carcinogenesis. Awarded BC Foundation for Non-Animal Research Award (Graduate Student Prize)*
- **Shaw PA,** Agochiya M, Sharma M, Murphy J, Rosen B, Brown TJ, Begley H, & Jurisica I. *Gene Expression Of Ovarian Serous Carcinoma After Neoadjuvant Chemotherapy.*
- **PA Shaw.** *The Role of Fallopian Tube Epithelium in Serous Oncogenesis.*

Compiled by Yvonne Bedford.

LMP Publications

- Adeli K. CSCC, A national society with an international presence. *Clin Biochem* 2006;39(5):423-424.
- Al Khalidi H, Kandel G, & Streutker CJ. Enteropathy with loss of enteroendocrine and paneth cells in a patient with immune dysregulation: a case of adult autoimmune enteropathy. *Hum Pathol* 2006;37:373-6.
- Arnold DM, Fergusson DA, Chan AK, Cook RJ, Fraser GA, Lim W, Blajchman MA, & Cook DJ. Avoiding transfusions in children undergoing cardiac surgery: a meta-analysis of randomized trials of aprotinin. *Anesth Analg* 2006;102(3):731-737.
- Avçin T, Tse SM, Schneider R, Ngan B, & Silverman ED. Macrophage activation syndrome as the presenting manifestation of rheumatic diseases in childhood. *J Pediatr* 2006;148(5):683-686.
- Bagshaw RD, Callahan JW, & Mahuran DJ. The Arf-family protein, Arl8b, is involved in the spatial distribution of lysosomes. *Biochem Biophys Res Commun* 2006;344(4):1186-1191.
- Bhoopat L, Rithaporn TS, Khunamornpong S, Bhoopat T, Taylor CR, & Thorner PS. Cell reservoirs in lymph nodes infected with HIV-1 subtype E differ from subtype B: identification by combined in situ polymerase chain reaction and immunohistochemistry. *Mod Pathol* 2006;19(2):255-263.
- Brandao LR, Williams S, Kahr WH, Ryan C, Temple M, & Chan AK. Exercise-induced deep vein thrombosis of the upper extremity. 2. A case series in children. *Acta Haematol* 2006;115(3-4):221-229.
- Brandao LR, Williams S, Kahr WH, Ryan C, Temple M, & Chan AK. Exercise-induced deep vein thrombosis of the upper extremity. 1. Literature review. *Acta Haematol* 2006;115(3-4):214-220.
- Campos-Rodrigues R, Quintanar-Stephano A, Jariollo-Luna RA, Oliver-Aguillon G, Ventura-Juarez J, Rivera-Aguilar V, Berczi I, & Kovacs K. Hypophysectomy and neurointermediate pituitary lobectomy reduce serum immunoglobulin M (IgM) and IgG and intestinal IgA responses to *Salmonella enterica* Serovar Typhimurium. *Infect Immun* 2006 Mar;1883-1889.
- Campos-Rodriguez R, Quintanar-Stephano A, Jariollo-Luna RA, Oliver-Aguillon G, Ventura-Juarez J, Rivera-A V, Berczi I, & Kovacs K. Hypophysectomy and neurointermediate pituitary lobectomy reduce serum immunoglobulin M (IGM) and IGG and intestinal IgA responses to *Salmonella enterica* Serovar Typhimurium infection in rats. *Infect Immun* 2006 Mar;1883-1889.
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BOOKS/BOOK CHAPTERS/GUEST EDITORS

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