Dear Friends & Colleagues!

Welcome to the 2017 Pre-Summer Chair’s Report!

The provincial Lab Services Transition and Hub Lab Planning Activities are approaching critical decision points related to the selection of the location for the Edmonton Hub Lab and the Governance Model for our provincial laboratory services. In parallel, preparations for the functional planning process for the Edmonton Hub Lab are proceeding by selecting an external consultant for this complex task. Many of you will again be asked to get involved and contribute your expertise towards shaping our future.

Please join me in welcoming our new faculty members (page 5 of the report) and in congratulating our faculty members who received prestigious national and international awards over the last few months. Again I’m impressed by all the scholarly activities and impactful academic products (37 publication just for this report!) our faculty is producing quarter per quarter in times of significant service commitments, limited resources and tight budgets. Our department is very successful, constantly striving to further capitalize on our unique translational position between basic and clinical science, which allows us to have significant innovative impact on our field and directly on patient care in the era of Precision Medicine.

Please review our Spotlight on Education. In this issue our departmental Graduate Program is introduced to you by Dr. Monika Keelan. Our Graduate Program reflects the broad spectrum and diversity of our department offering young students ample opportunity to study the basic and clinical aspects of laboratory medicine and diagnostics. Completing graduate studies with our program positions graduates with a variety of career opportunities in academia, health services, and industry. Furthermore, we recently integrated professional degree programs at the graduate level into the program. We started with the Pathologist Assistant program (led by Dr. Monika Keelan and Dr. Cheryl Mather) and strategic planning and curriculum development activities are underway in collaboration with our MLS program to expand this to other, novel professional degrees in our field.

Lastly, mark your calendar and register for the 2017 Banff Pathology Course (last page), which we are organizing together with our colleagues from the University of Calgary and in partnership with the Canadian Association of Pathologists on August 30 - September 02. I look forward to seeing many of you in Banff!

Sincerely,

Dr. Michael Mengel, MD
Professor and Chair
Department of Laboratory Medicine and Pathology
University of Alberta
Interim Zone Clinical Department Head
AHS Laboratory Services, Edmonton Zone
Spotlight on Education

The LMP Graduate Program

Dr. Monika Keelan
Grad Coordinator / Program Director

Diverse offerings in basic/applied research and a new health professional program

The Department of Laboratory Medicine and Pathology Graduate Program offers MSc and PhD degree programs, growing from 7 students in 1999 to a peak of 57 students in 2012, and an average enrolment of 50 students per year for the past 6 years. Students come from all over the world: North and South America, Asia, Europe, and Africa. The majority of graduate students are enrolled in our thesis-based MSc and PhD programs but there are also up to 4 students enrolled in our newest program, a specialized course-based MSc that provides health professional training to become a Pathologists’ Assistant.

What is the name of the graduate degree?

Before 2012, graduate students in our thesis-based programs obtained their degree in Medical Sciences with Specialization in Laboratory Medicine and Pathology because the program was administered under the umbrella of the Medical Sciences Graduate Program Committee. In 2012, our graduate program was granted independent status and students now obtain their degree in Laboratory Medicine and Pathology. Extremely diverse areas of study span a spectrum of basic and applied research, and are often interdisciplinary. We have supervisors from the Divisions of Analytical and Environmental Toxicology, Anatomical Pathology, Diagnostic and Applied Microbiology, Medical Laboratory Science, as well as supervisors who are not affiliated with specific LMP divisions.

What degree specializations are available?

Some students may choose a specialization for their degree in the fields of analytical and environmental toxicology, biopreservation, or molecular pathology.

Specialization in Analytical and Environmental Toxicology encompasses the development of highly sensitive analytical methods and novel DNA-based technologies for the detection of biological markers of disease, the detection of toxic chemicals and their metabolites present in biological and environment samples, as well as the mechanisms of how cells respond to toxic chemicals. These chemicals may be present naturally or as a result of human activities. Studies also characterize the effects of exposure to toxic chemicals on human cells and preclinical models. Students gain expertise in state-of-the-art analytical chemistry technologies and applications to clinical, biological and environmental settings.

Specialization in Biopreservation focuses on the investigation of current and novel approaches to improve cell and tissue preservation. It comprises the development of technologies to enable the stabilization and storage of many cell and tissue therapeutics for use in the clinical setting, or the bioarchiving of various environmental and scientific collections. Foundational research studies in cryobiology enable the delivery of therapeutics used in transfusion and transplantation. A joint graduate degree in Laboratory Medicine and Pathology and Chemical Engineering exists for cryobiology research. The biopreservation specialization allows students to gain both scientific expertise in the low temperature sciences and extremely valuable practical skills in addressing the challenges that face the establishment and management of biorepositories and cell/tissue banks.
Specialization in Molecular Pathology focuses on the study of molecules within cells, tissues and body fluids to diagnose disease and investigate the mechanisms of diseases such as cancer and transplant rejection. These may include studies of changes in the regulation and/or composition of genetic material within cells, as well as the expression of molecules and their interactions with other molecules that result in disease. One of the goals of these studies is the identification of unique disease-associated molecular signatures that could assist in the diagnosis and management of disease. Students gain expertise in the use of bioinformatics and methods to study and modulate molecular changes within cells to explore mechanisms of disease.

At present, there is no degree specialization for applied microbiology but the hope is to establish one in the near future. Microbiology research in LMP includes predominantly applied investigation of the bacteria, viruses and fungi that cause disease. Students gain a variety of expertise in molecular methods to characterize microbes, investigate virulence factors associated with disease, bioinformatics, prevalence, surveillance and other topics related to public health.

There are no degree specializations in hematology, hematopathology or transfusion medicine but these topics often relate to research topics in biopreservation.

Our newest program, the course-based MSc in Laboratory Medicine and Pathology with Specialization in Pathologists’ Assistant is comprised of 8 months of coursework and 16 months of clinical practicum training in “grossing”, the visual examination of surgical specimens and processing for microscopic examination by pathologists, and training to assist in the conduct of autopsies. Students rotate through each of the hospital sites and the medical examiner’s office. During year 2, students also complete a research project. Graduates of this health professional training program are eligible to apply for national certification as a Pathologists’ Assistant.

**Academic faculty and staff recognized for excellence & commitment to training**

The vision of the LMP Graduate Program is excellence and commitment to training scientists to meet the future. The LMP Graduate Student Group selects someone from the faculty/staff each year to receive the LMP Staff Recognition Award to recognize individuals that go above and beyond to assist graduate students with organization, mentorship or education. One of the recipients is our Grad Program Advisor, Cheryl Titus, who is a wealth of information for any administrative information but is also a support on a personal level. LMP supervisors have also received awards beyond our department that arise from LMP student nominations. Dr. Greg Tyrrell received the University of Alberta Graduate Student Association Academic Staff Award (2004). Six LMP faculty have been recipients of the Faculty of Medicine and Dentistry Mentorship Award in recognition of their outstanding performance in the mentoring of students – 4 basic science recipients: Dr. Chris Le (2009), Dr. Locksley McGann (2010), Dr. Xing-Fang Li (2014) and Dr. Jonathan Martin (2015) - and 2 clinical recipients who also contribute to graduate student training: Dr. Gwen Clark (2014) and Dr. Kim Solez (2016). Dr. Locksley McGann chaired the committee that prepared the 2010 Recommendations for Improving Graduate Student Supervision at the University of Alberta during his term as Associate Dean, Faculty of Graduate Studies and Research.

**Elements of the LMP Graduate Program**

The delivery of outstanding graduate education experiences and professional training is our program’s mission. There are a number of required elements to our program: a minimum number of courses for each program, specific courses for degree specialization, a minimum cumulative GPA of 3.0, attendance and presentation at LMP rounds, ethics and scientific integrity training, and as of Fall 2016, the university requirement for each to student to prepare an Individual Development Plan to investigate career options. Doctoral students must pass a candidacy examination by the end of year 3 to be eligible to continue/complete their program. Thesis-based MSc and PhD students have a final examination that assesses the quality of their written thesis, oral presentation and oral defense of their work. Program length is typically 2.5-3.3 years for a MSc degree, and 5.5-6 years for a PhD degree.

Students are encouraged to participate in the annual Discovery, Research, Innovation and Education (DRIvE) Days, a joint LMP-Alberta Health Services conference, and present their research. Several awards are given for the best oral and poster presentations.
Our graduate program was an early adopter of supporting professional development opportunities for graduate students. The Bell-McLeod Education Fund supports graduate student professional development activities, as well as travel to present research at national and international conferences.

LABMP 530 *Experimental Design and Scientific Communication* is the only mandatory course for all students in our thesis-based programs as it provides exposure to topics and hands-on experience for the skills needed to be successful in their graduate programs. Several other LABMP courses were specifically developed for the training of our graduate students. The NSERC-CREATE program is a novel collaborative research and training program experience that allows students at three Canadian universities to take courses together in the field of environmental toxicology. LABMP 590 *Technology and the Future of Medicine* attracts students from a variety of faculties within the University of Alberta and beyond.

**We have excellent graduate students!**

Many LMP graduate students have won prestigious university, provincial and national awards, as a result of their excellent GPAs and publication of their work. One of our graduate students, Michal Zielinski, was selected to represent the University of Alberta and, along with a handful of other students from other Canadian universities, to represent Canada at the prestigious 2015 Lindau Nobel Laureate meeting in Germany.

**Where do our students find jobs?**

LMP graduate students have gone on to a variety of careers in government, health care, academia and the private sector (industry). Some have become scientific directors for national and global biorepositories and cell therapy companies. Others have gone on to complete clinical fellowship programs and obtained academic appointments with clinical laboratory positions and run large hospital labs.

**Challenges – What’s next?**

We have achieved much success with our graduate program, but challenges remain to meet the needs of our graduate students. Funding opportunities are limited… Time to program completion could be shorter… Additional areas of specialization are in demand… Diploma/certificate/laddered MSc degrees for Medical Laboratory Science graduates… More interdisciplinary experiences within their programs… Professionalization of their programs… Internationalization of graduate programs… Many of these ideas have been raised with the Faculty of Graduate Studies and Research and there is a strong movement for more flexible program structure. Stay tuned…

**Fun Fact:** This photo represents 4 generations of PhD scientists in our graduate program! Dr. Lockley McGann supervised Dr. Jason Acker who supervised Dr. Jelena Holvati who supervised Luciana da Silveira Cavalcante.
**New Appointments**

Dr. Xing-Fang Li has been appointed as a member of the Strategic Projects Selection Panel - Environment and Agriculture for a 3-year term ending March 31, 2010.

The Department welcomes:
- Dr. Heidi Paulin – Clinical Lecturer
- Dr. Angela Thompson – Clinical Assistant Professor
- Dr. Humaira Khanam – Clinical Assistant Professor
- Dr. Allison Edgecombe – Clinical Assistant Professor

**Grants**

Dr. Ben Adams received a grant for “Molecular injury and repair assessment in ex vivo perfused heart transplants” (PI: Adam). Heart and Stroke Foundation of Alberta, NWT and Nunavut (Research Leadership Fund Award). $50,000. 06/2017 -05/2018.

Dr. Michael Mengel has received a grant for $300,000 from Alberta Innovates for a project entitled “Alberta Laboratory for Precision Health”. 06/2017 – 12/2018.

Ms. Lisa Purdy along with co-investigators Roberta Martin-dale and Amanda Van Sprosen, has been granted $49,753.18 by: Teaching and Learning Enhancement Fund (TLEF) for a project entitled “Simulation: An Innovative Curricular Advancement to Instill Foundations of Lab Practice”. The research will add laboratory information system simulation and evaluation into the MLS program. 2017-2020.

Dr. Consolato Sergi is the principal applicant on the following two grants:
- “Digital PCR and NGS-based diagnosis for infection and oncology”. $120,000 from the Hubei Province Natural Science Funding. 2017/7 - 2022/4

**Awards**

Dr. Jason Acker was the recipient of the 2017 Canadian Society for Transfusion Medicine Ortho Award. The Ortho Award recognizes a member who has made significant achievements or has provided a major service or innovation in transfusion medicine. Award was presented at the 2017 CSTM Meeting in Ottawa on April 22, 2017. ([http://www.transfusion.ca/About-CSTM/Awards/2016-Award-Winners](http://www.transfusion.ca/About-CSTM/Awards/2016-Award-Winners))

Dr. Janet Elliott was awarded the 2017 Summit Awardee for Excellence in Education from the Association of Professional Engineers and Geoscientists of Alberta, Calgary, AB, April 28, 2017.

Ms. Anne Halpin received the Young Investigator Award from Adaptive Biotechnologies.

Dr. Luis Hidalgo has received the ASHI Scholar Award which is awarded to the presenters of the best abstracts submitted to the 43rd Annual Meeting of the American Society for Histocompatibility and Immunogenetics taking place in San Francisco this September. Dr. Hidalgo has been an active member of ASHI since 2008, has served on the Education Committee and currently serving on the Science and Technology Initiatives Committee.

Dr. Steve Hrudey, Professor Emeritus, has been inducted into the Alberta Order of Excellence in 2017. This is the highest honour available to Albertan citizens.
Grad Students & Post-Docs

Milestones

We are proud to announce that the following students have completed their doctoral programs.

Abdulraheem Alshareef (Dr. Raymond Lai, supervisor). His thesis is titled Delineating the Biology of Anaplastic Lymphoma Kinase and its Resistance to Crizotinib

Saurabh Garg (Dr. Rakesh Kumar, Dr. Robert Rennie, supervisors). His thesis is titled Design, Synthesis and Antimycobacterial Evaluation of a Novel Class of Chemotherapeutic Agents

Luciana da Silveira Cavalcante (Dr. Jelena Holovati, Dr. Jason Acker, supervisors). Her thesis is titled The Effects of Liposome Treatment on Red Blood Cells during Hypothermic Storage.

Evelyn Asiedu passed her doctoral candidacy examination.

A number of students received awards that acknowledge their research/support their graduate programs:

Brittney Loney has been awarded a Myer Horowitz Graduate Students’ Association Graduate Scholarship.

Albert Zuelke has been awarded a University of Alberta Doctoral Recruitment Scholarship.

Moinul Haque and Colin Lloyd have each been awarded a Frederick Banting and Charles Best-Canada Graduate Scholarship Master’s award, along with a Walter H. Johns Fellowship.

Colin Lloyd was awarded a Queen Elizabeth II Graduate Scholarship –Master’s level.

Mahalakshmi Kumaran was awarded a Mary Louise Irrie Graduate Student Award.

Nasim Eskandari (Dr. Janet Elliott, Dr. Locksley McGann, supervisors) Her thesis is titled Developing a cryopreservation protocol for human umbilical vein endothelial cells (HUVECs).

Photos courtesy of Mr. Tom Turner
Hematopathology Residents

Please join the Division of Hematopathology in welcoming Dr. Youness Elkhalidy to the residency program! Dr. Elkhalidy will begin his PGY-1 training on July 1, 2017 after graduating from the University of Alberta MD program.

Presentations

Dr. Jason Acker:
1. CSTM Annual Conference, Ottawa, ON April 20-23, 2017:
   - Acker, J.P. “Product-focused research, personalized transfusion medicine and the role of the development scientist in transfusion scientist”. 2017 Ortho Award presentation.
   - da Silveira Cavalcante, L., Acker, J.P., and Holovati, J.L. “Combination of liposomes and rejuvenation treatment for minimizing hypothermic storage lesion of red blood cells”.
2. DRIVE 2017. April 21, 2017:
   - Han, X., Howell, A., Blain, H., Nahirniak, S., Clarke, G., Acker, J.P. “Quality assurance in red cell components - Does frequency and total time of transportation event affect level of hemolysis”. Poster
   - Chan, C., Blain, H., Acker, J., Clarke, G., and Nahirniak, S. “Transfusion reactions to red cells – are theradonor issues at play?” Poster
3. Conventional Components Committee, Sydney, Australia, April 28, 2017:
   - Shih, A., Acker, J.P. and Heddle, N.M. “QMIP international pilot: Lessons Learned”.
   - Marks, D. and Acker, J.P. “Donor factors and blood processing methods that contribute to red cell hemolysis”.
6. Resident Seminar, University of Dalhousie, Halifax, March 24, 2017. Acker, J.P. “Are all red cell components equivalent? Exploring the impact of donor characteristics and manufacturing on red cell quality and transfusion outcomes”.
Presentations (cont’d)

Dr. Ben Adams:
1. 2017 USCAP Annual Meeting, San Antonio, TX, March 6, 2017:
2. 2017 Banff-SCT Joint Scientific Meeting, Barcelona, Spain (March 29, 2017):
   - Adam BA, Smith RN, Rosales IA, Afzali B, Oura T, Cosimi AB, Kawai T, Colvin RB, Mengel M. “Gene expression during development of chronic antibody mediated rejection in renal allografts from non-human primates: validation of markers used in humans and sequential changes in protocol biopsies”. Oral presentation.

Dr. Tanis Dingle:
2. AMMI-CACMID Meeting, May 3-6, 2017, Toronto, ON.
   - C. MacDonald, T.C. Dingle, A. Fehr, G. Tyrrell, P. Naidu. “Test method evaluation for a direct MALDI-TOF/MS identification protocol of organisms from positive blood cultures from the BD Bactec FX system”. (accepted for oral presentation – presented by C. MacDonald)
   - L. Turnbull, T.C. Dingle, P. Naidu. “Evaluation of chromogenic screening agars for the detection of carbapenemase producing organisms (CPO) and extended spectrum beta lactamase producers”. (accepted for poster presentation – presented by L. Turnbull)

Dr. Hanan Gerges:
1. CSTM 2017, Ottawa, April 20 - 23
   - Hanan Gerges, Susan Nahiriak, Gwen Clarke. “Rh Immunoglobulin (RHIG) prophylaxis post transfusion of Rh positive blood in females of child bearing potential”. (Poster)
   - Susan Nahiriak, Hanan Gerges. “Transfusion Medicine Calls - Impact on Technologist Time” (oral presentation)
2. ISLH 2017. Honolulu, Hawaii, May 3 - 6:
   - Hanan Gerges, Artur Szkotak. “Acquired factor V inhibitor in a patient with mixed ischemic and dilated cardiomyopathy” (poster)
   - Sarah Sy, Salwa El Malti, Susan Nahiriak, Hanan Gerges. “Predefined Criteria for cancellation of low clinical utility peripheral smear requests” (poster)
   - Hanna Gerges, Artur Szkotak. “Mean corpuscular volume assessment by pathologists versus automated analyser” (poster)
Presentations (cont’d)

Ms. Anne Halpin:
Abstracts (oral)
A Halpin, H Florea, L Hidalgo, J Shapiro, P Senior, L West, P Campbell. “Patient tailored crossmatch, do islet cell and pancreas transplants call for a different fit?” Transplant Science Symposium (TSS), Victoria, BC. March 24-26, 2017

Abstracts (poster)

Invited Presentations:
2. “Clinical Consequences of Pediatric Thymectomy”. Pediatric Grand Rounds, Edmonton, AB
3. Invited as Trainee to present abstract: “Antiotensin II Type I Receptor Antibodies: Potential Mediators of Inflammation and Role in Transplantation” CIHR Inflammation in Chronic Disease Networking Workshop, Quebec City, QC.

Dr. Judith Hannon:
1. CSTM 2017 Ottawa, ON April 20 – 23rd, 2017:

   Oral Presentation
   - Gwen Clarke, Nick Au, Brian Berry, Heather Blain, Hakan Buyukdere, Rose Gillett, Lee Grabner, Judith Hannon, Debra Lane, Della Logan, Charles Musuka, Susan Nahiriak, Ann Robinson, Sharon Sutherland, Leanne To. “Providing Kell negative red cells to female patients in Canada: The time has come.”


Dr. Jelena Holovati:
Invited Presentations:

Conference Abstracts / Presentations:
2. Canadian Society for Transfusion Medicine (CSTM), Ottawa, ON, April 2017
   - Cavalcante LS, Acker JP, Holovati JL. “Combination of liposomes and rejuvenation treatment for minimizing hypothermic storage lesion of red blood cells”. Poster Presentation

3. Discovery, Research, Innovation and Education (DRIvE) Days, Laboratory Services and Pathology, Edmonton, AB, April 2017

Dr. Iyare Izevbaye:
Poster presentations:
USCAP annual meeting, March 4-10, 2017, San Antonio, TX
   - Hanan Armanious, Benjamin Adam, Iyare Izevbaye. “Gene Expression Profiling by NanoString Discriminates Papillary Carcinoma, Follicular Carcinoma and Normal Thyroid Tissue”.

uab.ca/LMP
Presentations (cont’d)

Dr. Iyare Izevbaye (cont’d):
- Hanan Armanious, Iyare Izevbaye. “Nanostring Copy Number Variation Assay Is Very Sensitive in Identifying EGFR Amplification but Is Less Sensitive in Identifying Deletions in 1p/19q and PTEN Compared to FISH in Brain Tumors Samples”. USCAP annual meeting, March 4-10, 2017, San Antonio, TX.

Dr. Edward Johnson:

Dr. Nausherwan Mahmood:
“New AJCC staging of melanoma”. Provincial cutaneous team meeting. April 6th, 2017. Calgary, Alberta, Canada

Dr. Michael Mengel:
1. 14th Banff Conference on Allograft Pathology (March 27 – 31.) 2017. Barcelona, Spain:
   - “The NanoString technology and how it can enhance Anatomical Pathology”.
   - “Gene expression on FFPE EMB for the diagnosis of rejection in Heart Transplantation”.
2. Italian Society of Nephrology, Symposium “Hot topics in renal transplantation” (April 1. 2017) Genoa, Italy: “Banff 2017 meeting up-date and emerging topics”.

Dr. Susan Nahirmiak:
Oral Abstracts:
Nahirmiak S, Gerges H. Transfusion medicine calls - impact on Technologist Time. Canadian Society of Transfusion Medicine, Ottawa, Ontario, April 2017

Poster presentations:
1. Canadian Society of Transfusion Medicine. Ottawa, Ontario, April 21-23 2017
   - Duncan J, Chin PY, Nahirmiak S. Transfusion-Associated Graft Versus Host Disease in the Extremely Preterm Neonate: A Retrospective Cohort Analysis.
   - Gerges H, Clarke G, Nahirmiak S. Rh immune globulin (RhIG) prophylaxis post transfusion of Rh positive red cells in females of child bearing potential.

- Prokopchuk-Gauk O, Rutledge-Harding S, Nahirmiak S. Post Transfusion Purpura relapse after transfusion of washed red blood cells.
- Parker A, Blain H, Nahirmiak S. An audit of transfusion management of obstetric patients with massive hemorrhage.

2. LABCON, Banff, Alberta May 26-28, 2017
   - Kim YH, Blain H, Gerges H, Nahirmiak S. Are we using the right red cell units and plasma components for transfusion?

Ms. Lisa Purdy:
Refereed Poster Presentations:
LabCon, National Conference of Laboratory Professionals, Banff, May 25-28.
- Homer M, Purdy L, King S. 2017. “Development of a Multiple Mini-Interview for Admission to a Medical Laboratory Science Degree Program: The Blueprinting Process”.
- Martindale M, Purdy L. 2017. “Resiliency as a Marker for Well-Being in Medical Laboratory Science Students”.

Dr. Iveta Sosova:
Invited Speaker:
Iveta Sosova, Josephine Ho and Courtney Felker. “Newborn Metabolic Screening Pathway in Alberta: An Update”. Paediatric Grand Rounds, University of Calgary, April 12, 2017

Abstracts:
Presentations (cont’d)

Dr. Iveta Sosova (cont’d):
2. Iveta Sosova, Marisa Chard, David S. Sinasac and Walla Al-Hertani. “Challenges in detecting methylmalonic acidemia on newborn screening using an underivatized tandem mass spectrometry (MS/MS) method”. Garrod Symposium, Montreal, Quebec, May 4-6, 2017

Dr. Kathleen Wong:

Recent Publications

Dr. Jason Acker:

Dr. Ben Adams:

Dr. Tanis Dingle:

Dr. Janet Elliott & Locksley McGann:
Recent Publications (Cont’d)

Dr. Janet Elliott & Locksley McGann: (cont’d):

Dr. Mathew Estey:

Dr. Hanan Gerges:

Dr. Jelena Holovati:

Dr. Iyare Izevbaye:
Peer review article:

Dr. Michael Mengel:

Dr. Susan Nahirniak:
Peer reviewed publications:
Recent Publications (cont’d)

Dr. Susan Nahirniak (cont’d):
Non-peer reviewed publications:

Dr. Karina Rodriguez-Capote:

Dr. Consolato Sergi:

Dr. Iveta Sosova:
Peer-reviewed papers
Awards & Highlights

Oral Presentation Winners with Dr. Michael Mengel
- Peter Dromparis - Category - Resident
- Hanyong Peng - Category - Post-Doctoral
- Albert Zuehlke - Category - Grad Student - MSc
- Carrie Malin - Category - MLS / Summer Student
- Lindsay Blackstock - Category - Grad Student - PhD

Poster Presentation Winners with Dr. Michael Mengel:
- Jing Yang (Peter) Xu - Category - MLS / Summer Student
- Bryce Macek - Category - Resident
- Brittney Loney - Category - Grad Student - MSc
- Ashley Newbigging - Category - Grad Student - PhD
- Candace Betiku & Navkiran Randhawa - Category - MLT / Lab Scientist
- NOT PICTURED - Eloisa Hasing - Category - Post-Doctoral
Clinical Pathology Teacher of the Year Award

Dr. Kathleen Wong
(photo not available)

presented by Dr. Tara Dixon

Anatomical Pathology Teacher of the Year Award

Dr. Todd Chaba

Presented by Drs. Kim Wood and Jeff Tompkins

Staff Appreciation Award chosen by LMP Students' Group

Dr. Hongquan Zhang

Presented by Lindsay Blackstock and Ashley Newbigging
Dr. Philip Awadalla, PhD  
Professor, Dept of Molecular Genetics  
University of Toronto  
Principal Investigator & Director  
Genome Canada Canadian -  
Data Integration Centre  
OICR Senior Principal Investigator & Director  
Ontario Institute for Cancer Research  
Toronto, ON

Dr. John W. Macgregor Memorial Lecturer

Dr. Mark A. Cervinski, PhD  
Assistant Professor of Pathology & Laboratory Medicine  
Director of Clinical Chemistry  
Director of Point-of-Care Testing  
Diplomat of the American Board of Clinical Chemistry  
Dartmouth-Hitchcock Medical Center  
Lebanon, New Hampshire

Dr. RE Bell Memorial Lecturer

**DRiVE Day Judges**

**Oral Presentations**
- Dr. Mark Cervinski  
- Dr. Consolato Sergi  
- Dr. Mireille Kattar  
- Dr. Roger Leng  
- Dr. Nadia Giannakopoulos

**Poster Presentations**
- Dr. Karen Matejka  
- Ms. Mary Chow  
- Ms. Rebecca Paliwoda  
- Dr. Mireille Kattar  
- Ms. Karen MacCollum  
- Dr. Qingqing Liu  
- Ms. Xiufen Lu  
- Dr. Monika Keelan  
- Dr. Zhixin Wang  
- Mr. Michael Reid  
- Ms. Harriet Evans  
- Dr. Josh Raizman  
- Ms. Stacey Hagan  
- Ms. Roberta Martindale  
- Ms. Deanna Manna  
- Dr. Kareena Schnabl  
- Dr. Yanming Liu

*Thank you!*
Banff Pathology Course –
Soft Tissue, Bone & Dermatopathology

August 30-September 2, 2017
Banff Centre for Arts and Creativity

www.banffpathologycourse.com