Dear Friends & Colleagues!

Welcome to the first Chair’s Report in 2017!

The provincial Lab Services Transition and Hub Lab Planning Project are approaching critical decision points over the next few months related to the provincial budget planning process. Thank you to all of you who are investing significant time and effort in contributing to User Groups and other planning activities. This is important work in shaping our future.

Please join me in welcoming our new faculty members (page 4 of the report) and in congratulating Dr. Banu Sis for her recent appointment as a national grant panel member for prestigious funding agencies in her area of expertise. With every Chair’s Report I’m impressed by all the scholarly activities and impactful academic products our faculty are producing quarter per quarter in times of limited resources and tight budgets. This demonstrates a fundamental commitment to our academic mission by all our faculty. I hope that you continue gaining gratification from participating in our academic work, and I will continue to strive for finding the support you need to be successful in your academic pursuits over 2017.

Please review our Spotlight on Education. In this issue the Anatomical and General Pathology Residency Programs are introduced to you. We just completed another round of CARMS interviews for our residency programs. All residency programs are facing the exciting and challenging transition to Competency Based Learning, which in our case is falling together with an up-coming accreditation review. I would like to thank all members of our department for your ongoing support of our training programs. We have outstanding trainees and programs which make ourselves sustainable in patient care and academic success. This would not be possible without the countless hours all of you contribute to teaching! In this issue we are highlighting one of our most accomplished and respected educators and mentors Dr. Larry Jewell. The naming of our Pathology Museum was recently approved by the University Board as a sign of our gratitude for his significant contributions to the department. Please visit the Museum when you can. It offers a fantastic venue to teach the next generation of health professionals!

We have an exciting year ahead with the first major event occurring on April 21 & 22. Mark your calendar for the 2017 DRIvE Days. Also this summer on August 30-September 02, we are co-hosting the Banff Pathology Course (page 10) together with our colleagues from the University of Calgary and in partnership with the Canadian Association of Pathologists. I hope I can see you all at these events for discussing your projects and research, a casual chat and maybe a drink!

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

Dripping water
hollows out stone,
...Not through force,
But through
Persistence
Anonymous
Spotlight on Education

Anatomical Pathology - Dr. Will Chen, Program Director,
General Pathology - Dr. Dean Tung, Program Director

Pathologists are medical doctors who diagnose disease through the analysis of organs, tissues, body fluids and whole bodies (in the case of autopsies). Following graduation from medical school, completion of a residency program is required in order to be licensed to practice independently as a pathologist. The Anatomical Pathology (AP) and General Pathology (GP) residency programs at the University of Alberta are 5-year training programs accredited by the Royal College of Physicians and Surgeons of Canada, which is the accrediting body for all residency training programs in the country. Upon completion of the program, graduates are qualified to practice pathology independently in Canada and the United States.

Medical students apply to our programs through a national matching system known as CaRMS during the last year of medical school. Each year, up to 3 AP and 1 GP residents are accepted. Currently, we have 16 AP residents and 5 GP residents throughout all years of training. All residents typically begin residency in July following medical school graduation. Residency training can be considered a form of “apprenticeship” in which the majority of the time is spent “on the job” gaining hands-on experience with a minimal amount of didactic learning in classrooms. The first year of residency consists of a basic clinical year in which residents rotate through various clinical specialties such as internal medicine, surgery, pediatrics, oncology, etc. The remaining 4 years are generally spent exclusively in the laboratory setting training in the various fields of pathology.

Residents rotate through most of the Edmonton hospitals, including University of Alberta Hospital, Cross Cancer Institute, Grey Nuns Hospital, Misericordia Hospital and Royal Alexandra Hospital. They also rotate through Dynalife Medical Laboratories, which performs most of the outpatient laboratory testing in our region, and the Medical Examiner's Office, which performs forensic autopsies. Each rotation is 4-8 weeks in duration. AP residents rotate through surgical pathology and its subspecialty fields (e.g. lymphoma, dermatopathology, breast, gynecologic pathology), cytopathology, neuropathology, autopsy pathology, forensic pathology and molecular pathology. A typical day has a resident following a staff pathologist and performing all duties of the staff pathologist under appropriate supervision. They also perform macroscopic examination of specimens under the supervision of pathologists or experienced pathology assistants. For one half day each week, didactic lectures and journal clubs are attended by all residents. Teaching of junior residents and medical students is also an essential component of their training. Residents are required to complete a research project during the course of their training and have the option to complete a graduate degree or undertake 2 years of intensive research training as part of the Clinician Investigator Program offered by the Royal College.

In addition to the aforementioned AP rotations, GP residents also complete a combined total of 18 months in Hematopathology (including hematologic diseases, coagulation and transfusion medicine),
Spotlight on Education (Continued)

Medical Microbiology (testing for infectious diseases) and Clinical Biochemistry (variety of fluid testing with emphasis on quality control/assurance). In addition to teaching and research, GP residents are also involved in helping manage laboratories in small rural hospitals/medical centers. At the end of residency, GP residents are readily able to practice in small community hospitals and rural hospitals where coverage of multiple lab medicine disciplines is required. Like AP residents, GP residents can also complete a fellowship program after residency if the desire is to work as a specialist/consultant in a tertiary hospital.

In the final year of residency training, all residents in Canada travel to Ottawa to take the Royal College certification examination in their specialty, which is a prerequisite for independent practice. Our programs have successfully trained many pathologists who practice throughout Edmonton and across the country, making valuable contributions to patient care and their respective fields of expertise. We hope to continue training excellent pathologists, a task that will be enhanced by exciting changes in the field of medical education as we move toward competency based learning in the years to follow.

Bottom Row (Left to Right):
Asifa Amin, Nicole Delaney, Zainab Alshamma, Jeff Tompkins, Joseph Andrews

Middle Row (Left to Right):

Back Row (Left to Right):
Peter Dromparis, David Beyer
**New Appointments**

The Department welcomes:
- **Mr. Barry Babiuk** - Clinical Lecturer
- **Dr. Tanis Dingle** - Assistant Professor
- **Dr. Saad Khan** - Clinical Assistant Professor
- **Dr. Angela Miller** - Clinical Lecturer
- **Dr. Tyler Verdun** - Clinical Lecturer

**Dr. Banu Sis** has been appointed Member of three National Grant Review Panels:
- Member of Bioscientific Grant Review Committee, The Kidney Foundation of Canada (2016-2019)
- Member of Research Innovation Grant Review Panel, Canadian National Transplant Research Program (2016 - )
- Member of Grant Review Panel, Project Grant Program, CIHR (2017 - )

---

**Grants**

**Dr. Michael Mengel:**
1. “Transplant Glomerulopathy as an end-point in clinical trials for antibody-mediated rejection in kidney allografts: quantification, reproducibility, molecular correlates, and clinical validity”. Shire Inc. $250,000. 10/2016-10/2017
2. “Molecular quantification of tissue injury and repair pre, during, and post ex-vivo perfusion of swine lung transplants”. CNTRP - Canadian National Transplant Research Program$25,000. 01/2017-12/2017.
3. “CAN DSA 1000: The Canadian 1000 DSA Project. Canadian Society of Transplantation”. $100,000. 10/2016-10/2017

**Dr. Banu Sis** has received an operating grant from the University Hospital Foundation Medical Research Competition, with a research project entitled
"Understanding the aggressive form of nonalcoholic fatty liver disease: molecular analysis and biomarker discovery for outcomes" (P.I.: Sis) ($35,000 for one-year)

---

**Extra**

**Drs. Janet Elliott & Locksley McGann:**
In cooperation with the research groups of Jason Acker and Jelena Holovati (LMP) and Nadr Jomha (Surgery), we organized the Extreme Cryo 2017 symposium which was held on January 27-28 in the Donadeo Innovation Centre for Engineering. The purpose of Extreme Cryo is to promote interdisciplinary discussion and collaboration among research groups interested in the broad area of biopreservation, an enabling technology for the use of cells, tissues and organs in clinical transplantation and regenerative medicine and in novel biotechnologies.

This year’s topic “Breaking the ice: Opening opportunities in cell, tissue and organ preservation, tissue engineering and other cool research” brought as keynote speakers Dr. Lori West (Director of the Alberta Transplant Institute), Jedd Lewis (President and CEO of the Organ Preservation Alliance, USA) and Dr. Edmond Young (University of Toronto). The symposium was sponsored by the University of Alberta’s Office of the Vice-President for Research, Faculty of Medicine and Dentistry (Departments of Laboratory Medicine & Pathology, and Surgery), Faculty of Engineering (Department of Chemical & Materials Engineering) and by Alberta Innovates. There were 55 participants in this year’s symposium.
Grad Students & Post-Docs

Milestones

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

Nancy Gupta (Dr Rakesh Kumar and Dr Dennis Kunimoto, supervisors). Her thesis is titled *Novel strategies to prevent and/or treat tuberculosis*.

Qingqing Liu (Dr X Chris Le, supervisor). Her thesis is titled *Speciation of arsenic metabolites in chicken meat and in human cells*.

Ashok Narasimhan (Dr Sambasivarao Damaraju and Dr Vickie Baracos, supervisors). His thesis is titled *Profiling and Identification of post-transcriptional regulatory molecules for Human Cancer Cachexia*.

Lacey Haddon passed her doctoral candidacy examination.

Awards

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

Moinul Haque has been awarded a *Faculty of Medicine & Dentistry/ Alberta Health Services Graduate Student Recruitment Studentship*.

Lindsay Blackstock, Nasim Eskandari, Ian Gault, Mahalashkmi Kumaran, and Colin Lloyd have each been awarded a *Faculty of Medicine & Dentistry 75th Anniversary Award*.

Gurnit Kaur, Angela Ma, Ashok Narasimhan, and Jeffrey Tao have each been awarded a *Medical Sciences Graduate Program Scholarship*.
Dr. Jason Acker:
Published Abstracts

Dr. Benjamin Adam:

Dr. Gwen Clarke:
AABB Annual Meeting - October 22 - 25th, 2016 Orlando Florida
2. Invited Presentation: “Targeted Transfusion and RhIG Prophylaxis; Comprehensive Perinatal Management”.

Drs. Janet Elliott & Locksley McGann:
Oral Presentations at Extreme Cryo 2017, University of Alberta, January 27-28, 2017:
2. Leah A. Marquez-Curtis, Locksley E. McGann and Janet A. W. Elliott. “Expansion and cryopreservation of corneal endothelial cells – for your eyes only”

Dr. Mathew Estey:
Presentations (cont’d)

Dr. Jelena Holovati:


Dr. Don LeGatt:

Dr. Michael Mengel:
Invited lectures:


3. French Speaking Society of Transplantation 2016 December 06. – 09. Liege, Belgium: “Take home messages from the latest Banff classification”.

Dr. Karina Rodriguez-Capote:

Dr. Dylan Thomas:
**Recent Publications**

**Dr. Jason Acker:**

**Dr. Atikullah Baborie:**

**Dr. Linda Chui:**

**Dr. Gwen Clarke:**

**Papers:**
Dr. Gwen Clarke (cont’d):

Dr. Steven Drews:

Drs. Janet Elliott & Locksley McGann:

Dr. Mathew Estey:

Dr. Judith Hannon:

Dr. Jian-Qiang Lu:
Recent Publications (cont’d)

Dr. Jian-Qiang Lu (Cont’d):


Dr. Michael Mengel:

Peer-reviewed publications


Dr. Joshua Raizman:


Ms. Amanda VanSpronsen & Mr. Valentin Villatoro:
“Should we grant individuals direct access to laboratory testing?” Canadian Journal of Medical Laboratory Science, 2016, Vol. 78, No. 3, Page 18-21

Banff Pathology Course 2017
The Banff Pathology Course is a collaborative effort of the Canadian Association of Pathologists (CAP-ACP), Department of Laboratory Medicine and Pathology, University of Alberta and the Department of Pathology and Laboratory Medicine, University of Calgary to provide a continuing medical education activity for practicing pathologists and residents in training.

Bone, Soft-Tissue, and Dermatopathology

August 30-September 2, 2017
Banff Centre for Arts and Creativity
107 Tunnel Mountain Dr,
Banff, AB

Dr. Jewell received his Doctor of Medicine at the University of Alberta in 1968, followed by his residency in Anatomical Pathology at the University of Toronto between 1969 and 1973. After completing his residency, he returned to Edmonton as a Staff Pathologist in 1975 when he assumed an Assistant Professorship in the Department of Laboratory Medicine & Pathology. During his career at the University of Alberta, he assumed numerous leadership roles in the health care system and in our academic institution including Residency Program Director, Divisional Director and membership of numerous faculty committees. In addition Larry became an internationally recognized scholar in his area of expertise (liver and gastrointestinal pathology) highlighted by the fact of being involved as reference pathologist in numerous research studies (surmounting to more than 90 peer reviewed publications and numerous book chapters) and recognized by the election as the President of the Canadian Association of Pathologists in 1997.

Dr. Jewell served the University for more than 30 years and is among the most outstanding citizens in the Department of Laboratory Medicine & Pathology and the highest respected members within the Faculty of Medicine & Dentistry. He served on every possible department and faculty committee, is well known as a strong collaborator, excellent diagnostician and outstanding mentor and leader. Mentorship was and is his most exceptional contribution throughout his career. Larry was (and still is) the person to go to and ask for advice in difficult situations. Numerous trainees and mentees of Larry, within and outside of pathology, assumed leadership roles at various local, national, and international organizations (including the current Dean of Medicine & Dentistry and Chair of the Department of Laboratory Medicine & Pathology).

Even after his retirement from his faculty position, Larry has continued to serve as a teacher, physician, and consultant across Edmonton at various hospitals while continuing to contribute as a mentor and advisor to numerous academic projects. His mere involvement in projects and process always set the right tone, was inspiring, and by that instrumental in facilitating success. Dr. Jewell is the most exemplary role model for our department. His mentorship and leadership contributions to the Department of Laboratory Medicine and Pathology are unprecedented and exceptional, not only facilitating local success, productivity, and integrated community sense, but also contributing to our national and international reputation as one of the leading training institutions in anatomical pathology, and a widely known center of excellence for liver and gastrointestinal pathology.
DRIvE 2017

This event is registered as:

- A group learning activity (Section 1) as defined by the Maintenance of Certification Program of The Royal College of Physicians and Surgeons of Canada
- An educational activity for the CMiLTA (College of Medical Laboratory Technologists of Alberta)

Registration for DRIvE Days is free but REQUIRED
To register go to: https://goo.gl/forms/Ifk5px7HlwxJg22x2

Tickets - Awards dinner & reception - Friday, April 21, 2017
Faculty, Physicians, Directors, Managers - $95
Staff, Technologists - $25
Residents, Students, Trainees - No charge

Tickets - Breakfast & Lunch - Saturday, April 22, 2017
Faculty, Physicians, Directors, Managers - $65
Staff, technologists - $25
Residents, Students, Trainees - No charge

Location: Bernard Snell Lower Foyer / Upper Foyer / Theatre / Classroom D / Classroom F, Walter MacKenzie Centre, University of Alberta Hospital, 8440-112 Street, Edmonton, AB

Parking: available at a number of parkades. Bus and LRT are accessible. For more information contact: RegionalParking@albertahealthservices.ca or visit AHS website.

For detailed information, please see www.uab.ca/drive
or contact:
AHS: Lisa Saliyzen - Lisa.Saliyzen@albertahealthservices.ca
U of A: Zara Ahmed – zara.ahmed@ualberta.ca

Discovery, Research, Innovation and Education
Friday, April 21, 2017
Bernard Snell Upper & Lower Foyer

**Discovery & Research Sessions**
In this session, trainees will present novel research results generated in the Department of Laboratory Medicine and Pathology.

- 8:00-8:15 - Registration
- 8:15-10:00 - Oral Presentations / Poster set up
- 10:00-10:15 - Break
- 10:15-12:00 - Oral Presentations
- 12:00-1:00 - Lunch

**Innovation Sessions**
In this session, recent innovations, new assays, platforms, and processes in Laboratory Services and Pathology in the Edmonton Zone will be presented.

- 1:00-3:00 - Oral Presentations
- 3:00-4:00 - Break & Poster Viewing & Judging
- 4:00-4:15 - Presentation Awards / Teacher Awards / Macgregor Introduction
- 4:15-5:15 - Dr. John W. Macgregor Memorial Lecture
  Dr. Philip Awadalla
  Ontario Health Study
  Toronto, Ontario

- 5:15-8:00 - Dinner

Saturday, April 22, 2017
Bernard Snell Upper & Lower Foyer
Classroom A, B, D & F

**Education Sessions**
In parallel sessions, educational lectures and seminars will offer knowledge updates relevant to the various sub-specialties of laboratory services and diagnostics.

- 7:45-8:30 - Registration & Continental Breakfast / Poster set up
  (All session details are posted on the website at www.uab.ca/DRIVE)
- 8:00-8:50 - Session 1 (LEaRN / AP - Year in Review)
  1. Dept. of National Defence Techn  2. Dr. Josh Razman
  3. TBA  4. AP - Year in Review
- 9:00-9:50 - Session 2 (LEaRN / AP - Year in Review)
  1. Dr. Patrick Nolan  2. Andrea Konat
  3. TBA  4. AP - Year in Review
- 10:00-10:45 - Extra Session (concurrent with Poster Judging)
  1. AP - Year in Review
  2. Poster Viewing & Judging
- 10:45-11:00 - Poster Awards & RE Bell Lecture Introduction
- 11:00-12:00 - Dr. RE Bell Memorial Lecture
  Dr. Mark Cervinski
  Dartmouth-Hitchcock Medical Center
  Lebanon, New Hampshire
- 12:00-1:00 - Lunch
- 1:00-1:50 - Session 3 (LEaRN / AP - Year in Review)
  1. Grad Student Career Workshop  2. Navaneet Lys
  3. TBA  4. AP - Year in Review
- 2:00-2:50 - Session 4 (LEaRN)
  1. Resident Career Workshop  2. Dr. Karoena Schnabl
  3. TBA  4. AP - Year in Review
- 3:00-3:30 - Closing Remarks

**For detailed information & printable brochure, please see:**
www: uab.ca/drive