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LMP Chair's Report - June 2026

1 message

Dr. Benjamin Adam <Impadmin@ualberta.ca>

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Laboratory Medicine & Pathology

Chair's Report June 2026

Dear Colleagues, Learners & Friends!

In this June Chair's report, we are thrilled to highlight many successes from another exciting academic year in the Department of Laboratory Medicine & Pathology.

On April 24-25, 2026, we hosted **DRive Days**, our department's annual research and education symposium, at Lister Centre. In addition to the usual networking opportunities and research, innovation, professional development and education updates, we were honoured to welcome two outstanding speakers for our named lectures:

Dr. Hanadi Sleiman from McGill University (Dr. John W. Macgregor Memorial Lecture) and **Dr. Louis Hugo Francescutti** from the University of Alberta, School of Public Health (Dr. R.E. Bell Memorial Lecture). These talks were complemented by several fantastic lectures from other local faculty, as well as oral and poster abstract presentations from our trainees, the quality and breadth of which were once again truly inspiring.

On June 4, 2026, we held our annual **Graduation and Promotion Celebration** at the University Club to both celebrate the achievements of our graduates and recognize the contributions of our outstanding preceptors, instructors and teachers, including many academic and clinical faculty that received promotions this year. Congratulations to all!

This edition's **Spotlight on Education** highlights recent work from **Dr. Melanie Bodnar** and **Dr. Gwen Clarke**, who partnered with other Hematological Pathology programs across Canada to launch an innovative **Immunohematology Camp** to address a gap in standardized training and help HP residents achieve their required competencies. This virtual program utilizes a "flipped classroom" approach, where residents deliver didactic lessons based on provided resources, followed by faculty-led, interactive case

discussions. This provides an inspiring example of applying innovative strategies to address a challenge common to many of our subspecialty areas.

I encourage you to review the ever-impressive list of academic contributions and achievements from LMP members over the last quarter, including numerous presentations, publications, grants, recognitions, and awards. I would also like to extend a warm welcome to the new learners and faculty that have recently joined our department. I look forward to working with you all.

For those interested in pathology, please mark your calendars for the **2026 Banff Pathology Course (Gastrointestinal Pathology)** on September 10-12, 2026 at the Banff Centre for Arts & Creativity, which again promises to be a fantastic event with several outstanding local and international speakers: <https://banffpathologycourse.com/>.

Finally, as we celebrate the end of another successful academic year, I wish you all a happy and healthy summer. Please take some time to recharge so you can return with renewed energy to continue your valuable contributions to the Department next year. Thanks again for all you do!

Sincerely,

Benjamin Adam, MD, FRCPC

Associate Professor and Chair

Department of Laboratory Medicine & Pathology

Spotlight on Education

The Launch of Immunoematology Camp

Dr. Melanie Bodnar

Hematopathologist and Clinical Associate Professor

Department of Laboratory Medicine and Pathology

Dr. Gwen Clarke

Hematopathologist and Clinical Professor

Department of Laboratory Medicine and Pathology

Background

Hematological Pathology (HP) training includes required competencies in the practice of transfusion medicine. Central to this practice is a comprehensive understanding of the immunoematologic tests that are used to ensure patients receive safe, compatible blood components for transfusion and pregnancies at risk of complications from alloimmunization are appropriately managed. Education in the HP program involves laboratory and clinical training experiences as well as a formal didactic curriculum delivered through academic half day.

Over the last several years the University of Alberta Division of Hematological Pathology has partnered with other Canadian HP programs to offer an innovative “Distributed” Academic Half Day (DAHD). HP residents from across Canada join one another virtually for two sessions each month (usually for two hours at a time) benefiting from the expertise of physicians and faculty from across the country while developing collegial relationships. This model allows experts from across the country to contribute to the educational experiences of residents in all programs.

Discussions with the DAHD program director, Dr Youness El Khalidy (U of A Hematological Pathology Residency Program Alum) indicated that a 2-hour monthly timeslot could be dedicated to immunohematology content. Taking advantage of this virtual and distributed model, we have developed and delivered a new immunohematology teaching program over the past academic year.

Why was this training needed?

Current and former residents and program directors alike noted that dedicated, formal teaching in immunohematology theory and practice was limited and variable in scope amongst the different programs.

Knowledge and expertise in this field of practice is a requirement of the Royal College of Physicians and Surgeons of Canada training in HP with several well defined competencies that trainees must achieve to fulfill qualification requirements (RCPSC Competencies <https://www.royalcollege.ca/content/dam/documents/ibd/hematological-pathology/hematological-pathology-cbd-competencies-e.pdf>).

Immunohematology is concerned with evaluating red cell antigens and antibodies in order to provide for safe, compatible red cells for transfusion and to diagnose and treat immune mediated hematologic disorders, including hemolytic disease of the fetus and newborn (HDFN). From a practical perspective residents need to understand basic and complex immunohematology testing in the transfusion laboratory in order to successfully undertake after hours on call coverage including their role in helping to select safe blood for transfusion, to consult with the clinical team in the setting of patients with complex transfusion needs (for example, patients with sickle cell disease) and to contribute to the policies and procedures of the transfusion medicine laboratory.

How was the curriculum developed and delivered?

Modeled on the Immunohematology courses designed for the Specialist in Transfusion Science MSc program, the curriculum content for the HP resident curriculum was devised as a stepwise approach to learning immunohematology. Initial sessions provided an introduction to basic transfusion testing including blood groups and antibody screening, with a focus on test methodologies and technical aspects such as the use of appropriate laboratory controls and reagents. Subsequent sessions evolved to include gradually more complex investigations and clinical circumstances.

All sessions employ a “flipped classroom” approach with a preassigned duo of residents (junior and more senior) preparing and delivering a didactic lesson based on objectives and resources provided by course preceptors. Following this resident-led teaching, the

assigned faculty members provide a series of real-life cases to reinforce the learning objectives through interactive case-based discussion.

Approximately one month prior to the session the residents are provided with a comprehensive list of learning objectives along with questions to be answered during their presentation. In addition, a curated list of resources for self directed learning are provided. Some of these are “required” reading / viewing for all residents prior to the session whereas others are optional or supplemental learning tools. These resources span peer reviewed publications, educational videos, podcasts and blog posts from reliable education providers and are specific, each month, to the topics covered in the objectives.

In addition to the two of us, participating faculty for this first year of the pilot project included Dr. Susan Nahirniak from the University of Alberta, Dr. Matthew Yan and Dr. Ann Tran from University of British Columbia, Dr. Akash Gupta from University of Toronto and Dr. Celina Montemayor from Carter Blood Center in Houston Texas.

What are the next steps for this program?

This first year was our pilot project, with a plan to repeat the series every 2 years so that each cohort of residents will have the opportunity to see the material two times during residency training.

We plan to undertake a comprehensive evaluation of the content and format based on resident and program director feedback at the conclusion of the first series of presentations. Based on this feedback, changes to content, resources and format will be implemented.

In addition, development of a pre and post “test” to help inform whether knowledge acquisition can be documented is under consideration. We hope to compile the comprehensive case studies as an e-book that will serve as an ongoing resource for training both within and outside the parameters of this course. We are also considering options to ensure that course administration, scheduling and formatting are managed consistently and that the teaching program can be maintained in the long term.

Finally, publication of the process involved in course development and delivery may help inform similar training programs for other audiences including trainees in the Area of Focused Competency (AFC) Transfusion medicine, undergraduate medical lab technology students or international audiences.

Why is it called Immunohematology Camp?

The name of the program is a nod to the well established and highly successful Transfusion Camp developed by Canadian Transfusion Medicine colleagues which focuses on content related to the clinical aspects of transfusion medicine. Transfusion Camp education is directed to a broad audience of post graduate medical trainees (including anesthesia, obstetrical, clinical hematology and pathology specialties) and nurse practitioner colleagues involved in prescribing blood components and blood products.

You can find out more about Transfusion Camp at: <https://professionaleducation.blood.ca/en/transfusion/courses/transfusion-camp-0>



Acknowledgements: With thanks to Crystal Brunk for creation of the logo and for all the behind the scenes work on presentation tools and organization of content

New Appointments

The Department welcomes:

- Ms. Gabrielle Mendler, Clinical Lecturer – Pathologists' Assistant, Multiple hospital sites in Edmonton
- Dr. Danielle Anderson, Clinical Lecturer – Transfusion Medicine Physician, Multiple hospital sites in Edmonton
- Ms. Leeyang Lau, Clinical Lecturer – Pathologists' Assistant, Multiple hospital sites in Edmonton
- Ms. Taylor Pierce, Clinical Lecturer – Pathologists' Assistant, Multiple hospital sites in Edmonton
- Dr. Sivanthini Palanivetrpillai, Clinical Lecturer – Medical Microbiologist, APL Base Lab
- Dr. Anita Lal, Assistant Clinical Professor, Forensic Pathologist, OCME Calgary
- Dr. Mitra Afsharpad, Clinical Lecturer, Hematopathologist & Anatomical Pathologist, UAH
- Ms. Julianne Enriquez, Clinical Lecturer, Forensic Pathology Technologist, OCME Edmonton
- Ms. Lisa Barrett, Clinical Lecturer, Forensic Pathology Technician, OCME Edmonton
- Mr. Ian Thomson, Clinical Lecturer, Forensic Pathology Technologist, OCME Edmonton

New Appointments for Faculty/Clinical Faculty:**Dr. Jason Acker**

· Adjunct Professor, Laboratory Medicine & Pathology (Dr. Acker's primary faculty appointment has moved to the Department of Biomedical Engineering in the Faculty of Engineering)

Dr. Susan Nahirniak

· Chair, ICTMG Guideline Development Group on Platelet Transfusion Refactoriness - February 2026

Promotions

FEC Promotions effective July 1, 2026

Dr. Carmen Charlton - Promoted to Professor (Special Continuing)

Ms. Lisa Purdy – Promoted to Professor

Clinical Faculty Promotions effective July 1, 2026

Dr. Mona Anand - Promoted to Associate Clinical Professor

Dr. Imran Chaudhry - Promoted to Associate Clinical Professor

Dr. Maha Haddad - Promoted to Associate Clinical Professor

Ms. Danielle Lee Davis - Promoted to Associate Clinical Professor

Dr. Prenilla Naidu - Promoted to Associate Clinical Professor

Dr. Joseph Andrews - Promoted to Assistant Clinical Professor

Dr. Siddhartha Dalvi - Promoted to Assistant Clinical Professor

Dr. Rambod Daneshfar - Promoted to Assistant Clinical Professor

Dr. Peter Dromparis - Promoted to Assistant Clinical Professor

Dr. Ashley Newbigging - Promoted to Assistant Clinical Professor

Ms. Joanna Pearce - Promoted to Assistant Clinical Professor

Dr. Dalila Villalobos - Promoted to Assistant Clinical Professor

Save the Date!

UNIVERSITY OF
CALGARY
UNIVERSITY
OF ALBERTA

banffpathologycourse.com

2026 Banff Pathology Course: Gastrointestinal Pathology September 10-12, 2026



John A. Hart, MD
University of Chicago



Gregory Y. Lauwers, MD
Moffit Cancer Center



Rish K. Pai, MD, PhD
Mayo Clinic

[Banff Pathology Course](#)

[Register Here](#)

Graduate Studies

Awards

Congratulations to these students who received awards acknowledging their research and/or supporting their graduate programs:

Canada Graduate Research Scholarship – Master's (CGRS M) / Walter H Johns Graduate Fellowship

- Mason D'Souza
- Garrett Grubisa
- Gursevak Uppal
- Ethan Simpson

Canada Graduate Research Scholarship – Doctoral (CGRS D) / President's Doctoral Prize of Distinction (PDPD)

- Zoe Turner

Bell McLeod Educational Fund – Citizenship Award

- Serena Li
- Zoe Turner

2026 ATI Trainee Award (awarded April 1, 2026 - supported by the Alberta Transplant Institute)

- Donald Grynoch

Updates

ADMISSIONS: We have admitted a cohort of 2 for the Fall 2026 intake of the Pathologists' Assistant program and are in the process of evaluating applications for the MSc Molecular Diagnostics and MSc Transfusion Science programs. Interviews will be held in the summer. Thesis MSc/PhD program admissions are ongoing, with two MSc students being admitted for so far the Fall 2026 uptake.

ACCREDITATION: Self study documents have been submitted for the MSc Pathologists' Assistant program accreditation (NAACLS). Documents for Molecular Diagnostics are currently being prepared for summer submission.

MILESTONES: The Transfusion Science MSc program was promoted by Chris Ward (program director) at the Canadian Society for Transfusion Medicine 2026 conference in Hamilton ON in June. First anticipated graduating student of the program Sarah McMahon presented a poster at the conference.

Medical Laboratory Science (MLS)

New Appointments

- New MLS program assistant - Chace Derwin Clemente will begin his position as the MLS Program Assistant on June 29. Chace has experience with admissions, enrollment and college administration from CDI and Sundance College, and will be working on the 5th floor of Kipnes full time, in person. As of June 29, he can be reached through mlsadm2@ualberta.ca and at 780-492-6601.

Awards

Year 2

- College of Medical Laboratory Technologists of Alberta Award - Vance Tran

Year 4

- HB Collier Memorial Gold Medal - Laura Sutanto
- University of Alberta Hospitals Laboratory Medicine and Pathology Staff Scholarship - Morgan Jansma
- B Motyl Scholarship - Guiliano Santos
- Medical Laboratory Science Research Scholarship - Laura Sutanto



Partner Appreciation Day

• On June 10, 2026, MLS held their first Partner Appreciation day. This event was created to celebrate all those who support the MLS program in their own unique way. Folks from APL, LMP, Recruitment, Communications and more came out to share in the fun. The MLS students were the true stars as they hosted fun and informative games and provided a warm welcome to all in attendance. There were a minimum of 75 people who attended, making the day a success.



We are delighted that going forward our Medical Laboratory Science students will be identifiable around campus with their program-branded backpacks. We hope this will bring more visibility to the excellent MLS program and its students.

LMP Summer Studentship Stipend Recipients 2026

- Sarjana Alam (supervisor Dr. Esmé Dijke)
- Alyanna Chua (supervisor Dr. Carmen Charlton)
- Jack Welikoklad (supervisor Dr. Andrei Drabovich)

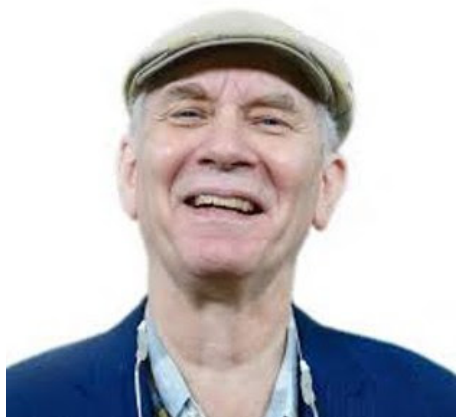
Awards & Accolades



Dr. Xing-Fang Li - Tier 1 CRC in Analytical and Environmental Toxicology (renewed for a five-year term)



Dr. Cheng-Han Lee renewed for a second five-year term as the Sawin-Baldwin Chair in Ovarian Cancer



Dr. Kim Solez is transitioning to Professor Emeritus as of July 1, 2026. He has been with the department for 39 years.

Dr. Connie Prosser has transitioned to Clinical Professor Emeritus

Dr. Ima Anugom

· ID Research Day Abstract Award - Clinical Research, May 28, 2026





Kathryn Tomlinson, Program Assistant for Diagnostic and Molecular Pathology and Diagnostic and Clinical Pathology was chosen as the recipient for the Doris Kurtz Career Achievement. This award In honour of Doris Kurtz, who has strived throughout her career to advance the scope, recognition, and professional development of Program Administrators, and this award is to recognize a residency PA with ten (10) or more years of service. This is awarded to a PA who demonstrates: a sense of pride in the program and their role within the program; is well-respected by faculty, learners, and colleagues, mentorship and support of junior administrative staff; makes the program and departmental medical education office a welcoming environment, knowledge about program operations, evidenced by the ability to consult on a large variety of topics/inquiries and provide/connect appropriate resources and participation in the development or improvement of program and/or departmental medical education office processes and goes “above and beyond” in their role.

PGME Awards 2025

Dr. Theodor K Shnitka Memorial Award

- Alexander Szczotka, Diagnostic and Clinical Pathology Resident
- Golasa Samadi Kochaksaraei, Hematopathology Resident
- Charles Yin, Hematopathology Resident
- Ima Anugom, Medical Microbiology Resident

Dr. T A Kasper Resident Excellence Scholarship

- Emeka Enwere, Diagnostic and Molecular Pathology Resident
- Beau Bouliane, Hematopathology Resident
- Zhan (Cecilia) Shi, Medical Microbiology Resident

DRivE 2026 Presentation Winners

Oral Presentation Awards

Charles Yin - Best Resident (Dr. Theodore Shnitka Memorial Resident Award)

David Guo – Best Grad Student - MSc

Zoe Turner – Best Grad Student - PhD

Jianyu Hu – Best Postdoctoral Research Fellow

Brian MacPhee - Best Summer Student

Laura Sutanto - Best MLS Student

Poster Presentation Awards

Golasa Samadi Kochaksaraei - Best Resident (Dr. Theodore Shnitka Memorial Resident Award)

Ethan Simpson – Best Grad Student - MSc

Chenyang Yang – Best Postdoctoral Research/Clinical Fellow

Jenny Chau – Best Grad Student - PhD

Giverny Colwell – Best Summer Student

Bennett Martin – Best MLS Student

Grad Student Awards

Serena Li and Zoe Turner - Bell McLeod Educational Fund Citizenship Award



Dr. Charles Yin & Dr. Ben Adam



David Guo & Dr. Ben Adam



Zoe Turner & Dr. Ben Adam



Dr. Ben Adam & Jianyu Hu &



Dr. Ben Adam & Brian MacPhee



Dr. Ben Adam & Laura Sutanto



Dr. Golasa Samadi Kochaksaraei &
Dr. Ben Adam



Ethan Simpson & Dr. Ben Adam



Chenyang Yang & Dr. Ben Adam



Jenny Chau & Dr. Ben Adam



Bennett Martin & Dr. Ben Adam



Serena Li & Dr. Ben Adam

LMP Graduation & Promotion Celebration June 4, 2026



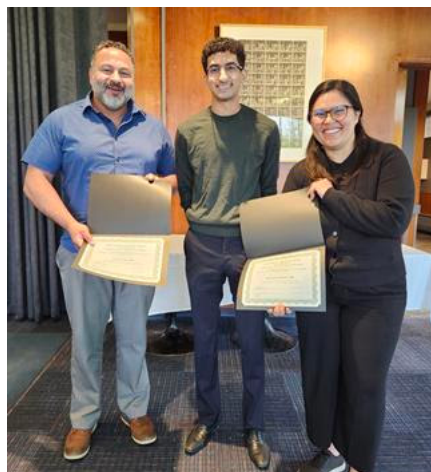
Left to right: (From Hematological Pathology Residency Program) Dr. Dean Tung, Dr. Artur Szkotak, Dr. Candy Niu Hematological Pathology Resident Graduate, Dr. Melanie Bodnar, and Dr. Golasa Samadi Kochaksaraei



Dr. Brinda Balachandra (left) and Gastrointestinal and Liver Pathology Fellow Graduate Dr. Rawan Alghmdid



Left to right: Diagnostic and Molecular Pathology
Graduates: Dr. Emeka Enwere and Dr. Nina Esfandiari
with
Dr. Kristalee Watson



Left to right: Dr. Dean Tung, Dr. Sundeen Basran, &
Dr. Kristalee Watson. Dr. Tung (DCP) & Dr. Watson (DMP)
received Teacher of the Year Award.



Ms. Lillian Feng, Program Director, Pathologists' Assistant
Program (left) and Mr. Weijun Zhu, Graduate of the
Pathologists' Assistant Program (July) (right)

Congratulations to all LMP Graduates and Award Winners!

Graduates with no photo:

Yasmine Rais, PhD - Graduate Student

Celina Phan, MSc (thesis) - Graduate Student

Sarah McMahon MSc Transfusion Science Program - Graduate Student

Emmanuel Thomas - MSc Pathologists' Assistant Program (July) - Graduate Student

Dr. Hanan Khormi - Molecular Genetic Pathology Fellowship Program Graduate

Dr. Fahed Elia - Clinical Biochemistry Fellowship Program Graduate (2025)

Dr. Charles Yin - Hematological Pathology Resident Graduate

Dr. Sa'adiya Umar - Medical Microbiology Resident Graduate (Sept 2025)

Dr. Siva Palanivetrillai - Medical Microbiology Resident Graduate (Jan 2026)

Award Recipients with no photo:

Katerina Carastathis - LMP Graduate Student Impact Award

Dr. Anna Füzéry - 2026 Canadian Society of Clinical Chemists (CSCC) Award for

Education Excellence and 2025 Alberta Society of Clinical Chemists (ASCC) Outstanding Contribution to Clinical Chemistry

Dr. Patrick Hanly, Diagnostic and Clinical Pathology, Grey Nuns Community Hospital
Resident of the Year Award

Dr. Daniel Finlaison, Diagnostic and Molecular Pathology, Misericordia Community
Hospital Certificate of Excellence in Pathology Award

2026 New Residents and Fellows

Diagnostic and Molecular Pathology Residency Program

Dr. Sunpreet Cheema

Dr. Jake Szeto

Diagnostic and Clinical Pathology Residency Program

Dr. Ghada Aborkhees

Dr. Xiaoyu (Jason) Jiang

Hematological Pathology Residency Program

Dr. Jessica Willows

Medical Microbiology Residency Program

Dr. Indri Purwana

Forensic Pathology Residency Program

Dr. Chantel Zern

Clinical Biochemistry Fellowship Program

Dr. Raliat Abioye

Transfusion Medicine Fellowship Program

Dr. Sultan Al-Tulihi

Renal and Transplantation Pathology Fellowship Program

Dr. Narongsak Tangon

Lymphoma Pathology & Cellular Therapy Fellowship Program

Dr. Charles Yin

Scholarly Achievements February 1, 2026 to May 31, 2026

Grants

Dr. David Wishart

- Nanoparticles Characterization: Innovation in Cascade Assays and Reaction to Biological Environments for Future Nanomedicines (ICARE-Nanomed), NSERC CREATE, 2026-2032, \$65,000
- EIRENE Implementation Project, European Commission CORDIS, 2025-2029, \$20,100
- Services for Environment and Health Risk Assessment – SIRENE, European Commission CORDIS, 2025-2029, \$228,465

Recent Presentations

Dr. Ben Adam**Invited presentation:**

1. United States and Canadian Academy of Pathology Annual Meeting, San Antonio TX, March 24, 2026: "Ten Years Ago, I Would've Called This...: Microvascular Inflammation in Kidney Transplant Biopsies"

Dr. Ima Anugom**Abstracts:**

1. Ima Anugom, Mathew Diggle, "Two-year post-pandemic increase in *Mycoplasma pneumoniae* in Alberta (2021–2025)", AMMI Conference (April 28 to May 1 2026), St John, Newfoundland; DRiVE Days April 24 & 25, 2026 University of Alberta
2. Ima Anugom, Sydney Neumeier, William Stokes, "A case of *Tropheryma whippelii* native valve infective endocarditis diagnosed by valve tissue 16S rRNA PCR", AMMI Conference (April 28 to May 1 2026), St John, Newfoundland; DRiVE Days April 24 & 25, 2026
3. Ima Anugom, Brittany Kula, Vanessa Fawcett, Mao-Cheng Lee, Justin Bateman, Tanis Dingle, "Imported *Madurella mycetomatis* eumycetoma in a recent East African immigrant to Alberta, Canada, AMMI Conference (April 28 to May 1 2026), St John, Newfoundland

Dr. Matthew Croxen**Invited Presentations:**

1. Croxen M. "Carbapenemase producing-organisms: scourges among us". One Health Conference – Antimicrobial Resistance & Emerging Zoonoses, Calgary, AB
2. Croxen M. "Genomic infectious disease surveillance in Alberta". CDC Outbreak Team Lunch and Learn. Alberta

Abstracts:

1. Nasreen T, Croxen MA, Tyrrell GJ. "Re-emergence of Multidrug-Resistant *Streptococcus pneumoniae* Serotype 9V in Alberta". DRiVE days, 2026, Edmonton, AB
2. Nasreen T, Croxen MA, Rotich S, Tyrrell GJ. "Clonal Expansion of Multidrug-Resistant *Streptococcus pneumoniae* Serotype 9V in Alberta: Genomic Insights into β -Lactam Resistance and Virulence Persistence in the Post-PCV13 Era". AMMI/CACMID 2026, St. Johns, NFLD
3. Nasreen T, Croxen MA, Rotich S, Tyrrell GJ. "Re-Emergence Of Multidrug-Resistant Pneumococcal Serotype 9V In Alberta: Genomic Evidence of Clonal Expansion in the Post-PCV13 Era". ISPPD-14, Copenhagen, Denmark
4. Berenger B, Chui L, Croxen MA, Diggle M, Dingle TC, Griener T, Lynch T, Parsons BD, Tipples G. "Detection and isolation of Enteroinvasive *Escherichia coli* (EIEC) from an Outbreak in a Canadian Province". AMMI/CACMID 2026, St. Johns, NFLD
5. Lynch T, Ashfaq S, Vandriel S, Pabbaraju A, Wong AA, Gill K, Fonseca K, Croxen M, Zubach V, Hiebert J, Tipples G. "Genomic analysis of the Alberta 2025 measles virus outbreak". AMMI/CACMID 2026, St Johns, NFLD

Dr. Linda Chui**Abstracts:**

1. Linda Chui, Brendon D Parsons, Byron Berenger, Tanis Dingle, Thomas Griener, Graham Tipples, "Detection of Enteroinvasive *Escherichia coli* (EIEC) outbreak in Alberta, Canada", VTEC 2026, Aberdeen, Scotland May 10-13, 2026
2. Linda Chui, Surangi H Thilakarathna, Brendon D Parsons, "Effect of Mitomycin C on Shiga toxin-producing *Escherichia coli* (STEC)", VTEC 2026, Aberdeen, Scotland May 10-13, 2026
3. Linda Chui, Christina Ferrato, Vincent Li, Brendon D Parsons, "Detection of Shiga toxin-producing *Escherichia coli* in Alberta, Canada", VTEC 2026, Aberdeen, Scotland May 10-13, 2026
4. Byron Berenger, Thomas Griener, Linda Chui. "Improving Isolate Recovery and Identification of the Shiga Toxin Type in Shiga Toxin Nucleic Acid Test-Positive Feces", AMMI-CACMID 2026, ST John's Newfoundland & Labrador April 28 -May1, 2026

Dr. Steven Drews

Interview:

1. Gorlin, J., Bloch, E., and SJ Drews. Past Lessons Help Blood Operators Prepare for "Disease X." Interview by AABB News, May 2026. <https://www.aabb.org/news-resources/news/aabb-news/article/may-2026/past-lessons-help-blood-operators-prepare-for-disease-x>.

Presentations:

1. Kumaran, D., Ramirez-Arcos, S., Drews, S.J., Charlton, C., Goldman, M., Pambrun, C., "Advancements on lab-developed *Anaplasma* testing. Briefing note to Canadian Blood Services Scientific Research and Advisory Committee (SRAC)", International advisory committee. May 27, 2026.
2. Drews, S.J., Charlton, C., Conrod, V., Romans, K., Goldman, M., Khamisa, K., O'Brien, S., Pambrun, C., "Hepatitis E virus: Evaluations and plans. Briefing note to Canadian Blood Services Scientific Research and Advisory Committee (SRAC)", International advisory committee. May 27, 2026.
3. Drews, S.J., Charlton, C., Ramirez, S., Kumaran, D., Conrod, V., Khamisa, K., Bigham, M., Goldman, M., Todd, L., Romans, K., O'Brien, S., Pambrun, C. "Update on Babesia screening from Manitoba and Nova Scotia blood donors. Briefing note to Canadian Blood Services Scientific Research and Advisory Committee (SRAC)", International advisory committee. May 27, 2026.
4. "Horizon scanning and vigilance activities for the impact of emerging/re-emerging pathogens in the safety and sufficiency of the blood supply" IPFA/PEI 32nd International Workshop on Surveillance and Screening of Blood-borne pathogens. Bilbao, Spain. May 20-21, 2026.
5. "Future EID surveillance and response- Panel discussion." IPFA/PEI 32nd International Workshop on Surveillance and Screening of Blood-borne pathogens. Bilbao, Spain. May 20-21, 2026
6. "EPP Quarterly meeting" ISBT EPP working group, virtual, March 17, 2026.
7. "Questionnaire on use of B cell depleting therapies in blood donors." AABB TTD Monoclonal antibody working group, Online, March 17, 2026.
8. "A summary of a EBA EID on B cell depleting agents." EBA EID, Online, April 28, 2026.
9. "A summary of a EBA EID on B cell depleting agents." AABB Transfusion Transmitted Diseases Committee, May 6, 2026.
10. "The current Canadian Blood Services position on lead in blood products." Héma-Québec Safety Advisory Committee- "Special Meeting" May 5, 2026.
11. "CBS Babesia Southwestern Ontario Update (PHO)." With Kaye Romans, May 11, 2026.
12. "Evaluating Syphilis Risk in Modern Blood Manufacturing". Canadian Blood Services Transmissible Diseases Laboratory Staff, Calgary, AB March 10, 2026.
13. "Evaluating syphilis risk in modern blood manufacturing". Canadian Blood Services Transmissible Diseases Laboratory Staff Brampton, ON, March 26, 2026.

Dr. Janet Elliott:

1. Sofia Sejutee, MingHan Yu, Janet A. W. Elliott, "User interface for an image processing algorithm to be used in cryobiology", Poster presented as Engineering Dean Research Award, April 10, 2026, University of Alberta.
2. Jack James, Faranak Yadegari, Janet A. W. Elliott, "Exploring strategies for the use of glycerol in the

cryopreservation of cells", Poster presented as Engineering Dean Research Award, April 10, 2026, University of Alberta.

3. Hadi Afsaneh, Leah A. Marquez-Curtis, Janet A. W. Elliott, "Cryopreservation of human adult brain astrocytes in suspension", Oral presentation at the Canadian Societies for Chemistry and Chemical Engineering Conference and Exhibition, May 26, 2026, Toronto, ON, Canada.

4. Faranak Yadegari, Janet A. W. Elliott, Nadr M. Jomha, Mohammadhamed Shahsavari, Korinne M. Tirones, "Computational thermal analysis for a porcine intact femoral condyle vitrified in liquid nitrogen vapor with the goal of eliminating cracking", Oral presentation at the Canadian Societies for Chemistry and Chemical Engineering Conference and Exhibition, May 28, 2026, Toronto, ON, Canada.

Mr. Donald Grynoch:

1. "HLA and Type 1 Diabetes: Implications for Islet Transplantation", Presented at the 11th Annual HLA Workshop on April 24, 2026, in Edmonton

Dr. Thane Kubik

Invited Presentation:

1. Kubik T. "Benefits of accreditation in a public healthcare system". Foundation for the accreditation of cellular therapies (FACT) workshop in conjunction with the CTTC Annual Meeting. Gatineau, Quebec. April 30, 2026

Oral Abstract:

1. Millar K, Berrigan S, Kubik T, Lewis V, Prokopishyn N. "Feasibility of pre-transplant CMV-specific T-cell manufacturing in haploidentical allogeneic HSCT". Cellular Therapy and Transplant Canada Annual Meeting. Gatineau, Quebec. May 2, 2026

Won Best Oral Abstract Award

Poster:

1. Millar K, Reinholz C, Tram A, Chandler C, Favell N, Berrigan S, Kubik T, Prokopishyn N. "Utilization of an Enhanced TCR $\alpha\beta$ /CD20 Depletion Process for Generating Valuable Transplant Products". Cellular Therapy and Transplant Canada Annual Meeting. Gatineau, Quebec. May 1, 2026.

Dr. Chris Le:

1. X. Chris Le, Jianyu Hu, Xing-Fang Li, Yanming Liu, Xiaotian Ma, Gregory Tyrrell, Gursevak Uppal, Huidong Wang, Huyan Xiao, Chenyang Yang, Tai Ye, Hongquan Zhang, "*Trans*-cleavage activity of CRISPR systems enabling amplified detection of specific nucleic acid targets". The Canadian Societies for Chemistry and Chemical Engineering 2026 Conference and Exhibition (x2026), Toronto, ON, Canada. Abstract 1023. Invited presentation.

2. Mason D'Souza, Xiufen Lu, X. Chris Le, "Arsenic in Rural Alberta's Groundwater". The Canadian Societies for Chemistry and Chemical Engineering 2026 Conference and Exhibition (x2026), Toronto, ON, Canada. Abstract 1067. Poster presentation.

3. Xiaotian Ma, Yanming Liu, Teresa Kumblathan, Camille Hamula, X. Chris Le, and Xing-Fang Li, "How to enhance wastewater surveillance for Monkeypox". The Canadian Societies for Chemistry and Chemical Engineering 2026 Conference and Exhibition (x2026), Toronto, ON, Canada. Abstract 602. Poster presentation.

4. Chenyang Yang, Hongquan Zhang, X. Chris Le, "A turn-on electrochemical sensor based on strand displacement and CRISPR". The Canadian Societies for Chemistry and Chemical Engineering 2026 Conference and Exhibition (x2026), Toronto, ON, Canada. Abstract 1108. Oral presentation.

5. Gursevak Uppal, Camille Huang, Hongquan Zhang, X. Chris Le, "Enhancing the Specificity of CRISPR-Cas12a System for the Detection and Discrimination of Single Nucleotide Polymorphisms in Antibiotic Resistance Genes". The Canadian Societies for Chemistry and Chemical Engineering 2026 Conference and Exhibition (x2026), Toronto, ON, Canada. May 24-28, 2026. Abstract 1103. Poster presentation.

6. Huyan Xiao, Jianyu Hu, Yuqian Guo, X. Chris Le, Hongquan Zhang, "Engineering Protospacer

Adjacent Motifs to Tune Cas12a Activation and Improve Diagnostic Specificity". The Canadian Societies for Chemistry and Chemical Engineering 2026 Conference and Exhibition (x2026), Toronto, ON, Canada. Abstract 848. Oral presentation.

7. Juanjuan Fu, Tetiana Davydiuk, Jagdeesh S. Uppal, Xiufen Lu, X. Chris Le, "Identification of New Arsenic Species in Human Urine from the Health Effects of Arsenic Longitudinal Study Using Chromatography and Mass Spectrometry". The Canadian Societies for Chemistry and Chemical Engineering 2026 Conference and Exhibition (x2026), Toronto, ON, Canada. Abstract 1069. Oral presentation.

Dr. Natalie Marshall

Abstracts:

1. "Automating RPR testing to meet Alberta's rising demand for syphilis testing", Brian MacPhee,^{1,2} Krupa Zora,² Navkiran Randhawa,² Emily McCullough,² Sali Sidig,² Hong Yuan Zhou,^{3,4} Natalie C. Marshall^{2,5}

1. School of Public Health, University of Alberta, Edmonton, AB
2. Public Health Laboratory (ProvLab), Alberta Precision Labs, Edmonton, AB
3. Public Health Laboratory (ProvLab), Alberta Precision Labs, Calgary, AB
4. Department of Pathology & Laboratory Medicine, University of Calgary, Calgary, AB
5. Division of Diagnostic & Applied Microbiology, Department of Laboratory Medicine & Pathology, University of Alberta, Edmonton, AB

University of Alberta, Department of Laboratory Medicine & Pathology DRivE Days in Laboratory Services & Pathology, Edmonton, AB, April 24 and 25, 2026

2. "Meeting demand for rising syphilis testing: Laboratory outcomes with automated RPR testing", Brian MacPhee^[1],^[2]; Krupa Zora^[2]; Navkiran Randhawa^[2]; Emily McCullough^[2]; Sali Sidig^[2]; Hong Yuan Zhou^[3],^[4]; Natalie C Marshall^[5]

1. School of Public Health, University of Alberta
2. Public Health Laboratory (ProvLab), Alberta Precision Labs, Edmonton, AB
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4. Department of Pathology & Laboratory Medicine, University of Calgary, Calgary, AB
5. Division of Diagnostic & Applied Microbiology, Department of Laboratory Medicine & Pathology, University of Alberta

AMMI Canada - CACMID Annual Conference, St. John's, NL, April 28 - May 1, 2026

3. "Scaling syphilis testing for outbreak response: System-level impacts of automated RPR in Alberta", Brian MacPhee,^{1,2} Krupa Zora,² Navkiran Randhawa,² Emily McCullough,² Sali Sidig,² Hong Yuan Zhou,^{3,4} Natalie C. Marshall^{2,5}

1. School of Public Health, University of Alberta, Edmonton, AB
2. Public Health Laboratory (ProvLab), Alberta Precision Labs, Edmonton, AB
3. Public Health Laboratory (ProvLab), Alberta Precision Labs, Calgary, AB
4. Department of Pathology & Laboratory Medicine, University of Calgary, Calgary, AB
5. Division of Diagnostic & Applied Microbiology, Department of Laboratory Medicine & Pathology, University of Alberta, Edmonton, AB

University of Alberta Global Health Fair, Edmonton, AB, February 5, 2026

Dr. Susan Nahirniak:

1. 4th Annual Hematology Update invited speaker, April 11, 2026, Edmonton, "Transfusion Medicine: Choosing Wisely, Limits, Transfusion No No's, How to Donate Blood"

Dr. Judy Qiu

Abstracts:

1. Zhao F, Immaraj L, Bhavanam S, Jiang Q, Qiu JY, Parkins M, Hubert C, Lee B, Pang XL.

"Metagenomic Characterization of Influenza A Genotypes in Alberta Wastewater, 2023–2025". DRiVE Days, University of Alberta, Edmonton, Canada, April 2026

Ms. Yvonne Rees:

1. "Variation in Bivalirudin Requirements for Children with Ventricular Assist Devices", J Livingston^{1,3,4,5}, Y Rees², A Szkotak², K Lee³, H Buchholz³, J Conway^{3,4,5}, 1) KidClot Team, Stollery Children's Hospital, Edmonton, Canada; 2) Alberta Health Services, Edmonton, Canada; 3) VAD Team, Stollery Children's Hospital, Edmonton, Canada; 4) Department of Paediatrics, University of Alberta, Edmonton, Canada; 5) Women's & Children's Research Institute, Edmonton, Canada, ISHLT 2026, April 22-25, 2026, Toronto, Ontario, Canada

Dr. Iveta Sosova:

1. Iveta Sosova. "Newborn screening: more than 60 years of saving babies' lives". Rare Disease Day 2026. March 14, 2026, Olsztyn, Poland

Dr. Greg Tyrrell:

1. Le, X. C., J. Hu, X-F. Li, Y. Liu*, G.J. Tyrrell, G. Uppal, H. Wang, H. Xiao, C. Yang, T. Ye and H. Zhang. 2026. "Trans-cleavage activity of CRISPR systems enabling amplified detection of specific nucleic acid targets". Canadian Societies for Chemistry and Chemical Engineering 2026 Conference and Exhibition. Toronto, Ontario. May 24-28, 2026.
2. Nasreen*, T, M. A. Croxen, S. Rotich, and G. J. Tyrrell. 2026. "Re-emergence of Multidrug-Resistant *Streptococcus pneumoniae* Serotype 9V in Alberta". ISPPD-13 (International society for pneumonia and pneumococcal diseases). May 17-21, 2026. Copenhagen, Denmark.
3. Nasreen*, T, M. A. Croxen, S. Rotich, and G. J. Tyrrell. 2026. "Clonal Expansion of Multidrug-Resistant *Streptococcus pneumoniae* Serotype 9V in Alberta: Genomic Insights into β -Lactam Resistance and Virulence Persistence in the Post-PCV13 Era". AMMI-Canada-CACMID Annual Conference 2025. St. John's, Newfoundland. April 28-May 1, 2026.
4. Dingle, T.C., K. Pabbaranju, A. Wong, C. Ferrato, K. Gill and G.J. Tyrrell. 2026. "Two-year experience of direct specimen bacterial identification by 16S Sanger sequencing at a public health laboratory". AMMI-Canada-CACMID Annual Conference 2025. St. John's, Newfoundland. April 28-May 1, 2026.
5. Nasreen*, T, M. A. Croxen and G. J. Tyrrell. 2026. "Re-emergence of Multidrug-Resistant *Streptococcus pneumoniae* Serotype 9V in Alberta". DRiVE Days (Discover, Research, Innovation and Education). Dept of Laboratory Medicine and Pathology, University of Alberta, Edmonton, Alberta. April 24-25, 2026.
6. Lau, A., R. Long, A. Doroshenko, M. Egedahl, M. Croxen, L. Asadi, C. Heffernan, J. Barrie and G.J. Tyrrell. 2026. "Transmission of tuberculosis from asymptomatic versus symptomatic pulmonary tuberculosis patients: a population-based retrospective cohort study in Canada". Canadian Respiratory Conference (CRC 2026). Calgary, Alberta, April 16-18, 2026.

Dr. David Wishart:

1. David S. Wishart, "Exploring the Exposome with Metabolomics", Metabolomic Day 2026, Edmonton, AB. February 17, 2026
2. David S. Wishart, "Gene Finding with ANNs", Canadian Bioinformatics Workshop, Edmonton, AB. April 22-23, 2026
3. David S. Wishart, "Precision Health or Precision Medicine? Finding the Right Place for Metabolomics", CanMetCon 2026 Toronto, April 30, 2026
4. David S. Wishart, "AI, Machine Learning and the DrugBank-in-3D", Canadian Chemistry Conference and Exhibition, Toronto, May 28, 2026
5. Alexandra Smith, Amirah-Iman Hicks, Kimberly Begley, Karen Cranston, Wyeth Wasserman, David Wishart, Guillaume Bourque, Ma'N H. Zawati, Michelle D. Brazas, The Pan-Canadian Genome Library,

Title of presentation (Poster): "The Pan-Canadian Genome Library: Creating resources to promote genomic research in Canada, CBHC 2026, Toronto, May 29, 2026

6. Robyn Woudstra, Mark Berjanskii and David S. Wishart, Title of presentation (Poster): "Strengthening bioinformatics capacity in Alberta", CBHC 2026, Toronto, May 29, 2026

Ms. Fan Zhao:

1. Fan Zhao¹, Linnet Immaraj¹, Sudha Bhavanam², Qiang Jiang¹, Judy Qiu^{1,3}, Michael D Parkins⁴, Casey RJ Hubert⁵, Bonita E Lee⁶, and Xiao-Li Pang¹

1 Department of Laboratory Medicine, Faculty of Medicine & Dentistry, University of Alberta, Edmonton, Alberta, Canada

2 Department of Surgery, Faculty of Medicine & Dentistry, University of Alberta, Edmonton, Alberta, Canada

3 Public Health Laboratory, Alberta Precision Laboratories, Edmonton, Alberta, Canada

4 Departments of Medicine and Department of Microbiology, Immunology and Infectious Diseases, University of Calgary, Calgary, Canada

5 Department of Biological Sciences, University of Calgary, Calgary, Canada

6 Department of Pediatrics, Faculty of Medicine & Dentistry, University of Alberta, Edmonton, Alberta, Canada

"Metagenomic Characterization of Influenza A Genotypes in Alberta Wastewater, 2023–2025", DRiVe Days in Laboratory Services & Pathology, Lister Center, University of Alberta. April 24 and 25, 2026

Recent Publications

Dr. Ben Adam

Peer-reviewed papers:

1. Calabrese F, Levine DJ, Adam BA, Agbor-Enoh S, Benden C, Budev MM, Cochrane AB, Cozzi E, Darley DR, Fishbein GA, Gelman AE, Glanville AR, Greenland JR, Hickey MJ, Ius F, Jaksch P, Jackson AM, Joerns JO, Lor H, Lowery EM, Mangiola M, Morlacchi LC, Murray MA, Nair A, Ocagli H, Parmar JS, Pavlisko EN, Perch M, Rahaghi FF, Roden AC, Roux A, Snyder L, Sweet S, Verleden SE, Visner GA, Vos R, Wikenheiser-Brokamp KA, Zeevi A, Hachem RR. "International Society for Heart and Lung Transplantation Scientific Statement on pulmonary antibody-mediated rejection and proposed graft, antibody, and pathology (GAP) definition". *J Heart Lung Transplant*. 2026 May 21:S1053-2498(26)01865-6. doi: 10.1016/j.healun.2026.04.019. Online ahead of print. PMID: 42274447. [IF 7.865]
2. Jovel J, Polzer B, Patterson J, Yong H, Vasquez C, O'Keefe S, Pink D, Li G, Fairey A, Adam BA, Teitelbaum J, Salimi A, Kirsh S, Alberter B, Lowes L, Carpenter E, Kolinsky M, Zhu Z, Zhou Q, Venner P, Venner C, Williams D, Allan A, Boutros PC, Klein CA, Wong G, Lewis JD. "Single-cell genomic analysis of cancer cells from one treatment-naïve patient with metastatic prostate cancer". *BMC Genom Data*. 2026 May 8. doi: 10.1186/s12863-026-01435-5. Online ahead of print. PMID: 42098607. [IF 2.500]
3. Fedrigo M, Adam BA, Angelini A, Berry GJ, Coutance G, Duong-Van-Huyen JP, Osto E, Reed EF, Tona F, Miller DV. XVIIth Banff Conference on Allograft Pathology: "The Banff Workshop Heart Report on Microvascular Inflammatory Burden in Heart Transplantation and the Impact of Non-Invasive Diagnostic Tools". *Am J Transplant*. 2026 May 2:S1600-6135(26)00232-7. doi: 10.1016/j.ajt.2026.04.024. Online ahead of print. [IF 8.200]
4. Wang J, Kedariseti P, McAlister E, Mallay M, Woodacre J, Adam BA, Maglantay R, Jovel J, Wuest F, Brown N, Zemp R. "Shock-Scattering Micro-Histotripsy-Aided Fine Needle Aspiration for Enhanced Biomarker Profiling and Cytopathology". *Nat Commun*. 2026 May 2. doi: 10.1038/s41467-026-72488-4. Online ahead of print. [IF 15.700]
5. Piedrafito A, Sablik M, Preka E, Goutaudier V, Demir Z, Mezine F, Divard G, Dagobert J, Robin B, Truchot A, Thalamas T, Sannier A, Rabant M, Aubert O, Maanaoui M, Le Quintrec M, Couzi L, Chauveau

- B, Bestard O, Elias M, Louis K, Rosales IA, Smith RN, Anglicheau D, Del Bello A, Budde K, Halleck F, Huang E, Adam B, Villard J, Kamar N, Lefaucheur C, Colvin RB, Mengel M, Loupy A. "Normalization of nCounter gene expression data alters molecular diagnostics in kidney transplantation." J Am Soc Nephrol. 2026 Apr 23. doi: 10.1681/ASN.0000001107. Online ahead of print. PMID: 42024462. [IF 9.400]
6. Omic H, Kozakowski N, Kläger J, Hirsch HH, Adam BA, Mengel M, Weseslindtner L, Kikić Ž, Eder M. "Interferon-Inducible Gene Upregulation correlates with successful viral clearance in patients with BK Polyomavirus-Associated Nephropathy". Kidney Int Rep. 2026 Apr 22;11(7):106551. PMID: 42199954. [IF 5.700]
7. Baragar B, Adam BA, Mengel M, Balshaw R, Gibson IW, Ho J, Shaw J, Karpinski M, Trachtenberg A, Pochinco D, Goldberg A, Birk P, Pinsk M, Rush D, Nickerson PW, Wiebe C. "The Evolution of Molecular Phenotypes Through Time in Kidney Transplant Recipients". Transplant Direct. 2026 Mar 23;12(4):e1919. PMID: 41884703. [IF 1.900]
8. Albrecht K, Averbuch T, Huculak C, Marcadier J, Oudit G, van Landeghem FKH, Adam BA, Lyons KJ, Kiamanesh O. "Dystrophin-Deficient Cardiomyopathy Due to a Novel Hemizygous DMD Indel Variant". JACC Case Rep. 2026 Mar 11;31(10):107183. PMID: 41817254. [IF pending]
9. George SS, Adam BA, Senaratne JM. "Delayed Diagnosis of Recurrent Embolic Strokes from Cardiac Myxoma Coexisting with Antiphospholipid Syndrome Presenting as Progressive Cognitive Decline". BMJ Case Reports. 2026 Feb 25;19(2):e269302. PMID: 41741122. [IF 0.600]
10. Wagner MJ, da Silva GMA, Hatami S, Khan M, Lin L, Wang X, Pidborochynski T, Adam BA, Nagendran J, Conway J, Freed DH. "Preservation of pediatric donor hearts via subnormothermic machine perfusion: Comparison to cold storage". JHLT Open. 2026 Feb 10;12:100511. PMID: 41798059. [IF pending]

Abstract:

1. Saini A, Adam BA. "Molecular vs. Clinicopathologic Risk Prediction in ANCA-Associated Crescentic Glomerulonephritis [abstract]". Lab Invest. Mar 2026; 106(3): 105742.

Dr. Ima Anugom

Online Publication:

1. September 2025 Case of the Month - Doctor Fungus, Title: "Beneath the Surface – Imported Eumycetoma in a Recent East African Immigrant to Alberta, Canada", Ima Anugom MD¹, Brittany Kula MD², Vanessa Fawcett MD³, Mao-Cheng Lee MD^{1,4}, Justin Bateman MD¹, Tanis C. Dingle, Ph.D^{1, 5}
1. Department of Laboratory Medicine and Pathology, University of Alberta, Edmonton, AB, Canada
 2. Department of Medicine, University of Alberta, Edmonton, AB, Canada
 3. Department of Surgery, University of Alberta, Edmonton, AB, Canada
 4. Alberta Precision Laboratories, Edmonton, AB, Canada
 5. Alberta Precision Laboratories, Calgary, AB, Canada

Dr. Linda Chui:

1. Mohamed Eltorki, Oluwatimilehin O Ajayi, Jina Seok, Jianling Xie, Francesco A Rizzuti, Byron M Berenger, Phillip I Tarr, Andrew T Pavia, Kate Snedeker, Silviu Grisaru, Otto G Vanderkooi, Linda Chui, Gillian A M Tarr, Gemma Vomiero, Stephen B Freedman, "Shiga Toxin-Producing Escherichia coli Outbreak in Canadian Daycare Centers", JAMA Netw Open 2026 Mar 2;9(3):e261278. doi: 10.1001/jamanetworkopen.2026.1278.

Dr. Matthew Croxen

Peer-reviewed paper:

1. Edirmanasinghe R, Dingle TC, Croxen MA, Boyd DA, Mataseje L. "Carbapenemase-producing hypervirulent *Klebsiella pneumoniae* in Alberta, Canada, 2016-2024". J Assoc Med Microbiol Infect Dis Can. 2026 Feb 11;11(1):51-69. doi:10.3138/jammi-2025-0028. PMID: 42131372; PMCID: PMC13167180
2. Díaz JM, Wells JEJ, Marple AC, Shannon BA, Rishi A, Martin I, McGeer A, Croxen MA, Tyrrell GJ, Walker MJ, Brouwer S, McCormick JK. "Acquisition of toxin-encoding lysogenic bacteriophage elements

enhances the virulence of pandemic *Streptococcus pyogenes* M1UK". Infect Immun. 2026 Mar 10;94(3):e0050325. doi: 10.1128/iai.00503-25. Epub 2026 Feb 9. PMID: 41661104; PMCID: PMC12974143

Dr. Steven Drews:

1. O'Brien SF, Lewin A, Lee ER, Drews SJ. "Blood donor hepatitis B data: An under-recognized surveillance resource in Canada". Canadian Liver Journal. 2026 Feb 1;9(1):64-77.
2. Wang C, Drews SJ, Bigham M, Goldman M, O'Brien SF. "Re-entry of donors deferred for false-reactive screening tests in Canada: 10 years post implementation". Vox Sang. 2026 Mar 9. doi: 10.1111/vox.70233. Epub ahead of print. PMID: 41802878.
3. Drews SJ, Charlton CL, Ramirez-Arcos S, Jenkins C, Conrod V, Todd L, Bloch EM, Van Caesele P, Stein D, Osmond L, Goldman M, O'Brien SF, Pambrun C. "Using blood donor surveillance and clinical case data to shape our understanding of *Babesia* epidemiology in Manitoba, Canada". Transfusion. 2026 Mar 23. doi: 10.1111/trf.70179. Epub ahead of print. PMID: 41872710.
4. Jacobs JW, Choudhury N, Arora S, Jindal A, Bhatnagar N, Basavarajegowda A, Shastry S, Chandra T, Daniel D, Drews SJ, Bloch EM. "Transfusion-transmitted malaria in India: A national survey of epidemiology and testing practices". Vox Sang. 2026 Mar 30. doi: 10.1111/vox.70261. Epub ahead of print. PMID: 41906713.
5. Kumaran D, Charlton C, Pambrun C, Drews SJ, Ramirez-Arcos S. "An in-house nucleic acid test for detection of *Anaplasma phagocytophilum* in whole blood donor samples". Transfusion. 2026 Apr 13. doi: 10.1111/trf.70194. Epub ahead of print. PMID: 41968968.
6. Wang C, Drews SJ, Goldman M, O'Brien SF. "Residual risk of human immunodeficiency virus, hepatitis C, and hepatitis B following implementation of sexual risk behavior-based screening in Canada". Transfusion. 2026 Apr 23. doi: 10.1111/trf.70244. Epub ahead of print. PMID: 42023675.
7. O'Brien SF, Goldman M, Lewin A, Uzicanin S, Fan W, Drews SJ. "Chagas disease in Canadian blood donors: 15 years of selective testing". Vox Sang. 2026 Jun 1. doi: 10.1111/vox.70299. Epub ahead of print. PMID: 42225986.

Dr. Janet Elliott

Peer-reviewed journal papers:

1. Elham Ashrafi, Janet A. W. Elliott, "Compartment-specific nitric oxide signaling in mouse cardiac endothelial cells: Intra- and extracellular measurements and the impact of cryopreservation", Nitric Oxide, 2026: 163, 15–27. <https://doi.org/10.1016/j.niox.2026.02.004>.
2. Faranak Yadegari, Janet A. W. Elliott, "Characterizing the osmotic response of human umbilical vein endothelial cells (HUVECs) to hypertonic PBS or sucrose exposure and demonstrating expected volume recovery upon re-exposure to isotonic conditions", Cryobiology, 2026: 123, 105622. <https://doi.org/10.1016/j.cryobiol.2026.105622>
3. Hadi Afsaneh, Leah A. Marquez-Curtis, Janet A. W. Elliott, "Cryopreservation of primary human brain vascular pericytes in suspension", Cryobiology, 2026: 123, 105620, <https://doi.org/10.1016/j.cryobiol.2026.105620>.
4. Jessica Chin, Leah A. Marquez-Curtis, Mehdi Ghaffari Sharaf, Janet A. W. Elliott, Larry D. Unsworth, "Stability of corneal endothelial monolayers in the presence of magnetic particles in a rotating magnetic field". PLoS One, 2026: 21(4): e0348603. <https://doi.org/10.1371/journal.pone.0348603>

Dr. Victoria Higgins

Peer-reviewed publications:

1. Higgins V, Steinbach M, Elian F, Ismail OZ, Tsui AKY, Brun M, Estey MP, Newbigging A, Parker ML, Proctor D, Volodko N, Olayinka L. "Unmasking Hidden Monoclonal Proteins: Leveraging the Lipemia Index". J Appl Lab Med. 2026 May 23:jfag066
2. Higgins V, Parker ML, Ahmed B, Bhayana V, Booth RA, Chen Y, Collier C, Freedman MS, Gagné M, Ismail OZ, Gifford JL, Macri J, Moore CS, Newbigging A, Olayinka L, Poliakov I, Rodriguez-Capote K,

Schneider R, Thebault S, Yang L, Beriault DR. "Best practice recommendations for laboratory analysis and reporting of cerebrospinal fluid oligoclonal banding and associated tests for multiple sclerosis (MS): a consensus report from the harmonized CSF analysis for MS investigation (hCAMI) subcommittee of the Canadian society of clinical chemists (CSCC)". *Clin Biochem*. 2026 Mar;142:111098

Dr. Linnet Immaraj:

1. Immaraj, L.; Qiu, J.Y.; Brand, L.A.; Gao, T.; Lee, B.; Parkins, M.; Hubert, C.; O'Grady, C.; Pang, X. "Development and Validation of a Quantitative RT-qPCR Panel for the Detection and Monitoring of Polioviruses in Wastewater Samples". *Microorganisms* 2026, 14(3), 709. <https://doi.org/10.3390/microorganisms14030709>

Dr. Thane Kubik:

1. Kubik T, Mamo T, McKenna DH. "Manufacturing and clinical applications of non-CAR-T immune effector cells". *Transfusion*. 2026. <https://doi.org/10.1111/trf.70144>

Dr. Chris Le:

1. Davydiuk, T.; Uppal, J.; Fu, J.; Lu, X.; Tong, L.; Ahsan, H.; Pierce, B.; Le, X.C. "Speciation of arsenic in urine from the Health Effects of Arsenic Longitudinal Study (HEALS) revealing new arsenic species and individual variability". *Environment & Health*, 2026. <https://doi.org/10.1021/envhealth.5c00880>
2. Feng, W.; Hu, J.; Zhang, H.; Le, X.C. "A kinetic approach for mapping seed regions of CRISPR ribonucleoprotein and improving specificity". *Nucleic Acids Research*, 2026, 54 (8), gkag413. <https://doi.org/10.1093/nar/gkag413>
3. Ma, X.; Liu, Y.; Kumblathan, T.; Hamula, C.; Le, X.C.; Li, X.-F. "Perspectives on wastewater surveillance of mpox: Current methods and future needs". *Trends in Analytical Chemistry*, 2026, 197, 118686. <https://doi.org/10.1016/j.trac.2026.118686>
4. Cooke, C.A.; Graydon, J.A.; Luek, A.; Lu, X.; Yu, H.; Le, X.C.; Reichert, M. Fish remain high in selenium long after mountaintop coal mines close. *Environmental Science & Technology*, 2026, 60 (16), 11938–11944. <https://doi.org/10.1021/acs.est.5c10900>
5. Liao, L.; Bin, Y.; He, Z.; Zhang, L.; Luo, Y.; Zhao, S.; Le, X.C. "In vivo evaluation of liver injury and arthritis enabled by a nitroxyl-activated near-infrared fluorescence and photoacoustic dual-modality imaging probe". *JACS Au* 2026, 6, 299–309. <https://doi.org/10.1021/jacsau.5c01230> Featured on the Front cover. <https://pubs.acs.org/toc/jaaucr/6/1>

Dr. Michael Mengel

Peer-reviewed publications:

1. Baragar B, Adam BA, Mengel M, Balshaw R, Gibson IW, Ho J, Shaw J, Karpinski M, Trachtenberg A, Pochinco D, Goldberg A, Birk P, Pinski M, Rush D, Nickerson PW, Wiebe C. "The Evolution of Molecular Phenotypes Through Time in Kidney Transplant Recipients". *Transplant Direct*. 2026 Mar 23;12(4):e1919
2. Omic H, Kozakowski N, Kläger J, Hirsch HH, Adam BA, Mengel M, Weseslindtner L, Kikić Ž, Eder M. "Interferon-Inducible Gene Upregulation Correlates With Successful Viral Clearance in Patients With BK Polyomavirus-Associated Nephropathy". *Kidney Int Rep*. 2026 Apr 22;11(7):106551.
3. Naesens M, Roufosse C, Cornell LD, Haas M, Mannon RB, Afrouzian M, Akalin E, Alachkar N, Alexander MP, Bagnasco SM, Batal I, Böhmig GA, Boor P, Broecker V, Chang A, Clahsen-Van Groningen M, Coley SM, Colvin RB, Dadhania D, Drachenberg CB, Elias M, Farris AB, Fogo AB, Fowler K, Gibson IW, Goutaudier V, Huang E, Husain SA, Jackson AM, Kers J, Kikić Ž, Kozakowski N, Kung V, Liapis H, Louis K, Muthukumar T, Nankivell B, Neil DAH, Rabant M, Randhawa P, Riella LV, Rosales I, Royal V, Sapir-Pichhadze R, Schachtner T, Schinstock C, Seshan SV, Sharif A, Solez K, Thaunat O, Van Midden D, Ventura-Aguir P, Willicombe M, Lefaucheur C, Loupy A, Mengel M. "The Banff 2024 Kidney Meeting Report: Rejection as a spectrum of phenotypes and focus on differential diagnostic reasoning". *Am J Transplant*. 2026 May;26(5):922-936.
4. Rosales IA, Farris AB, Goutaudier V, Sannier A, Fatima H, Trivin-Avillach C, Bagnasco S, Calabrese F,

Claassen van Groningen MC, Coley SM, Cozzi E, Hodo CL, Kolev M, Kozakowski N, Kwun J, Meier R, Nowak G, Oniscu GC, Riella LV, Rosenberg A, Sekulic M, Sykes M, Tatapudi V, Wu M, Mannon RB, Loupy A, Colvin RB, Mengel M, Drachenberg C, Bruneval P, Batal I; "Pathologic Evaluation of Pig Kidney and Heart Xenografts: 2024 Recommendations from the Banff Xenotransplantation Pathology Working Group". Banff Working Group for Xenotransplantation Pathology. Am J Transplant. 2026 Apr, online ahead of print

5. Piedrafita A, Sablik M, Preka E, Goutaudier V, Demir Z, Mezine F, Divard G, Dagobert J, Robin B, Truchot A, Thalamas T, Sannier A, Rabant M, Aubert O, Maanaoui M, Le Quintrec M, Couzi L, Chauveau B, Bestard O, Elias M, Louis K, Rosales IA, Smith RN, Anglicheau D, Del Bello A, Budde K, Halleck F, Huang E, Adam B, Villard J, Kamar N, Lefaucheur C, Colvin RB, Mengel M, Loupy A. "Normalization of nCounter Gene Expression Data Alters Molecular Diagnostics in Kidney Transplantation". J Am Soc Nephrol. 2026 Apr, online ahead of print

6. Djamali A, Böhmig GA, Mannon RB, Chadban S, Kumar D, van Gelder T, Schultz-Hauser G, Alperovich G, Preiss R, Lee LA, Rogosch T, Morin I, Luo C, Budde K, Mengel M, Nickerson PW. "Clazakizumab in the treatment of chronic active antibody-mediated kidney transplant rejection: Results from the IMAGINE phase 3, randomized, double-blind, placebo-controlled study". Am J Transplant. 2026 Apr, online ahead of print

Dr. Susan Nahirniak:

1. Book Chapter: Hospital Oversight of Transfusion Safety and the Appropriate Use of Blood, Book: Practical Transfusion Medicine 7th Edition, Publisher: John Wiley & Sons, May 2026

Dr. Judy Qiu

Peer-reviewed papers:

1. Wen J, Peng KK, Lee BE, Rosychuk RJ, Gao TJ, Qiu JY, Li MY, Risling E, Little LA, Sikora C, Pang XL, Ohinmaa A. "Site-specific wastewater-based surveillance in early detection of COVID-19 new cases and prediction of mass testing outcomes in long-term care facilities". Scientific Reports. April 13, 2026.
2. Immaraj L, Qiu JY, Brand LA, Gao T, Lee BE, Parkins M, Hubert CRJ, O'Grady C, Pang XL. "Development and Validation of a Quantitative RT-qPCR Panel for the Detection and Monitoring of Polioviruses in Wastewater Samples". Microorganisms. Mar 21, 2026. 14(3), 709

Dr. Iveta Sosova:

1. CLSI. "Newborn Screening for Galactosemia". 1st ed. CLSI guideline NBS12. Clinical and Laboratory Institute; 2026. Judith Fridovich-Keil, PhD, Dianne R. Webster, PhD, FFSi, RCPA, FHGSA, Gerard Berry, MD, Annet Bosch, MD, PhD, Saswati Das, MD, MBBS, Uttam Garg, PhD, DABCC, Chris Gobin, BA, Laura Hancock, MS, Shawn Moloney, MPH, MLS(ASCP)cm, Stevie Norcross, PhD, Harikrishna Patel, BS, MS, Michael Petros, DrPH, Hanna Polari, MSc, Valerie Ragland, MALS, BS, MT(ASCP), Tumelo Satekge, FC Path(SA), Chem MMED (UP), Iveta Sosova, PhD, DABMGG, FACMG, Sarah Viall, MSN

Dr. Greg Tyrrell

Peer-reviewed papers:

1. Ramos*, B., N. Vadlamudi, A. Golden, I. Martin, G.J. Tyrrell, N. Brousseau, A. Griffith and M. Sadarangani. 2026. "The epidemiology of invasive pneumococcal disease and impact of pneumococcal conjugate vaccines in Canada 2000-2019". JAMA Network Open. April 1, 2026. 9(4):e266005. PMID: 41954934.
2. Golden, A.R., A. Griffith, B. Lefebvre, A. McGeer, G.J. Tyrrell, J.V. Kus, J. Grant, J. Minion, P. Van Caesele, G. Desnoyers, D. Haldane, Y. Yu, X. Ding, L. Steve, J. McFadzen, G. Zhanel, C. Primeau and I. Martin. 2026. "Invasive pneumococcal disease surveillance in Canada, 2023". Canada Communicable Disease Reports (CCDR) February 2026. 52:1/2, 36-46. doi.org/10.14745/ccdr.v52i0102a05. PMID: 41924395.
3. Isah*, I., S. Suresh, G.J. Tyrrell, M. Kumar and J.L. Robinson. 2026. "Shifting from an expected to an

opportunistic pathogen: characteristics and trends of infant late and very late onset group B streptococcal (GBS) infection in a Canadian city over a 27-year period". PLoS One. Published: March 4, 2026, <https://doi.org/10.1371/journal.pone.0336839>. PMID: 41779744.

4. Diaz, J.M., J. Wells, A. Marple, B.A. Shannon, A. Rishi, I. Martin, A. McGeer, M. Croxen, G.J. Tyrrell, M.J. Walker, S.J. Bouwer and J.K. McCormick. 2026. "Acquisition of toxin-encoding lysogenic bacteriophage elements enhances virulence of pandemic *Streptococcus pyogenes* M1_{UK}" Infection and Immunity. March 2026. doi:10.1128/iai.00503-25. PMID: 41661104.

Dr. Ingo von Both:

1. Case report. Forensic Sci Med Pathol. 2026, Mar;22(1):300-315, "4F-MDMB-BICA toxicity: a fatal case and literature review of synthetic cannabinoid fatalities", Ingo von Both, Glen K Shoemaker, Craig N Chatterton, doi: 10.1007/s12024-025-01167-5. Epub 2026 Jan 20
2. Review. J Forensic Leg Med. 2026 Apr 20;120:103130, "Diagnostic pitfalls in zip tie ligature strangulation: Findings from a 16-case series and literature review", Ingo von Both, doi: 10.1016/j.jflm.2026.103130. Online ahead of print

Dr. David Wishart:

1. "Language model-guided anticipation and discovery of mammalian metabolites". Qiang H, Wang F, Lu W, Xing X, Kim H, Mérette SAM, Ayres LB, Oler E, AbuSalim JE, Roichman A, Neinast M, Cordova RA, Lee WD, Herbst E, Gupta V, Neff SL, Hiebert-Giesbrecht M, Young A, Gautam V, Tian S, Wang B, Röst H, Baidwan J, Greiner R, Chen L, Johnston CW, Foster LJ, Shapiro AM, Wishart DS, Rabinowitz JD, Skinnider MA. Nature. 2026 Mar;651(8104):211-220. PMID: 41535467
2. "Novel Psychoactive Substances: Slaying the Dragon With Artificial Intelligence". Wishart DS, Kovur P, López-Hernández Y. Ther Drug Monit. 2026 Apr 1;48(2):149-159. PMID: 41413933
3. "A scoring system for validity assessment of biomarkers of food intake". Hassenberg C et al. Crit Rev Food Sci Nutr. 2026 Apr 29;1-27. PMID: 42053260
4. "The NMR Exchange Format (NEF): Specification and Applications". Płoskoń E et al. bioRxiv [Preprint]. 2026 Apr 24. PMID: 42079120
5. "Non-invasive welding fumes exposure assessment using exhaled breath condensate". Rafiee A, Wishart DS, Yamamoto SS, Quecke E, Sadovska D, Quémerais B. Environ Res. 2026 Feb 15;291:123565. PMID: 41418860
6. "Automated, targeted, NMR spectral profiling of human breast milk". Lee BL et al. Metabolomics. 2026 May 29;22(3):90. PMID: 42213254
7. "Identification of High-Performing Blood Metabolite Biomarkers of Lung Cancer in a Chinese Population". Chen Z et al. Phenomics. 2026 Mar 17;6(1):50-64. PMID: 42238034
8. "Multiomics characterization of acute child illness and mortality in Africa and South Asia". Espinosa CA et al. Nat Commun. 2026 Apr 13;17(1):5171. PMID: 41974697
9. "The Metabolome as a Readout for Adverse Social Exposome Influences on Human Health - A Roadmap for Modifiable Factors and Proactive, Health". Liang N et al. medRxiv [Preprint]. 2026 Feb 3. PMID: 41674595
10. "Effects of alendronate and vitamin D on plasma metabolomic profiles in a rat model of osteoporosis". Hamza A, Wishart D, Doschak MR. J Pharmacol Toxicol Methods. 2026 Feb;137:108404. PMID: 41412429
11. "A Colorimetric Multimetabolite Assay for Quantitative Measurement of Keto Acids in Urine for At-Home Monitoring of Metabolic Disorders". Bhattacharyya D et al. J Anal Methods Chem. 2026 Feb 27;2026:4116313. PMID: 41767879
12. "Serum metabolomic profiling reveals LysoPC/PC depletion as a potential biomarker to detect avian reoviral infection in neonatal broiler chickens". Ranaraja A et al. Front Cell Infect Microbiol. 2026 May 8;16:1750590. PMID: 42180245

Dr. Janet Zhou

Peer-reviewed publications:

1. Stefan C, Jung B, Zhou J, Franssen EJF, Langman LJ, Fu L. "Urine Drug Testing: Service Models and Laboratory Practices to Meet Clinical Care Needs". Ther Drug Monit. 2026 Apr 1;48(2):185-195



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