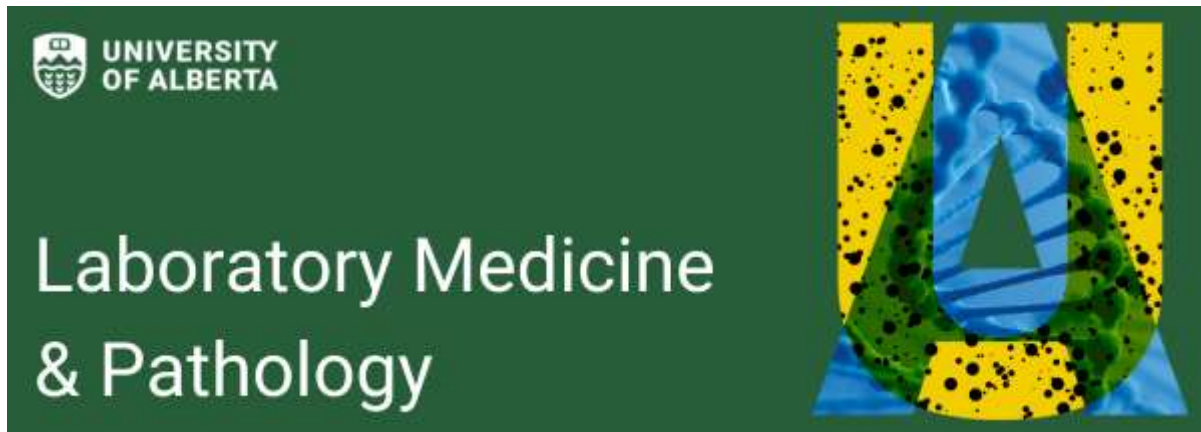

LMP Chair's Report - October 2023

1 message

Dr. Michael Mengel <Impadmin@ualberta.ca>
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Thu, Oct 26, 2023 at 1:47 PM



Chair's Report October 2023

Dear Colleagues, Learners & Friends!

Welcome to the fall 2023 Chair's report. I hope you all had a good start into the new academic year and the semester.

For this Chair's report we are launching a new format as an email embedded report for direct access from various devices. Thank you to Pam Hayes for doing such a fantastic job on developing the new format – please share with us any feedback you might have on the new Chair Report format, so that we can further improve sharing news and updates from our department effectively!

In this Chair's Report the **Spotlight on Education is an update from our Anatomical and General Pathology Residency Programs.** Our program directors Dr. Kerri Chung, Anatomical Pathology, Dr. Erin Chapman, Assistant Program Director, Anatomical Pathology, Dr. Andrea Macyk-Davey, Program Director, General Pathology, Dr. Laura Canterbury, Assistant Program Director, General Pathology (please join me in welcoming Laura to her new role!), are providing an update on the transition of our programs to competency-based training. In July 2019, both the Anatomical Pathology and General Pathology Residency Training Programs launched their Competence By Design (CBD) curricula. Four years later following the launch, the transition is well underway but not yet complete. However, the first CBD resident in AP, Dr. Conrad Moher, is expected to finish in June of 2024. Conrad already passed the written component of his certification exam and is awaiting the results of his oral exam soon. The first GP resident, Dr. Sameh Mikhail, is

expected to follow suit in 2025.

As many of you already heard in the summer of 2023, the Royal College announced that both disciplines were changing their names. Anatomical Pathology changed their name to Diagnostic and Molecular Pathology (DMP) and General Pathology changed their name to Diagnostic and Clinical Pathology (DCP) – we all likely need some time to get used to the new Discipline names and it will take a while until the new names find their way into all documents and communications.

I also encourage you to review the impressive compilation of a very scholarly productive period throughout the last quarter with numerous presentations, publications, grants, and peer recognitions for our faculty. In particular I would like to highlight **Dr. Jason Acker** being elected as Fellow of the Canadian Academy of Health Sciences – This Fellowship is considered one of the highest honours for members of the Canadian health sciences community – Congratulations Jason!

Last but not least - I hope many of you will be able join the **2023 Lab Holiday Party #WeAreLab!** This year's theme is the Winter Wonderland and the planning committee is again putting together a fun and sparkling event for Dec 9, 2023 at the Polish Hall – Tickets Sales are starting soon through your local Ticketmaster – more information to follow, so watch your inboxes!

Please also mark your calendars for the **2024 DRiVE Days** on April 26 & 27, 2024. In addition to many research, innovation, professional development and education updates, we have two high caliber speakers committed to give our named lectures!

Happy Halloween!

Michael

Dr. Michael Mengel, MD
Professor and Chair
Department of Laboratory Medicine & Pathology, University of Alberta
North Sector Medical Director, Alberta Precision Laboratories (APL)

Spotlight on Education

Anatomical and General Pathology Residency Programs

Dr. Kerri Chung, Program Director, Anatomical Pathology
Dr. Erin Chapman, Assistant Program Director, Anatomical Pathology
Dr. Andrea Macyk-Davey, Program Director, General Pathology
Dr. Laura Canterbury, Assistant Program Director, General Pathology

Seasons of Change for Anatomical and General Pathology Training Programs

In July 2019, both the Anatomical Pathology and General Pathology Residency Training Programs launched their Competence By Design (CBD) curricula. Over the past several

years, the Royal College of Physicians and Surgeons of Canada has been transitioning programs from a time-based curriculum to a more competency-based structure. The goals of the transition include: providing trainees with more timely, specific feedback; addressing the opportunistic “it’s up to luck if you see a case of it” nature of medical education; and eliminating the high-stakes pass-or-fail rotation evaluations. Prior to launch, each discipline’s Specialty Committee met in a series of workshops over 18 months, to develop their discipline’s competencies and training requirements in a suite of documents which were then handed off to the individual programs to implement.

In the controlled environment of an Ottawa meeting room, these two small but dedicated groups of pathologists thoughtfully distilled their specialty’s competencies into a plan to train the next generation of pathologists. Developing those competencies and training requirements was unquestionably a crucial and complex task, but it was only the first step. The real test was out in the wilds of the Canadian training programs, where each program exists in a unique ecosystem with real people and real constraints.

Implementing the curriculum at UofA involved engaging with many groups at multiple levels, including faculty, residents, and staff. Faculty development saw our on-the-ground teaching faculty attending workshops and rounds to develop an understanding of what was changing, why it was changing, and how it would affect their daily work of evaluating residents in the workplace. Faculty needed to be recruited for roles that didn't previously exist, such as Academic Advisors and members of the Competence Committees. Existing “traditional stream” residents graciously agreed to pilot some of the changes, allowing staff at each training site the opportunity to get hands-on practice with the evaluations ahead of the first cohort of CBD residents. Lab staff, including pathology assistants, technologists, and lab assistants, all became involved in new rotations and/or evaluations that were now requirements of the new curriculum.

Residents entering the CBD curriculum each undergo CBD orientation at the start of their training to become familiar with the expectations of the curriculum, with its increased emphasis on the residents’ proactive role in their learning. Instead of receiving evaluations at the end of the rotation, they actively seek out feedback on a daily basis. Many of the “shared wisdoms” that are traditionally passed down from senior residents to junior residents to help smooth their training journey also had to be adjusted and adapted: rotations and experiences were added, removed, extended, or shortened; the timing of when they could expect to take on lead resident duties changed; critically, the preparation for the Royal College certification had to take into consideration the fact that it was being administered a year earlier in their training than before!

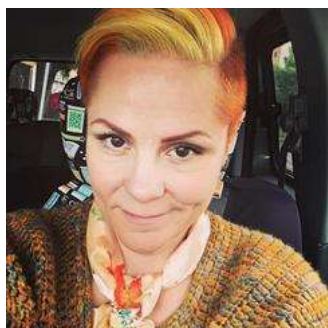
Like any major change, there have been many contributors to making CBD a success in the UofA pathology programs. The programs have benefitted from support from the Faculty of Medicine and Dentistry Postgraduate Medical Education, both before and after launch. Program Administrator Kathryn Tomlinson, shared by both the AP and GP programs, successfully managed overlapping residents in two different curricula (residents who entered under the traditional time-based system and new residents entering under CBD) with different rotation schedules and evaluation systems. The residents adjusted

with grace to new assessment tools, new orientation activities, and new exam timing. They provided feedback on what was working and what wasn't, and as a result were able to see some adjustments at the national level to some of the training requirements. The operational staff worked with the programs to get the residents what was needed to fulfill those requirements. However, without a doubt, the greatest kudos goes out to our dedicated teaching faculty. They have successfully adopted the biggest change in Canadian postgraduate medical education in 100 years while simultaneously managing the COVID-19 pandemic, ConnectCare launch, and ongoing upheavals in the delivery of laboratory services to the patients of Alberta. If you are reading this, it is highly likely you have contributed to making this change happen, and you have our thanks.

Since change has been a recurring theme for Lab Medicine, overhauling the residency curriculum wasn't quite enough. In the early summer of 2023, the Royal College announced that both disciplines were changing their names. **Anatomical Pathology changed their name to Diagnostic and Molecular Pathology (DMP) and General Pathology changed their name to Diagnostic and Clinical Pathology (DCP)**. The old discipline names will be with us for a while yet as they are slowly phased out, but you can expect to see the new names seeping into more documents and spaces in the months to come.

Four years following the launch of Competency by Design by the AP and GP programs, the transition is well underway but not yet complete. The first CBD resident in AP, Dr. Conrad Moher, is expected to finish in June of 2024. He has already passed the written component of his certification exam and is awaiting the results of his oral exam at the time of this writing. The first GP resident, Dr. Sameh Mikhail, is expected to follow suit in 2025. But even as we proudly see our first cohort of CBD residents prepare to graduate, our CBD journey is still in its early years. There will continuously be improvements to be made as our residency training programs continue to evolve, adapt and grow.

New Appointments



Welcome Ms. Rhonda Pouliot!
Ms. Pouliot is the new Director of the Medical Laboratory Science (MLS) Program.

The Department also welcomes:

- **Dr. Jackie Chan**—Clinical Lecturer—Staff Pathologist, RAH
- **Dr. Lily Olayinka**—Clinical Lecturer—Clinical Chemist, DL

New Appointments for Faculty/Clinical Faculty:

Dr. Laura Canterbury

· Assistant Program Director for the Diagnostic and Clinical Pathology (General Pathology) Residency Program, starting Oct 1, 2023

Dr. Andrei Drabovich

· Board of Directors, the Canadian National Proteomics Network (<https://cnpn.ca>)
· Associate Editor, Clinical Proteomics journal (BMC, Springer Nature; <https://clinicalproteomicsjournal.biomedcentral.com>)

Dr. Kareena Schnabl

· Member of the Autoantibody Network – appointed Sept 21, 2023

Dates to Remember

December 9, 2023 Lab Holiday Party #WeAreLab

April 26-27, 2024 [DRIVE Days](#)

October 10-12, 2024 [The Banff Pathology Course](#)



Lab Holiday Party
2023
#WeAreLab

Winter Wonderland

December 9th!

Cocktails 6:00 and Dinner 7:00

Polish Hall, 10960-104 St NW

Dancing!

Photo booth!

Door Prizes!

Tickets available until November 24th
See your site-based
ticket sales rep for tickets (45\$)
Sparkly wonderland attire (optional)

Scholarly Achievements
June 1, 2023 to September 30, 2023

Awards

Dr. Jason Acker

Elected Fellow of the **Canadian Academy of Health Sciences** – Fellows of the Academy are elected on the basis of their demonstrated leadership, creativity, distinctive competencies, commitment to advancing academic health sciences and commitment to diversity, equity and inclusion. The CAHS Fellowship is considered one of the highest honours for members of the Canadian health sciences community and carries with it covenant to serve the Academy and Canadian society. [Announcement from CAHS.](#)

Dr. Steven Drews

Canadian Blood Services Five Year Service Award

Dr. Janet Elliott

Minghan (Harry Yu) – Cryobiology Travel Grant winner for the Cryobiology 2023 conference (July 24-28, 2023, Minneapolis, MN, USA)

Grants

Dr. Albert Tsui

Title: Canadian Population Screening for Risk of Type 1 Diabetes Research Consortium, Funding Program: Team Grant: CIHR-JDRF Type 1 Diabetes Screening Research Consortium, Role: Principle applicant, Funding amount going to LMP: ~\$700,000 (Total grant: \$12 million), Duration: Sep 2023 to Aug 2027

Recent Presentations

Dr. Marcia Abbott:

1. "A Quick Transition", Pathologists' Assistant Rounds, Alberta, Sept 20, 2023, Described a rare case presentation on peritoneal biphasic mesothelioma, focusing on the cytologic and histologic aspects, while addressing pertinent clinical aspects, images and lesional facts
2. Gynecological Cytology, BIO Ventures for Global Health/American Society of Cytology, Aug 18, 2023, African Access Initiative, Virtual Pathology Mentorship Platform, Invited virtual guest speaker for "Gynecological cytology", which included topics of gyn preparatory techniques, adequate pap smears, NILM, LSIL and HSIL through cases examples, as well as, HPV testing and an overall Canadian perspective to an African based healthcare professional cohort

Dr. Jason Acker:

1. Peer Review: "A community approach to quality science". 33rd Regional Congress of the International Society for Blood Transfusion, Gothenburg, Sweden, June 20, 2023.

Dr. Ben Adam:

1. American Transplant Congress, San Diego CA, June 5, 2023: "Applying Histological Findings to Expedite Chronic Active ABMR Diagnosis"

Dr. Andrei Drabovich:

1. Invited speaker. Talk: "Quantification and characterization of isotype-, subclass- and clonotype-

resolved immunoglobulins by immunoaffinity proteomics”, 106th Canadian Chemistry Conference and Exhibition (CCCE2023), June 7, 2023, Vancouver, BC

2. Speaker. Talk: “Analytical proteomics for quantification and characterization of low-abundance proteins and immunoglobulins”. 65th International Conference on Analytical Sciences and Spectroscopy (ICASS2023), July 27, 2023, Ottawa, ON

Dr. Steven Drews:

1. “Safety initiatives” Canadian Blood Services Safety, Research and Ethics Committee (SREC) Meeting, with Isra Levy and Sheila O’Brien, June 6, 2023.

2. “Approaches and lessons learned when developing, validating, and implementing clinical microbiology tests outside of a US regulatory environment.” June 17, 2023. ASM, Houston, TX, USA.

3. Co-organizer (with Evan Bloch, Johns Hopkins University, Baltimore, MD, USA) “Transfusion Transmitted Infectious Diseases (TTID)”. Working party meeting in Gothenburg, Sweden (June 17, 2023).

4. “Overview of Infectious Disease Prevention Measures at the Blood Centre: How we prevent acute and delayed transfusion transmitted infections.” Canadian Blood Services Transfusion Medicine Trainees. Based out of University of Toronto. July 11, 2023.

5. “Emerging Pathogens Report (Q1 FY23-24)” Canadian Blood Services Executive Management Team, Online, July 25, 2023.

6. “Anti-retroviral dosage in blood donors – Monitoring blood donor compliance.” Canadian Blood Services Laboratory Staff. September 8, 2023. Brampton and Calgary, In-person and virtual.

7. “The impact of climate change on blood operators and the blood supply.” Canadian Blood Services Scientific, Research and Ethics Committee with Isra Levy and Chantale Pambrun. Online September 11, 2023.

8. MLSCI 470/570 - Moderated two one-hour case study session. “Transfusion-transmitted syphilis.” Four undergraduate and one graduate student. University of Alberta, in person. September 19, 2023

9. “Babesia surveillance program.” With Mindy Goldman, Isra Levy, Chantale Pambrun, Carmen Charlton. Canadian Blood Services, Executive Management Team, Online September 26, 2023

10. Finding your niche: Doing relevant research when it’s not your full-time job” Canadian Blood Services MD face-to-face, Online September 27, 2023

Dr. Janet Elliott

Oral presentations:

1. M. Yu (Speaker – in person), L. A. Marquez-Curtis, J. A. W. Elliott, “Delayed injury and cell-type-specific responses during cryopreservation of endothelial monolayers,” CRYO2023 60th Annual Meeting of the Society for Cryobiology, Minneapolis, MN, USA, July 25, 2023.

2. M. Shahsavari, J. A. W. Elliott (Speaker – in person), N. M. Jomha, A. P. Ribeiro Rodrigues, “An efficient metal container and storage methods for successful articular cartilage vitrification”, CRYO2023 60th Annual Meeting of the Society for Cryobiology, Minneapolis, MN, USA, July 25, 2023.

3. E. Ashrafi (Speaker – virtual in real-time), J. A. W. Elliott, “Comparing trypan blue and fluorescent SYTO13/GelRed assays in order to investigate the effects of freeze/thaw and different cryoprotectants on membrane integrity”, CRYO2023 60th Annual Meeting of the Society for Cryobiology, Minneapolis, MN, USA, July 25, 2023.

4. L. A. Marquez-Curtis (Speaker – in person), L. S. Dorobantu, D. Sauvageau, J. A. W. Elliott, “Comparison between dimethyl sulfoxide and glycerol for cryopreservation of swine-colostrum-derived cells”, CRYO2023 60th Annual Meeting of the Society for Cryobiology, Minneapolis, MN, USA, July 26, 2023.

5. Trip Tim (Host), Janet A. W. Elliott (Speaker), Allison Hubel (Speaker), Mary Hagedorn (Speaker). "Fireside chat: Women CryoFellows of the Society for Cryobiology". CRYO2023 60th Annual Meeting of the Society for Cryobiology, Minneapolis, MN, USA, July 27, 2023.

Poster Presentations:

1. N. Abdelwahab (Presenter), M. Shahsavari, K. Wu, L. Laouar, T. D. Skene-Arnold, J. A. W. Elliott, N. M. Jomha, “Choosing the best storage media for hypothermic storage of porcine osteochondral dowels”, CRYO2023 60th Annual Meeting of the Society for Cryobiology, Minneapolis, MN, USA, July 25–27, 2023 [Poster presented virtually].

2. M. Shahsavari (Presenter), J. A. W. Elliott, N. M. Jomha, A. P. Ribeiro Rodrigues, “Using a no-touch closed metal container for articular cartilage vitrification and storage”, CRYO2023 60th Annual Meeting of the Society for Cryobiology, Minneapolis, MN, USA, July 25–27, 2023 [Poster presented virtually].

Ms. Christina Lau:

1. Presentation title: “Experiences with Virtu-WIL”,

Authorship list: Christina Lau (Wong), Jennifer Doyle, Title of conference: 7th Virtual Lunch and Learn - CAAHP,

CICA and Simulations Canada, Online on March 22, 2023, Presentation information: Two panelists (Christina Lau and Jennifer Doyle) will focus and share their experience and methodology for implementing virtual simulations with their students.

2. MLS participated in CICA's VirtuWIL program this winter term. Christina provided virtual simulations between Jan -March 2023. The MLS program was paid \$10,150 for delivering the program and will be using those funds to future improve/do research into simulations used by the MLS program.

Dr. Kareena Schnabl:

1. “The Autoantibody Dilemma – Which Test Should I Trust?” Presented at the Autoantibody Summit Sept 22, 2023 in Mississauga and also at Edmonton rheumatology rounds on Sept 27, 2023

Recent Publications

Dr. Jason Acker:

(trainees asterisk)

1. Cloutier, M., Cognasse, F., Hitomi Yokoyama, A.P., Hazegh, K., *Mykhailova, O., Brandon-Coatham, M., Hamzeh-Cognasse, H., Kutner, J.M., Arthaud, C-A., Acker, J.P. and Kanas T. “for the Biomedical Excellence for Safer Transfusion (BEST) Collaborative. Quality assessment of red blood cell concentrates from blood donors at the extremes of the age spectrum: The BEST Collaborative Study”. *Transfusion* (2023). doi: 10.1111/trf.17471

2. Isiksacan, Z., D’Alessandro, A., Wolf, S.M., McKenna, D., Tessier, S., Kucukal, E., Gokaltun, A., *William, N., Sandlin, R.D., Bischof, J., Narla, M., Busch, M.P., Elbuken, C., Gurkan, U.A., Toner, M., Acker, J.P., Yarmush, M.L., Usta, B. “Assessment of stored red blood cells through lab-

on-a-chip technologies for precision transfusion medicine". Proceedings of the National Academy of Sciences USA 120 (32): e2115616120 (2023).

3. Rowlison, T., Nagashima, J., Acker, J.P., Ben, R., Daly, J., Hagedorn, M. and Comizzoli, P. "First report of successful laser warming for frozen gonadal tissues and oocytes in the domestic cat model". Biobanking and Biopreservation 21 (4): 433-438 (2023).

4. Blake, J.T., Acker, J.P. and Mastronardi, C. "Using analytical methods and simulation to estimate the magnitude of errors in calculations for recovery in washed red blood cells". In "Proceedings of the 13th International Conference on Simulation and Modeling Methodologies, Technologies, and Application" G. Wagner, F. Werner, F. De Rango Eds. (SCITEPRESS Digital Library, Setúbal, Portugal, 2023), p. 340-345.

5. *William, N., Isiksacan, Z., *Mykhailova, O., Olafson, C., Yarmush, M.L., Usta, O.B., and Acker, J.P. "Comparing two extracellular additives to facilitate extended storage of red blood cells in a supercooled state". Frontiers in Physiology 14: 1165330 (2023).

6. Kübler, W.M., *William, N., Post, M., Acker, J.P. and McVey, M.J. "Extracellular vesicles – Effectors of transfusion-related acute lung injury". American Journal of Physiology – Lung Cellular and Molecular Physiology 325 (3): L327-L341 (2023).

7. *Li, W. and Acker, J.P. "CD71+ RBCs: A potential immune mediator in transfusion". Transfusion and Apheresis Science 62 (3): 103721 (2023).

8. *William, N., Mangan, S., Ben, R.N. and Acker, J.P. "Engineering compounds to control ice nucleation and recrystallization". Annual Review of Biomedical Engineering 25: 333-362 (2023).

Publications IN PRESS:

1. *Alshalani, A., de Wissel, M., Tuip-de-Boer, A.M., Roelofs, J.T.H., van Bruggen, R., Acker, J.P. and Juffermans, N.P. "Transfusion of female blood in a rat model is associated with red blood cell entrapment in organs". PLOS One (2023).

2. Kaufman, R.M., Marks, D., Flamand, Y., Acker, J.P., Brown, B., Marschner, S., Pandey, S., Papari, M., Petrasko, T., Olafson, C., Serrano, K., Ward, D. and Bazin, R. "for the Biomedical Excellence for Safer Transfusion Collaborative. Risk factors for T-cell lymphopenia in frequent platelet donors: The BEST collaborative study". Transfusion (2023).

3. *William, N., *Osmani, R. and Acker, J.P. "Towards the crux of sex-dependent variability in red cell concentrates". Transfusion and Apheresis Science (2023).

4. Hoffman, W.R., *Patel, P., Aden, J., Willis, A., Acker, J.P., Bjerke, E., Miranda, E., Luster, J., and Tvaryanas, "Multinational comparison study of aircraft pilot healthcare avoidance behavior". Occupational Medicine (2023).

5. Olafson, C., Ison, T., Pote, C., *William, N., *Patel, P., Clarke, G. and Acker, J.P. "Shipment of glycerolized RBC segments for red cell concentrate compatibility testing". Biobanking and Biopreservation (2023).

Technical Reports:

1. Gardner, E., Fernandes, M., Latour, C., Seftel, M., Acker, J. and Clarke, G. "Granulocyte transfusion therapy". In Clinical Guide to Transfusion, Chapter 20, 2023, 15 pages.

2. Olafson, C. and Acker, J.P. "Unit Investigation for the Rare Blood Program: Thawed RCC Unit Quality Assessment". Technical Report v1.0, August 9, 2023, 13 pages. Submitted to Dr. Matthew Yan.

Published Abstracts:

1. *Li, W., *Hemmatibardehshahi, S., *Osmani, R. and Acker, J.P. "CD71+ RBCs mediate increased erythrophagocytosis and reduced monocytes in human suspension assay". Vox Sanguinis 118 (S1): 76 (2023).

2. Ning, S., Li, N., Liu, Y., Acker, J., Arnold, D., Hillis, C., Lucier, K., Rochweg, B., Syed, S., Zeller, M. and Heddle, N. "Transfusion-related immune modulation and the use of big data analytics". *Vox Sanguinis* 118 (S1): 48 (2023).
3. *Himmat, S., Ma, I.J., Wang, X., Forgie, K., Hatami, S., Mainardi Aquiar da Silva., Acker, J.P., Dyck, J.R., Freed, D. and Nagendran, J. "Airway adiporon reduces edema in a rat model of prolonged cold ischemia and normothermic ex situ lung perfusion". *Journal of Heart and Lung Transplantation* 42 (4): S178-S179 (2023).

Dr. Ben Adam

Peer-reviewed papers:

1. Martell MT, Haven NJM, Cikaluk BD, Restall BS, McAlister EA, Mittal R, Adam BA, Giannakopoulos N, Peiris L, Silverman S, Deschenes J, Li X, Zemp RJ. "Deep learning-enabled realistic virtual histology with ultraviolet photoacoustic remote sensing microscopy". *Nat Commun.* 2023 Sep 25;14(1):5967. PMID: 37749108.
2. Mookerji N, Mittal R, Hui A, Pfanner T, Broomfield S, Dean L, Adam BA, Fung C, Tamm A, Kinnaird A. "Gleason Grade Group 4 prostate biopsy with no cancer seen on final pathology in the MRI and PSMA PET era". *IJU Case Reports.* 2023 Aug. doi: 10.1002/iju5.12614.
3. Tu W, Gottumukkala RV, Schieda N, Lavallée L, Adam BA, Silverman SG. "Perineural Invasion and Spread in Common Abdominopelvic Diseases: Imaging Diagnosis and Clinical Significance". *Radiographics.* 2023 Jul;43(7):e220148. PMID: 37319024.

Abstracts:

1. Hui A, Pfanner T, Mookerji N, Mittal R, Broomfield S, Fung C, Tu W, Dean L, Adam BA, Kinnaird A, Tamm A. "Diagnostic accuracy of 18F-PSMA-1007 PET/CT compared to multiparametric prostate MRI for primary staging of prostate cancer using final histopathology as a reference standard: A preliminary analysis of the multi-center prospective Next Generation Trial" [abstract]. *J Nuc Med.* 2023 Jun;64(Suppl 1):P1200.
2. Martell MT, Haven NJM, McAlister EA, Restall BS, Cikaluk BD, Mittal R, Adam BA, Giannakopoulos N, Peiris L, Silverman S, Deschenes J, Li X, Zemp RJ. "Ultraviolet photoacoustic remote sensing and scattering microscopy for CycleGAN-enabled realistic virtual histology" [abstract]. *Proc. SPIE 12631, Opto-Acoustic Methods and Applications in Biophotonics VI, 126310C* (11 August 2023); <https://doi.org/10.1117/12.2671022>.
3. Buxeda A, Fixsen I, Gibson I, Wiebe C, Nickerson P, Campbell P, Polanco N, Crespo M, Mengel M, Adam BA. "DSA-Negative Microvascular Inflammation in Kidney Transplant Biopsies: Gene Expression Comparison with Native and Transplant Kidney Controls" [abstract]. *Am J Transplant.* 2023; 23(6): S626.
4. Buxeda A, Pérez-Sáez M, Chamoun B, Gimeno J, Torres I, Pascual J, Mengel M, Adam BA, Crespo M. "Clinical and Molecular Spectrum of V-Lesion" [abstract]. *Am J Transplant.* 2023; 23(6): S371.

Dr. Matthew Croxen:

1. Zhuo R, Freedman SB, Xie J, Charlton C, Plitt S, Croxen MA, Li V, Tarr GAM, Lee B, Ali S, Chui L, Luong J, Pang X. "Molecular epidemiology of rotavirus among children in Western Canada: Dynamic changes in genotype prevalence in four consecutive seasons". *J Med Virol.* 2023 Aug;95(8):e29028. doi: 10.1002/jmv.29028. PMID: 37573569
2. Williams AN, Croxen MA, Demczuk WHB, Martin I, Tyrrell GJ. "Genomic characterization of emerging invasive *Streptococcus agalactiae* serotype VIII in Alberta, Canada". *Eur J Clin*

Dr. Andrei Drabovich:

1. Walter, J.; Eludin, Z.; Drabovich, A.P. "Redefining serological diagnostics with immunoaffinity proteomics". *Clinical Proteomics*, 2023, accepted Sept 19, doi: 10.1186/s12014-023-09431-y

Dr. Steven Drews

Peer-Reviewed Publications:

1. Candotti, D., Drews, S.J., Faddy, H.M.; ISBT Transfusion-Transmitted Infectious Diseases Working Party, Subgroup on Viruses. "Monitoring viral genomic sequences in transfusion-transmitted viruses". *Vox Sang*. 2023 Jun 1. doi: 10.1111/vox.13444. Epub ahead of print. PMID: 37259832.
2. Lin, Y.J., Evans, D.H., Robbins, N.F., Orjuela, G., Abe, K.T., Rathod, B., Colwill, K., Gingras, A.C., Tuite, A., Yi, Q.L., O'Brien, S.F., Drews, S.J. "Diminished Neutralization Capacity of SARS-CoV-2 Omicron BA.1 in Donor Plasma Collected from January to March 2021". *Microbiol Spectr*. 2023 Jun 8:e0525622. doi: 10.1128/spectrum.05256-22. Epub ahead of print. PMID: 37289096.
3. Murphy, T.J., Swail, H., Jain, J., Anderson, M., Awadalla, P., Behl, L., Brown, P.E., Charlton, C.L., Colwill, K., Drews, S.J., Gingras, A.-C., Hinshaw, D., Jha, P., Kanji, J.N., Kirsh, V.A., Lang, A.L.S., Langlois, M.-A., Lee, S., Lewin, A., O'Brien, S.F., Pambrun, C., Skead, K., Stephens, D.A., Stein, D.R., Tipples, T., Van Caeselele, P.G., Evans, T.G., Oxlade, O., Mazer, B.D., Buckeridge, D.L. *CMAJ* Aug 2023, 195 (31) E1030-E1037; DOI: 10.1503/cmaj.230249
4. Tordon, B., Drews, S.J., Flahr, F., Bennett, K., Gaziano, T., Anderson, D., Nahirniak, S., Gerges, H., Tyrrell, G.J., Mah, J., Ndao, M., Bigham, M., Seftel, M.. "Canadian Blood Services traceback investigation of a suspected case of transfusion-transmitted malaria". *Transfusion*. 2023 Sep 16. doi: 10.1111/trf.17549. Epub ahead of print. PMID: 37715564.
5. Leblanc, J.F., Custer, B., Van de Laar, T., Drews, S.J., Germain, M., Lewin, A. "HIV Pre-Exposure Prophylaxis, Blood Donor Deferral, Occult Infection, and Risk of HIV Transmission by Transfusion: A Fine Balance Between Evidence-Based Donor Selection Criteria and Transfusion Safety". *Transfus Med Rev*. 2023 Aug 22:150754. doi: 10.1016/j.tmr.2023.150754. Epub ahead of print. PMID: 37741792.
6. Drews, S.J., Kjemtrup, A.M., Krause, P.J., Lambert, G., Leiby, D.A., Lewin, A., O'Brien, S.F., Renaud, C., Tonnetti, L., Bloch, E.M. "Transfusion-transmitted Babesia spp.: a changing landscape of epidemiology, regulation, and risk mitigation". *J Clin Microbiol*. 2023 Sep 26:e0126822. doi: 10.1128/jcm.01268-22. Epub ahead of print. PMID: 37750699.

Dr. Janet Elliott

Peer-reviewed journal papers:

1. Lanah Mohammed, Leah A. Marquez-Curtis, Janet A. W. Elliott, "Cryopreservation of human cerebral microvascular endothelial cells with glycerol", *Cryobiology*. 2023 Jun 14; 113:104551. doi: 10.1016/j.cryobiol.2023.104551. Epub ahead of print.
2. Mary Crisol M, Kezhou Wu, Barry Congdon Jr. Tamara D. Skene-Arnold, Leila Laouar, Janet A. W. Elliott, Nadr M. Jomha, "Chondrocyte viability of particulated porcine articular cartilage is maintained in tissue storage after cryoprotectant exposure, vitrification, and tissue warming", *Cartilage*. 2023;0(0). doi:10.1177/19476035221118656
3. Noor Abdelwahab, Mohammadhamed Shahsavari, Kezhou Wu, Leila Laouar, Tamara D.

Skene-Arnold, Janet A. W. Elliott, Nadr M. Jomha, "Effect of storage media on chondrocyte viability during cold storage of osteochondral dowels", *Cell Tissue Bank*. 2023 Aug 8. doi: 10.1007/s10561-023-10104-1. Epub ahead of print.

4. Sergio Enrique Tapia Lishner, Leah A. Marquez-Curtis, Janet A. W. Elliott JAW, "Permeation kinetics of dimethyl sulfoxide in porcine corneal discs", *Cryobiology*. 2023 Aug 10:104566. doi: 10.1016/j.cryobiol.2023.104566. 9 journal pages. Online ahead of print.

Dr. Victoria Higgins

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1. Miller J, Bohn MK, Higgins V, Nichols M, Mohammed-Ali Z, Selvaratnam R, Sepiashvili L, Adeli K. "Pediatric reference intervals for endocrine markers in healthy children and adolescents on the Liaison XL (DiaSorin) immunoassay system". *Clin Biochem*. 2023 Sept;120:110644

2. Steele CM, Bayley MT, Bohn MK, Higgins V, Peladeau-Pigeon M, Kulasingam V. "Reference Values for Videofluoroscopic Measures of Swallowing: An Update". *J Speech Lang Hear Res*. 2023 Sept;1-21

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5. Higgins V, Beriault D, Mostafa A, Estey M, Agbor T, Ismail O, Parker ML. "Variation in processes and reporting of cerebrospinal fluid oligoclonal banding and associated tests and calculated indices across Canadian clinical laboratories". *Clin Biochem*. 2023 Jun;116:105-112

Dr. Michael Mengel

Peer-reviewed publications:

1. Mengel M, Haas M. "Finding the right context of use for molecular transplant diagnostics in kidney allograft biopsies". *Kidney Int*. 2023 Sep;104(3):423-425

2. Mengel M, Li XC. "Automation of Banff rules for precision diagnosis". *Am J Transplant*. 2023 Jul, in press

Dr. Iveta Sosova:

1. Higgins V, MacNeil L, Sosova I, Ridsdale R, Bruce A, Brinc D, David W, Rara J, Bordeleau P, Estey MP, Parker ML, Ismail O, Agbor T. "Hemoglobin variant in disguise". *Clin Biochem*. 2023 Aug;118:110589. doi: 10.1016/j.clinbiochem.2023.110589. Epub 2023 May 24. PMID: 37236295

Dr. William Stokes:

1. Lam JC, Stokes W. "Management of pyogenic liver abscesses: Contemporary strategies and challenges". *J Clin Gastroenterol*. 2023;57(8):774-81

Dr. Albert Tsui

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1. Hill J, Yang EH, Lefebvre D, Doran S, Graham M, Van Diepen S, Raizman JE, Tsui AKY, Rowe

- BH. "Effect of the introduction of a high sensitivity troponin I and associated diagnostic protocol on emergency department length of stay". *CJC Open*. Sep 2023 (In-press)
2. de Koning L, Orton D, Seiden Long I, Boyd J, Kellogg M, Abdullah A, Naugler C, Tsui A, Strange B, Glaser D. "Distribution of videos demonstrating best practices in preventing hemolysis is associated with reduced hemolysis among nurse-collected specimens in hospitals". *Clin Biochem*. 2023 Sep;119:110632
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4. Kavsak PA, Clark L, Arnaldo S, Lou A, Shea JL, Eintracht S, Lyon AW, Bhayana V, Thorlacius L, Raizman JE, Tsui AKY, Djiana R, Chen M, Huang Y, Booth RA, McCudden C, Lavoie J, Beriault DR, Blank DW, Fung AWS, Hoffman B, Taher J, St-Cyr J, Yip PM, Belley-Cote EP, Abramson BL, Borgundvaag B, Friedman SM, Mak S, McLaren J, Steinhart B, Udell JA, Wijesundera HC, Atkinson P, Campbell SG, Chandra K, Cox JL, Mulvagh S, Quraishi AU, Chen-Tournoux A, Clark G, Segal E, Suskin N, Johri AM, Sivilotti MLA, Garuba H, Thiruganasambandamoorthy V, Robinson S, Scheuermeyer F, Humphries KH, Than M, Pickering JW, Worster A, Mills NL, Devereaux PJ, Jaffe AS. "Analytic result variation for high-sensitivity cardiac troponin: Interpretation and consequences". *Canadian Journal of Cardiology*. 2023 Jul;39(7):947-951



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