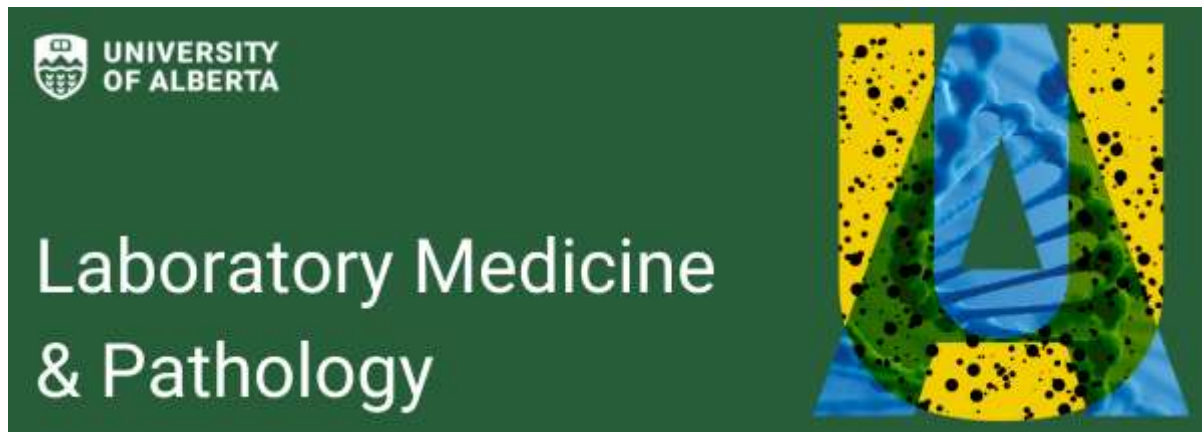

LMP Chair's Report - February 2024

1 message

Dr. Michael Mengel <Impadmin@ualberta.ca>
Reply-To: Impadmin@ualberta.ca
To: - Impadmin <Impadmin@ualberta.ca>

Thu, Feb 22, 2024 at 9:58 AM



Chair's Report February 2024

Dear Colleagues, Learners & Friends!

Welcome to the first Chair's report in 2024! I hope you all had a good start into the new year – spring break is just around the corner.....

In this Chair's Report our Spotlight is on Equity, Diversity, and Inclusion. The University of Alberta and our department are committed to an institutional culture that values, supports, and promotes equity, human rights, respect, and accountability among faculty, staff, and students. In pursue of this commitment our institution developed and launched a comprehensive Strategic Plan for EDI: <https://www.ualberta.ca/equity-diversity-inclusion/strategic-plan-for-edi/index.html>. I embrace this mission and as an initial step embarked on the many educational resources our institution offers to better understand and familiarize myself with the concepts, values, and needs for EDI, so that I can practice it myself as an integral part of our organization and society. In LMP we are lucky to have Lisa Purdy as our faculty member and the Assistant Dean EDI for the Faculty of Medicine and Dentistry. Together with Dr. Lindsay Bridgland and Dr. Majid Sikosana, Lisa jointly developed the below, succinct resource for EDI basics. Applying these to our daily activities, can make a significant impact in our organizational culture and our communities. I strongly encourage you to read through these and to explore the referenced links to more comprehensive EDI resources.

Again, our quarterly report contains an impressive compilation of a scholarly products including numerous presentations, publications, grants, and peer recognitions for our

faculty. Way to go Team LMP!

Please also mark your calendars for the **2024 DRivE Days** on April 26. & 27, 2024. In addition to many research, innovation and professional development and education updates, we have two high caliber speakers committed to give our named lectures! Also, registration is open for the **2024 Banff Pathology Course** on Endocrine Pathology: <https://banffpathologycourse.com/>

This is my last Chair's report. I would like to thank all of you for your companionship, support and inspiration you provided me with over the last decade. It was a privilege. I apologize for the mistakes I made, in particular for those which negatively impacted some of you personally. In hindsight I would have done many things differently. I am grateful for the opportunity I had to learn and mature as an individual in this Chair role, and I hope I can give back to the department as a faculty member.

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 Equity Diversity and Inclusion



Dr. Lindsay Bridgland
Director of Equity Diversity
and Inclusion, Department of
Medicine
Associate Clinical Professor,
Department of Medicine



Dr. Majid Sikosana
Clinical Lecturer, Department
of Medicine



Ms. Lisa Purdy
Associate Professor,
Department of Laboratory
Medicine & Pathology
Assistant Dean EDI

Shifting perspectives and conversations

We live and work in interesting times, often with very polarizing perspectives that do not create safe environments to question and engage in conversation that would further our

own understanding. Understanding and practice Equity, Diversity and inclusion (EDI) is based on learning, self-reflection and dialogue. Our values drive our desire to ensure the places where we learn and work are inclusive and everyone feels they belong. But what sorts of things can we as individuals do to help create inclusion and belonging? Here is a compilation of a series of sound bites created for the Department of Medicine (DoM) newsletter. They are short explanations of concepts and suggestions for your consideration.

Land Acknowledgments

By Dr. Lindsay Bridgland

Land acknowledgments are done at the beginning of lectures or public events to insert awareness of Indigenous presence and land rights. To avoid tokenism, land acknowledgments need to be carefully constructed as a reminder of all of the privileges settlers enjoy today as a result of colonialism and the ongoing violence and trauma experienced by Indigenous people. Land acknowledgments demonstrate respect, understanding and appreciation for the land and culture of Indigenous peoples that was erased and forever altered by colonialism. A useful resource to identify Indigenous lands/territories can be found at: <https://native-land.ca/>

Below is an example of a well thought out land acknowledgment from The Law Society of Alberta.

We acknowledge Treaty 6 territory- the traditional and ancestral territory of the Cree, Dene, Blackfoot, Salteaux and Nakota Sioux. We acknowledge that this territory is home to the Metis settlements and the Metis Nation of Alberta, Regions 2, 3 and 4 within the historical Northwest Metis Homeland. We acknowledge the many First Nations, Metis and Inuit who have lived in and cared for these lands for generations. We are grateful for the traditional Knowledge Keepers and elders who are still with us today and those who have gone before us. We make this acknowledgement as an act of reconciliation and gratitude to those whose territory we reside on or are visiting.

Consider writing you own personal land acknowledge. [The Center for Teaching and Learning](#) has resources to help.

Long live the chief lead.

By Dr. Majid Sikosana

You may wonder why the term "chief resident" has now been changed to "lead resident" at the University of Alberta, as well as at several other institutions across Canada. The term "chief" carries colonial connotations that cannot be overlooked. Historically, colonial powers imposed this term in a reductive or dismissive manner, simplifying complex Indigenous leadership structures into a framework that discounted other leaders in a tribe/community, especially women. The term "chief" was implemented to identify the person in charge and discounted other traditional leadership roles such as council, elders, traditional healers, and spiritual leaders. This not only misrepresented the leaders' actual

status and role(s), but imposed a foreign hierarchical structure onto Indigenous communities.

In a medical context, the title "chief" (resident/site, etc.) may inadvertently perpetuate these hierarchical and colonial underpinnings, potentially alienating groups with a history of colonial subjugation. At times, it has been used to "other" Indigenous colleagues. Though professionally established, the term can evoke negative connotations, undermining the principles of equality and respect that are crucial in healthcare. As such, re-evaluating and adapting our professional language to be more inclusive and culturally sensitive is a step towards healing historical wounds and fostering an environment of mutual respect and understanding. It's a recognition of the power of language to either perpetuate or dismantle historical inequities.

Conversations are continuing in the Faculty of Medicine & Dentistry to identify other areas where our professional language needs to be scrutinized. Please reach out to Lisa Purdy if you have found examples in your daily practice.

White Immunity- A different take on white privilege

By Dr. Lindsay Bridgland

The phrase "white privilege" can evoke a variety of emotions and opinions, including defensiveness. When this term is used, responses often include "how am I privileged?", or "I worked extremely hard to get where I am. I earned it". But white privilege is NOT the suggestion that everything a white person has accomplished wasn't earned, or that white people haven't struggled throughout their lives. The problem with "white privilege" is that it centres the individual and centres whiteness rather than focusing on the markedly different experiences that people of colour endure.

"White immunity" is a different way to understand white privilege, one that evokes empathy and understanding. White people receive social inoculation from racial oppression. The term "white immunity" looks holistically at society to examine how the most marginalized individuals are being treated and asks the question "how is my experience different from that of people of colour"? Racism isn't about an individual; rather it is a system of advantage based upon race in which white people are immune to historically racist systemic and structural barriers.

When we think about our own privilege, what about considering it a gift? And then spend some time reflecting with empathy about others who aren't so lucky. What kinds of changes can we make so everyone has privilege?

On Being an Ally

By Dr. Lindsay Bridgland

Being an ally requires commitment and work. To be an ally is to acknowledge one's privilege in order to advocate for those with less privilege. The goal is to break down systems that challenge the values of equity, diversity, inclusion and anti-racism. Allyship is not passive- it is an active process that involves intentional learning, unlearning and re-

evaluation. It is the recognition of social and cultural injustice and the active pursuit of social justice.

Being an ally can be uncomfortable. An ally will surely make mistakes, but they acknowledge their mistakes, apologize and vow to do better next time. Allies promote their colleagues, foster trust and seek out ways to transfer their power and privilege to those who lack it.

Dr. Aimee Bouka says it best. To be an ally is to “look for the most oppressed and marginalized in the room. Guaranteeing their voice and freedom benefits everyone”.

See this article in the Harvard Business Review: [7 Ways to Practice Active Allyship](#)

New Appointments

The Department welcomes:

- **Ms. Nicole Herbers**—Clinical Lecturer—Pathologists’ Assistant APL, UAH
- **Dr. Alejandro Wolf**—Clinical Lecturer—Pathologist, UAH
- **Dr. Dalila Villalobos**—Clinical Lecturer—Clinical Fellow, UAH
- **Dr. Zlatica Biljetina**—Assistant Clinical Professor—Anatomical Pathologist, Lethbridge
- **Dr. Anna Piskorski**—Clinical Lecturer—Pathologist, APL Base Lab
- **Dr. Jake Mandziuk**—Clinical Lecturer—Pediatric and Anatomic Pathologist, UAH
- **Dr. Caylea Foster**—Clinical Lecturer—Assistant Medical Examiner, OCME Calgary
- **Dr. Jonathan Keow**—Clinical Lecturer—Pathologist, APL Base Lab
- **Dr. Thamogran Pillay**—Clinical Lecturer—Assistant Chief Medical Examiner, OCME Calgary

New Appointments for Faculty/Clinical Faculty:

Dr. Jason Acker

Appointed as the Co-Chair of the international Biomedical Excellence for Safer Transfusion (BEST) Collaborative Conventional Components Team and a member of the Board of Directors

Dr. Laura Canterbury and Dr. Mireille Kattar

College of American Pathologists (CAP) House of Delegates members representing Alberta (Drs. Mahmood, Canterbury, and Kattar are the only representatives for Alberta)

Dr. Anne Halpin

Assistant Professor, Department of LMP (transitioned from Clinical Faculty position)

Dates to Remember

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

Registration for DRIVE 2024 is now open! [Register here!](#)

2024 Keynote Speakers

**DR. JOHN W. MACGREGOR
MEMORIAL LECTURE**

Friday, April 26

Dr. Robert Campbell
University of Tokyo



DR. RE BELL MEMORIAL LECTURE

Saturday, April 27

Dr. David Asch
University of Pennsylvania



October 9-12, 2024 [The Banff Pathology Course](#)



Banff Pathology
Course

2024 BANFF PATHOLOGY COURSE

ENDOCRINOLOGICAL PATHOLOGY

For practicing general and anatomic pathologists, pathologist assistants, endocrine surgeons, clinicians specializing in endocrinology and oncology, as well as residents and fellows pursuing training in any of these specialties

OUR SPEAKERS



**DR. ANTHONY
J. GILL**
UNIVERSITY OF
SYDNEY



**DR. ANDREW
BELLIZZI**
UNIVERSITY OF
IOWA HOSPITALS
AND CLINICS



**DR. WILLIAM
C. FAQUIN**
HARVARD MEDICAL
SCHOOL



**Banff Centre for Arts
& Creativity**
107 Tunnel Mountain Dr,
Banff, AB

Oct 9-12,
2024

FOR REGISTRATION & FURTHER INFORMATION:



banffpathologycourse.com



banffpathology@ucalgary.ca

Scholarly Achievements

October 1, 2023 to January 31, 2024

Awards

Dr. Janet Elliott

- Fellow of the Canadian Academy of Engineering (2023)
- Faculty of Engineering Graduate Teaching Award (2023)

Dr. Anne Halpin

- International Scholar Award, American Society for Histocompatibility and Immunogenetics (ASHI), Annual Meeting, San Antonio, TX, USA, October 2023
- Best Written Lay Summary, American Society for Histocompatibility and Immunogenetics (ASHI), Annual Meeting, San Antonio, TX, USA, October 2023

Grants

Dr. Sumit Das

Nov 27, 2023, ALS Canada-Brain Canada Discovery Grant - \$125,000 over 2 years,
V. Sim, S. Das, S Kalra

Dr. Anne Halpin

Funding: \$155,000 total: \$125,000 Ideas to Innovation / \$30,000 Lab to Market, National Sciences and Engineering Research Council of Canada (NSERC), Project: Innovation after a century: Bead-based assay for ABO antibody detection, Funding Period: January, 2024-January 2025, Role: Co-applicant

Dr. Roger Leng

Bridge fund as a PI from the CIHR Project Program on February 1, 2024 (one year, \$100,000)

Recent Presentations

Dr. Jason Acker:

1. Yazdanbakhsh, M., Eid, H., Rabi, J., Cheung, P-Y., and Acker, J.P. "Effect of adult packed red blood cell subpopulations on fetal red blood cell hemoglobin oxygen affinity". AABB Conference. Nashville, TN. Presented Oct 15, 2023 - POSTER
2. Kanas, T., Bean, S., Thomas, K., Dzieciatkowska, M., Yokoyama, A., Cognasse, F., Cloutier, M. and Acker J.P. "Age and sex differences in the red blood cell proteome highlight how donor factors may impact blood product quality: The BEST Collaborative Study". AABB Conference. Nashville, TN Presented Oct 15, 2023 - ORAL
3. Olafson, C., Turner, T.R., Mykhailova, O., and Acker, J.P. "Validation of a small-scale red blood cell cryopreservation method". AABB Conference. Nashville, TN. Presented Oct 15, 2023 - POSTER
4. Li, W., Liu, Y., Lucier, K.J., Heddle, N.M. and Acker, J.P. "Effect of donor and recipient characteristics on hemoglobin increments in intensive care unit patients receiving red blood cell transfusion". AABB Conference. Nashville, TN. Presented Oct 15, 2023 - POSTER

Dr. Thambirajah Balachandra:

1. Thambirajah Balachandra; Dana Johnson; Ariba Kamal; "Manner of Death Determination in Medical Assistance in Dying (MAiD)"; Annual Meeting of the National Association of Medical Examiners, Oct 16, 2023

Dr. Rebecca Brassington

Abstract:

1. Brassington R, Bratu I, Silverman S, "Secretory breast carcinoma (SBC) in an 8-year-old male: Report of an exceptionally rare case with review of clinicoradiologic and pathomolecular findings of SBC in the male pediatric population", San Antonio Breast Cancer Symposium, San Antonio TX, December 5-9 2023

Dr. Steven Drews:

1. "Key questions and points of discussion for the HemaNetwork Surveillance Strategy Sub-Group" with Agatha Jassem and Tim Evans, Hema-Net Network Surveillance Strategy Sub-Group, Virtual, October 5, 2023
2. "Update on Hema-Net Network Surveillance Strategy Sub-Group" with Agatha Jassem and Tim Evans. Hema-Net Network Membership Group Meeting, Virtual, October 12, 2023
3. "Update on Hema-Net Network Surveillance Strategy Sub-Group" Hema-Net Network Membership Group Meeting, Virtual, October 27, 2023
4. "Update on suspect transfusion-transmitted malaria in Canada" European Blood Alliance Emerging Infectious Diseases Group Virtual, October 23, 2023
5. "Understanding the epidemiology of Babesia in Canadian blood donors impacted by a changing climate environment." Canadian Public Health Association Infectious Diseases and Climate Change Forum, Online, November 8, 2023
6. "Influenza in humans: Taxonomy, laboratory identification, vaccine effectiveness." University of Alberta Infectious Diseases/Microbiology Rounds. Virtual. November 14, 2023
7. "Understanding the epidemiology of Babesia in Canadian blood donors impacted by a changing climate environment." National vector-borne diseases sharing table, Virtual, November 15, 2023
8. "It's got a nucleus, it's in me, and it's not human: How we think about parasite risks to the blood supply." 2023 Ontario transfusion transmitted injuries surveillance system annual meeting. Virtual, November 17, 2023
9. "Malaria NAT Primer." Canadian Blood Services Transfusion-transmitted malaria (TTM) risk-based decision making (RBDM): Core meeting, Virtual, November 20, 2023
10. "Transfusion-Transmitted Infectious Disease Prevention at Canadian Blood Services." Canadian Blood Services National Resident Rotation. Based out of University of Toronto. With Carmen Charlton, November 30, 2023.
11. "Monitoring Infectious Diseases Safety." Canadian Blood Services Safety, Research and Ethics Committee (SREC) meeting. With Isra Levy, Chantale Pambrun and Carmen Charlton, November 30, 2023
12. "Malaria NAT primer." Canadian Blood Services Safety, Research and Ethics Committee (SREC) meeting. With Carmen Charlton, November 30, 2023
13. "Transfusion-Transmitted Infectious Disease Prevention at Canadian Blood Services." McMaster University Undergrad students. HHSCI 3DR3. December 4, 2023
14. Author comments for review of "Tordon B, Drews SJ, Flahr F, Bennett K, Gaziano T, Anderson D, Nahiriak S, Gerges H, Tyrrell GJ, Mah J, Ndao M, Bigham M, Seftel M. Canadian Blood Services traceback investigation of a suspected case of transfusion-transmitted malaria. Transfusion. 2023 Oct;63(10):2001-2006. doi: 10.1111/trf.17549. Epub 2023 Sep 16. PMID: 37715564." America's Blood Centers, SMT Journal Club, December 15, 2023
15. "Transfusion-transmitted infectious disease prevention at Canadian Blood Services", 2023-24 Pathology Grand Rounds, Dalhousie University, 4 January 2024
16. "Transfusion-Transmitted Infectious Disease Prevention at Canadian Blood Services". With Mark Bigham and Carmen Charlton, January 29, 2024
17. "Tickborne infections surveillance." Charlton, C and Drews, S.J. Canadian Blood Services Scientific Research and Advisory Committee (SRAC), International advisory committee. January 31, 2024
18. "Intracranial Hemorrhage; blood donors and recipients" Drews, S.J. and W. Sheffield.

Canadian Blood Services Scientific Research and Advisory Committee (SRAC), International advisory committee. January 31, 2024

Abstracts:

1. "Donor re-entry following deferral for false reactive human immunodeficiency virus, hepatitis B virus and hepatitis C virus markers". (P-BB-29). Drews, S.J., Bigham, M., Uzicanin, S., Huppe, P., MacDonald, K., O'Brien, S.F. AABB, Nashville, TN, USA, October 14-17, 2023
2. "Increased unconfirmed peak syphilis repeat reactive rates in Canadian blood donors in the COVID-19 pandemic period compared to the pre-pandemic period". Drews, S.J., Bigham M., Hawes, G., Gill, B., Huppe, P., Ng, M., Uzicanin, S., O'Brien. S.F. (P-BB-50). AABB, Nashville, TN, USA, October 14-17, 2023

Dr. Janet Elliott

Conference presentations:

1. J. A. W. Elliott (Invited Speaker), H. Binyaminov, and N. Shardt, "Two semi-empirical equations of state from the JAW Elliott group", Canadian Chemical Engineering Conference, Calgary, AB, Canada, October 29 – November 1, 2023.
2. H. Afsaneh (Speaker), J. A. W. Elliott, "Charge–dipole interaction as a long-range attractive force between a water drop and a polyzwitterionic-coated substrate", Canadian Chemical Engineering Conference, Calgary, AB, Canada, October 29 – November 1, 2023.
3. H. Binyaminov (Speaker), H. Sun, J. A. W. Elliott, "The multisolute osmotic virial equation and its application to ternary electrolyte mixtures", Canadian Chemical Engineering Conference, Calgary, AB, Canada, October 29 – November 1, 2023.
4. S. Rezvani (Speaker), J. A.W. Elliott, "Stability analysis of a multicomponent bubble in contact with a liquid-gas solution", Canadian Chemical Engineering Conference, Calgary, AB, Canada, October 29 – November 1, 2023.
5. F. Yadegari (Speaker), Laura A. Gabler Pizarro, Leah Marquez-Curtis, J. A. W. Elliott, "Temperature dependence of membrane permeability parameters for five cell types using non-ideal thermodynamic assumptions to mathematically model cryopreservation protocols", Canadian Chemical Engineering Conference, Calgary, AB, Canada, October 29 – November 1, 2023.
6. E. Ashrafi (Speaker), L. E. McGann, M. Radisic, J. A. W. Elliott, "Comprehensive cryopreservation study of H9c2 cells in suspension", Canadian Chemical Engineering Conference, Calgary, AB, Canada, October 29 – November 1, 2023.
7. J. H. Grenke (Speaker), J. A. W. Elliott, "New correlations for thermodynamic properties of liquid water and hexagonal ice under low-temperatures and high-pressures", Canadian Chemical Engineering Conference, Calgary, AB, Canada, October 29 – November 1, 2023.

Dr. Anne Halpin

Abstract:

1. Anne Halpin, Cathi Murphey, Caishun Li, Bruce Motyka, Tess Ellis, Jean Pearcey, Adam Bingaman, Lori J. West. Title: "Hemagglutination assay limits access to ABO-A2 kidney Transplantation". Oral abstract presented American Society for Histocompatibility and Immunogenetics (ASHI), Annual Meeting, San Antonio, TX, USA, October 2023, Published: Human Immunology, Volume 84, Supplement, 2023

Invited Talks:

1. Canadian Society of Transplantation, Fellows Symposium, Winnipeg, MB, Canada (virtual

presentation) Title: "ABO-incompatible Transplantation: What do we know?"

2. Laboratory Medicine and Pathology Rounds, University of Alberta, January 11, 2024, "Eligibility for ABO-A2 ABO-incompatible transplants: current state of affairs and new horizons"

Dr. Ruwandi Kariyawasam:

1. Kariyawasam R, MacDonald C, Stokes W, Isaac A, Van der Walt P, Zhou H, Pillai D, Vaughan S, Kowalewska-Grochowska K, Kanji JN. "Clinical and Diagnostic Features of Imported Cases of Malaria to Alberta, Canada: A 4-Year Retrospective Study (2014-2018)". American Society of Tropical Medicine & Hygiene (ASTMH) 72nd Annual Meeting. Poster presentation on October 19, 2023. Chicago, Illinois, USA

Dr. William Stokes:

1. Kariyawasam R, MacDonald CA, Stokes W, Isaac A, Van der Walt P, Zhou HY, Pillai D, Vaughan S, Kowalewska-Grochowska K, Kanji JN. "Clinical and Diagnostic Features of Imported Cases of Malaria to Alberta, Canada: a 4-year Retrospective Study (2014-2018)". American Society of Tropical Medicine & Hygiene Oct 2023 Annual Meeting, Chicago, U.S, poster presentation.

Recent Publications

Dr. Jason Acker:

1. Hoffman, W.R., *Patel, P., Aden, J., Willis, A., Acker, J.P., Bjerke, E., Miranda, E., Luster, J., and Tvaryanas, "A. Multinational comparison study of aircraft pilot healthcare avoidance behavior". *Occupational Medicine* 73 (7): 434-438 (2023)
2. *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* 18 (11): e0288308 (2023)
3. Kaufman, R.M., Marks, D., Flamand, Y., Acker, J.P., Brown, B., Olafson, C., Marschner, S., Pandey, S., Papari, M., Petrasko, T., 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* 63 (11): 2072-2082 (2023)

Published Abstracts:

1. Olafson, C., Turner, T.R., *Mykhailova, O., and Acker, J.P. "Validation of a small-scale red blood cell cryopreservation method". *Transfusion* 63 (S5): 144A-145A (2023).
2. Yazdanbakhsh, M., Eid, H., Rabi, J. and Acker, J.P. Young "RBC subpopulations reduce the hemoglobin-oxygen affinity of cord blood from preterm neonates". *Transfusion* 63 (S5): 161A-162A (2023).
3. Li, W., Liu, Y., Lucier, K., Heddle, N. and Acker, J.P. "Effect of donor and recipient characteristics on hemoglobin increments in intensive care unit patients receiving red blood cell transfusion". *Transfusion* 63 (S5): 274A (2023).
4. Brandon-Coatham, M., Olafson, C., Kurach, J., Turner, T.R., Clarke, G. and Acker, J.P. "Single transient warming events do not affect the quality of cryopreserved red cell concentrates". *Transfusion* 63 (S5): 141A (2023).
5. Kanas, T., Bean, S., Thomas, K., Dzieciatkowska, M., Yokoyama, A., Cognasse, F., Cloutier, M. and Acker J.P. "Age and sex differences in the red blood cell proteome highlight how donor factors may impact blood product quality: The BEST Collaborative Study". *Transfusion* 63 (S5):

59A – 60A (2023).

6. Kurach, J., Olafson, C., Brandon-Coatham, M., Turner, T.R., Clarke, G. and Acker, J.P. “Exposure of cryopreserved red cell concentrates to real-world transient warming events has a negligible impact on quality”. *Transfusion* 63 (S5): 116A – 117A (2023).

7. *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).

8. 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).

Dr. Ben Adam

Peer-reviewed papers:

1. Mengel M, Adam BA. “Emerging Phenotypes in Kidney Transplant Rejection”. *Curr Opin Organ Transplant*. 2023 Dec 1. doi: 10.1097/MOT.0000000000001130. Online ahead of print. PMID: 38032262

2. Naesens M, Roufosse C, Haas M, Lefaucheur C, Mannon RB, Adam BA, Aubert O, Böhmig GA, Callemeyn J, Clahsen-van Groningen M, Cornell LD, Demetris AJ, Drachenberg CB, Einecke G, Fogo AB, Gibson IW, Halloran P, Hidalgo L, Horsfield C, Huang E, Kikić Z, Kozakowski N, Nankivell B, Rabant M, Randhawa P, Riella LV, Sapir-Pichhadze R, Schinstock C, Solez K, Tambur AR, Thauinat O, Wiebe C, Zielinski D, Colvin R, Loupy A, Mengel M. “The Banff 2022 Kidney Meeting Report: Re-Appraisal of Microvascular Inflammation and the Role of Biopsy-Based Transcript Diagnostics”. *Am J Transplant*. 2023 Oct 28:S1600-6135(23)00818-3. doi: 10.1016/j.ajt.2023.10.016. Online ahead of print. PMID: 38032300.

3. Pavlisko EN, Adam BA, Berry GJ, Calabrese F, Cortes-Santiago N, Glass CH, Goddard M, Greenland JR, Kreisel D, Levine DJ, Martinu T, Verleden SE, Weigt SS, Roux A. “The 2022 Banff Meeting Lung Report”. *Am J Transplant*. 2023 Nov 4:S1600-6135(23)00824-9. doi: 10.1016/j.ajt.2023.10.022. Online ahead of print. PMID: 37931751

Dr. Rebecca Brassington

Peer-reviewed Paper:

1. Ghimire A, Brassington R, Solez K, Bello, A, “Chronic thrombotic microangiopathy presenting as acute nephrotic syndrome in a patient with renal cancer receiving tyrosine kinase inhibitor therapy”, *BMJ Case Reports*, 2024, vol. 17, pp. 1-5

Dr. Matthew Croxen:

1. Pipaliya SV, Dacks JB, Croxen MA. “Genomic survey maps differences in the molecular complement of vesicle formation machinery between *Giardia intestinalis* assemblages”. *PLoS Negl Trop Dis*. 2023 Dec 18;17(12):e0011837. doi: 10.1371/journal.pntd.0011837. PMID: 38109380; PMCID: PMC10758263

2. Long R, Croxen M, Lee R, Doroshenko A, Lau A, Asadi L, Heffernan C, Paulsen C, Egedahl ML, Lloyd C, Li V, Tyrrell G. “The Association between phylogenetic lineage and the subclinical phenotype of pulmonary tuberculosis: A retrospective 2-cohort study”. *J Infect*. 2023 Dec 15:S0163-4453(23)00592-3. doi: 10.1016/j.jinf.2023.12.006. Epub ahead of print. PMID: 38104727

3. Williams AN, Ma A, Croxen MA, Demczuk WHB, Martin I, Tyrrell GJ. “Genomic analysis of

Streptococcus pneumoniae serogroup 20 isolates in Alberta, Canada from 1993-2019". *Microb Genom.* 2023 Nov;9(11):001141. doi: 10.1099/mgen.0.001141. PMID: 38015202; PMCID: PMC10711305

4. Zelyas N, Pabbaraju K, Croxen MA, Lynch T, McCullough E, Murphy SA, Shokoples S, Wong A, Kanji JN, Tipples G. "Tracking SARS-CoV-2 Omicron lineages using real-time reverse transcriptase PCR assays and prospective comparison with genome sequencing". *Sci Rep.* 2023 Oct 14;13(1):17478. doi: 10.1038/s41598-023-44796-y. PMID: 37838804; PMCID: PMC10576821

5. Mataseje LF, Pitout J, Croxen M, Mulvey MR, Dingle TC. "Three separate acquisitions of bla_{NDM-1} in three different bacterial species from a single patient". *Eur J Clin Microbiol Infect Dis.* 2023 Oct;42(10):1275-1280. doi: 10.1007/s10096-023-04651-4. PMID: 37688673; PMCID: PMC10511597

Dr. Sumit Das

Peer-Reviewed Publications:

1. Das S. "Alzheimer's Type Neuropathological Changes in a Patient with Depression and Anxiety: A Case Report and Literature Review of Neuropathological Correlates of Neuropsychiatric Symptoms in Alzheimer's Disease." *Case Rep Neurol Med.* 2023 Oct 11;2023:5581288. doi: 10.1155/2023/5581288. eCollection 2023
2. Phillips R, Das S. "Desmoplastic small round cell tumor of the pleura with brain metastasis: A case report and literature review". *J Case Rep Images Pathol* 2023;9(2):5–13.

Dr. Steven Drews

Peer-Reviewed Publications:

1. Asamoah-Boaheng, M., Grunau, B., Haig, S., Karim, M.E., Kirkham, T., Lavoie, P.M., Sediqi, S., Drews, S.J., O'Brien, S.F., Barakauskas, V., Marquez, A.C., Jassem, A., Goldfarb, D.M. "Eleven-month SARS-CoV-2 binding antibody decay, and associated factors, among mRNA vaccinees: implications for booster vaccination". *Access Microbiol.* 2023 Nov 28;5(11):000678.v3. doi: 10.1099/acmi.0.000678.v3. PMID: 38074111; PMCID: PMC10702380
2. Osiowy, C., Giles, E., Lowe, C.F., Matic, N., Murphy, D.G., Uzicanin, S., Drews, S.J., O'Brien, S.F. "Hepatitis B virus genotype surveillance in Canadian blood donors and a referred patient population, 2016-2021". *Vox Sang.* 2023 Dec 23. doi: 10.1111/vox.13568. Epub ahead of print. PMID: 38141175
3. O'Brien, S.F., Ehsani-Moghaddam, B., Goldman, M., Drews, S.J. "Prevalence of Hepatitis B in Canadian First-Time Blood Donors: Association with Social Determinants of Health". *Viruses.* 2024 Jan 13;16(1):117. doi: 10.3390/v16010117. PMID: 38257817
4. Lewin, A., Goldman, M., Busch, M.P., Davison, K., van de Laar, T., Tiberghien, P., Shinar, E., O'Brien, S.F., Lambert, G., Field, S., Hervig, T., Tan, D.H.S., Custer, B., Drews, S.J., Lanteri, M.C., Klochkov, D., Widmer, E., Domingue, M.P., Renaud, C., Germain, M. "End of selection criteria based on sexual orientation: An international symposium on alternatives to donation deferral". *Vox Sang.* 2024 Jan 25. doi: 10.1111/vox.13587. Epub ahead of print. PMID: 38270352

Dr. Janet Elliott

Peer-reviewed journal papers:

1. H. Binyaminov, H. Sun, J. A. W. Elliott, "Predicting freezing points of ternary salt solutions with the multisolute osmotic virial equation", *Journal of Chemical Physics* 159 Article No.: 244502

(2023).

2. H. Binyaminov, J. A. W. Elliott, "Multicomponent solutions: Combining rules for multisolute osmotic virial coefficients", *Journal of Chemical Physics* 159, Article No.: 164116 (2023).
3. S. E. Tapia Lishner, L. A. Marquez-Curtis, J. A. W. Elliott, "Permeation kinetics of dimethyl sulfoxide in porcine corneal discs", *Cryobiology* 113, Article No.: 104566 (2023).
4. S. Saber, N. Narayanaswamy, C. A. Ward, J. A. W. Elliott, "Experimental examination of the phase transition of water on silica at 298 K", *Journal of Chemical Physics* 158, Article No.: 204712 (2023).
5. H. Binyaminov, J. A. W. Elliott, "Quantifying the effects of dissolved nitrogen and carbon dioxide on drying pressure of hydrophobic nanopores", *Journal of Chemical Physics* 158, Article No.: 204710 (2023).
6. M. A. Kazemi, S. H. Zandavi, M. Zargartalebi, D. Sinton, J. A. W. Elliott, "Analysis of the evaporation coefficients of water, heavy water, and methanol in a high vacuum environment", *International Journal of Heat and Mass Transfer* 204, Art.No.: 123833 (2023)

Dr. Anne Halpin:

1. Carrigan I, Mathur S, Bourgeois N, Dieudé M, Fantus D, Gongal P, Halpin A, Hirji A, Mansell H, Piotrowski C, Sapir-Pichhadze R, Vinson AJ. "Updates in Kidney Transplantation From the 2022 Banff-Canadian Society of Transplantation Joint Meeting: Conference Report". *Can J Kidney Health Dis.* 2023 Nov 13
2. Shareen Forbes, Anne Halpin, Anna Lam, Don Grynock, Richard Parker, Luis Hidalgo, David Bigam, Blaire Anderson, Khaled Dajani, Tatsuya Kin, Doug O'Gorman, Peter A. Senior, Patricia Campbell, and A. M. James Shapiro. "Islet transplantation outcomes in type 1 diabetes and transplantation of HLA-DQ8/DR4: results of a single-centre retrospective cohort in Canada". *eClinical Medicine.* 2024 January, Volume 67
3. Madeleine Townsend, Tara Pidborochynski, Ryan S. Cantor, Michael Khoury, Patricia Campbell, Anne Halpin, Simon Urschel, Daniel Kim, Susan Nahirniak, Lori J. West, Holger Buchholz, Jennifer Conway. "Prospective examination of HLA sensitization after VAD implantation in children and adults". *Transplant Immunology.* 2023 Jul 5, Published online ahead of print, 2023 Oct;80:101892

Dr. Victoria Higgins

Peer-reviewed publications:

1. Barakauskas VE, Bohn MK, Branch E, Boutin A, Albert A, Luke S, Dittrick M, Higgins V, Asgari S, Adeli K, Vallance H, Jung B, Dooley K, Dahlgren L, Chan W. "Mining the gap: Deriving pregnancy reference intervals for hematology parameters using clinical datasets". *Clin Chem.* 2023 Dec;69(12):1374-1384
2. Higgins V, Garcia L, Gifford JL, Volodko N, Beriault DR, Parker ML, Estey MP, Proctor DT, Ismail OZ. "Validating the NIH LDL-C Equation for Provincial Implementation in Alberta". *Clin Biochem.* 2023 Nov;121-122
3. Stukas S, Cooper J, Higgins V, Holmes D, Adeli K, Wellington CL. "Pediatric reference intervals for serum neurofilament light and glial fibrillary acidic protein using the Canadian Laboratory Initiative on Pediatric Reference Intervals (CALIPER) cohort". *Clin Chem Lab Med.* 2023 Oct. Online ahead of print.
4. Miller J, Higgins V, Ren A, Logan S, Yip PM, Fu L. "Advances in preeclampsia testing". *Adv Clin Chem.* 2023;117:103-161

Dr. Ruwandi Kariyawasam

Abstract:

1. Kariyawasam R, Berendt H, Szkotak A, Hussein A, King A, Kowalewska-Grochowska K, Ndao M, Stokes W, Kanji JN. "Malaria in Canada? – A case of Babesia microti infection in a returning traveler from Nova Scotia". AMMI-CACMID 2024.

Peer-reviewed Publication:

1. Kariyawasam R, Lau R, Valencia BM, Llanos-Cuentas A, Boggild AK. "Novel detection of Leishmania RNA virus-1 (LRV-1) in clinical isolates of Leishmania Viannia panamensis". Parasitology 2023; 1-22. [Novel detection of Leishmania RNA virus-1 \(LRV-1\) in clinical isolates of Leishmania Viannia panamensis - PubMed \(nih.gov\)](#)

Dr. Michael Mengel

Peer-reviewed publications:

1. Giarraputo A, Coutance G, Aubert O, Fedrigo M, Mezine F, Zielinski D, Mengel M, Bruneval P, Duong van Huyen JP, Angelini A, Loupy A. "Banff Human Organ Transplant Consensus Gene Panel for the Detection of Antibody Mediated Rejection in Heart Allograft Biopsies". Transpl Int. 2023 Sep 4;36:11710
2. Roufosse C, Naesens M, Haas M, Lefaucheur C, Mannon RB, Afrouzian M, Alachkar N, Aubert O, Bagnasco SM, Batal I, Bellamy COC, Broecker V, Budde K, Clahsen-Van Groningen M, Coley SM, Cornell LD, Dadhania D, Demetris AJ, Einecke G, Farris AB, Fogo AB, Friedewald J, Gibson IW, Horsfield C, Huang E, Husain SA, Jackson AM, Kers J, Kikić Ž, Klein A, Kozakowski N, Liapi H, Mangiola M, Montgomery RA, Nankivell B, Neil DAH, Nickerson P, Rabant M, Randhawa P, Riella LV, Rosales I, Royal V, Sapir-Pichhadze R, Sarder P, Sarwal M, Schinstock C, Stegall M, Solez K, van der Laak J, Wiebe C, Colvin RB, Loupy A, Mengel M. "The Banff 2022 Kidney Meeting Work Plan: Data-driven Refinement of the Banff Classification for Renal Allografts". Am J Transplant. 2023, in press
3. Naesens M, Roufosse C, Haas M, Lefaucheur C, Mannon RB, Adam BA, Aubert O, Böhmig GA, Callemeyn J, Clahsen-van Groningen M, Cornell LD, Demetris AJ, Drachenberg CB, Einecke G, Fogo AB, Gibson IW, Halloran P, Hidalgo LG, Horsfield C, Huang E, Kikić Ž, Kozakowski N, Nankivell B, Rabant M, Randhawa P, Riella LV, Sapir-Pichhadze R, Schinstock C, Solez K, Tambur AR, Thauinat O, Wiebe C, Zielinski D, Colvin R, Loupy A, Mengel M. "The Banff 2022 Kidney Meeting Report: Reappraisal of microvascular inflammation and the role of biopsy-based transcript diagnostics". Am J Transplant. 2023, in press
4. Yoo D, Divard G, Raynaud M, Cohen A, Mone TD, Rosenthal JT, Bentall AJ, Stegall MD, Naesens M, Zhang H, Wang C, Gueguen J, Kamar N, Bouquegneau A, Batal I, Coley SM, Gill JS, Oppenheimer F, De Sousa-Amorim E, Kuypers DRJ, Durrbach A, Seron D, Rabant M, Van Huyen JD, Campbell P, Shojai S, Mengel M, Bestard O, Basic-Jukic N, Jurić I, Boor P, Cornell LD, Alexander MP, Toby Coates P, Legendre C, Reese PP, Lefaucheur C, Aubert O, Loupy A. "A Machine Learning-Driven Virtual Biopsy System For Kidney Transplant Patients." Nat Commun. 2024 Jan 16;15(1):554.
5. Mengel M, Adam BA. "Emerging phenotypes in kidney transplant rejection". Curr Opin Organ Transplant. 2023, in press

Dr. Susan Nahirniak

Peer-reviewed Publications:

1. Blais-Normandin I, Rymer T, Feenstra S, Burry A, Colavecchia C, Duncan J, Farrell M, Greene

A, Gupta A, Huynh Q, Lawrence R, Lehto P, Lett R, Lin Y, Lyon B, McCarthy J, Nahirniak S, Nolan B, Peddle M, Prokopchuk-Gauk O, Sham L, Trojanowski J, Shih AW. "Current state of technical transfusion medicine practice for out-of-hospital blood transfusion in Canada". Vox Sang. 2023 Dec;118(12):1086-1094. doi: 10.1111/vox.13542 PMID: 37794849

2. Tordon B, Drews SJ, Flahr F, Bennett K, Gaziano T, Anderson D, Nahirniak S, Gerges H, Tyrrell GJ, Mah J, Ndao M, Bigham M, Seftel M. "Canadian Blood Services traceback investigation of a suspected case of transfusion transmitted malaria". Transfusion. 2023 Oct;63(10):2001-2006. doi: 10.1111/trf.17549. PMID: 37715564

3. Townsend M, Pidborochynski T, Cantor RS, Khoury M, Campbell P, Halpin A, Urschel S, Kim D, Nahirniak S, West LJ, Buchholz H, Conway J. "Prospective examination of HLA sensitization after VAD implantation in children and adults". Transpl Immunol. 2023 Oct;80:101892. doi: 10.1016/j.trim.2023.101892

Dr. Banu Sis

Peer-reviewed publication:

1. Banu Sis. "Phenotypes and Prognostic Subgroups Derived by the RejectClass Clustering Algorithm Are Not Fully Reproducible in an Independent Multicenter Study". Transplantation. 2024 Jan 10. PMID: 38196110

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