

Funding - Department of Laboratory Medicine & Pathology (July 1, 2021 to June 30, 2022)

Person	Title	Funding Source	Research Role	Annual Report Scope	Date From	Date To	Funding Status	Funding Amount Attributed
van Landeghem, Frank	A multicentre, randomized controlled trial of pre-operative versus post-operative stereotactic radiosurgery for patients with surgically resectable brain metastases	Other	Co-investigator	International	2020-01	2025-01	New - successful	\$9,999.75
Li, Xing-Fang	Analytical and Environmental Toxicology (CRC TIER1 232168 Li) 3.0	Canada Research Chairs	Principal investigator	National	2018-10	2025-09	Awarded	\$1,190,000.00
Le, Xiao-Chun	Analytical Techniques, Exposure Assessment, and Environmental Health (AHW 010837 Le) 3.0	AB Health	Principal investigator	Provincial	2020-04	2025-03	Awarded	\$1,000,000.00
Charlton, Carmen Lynn	Antenatal COVID-19 Seroprevalence Study (UBC F21-03765 Charlton) 3.0	University of British Columbia	Principal investigator	National	2021-10	2024-04	Awarded	\$634,000.00
Tyrell, Gregory John	Antimicrobial resistance-One Health Consortium	Other	Co-principal investigator	Local - university	2019-02	2023-12	New - successful	\$185,500.00
Le, Xiao-Chun	Arsenic and the Human Genome: Susceptibility and Response to Exposure (UCHIC Le) 3.0	University of Chicago	Principal investigator	International	2018-11	2021-12	Awarded	\$77,709.00
Li, Xing-Fang	Bioanalytical development and applications to drinking water safety (NSERC RGPAS-2017-507842 Li)	Natural Sciences and Engineering Research Council of Canada (NSERC)	Principal investigator	National	2021-04	2025-03	New - successful	\$848,785.56
Li, Xing-Fang	Bioanalytical development and applications to drinking water safety (NSERC RGPIN-2017-05857 Li) 3.0	NSERC	Principal investigator	National	2016-04	2026-03	Awarded	\$530,000.00
Li, Xing-Fang	Characterization of undesirable water-soluble organics in source and drinking water using advanced analytical technology (AB Innovat WIP G2019000356/AI) 3.0	AB Innovates	Principal investigator	Provincial	2020-01	2023-06	Awarded	\$680,000.00
Le, Xiao-Chun	Chemical Contaminants in Traditional Foods from Fort McKay and Fort Chipewyan: Before and after the wildfires (CIHR OGHEAW 151030 Le) 3.0	Canadian Institutes of Health Research	Principal investigator	National	2016-11	2023-03	Awarded	\$365,000.00

Chui, Linda Wai-Ling	Comparison of PCR and Enzyme Immune assays for the detection of Shiga Toxin-producing Escherichia coli (TECHLAB Chui) 3.0	TECHLAB, Inc.	Principal investigator	Corporate/industry	2020-06	2023-12	Awarded	\$38,775.00
Zhang, Hongquan	Construction of deoxyribonucleic acid motors enabling single-molecule detection (NSERC RGPIN-2019-06363 Zhang) 3.0	NSERC	Principal investigator	National	2018-04	2025-03	Awarded	\$180,000.00
Thiesen, Aducio Leonel	Contribution of the immune system and bacteria in children with inflammatory bowel disease	Other	Other	Local - university	2020-08	2022-07	New - successful	\$60,000.00
Acker, Jason Paul	Deep Supercooling of Red Blood Cells: Towards Practical Long Term Storage (MGH 1R01HL145031-01A1 Acker) 3.0	Massachusetts General Hospital	Principal investigator	International	2020-04	2022-03	Awarded	\$428,295.00
Pang, Xiaoli Lilly	Detection and quantitation of SARS-CoV-2 in wastewater to conduct surveillance on burden of community infection, identify outbreaks and support public health decision-making on control measures for prevention COVID-19 transmission (CIHR COVID19MAY 172701 Pang) 3.0	Canadian Institutes of Health Research	Principal investigator	Provincial	2020-05	2023-03	Awarded	\$487,859.00
Tsui, Albert King-Yeung	Developing rapid chest pain protocol using next generation high sensitivity troponin assay	Other	Co-principal investigator	Local - city	2019-09	2023-08	New - successful	\$115,962.76
Acker, Jason Paul	Development of a Porcine Equivalent RCC Unit for Translatable Ex Vivo Organ Perfusion Research (CBS IG2020-JA Acker) 3.0	Canadian Blood Services	Principal investigator	National	2020-11	2022-10	Awarded	\$121,834.00
Chui, Linda Wai-Ling	Development of a rapid typing assay for tracking C. difficile infection at the University of Alberta Hospital (UHF TKFC Chui) 3.0	University Hospital Foundation	Principal investigator	Alberta Health Services (AHS)	2018-09	2021-08	Awarded	\$24,967.79
Chui, Linda Wai-Ling	Development of chemical-free sanitizing antimicrobial surfaces based on microfabrication technology for prevention of hospital acquired infections	Other	Other	Local - university	2020-11	2022-05	New - successful	\$10,000.00
Charlton, Carmen Lynn	Early warning and rapid public health response to prevent COVID-19 outbreaks in long-term care facilities (LTCF) by monitoring the presence and levels of SARS-CoV-2 RNA in LTCF site-specific sewage samples (COVID19ITF 2021-HQ-000133 Pang) 3.0	COVID-19 Immunity Task Force	Co-principal investigator	National	2020-11	2023-03	Awarded	\$38,000.00
Acker, Jason Paul	Enabling liver cryopreservation by controlling ice recrystallization with small molecule inhibitors (CIHR PS 159847 Acker) 3.0	Canadian Institutes of Health Research	Principal investigator	National	2018-10	2022-03	Awarded	\$100,000.00
Acker, Jason Paul	Enabling liver cryopreservation by controlling ice recrystallization with small molecule inhibitors (CIHR PS 175283 Acker) 3.0	Canadian Institutes of Health Research	Principal investigator	International	2021-04	2025-03	Awarded	\$300,606.00

Acker, Jason Paul	Enabling the cryopreservation of embryos from aquatic species using ice recrystallization inhibitors (NSERC RGPIN-2020-04924 Acker) 3.0	NSERC	Principal investigator	National	2020-04	2026-03	Awarded	\$165,000.00
Acker, Jason Paul	Evaluating the performance and readiness to adopt a non-invasive test of fetal blood type (UOFAB WCHRICRISP 2989 Acker) 3.0	UNIVERSITY OF ALBERTA	Principal investigator	Provincial	2020-05	2023-04	Awarded	\$20,000.00
Acker, Jason Paul	Evaluating the role of donor characteristics and blood component manufacturing on the quality of red cell concentrates (CBS IG2018-JA Acker) 3.0	Canadian Blood Services	Principal investigator	National	2018-10	2022-09	Awarded	\$263,522.00
Acker, Jason Paul	Evaluating Unintentional Warming of Glycerolized Red Cell Concentrates (CBS BEAP202001-JA) 3.0	Canadian Blood Services	Principal investigator	National	2020-03	2023-03	Awarded	\$25,000.00
Izevbaye, Iyare	Evaluation of a Molecular Classification of Thyroid Nodules with Indeterminate Cytology	Private foundation	Principal investigator	Local - city	2019-08	2021-08	New - successful	\$80,000.00
Dingle, Tanis	Evaluation of isavuconazole gradient strips for antifungal susceptibility testing of pathogenic fungi.	Other	Principal investigator	Local - university	2019-11		New - successful	\$7,500.00
Le, Xiao-Chun	FOMD Contribution - NSERC CREATE for Research in Environmental, Analytical Chemistry and Toxicology (REACT) (UOFAB FOMD NSERC CREATE) 3.0	UNIVERSITY OF ALBERTA	Principal investigator	Local - university	2014-04	2023-12	Awarded	\$30,000.00
Pang, Xiaoli Lilly	Genomic testing of wastewater to promote public health and safeguard economic performance	Other	Co-principal investigator	Provincial	2022-09	2025-08	New - successful	\$300,000.00
Croxen, Matthew A	Identification of etiological agent(s) in undiagnosed respiratory infections and microbial encephalitis (UOFAB UHFMR C Croxen) 3.0	UNIVERSITY OF ALBERTA	Principal investigator	Local - university	2020-01	2021-12	Awarded	\$35,000.00
Charlton, Carmen Lynn	Identification of etiological agents in undiagnosed respiratory infections and microbial encephalitis	Private foundation	Co-investigator	Provincial	2019-12	2021-12	New - successful	\$10,000.00
Dijke, Ilona Esmeralda	Immunogenicity of Therapeutic Allogeneic Regulatory T Cells Derived from Human Thymus (UOFAB UHFMR C Dijke) 3.0	UNIVERSITY OF ALBERTA	Principal investigator	Local - faculty	2020-01	2022-05	Awarded	\$35,000.00
Charlton, Carmen Lynn	Improving diagnosis and linkage to care for patients infected with Hepatitis C in the prenatal population of Alberta (MSI 901 Charlton) 3.0	MSI Foundation	Principal investigator	Provincial	2019-09	2022-08	Awarded	\$70,210.00
Charlton, Carmen Lynn	Improving the diagnosis and linkage to care for pregnant women with hepatitis C in Alberta (UOFAB WCHRIGS 3439 Thompson/Ch) 3.0	UNIVERSITY OF ALBERTA	Principal investigator	International	2021-09	2023-08	Awarded	\$36,000.00

Charlton, Carmen Lynn	Improving the diagnosis and linkage to care of chlamydia and gonorrhea infection in prenatal women and their infants in Edmonton Alberta (UOFAB WCHRIIG 3133 Charlton) 3.0	UNIVERSITY OF ALBERTA	Principal investigator	International	2021-01	2022-12	Awarded	\$60,000.00
Acker, Jason Paul	Into the Unknown: Defining the optimal cryopreservation conditions for therapeutic thymic regulatory T Cells	Other	Co-investigator	National	2020-08	2022-08	New - successful	\$10,000.00
Dijke, Ilona Esmeralda	Into the Unknown: Defining the Optimal Cryopreservation Conditions for Therapeutic Thymic Regulatory T Cells (CLF Dijke) 3.0	Canadian Liver Foundation	Principal investigator	National	2020-07	2022-07	Awarded	\$30,000.00
Charlton, Carmen Lynn	Is a third dose of MMRV vaccine beneficial for the adult population in Alberta?	Private foundation	Principal investigator	National	2022-06	2025-06	New - successful	\$132,675.00
Pang, Xiaoli Lilly	Localized node-based collection of wastewater samples for molecular monitoring of public health markers	Other	Co-principal investigator	National	2022-09	2024-08	New - successful	\$135,000.00
Lew, Kristi	Medical Laboratory Science/Somagen collaboration	Other	Co-principal investigator	Local - university	2022-05		New - successful	\$1,500.00
Dingle, Tanis	MIF Antimicrobial Resistance - One Health Consortium	Other	Team grant investigator	Provincial	2019-03		New - successful	\$90,000.00
Leng, Roger	Molecular Basis of RING E3 Ligase Pirh2 and HECT E3 Ligase Itch Interaction. (NSERC RGPIN-2017-06582 Leng) 3.0	NSERC	Principal investigator	National	2017-04	2023-03	Awarded	\$27,999.97
Leng, Roger	Molecular Basis of RING E3 Ligase Pirh2 and HECT E3 Ligase Itch Interaction. (NSERC RGPIN-2017-06582 Leng) 3.0	NSERC	Principal investigator	Other	2017-04	2023-03	Awarded	\$142,500.00
Adam, Benjamin Alexander	Molecular Characterization of Antibody-Mediated Rejection in Formalin-Fixed Paraffin-Embedded Lung Transplant Biopsies (UHF TKFC Adam) 3.0	University Hospital Foundation	Principal investigator	Local - university	2019-09	2021-08	Awarded	\$50,000.00
Adam, Benjamin Alexander	Molecular characterization of microvascular inflammation in early post-transplant renal allograft biopsies	Other	Principal investigator	Local - university	2022-05	2022-08	New - successful	\$6,000.00
Adam, Benjamin Alexander	Molecular Injury and Repair Assessment in Ex Vivo Perfused Solid Organ Transplants (EDT RCP-19-004-SEG Adam) 3.0	AB Jobs, Economy and Innovation	Principal investigator	Provincial	2017-12	2022-03	Awarded	\$60,000.00
Dingle, Tanis	Mycobiome Characterization in Cystic Fibrosis Patients (UOFAB UHFMRD Dingle) 3.0	UNIVERSITY OF ALBERTA	Principal investigator	Local - university	2019-01	2021-12	Awarded	\$34,230.00
Pang, Xiaoli Lilly	Pan-Alberta Framework for Monitoring and Predicting COVID-19 Through Wastewater Testing	Other	Co-principal investigator	Provincial	2022-07	2023-06	New - successful	\$1,720,000.00

Le, Xiao-Chun	Point-of-care diagnostics of COVID-19 using isothermal amplification and CRISPR technology (TIPS NFRFR-2019-00008 Le) 3.0	Tri-agency Inst Programs Secretariat	Principal investigator	National	2020-03	2023-02	Awarded	\$828,046.00
Drews, Steven J	Population-based seroprevalence of prior infection with COVID-19 in Canada: implications for testing, economic revitalization and population health. (CIHR COVID19MAY 172723 Drews) 3.0	Canadian Institutes of Health Research	Principal investigator	National	2020-05	2023-03	Awarded	\$1,005,694.00
Bigras, Gilbert	Predicting biomarkers in invasive breast cancer using a weakly supervised machine learning algorithm based on convolutional neural network (CNN) and Whole Slides Images.	Natural Sciences and Engineering Research Council of Canada (NSERC)	Co-investigator	National	2021-01	2022-12	New - successful	\$63,000.00
Acker, Jason Paul	Preservation of red blood cells by the novel Isochoric Oil-sealing Supercooling System (CBS Zhao/Acker) 3.0	Canadian Blood Services	Principal investigator	National	2022-09	2025-08	Awarded	\$167,600.00
El Hallani, Soufiane	Quality Improvement Project: Customized web-application to automate analysis and database management of molecular pathology testing in a province wide institution (AZ El Hallani) 3.0	AstraZeneca Canada Inc.	Principal investigator	Provincial	2020-09	2021-09	Awarded	\$10,000.00
Croxen, Matthew A	Rapid RNA sequencing of coronavirus for public health surveillance and transmission (AB Innovat G2020000267 Croxen) 3.0	AB Innovates	Principal investigator	National	2020-03	2022-02	Awarded	\$157,608.00
Croxen, Matthew A	Rapid RNA sequencing of coronavirus for public health surveillance and transmission (CIHR COVID-19 170705 Croxen) 3.0	Canadian Institutes of Health Research	Principal investigator	National	2020-03	2023-03	Awarded	\$630,432.00
Drabovich, Andrei	Rational design and standardization of serology diagnostics using immunoaffinity-targeted proteomics assays (AB Innovat 202100452 Drabovich) 3.0	AB Innovates	Principal investigator	Provincial	2020-09	2022-08	Awarded	\$182,098.00
Drabovich, Andrei	Rational design and standardization of serology diagnostics using immunoaffinity-targeted proteomics assays (CIHR COVID19MAY 173207 Drabovi) 3.0	Canadian Institutes of Health Research	Principal investigator	National	2020-09	2023-03	Awarded	\$215,500.00
Zhang, Hongquan	Rsch, Support (50% XC Le), FoMD (50%) Start-up Zhang (UOFAB SF Zhang) 3.0	UNIVERSITY OF ALBERTA	Principal investigator	Other	2012-10	2023-09	Awarded	\$100,000.00
Chui, Linda Wai-Ling	Self-sanitizing, universal antimicrobial surfaces for application in the agriculture/food industry	Other	Co-principal investigator	Local - university	2021-06	2023-05	New - successful	\$263,000.00
Acker, Jason Paul	Sex MATTERS: Sex-Matched Transfusions to Effect Recipient Survival. A Pilot Randomized Controlled Trial	Canadian Institutes of Health Research (CIHR)	Co-investigator	National	2020-10	2022-09	New - successful	\$50,000.00

Le, Xiao-Chun	Special Response Fund for Trainees - Research on environmental health	Natural Sciences and Engineering Research Council of Canada (NSERC)	Principal investigator	National	2022-05	2023-08	New - successful	\$25,000.00
Lai, Raymond Kai Chi	The role of NPM1c in leukemogenesis	Private foundation	Co-principal investigator	Local - university	2021-09	2023-08	New - successful	\$150,000.00
Leng, Roger	The role of Pirh2 in medulloblastoma and potential therapeutic application	Other	Principal investigator	Local - university	2022-09	2023-09	New - successful	\$60,000.00
Acker, Jason Paul	The use of ice recrystallization inhibitors (IRIs) and ex vivo lung perfusion to facilitate lung cryopreservation	Other	Principal investigator	International	2022-09	2024-08	New - successful	\$50,000.00
Acker, Jason Paul	Transfusion and Organ Dysfunction in Pediatric Septic Shock (TROPICS)	Other	Co-investigator	International	2022-06	2027-05	New - successful	\$10,000.00
Charlton, Carmen Lynn	Treating sexually transmitted infections in pregnant women and preventing infection in their babies	Private foundation	Principal investigator	Provincial	2020-12	2021-12	New - successful	\$60,000.00
Le, Xiao-Chun	Ultrasensitive assays for specific DNA damage, mutations, and DNA-protein interaction (NSERC RGPIN-2018-06913 Le) 3.0	NSERC	Principal investigator	National	2017-04	2024-03	Awarded	\$690,000.00
Purdy, Lisa Eileen	Virtu-WIL Using Virtual Simulations to Enhance Healthcare Education	Other	Co-principal investigator	National	2021-07		New - successful	\$43,500.00
Le, Xiao-Chun	VPR Contribution - NSERC CREATE - Research in Environmental, Analytical Chemistry and Toxicology (REACT) (UOFAB VPR NSERC CREATE Le,Xiao-Chun) 3.0	UNIVERSITY OF ALBERTA	Principal investigator	Local - university	2014-04	2023-12	Awarded	\$30,000.00