

Funding - Department of Laboratory Medicine & Pathology (July 1, 2020 to June 30, 2021)

| Person | Title | Funding Source | Research Role | Annual Report Scope | Research Theme | Funding Type | Funding Applied Amount Total | Funding Amount Total | Application Date |
|------------------------|--|---|---------------------------|---------------------|----------------|----------------------------|------------------------------|----------------------|------------------|
| Drews, Steven J | Population-based seroprevalence of prior infection with COVID-19 in Canada: implications for testing, economic revitalization and population health (AB Innovat G2020000360 Drews) 3.0 | AB Innovates | Principal investigator | | | Operating Grant - New | \$50,000.00 | \$50,000.00 | 2020-06 |
| Tyrrell, Gregory John | Developing a safe subunit vaccine for COVID by using convalescent plasma to identify immunogenic epitopes (UOFAB COVIDPRF GTyrrell) 3.0 | UNIVERSITY OF ALBERTA | Principal investigator | | | Operating Grant - New | \$40,000.00 | \$35,000.00 | 2020-06 |
| Drabovich, Andrei | Rational design and standardization of serology diagnostics | Other | Principal investigator | International | Biomedical | Operating | \$183,000.00 | | 2020-07 |
| 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 (AB Innovat G2020000362 Pang) 3.0 | AB Innovates | Principal investigator | | | Operating Grant - New | \$39,489.00 | \$39,489.00 | 2020-07 |
| Pang, Xiaoli Lilly | Can biofilm facilitate COVID-19 virus survival and persistence in sewer system? | Natural Sciences and Engineering Research Council of Canada (NSERC) | Co-investigator | Local - university | Biomedical | Operating | \$50,000.00 | \$50,000.00 | 2020-07 |
| 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 | Clinical | Technical Service Contract | \$10,000.00 | \$10,000.00 | 2020-07 |
| 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 | Biomedical | Operating Grant - New | \$182,098.00 | \$182,098.00 | 2020-07 |
| Deschenes, Jean | Label-Free Multimodal Ultraviolet Microscopy and Machine Learning for Smart Virtual Histopathology | Other | Co-investigator | National | Biomedical | Operating | \$250,000.00 | | 2020-08 |
| Dijke, Ilona Esmeralda | ABO-histocompatibility: 21st-Century ABO Antibody Testing for Kidney Transplantation | Other | Co-investigator | National | Biomedical | Operating | \$25,000.00 | \$25,000.00 | 2020-08 |
| Thiesen, Aducio Leonel | Contribution of the immune system and bacteria in children with inflammatory bowel disease | Other | Other | Local - university | Biomedical | Operating | \$59,524.30 | \$60,000.00 | 2020-08 |
| 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 | Biomedical | Operating Grant - New | \$215,500.00 | \$215,500.00 | 2020-09 |
| Li, Xing-Fang | Characterization of undesirable water-soluble organics in source and drinking water using advance analytical technology (EPCOR Li) 3.0 | EPCOR | Principal investigator | | | Other | \$45,000.00 | \$45,000.00 | 2020-09 |
| Pang, Xiaoli Lilly | Waterborne Pathogen Monitory (AHW 010851 Pang) 3.0 | AB Health | Principal investigator | | | Operating Grant - New | \$300,000.00 | \$150,000.00 | 2020-09 |
| 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 | Biomedical | Operating Grant - New | \$121,834.00 | \$121,834.00 | 2020-10 |
| 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 | | | Operating Grant - New | \$800,000.00 | \$1,089,364.00 | 2020-10 |
| Pang, Xiaoli Lilly | 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 | Principal investigator | | | Operating Grant - New | \$800,000.00 | \$1,089,364.00 | 2020-10 |
| Zelyas, Nathan Julien | 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 | | | Operating Grant - New | \$800,000.00 | \$1,089,364.00 | 2020-10 |
| 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 | Biomedical | Salary | \$63,000.00 | \$63,000.00 | 2020-11 |
| Drabovich, Andrei | Immunoaffinity proteomics for quantification of low-abundance proteoforms | Natural Sciences and Engineering Research Council of Canada (NSERC) | Principal investigator | National | Other | Operating | \$221,665.00 | | 2020-11 |
| Pang, Xiaoli Lilly | Household Transmission Dynamics and Viral Load among Asymptomatic SARS-CoV-2 Infected Children (UCALG 10029048-10000 Pang) 3.0 | University of Calgary | Principal investigator | | | Operating Grant - New | \$61,550.00 | \$61,550.00 | 2020-11 |
| Zhang, Hongquan | Quantitative Detection of Neutralizing Antibodies | Other | Principal investigator | Local - university | Biomedical | Operating | \$20,000.00 | | 2020-11 |

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| Chiu, Brian | The Human explanted heart program (HELP) at the Mazankowski Alberta Heart Institute: A translational bridge for cardiovascular medicine | Canadian Institutes of Health Research (CIHR) | Co-investigator | National | Biomedical | Operating | \$1.00 | \$1.00 | 2020-12 |
| 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 | | | Operating Grant - New | \$60,000.00 | | 2021-01 |
| Dijke, Ilona Esmeralda | Allogeneic thymus-derived Tregs to prevent chronic inflammation in transplantation | Canadian Institutes of Health Research (CIHR) | Co-principal investigator | National | Biomedical | Operating | \$750,000.00 | \$750,000.00 | 2021-01 |
| Halpin, Anne Margaret | ABO-histocompatibility: 21st-Century ABO Antibody Testing for Kidney Transplantation (CST Halpin) 3.0 | Canadian Society of Transplantation | Principal investigator | | | Operating Grant - New | \$25,000.00 | \$25,000.00 | 2021-01 |
| El Hallani, Soufiane | Evaluation and preoperative integration of Next Generation Sequencing in the assessment of pancreaticobiliary cytology specimens for cancer detection and precision diagnostics (UHF TKFC El Hallani) 3.0 | University Hospital Foundation | Principal investigator | | | Operating Grant - New | \$94,089.00 | \$94,089.00 | 2021-02 |
| Haroon Al Rasheed, Mohamed Rizwan | Precision Diagnostics in Prostate Cancer: Targeted Biopsy and Germline Sequencing to Predict Tumor Aggressivity in Men on Active Surveillance (UOFAB PHSA Kinnaird) 3.0 | UNIVERSITY OF ALBERTA | Co-principal investigator | | | Operating Grant - New | \$19,750.00 | \$20,000.00 | 2021-02 |
| Acker, Jason Paul | Evaluating the Role of Donor Characteristics on the Cryopreservation of Red Blood Cells - A Machine Learning Approach (UOFAB AIPF 202102496Rahman/Ack) 3.0 | UNIVERSITY OF ALBERTA | Principal investigator | | | Post-doctoral Fellowship | \$110,000.00 | \$110,000.00 | 2021-03 |
| Mengel, Michael Hartman | A Health Innovation Platform for rapid development, validation, and adoption of diagnostics for emerging pathogens (AB Innovat HIPP 202102135) 3.0 | AB Innovates | Principal investigator | | | Letter of Intent | \$200,000.00 | \$200,000.00 | 2021-03 |
| Pang, Xiaoli Lilly | Rapid and accurate monitoring of SARS-CoV-2 variants emerging and/or circulating in the communities and the long-term care facilities using wastewater-based epidemiology (WBE) through the network (CIHR OGSARVS 175574 Pang) 3.0 | Canadian Institutes of Health Research | Principal investigator | | | Operating Grant - New | \$99,970.00 | \$99,970.00 | 2021-03 |
| Zelyas, Nathan Julien | Rapid and accurate monitoring of SARS-CoV-2 variants emerging and/or circulating in the communities and the long-term care facilities using wastewater-based epidemiology (WBE) through the network (CIHR OGSARVS 175574 Pang) 3.0 | Canadian Institutes of Health Research | Co-principal investigator | | | Operating Grant - New | \$99,970.00 | \$99,970.00 | 2021-03 |
| 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 | | | Study Leave Grant (No Salary) | \$36,000.00 | \$36,000.00 | 2021-03 |
| 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 | Biomedical | Operating Grant - New | \$780,000.00 | \$600,524.00 | 2021-04 |
| El Hallani, Soufiane | Development and validation of molecular and image analysis biomarkers for precision diagnostics and risk stratification of ovarian borderline tumors. | Private foundation | Principal investigator | Local - university | Clinical | Operating | \$60,000.00 | | 2021-04 |
| Lai, Raymond Kai Chi | The role of NPM1c in leukemogenesis | Private foundation | Co-principal investigator | Local - university | Biomedical | Operating | \$150,000.00 | \$150,000.00 | 2021-04 |
| Izevbaye, Iyare | PCR Testing for Measurable Residual Disease (MRD) for Favourable Risk Acute Myeloid Leukemia in Alberta (UHF MEFCIH BRANDWEIN) 3.0 | University Hospital Foundation | Co-principal investigator | | | Operating Grant - New | \$131,000.00 | \$71,000.00 | 2021-04 |
| Halpin, Anne Margaret | Variations on a theme: New approaches to examine SARS-CoV-2 variants and their ABO connections. (CIHR COVIDRGP 177698 West) 3.0 | Canadian Institutes of Health Research | Co-principal investigator | | | Operating Grant - New | \$482,935.00 | \$482,935.00 | 2021-04 |
| Holovati, Jelena Lecak | Virtu-WILL Canada Project | Other | Co-principal investigator | National | Education | Operating | \$40,000.00 | \$40,000.00 | 2021-05 |
| Drabovich, Andrei | Quantitative analysis of SARS-CoV-2 proteins for clinical diagnostics and environmental surveillance | Other | Principal investigator | National | Biomedical | Infrastructure | \$397,000.00 | | 2021-06 |
| Giannakopoulos, Nadia Vicki | Preoperative weight loss in women with obesity and low grade endometrial pathology: a mixed-methods study (UOFAB WCHRICRISP 3267 Pin) 3.0 | UNIVERSITY OF ALBERTA | Co-principal investigator | | | Operating Grant - New | \$18,653.04 | | 2021-06 |
| Lee, Cheng Han | Start-up fund FoMD (UOFAB SF Lee) 3.0 | UNIVERSITY OF ALBERTA | Principal investigator | | | Establishment Grant | \$15,000.00 | \$15,000.00 | 2021-06 |