

External Funding (2024)

April 2024 — March 2025

Principal Investigator (Trainee)	Sponsor	Project Title	Award Type	Sector	Program	Amount Funded
Bernatchez, Pascal	Canada Foundation for Innovation	CFI Infrastructure Operating Fund	Grant	Government	Infrastructure Operating Fund	\$2,500
Bernatchez, Pascal	MITACS Inc.	Reverse engineering the SARS-CoV2 virus variants for the rational design of anti-COVID therapeutics	Grant	Non-Profit	Accelerate	\$30,000
Bernatchez, Pascal	NSERC	Natural and accelerated aging of the e-NOS-caveolin-1 system	Grant	Government	Discovery Grants Program - Individual	\$28,000
Bernatchez, Pascal	Genetic Aortic Disorders Association	Targeting the B-arrestin2 pathway to improve Marfan patient care.	Grant	Non-Profit	Research Grant	\$50,000
Bernatchez, Pascal	Jain Foundation	Lipids in Dysferlinopathies more therapeutic options, better models	Contract	Non-Profit		\$189,813
Boyd, John	Genova Biotech	A Randomized, Double-Blind, Placebo-Controlled, Phase III Study to Evaluate the Safety and Efficacy of Aerosolized Novaferon + SOC vs. Placebo + SOC in Hospitalized Adult Patients with Moderate to Severe COVID-19	Clinical Trial	Industry		\$2,025
Boyd, John	Rostrum Medical Innovations Inc.	Hemodynamic Assessment in Patients Presenting with shock in the ICU	Clinical Trial	Industry		\$48,125
Boyd, John	Novartis Pharmaceuticals Canada Inc.	A multicenter, randomized, double-blind, placebo-controlled, four-arm, parallel-group, dose-finding phase 2b study to investigate the safety and efficacy of TIN816 via a single intravenous infusion in the treatment of participants with sepsis	Clinical Trial	Industry		\$9,550
Boyd, John	Eagle Pharmaceuticals, Inc.	EGL-6535-C-2202: A Randomized, Double-blind, Placebo-controlled, Multicenter Study to Evaluate the Efficacy and Safety of CAL02 Administered Intravenously in Addition to Standard of Care in Subjects with Severe Community-Acquired Pneumonia	Clinical Trial	Industry		\$20,725
Brunham, Liam	Canada Research Chairs	Precision Cardiovascular Disease Prevention	Salary	Government	Canada Research Chair Tier II (CIHR)	\$100,000
Brunham, Liam	CIHR	CETP inhibition as a novel treatment to remove pathogen lipids and improve survival in sepsis	Grant	Government	Project Grant	\$122,400

APPENDIX A EXTERNAL FUNDING (2024) CONT'D

Brunham, Liam	Novartis Pharmaceuticals Canada Inc.	<i>A randomized double-blind, placebo-controlled, multicenter trial assessing the impact of lipoprotein (a) lowering with TQJ230 on major cardiovascular events in patients with established cardiovascular disease (CVD) (HORIZON Phase III).</i>	Clinical Trial	Industry		\$48,352
Brunham, Liam	Novartis Pharmaceuticals Canada Inc.	<i>A randomized double-blind, placebo-controlled, multicenter trial assessing the impact of inclisiran on major adverse cardiovascular events in participants with established cardiovascular disease (VICTORION-2 PREVENT)</i>	Clinical Trial	Industry		\$8,858
Brunham, Liam (Deng, Eric Haoyu)	Michael Smith Health Research BC	<i>Cholesteryl ester transfer protein-mediated regulation of HDL cholesterol levels and clinical outcomes in sepsis</i>	Grant	Government	Post-Doctoral Fellowship	\$49,500
Brunham, Liam (Huang, Kate)	CIHR	<i>Investigating atrial fibrillation caused by titin variants using patient induced pluripotent stem cell-derived atrial cells</i>	Grant	Government	CIHR Doctoral Research Award	\$3,333
Brunham, Liam	NewAmsterdam Pharma B.V.	<i>Exploring the Effects of Obicetrapib in Relevant Mouse Models of Sepsis</i>	Contract	Industry		\$72,800
Brunham, Liam	Michael Smith Health Research BC	<i>Genetic Lipid Disorders and Premature Atherosclerotic Cardiovascular Disease: Raising Awareness to Save Lives</i>	Grant	Government	Reach Award	\$19,610
Brunham, Liam	Research Institute FH Canada Registry Project of McGill University Health Centre		Clinical Trial	Non-Profit		\$23,908
Camp, Pat	CIHR	<i>SPIRO: SPirometry for improved Indigenous and rural respiratory outcomes</i>	Grant	Government	THINC Implementation Science Teams Grants	\$399,992
Camp, Pat (Turner, Justin)	Brain Canada	<i>Garden of Resilience: Stories of Disruption and Adaptation during the 21st Century</i>	Grant	Non-Profit	Doctoral Personnel Awards for Indigenous Scholars	\$45,833
Camp, Pat	National Institutes of Health	<i>TB PuRe: Pulmonary rehabilitation to reduce post-tuberculosis morbidity</i>	Contract	Government		\$28,551
Carlsten, Christopher	Canada Foundation for Innovation	<i>CFI Infrastructure Operating Fund</i>	Grant	Government	Infrastructure Operating Fund	\$2,729
Carlsten, Christopher	Canada Research Chairs	<i>Occupational and Environmental Lung Disease</i>	Salary	Government	Canada Research Chair Tier II (CIHR)	\$50,000
Carlsten, Christopher	Canada Foundation for Innovation	<i>CFI Infrastructure Operating Fund</i>	Grant	Government	Infrastructure Operating Fund	\$6,987

Carlsten, Christopher	CIHR	<i>Implementing predictive analytics towards efficient COPD treatments (IMPACT)</i>	Grant	Government	Team Grant: Personalized Health	\$77,517
Carlsten, Christopher	VCHRI	<i>Discretionary Funds for Research Support -Legacy for Airway Health</i>	Grant	Non-Profit	Legacy Fund	\$50,000
Carlsten, Christopher	Environment and Climate Change Canada	<i>Urban freight system emissions: improved characterization for mitigation planning</i>	Contract	Government	Climate Action and Awareness Fund	\$34,944
Carlsten, Christopher	CIHR	<i>Traffic-related air pollution, inhaled corticosteroids and host defence response in COPD</i>	Grant	Government	Project Grant	\$179,316
Carlsten, Christopher	Hoffmann-La Roche Ltd.	<i>A Phase III, Randomized, Double-blind, Placebo-controlled, Multi-center Study to Evaluate the Efficacy and Safety of Astegolimab in Patients with Chronic Obstructive Pulmonary Disease</i>	Clinical Trial	Industry		\$28,084
Carlsten, Christopher	Hoffmann-La Roche Ltd. (Canada)	<i>A Phase IB, Multicenter, Randomized, Placebo-controlled, Double-blind Study to Evaluate the Safety, Pharmacokinetics and Pharmacodynamics of Selnoflast in Participants with Moderate to Severe Asthma</i>	Clinical Trial	Industry		\$41,966
Carlsten, Christopher	National Sanitarium Association	<i>Integrated Multi-modality Data for Personalized Respiratory Health in a Polluted Environment</i>	Grant	Non-Profit	NSA Innovative Research Program	\$204,900
Carlsten, Christopher	CIHR	<i>Lungs on Fire: Wildfire Smoke, Incident Diseases, Susceptible Populations, and Community Values in Canada</i>	Grant	Government	Team Grant: Lung Health	\$399,998
Carlsten, Christopher (Granville, Josh)	VCHRI	<i>Characterization of pro-inflammatory cytokines in broncho-alveolar lavage fluids after wildfire smoke exposure</i>	Grant	Non-Profit	Summer Program Advancing Research Knowledge & Skills	\$5,300
Carlsten, Christopher	Medical Research Council (UK)	<i>Mechanisms of Inflammatory Memory in the human respiratory Mucosa</i>	Contract	Government		\$32,562
Carlsten, Christopher (Yoon, Ho Jung)	CIHR	<i>The effects of diesel exhaust air pollution exposure on inhaled corticosteroid treatment in late-onset asthmatic patients</i>	Contract	Government	CANTRAIN - MSc/PhD	\$21,875
Carlsten, Christopher (Yoon, Ho Jung)	Michael Smith Health Research BC	<i>The effects of diesel exhaust air pollution exposure on inhaled corticosteroid treatment in late-onset asthmatic patients</i>	Contract	Government		\$17,500
DeMarco, Mari	National Institutes of Health	<i>A seamless phase 2A-B randomized double blind placebo controlled trial to evaluate the efficacy and safety of PQ 912 in patients with early Alzheimer's Disease</i>	Contract	Government	Research Project Grant (R01)	\$61,236

APPENDIX A EXTERNAL FUNDING (2024) CONT'D

DeMarco, Mari	Parkinson Switzerland	<i>Advancing Biomarker Diagnostics for Early Detection of Synucleinopathies</i>	Grant	Non-Profit		\$3,537
Dorscheid, Delbert	AstraZeneca Canada Inc.	<i>A Randomized, Double-Blind, Double Dummy, Parallel Group, Multicenter 24 to 52 Week Variable Length Study to Assess the Efficacy and Safety of Budesonide, Glycopyrronium, and Formoterol Fumarate Metered Dose Inhaler (MDI) Relative to Budesonide</i>	Clinical Trial	Industry		\$11,231
Dorscheid, Delbert	Regeneron Pharmaceuticals Inc.	<i>Registry of asthma patients initiating dupixent</i>	Clinical Trial	Industry		\$1,108
Dorscheid, Delbert	Sanofi-Aventis Canada Inc.	<i>A randomized, double-blind, placebo-controlled, parallel-group, 12 week Proof-of-Concept (PoC) study to assess the efficacy, safety, and tolerability of rilzabrutinib in participants with moderate-to-severe asthma who are not well controlled on inhaled corticosteroid (ICS) plus long-acting β_2 adrenergic agonist (LABA) therapy</i>	Clinical Trial	Industry		\$29,713
Dorscheid, Delbert	AstraZeneca Canada Inc.	<i>Tezepelumab Efficacy and Safety in Reducing Oral Corticosteroid Use in Adults with Oral Corticosteroid Dependent Asthma Study (SUNRISE)</i>	Clinical Trial	Industry		\$8,950
Dorscheid, Delbert	AstraZeneca Canada Inc.	<i>Asthma Control in Severe Asthma Patients Treated with Tezepelumab: a Prospective, Observational, Real-World Evidence Study</i>	Clinical Trial	Industry		\$21,036
Dorscheid, Delbert	C-POLAR Technologies	<i>Evaluate the C-POLAR Treated Cellulose+Polyester Material for Anti-viral Effect - Water and Air Models</i>	Contract	Industry		\$51,573
Eddy, Rachel	BC Children's Hospital Research Institute	<i>Quantitative pulmonary imaging to evaluate pediatric lung structure-function</i>	Grant	Non-Profit	Establishment Award	\$150,000
Eddy, Rachel	St. Paul's Foundation	<i>Data Sciences in Functional MRI Analytics</i>	Grant	Non-Profit		\$300,000
Francis, Gordon A.	Michael Smith Health Research BC	<i>Redefining atherosclerosis: Characterizing and targeting smooth muscle cell foam cells for the treatment and prevention of coronary heart disease and stroke</i>	Salary	Government	Health Professional-Investigator Award	\$67,500
Francis, Gordon A.	CIHR	<i>The importance of smooth muscle foam cells in atherosclerosis development and treatment</i>	Grant	Government	Project Grant	\$134,921
Francis, Gordon A.	Ultragenyx Pharmaceutical Inc.	<i>Speaker Services re: Treatment of Homozygous FH.</i>	Grant	Industry		\$2,375

Francis, Gordon A.	CIHR	<i>Arterial smooth muscle cell lysosomal acid lipase as a novel target for atherosclerosis treatment and prevention</i>	Grant	Government	Project Grant	\$113,316
Granville, David	CIHR	<i>Advanced biomatrices and drug repurposing: novel approaches for impaired wound healing</i>	Grant	Government	Project Grant	\$178,819
Granville, David	AbCellera Biologics Inc.	<i>AbCellera Rodent Immunizations</i>	Contract	Industry		\$330,939
Granville, David	CIHR	<i>Novel mechanisms and therapeutic approach for aging-related pruritus</i>	Grant	Government	Project Grant	\$174,420
Granville, David	Andira Medicine Inc.	<i>Anti-Microbial, Physical Property and Cytotoxicity Investigation of Drug Loaded Polyvinyl Alcohol Films for Wound Care</i>	Contract	Industry		\$139,263
Granville, David	Innovation, Science and Economic Development Canada	<i>Leadership & Operational Support for Praxis' Cure & Care Programs</i>	Contract	Government		\$199,665
Granville, David (Aubert, Alexandre)	Arthritis Society	<i>Granzyme B as a potential therapeutic target for rheumatoid arthritis</i>	Grant	Non-Profit	Training Post-Doctoral Fellowship (TPF)	\$20,000
Granville, David	viDA Therapeutics Inc.	<i>Investigating Novel Natural Inhibitors of Granzyme B Proteolytic Activity</i>	Contract	Industry		\$7,000
Granville, David	Rick Hansen Foundation	<i>Developing topical formulations of natural, plant-derived Granzyme B inhibitors for the treatment of pressure injuries</i>	Contract	Non-Profit		\$20,000
Guenette, Jordan A. (Milne, Kathryn)	Michael Smith Health Research BC	<i>Investigating sex differences in dyspnea across the spectrum of chronic obstructive pulmonary disease severity</i>	Grant	Government	Research Trainee Award: Post-Doctoral Fellowship	\$49,500
Guenette, Jordan A.	CIHR	<i>Physiological and morphological mechanisms of increased dyspnea in females with COPD</i>	Grant	Government	Project Grant	\$198,135
Guenette, Jordan A.	CIHR	<i>Inspiratory Muscle Training in Lung Transplant Candidates and Implications on Early Post-Transplant Outcomes: A Pilot and Feasibility Randomized Clinical Trial</i>	Government	Clinical Trial	Randomized Controlled Trials	\$15,500
Guenette, Jordan A.	CIHR	<i>Inspiratory Muscle Training in Lung Transplant Candidates and Implications on Early Post-Transplant Outcomes: A Pilot and Feasibility Randomized Clinical Trial</i>	Government	Clinical Trial	Randomized Controlled Trials	\$15,500
Guenette, Jordan A. (Hind, Alanna)	British Columbia Lung Foundation	<i>Physiological, sensory and ergogenic effects of salbutamol implications for athletic screening and β_2 agonist use in sport</i>	Grant	Non-Profit	Respiratory Rehabilitation Fellowship	\$12,500

APPENDIX A EXTERNAL FUNDING (2024) CONT'D

Guenette, Jordan A.	NSERC	<i>Physiological basis for sex differences in dyspnea in healthy humans under conditions of increased physiological stress</i>	Grant	Government	Discovery Grants Program - Individual	\$47,000
Guenette, Jordan A.	MITACS Inc.	<i>The effects of isocapnic respiratory muscle endurance training on the multidimensional components and neurophysiological mechanisms of exertional breathlessness in healthy adults</i>	Grant	Non-Profit	Accelerate	\$15,000
Hacihaliloglu, Ilker	MITACS Inc.	<i>Point of care ultrasound for lung and heart disease risk assessment</i>	Grant	Non-Profit	Accelerate	\$30,000
Hacihaliloglu, Ilker (Salmanpourpaenafrak, Mohammadreza)	MITACS Inc.	<i>Application of deep learning generative network algorithms linked with super-resolution methods and fusion techniques to improve the quality of noisy and unlabeled ultrasound images</i>	Grant	Non-Profit	Accelerate	\$40,000
Hacihaliloglu, Ilker	NSERC	<i>On-Device continual learning methods for point of care ultrasound</i>	Grant	Government	Discovery Grants Program - Individual	\$42,000
Hackett, Tillie Louise	Canada Research Chairs	<i>Asthma and chronic obstructive pulmonary disease pathobiology and therapeutics</i>	Salary	Government	Canada Research Chair Tier I (CIHR)	\$200,000
Hackett, Tillie Louise	CIHR	<i>The contribution of sex differences to small airways disease in chronic obstructive pulmonary disease</i>	Grant	Government	Project Grant	\$109,586
Hackett, Tillie Louise	National Institutes of Health	<i>Exploring the biology of persistent type 2 airway niches in asthma</i>	Contract	Government	Research Grant	\$13,169
Hackett, Tillie Louise (Goobie, Gillian)	Michael Smith Health Research BC	<i>Air pollution as a modulator of molecular, structural, and clinical outcomes in patients with fibrotic interstitial lung disease</i>	Grant	Government	Research Trainee Award: Post-Doctoral Fellowship	\$7,000
Hackett, Tillie Louise	National Institutes of Health	<i>Immune-driven airway epithelial dysfunction in micro-obstructive asthma</i>	Contract	Government	Research Grant	\$129,234
Hackett, Tillie Louise (Hsieh, Aileen)	CIHR	<i>The Role of Small Airways Disease Heterogeneity in Asthma</i>	Grant	Government	Canada Graduate Scholarships Doctoral Award	\$78,333
Hackett, Tillie Louise	CIHR	<i>Integration of multi-resolution imaging to improve the diagnosis and treatment of fibrotic interstitial lung diseases</i>	Grant	Government	Project Grant	\$235,174
Hackett, Tillie Louise (Abbasidezfouli, Samin)	Canadian Lung Association	<i>Cartilage-associated protein (CRTAP) as an environmentally sensitive target in idiopathic pulmonary fibrosis</i>	Grant	Non-Profit	CLA Studentship Award	\$4,250
Hackett, Tillie Louise (Kohlen, Brandon)	St. Paul's Foundation	<i>Biomolecular Pathways In Scleroderma COF #SPF2-27</i>	Grant	Non-Profit		\$32,500
Koelwyn, Graeme	NSERC	<i>Monocyte adaptations to chronic exercise stress</i>	Grant	Government	Discovery Grant	\$42,500

Koelwyn, Graeme	St. Paul's Foundation		Clinical Trial	Non-Profit	Precision Research Exercise Fund	\$109,658
Koelwyn, Graeme	Canada Research Chairs	<i>Public Health Omics in Exercise and Disease</i>	Salary	Government	Canada Research Chair Tier II (CIHR)	\$120,000
Koelwyn, Graeme	CFI	<i>Cardiovascular disease and its comorbidities: identifying the regulators of cross-disease communication</i>	Grant	Government		\$60,000
Krahn, Andrew D.	CIHR	<i>Hearts in Rhythm Organization (HiRO): Improving detection and treatment of inherited heart rhythm disorders to prevent sudden death</i>	Grant	Government	Foundation Grant -Stage 2	\$584,932
Krahn, Andrew D.	Cardurion Pharmaceuticals	<i>A Phase 2, Double-Blind, Placebo-Controlled Clinical Study to Evaluate the Safety, Tolerability, Pharmacokinetics, and Pharmacodynamics of CRD-4730 in Participants with Catecholaminergic Polymorphic Ventricular Tachycardia</i>	Clinical Trial	Industry		\$30,239
Laksman, Zachary	Canada Foundation for Innovation	<i>High throughput high content electrophysiologic imaging of human induced pluripotent stem cell derived cardiomyocytes</i>	Grant	Government	US Matching Funds	\$57,418
Laksman, Zachary	Canada Foundation for Innovation	<i>CFI Infrastructure Operating Fund</i>	Grant	Government	Infrastructure Operating Fund	\$5,826
Laksman, Zachary	CIHR	<i>Complex Genetics of Hypertrophic Cardiomyopathy: Towards an Integration of Polygenic Risk in Clinical Care</i>	Clinical Trial	Government	Randomized Controlled Trials	\$27,700
Laksman, Zachary	Stem Cell Network	<i>Development of high-throughput assays to stratify cardiotoxic drug risk by sex and genotype</i>	Grant	Non-Profit	Impact Award	\$141,998
Laksman, Zachary	MyoKardia, Inc.	<i>A Randomized, Double-blind, Placebo-controlled Clinical Study to Evaluate Mavacamten in Adults with Symptomatic Non-Obstructive Hypertrophic Cardiomyopathy</i>	Clinical Trial	Industry		\$35,908
Laksman, Zachary	CIHR	<i>Personalized drug safety and targeted drug therapies for individuals with truncating titin variants</i>	Grant	Government	Project Grant	\$224,910
Laksman, Zachary	CIHR	<i>Identifying altered gene regulatory network states and underlying mechanisms in atrial fibrillation, a model polygenic disease</i>	Grant	Government	Project Grant	\$54,422
Leipsic, Jonathon	Canada Research Chairs	<i>Advanced Cardiopulmonary Imaging</i>	Salary	Government	Canada Research Chair Tier II (CIHR)	\$25,000
Leipsic, Jonathon	Medtronic Inc.	<i>Transcatheter Mitral Valve Replacement with the Medtronic Intrepid TMVR System in Patients with Severe Symptomatic Mitral Regurgitation APOLLO Trial</i>	Contract	Industry		\$142,943

APPENDIX A EXTERNAL FUNDING (2024) CONT'D

Leung, Janice	CIHR	<i>Canadian users of cannabis smoke study (CANUCKs): Impact on lung health via clinical, imaging, and biologic measures</i>	Grant	Government	Team Grant: Cannabis Research in Priority Areas	\$224,929
Leung, Janice	Canada Research Chairs	<i>Translational airway biology</i>	Salary	Government	Canada Research Chair Tier II (CIHR)	\$100,000
Leung, Janice	Canada Research Chairs	<i>Stipend for first term Tier 2 CRC</i>	Salary	Government	Canada Research Chair Tier II (CIHR)	\$20,000
Leung, Janice	St. Paul's Foundation	<i>HLI contribution to start-up funds</i>	Grant	Non-Profit		\$30,000
Leung, Janice (Espin, Estefania)	MITACS Inc.	<i>Understanding diverse COVID-19 outcomes at the cellular and molecular level</i>	Grant	Non-Profit	Accelerate	\$15,000
Leung, Janice (Hernandez Cordero, Ana Isabel)	CIHR	<i>Epigenetic and molecular regulation of aging and age-related comorbidities</i>	Grant	Government	Research Excellence, Diversity, and Independence (REDI) Early Career Transition Award	\$70,000
Leung, Janice (Hernandez Cordero, Ana Isabel)	CIHR	<i>Epigenetic and molecular regulation of aging and age-related comorbidities</i>	Grant	Government	Research Excellence, Diversity, and Independence (REDI) Early Career Transition Award	\$20,000
Leung, Janice	CIHR	<i>Accelerated lung aging in people living with human immunodeficiency virus</i>	Grant	Government	Project Grant	\$258,570
Leung, Janice	CIHR	<i>The Canadian Lung Outcomes in Users of Vaping Devices (CLOUD) Study</i>	Grant	Government	Team Grant: Lung Health	\$160,000
Leung, Janice	Canadian Cancer Society	<i>The Canadian Lung Outcomes in Users of Vaping Devices (CLOUD) Study</i>	Grant	Non-Profit		\$199,964
Leung, Janice	Heart and Stroke Foundation of Canada	<i>The Canadian Lung Outcomes in Users of Vaping Devices (CLOUD) Study</i>	Grant	Non-Profit		\$39,963
Leung, Janice (Gilchrist, Cassandra)	Canadian Lung Association	<i>Exploring the Impact of Cannabis Smoke Exposure on Lung Health with Single Cell RNA Sequencing and Microbiome Analysis</i>	Grant	Non-Profit	CLA Studentship Award	\$5,250
Leung, Janice (Espin, Estefania)	MITACS Inc.	<i>Developing and Validating long-COVID biomarkers in a Pan-Canadian cohort</i>	Grant	Non-Profit	Accelerate	\$15,000

Luo, Honglin	CIHR	<i>Enterovirus subversion of the autophagy pathway</i>	Grant	Government	Project Grant	\$146,880
Luo, Honglin	NSERC	<i>Autophagy mechanism of coronaviral infection: Lessons from enteroviruses</i>	Grant	Government	Discovery Grants Program - Individual	\$40,000
Luo, Honglin (Mohamud, Yasir)	Michael Smith Health Research BC	<i>Innate mechanisms of viral myocarditis: Role of the cytosolic DNA-sensing pathway</i>	Grant	Government	Research Trainee Award: Post-Doctoral Fellowship	\$4,375
Luo, Honglin	CIHR	<i>Innate immune mechanisms of viral myocarditis: Role of the cytosolic DNA-sensing pathway</i>	Grant	Government	Project Grant	\$182,070
Luo, Honglin (Mohamud, Yasir)	CIHR	<i>Elucidating the intricate interplay between mitochondria, innate immunity, and viral pathogenesis in heart failure</i>	Grant	Government	Research Excellence, Diversity, and Independence (REDI) Early Career Transition Award	\$70,000
Luo, Honglin (Mohamud, Yasir)	CIHR	<i>Elucidating the intricate interplay between mitochondria, innate immunity, and viral pathogenesis in heart failure</i>	Grant	Government	CIHR Research Excellence, Diversity, and Independence (REDI) Early Career Transition Award	\$20,000
McNaghy, Kelly	CIHR	<i>Maternal exposures during pregnancy as drivers of susceptibility to allergic asthma and Th2 inflammation</i>	Grant	Government	Project Grant	\$237,150
McNaghy, Kelly	CIHR	<i>Causational roles of the gut microbiome in childhood asthma: leveraging the CHILD cohort study</i>	Grant	Government	Team Grant: Canadian Microbiome Initiative 2: A Focus on Function and Translation Research Teams	\$24,000
McNaghy, Kelly (Brassard, Julianne)	Michael Smith Health Research BC	<i>The influence of podocalyxin expression on immune response to ovarian cancer and the efficacy of an antibody-drug conjugate in immunotherapy</i>	Grant	Government	Research Trainee Award: Post-Doctoral Fellowship	\$45,375
McNaghy, Kelly	CIHR	<i>Development and functional diversity of innate lymphoid cells</i>	Grant	Government	Project Grant	\$186,035
McNaghy, Kelly (Kabil, Ahmed)	CIHR	<i>Development and functional diversity of innate lymphoid cells</i>	Grant	Government	Vanier Canada Graduate Scholarship	\$100,000
McNaghy, Kelly (Chopra, Sameeksha (Maggie))	CIHR	<i>Deep Immunophenotyping of the Immune Response in Interstitial Lung Disease: Developing a Cellular and Protein Biomarker Discovery Pipeline for Idiopathic Pulmonary Fibrosis</i>	Grant	Government	Vanier Canada Graduate Scholarship	\$100,000

APPENDIX A EXTERNAL FUNDING (2024) CONT'D

McNagny, Kelly	Terry Fox Research Institute	<i>p53abn endometrial carcinomas: targeted therapeutics for the most aggressive subtype</i>	Contract	Non-Profit	The Terry Fox New Frontiers Program Project Grant	\$147,750
McNagny, Kelly	Cancer Research Society	<i>Targeting podocalyxin for the treatment of adverse-risk acute myeloid leukemia (AML)</i>	Contract	Non-Profit	Operating Grant	\$32,500
McNagny, Kelly	Cancer Research Society	<i>Targeting podocalyxin for the treatment of adverse-risk acute myeloid leukemia (AML)</i>	Contract	Non-Profit	Operating Grant	\$32,500
McNagny, Kelly	CIHR	<i>Neonatal ILC sculpt long-term adult immune response</i>	Grant	Government	Project Grant	\$103,275
McNagny, Kelly (Kajabadi, Nasim Sadat)	MITACS Inc.	<i>Bone targeted EP4 Agonist as muscle anabolics In muscular dystrophy</i>	Grant	Non-Profit	Elevate Postdoctoral Fellowship Program	\$60,000
McNagny, Kelly	Canada Biomedical Research Fund	<i>AVENGER: Advanced LNP RNA Vaccines Engineered with Next-Generation designs to Enhance pandemic Readiness (Master)</i>	Grant	Government		\$167,600
McNagny, Kelly (Nayyar, Natalia)	Stem Cell Network	<i>Type 2 and type 3 innate signals regulate myelopoiesis by modulating myeloid-biased progenitors in response to different environmental stimuli</i>	Grant	Non-Profit	Stem Cell Network Summer Studentships	\$5,000
McNagny, Kelly	Michael Smith Health Research BC	<i>Regulating A Tumor-Specific Cell Surface Glycopeptide Epitope For Precision Immuno-Oncology</i>	Grant	Government	GlycoNet Collaborative Team Grants	\$20,000
McNagny, Kelly	Canadian Glycomics Network (GlycoNet)	<i>Optimization of a tumor-specific antibody for the treatment of cancer</i>	Contract	Government	Strategic Initiatives	\$150,000
Quon, Bradley S.	Canada Foundation for Innovation	<i>CFI Infrastructure Operating Fund</i>	Grant	Government	Infrastructure Operating Fund	\$6,822
Quon, Bradley S.	Cystic Fibrosis Foundation (US)	<i>COVID-19 Antibody Responses in Cystic Fibrosis Patients: CAR-CF Study</i>	Clinical Trial	Non-Profit	Research Grant	\$17,368
Quon, Bradley S.	Cystic Fibrosis Canada	<i>Inflammatory and immune biomarkers of response to elexacaftor/tezacaftor/ivacaftor in people with CF</i>	Grant	Non-Profit	Basic and Clinical Research Grants	\$99,700
Quon, Bradley S. (Potter, Naomi)	MITACS Inc.	<i>Model systems to Assess The in vitro efficacy of CFTR modulator therapies in Cystic Fibrosis (MATCH-CF)</i>	Grant	Non-Profit	Accelerate	\$20,000

Quon, Bradley S. (Potter, Naomi)	CIHR	<i>Patient-derived model systems to assess the in vitro efficacy of cystic fibrosis transmembrane conductance regulator (CFTR) modulator therapies in cystic fibrosis</i>	Grant	Government	Canada Graduate Scholarships - Doctoral Award	\$3,333
Quon, Bradley S.	Cystic Fibrosis Canada	<i>Multi-site Collaboration to Validate Use of Patient-derived Nasal Cultures for Expanding Access to CFTR Modulators</i>	Clinical Trial	Non-Profit	Research and Clinical Grants	\$36,000
Quon, Bradley S.	Vertex Pharmaceuticals (Canada) Inc.	<i>A Longitudinal Study on the Impact of ELX/TEZ/IVA Treatment in Patients With Cystic Fibrosis in the Real World</i>	Clinical Trial	Industry		\$9,606
Quon, Bradley S.	Vertex Pharmaceuticals (Canada) Inc.	<i>A Phase 3, Open-label Study Evaluating the Longterm Safety and Efficacy of VX-121 Combination Therapy in Subjects With Cystic Fibrosis</i>	Clinical Trial	Industry		\$53,938
Quon, Bradley S.	Vertex Pharmaceuticals (Canada) Inc.	<i>A Phase 3 Open-label Study Evaluating the Long-term Safety and Efficacy of Elexacaftor/Tezacaftor/Ivacaftor in Cystic Fibrosis Subjects With Non-F508del CFTR Genotypes</i>	Clinical Trial	Industry		\$100,485
Quon, Bradley S.	British Columbia Lung Foundation	<i>The real-world impact of elexacaftor/tezacaftor/vacaftor on prescribing patients, clinical outcomes, and health care utilization for people with cystic fibrosis living in British Columbia</i>	Grant	Non-Profit	Lung Health Research Grant	\$50,000
Quon, Bradley S. (Matta, Jasleen kaur)	MITACS Inc.	<i>Biological clustering of pulmonary exacerbations in CF (BIOPEX-CF)</i>	Grant	Non-Profit	Accelerate	\$30,000
Quon, Bradley S. (Jafari, Mehdi)	CIHR	<i>The real-world impact of ETI on prescribing patterns, clinical outcomes, and healthcare utilization for PwCF living in British Columbia</i>	Grant	Government	Health System Impact Fellowships	\$5,000
Quon, Bradley S.	Cystic Fibrosis Canada	<i>Group adaptation of CF-CBT: Evaluation of Effectiveness and Participant Experience</i>	Clinical Trial	Non-Profit		\$3,653
Russell, James A.	Canada Biomedical Research Fund	<i>AVENGER: Advanced LNP RNA Vaccines Engineered with Next-Generation designs to Enhance pandemic Readiness (Master)</i>	Grant	Government		\$556,933
Russell, James A.	Genome British Columbia	<i>AVENGER: Advanced LNP RNA Vaccines Engineered with Next-Generation Designs to Enhance Pandemic Readiness (B31AVG)</i>	Contract	Non-Profit		\$262,700
Ryerson, Chris	Boehringer Ingelheim (Canada) Ltd.	<i>The Canadian Cohort for Pulmonary Fibrosis</i>	Clinical Trial	Industry		\$945,600

APPENDIX A EXTERNAL FUNDING (2024) CONT'D

Ryerson, Chris	Michael Smith Health Research BC	<i>Clinical, biological, and prognostic impact of supplemental oxygen in fibrotic interstitial lung disease</i>	Salary	Government	Health Professional-Investigator Award	\$37,500
Ryerson, Chris (Goobie, Gillian)	CIHR	<i>Air pollution as a modulator of molecular, structural, and clinical outcomes in patients with fibrotic interstitial lung disease</i>	Grant	Government	CIHR Fellowship	\$118,333
Ryerson, Chris (Goobie, Gillian)	CIHR	<i>Air pollution as a modulator of molecular, structural, and clinical outcomes in patients with fibrotic interstitial lung disease</i>	Grant	Government	CIHR Fellowship	\$5,000
Ryerson, Chris (Marinescu, Daniel)	Michael Smith Health Research BC	<i>The association of genetic risk factors with morphology and outcomes in interstitial lung disease</i>	Grant	Government	Research Trainee Award: Post-Doctoral Fellowship	\$49,500
Ryerson, Chris	Boehringer Ingelheim (Canada) Ltd.	<i>A double blind, randomized, placebo-controlled trial evaluating the efficacy and safety of BI 1015550 over at least 52 weeks in patients with Progressive Fibrosing Interstitial Lung Diseases (PF-ILDs)</i>	Clinical Trial	Industry		\$3,651
Ryerson, Chris	Boehringer Ingelheim (Canada) Ltd.	<i>A double blind, randomized, placebo-controlled trial evaluating the efficacy and safety of BI 1015550 over at least 52 weeks in patients with Idiopathic Pulmonary Fibrosis (IPF)</i>	Clinical Trial	Industry		\$24,277
Ryerson, Chris	National Institutes of Health	<i>Prognostic biomarker development in progressive fibrosing interstitial lung disease</i>	Contract	Government	Research Grant	\$12,418
Ryerson, Chris	United Therapeutics Corp.	<i>A Randomized, Double-blind, Placebo-controlled, Phase 3 Study of the Efficacy and Safety of Inhaled Treprostinil in Subjects with Idiopathic Pulmonary Fibrosis</i>	Clinical Trial	Industry		\$111,094
Ryerson, Chris	Trevi Therapeutics, Inc.	<i>A Randomized, Double-Blind, Placebo-Controlled, Parallel, 4-Arm Dose Ranging Study of the Safety and Efficacy of Nalbuphine Extended-Release Tablets (NAL ER) for the Treatment of Cough in Idiopathic Pulmonary Fibrosis (IPF)</i>	Clinical Trial	Industry		\$20,917
Ryerson, Chris	Bristol-Myers Squibb Co. (Canada)	<i>Safety and Effectiveness of Balloon-Expandable Bioprosthetic SAPIEN X4 Transcatheter Heart Valve in Failing Aortic Bioprosthetic Valves. The ALLIANCE AVIV Trial</i>	Clinical Trial	Industry		\$19,085
Ryerson, Chris	Pliant Therapeutics Inc.	<i>A randomized, double-blind, dose-ranging, placebo-controlled study to evaluate the efficacy and safety of PLN-74809 (bexotegast) for the treatment of idiopathic pulmonary fibrosis (BEACON)</i>	Clinical Trial	Industry		\$23,620

Ryerson, Chris	United Therapeutics Corp.	<i>A Randomized, Double-blind, Placebo-controlled, Multinational, Phase 3 Study of the Efficacy and Safety of Inhaled Treprostinil in Subjects with Progressive Pulmonary Fibrosis (TETON-PPF)</i>	Clinical Trial	Industry		\$20,462
Ryerson, Chris	Boehringer Ingelheim (Canada) Ltd.	<i>Protocol #1305-0031: An open-label extension trial of the long-term safety and efficacy of BI 1015550 taken orally in patients with idiopathic pulmonary fibrosis (IPF) and progressive pulmonary fibrosis (PPF) (FIBRONEER-ON)</i>	Clinical Trial	Industry		\$22,057
Ryerson, Chris	Bristol-Myers Squibb (US)	<i>A Multicenter, Randomized, Double-blind, Placebo-controlled, Phase 3 Study to Evaluate the Efficacy, Safety, and Tolerability of BMS-986278 in Participants with Progressive Pulmonary Fibrosis</i>	Clinical Trial	Industry		\$5,000
Ryerson, Chris	Health Canada	<i>CARE-PF: Setting patient-informed priorities and processes that reach all Canadians with pulmonary fibrosis</i>	Contract	Government		\$129,263
Ryerson, Chris	Health Canada	<i>CARE-PF: Setting patient-informed priorities and processes that reach all Canadians with pulmonary fibrosis</i>	Contract	Government		\$43,088
Ryerson, Chris	Boehringer Ingelheim (Canada) Ltd.	<i>Phase IIa/IIb, randomised, double blind, placebo-controlled, parallel-group dose-finding study to examine the efficacy and safety of BI 1839100 administered orally over a 12-week treatment period in patients with idiopathic pulmonary fibrosis</i>	Clinical Trial	Industry		\$23,260
Ryerson, Chris	Endeavour Biomedicines, Inc.	<i>A Phase 2, Multi-Center, Randomized, Double-Blind, Controlled Trial Evaluating the Safety and Efficacy of ENV-101 in Patients with Lung Fibrosis (WHISTLE-PF Trial)</i>	Clinical Trial	Industry		\$5,000
Sandford, Andrew J.	British Columbia Lung Foundation	<i>Identifying functional genetic variants associated with susceptibility to COPD</i>	Grant	Non-Profit	Lung Health Research Grant	\$50,000
Sellers, Stephanie	PHCRI	<i>Understanding of BPHV use, define features of BPHV level, and begin to develop new imaging approaches for detecting valve degeneration and identifying therapeutic targets to improve valve durability</i>	Salary	Non-Profit	Early Career Investigator Award	\$25,020
Sellers, Stephanie	Michael Smith Health Research BC	<i>Valvular heart disease and bioprosthetic heart valves: defining mechanisms of degeneration and therapeutic discovery from bedside to bench</i>	Salary	Government	Scholar Award	\$45,000
Sellers, Stephanie	National Institutes of Health	<i>Patient-specific blood cell reactivity and flow dynamic profiles in transcatheter aortic valve replacement</i>	Contract	Government	Research Grant	\$65,078

APPENDIX A EXTERNAL FUNDING (2024) CONT'D

Sellers, Stephanie (Gill, Hacina)	CIHR	<i>Investigation of fibrosis-mediated structural valve degeneration: unveiling the nature of bioprosthetic heart valve fibrosis and its contribution to bioprosthetic heart valve failure</i>	Grant	Government Graduate Scholarships - Doctoral Award	Canada	\$78,333
Seow, Chun	CIHR	<i>Mechanisms underlying the bronchodilatory effect of deep inspiration in health and asthma: from airway smooth muscle to the whole lung</i>	Grant	Government	Project Grant	\$136,170
Sin, Don	Canada Research Chairs	<i>Chronic obstructive pulmonary disease</i>	Salary	Government Research Chair Tier I (CIHR)	Canada	\$200,000
Sin, Don	Canada Foundation for Innovation	<i>CFI Infrastructure Operating Fund</i>	Grant	Government	Infrastructure Operating Fund	\$139,000
Sin, Don (Vosoogh gerayeli, Firoozeh)	MITACS Inc.	<i>Platform development to assay immune cell chemotaxis in chronic obstructive pulmonary disease (COPD)</i>	Grant	Non-Profit	Accelerate	\$31,667
Sin, Don	Sanofi-Aventis Canada Inc.	<i>A randomized, double-blind, placebo-controlled, parallel-group, 52-week pivotal study to assess the efficacy, safety, and tolerability of dupilumab in patients with moderate-to-severe chronic obstructive pulmonary disease (COPD) with Type 2</i>	Clinical Trial	Industry		\$15,929
Sin, Don	Canada Foundation for Innovation	<i>CFI Infrastructure Operating Fund</i>	Grant	Government	Infrastructure Operating Fund	\$8,780
Sin, Don	CIHR	<i>A novel approach to discover therapeutic and biomarker targets and enable precision health in COPD: TORCH (Towards Omics and Imaging to Revolutionize COPD Health)</i>	Grant	Government	Project Grant	\$190,485
Sin, Don (Guinto, Elizabeth)	MITACS Inc.	<i>Cellular phenotyping chronic obstructive pulmonary disease from microbes to epithelial and macrophages</i>	Grant	Non-Profit	Accelerate	\$60,000
Sin, Don	MITACS Inc.	<i>A Novel Radiofrequency Treatment for Emphysema in Pig Model</i>	Grant	Non-Profit	Accelerate	\$30,000
Sin, Don (Leung, Clarus)	Michael Smith Health Research BC	<i>Endo-phenotyping of asthma and chronic obstructive pulmonary disease overlap by airway inflammation and structure</i>	Grant	Government	Research Trainee Award: Post-Doctoral Fellowship	\$53,667
Sin, Don (Leung, Clarus)	The Lung Association	<i>Endo-phenotyping of asthma and chronic obstructive pulmonary (COPD) overlap by airway inflammation</i>	Grant	Non-Profit	Breathing as One: Allied Health Fellowship	\$16,500
Sin, Don	NI ONE INC.	<i>Effects of TSLP Inhibition on the Air-liquid Interface Model of the Epithelial Airway in COPD</i>	Contract	Industry		\$67,935

Singh, Amritpal (Ahmadzadeh, Maryam)	MITACS Inc.	<i>Integrating digital pathology with electronic health records for predicting outcomes in heart transplantation</i>	Grant	Non-Profit	Elevate Postdoctoral Fellowship Program	\$80,000
Singh, Amritpal	NSERC	<i>Integrative methods for single cell multiomics</i>	Grant	Government	Discovery Grants Program - Individual	\$33,000
Singh, Amritpal (Liang, Chunqing)	NSERC	<i>Novel bioinformatics approaches for multiomics data</i>	Grant	Government	Alliance-Mitacs Accelerate	\$60,000
Singh, Amritpal (Liang, Chunqing)	MITACS Inc.	<i>Novel bioinformatics approaches for multiomics data</i>	Grant	Non-Profit	Accelerate	\$60,000
Singh, Amritpal	Canadian Cardiovascular Society	<i>A multimodal approach to risk stratification in hypertrophic cardiomyopathy</i>	Grant	Non-Profit		\$55,000
Tebbutt, Scott	National Institutes of Health	<i>Immune development in early life (IDEAL) shapes vaccine response, respiratory infectious disease, and asthma</i>	Grant	Government	Research Grant	\$5,310
Tebbutt, Scott	Leducq Foundation	<i>Acute rheumatic fever diagnosis collaborative network (ARC Network)</i>	Contract	Non-Profit	Transatlantic Network of Excellence	\$110,802
Tebbutt, Scott (Lapp, Linda)	Michael Smith Health Research BC	<i>Identification of biomarker signatures predicting short and long term complications following heart transplant surgery</i>	Grant	Government	Research Trainee Award: Post-Doctoral Fellowship	\$26,875
Tebbutt, Scott	CIHR	<i>Advancing Long-COVID biomarker development in Canada: integrating transcriptomics and stakeholder perspectives</i>	Contract	Government	Long COVID Web: Pan-Canadian Post-COVID Condition Research Network	\$50,000
Thamboo, Andrew (Behroozian, Shekooh)	MITACS Inc.	<i>Developing a surrogate marker to asthmatic tissue: the nasal cavity</i>	Grant	Non-Profit	Accelerate	\$15,000
Thamboo, Andrew	AstraZeneca Canada Inc.	<i>A Multicentre, Randomised, Double-Blind, Parallel-Group, Placebo-Controlled Phase 3 Efficacy and Safety Study of Tezepelumab in Participants with Severe Chronic Rhinosinusitis with Nasal Polyposis</i>	Clinical Trial	Industry		\$1,500
Thamboo, Andrew (Behroozian, Shekooh)	Michael Smith Health Research BC	<i>Evaluating the prevalence of olfaction and chronic rhinosinusitis in people with cystic fibrosis on Trikafta and assessing the impact of nasal steroids intervention</i>	Grant	Government	Research Trainee Award: Post-Doctoral Fellowship	\$24,750
Thamboo, Andrew (Behroozian, Shekooh)	Cystic Fibrosis Canada	<i>Evaluating the prevalence of olfaction and chronic rhinosinusitis in people with cystic fibrosis on Trikafta and assessing the impact of nasal steroids intervention</i>	Grant	Non-Profit		\$34,994

APPENDIX A EXTERNAL FUNDING (2024) CONT'D

Walley, Keith	CIHR	<i>Translational research to improve sepsis outcomes</i>	Grant	Government	Foundation Grant -Stage 2	\$76,106
Wang, Ying	Heart and Stroke Foundation of Canada	<i>Targeting efferocytosis to reduce risk of cardiovascular events</i>	Salary	Non-Profit	New Investigator Award	\$60,000
Wang, Ying	CIHR	<i>Targeting efferocytosis to reduce risk of cardiovascular events</i>	Grant	Government	Project Grant	\$163,710
Wang, Ying	Michael Smith Health Research BC	<i>Targeting efferocytosis to reduce risk of cardiovascular event</i>	Salary	Government	Scholar Award	\$30,000
Wang, Ying	GlaxoSmithKline (Canada) Inc.	GOTNIRA409_VC	Clinical Trial	Industry		\$9,645
Wang, Ying	Canada Foundation for Innovation	<i>CFI Infrastructure Operating Fund</i>	Grant	Government	Infrastructure Operating Fund	\$6,140
Wang, Ying	Canadian Lipoprotein Conference	<i>Characterizing local inflammation targeted by colchicine in patients with coronary artery disease</i>	Salary	Non-Profit	CLVS Stewart Whitman New Investigator Award	\$10,000
Wang, Ying	Heart and Stroke Foundation of Canada	<i>Characterizing the inflammatory pathways targeted by colchicine to better repurpose drugs for coronary artery disease</i>	Grant	Non-Profit	Grant-in-Aid	\$100,000
Wang, Ying	NSERC	<i>Cell-cell and cell-microenvironment interactions maintain tissue homeostasis of the cardiovascular system</i>	Grant	Government	Discovery Grants Program - Individual	\$38,000
Wang, Ying	NSERC	<i>Cell-cell and cell-microenvironment interactions maintain tissue homeostasis of the cardiovascular system</i>	Grant	Government	Discovery Grants Program - Discovery Launch Supplement	\$12,500
Wang, Ying (Cheng, Wan hei)	MITACS Inc.	<i>Finding blood biomarkers to inform local inflammation in coronary artery disease</i>	Grant	Non-Profit	Accelerate	\$60,000
Wang, Ying	NSERC	<i>Urgent replacement of an incompatible microscope for multiplex imaging</i>	Grant	Government	Research Tools and Instruments	\$150,000
Yang, Decheng	CIHR	<i>Role of transcription factor NFAT5 in viral myocarditis: a novel strategy for therapy</i>	Grant	Government	Project Grant	\$120,870

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